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SPROCKET & GEAR, INC.

For more than six decades Martin has maintained a leadership position in the Power Transmission Industry. Martin is continously raising the bar in manufacturing excellence and customer service, ever updating and increasing the product line.

From humble beginings making sprockets to vast inventories and broad based products line, the breadth and depth no other single manufacturer can offer. Martin proudly makes available this latest and most complete catalog of Power Transmission, Bulk Material Handling products and Industrial Hand Tools.

This latest edition includes the newest product categories — Heavy Duty Conveyor Pulleys and Plastics. Additionally, the Engineered Sprockets section now includes Cast Iron Sprockets.

Martin will continue to raise the bar, adding new products, perfecting others and continually offering the finest customer service in the industry.

This Catalog supercedes all previous editions. Note: Every effort is made to keep all catalog dimensions and styles current in the catalog, however from time to time, it is necessary because of manufacturing changes to alter stock products dimensionally. If any stock product dimension or style shown in this catalog is critical to your application, please consult factory for certification

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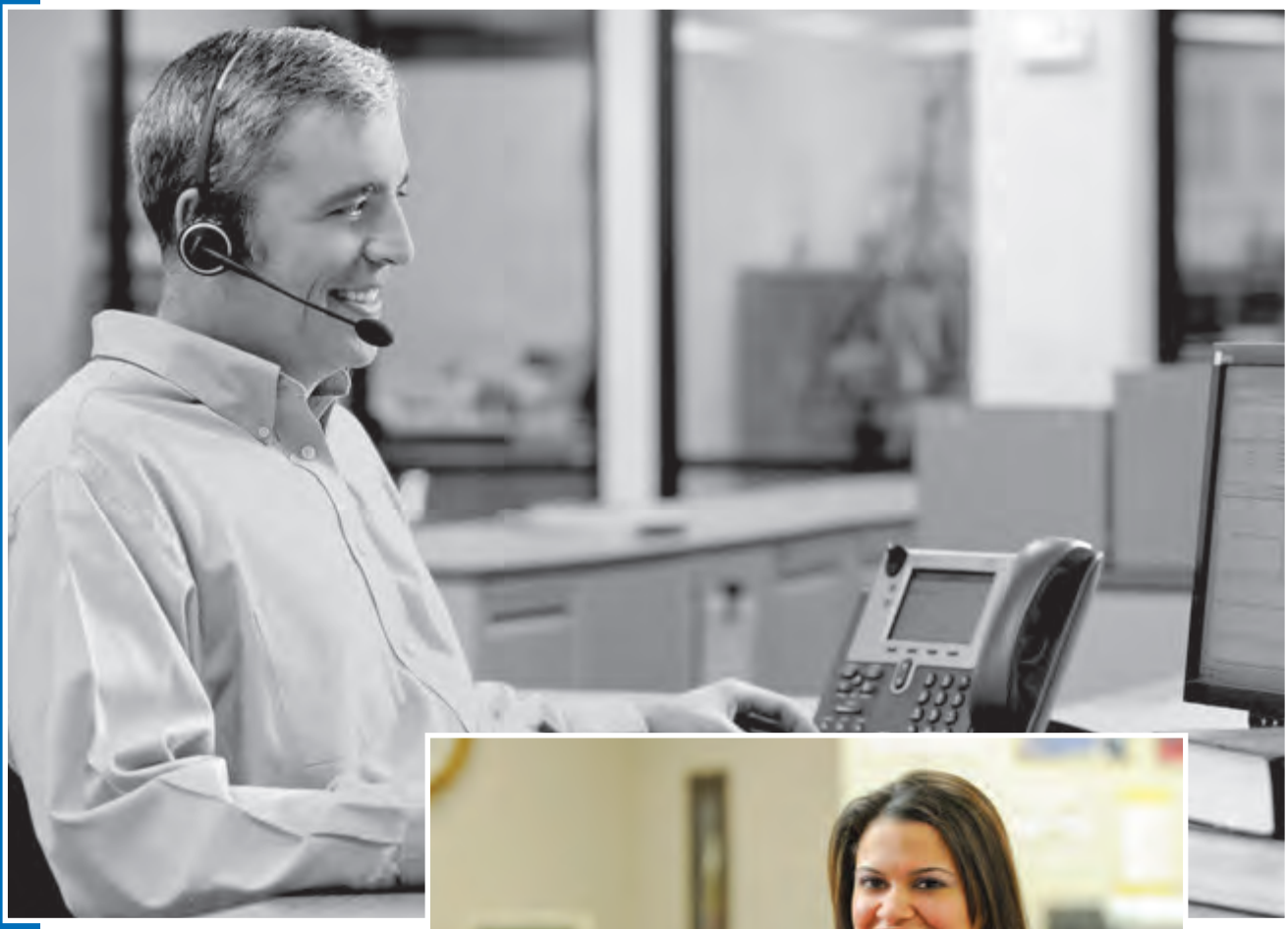
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Introduction





In the power transmission, bulk material handling and industrial hand tools industries, there's ONE company that stands apart — it's the ONE with the reputation for exceptional customer service — the ONE with parts and materials in stock nationwide — the ONE that provides quick turnaround times on MTOs and alterations — the ONE that keeps operations up and running with minimum downtime.

Martin is the ONE people trust for complete satisfaction — before, during, and after the sale.





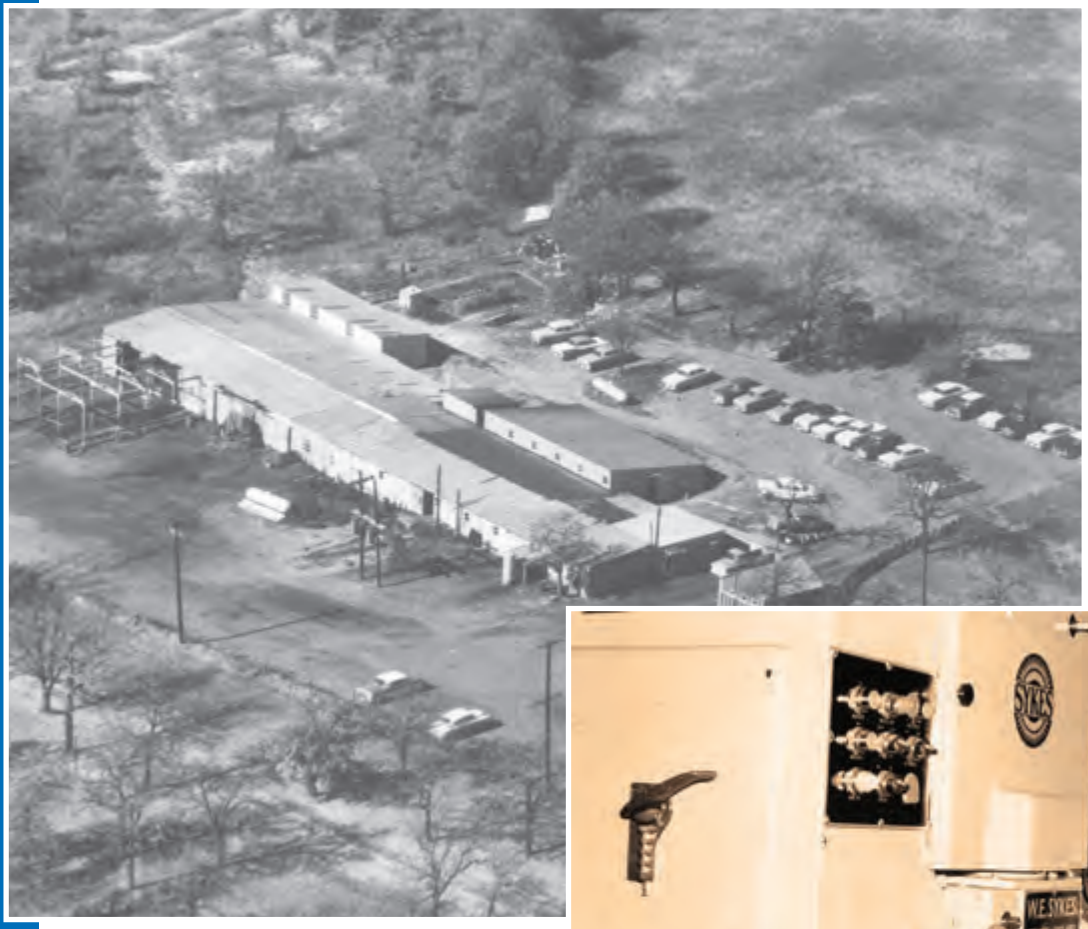
Over the years, Martin has built a reputation as an organization that's easy to do business with. Martin stands able to handle unique challenges on all levels. It is a company focused solely on the power transmission, material handling, and tool business!







Martin's Philosophy



In 1951, Martin began operations in Arlington, Texas.



Martin's philosophy of providing quality products, exceptional inventories, and service "second to none," has proved to be a successful and innovative combination. As a result of this philosophy, Martin has grown to be a world-class leader in the industrial marketplace.

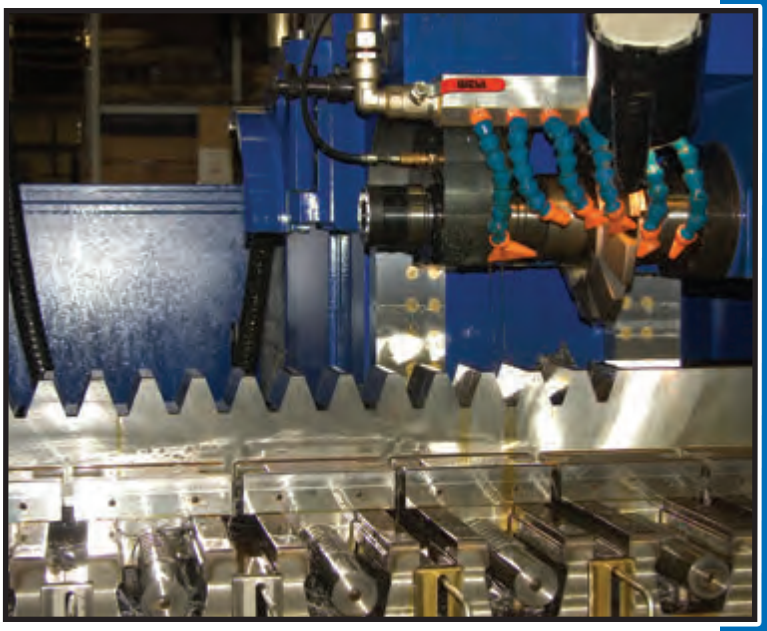




Above: Automated laser cutter improves efficiency, reduces waste, and enhances tolerances.

Upper Right: CNC Press Brake is used in the production of Martin's conveyor products.

Right: High speed rack cutter enhances capacity.



Martin has become a state-of-the-art industry leader with over 31 operations across North America. Martin is a company that's committed to continually raising the bar, increasing operational efficiencies, and establishing new benchmarks through superior solutions for a global marketplace.

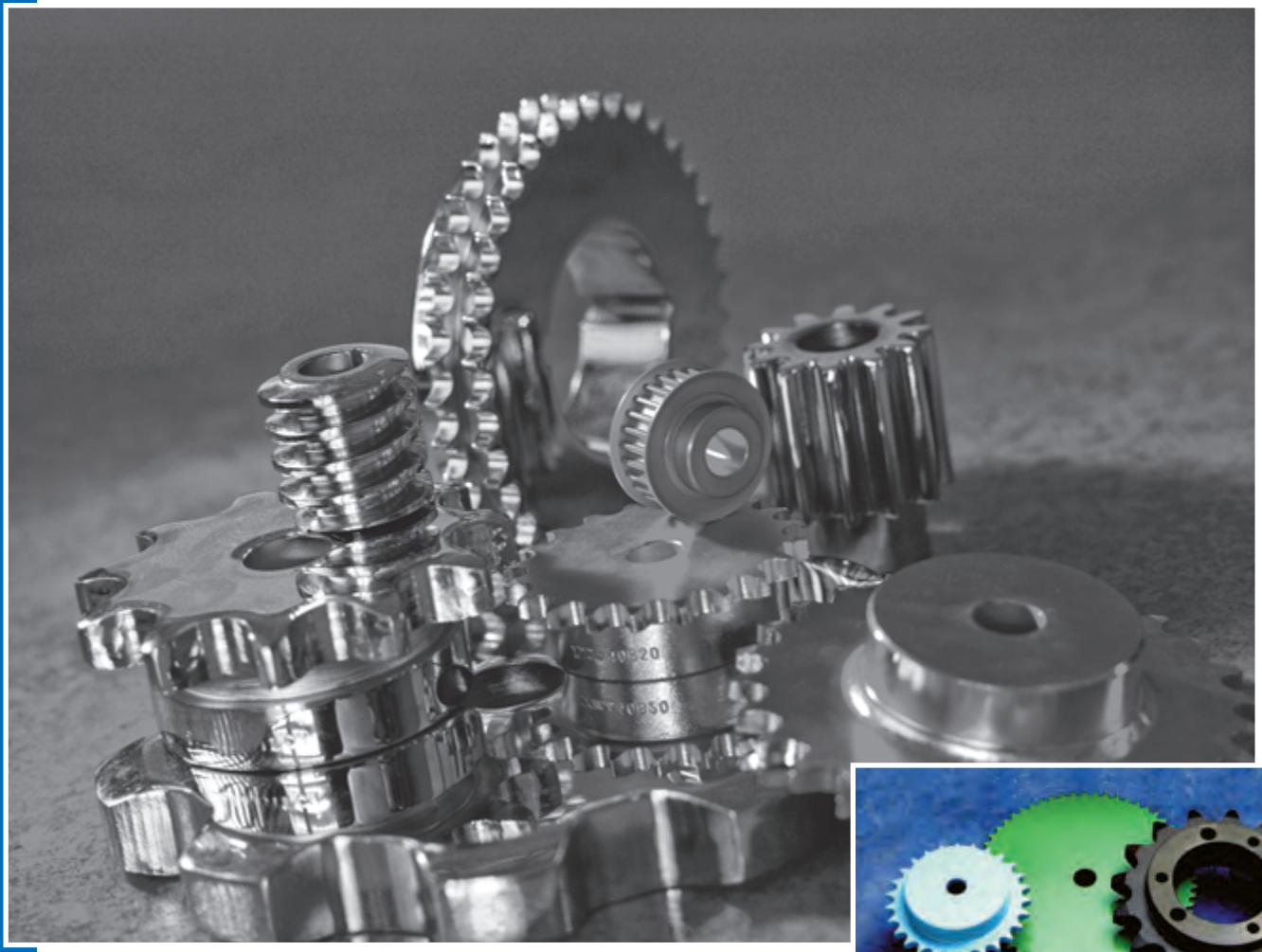
Below: Martin's investment in raw material means delivery of made-to-order, large quantity orders, or specials in record time.





Right: Multiple head burn tables provide for precise cutting of steel.

Power Transmission Products





The ONE who
can respond quickly to all
your power transmission
needs — stock, altered
and MTO!

When it comes to power transmission, Martin is the Company to turn to — the ONE with the largest and most complete line of roller chain sprockets in the industry and a comprehensive line of engineering class and mill chain sprockets.



Martin adheres to a strict quality system.



Above: Every local branch's fill rate exceeds 95%.

Left: Every branch location has the capabilities to handle your custom needs.

Every Martin plant in North America have complete inventories of the entire product line. And every plant has the ability to manufacture or custom alter parts with complete machining. Finished product can be staged locally for release per customer schedule.



Below: Products are inspected multiple times throughout the manufacturing process.



Power Transmission Products

Sprockets





Martin manufactures solid and split sprockets in a variety of materials — both metallic and non-metalic.

Martin carries a variety of stock and made-to-order sprockets including:

- Roller Chain Sprockets
- Bolt-On
- Engineering Class Sprockets
- Shear Pin
- Split and Solid
- Metric Sprockets
- Stainless Steel
- Plastic

MST, QD and Taper Bushed styles available.





Martin offers a complete line of Engineering Class Sprockets.

Bushings

Martin has the most complete line of bushings in the industry including:

- Taper Bushing Metric and Reborable
- All Steel "QD" Bushings
- MST - Martin Split Taper
- "QD" Short Bushings
- Stainless Steel
- MXT & MXT-STL Bushings
- Weld-On Hubs
- Standard "QD" Bushings
- "QD" Idler Bushings
- Tapered Bushings
- HE Bushings



Sheaves



Committed to meeting the individual needs of the end user, Martin serves the V-drive industry with extensive stock inventories, the capacity to meet larger quantity requirements, and the versatility to respond quickly to made-to-order applications.

- Stock Sheaves
- VP Sheaves
- MPC Sheaves



Timing Pulleys - Synchronous Drives

Martin offers a better solution for industries' synchronous drives. So completely compatible with today's high performance belts, you never need to worry about fit again.



- Stock Timing Pulleys
- HTS®
- High HP HTS®
- MPC®

Martin timing pulleys are manufactured to fit the old standby trapezoidal profile and are stocked in minimum plain bore, taper bushed and QD bushing styles.



One of the highlights of the Martin product line is our complete line of synchronous belt sprockets.

Power Transmission Products

Gears



Martin manufactures spur gears and gear rack, bevel gears, miter gears, and worm gears. And, with a vast inventory of raw materials, modern machine tool capacity, and a pro-service attitude, Martin makes short work of quick delivery on all specialty gears.

Martin provides a large variety of gears including:

• Spur • Rack • Bevel • Miter • Worm Gears • Helical





Couplings



Martin produces a variety of couplings including:

• Quadra-Flex® • Chain Couplings • Jaw Couplings • Martin-Flex®





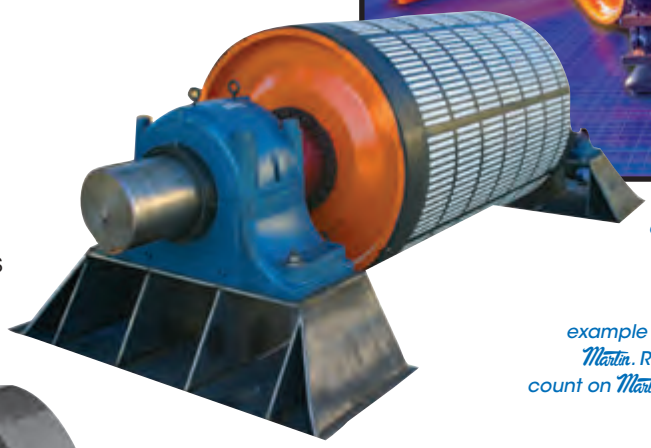
Martin manufactures all components, including a new, superior thermoplastic injection molded elastomer sleeve. That's what sets these flexible couplings apart from the rest.

Heavy-Duty Conveyor Pulleys

Martin continues to broaden its product offering without compromising quality. Martin now offers a comprehensive line of conveyor pulleys for your bulk material handling needs.

- Drum Pulleys from 3-1/2" to 60" Diameter
- Wing Pulleys from 6" to 60"
- Quarry Duty "AR" Wing Pulleys
- Standard, Heavy, Mine and Quarry Duty
- Stainless Steel Pulleys
- Spiral Pulleys
- Lumber Rolls
- Engineering Class Pulleys
- V-Guide Pulleys

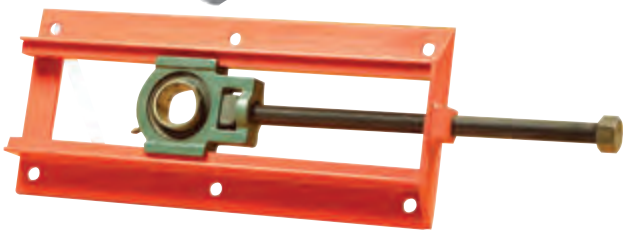




Above: Martin manufacturers both wing and drum pulleys in a wide range of weights to handle your toughest conveying job.

Left: This Engineered Drum pulley is just one example ot the Made-to-Order options available from Martin. Replacement pieces to complete assemblies, count on Martin for fast turn around times and exceptional customer service.





Conveyor Bushings & Hubs

Martin now offers MXT, MXT-STL and HE bushings & Hubs — compatible with XT and HE bushing styles. These new bushings are designed to reduce end disc pre-stressing and increase clamping force. Martin also offers a complete line of QD Short and Taper Lock styles.

Take-Up Frames

Martin continues to broaden its product offering without compromising quality. Martin now offers a comprehensive line of conveyor pulleys for your bulk material handling needs



Right: Martin offers field support to keep you up and running.

Bulk Material Handling Products



Martin is the ONE you rely on for bulk material handling solutions.



Screw Conveyors

Martin manufactures and stocks many standard screw conveyor components at several regional facilities located throughout North America. Conveyors are available as loose components or shop tested assembled.

Stock and MTO capabilities:

- Flights up to 10 ft. diameter
- Flights up to 1-1/2" thick
- Laminated flights for heavier requirements
- Trough up to 1" thick



Drag Conveyors

Martin drag conveyors are available as:

- Round Bottom
- Flat Bottom
- Mill Duty
- L & S Path

Drag conveyors are well suited for:

- Ash Handling
- Wood Waste
- Grain
- Dust Removal

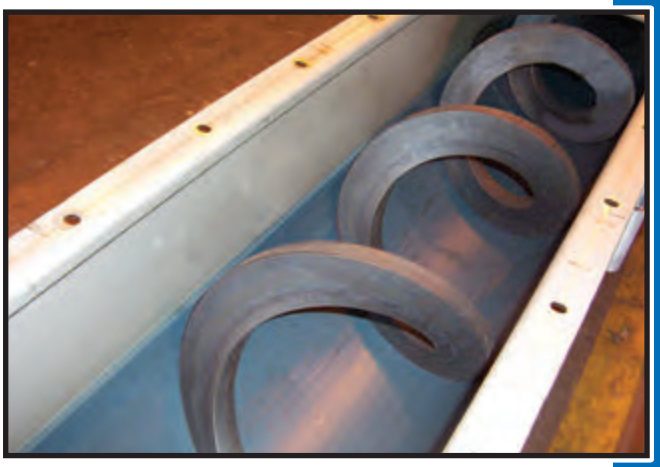
ANSI · RAB QMS ACCREDITED

Shaftless Conveyors

This pipeless heavy-duty screw solves problems that the traditional screw cannot. No pipe, no hanger bearings — fewer problems.

Shaftless conveyors alleviate problems associated with:

- Large/irregular lump size
- Stringy/sticky materials
- Equipment that is difficult to access/maintain
- Excessive downtime/maintenance



Above: Shaftless Screws are a great problem solver when it comes to moving wet, sticky or bulky products. Elimination of the center shaft allows for more product to be transported and reduces jamming.



Left: Martin offers a complete line of conveyor components available from stock.

Bucket Elevators

Martin manufactures Bucket Elevators in a variety of styles and configurations including:

- Standard Duty
  — Centrifugal — Continuous
- Mill Duty
- Super Capacity
- High speed and more

Below: Bucket Elevator





Left: Laser manufacturing assures tight tolerances.

Industrial Hand Tools



Martin is ready to meet the needs of numerous industries with the right tools for the job.



Last, but not least, in the Martin product line are **industrial grade hand tools**. Made in the USA with the highest quality materials and engineering, Martin Tools deliver the performance and value professionals demand.





Continuing the tradition of serving industry with the utmost in service and the finest quality products, Martin extends its vast manufacturing capabilities to the production of industrial hand tools. Martin's complete line of professional grade hand tools are recognized the world over for superior quality and strength.

Martin's complete line includes:

- Industrial Hand Tools
- Body & Fender Tools







Above: Martin manufacturers their own dies.

Top Right: Wrenches are just part of the complete line of industrial hand tools Martin manufactures.

Center Right: Martin manufactures a full line of industrial hand tools including pin and spanner wrenches for all your hydraulic needs.

Bottom Right: One of the many hammers Martin uses to produced forged parts up to 50 lbs.



Martin is the first name in Body & Fender Tools.



Custom Capabilities



Martin is the ONE for quick turnarounds on MTOs

- Sintered Metal
- Injection Molding
- Forgings
- Castings
- Milled Plastics

Martin Sprocket and Gear addresses each of its customer's specific needs with a unique blend of state-of-the-art technology and finely honed, real world category experience. When stock won't work, count on Martin for all your custom work.



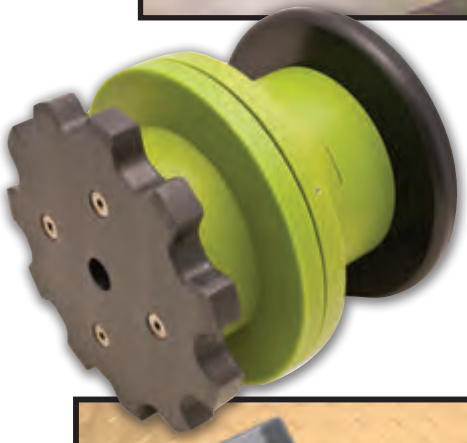


Greater overall savings can be achieved through Martin's custom capabilities by streamlining transactions, eliminating additional vendors, and reducing production time, while providing a more aesthetically pleasing and better quality part.

Martin can fabricate, cast, forge, sinter and injection mold your custom requirements. In addition to all this, secondary operations can be performed on-site, and scheduled product releases can be provided.

Custom capabilities — just another way Martin is able to offer a substantial cost savings.











Above: Martin offers custom Commercial Forgings, Press Forgings, Closed Impression Die Forgings and Hammer Forgings. Martin is able to manufacture forgings from a variety of metals. The most common being Carbon Steel and Alloy Steel.
Left: Martin offers custom injection molding in a variety of shapes sizes and materials.

Customer Service



The ONE with dedicated people ready, willing, and able to handle your needs.



But more than any machine or computer, more than any material or manufacturing process, it's the people who make Martin the ONE to call. Martin people stand ready to help whether it's at our place, your office, or job site. Count on Martin for superior customer support.



Martin offers the highest level of customer service. Whether it is immediate response, problem solving, routine order management or expediting that critical order, count on Martin's team of dedicated professionals for the utmost in customer service, before, during and after the sale.



Delivering not only quality products, but also service second to none, is a major focus at Martin. A number of electronic resources are available to facilitate order placement and reduce transaction costs. Some of these features include:

- Quotations
- Order Entry
- Inventory Lookup
- Shipping and Tracking
- EDI
  - Direct System-to-System
  - Web Based Connection

Product training, industry processes and failure analysis are offered to document user cost savings.

- Training Schools
- Lunch and Learns
- Product Literature

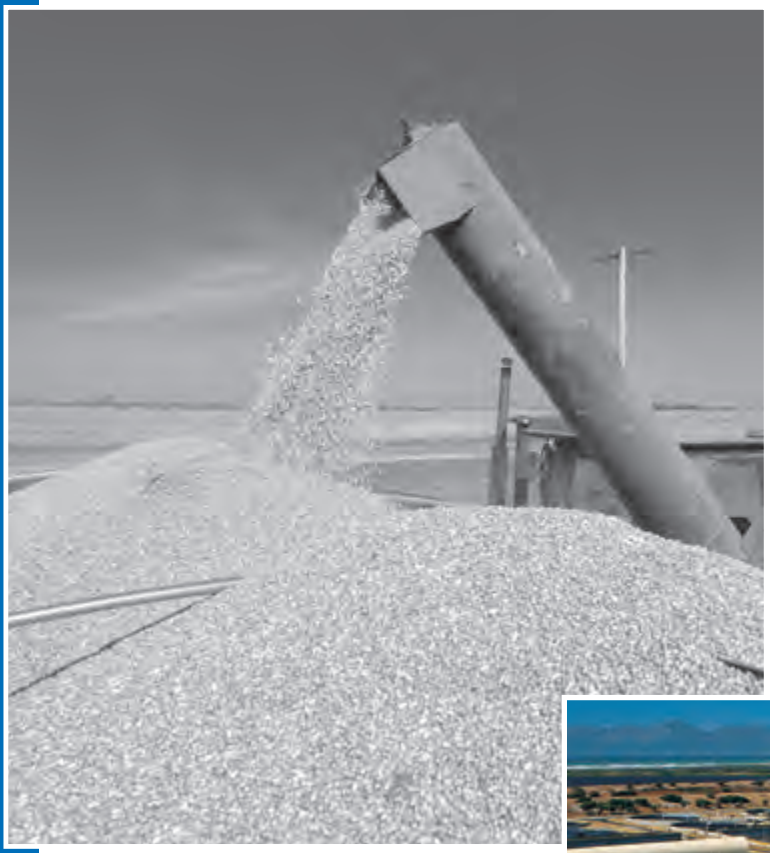
Martin offers distributor training at each of the many branch locations. Can't come to Martin? No problem, Martin can come to you.



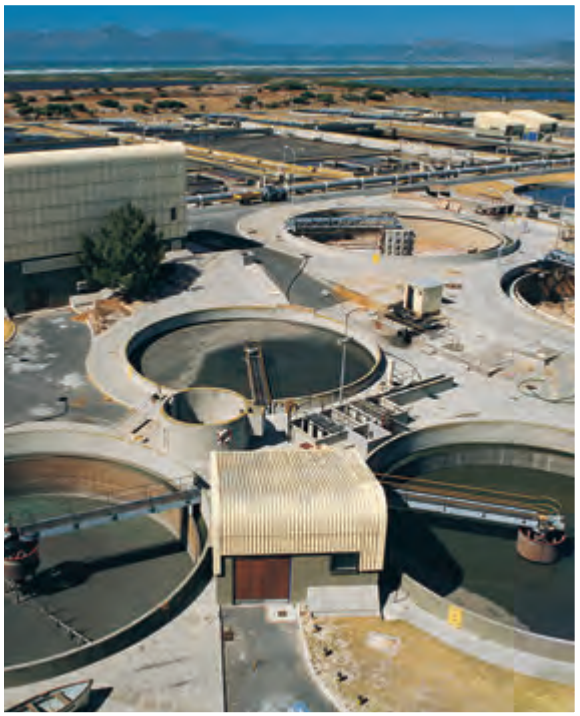


Product literature is available in multiple languages to serve a global marketplace.

Markets Served



The industries of America and the world — oil and gas, pulp and paper, food processing, water treatment, agriculture, aggregate, bottling, utilities, and more — are ever changing. These industries are continually evolving, running around the clock to power transportation, grow food, feed families, heat homes, and light schools. Martin continues to improve processes and add new products and services to meet the needs of these industries.



In virtually every industry, Martin is the ONE you rely on for industry specific product knowledge.





From one single source, is a comprehensive product line that provides a complete range of quality power transmission and material handling equipment to service virtually every industry.

- Aggregate
- Agriculture
- Alternative Energy
- Beverage Bottling
- Chemical Processing
- Construction
- Food Processing
- Leisure Time Products
- Mining
- Oil and Gas
- Packaging
- Plastics
- Product Fabrication
- Pulp and Paper
- Refineries
- Rubber
- Steel
- Textiles
- Transportation
- Utilities
- Water Treatment
- Wine

....and more!





Martin is the ONE company behind a variety of industries — ONE company that helps keep the wheels and machinery turning. The ONE company you and your customers can call for fast, effective solutions, every time.







More Locations to Serve You





When it comes to brick and mortar, Martin's got you covered.

- Quality Products
- Comprehensive Product Line
- Custom Capabilities
- Superior Service
- Local Branches





SPECIALTY PRODUCTS

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Made To Order
Specialty Products





SPLIT S820 SPROCKET



TAPER BUSHED
ADJUSTABLE HUB



SPECIAL BEARING
HOUSING



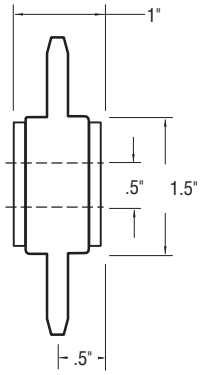
Martin Semi-Steel 800 Series Conveyor Sprockets
are Available for All your Flat Top Chain Needs.



The Most Complete Line of
Idler Sprockets.

Bronze Bushed Type





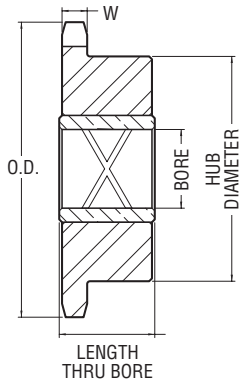
Bronze Bushed Type

No. Teeth	Catalog Number	Chain Size	O.D	Stock Bore	Wt. Lbs.
20	31E20	35	2.60	.5"	.46
15	41E15	41-40	2.65	.5"	.50
15	51E15	50	3.32	.5"	.70
14	61E14	60-60H	3.74	.5"	.92

Above idlers have oil impregnated sintered bronze bearings and are mounted on steel journals. Idler RPM to 2500. Radial load rating to 50 pounds.

Bronze Bearing Type





Bronze Bearing Idler Sprocket

No. Teeth	Catalog Number	Bearing Type	Chain Size	O.D	Stock Bore	Length Thru Bore	W	Hub Diameter	Wt. Lbs.
5	35BR15 1/2	Bronze	35	1.99	.5"	0.94	0.168	1.35	0.30
21	35BR21 .875	Bronze	35	2.71	.875"	1.06	0.168	2.00	0.75
13	41BR13 1/2	Bronze	41	2.33	.5"	0.94	0.227	1.56	0.50
19	41BR19 .875	Bronze	41	3.29	.875"	1.06	0.227	2.50	1.00
13	40BR13 1/2	Bronze	40	2.33	.5"	0.94	0.284	1.56	0.50
19	40BR19 .875	Bronze	40	3.29	.875"	1.06	0.284	2.50	1.25
13	50BR13 1/2	Bronze	50	2.91	.5"	0.94	0.343	1.87	0.90
17	50BR17 .875	Bronze	50	3.72	.875"	1.06	0.343	2.62	1.50
15	60BR15 .875	Bronze	60	3.98	.875"	1.06	0.459	2.62	1.75
17	60BR17 1 1/8	Bronze	60	4.46	1.125"	1.56	0.459	3.25	2.75
15	80BR15 1 1/8	Bronze	80	5.30	1.125"	1.56	0.575	3.50	4.25

.875" & 1.125" bore have double loop grease groove.

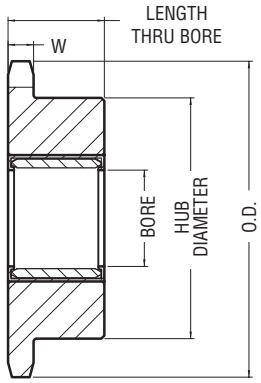
Radial Load Capacity in Pounds at Various Speeds Needle Bearings

Idler Size	RPM					
	100	500	1000	1500	2000	2500
.5" Bore	1021	630	512	453	416	389
1" Bore	2751	1698	1379	1221	1120	1048
1.5" Bore	6306	3891	3160	2798	2567	–

Ratings shown above are based on an average bearing life of 2500 hours.

Bronze Bearing Type





Bronze Bearing Idler Sprocket

No. Teeth	Catalog Number	Bearing Type	Chain Size	O.D	Stock Bore	Length Thru Bore	W	Hub Diameter	Wt. Lbs.
19	25NB19H 1/2	Needle	25	1.65	0.50	0.75	0.110	1.22	0.10
13	35NB13H 1/2	Needle	35	1.75	0.50	0.75	0.168	1.18	0.20
19	35NB19H 1	Needle	35	2.47	1.00	1.00	0.168	1.84	0.50
19	41NB19H 1	Needle	41	3.29	1.00	1.00	0.227	2.50	1.00
19	40NB19H 1	Needle	40	3.29	1.00	1.00	0.284	2.50	1.10
17	50NB17H 1	Needle	50	3.72	1.00	1.00	0.343	2.25	1.30
17	60NB17H 1	Needle	60	4.46	1.00	1.00	0.459	3.00	2.60
13	80NB13H 1	Needle	80	4.66	1.00	1.25	0.575	2.63	2.90
11	100NB11H 1 1/2	Needle	100	5.01	1.50	1.88	0.692	3.56	3.60
11	120NB11H 1 1/2	Needle	120	6.01	1.50	2.13	0.924	3.56	7.00
11	140NB11H 1 1/2	Needle	140	7.01	1.50	2.25	0.924	4.25	10.90
9	160NB9H 1 1/2	Needle	160	6.70	1.50	2.25	1.156	3.63	9.60

Idler Sprockets

Ball Bearing Idler Sprocket – Hardened Teeth

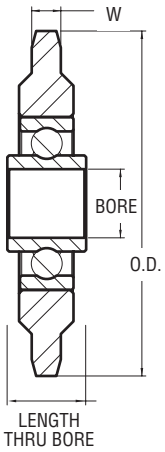
No. Teeth	Discontinued Part Number	Catalog Number	Bearing Type	Chain Size	O.D	Stock Bore	Length Thru Bore	W	Wt. Lbs.
20		25BB20 3/8 *	Ball	25	1.73	0.394	0.35	0.110	0.10
19		35BB19H 3/8	Ball	35	2.47	0.394	0.38	0.168	0.35
19		35BB19H 1/2	Ball	35	2.47	0.510	0.72	0.168	0.35
20	35BB20H	35BB20H 5/8	Ball	35	2.59	0.638	0.72	0.168	0.38
18		41BB18H 1/2	Ball	41	3.14	0.510	0.72	0.227	0.51
18		41BB18H 5/8	Ball	41	3.14	0.638	0.72	0.227	0.51
17	40BB17H	40BB17H 5/8	Ball	40	2.97	0.638	0.72	0.284	0.52
18		40BB18H 1/2	Ball	40	3.14	0.510	0.72	0.284	0.53
18	40BB18H	40BB18H 5/8	Ball	40	3.14	0.638	0.72	0.284	0.53
25		40BB25H 5/8	Ball	40	4.26	0.638	0.72	0.284	0.90
35		40BB35H 5/8	Ball	40	5.86	0.638	0.72	0.284	1.77
48		40BB48H 5/8	Ball	40	7.93	0.638	0.72	0.284	3.37
15	50BB15H	50BB15H 5/8	Ball	50	3.32	0.638	0.72	0.343	0.75
17		50BB17H 1/2	Ball	50	3.72	0.510	0.72	0.343	0.78
17	50BB17H	50BB17H 5/8	Ball	50	3.72	0.638	0.72	0.343	0.78
25		50BB25H 3/4	Ball	50	5.32	0.750	0.61	0.343	1.66
39		50BB39H 3/4	Ball	50	8.12	0.750	0.61	0.343	4.09
12		60BB12H 5/8	Ball	60	3.25	0.638	0.72	0.459	0.72
13	60BB13H	60BB13H 5/8	Ball	60	3.49	0.638	0.72	0.459	0.76
15		60BB15H 1/2	Ball	60	3.98	0.510	0.72	0.459	1.06
15	60BB15H	60BB15H 5/8	Ball	60	3.98	0.638	0.72	0.459	1.06
17		60BB17H 5/8	Ball	60	4.46	0.638	0.72	0.459	1.10
12	80BB12H	80BB12H 3/4	Ball	80	4.33	0.750	0.61	0.575	1.50

Note: .394 Stock Bore is +.000 .0003; .510 Stock Bore is +.005 .000; .638 Stock Bore is +.005 .000; .750 Stock Bore is +.005 .000. Discontinued Part Numbers will be replaced with Catalog Number when existing inventory is exhausted.

* Unhardened Teeth

Ball Bearing Type





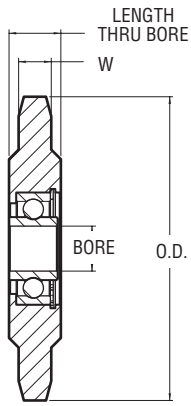
Ball Bearing Idler Sprockets – Non Metallic Teeth

No. Teeth	Catalog Number	Bearing Type	Chain Size	O.D	Stock Bore	Length Thru Bore	W	Wt. Lbs.
17	40BB17NM 1/2	Ball	40	2.97	0.510	0.72	0.284	0.24
18	40BB18NM 5/8	Ball	40	3.14	0.638	0.72	0.284	0.23
17	50BB17NM 1/2	Ball	50	3.72	0.510	0.72	0.343	0.29
18	50BB18NM 5/8	Ball	50	3.92	0.638	0.72	0.343	0.29
15	60BB15NM 1/2	Ball	60	3.98	0.510	0.72	0.459	0.32
16	60BB16NM 5/8	Ball	60	4.22	0.638	0.72	0.459	0.33
12	80BB12NM 3/4	Ball	80	4.33	0.750	0.61	0.575	0.44

Note: .510 Stock Bore is +.005 .000; .638 Stock Bore Is +.005 .000; .750 Stock Bore Is +.005 .000

Non-Metallic Teeth Ball Bearing Type

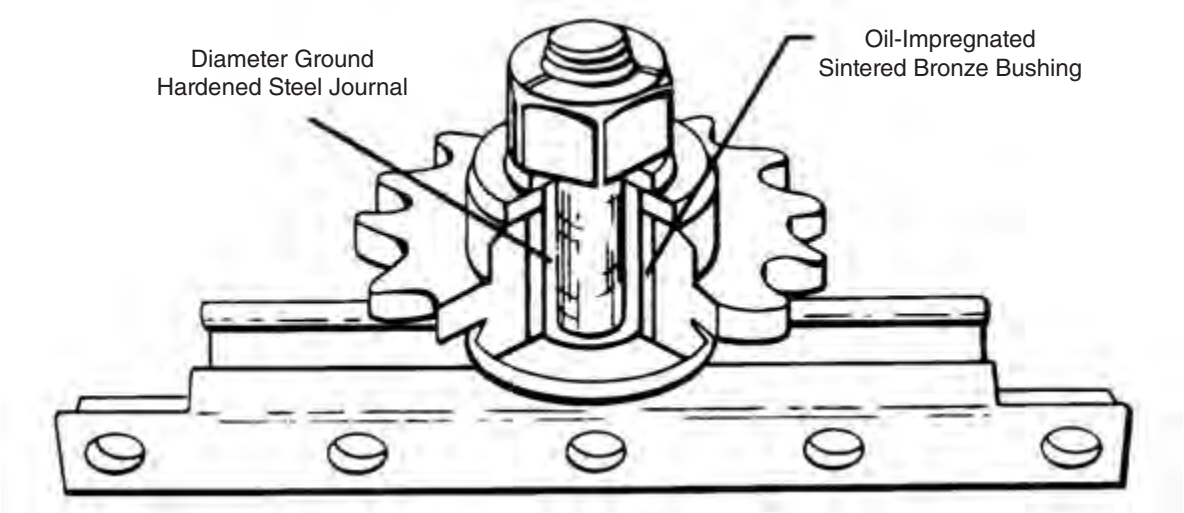




Radial Load Capacity in Pounds at Various Speeds Ball Bearings

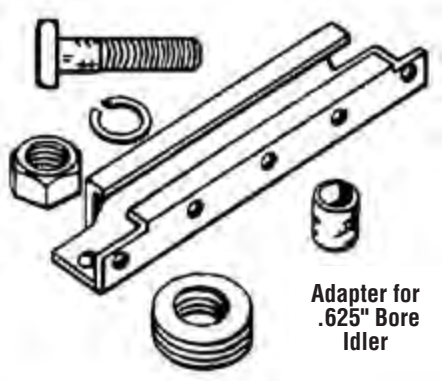
Idler Size	RPM					
	100	500	1000	1500	2000	2500
.375" Bore	620	363	288	252	229	212
.5" & .625" Bore	800	460	360	320	290	270
.75" Bore	1290	755	600	523	478	440

Ratings shown above are based on an average bearing life of 2500 hours.

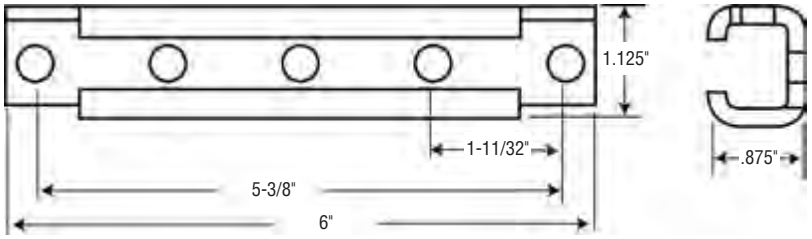


Chain Tightener
(Less Idler Sprocket)

No. E-5006



Adapter for .625" Bore Idler



Attachment Bolts Not Furnished

Attachments Holes for 5/16" Bolts

Martin Chain Tighteners are economical to use . . . they provide everything needed for a quick, easy installation . . . they save time and money . . . there is no need to design, procure or custom make and assemble separate parts . . . they accommodate mounting in several different positions . . . parallel or at 90° to the mounting surface . . . as cantilever or attached each end.

Features of Martin Idlers

Smooth-running, oil-impregnated, sintered bronze, extra-duty bearing press-fitted in sprocket. Steel journal case hardened . . . for maximum resistance to wear . . . diameter ground surface for free running under load.

Steel sprockets used in Martin Idlers . . . are accurately machined (not stamped) the same as sprockets normally supplied for power transmission use.

Martin Series 800 Conveyor Sprockets Manufactured From High Quality Semi-Steel



815 Solid Face with Guide Ring Holes for Straight Running Chains

THE NEW "QRS®" SPLIT



PAT. # 4,964,842

Split 81.62520 Solid and Grooved Face with Guide Ring Holes Steel and Thermoplastic



820 Grooved Face for Straight Running Chain



821 Heavy Duty for Wide Hinged Chain Straight Running



880 and 882 Single Duty for Side Flex Chains



881 for Side Flex Chain

815, 820, and 881 sprockets are all double duty. Sprockets with an odd number of teeth are recommended to reduce wear since a given tooth engages the chain every other revolution. Sprockets with 19, 21, 23, and 25 teeth are preferred. Sprockets with even number of teeth should be advanced one tooth periodically to attain even wear.

Martin "QRS®" Split Sprocket

Series 81.62520 Split Sprockets for Flat Top Conveyor Chains

Split Sprockets Manufactured
from Steel and Thermoplastic Material
Stocked in 21, 23, 25, and 27 Tooth Sizes

Martin's **Q**uick **R**eplacement **S**plit Sprocket eliminates the time-consuming and costly dismounting of shafts and pillow blocks to remove worn sprockets — all that's required is a wrench

"QRS" Split Thermoplastic Sprocket Advantages:
Lightweight — Service Temp. to 300°F — Low Temp. Toughness — Excellent Resistance to Oils, Grease, Soaps, and Detergents — Outstanding Abrasion and Impact Resistance

Available with solid and grooved face
and furnished with rust resistant plated steel bolts and nuts

Split (plated carbon steel and stainless) Guide Rings
available, if necessary, for easy assembly



Proudly made in U.S.A.

PAT. # 4,964,842

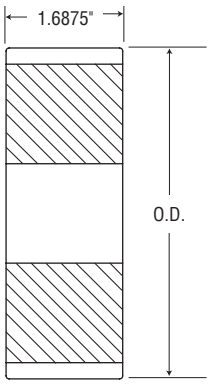
Call your Martin Distributor

Split Steel and Thermoplastic Stock Bore

Series 815 Sprockets — Split Steel

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS815A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	5.0 (2.27)
QRS815A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	5.6 (2.54)
QRS815A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	6.6 (3.0)
QRS815A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	7.8 (3.54)

Supplied with 5/16 -18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)



Solid Face

Series 815 Sprockets — Split Thermoplastic

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS815A21P	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	.94 (.43)
QRS815A23P	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	1.00 (.45)
QRS815A25P	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	1.10 (.50)
QRS815A27P	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	1.25 (.57)

Thermoplastic temperature operating range –20°F to +300°F

Supplied with 5/16 -18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)



Series 820 Sprockets — Split Steel

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS820A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	5.0 (2.27)
QRS820A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	5.6 (2.54)
QRS820A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	6.6 (3.0)
QRS820A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	7.8 (3.54)

Supplied with 5/16-18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)



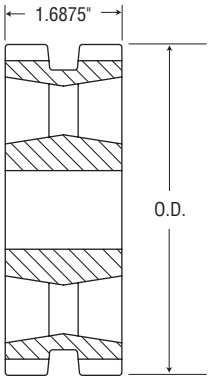
PAT. # 4,964,842

Series 820 Sprockets — Split Thermoplastic

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS820A21P	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	.94 (.43)
QRS820A23P	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	1.00 (.45)
QRS820A25P	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	1.10 (.50)
QRS820A27P	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	1.25 (.57)

Thermoplastic temperature operating range –20°F to +300°F

Supplied with 5/16 -18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)



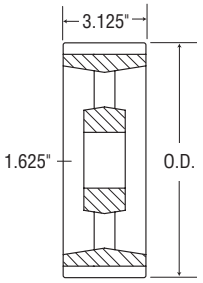
Grooved Face

For Guide Ring Specifications See page A-12.

Series 821 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
821A21	21	10.5	5.089 (129.26)	5.12 (130.0)	1 (25.4)	1.75 (44.5)	6.7 (3.0)
821A23	23	11.5	5.560 (141.22)	5.59 (142.0)	1 (25.4)	1.75 (44.5)	7 (3.2)
821A25	25	12.5	6.032 (153.21)	6.07 (154.2)	1 (25.4)	1.75 (44.5)	7.3 (3.3)
821A27	27	13.5	6.504 (165.20)	6.56 (166.6)	1 (25.4)	1.75 (44.5)	7.6 (3.4)
821A29	29	14.5	6.978 (177.24)	7.05 (179.1)	1 (25.4)	1.75 (44.5)	8.0 (3.6)



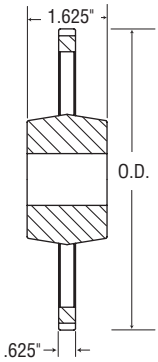


† Inches (mm)
†† Lbs (kg)
821 Series also runs with 815 H chain.

Series 880 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
880C9 •	9	9	4.386 (111.40)	4.33 (110.0)	.75 (19.1)	1.75 (44.5)	2.8 (1.3)
880C10	10	10	4.854 (123.29)	4.82 (122.4)	.75 (19.1)	1.75 (44.5)	3.2 (1.4)
880C11	11	11	5.324 (135.22)	5.31 (134.9)	.75 (19.1)	1.75 (44.5)	3.4 (1.5)
880C12	12	12	5.796 (147.22)	5.80 (147.3)	.75 (19.1)	1.75 (44.5)	3.6 (1.6)
880C15	15	15	7.215 (182.26)	7.26 (184.4)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)



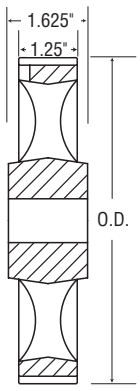


• Block Body – Other sizes are arm body.
† Inches (mm)
†† Lbs (kg)

Series 881 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
881C21	21	10.5	5.089 (129.26)	5.120 (130.05)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
881C23	23	11.5	5.560 (141.22)	5.590 (141.99)	.75 (19.1)	1.75 (44.5)	4.6 (2.1)
881C25	25	12.5	6.032 (153.21)	6.070 (154.18)	.75 (19.1)	1.75 (44.5)	5.0 (2.3)





† Inches (mm)
†† Lbs (kg)

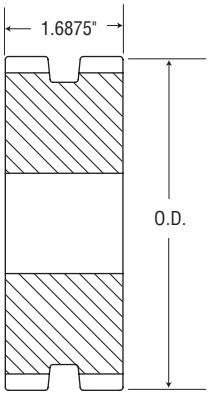
800 Series
Conveyor Sprockets

Series 820 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
820A13B •	13	6.5	3.228 (81.99)	3.11 (79.0)	.75 (19.1)	1.25 (31.8)	2.4 (1.1)
820A15B •	15	7.5	3.688 (93.68)	3.63 (92.2)	.75 (19.1)	1.25 (31.8)	3.6 (1.6)
820A17B •	17	8.5	4.153 (105.49)	4.12 (104.7)	.75 (19.1)	1.6875 (42.9)	4.7 (2.1)
820A19	19	9.5	4.620 (117.35)	4.61 (117.1)	.75 (19.1)	1.25 (31.8)	3.1 (1.5)
820A20	20	10	4.854 (123.29)	4.86 (123.4)	.75 (19.1)	1.25 (31.8)	3.8 (1.7)
820A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.75 (44.5)	4.6 (2.1)
820A21B •	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	2.5 (63.5)	7.1 (3.3)
820A22	22	11	5.324 (135.23)	5.35 (135.9)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
820A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.75 (44.5)	5.3 (2.4)
820A24	24	12	5.796 (147.22)	5.83 (148.1)	.75 (19.1)	1.75 (44.5)	4.4 (2.0)
820A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	2 (50.8)	5.6 (2.4)
820A25B •	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	3-3/16 (81.0)	9.6 (4.4)
820A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	2 (50.8)	6.5 (2.8)
820A29	29	14.5	6.978 (177.24)	7.05 (179.1)	.75 (19.1)	2 (50.8)	6.8 (3.1)
820A31	31	15.5	7.452 (189.28)	7.53 (191.3)	.75 (19.1)	2 (50.8)	6.9 (3.1)
820A41	41	20.5	9.826 (249.58)	9.93 (252.2)	.75 (19.1)	2.5 (64)	16.00 (7.1)

• Block Body — Other sizes are arm body.
† Inches (mm)
†† Lbs (kg)
Max. bore shown is with Standard Keyway and Setscrew.
820 Series stocked grooved. (Guide ring holes in 21, 23, 25, and 27 tooth sizes can be provided upon request).



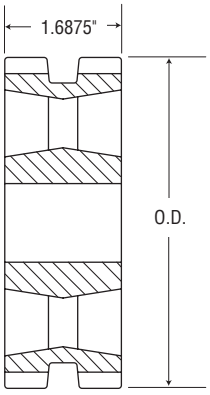


Steel

Series 820 Sprockets — Semi-Steel — Bored-to-Size

Catalog Number	Inch/Metric Stock Finished Bores With Standard Keyway and Setscrew				
820BS19		1" (25.4)			
820BS21		1" (25.4)			
820BS23	.875" (22.2)	1" (25.4)	1.125" (28.6)	1.187" (30.2)	1.25" (31.8)
820BS25		1" (25.4)		1.187" (30.2)	1.25" (31.8)
820BS27		1" (25.4)			

Stock grooved without guide ring holes. All arm body.



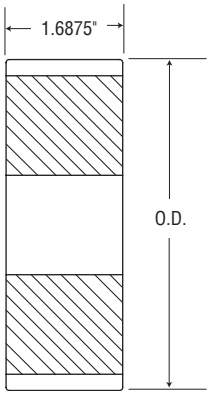
Cast

Series 815 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
815A13B •	13	6.5	3.228 (81.99)	3.11 (79.0)	.75 (19.1)	1.25 (31.8)	2.4 (1.1)
815A15B •	15	7.5	3.688 (93.68)	3.63 (92.2)	.75 (19.1)	1.25 (31.8)	3.6 (1.6)
815A17B •	17	8.5	4.153 (105.49)	4.12 (104.7)	.75 (19.1)	111/16 (42.9)	4.7 (2.1)
815A19	19	9.5	4.620 (117.35)	4.61 (117.1)	.75 (19.1)	1.25 (31.8)	3.1 (1.5)
815A20	20	10	4.854 (123.29)	4.86 (123.4)	.75 (19.1)	1.25 (31.8)	3.8 (1.7)
815A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.75 (44.5)	4.6 (2.1)
815A21B •	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	2.5 (63.5)	7.1 (3.3)
815A22	22	11	5.324 (135.23)	5.35 (135.9)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
815A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.75 (44.5)	5.3 (2.4)
815A24	24	12	5.796 (147.22)	5.83 (148.1)	.75 (19.1)	1.75 (44.5)	4.4 (2.0)
815A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	2 (50.8)	5.6 (2.4)
815A25B •	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	3-3/16 (81.0)	9.6 (4.4)
815A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	2 (50.8)	6.5 (2.8)
815A29	29	14.5	6.978 (177.24)	7.05 (179.1)	.75 (19.1)	2 (50.8)	6.8 (3.1)
815A31	31	15.5	7.452 (189.28)	7.53 (191.3)	.75 (19.1)	2 (50.8)	6.9 (3.1)
815A41	41	20.5	9.826 (249.58)	9.93 (252.2)	.75 (19.1)	2.5 (64)	16.00 (7.1)

• Block Body — Other sizes are arm body.
† Inches (mm)
†† Lbs (kg)
Max. bore shown is with Standard Keyway and Setscrew.
815 Series stocked not grooved, with guide ring holes.



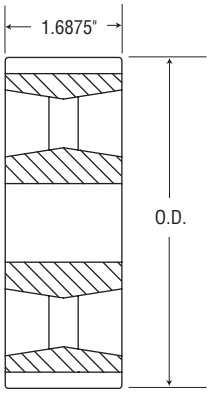


Steel

Series 815 Sprockets — Semi-Steel — Bored-to-Size

Catalog Number	Inch/Metric Stock Finished Bores With Standard Keyway and Setscrew				
815BS19		1" (25.4)			
815BS21		1" (25.4)			
815BS23	.875" (22.2)	1" (25.4)	1.125" (28.6)	1.187" (30.2)	1.25" (31.8)
815BS25		1" (25.4)		1.187" (30.2)	1.25" (31.8)
815BS27		1" (25.4)			

Stock grooved without guide ring holes. All arm body.



Cast

Series 800
Conveyor Sprockets

Series 822 Sprockets — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
882C9	9	9	4.386 (111.40)	4.430 (112.5)	.75 (19.1)	1.75 (44.5)	3.8 (1.8)
882C10	10	10	4.854 (123.29)	4.920 (125.0)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
882C11	11	11	5.325 (135.25)	5.410 (137.40)	.75 (19.1)	1.75 (44.5)	4.4 (2.1)
882C12 •	12	12	5.796 (147.21)	5.90 (149.90)	.75 (19.1)	1.75 (44.5)	4.6 (2.2)

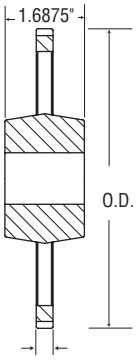
• Arm Body — Other sizes are block body.
† Inches (mm)
†† Lbs (kg)



815 Guide Rings — Steel and Stainless Steel

Catalog Number ★	O.D.†	Thick †	Weight †† Per Set
GR15-16	3.62	1/16	.23
GR15-16SS	(91.9)	(1.6)	(.10)
GR17-18	4.11	1/16	.26
GR17-18SS	(104.4)	(1.6)	(.120)
GR19-20	4.58	1/8	.37
GR19-20SS	(116.3)	(3.2)	(.17)
GR21-22	5.09	1/8	.44
GR21-22SS	(129.3)	(3.2)	(.20)
GR23-24	5.56	1/8	.46
GR23-24SS	(141.2)	(3.2)	(.21)
GR25-26	6.04	1/8	.47
GR25-26SS	(153.4)	(3.2)	(.21)
GR27-28	6.53	1/8	.53
GR27-28SS	(165.9)	(3.2)	(.24)
GR29-30	7.02	1/8	.56
GR29-30SS	(178.3)	(3.2)	(.25)
GR31-32	7.50	1/8	.67
GR31-32SS	(190.5)	(3.2)	(.30)
GR41-42	9.89	1/8	.92
GR41-42SS	(251.2)	(3.2)	(.42)

★ Carbon Steel
Stainless Steel
† Inches (mm)
†† Lbs (kg)



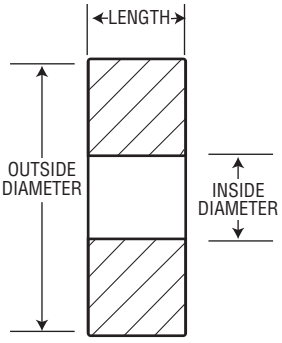
Semi-Finished Weld-On Hubs

Stock Semi-Finished Weld-On Hubs

Catalog Number	Dimensions			Approx. Wt. Lbs.
	Outside Diameter	Length	Inside Diameter	
225-28-19	2.25	.875	.594	.9
225-28-23	2.25	.875	.719	.9
225-32-00	2.25	1	—	1.1
250-30-00	2.5	.938	—	1.3
250-40-00	2.5	1.25	—	1.7
300-25-19	3	.719	.594	1.2
300-30-23	3	.938	.719	1.6
300-30-30	3	.938	.938	1.6
300-32-00	3	1	—	2.0
300-38-00	3	1.187	—	2.4
300-40-30	3	1.25	.938	2.3
325-25-19	3.25	.719	.594	1.8
325-30-23	3.25	.938	.719	2.1
350-30-00	3.5	.938	—	2.6
350-34-00	3.5	1.063	—	2.9
350-38-00	3.5	1.187	—	3.2
356-28-23	3.563	.875	.719	2.4
356-28-30	3.563	.875	.938	2.3
356-31-23	3.563	.969	.719	2.6
375-30-00	3.75	.938	—	2.9
375-30-30	3.75	.938	.938	2.8
375-45-30	3.75	1.406	.938	4.1
400-26-00	4	.813	—	2.9
400-26-23	4	.813	.719	2.8
400-26-30	4	.813	.938	2.7
400-31-30	4	.989	.938	3.3
400-32-23	4	1	.719	3.5
400-36-00	4	1.125	—	3.5
400-48-30	4	1.5	.938	5.1
425-26-00	4.25	.813	—	3.3
425-26-30	4.25	.813	.938	3.1
425-30-30	4.25	.938	.938	3.6
425-38-30	4.25	1.187	.938	4.5
425-42-40	4.25	1.313	1.25	4.8
425-45-30	4.25	1.406	.938	5.4
425-50-40	4.25	1.563	1.25	5.7
450-34-00	4.5	1.063	—	4.8
450-36-40	4.5	1.125	1.25	4.7
450-44-40	4.5	1.375	1.25	5.7
450-44-48	4.5	1.375	1.5	5.7
450-48-48	4.5	1.5	1.5	6.0
475-12-40	4.75	.375	1.25	1.8
475-22-30	4.75	.688	.938	3.3
475-22-40	4.75	.688	1.25	3.3
475-26-40	4.75	.813	1.25	4.0
475-30-30	4.75	.938	.938	4.5
475-36-00	4.75	1.125	—	5.7
475-36-30	4.75	1.125	.938	5.5
475-44-48	4.75	1.375	1.5	6.2
475-48-38	4.75	1.5	1.187	7.0
475-48-40	4.75	1.5	1.25	7.0
475-50-00	4.75	1.563	—	7.8
475-50-40	4.75	1.563	1.25	7.8
475-54-00	4.75	1.688	—	8.5
500-42-40	5	1.313	1.25	6.8
500-50-00	5	1.563	—	8.7
500-50-40	5	1.563	1.25	8.7
500-58-40	5	1.813	1.25	9.5
500-58-48	5	1.813	1.5	9.4
525-24-32	5.25	.75	1	4.4
525-34-00	5.25	1.063	—	6.5
525-36-40	5.25	1.125	1.25	6.5
525-42-00	5.25	1.313	—	8.1
525-48-40	5.25	1.5	1.25	8.7
525-48-48	5.25	1.5	1.5	8.7
525-62-32	5.25	1.938	1	11.5
525-72-32	5.25	2.25	1	13.3
550-34-00	5.5	1.063	—	7.2
550-44-40	5.5	1.375	1.25	8.6
550-44-48	5.5	1.375	1.5	8.6

Catalog Number	Dimensions			Approx. Wt. Lbs.
	Outside Diameter	Length	Inside Diameter	
550-48-40	5.5	1.5	1.25	9.3
550-48-48	5.5	1.5	1.5	9.3
550-58-40	5.5	1.813	1.25	11.6
550-58-48	5.5	1.813	1.5	11.6
550-64-48	5.5	2	1.5	12.5
575-24-32	5.75	.75	1	5.4
575-32-00	5.75	1	—	7.4
575-42-00	5.75	1.313	—	9.7
575-42-48	5.75	1.313	1.5	9.7
575-44-36	5.75	1.375	1.125	10.9
575-52-00	5.75	1.625	—	12.0
575-52-48	5.75	1.625	1.5	12.0
575-72-32	5.75	2.25	1	16.1
600-41-48	6	1.281	1.5	9.6
600-46-48	6	1.438	1.5	10.8
600-52-48	6	1.625	1.5	12.2
600-58-48	6	1.813	1.5	13.6
600-62-00	6	1.938	—	15.5
600-62-40	6	1.938	1.25	15.5
600-62-48	6	1.938	1.5	15.5
600-68-48	6	2.125	1.5	16.0
600-80-48	6	2.5	1.5	18.8
625-16-40	6.25	.5	1.25	4.4
625-16-48	6.25	.5	1.5	4.4
625-24-32	6.25	.75	1	6.4
625-24-40	6.25	.75	1.25	6.4
625-24-48	6.25	.75	1.5	6.4
625-28-48	6.25	.875	1.5	7.2
625-30-48	6.25	.938	1.5	8.1
625-32-40	6.25	1	1.25	8.3
625-34-48	6.25	1.063	1.5	9.3
625-38-40	6.25	1.187	1.25	10.0
625-38-48	6.25	1.187	1.5	9.7
625-48-48	6.25	1.5	1.5	12.3
625-52-48	6.25	1.625	1.5	13.3
625-68-48	6.25	2.125	1.5	17.4
625-80-32	6.25	2.5	1	21.1
650-44-00	6.5	1.375	—	12.9
650-44-48	6.5	1.375	1.5	12.9
650-52-48	6.5	1.625	1.5	14.5
650-72-48	6.5	2.25	1.5	20.0
650-96-48	6.5	3	1.5	26.7
675-36-40	6.75	1.125	1.25	11.0
675-38-48	6.75	1.187	1.5	11.4
675-44-48	6.75	1.375	1.5	13.3
675-61-48	6.75	1.906	1.5	19.4
675-72-48	6.75	2.25	1.5	21.7
675-94-40	6.75	2.938	1.25	28.3
700-24-48	7	.75	1.5	8.2
700-26-48	7	.813	1.5	8.9
700-28-48	7	.875	1.5	8.9
700-30-48	7	.938	1.5	9.2
700-32-48	7	1	1.5	9.8
700-36-48	7	1.125	1.5	12.3
700-38-48	7	1.187	1.5	13.0
700-44-48	7	1.375	1.5	14.3
700-52-48	7	1.625	1.5	16.9
700-58-48	7	1.813	1.5	18.9
700-61-48	7	1.906	1.5	19.8
700-62-48	7	1.938	1.5	21.1
700-68-48	7	2.125	1.5	22.1
700-112-48	7	3.5	1.5	36.4
725-36-40	7.25	1.125	1.25	12.8
725-94-40	7.25	2.938	1.25	33.3
750-24-48	7.5	.75	1.5	9.0
750-44-48	7.5	1.375	1.5	16.5
750-50-48	7.5	1.563	1.5	18.8
750-58-48	7.5	1.813	1.5	21.8
750-66-48	7.5	2.063	1.5	24.8
750-68-48	7.5	2.125	1.5	25.5

Catalog Number	Dimensions			Approx. Wt. Lbs.
	Outside Diameter	Length	Inside Diameter	
750-70-48	7.5	2.188	1.5	26.3
750-72-48	7.5	2.25	1.5	27.0
750-74-48	7.5	2.313	1.5	28.0
750-84-48	7.5	2.625	1.5	31.5
750-94-48	7.5	2.938	1.5	35.0
775-36-48	7.75	1.125	1.5	23.0
775-58-48	7.75	1.813	1.5	25.0
775-66-48	7.75	2.063	1.5	26.0
775-74-48	7.75	2.313	1.5	31.0
775-94-48	7.75	2.938	1.5	36.0
800-54-48	8	1.688	1.5	23.2
800-62-48	8	1.938	1.5	26.6
800-72-48	8	2.25	1.5	30.9
800-78-48	8	2.438	1.5	33.5
800-112-48	8	3.5	1.5	48.1
850-50-48	8.5	1.563	1.5	24.3
850-52-48	8.5	1.625	1.5	24.3
850-72-48	8.5	2.25	1.5	35.0
850-84-48	8.5	2.625	1.5	40.8
850-124-48	8.5	3.875	1.5	50.0
900-58-48	9	1.813	1.5	32.0
900-60-48	9	1.875	1.5	32.9
900-72-48	9	2.25	1.5	39.4
900-112-48	9	3.5	1.5	61.3
950-52-188	9.5	1.625	5.875	20.2
950-54-48	9.5	1.688	1.5	33.1
950-60-188	9.5	1.875	5.875	23.3
950-60-48	9.5	1.875	1.5	36.8
950-66-48	9.5	2.063	1.5	40.4
950-70-188	9.5	2.219	5.875	27.5
950-70-48	9.5	2.188	1.5	44.0
950-74-188	9.5	2.313	5.875	28.7
950-74-48	9.5	2.313	1.5	45.3
950-78-188	9.5	2.438	5.875	30.3
950-78-48	9.5	2.438	1.5	49.0
950-80-48	9.5	2.5	1.5	49.0
950-82-188	9.5	2.563	5.875	31.8
950-82-48	9.5	2.563	1.5	50.2
950-86-188	9.5	2.689	5.875	33.4
950-86-48	9.5	2.689	1.5	54.0
950-88-48	9.5	2.75	1.5	53.9
950-96-48	v	3	1.5	58.7
100-80-48	10	2.5	1.5	54.4
100-100-48	10	3.125	1.5	68.0
100-116-48	10	3.625	1.5	78.8
100-124-48	10	3.875	1.5	84.3
105-56-200	10.5	1.75	6.25	27.8
105-58-200	10.5	1.813	6.25	28.7
105-100-200	10.5	3.125	6.25	49.6
105-106-200	10.5	3.313	6.25	52.5
110-128-48	11	4	1.5	105.7



Custom Capabilities
Forgings & Castings

Forgings

Know how garnered over many decades provides unsurpassed benefit for the industrial user of custom forgings. This includes all phases in the forging process - die design and engineering, forging, coining, heat treating, and polishing.

Hammers ranging in size from 1,000 to 5,000 pounds produce finished pa ts from a few ounces to 50 pounds. Various alloys, considerable capacity, and secondary machining capability enable Martin to deliver near 100% density requirements in a cost effective manner.

Application: Counter weight on unit handling equipment.

Problem: Parts were being milled in-house from purchased burned plate. Process was expensive, but low volumes had prevented consideration of alternate methods of manufacture.

Solution: Instead of utilizating their expensive CNC milling equipment on relatively low-tech part, Martin designed a simple die for a forged part, which worked well for medium quantity production runs. When compared to sourcing costs, production time, and scrap, the forged part was less expensive than the milled part. The real savings has resulted from the enhanced utilization of the CNC milling equipment for other, more profitable work.





One of the many hammers capable of producing forgings up to 50 lbs.



Castings

Operating its own foundry enables Martin to provide its customers with quality assurance, quick lead times, and application engineering assistance on cast and ductile iron parts.

With an upper range of 96" in diameter and 10,000 pounds, our own pattern shop, and streamlined access to secondary machining, Martin's comprehensive capabilities serve a broad spectrum of industrial uses.

Application: Conveyor.

Problem: Redesign of equipment required flywheel and ynchronous drive to be used in more compact area. The two separate components had clearance problems.

Solution: Martin designed a one piece casting which allowed machining of a duplex drive to fit in tight area. Equipment is more compact, one final part rather than two saves costs, and installation time is reduced.

Sintered Metal

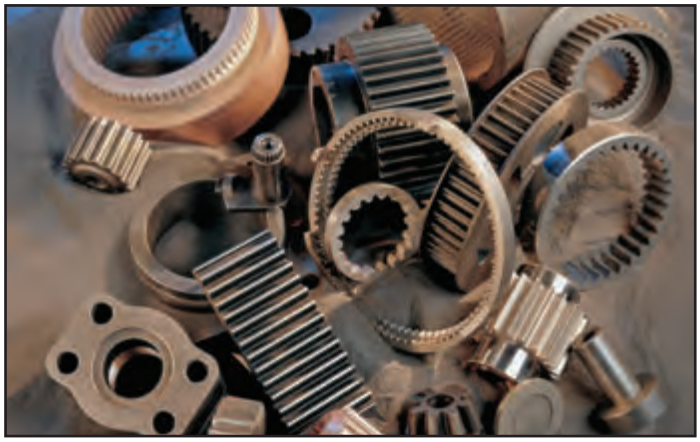
Commonly associated with large quantity runs of fairly simple products, the sintered metal process also effectively addresses small quantities for many complex and multi-level parts where intricate machining or milling would be required. Smooth surface finishe , self-lubrication, and tolerance repeatability are just a few of the attributes intrinsic to this technology. Using a wide range of alloys, Martin produces custom sintered parts for many industries and applications.

Application: Timing plate on an agricultural implement.

Problem: Production of parts required several steps. Purchase of disc blanks... Initial rough machining... Drilling holes... Milling slots and teeth... Application of rust inhibitor... Use of several outside sources.

All these factors led to inconsistent tolerances, difficulty in coordination of lead times, scrapped parts and production interruptions .

Solution: Martin reviewed sample parts and prints. Martin met with OEM engineering and service personnel to better understand the application. Martin developed a sintered component that reduced the total cost of each part by an average of 54%, slashed acquisition costs and allowed for deliveries using staged release dates. The real savings has resulted from the enhanced utilization of the CNC milling equipment for other, more profitable work.





Sintered metal is an excellent choice for a wide variety of products, especially those with irregular shapes that would be difficult to manufacture using conventional methods.



Presses delivering more than 880 tons of pressure form parts from bronze, iron, copper, manganese, etc.

Custom Capabilities
Injection Molding



One of the many injection molding machines used to manufacture a variety of products.



Martin manufactures plastic products for both power transmission and non-power transmission applications.

Injection Molding

Since the inception of our line of injection molded plastic components, Martin has emerged as a leading supplier of cost effective non-metallic products.

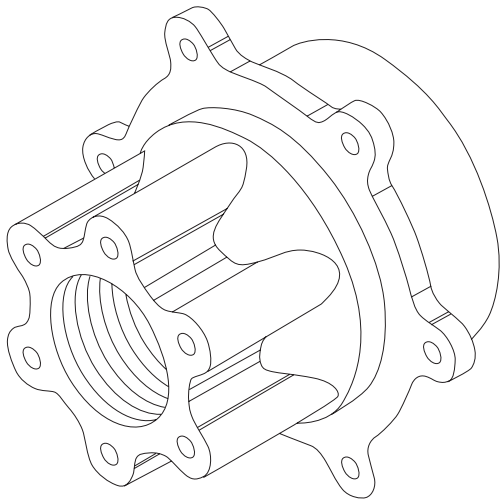
A combination of polymers is used to achieve desired wear, corrosion resistance, and color characteristics. Injection molded plastic is also advantageous in non-sparking and sanitary applications.

While the final orm of most components is achieved directly from the press, Martin is able to perform secondary machining on molded parts if necessary.

Application: Packaging equipment.

Problem: A sticky product required cleaning with a caustic solution which led to corrosion based fatigue of a threaded collar. In addition, high maintenance costs in the field were encountered due to difficulty of replacing the seized collar.

Solution: A Martin manufactured part made of glass filled nylon was produced. The Martin part withstood constant exposure to the caustic solution and prevented the seizing of threads which provided a longer part life. Unit price was reduced by approximately 34%, warranty claims dropped significant y and the user logo stamped on the part aided in capturing replacement part sales.



For more information on our custom capabilities, please call Martin.

INTERCHANGEABLE BUSHINGS

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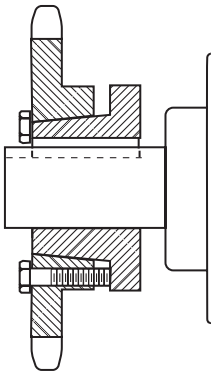
IDLER BUSHINGS: QD, MST® B-16

Stock QD Bushings

Martin MOUNTING PROCEDURE – QD BUSHINGS

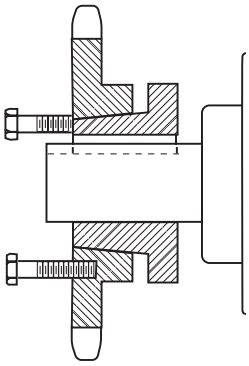
IMPORTANT – BE SURE TAPERED CONE SURFACES OF QD BUSHING AND INSIDE OF SHEAVE OR SPROCKET HUB ARE DRY AND FREE OF ALL FOREIGN SUBSTANCES SUCH AS PAINT, GREASE, OR DIRT.

STANDARD MOUNTING ASSEMBLY FOR QD SHEAVES AND SPROCKETS



MOUNTING

1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Slide QD bushing on shaft, flange end first. Assemble key.
3. Position QD bushing on shaft. Tighten set screw over key "hand tight" with standard Allen wrench only. Do not use excessive force.
4. Slide large end of sheave or sprocket taper bore into position over cone aligning drilled bolt holes in sheave or sprocket with tapped holes in flange of bushing. Assemble pull-up bolts and lock washers.
   NOTE: Install M thru S bushings in the hub so that the two extra holes in the hub are located as far as possible from the bushing's saw cut.
5. Tighten pull-up bolts alternately and evenly to tightness indicated in torque table on back. Do not use extensions on wrench handles. There should be a gap between the face of the sheave or sprocket hub and the flange of the QD bushing to insure a satisfactory cone grip and press fit.
   CAUTION: THIS GAP MUST NOT BE CLOSED.



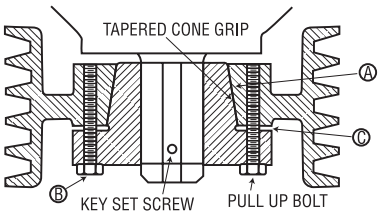
DISMOUNTING

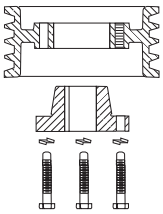
1. Remove pull-up bolts and screw them into TAPPED holes in sheave or sprocket and against flange of QD bushing to break cone grip.
1. Loosen set screw and slide QD bushing from shaft.

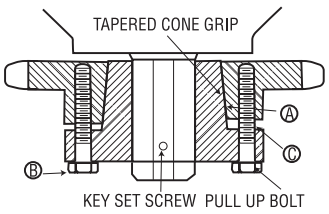
WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

REVERSE Mounting Assembly
FOR QD SHEAVES AND SPROCKETS USING JA, SH, SD, SDS, SK, SF, E, F, AND J BUSHINGS

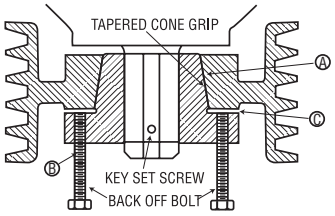
These bushings, as well as the sprockets and sheaves for them, are each drilled with six holes (three drilled and three tapped) to allow pull-up bolts to be inserted from either side. This enables variations of mounting characteristics to suit a particular installation.

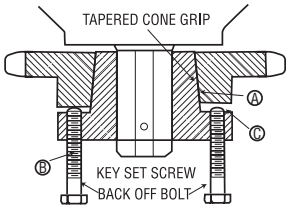






1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Assemble sheave or sprocket with bolts inserted (But not tightened) through DRILLED holes in bushing flange into TAPPED holes in sheave, sprocket, or other Martin QD part.
3. With key in shaft keyseat, slide assembly into approximate position on shaft with flange end of bushing away from bearing.
4. Position QD bushing on shaft by tightening set screw over key "hand tight" with standard Allen wrench only. Do not use excessive force.
5. Tighten pull-up bolts alternately and evenly to tightness indicated in torque table below. Do not use extensions on wrench handles. There should be a gap between the face of the sheave or sprocket hub and the flange of the QD bushing to insure a satisfactory cone grip and press fit. CAUTION: THIS GAP MUST NOT BE CLOSED.





1. Remove pull-up bolts and screw them into TAPPED holes in bushing flange and against hub of sheave or sprocket to break cone grip.
2. Loosen set screw in bushing flange and slide QD bushing from shaft.

CAUTION

WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACES OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVES AND SPROCKETS. THIS VOIDS ALL MANUFACTURER'S WARRANTIES.

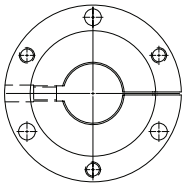
BOLT TORQUE TABLE

QD Bushing Size	Size of Cap Screw	Wrench Torque in./lb.
JA	10 – 24	60
SH, SDS, SD	.25 – 20	108
SK	.3125 – 18	180
SF	.375 – 16	360
E	.5 – 13	720
F	.5625 – 12	900
J	.625 – 11	1620
M	.75 – 10	2700
N	.875 – 9	3600
P	1 – 8	5400
W	1.125 – 7	7200
S	1.125 – 7	9000

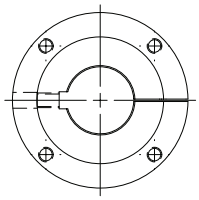
All Steel QD Bushings

★**F** = Length of Mating Bore

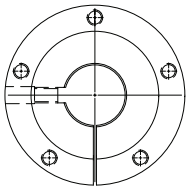
★★**G** = Gap Between QD Bushing and Mating Hub



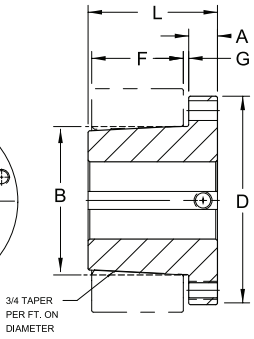
Bushings:
"JA" to "J" inclusive



Bushings:
"M" to "W" inclusive



Bushing:
"S"



Bushing	Dimensions (Inches)								Screws Required	Stock Bore Range			Average Weight (Approx.)
	A	B	D	E	★F	★★G	L	Cap Bolt Circle		Min.	Maximum		
											Standard Keyway	Shallow Keyway	
SF-STL	.563	3.125	4.625	1.5	1.25	.125	2.063	3.875	3.375 × 2	.5	2.313	2.813	3.0
E-STL	.75	3.834	6	1.875	1.625	.125	2.625	5	3.5 × 2.75	.875	2.875	3.5	10.0
F-STL	.813	4.437	6.625	2.813	2.5	.188	3.625	5.625	3.563 × 3.625	1	3.313	4	11.5
J-STL	1	5.148	7.25	3.5	3.188	.188	4.5	6.25	3.625 × 4.5	1.438	3.75	4.5	18.0
M-STL	1.25	6.5	9	5.5	5.188	.188	6.75	7.875	4.75 × 6.75	2	4.75	5.5	37.0
N-STL	1.5	7	10	6.625	6.25	.438	8.125	8.5	4.875 × 8.5	2.5	5.125	5.875	57.0

Bushing	Bores	Keyway
SF-STL	2.375 – 2.563	.625 × .188
	2.625 – 2.75	.625 × .063
	2.813 – 2.875	.75 × .063
	2.938	.75 × .031
	.875 – 2.875	STD.
E-STL	2.938 – 3.25	.75 × .125
	3.313 – 3.5	.875 × .063
F-STL	1 – 3.313	STD.
	3.375 – 3.75	.875 × .188
	3.875 – 3.938	1 × .125
	4	NONE
J-STL	3.438 – 3.75	STD.
	3.813 – 4.5	1 × .125
	2 – 4.75	STD.
M-STL	4.813 – 5.5	1.25 × .25
	2.5 – 5.125	STD.
N-STL	5.188 – 5.5	1.25 × .25
	5.563 – 5.875	1.5 × .25

Bushing	Plain Bores Not Split
SH-STL	.5
SD-STL	.5
SK-STL	.5
SF-STL	1.938
E-STL	.875 – 1.938
F-STL	1 – 2.438 – 2.938
J-STL	1.438 – 2.938
M-STL	2 – 2.938
N-STL	2.438 – 4.938

Shallow Key Dimension — Standard			
Keyset	Key	Keyset	Key
.25 × .031	.25 × .156	.75 × .125	.75 × .5
.25 × .063	.25 × .188	.875 × .063	.875 × .5
.375 × .031	.375 × .219	.875 × .188	.875 × .625
.375 × .063	.375 × .25	1 × .125	1 × .625
.375 × .125	.375 × .313	1.25 × .25	1.25 × .875
.5 × .031	.5 × .281	1.5 × .125	1.5 × .875
.5 × .063	.5 × .313	1.5 × .25	1.5 × 1
.5 × .125	.5 × .375	1.75 × .125	1.75 × .75
.625 × .063	.625 × .375	1.75 × .25	1.75 × .875
.75 × .063	.75 × .438	2 × .25	2 × 1

Shallow Key Dimension — Steel			
Keyset	Key	Keyset	Key
.25 × .031	.25 × .156	.75 × .063	.75 × .438
.25 × .063	.25 × .188	.75 × .125	.75 × .5
.375 × .031	.375 × .219	.875 × .063	.875 × .5
.375 × .063	.375 × .25	.875 × .188	.875 × .625
.375 × .125	.375 × .313	1 × .125	1 × .625
.5 × .031	.5 × .094	1.25 × .25	1.25 × .875
.5 × .063	.5 × .313	1.5 × .25	1.5 × 1
.5 × .125	.5 × .375	1.75 × .125	1.75 × .75
.625 × .063	.625 × .375	1.75 × .375	1.75 × 1
.625 × .188	.625 × .5	2 × .25	2 × 1

Shallow Key Dimension — Standard		
Bores	Keyset	Key
.875	.188 × .094	.188 × .188
.938 – 1.25	.25 × .125	.25 × .25
1.313 – 1.375	.313 × .156	.313 × .313
1.438 – 1.75	.375 × .188	.375 × .375
1.813 – 2.25	.5 × .25	.5 × .5
2.313 – 2.75	.625 × .313	.625 × .625
2.813 – 3.25	.75 × .375	.75 × .75
3.313 – 3.75	.875 × .438	.875 × .875
3.813 – 4.5	1 × .5	1 × 1
4.563 – 5.5	1.25 × .625	1.25 × 1.25
5.563 – 6.5	1.5 × .75	1.5 × 1.5
6.563 – 7.5	1.75 × .75	1.75 × 1.5
7.563 – 9	2 × .75	2.5 × 1.5
9.063 – 11	2.5 × .875	—
1.688 – 13	3 × 1	—

Reborable QD bushings made of Stainless Steel are available in many sizes. Non stock sizes are available on MTO basis.

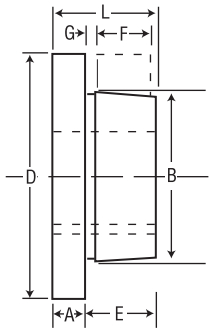
Standard QD Bushings

Bushing	Dimensions (Inches)								Cap Screws Required	Stock Bore Range			Set Screw Size	Average Weight (lb)
	A	B	D	E	F	G	L	Bolt Circle		Minimum	Maximum Standard Keyway	Maximum Shallow Keyway		
JA	.375	1.375	2	.688	.563	.125	1	1.665	3 – 10 × 1	.375	1	1.25	10 – 24	0.9
SH	.438	1.871	2.688	.875	.813	.125	1.25	2.25	3 – .25 × 1.375	.5	1.375	1.688	.25 – 20	1.0
SDS	.5	2.187	3.188	.875	.75	.125	1.375	2.688	3 – .25 × 1.375	.5	1.688	2	.25 – 20	1.0
SD	.5	2.187	3.188	.938	1.25	.125	1.813	2.688	3 – .25 × 1.875	.5	1.688	1.938	.25 – 20	1.5
SK	.563	2.812	3.875	1.375	1.25	.125	1.125	3.313	3 – .313 × 2	.5	2.125	2.5	.313 – 18	2.0
SF	.563	3.125	4.625	1.5	1.25	.125	2	3.875	3 – .375 × 2	.5	2.313	2.316	.313 – 18	3.0
E	.75	3.834	6	1.875	1.625	.125	2.625	5	3 – .5 × 2.75	.875	2.875	3.5	.375 – 16	10.0
F	.813	4.437	6.625	2.813	2.5	.188	3.625	5.625	3 – .563 × 3.625	1	3.313	3.938	.5 – 13	11.5
J	1	5.148	7.25	3.5	3.188	.188	4.5	6.25	3 – .625 × 4.5	1.438	3.75	4.5	.625 – 11	18.0
M	1.25	6.5	9	5.5	5.188	.188	6.75	7.875	4 – .75 × 6.75	1.938	4.75	5.5	.75 – 10	37.0
N	1.5	7	10.25	6.625	6.25	.25	8.125	8.5	4 – .875 × 8.5	2.438	5.125	6	.75 – 10	57.0
P	1.75	8.25	11.75	7.625	7.25	.25	9.375	10	4 – 1 × 9.5	2.938	5.938	7	.875 – 9	120.0
W	2	10.437	15	9.375	9	.25	11.375	12.75	4 – 1.125 × 11.5	4	7.5	8.5	1 – 8	250.0
S	3.25	12.125	17.75	12.5	–	.375	15.75	15	5 – 1.25 × 15.5	6	8.25	10	1.25 – 7	400.0

Inch Bore

Bushing	Bores	Keyway
JA	.375 – .438 .5 – 1 1.063 – 1.125 .813 1.25	NO K.W. STD. .25 – .063 .25 – .063 NO K.W.
SH	.5 – 1.375 1.438 – 1.5 1.563 – 1.625 1.688	STD .375 × .063 .375 × .063 NO K.W.
SDS	.5 – 1.688 1.75 1.813 1.875 – 1.938 2	STD. .375 × .125 .5 × .125 .5 × .063 NO K.W.
SD	.5 – 1.688 1.75 1.813 1.875 1.938 2	STD. .375 × .125 .5 × .125 .5 × .063 .5 × .063 NO K.W.
SK	.5 – 2.125 2.188 – 2.25 2.313 – 2.5 2.563 – 2.625	STD. .5 × .125 .625 × .063 NO K.W.
SF	.5 – 2.25 2.313 – 2.5 2.563 – 2.75 2.813 – 2.875 2.938	STD. .625 × .188 .625 × .063 .75 × .063 .75 × .031
E	.875 – 2.875 2.938 – 3.25 3.375 – 3.5 3.313	STD. .75 × .125 .875 × .063 .875 × .125
F	1 – 3.313 3.375 – 3.75 3.875 – 3.938 4	STD. .875 × .188 1 × .125 NONE
J	1.25 – 3.75 3.813 – 4.5	STD. 1 × .125
M	2 – 4.75 4.813 – 5.5	STD. 1.25 × .25
N	2.438 – 5 5.125 – 5.5 5.563 – 6	STD. 1.25 × .25 1.5 × .25
P	2.938 – 5.938 6 – 6.5 6.563 – 7	STD. 1.5 × .25 1.75 × .125
W	4 – 7.5 7.563 – 8.5	STD. 2 × .25

Keystock provided for nonstandard keyways.



★ Important — The metric system does not refer to keyseat or keyway dimensions as does the English system; instead, dimensions are given for the key itself which is rectangular in shape, not square as in the English system.

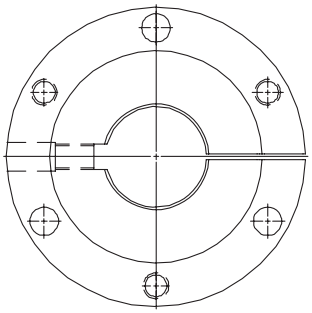
NOTE:
.03937" = 1mm
Ex—24 mm = 0.94488"

TO ORDER:
SH 24 mm

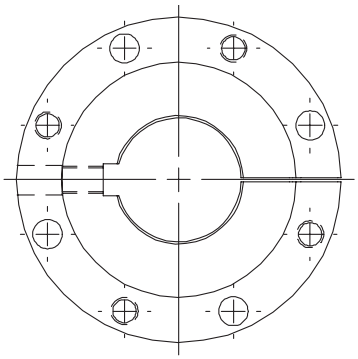
Millimeter Bore

Bushing	Bores MM	Key Stock Size ★ w × t
SH	24, 25, 28, 30 32, 35	8 × 7 10 × 8
SDS	24, 25, 28, 30 32, 35, 38 40, 42	8 × 7 10 × 8 12 × 8
SD	24, 25, 28, 30 32, 35, 38 40, 42	8 × 7 10 × 8 12 × 8
SK	24, 25, 28, 30 32, 35, 38 40, 42 48, 50 55	8 × 7 10 × 8 12 × 8 14 × 9 16 × 10
SF	28, 30 32, 35, 38 40, 42 48, 50 55 60	8 × 7 10 × 8 12 × 8 14 × 9 16 × 10 18 × 11
E	35, 38 40, 42 48, 50 55 60, 65 70, 75	10 × 8 12 × 8 14 × 9 16 × 10 18 × 11 20 × 12
F	48, 50 55 60, 65 70, 75 80, 85 90	14 × 9 16 × 10 18 × 11 20 × 12 22 × 14 25 × 14
J	50 55 60, 65 70, 75 80, 85 90, 95 100	14 × 9 16 × 10 18 × 11 20 × 12 22 × 14 25 × 14 28 × 16

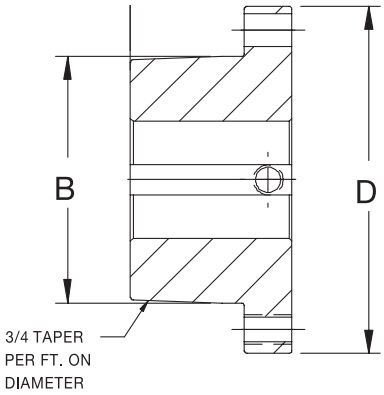
QD Short Bushings



Bushings:
JS



Bushings:
MS to WS inclusive



Inch Bore

Bushing	Bores	Keyway	Weight lb (approx)
JS	2.438 2.938	.625 × .313 .75 × .375	19 17
	3.438 3.5	.875 × .438	15 15
	3.938 4.438	1 × .125	13 10
MS	3.438 3.5	.875 × .438	38 37
	3.938 4.438	1 × .5	34 30
	4.938 5.438 5.5	1.25 × .25	26 21 20
NS	3.938 4.438	1 × .5	54 49
	4.938	1.25 × .625	43
	5.438 5.5	1.25 × .25	38 37
	5.938 6	1.5 × .25	31 30
PS	4.938 5.438	1.25 × .625	76 70
	5.938	1.5 × .75	62
	6 6.438 6.5	1.5 × .25	62 55 54
	6.938 7	1.75 × .125	47 45
WS	5.438	1.25 × .625	154
	515/16 6 6.438 6.5	1.5 × .75	145 144 136 135
	6.938 7 7.5	1.75 × .75	126 125 114
	7.938 8 8.438 8.5	2 × .25	106 105 94 93



Martin QD Short Bushings are suitable for use in belt conveyor applications wherever the short hubs of a conveyor pulley require the QD Short Bushing style.

Millimeter Bore

Bushing	Dimensions (Inches)						Cap Screws Required	Set Screw Size
	A	B	D	E	L	Bolt Circle		
JS	1	5.148	7.25	2.38	3.38	6.25	.625 × 2.5 (3)	.625
MS	1.19	6.5	9	3.62	4.81	7.88	.75 × 3 (4)	.75
NS	1.5	70	10	4.5	6	8.5	.875 × 3.5 (4)	.75
PS	1.5	8.25	11.75	5	6.5	10	1 × 4 (4)	.875
WS	1.75	10.437	15	5.5	7.25	12.75	1.125 × 5 (4)	1

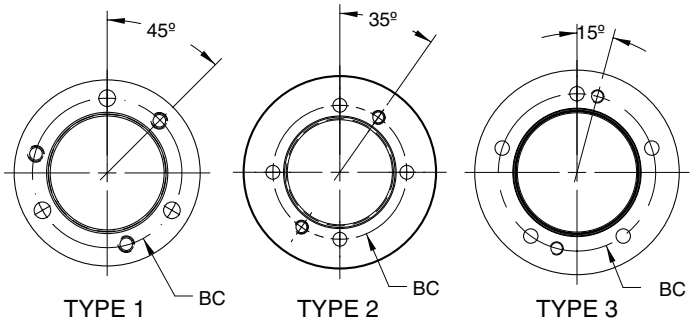
QD and QD Short Weld-On Hubs

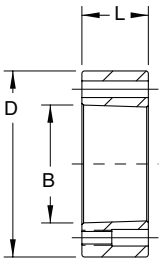
QD Weld-On Hubs

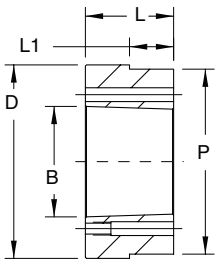
Martin QD Weld-On Hubs are suitable for use in many applications, such as welding to plate steel sprockets.

QD Weld-On Hubs are made of steel, drilled, tapped and taper bored for QD bushings







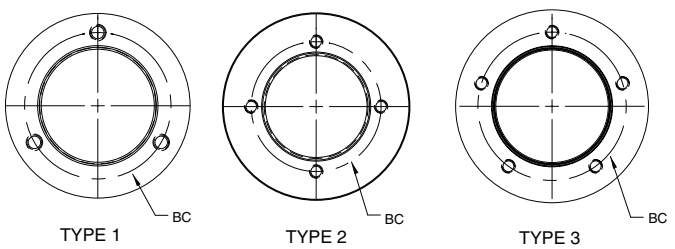


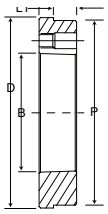
Catalog Number	Dimensions (Inches)						Type Drilling	Weight (lb)	Mounting
	D ★	L	B (nom)	P	L_1	BC			
JA-A	2.25	.563	1.37	—	—	1-21/32	1	0.4	STD or Reverse Mount
SH-A	3	.813	1.87	—	—	2.25	1	1.0	
SDS-A	3.5	.75	2.18	—	—	2.688	1	1.2	
SK-A	4.375	1.25	2.81	—	—	3.313	1	3.0	
SF-A	5	1.25	3.12	—	—	3.875	1	4.0	
E-A	6.25	1.625	3.83	—	—	5	1	9.0	
F-A	7	2.5	4.44	—	—	5.625	1	16.0	
J-A	7.75	3.188	5.14	—	—	6.25	1	22.5	
M-A	9.5	5.188	6.49	9.25	3.563	7.875	2	50.0	STD Mount Only
N-A	10.5	6.25	6.99	10.25	4.5	8.5	2	75.0	
P-A	13	7.25	8.24	—	—	10	2	155.0	
W-A	15.5	9	10.43	—	—	12.75	2	300.0	
S-A	19.5	12	12.12	18.75	7.5	15	3	558.0	

★ Tolerance of D Dimension (or P dimension where applicable) JA-A Thru J-A = (+-.002) M-A Thru S-A = (+-.003)

QD Short Weld-On Hubs

Martin QD Short Weld-On Hubs are designed for use in conveyor pulleys.

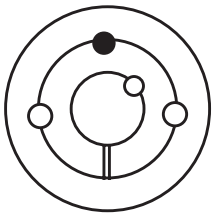




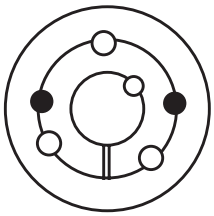
Catalog Number	Dimensions (Inches)						Type Drilling	Weight (lb)	Mounting
	D	L	B (nom)	P ★	L_1	BC			
SFS-A	5	1	3.12	4.75	.563	3.875	1	3.0	Reverse Mount Only
ES-A	6.25	1.125	3.83	6	.625	5	1	5.5	
FS-A	7	1.25	4.44	6.75	1.063	5.625	1	7.4	
JS-A	8.25	1.625	5.14	8	1	6.25	1	13.8	
MS-A	9.5	2.375	6.49	9.25	1.625	7.875	2	22.9	
NS-A	10.25	2.375	6.99	10	1.563	8.5	2	26.8	
PS-A	12.25	2.875	8.24	12	2	10	2	47.9	
WS-A	15.25	3.375	10.43	14.875	2.438	12.75	2	84.2	
SS-A	17.5	3.875	12.12	17	2.75	15	3	121.8	

★ Tolerance of P Dimension SFS-A Thru MS-A = (+-.004) NS-A Thru PS-A = (+-.005) WS-A Thru SS-A = (+-.006)

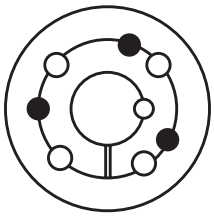
Taper Bushing Installation



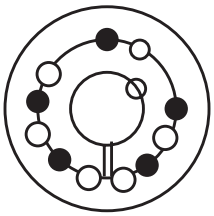
1008 to 3030



3535 to 6050



7060 to 10085



102100

INSTALLATION

1. Clean all oil, dirt, and paint from shaft, bushing bore, outside of bushing and component (sprocket, sheave...etc.) bore.
2. Insert bushing into component. Match the hole pattern, not the threaded holes (each hole will be threaded on one side only.)
3. Thread set or cap screws into those half threaded holes indicated by ❍ on above diagram. Mount assembly on shaft.
4. Alternately torque set or cap screws* to recommended torque setting in chart below.
5. On 3535 and larger bushings use a block, sleeve or drift and hammer large end of bushing (do not hammer bushing directly).
6. Repeat steps 4 and 5 until torque wrench reading, after hammering, is the same as before hammering.
7. Fill all unoccupied holes with grease.

REMOVAL

1. Remove all set or cap screws.
2. Insert set or cap screws in holes indicated by ● on drawing. Loosen bushing by alternately tightening set or cap screws.
3. To reinstall, complete all seven (7) installation instructions.

RECOMMENDED TORQUE		
Bushing No.	**Set or Cap Screw**	**Wrench Torque in/lb**
1008, 1108 1210, 1215, 1310 1610, 1615	.24 – 20 Socket Set Screw .375 – 16 Socket Set Screw .375 – 16 Socket Set Screw	55 175 175
2012 2317, 2525 3020, 3030	.438 – 14 Socket Set Screw .5 – 13 Socket Set Screw .625 – 11 Socket Set Screw	280 430 800
3535 4040 4545	.5 – 13 Socket Set Screw .625 – 11 Socket Set Screw .75 – 10 Socket Set Screw	1000 1700 2450
5050 6050, 7060, 8065 10085, 120100	.875 – 9 Socket Set Screw 1.25 – 7 Socket Set Screw 1.5 – 6 Socket Set Screw	3100 7820 13700

If two bushings are used on same component and shaft, fully tighten one bushing before working on the other

CAUTION

WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER'S WARRANTIES

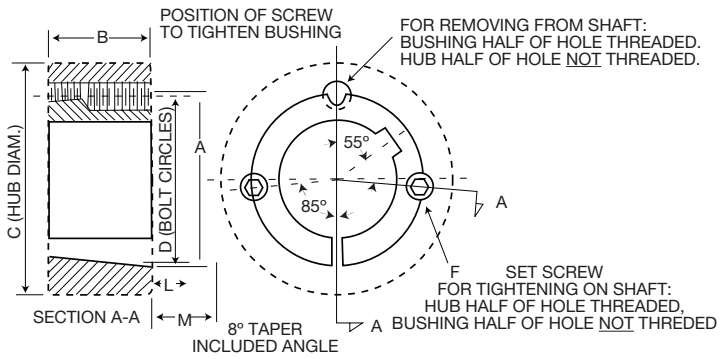
WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

Taper Bushings Dimensions

No. 1008 to 3030 Taper Bushings

Bushing Number	Bore	Wt. lb (appr)	Bushing Keyseat	Shaft Keyseat
1008	.5 to .563	.27	.125 × .063	.125 × .063
	.625 to .875	.21	.188 × .094	.188 × .094
	.938 to 1	.16	.25 × .063 ▼	.25 × .125
1108	.5 to .563	.33	.125 × .063	.125 × .063
	.625 to .875	.27	.188 × .094	.188 × .094
	.938 to 1	.22	.25 × .125	.25 × .125
	1.063 to 1.125	.17	.25 × .063 ▼	.25 × .125
1210	.5 to .563	.61	.125 × .063	.125 × .063
	.625 to .875	.55	.188 × .094	.188 × .094
	.938 to 1.25	.49	.25 × .125	.25 × .125
1215	.5 to .563	.8	.125 × .063	.125 × .063
	.625 to .875	.7	.188 × .094	.188 × .094
	.938 to 1.25	.6	.25 × .125	.25 × .125
1310	.5 to .563	.7	.125 × .063	.125 × .063
	.625 to .875	.7	.188 × .094	.188 × .094
	.938 to 1.25	.6	.25 × .125	.25 × .125
	1.313 to 1.375	.6	.313 × .156	.313 × .156
1610	.5 to .563	.9	.125 × .063	.125 × .063
	.625 to .875	.8	.188 .094	.188 .094
	.938 to 1.25	.7	.25 × .125	.25 × .125
	1.313 to 1.375	.7	.313 × .156	.313 × .156
	1.438 to 1.5	.6	.375 × .188	.375 × .188
	1.563 to 1.625	.5	.375 × .125 ▼	.375 × .188
1615	.5 to .563	1.2	.125 × .063	.125 × .063
	.625 to .875	1.1	.188 × .094	.188 × .094
	.938 to 1.25	1.0	.25 × .125	.25 × .125
	1.313 to 1.375	.8	.313 × .156	.313 × .156
	1.438 to 1.5	.7	.375 × .188	.375 × .188
	1.563 to 1.625	.6	.375 × .125 ▼	.375 × .188
2012	.5 to .563	1.7	.125 × .063	.125 × .063
	.625 to .875	1.6	.188 × .094	.188 × .094
	.938 to 1.25	1.5	.25 × .125 ▼	.25 × .125
	1.313 to 1.375	1.4	.313 × .156	.313 × .156
	1.438 to 1.75	1.2	.375 × .188	.375 × .188
	1.813 to 1.875	1.0	.5 × .25	.5 × .25
	1.938 to 2	1.0	.5 × .188 ▼	.5 × .25
2517	.5 to .563	3.5	.125 × .063	.125 × .063
	.625 to .875	3.4	.188 × .094	.188 × .094
	.938 to 1.25	3.3	.25 × .125	.25 × .125
	1.313 to 1.375	3.2	.313 × .156	.313 × .156
	1.438 to 1.75	3.0	.375 × .188	.375 × .188
	1.813 to 2.25	2.4	.5 × .25	.5 × .25
	2.313 to 2.5	1.9	.625 × .188 ▼	.625 × .313
2525	.75 to .875	4.9	.188 × .094	.188 × .094
	.938 to 1.25	4.7	.25 × .125	.25 × .125
	.938 to 1.375	4.5	.313 × .156	.313 × .156
	1.438 to 1.75	4.2	.375 × .188	.375 × .188
	1.813 to 2.25	3.3	.5 × .25	.5 × .25
	2.313 to 2.5	2.5	.625 × .188 ▼	.625 × .313
3020	.938 to 1.25	6.5	.25 × .125	.25 × .125
	1.313 to 1.375	6.3	.313 × .156	.313 × .156
	1.438 to 1.75	6.0	.375 × .188	.375 × .188
	1.813 to 2.25	5.3	.5 × .25	.5 × .25
	2.313 to 2.75	4.5	.625 × .313	.625 × .313
	2.813 to 3	3.9	.75 × .25 ▼	.75 × .375
3030	.938 to 1.25	9.2	.25 × .125	.25 × .125
	1.313 to 1.375	8.9	.313 × .156	.313 × .156
	1.438 to 1.75	8.6	.375 × .188	.375 × .188
	1.813 to 2.25	7.6	.5 × .25	.5 × .25
	2.313 to 2.75	6.2	.625 × .313	.625 × .313
	2.813 to 3	5.0	.75 × .25 ▼	.75 × .375





Dimensions

Bushing Number	A	B	C Ø			D	F †	L ★		M ★★	
			Class 20 Gray Iron	Class 30 Gray Iron	Steel			Standard Hex. Key	Short Key ‡	Standard Hex. Key	Short Key ‡
1008	1.386	.875	2.375	2.188	1.938	1.328	.25 × .5	1.125	.625	1.25	.75
1108	1.511	.875	2.5	2.313	2.063	1.453	.25 × .5	1.125	.625	1.25	.75
1210	1.875	1	3.625	3.25	2.875	1.75	.375 × .625	1.375	.813	1.625	1.063
1215	1.875	1.5	3.125	2.875	2.625	1.75	.375 × .625	1.375	.813	1.625	1.063
1310	2	1	3.75	3.375	3	1.875	.375 × .625	1.375	.813	1.625	1.063
1610	2.25	1	4	3.625	3.25	2.125	.375 × .625	1.375	.813	1.625	1.063
1615	2.25	1.5	3.5	3.25	3	2.125	.375 × .625	1.375	.813	1.625	1.063
2012	2.75	1.25	4.75	4.375	3.875	2.625	.438 × .875	1.563	.938	2	1.375
2517	3.375	1.75	5.5	4.875	4.375	3.25	.5 × 1	1.625	1	2.25	1.625
2525	3.375	2.5	4.75	4.5	4.25	3.25	.5 × 1	1.625	1	2.25	1.625
3020	4.25	2	7	6.25	5.625	4	.625 × 1.25	1.813	1.188	2.688	2.063
3030	4.25	3	6.25	5.75	5.375	4	.625 × 1.25	1.813	1.188	2.688	2.063

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

▼ Key furnished for these sizes only.

Ø For general reference. Severe conditions may require larger hub. Heavy well-located web may permit smaller hub. Hub diameter required depends on the particular application. Consult Martin giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

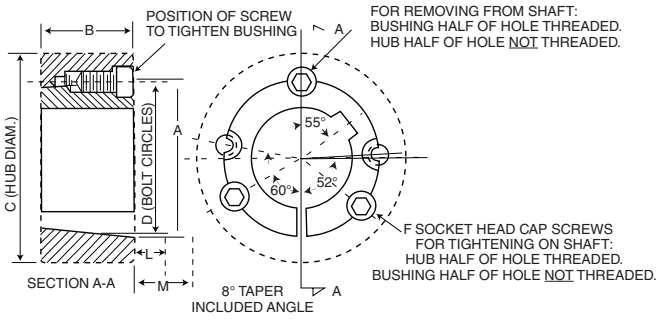
† 2 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use one of them in the other hole. Bushing price includes screws.

★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

★★ Space required to loosen bushing using one screw as jackscrew — no puller required.

‡ Standard hex key cut to minimum usable length.

Taper Bushings Dimensions



No. 3535 to 5050 Bushings

Bushing Number	Bore	Weight	Bushing Keyseat	Shaft Keyseat	A	B	C Ø			D	F †	G	R
							Class 20 Gray Iron	Class 30 Gray Iron	Steel				
3535	1.188 to 1.25	14	.25 × .125	.25 × .125	5	3.5	7.75	7	6.5	4.83	.5 × 1.5	39°	▲
	1.313 to 1.375	14	.313 × .156	.313 × .156									
	1.438 to 1.75	13	.375 × .188	.375 × .188									
	1.813 to 2.25	12	.5 × .25	.5 × .25									
	2.313 to 2.75	11	.625 × .313	.625 × .313									
	2.813 to 3.25	9	.75 × .375	.75 × .375									
	3.313 to 3.5	8	▼ .875 × .25	.875 × .438									
4040	1.438 to 1.75	22	.375 × .188	.375 × .188	5.75	4	9.5	8.5	7.75	5.54	.625 × 1.75	40°	▲
	1.813 to 2.25	21	.5 × .25	.5 × .25									
	2.313 to 2.75	19	.625 × .313	.625 × .313									
	2.813 to 3.25	17	.75 × .375	.75 × .375									
	3.313 to 3.625	15	.875 × .438	.875 × .438									
	3.688 to 3.75	14	▼ 1 × .25	.875 × .438									
	3.813 to 4	13	▼ 1 × .25	1 × .5									
4545	1.938 to 2.25	30	.5 × .25	.5 × .25	6.375	4.5	10.5	9.5	8.75	6.13	.75 × 2	40°	▲
	2.313 to 2.75	28	.625 × .313	.625 × .313									
	2.813 to 3.25	26	.75 × .375	.75 × .375									
	3.313 to 3.75	23	.875 × .438	.875 × .438									
	3.813 to 4.25	20	1 × .5	1 × .5									
	4.313 to 4.5	18	▼ 1 × .25	1 × .5									
5050	2.313 to 2.75	38	.625 × .313	.625 × .313	7	5	11.5	10.5	9.5	6.72	.875 × 2.25	37°	▲
	2.813 to 3.25	35	.75 × .375	.75 × .375									
	3.313 to 3.75	32	.875 × .438	.875 × .438									
	3.813 to 4.5	27	1 × .5	1 × .5									
	4.563 to 5	24	▼ 1.25 × .438	1.25 × .625									

No. 4030 to 5040 Short Taper Bushings

Bushing Number	Bore	Weight	Bushing Keyseat	Shaft Keyseat	A	B	C Ø			D	F †	G	R
							Class 20 Gray Iron	Class 30 Gray Iron	Steel				
4030	1.438 to 1.75	24	.375 × .188	.375 × .188	5.75	3	9.5	8.5	7.75	5.54	.625 × 1.75	39°	▲
	1.813 to 2.25	21	.5 × .25	.5 × .25									
	2.313 to 2.75	20	.625 × .313	.625 × .313									
	2.813 to 3.25	18	.75 × .375	.75 × .375									
	3.313 to 3.688	15	.875 × .438	.875 × .25									
	3.75	13	▼ .875 × .25	.875 × .438									
	3.813	13	1 × .5	1 × .5									
	3.875 to 4.438	13	1 × .25	1 × .5									
4535	1.938 to 2.25	31	.5 × .25	.5 × .25	6.375	3.5	10.5	9.5	8.75	6.13	.75 × 2	40°	▲
	2.313 to 2.75	29	.625 × .313	.625 × .313									
	2.813 to 3.25	25	.75 × .375	.75 × .375									
	3.313 to 3.688	23	.875 × .438	.875 × .438									
	3.813 to 4.25	20	1 × .5	1 × .5									
	4.375 to 4.5	17	▼ 1 × .25	1 × .5									
	4.75 to 4.938	15	▼ 1.25 × .25	1.25 × .625									
5040	2.438 to 2.75	40	.625 × .313	.625 × .313	7	4	11.5	10.5	9.5	6.72	.875 × 2.25	37°	▲
	2.813 to 3.25	37	.75 × .375	.75 × .375									
	3.313 to 3.75	33	.875 × .438	.875 × .438									
	3.813 to 4.5	29	1 × .5	1 × .5									
	4.75 to 5	23	▼ 1.25 × .25	1.25 × .625									

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

▼ Key furnished for these sizes only.

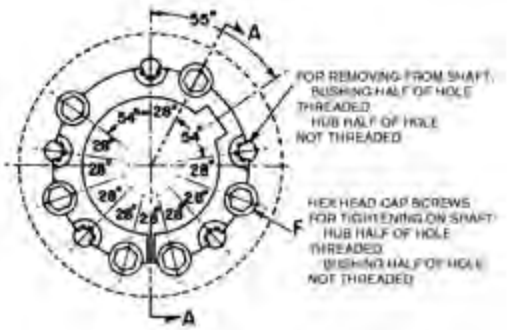
Ø For general reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the particular application. Consult factory giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

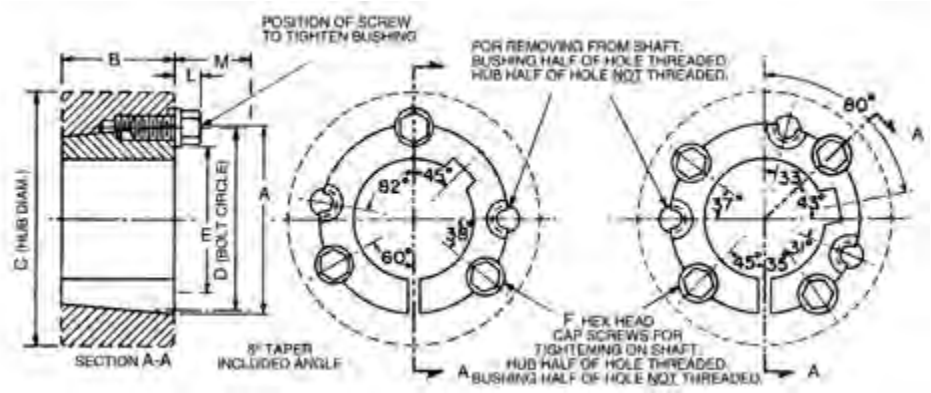
† 3 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use two of them in the other two holes. Bushing price includes screws. See following footnote.

▲ Provide sufficient space to tighten and loosen bushing. Width across flats of screw head is same as screw diameter which is shown in column F.

Taper Bushings Dimensions







No 6050 to 120100 Taper Bushings

Bushing Number	Bore	Weight	Bushing Keyseat	Shaft Keyseat	A	B	C Ø			D	E	F †	L ★	M ★★
							Class 20 Gray Iron	Class 30 Gray Iron	Steel					
6050	3.813 to 4.5	60	1 × .5	1 × .5	9.25	5	17	15.5	13.5	9	6.75	1.25 × 3.5	1.625	4.375
	49/16 to 5.5	55	1.25 × .625	1.25 × .625										
	5.563 to 6	50	1.5 × .75	1.5 × .75										
7060	4.563 to 5.5	85	1.25 × .625	1.25 × .625	10.25	6	18.5	17	14.75	10	7.75	1.25 × 3.5	1.625	4.375
	5.563 to 6.5	75	1.5 × .75	1.5 × .75										
	6.563 to 7	65	1.75 × .75	1.75 × .75										
Φ 8065	5.063 to 5.5	120	1.25 × .625	1.25 × .625	11.25	6.5	19	17.5	15.5	11	8.75	1.25 × 3.5	1.625	4.375
	5.563 to 6.5	105	1.5 × .75	1.5 × .75										
	6.563 to 7.5	90	1.75 × .75	1.75 × .75										
	7.563 to 8	75	2 × .75	2 × .75										
Φ 10085	6.563 to 7.5	260	1.75 × .75	1.75 × .75	14.75	8.5	23.5	22	19.5	14.5	11.75	1.5 × 4.25	2	5.375
	7.563 to 9	230	2 × .75	2 × .75										
	9.063 to 10	190	2.5 × .875	2.5 × .875										
Φ 120100	7.563 to 9	410	2 × .75	2 × .75	17.25	10	28	26	23	17	14.25	1.5 × 4.25	2	5.375
	9.063 to 11	360	2.5 × .875	2.5 × .875										
	11.063 to 12	290	3 × 1	3 × 1										

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult Martin.

Ø For general reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the particular application. Consult Martin giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

† 3 screws for 6050; four for 7060 to 10085; six for 120100. Use in positions shown for tightening bushing on shaft. In loosening bushing, remove screws and use all except one in the other holes. Bushing price includes screws.

★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

★★ Space required to loosen bushing using screws as jackscrews— no puller required.

Φ Not currently stocked — Available on order.

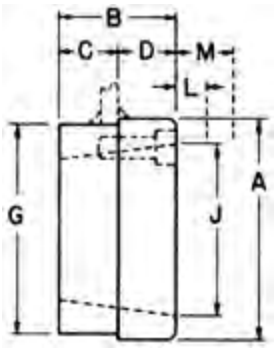
Taper Bushed Type S-Type W Weld-On Hubs Dimensions

Type S



Martin Taper Bushed Type S Weld-On Hubs are suitable for use in many applications such as for welding to plate steel sprockets. The outside diameters of these hubs have been reduced to a minimum. This is permissible because of the reinforcing strength of the items to which they are to be welded. Cases where the attached item is of small dimensions should be referred to Martin.

Type S Weld-On Hubs are made of steel, drilled, tapped, and taper bored for Tapered Bushings. Their small size and the convenience and advantages of Taper Bushed construction make them of great value on many devices for use on shafts.



Bushing Number	For Use with Bushing Number	Max. Bore of Bushing	Weight	A	B Φ	C ★★	D ▼	G	J
S16-4	1610	1.625	.9	3	1	.275	.725	2.875 †	2.25
S16-6	1610	1.625	.9	3	1	.450	.550	2.875 †	2.25
S20-6	2012	2	1.8	3.563	1.25	.450	.800	3.438 †	2.75
S20-8	2012	2	1.4	3.563	1.25	.570	.680	3.438 †	2.75
S25-6	2517	2.5	2.6	4.25	1.75	.450	1.300	4.125 †	3.375
S25-8	2517	2.5	2.6	4.25	1.75	.565	1.185	4.125 †	3.375
S25-10	2517	2.5	2.5	4.25	1.75	.685	1.065	4.125 †	3.375
S25-16	2517	2.5	2.4	4.25	1.75	1.090	.660	4.125 †	3.375
S30-10	3020	3	4.3	5.25	2	.675	1.325	5.125 †	4.25
S30-16	3020	3	4.2	5.25	2	1.090	.910	5.125 †	4.25
S35	3535	3.5	12.8	6.5	3.5	1.160	2.340	6.375 Ø	5

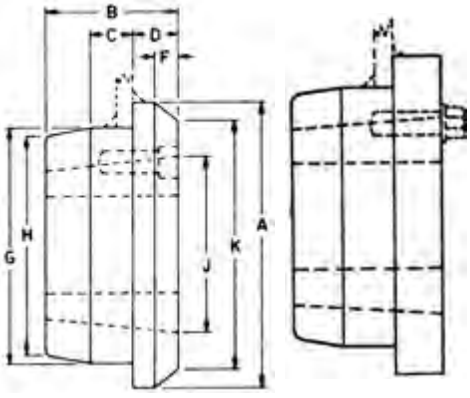
See dimension tables on preceding page for bushing data and wrench space required.

† + .000 - .002
Φ + .005 - .010
Ø + .001 - .003
▼ + .000 - .005
★★ + .010 - .010

Type WA



Type WA Weld-On Hubs are made of steel, drilled, tapped, and taper bored to receive Tapered Bushings. They are very useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, and many other devices which must be fi mly fastened to the shaft.



Bushing Number	For Use with Bushing Number	Max. Bore of Bushing	Weight	A	B	C	D	F	G	H	J	K
WA12	1215	1.25	1.3	2.875	1.5	.375	.625	.375	2.5 †	2.375	1.875	2.625
WA16	1615	1.625	1.5	3.25	1.5	.375	.625	.375	2.875 †	2.75	2.25	3
WA25	2517	2.5	4.0	4.875	1.75	.5	.75	.375	4.375 †	4.25	3.375	4.625
WA30	3030	3	8.6	5.5	3	.75	.75	.25	5.125 †	4.813	4.125	5
WA35	3535	3.5	15	6.75	3.5	1.25	1	.375	6.25 †	5.938	5	6
WA40	4040	4	29	7.75	4	1.5	1	.375	7.25 †	6.875	5.75	7
WA45	4545	4.5	42	8.75	4.5	1.75	1	.375	8 †	7.625	6.375	8
WA50	5050	5	57	9.5	5	1.75	1	.375	8.75 •	8.375	7	8.75
WA60	6050	6	115	13.25	5	1.75	1.25	–	12.25 ★	11.875	9.25	–
WA70	7060	7	155	14.5	6	2.25	1.25	–	13.5 ★	13.25	10.25	–
WA80	8065	8	180	15.25	6.5	2.25	1.25	–	14.25 ★	14	11.25	–
WA100	10085	10	340	19.75	8.5	3.5	1.5	–	18.75 ★	18.25	14.75	–

See dimension tables on preceeding page for bushing data and wrench space required.

† + .000 - .002
• + .000 - .003
★ + .000 - .004

Taper Bushings
Metric and Reborable

Stock Taper Bushings With Metric Bores and Keyways

★ Metric Bores	★ Metric Keyway	Taper Bushing Number			
14, 16	5 × 2.3	1008	1108	1210	
		1215	1610	1615	
18, 19	6 × 2.8	1008	1108	1210	1215
20, 22		1610	1615	2012	2517
24	8 × 3.3	1108	1210	1215	
		1610	1615	2012	2517
25	8 × 3.3	1210	1215	1610	
		1615	2012	2517	
28, 30	8 × 3.3	1210	1215	1610	
		1615	2012	2517	3020
32	10 × 3.3	1610	1615		
		2012	2517	3020	
35	10 × 3.3	1610	1615		
		2012	2517	3020	
38	10 × 3.3	1610	1615		
		2012	2517	3020	
40, 42	12 × 3.3	2012			
		2517	3020		
45, 48	14 × 3.8	2012			
		2517	3020		
50	14 × 3.8	2517	3020		
55	16 × 4.3	2517	3020		

★ Millimeter Bores and Keyways from ISO Std. R773. 1" = 25.4 millimeters

NOTE: For other metric bore sizes consult factory.

Stock Reborable Taper Bushings With No Keyways

Sintered Steel		Gray Iron		Steel		Stainless Steel	
1008	.563			1008	.5	1008	.5
1108	.5			1108	.5	1108	
1210	.563			1210	.5	1210	.5
1215	.5			1215	.5	1215	
1310	.5			1310		1310	
1610	.5 1.313			1610	.5	1610	.5
1615	.5 1.313			1615	.5	1615	
2012	.5			2012	.5	2012	.5
2517	.5 1.563			2517	.5	2517	.5
		2525	2.125	2525		2525	
3020	.938 1.688	3020	.938 1.438 2.938	3020	.938	3020	.938
		3030	.938 2.438 2.938	3030		3030	
		3535	1.188 2.438 2.938	3535		3535	
		4040	1.438 3.438 3.938	4040		4040	
		4545	3.938 4.438	4545		4545	
		5050	2.438 3.938				
		6050	3.438 5.438				
		7060	3.938				
		8065	4.438				
		10085	7				
		H120100	8				

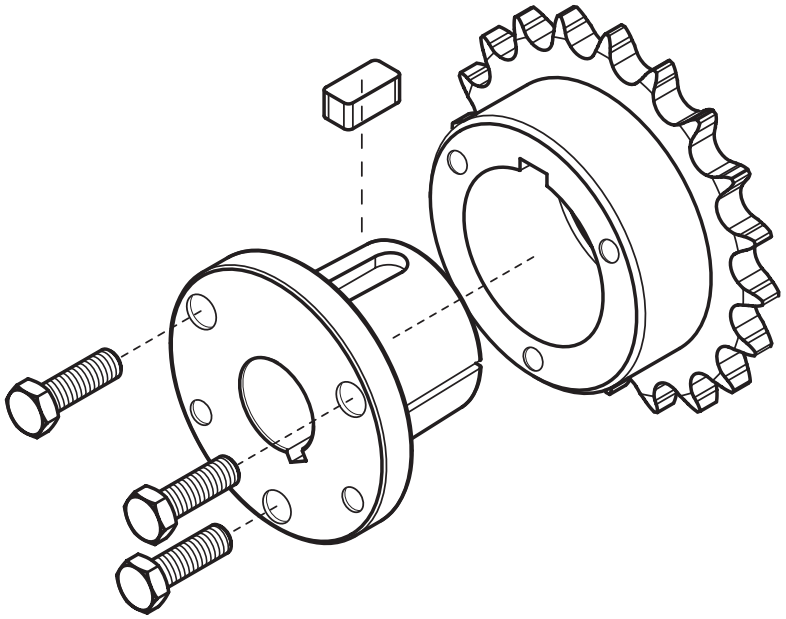
★ Not currently stocked. Consult factory for availability and pricing.

MST® BUSHINGS INSTRUCTIONS

The MST® bushings are easy to install and remove. They are split through the barrel and have a taper to provide a true clamp on the shaft. They are keyed to both the soft and the hub to help during "blind" installations.

INSTALLATION

1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and fee of anti-seize lubricants.
2. Place bushing in sprocket or other Martin MST® part.
3. Place cap screws loosely in pull-up holes. Bushing remains loose to assure sliding fit on shaft
4. With key on shaft, slide sprocket to desired position on shaft. Be sure heads of cap screws are accessible.
5. Align sprocket. Tighten screws alternately and progressively - until they are pulled up tight (see table below). Do not use extensions on wrench handles. Do not allow sprocket to be drawn in contact with flange of bushing. There should be a gap between bushing flange and sprocket. **CAUTION: THIS GAP MUST NOT BE CLOSED**



REMOVAL

1. Loosen and remove cap screws.
2. Insert cap screws in tampered removal holes.
3. Tighten inserted screws until sprocket is loose on shaft.
4. Remove sprocket from shaft.

WRENCH TORQUE VALUE FOR TIGHTENING BUSHING		
MST® Bushing Size	**Size of Cap Screw**	**Wrench Torque in/lb**
G	.25 × .625	95
H	.25 × .75	95
P	.313 × 1	192
Q	.375 × 1.25	348
R	.375 × 1.75	348
S	.5 × 2.25	840
U	.625 × 2.75	1680
W	.75 × 3	3000

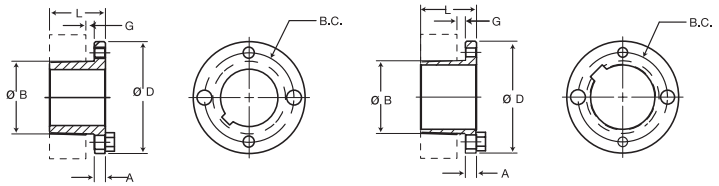
CAUTION

WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER'S WARRANTIES

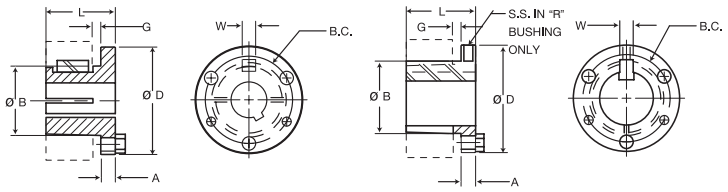
WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

MST® Bushings

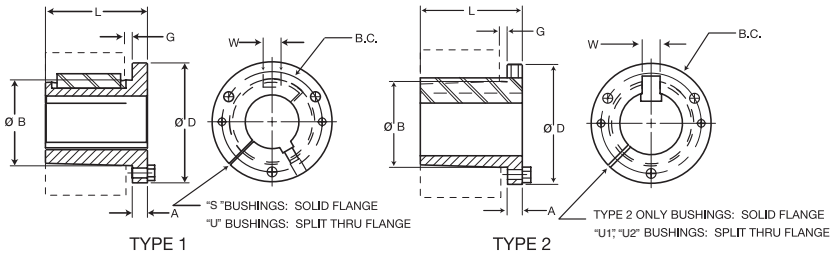




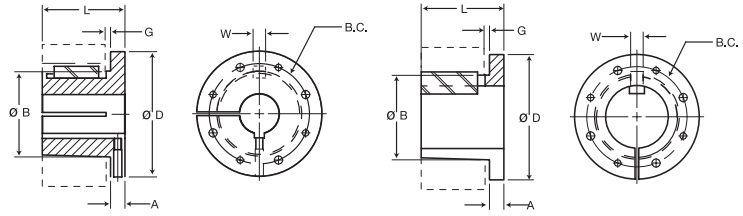
"G" & "H" BUSHINGS



"P", "Q" & "R" BUSHINGS



"S" & "U" BUSHINGS



"W" BUSHINGS

Bushing Specifications

Part Number	Dimensions							Stock Bore Range		Cap Screws		Av. Wt. Lb.	Wrench Torque In./lb.
	D	L	A	B Large End	G	B.C.	W	Type 1	Type 2	No.	Size		
G	2	1.00	.25	1.172	.19	1.56	—	.375 – .938	1	2	.25 × .625	.5	95
H	2.5	1.25	.25	1.625	.19	2	—	.375 – 1.375	1.438 – 1.5	2	.25 × .75	.8	95
P1	3	1.94	.41	1.938	.22	2.44	.375	.5 – 1.438	1.5 – 1.75	3	.313 × 1	1.3	192
P2	3	2.94	.41	1.938	.22	2.44	.375	.75 – 1.438	1.5 – 1.75	3	.313 × 1	1.5	192
P3	3	4.44	.41	1.938	.22	2.44	.375	1.125 – 1.375	1.625	3	.313 × 1	2.0	192
Q1	4.12	2.50	.53	2.875	.22	3.38	.5	.75 – 2.063	2.125 – 2.688	3	.375 × 1.25	3.5	348
Q2	4.12	3.50	.53	2.875	.22	3.38	.5	1 – 2.063	2.125 – 2.625	3	.375 × 1.25	4.5	348
Q3	4.12	5.00	.53	2.875	.22	3.38	.5	1.375 – 2.063	2.125 – 2.5	3	.375 × 1.25	5.5	348
R1	5.38	2.88	.62	4	.25	4.62	.75	1.125 – 2.813	2.875 – 3.75	3	.375 × 1.75	7.5	348
R2	5.38	4.88	.62	4	.25	4.62	.75	1.375 – 2.813	2.875 – 3.625	3	.375 × 1.75	11.0	348
S1	6.38	4.38	.75	4.625	.31	5.38	.75	1.688 – 3.188	3.25 – 4.25	3	.5 × 2.25	13.5	840
S2	6.38	6.75	.75	4.625	.31	5.38	.75	1.875 – 3.188	3.25 – 4.188	3	.5 × 2.25	19.0	840
UO	8.38	5.25	1.06	6	.44	7	1.25	2.375 – 3.063	—	3	.625 × 2.75	30.0	1680
UO	8.38	4.94	.75	6	.44	7	1.25	3.25 – 4.25	4.375 – 5.5	3	.625 × 2.75	27.0	1680
U1	8.38	7.12	1.06	6	.44	7	1.25	2.375 – 4.25	4.375 – 5.5	3	.625 × 2.75	40.0	1680
U2	8.38	10.12	1.06	6	.44	7	1.25	2.438 – 4.25	4.375 – 5	3	.625 × 2.75	50.0	1680
W1	12.5	8.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	104.0	3000
W2	12.5	11.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	133.0	3000

All tapers are .75" per 12" on Diameter.

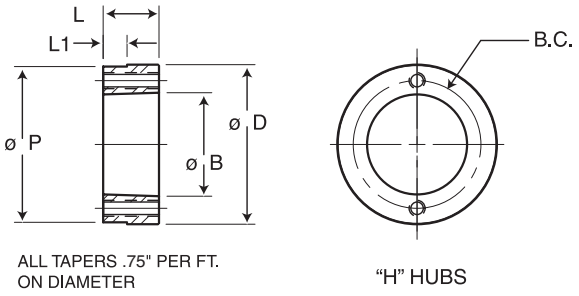
All dimensions are in inches except, as noted.

All bushings are cast iron, ductile iron, sintered steel, or steel. Consult manufacturer for clarificatio .

Metric bushings also available.

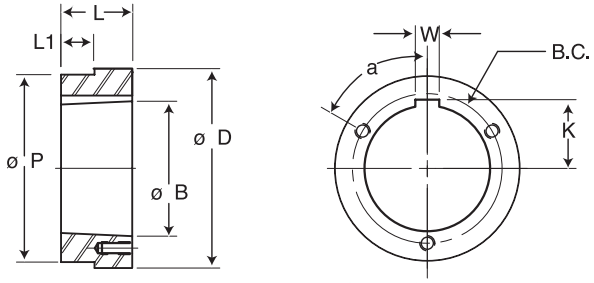
MST® Weld-On Hubs



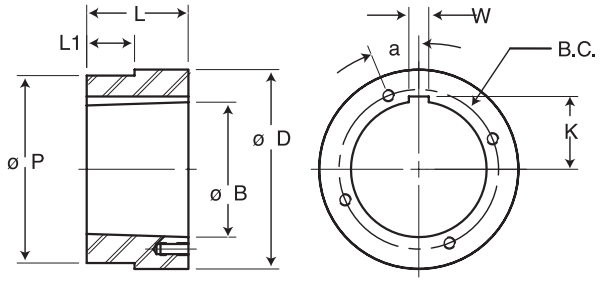


ALL TAPERS .75" PER FT.
ON DIAMETER

"H" HUBS



"P", "Q", "R", "S", Y "U" HUBS



"W" HUBS

Bushing Specifications

Part Number	For Bushing	Dimensions									Tapped Holes		Wt. Lb.
		D	L	P	L1	B	K	B.C.	W	a⁰	No.	Size	
HH1	H	2.5	.88	2.375	.174	1.621	—	2	—	—	2	.25 – 20	.6
HCH1	H	2.5	.88	2.375	.625	1.621	—	2	—	—	2	.25 – 20	.7
HP1	P1	3.0	1.31	2.875	.292	1.938	1.094	2.438	.375	60	3	.313 – 18	1.4
HCP1	P1	3.0	1.31	2.875	1	1.938	1.094	2.438	.375	60	3	.313 – 18	1.1
HP2	P2	3	2.31	2.875	1.1	1.938	1.094	2.438	.375	60	3	.313 – 18	2.5
HQ1	Q1	4.5	1.75	4.375	.709	2.875	1.562	3.375	.5	60	3	.375 – 16	4.4
HCQ1	Q1	4.5	1.75	4.375	1.25	2.875	1.562	3.375	.5	60	3	.375 – 16	4.4
HQ2	Q2	4.5	2.75	4.375	1.606	2.875	1.562	3.375	.5	60	3	.375 – 16	6.9
HR1	R1	5.75	2.00	5.625	.709	4	2.188	4.625	.75	60	3	.375 – 16	7.3
HR2	R2	5.75	4.00	5.625	1.606	4	2.188	4.625	.75	60	3	.375 – 16	15.4
HS1	S1	6.75	3.31	6.5	.946	4.625	2.562	5.375	.75	60	3	.5 – 13	17.3
HS2	S2	6.75	5.69	6.5	2.963	4.625	2.562	5.375	.75	60	3	.5 – 13	30.4
HU0	UO	8.5	3.75	8.25	2	6	3.25	7	1.25	60	3	.625 – 11	32.0
HU1	U1	8.5	5.62	8.25	2.963	6	3.25	7	1.25	60	3	.625 – 11	44.6
HU2	U2	8.5	8.62	8.25	6.016	6	3.25	7	1.25	60	3	.625 – 11	69.0
HW1	W1	12.5	6.38	12.25	2.963	8.5	4.562	10	1.25	22.5	4	.75 – 10	130.0

All tapers are .75" per 12" on Diameter.

All dimensions are in inches, except as noted.

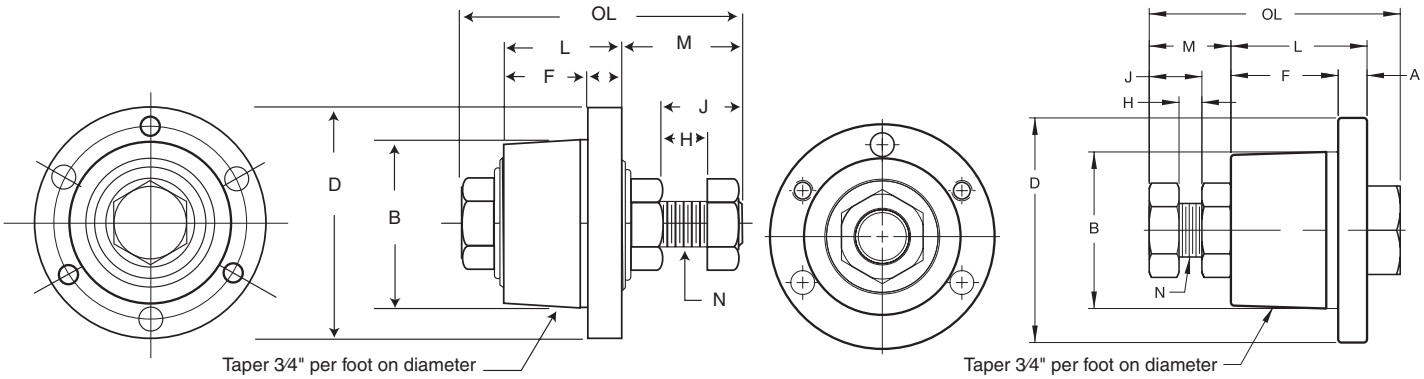
QD and MST® Idler Bushings



Martin Idler Bushings are designed to accommodate stock V-belt drives, sprockets, timing belt pulleys, or other products that use QD or MST® type bushings.

They are equipped with two electric motor grade, permanently lubricated ball bearings, mounted on a precision shoulder bolt. Shoulder bolt and two hex jam nuts are zinc plated.

Installation is made by slipping the threaded shaft through a hole bored in support structure, and tightening the locking nut. Sheaves, sprockets, or other products can be removed without dismounting the idler bushing. Available in sizes as shown below. Boxed complete with all mounting hardware and instructions.



QD Radial Load Ratings (lb) 2500 Hours Service Life

Part Number	RPM				
	100	500	1000	1200	1800
SH-BB	1260	740	580	540	480
SD-BB	1740	1020	800	760	660
SK-BB	2370	1360	1070	1000	880
SF-BB	2550	1500	1180	1100	980
E-BB	4640	2720	2140	2020	1780

Service Temperature Range –40° F Minimum +248° F Maximum.

MST® Radial Load Ratings (lb) 2500 Hours Service Life

Part Number	RPM				
	100	500	1000	1200	1800
H-BB 1/2	1411	825	655	616	538
P1-BB 5/8	1752	1024	813	765	668
Q1-BB 3/4	2344	1371	1088	1024	894
Q1-BB 1	2555	1494	1186	1116	975

Service Temperature Range –40° F Minimum +248° F Maximum.

Part Number	Dimensions									
	A	B	D	F	H	J	L	M	N	OL
SH-BB	.438	1.871	2.688	.75	.625	.938	1.313	1.313	.438	3.063
SD-BB	.5	2.187	3.188	1.25	.688	.688	1.813	1.563	.625	3.875
SK-BB	.563	2.812	3.875	1.25	.75	.813	1.938	1.75	.75	4.563
SF-BB	.563	3.125	4.625	1.25	.75	.938	2.063	2.125	.875	5
E-BB	.75	3.834	6	1.625	1.438	2.188	2.625	3.188	1.375	6.875
H-BB 1/2	.25	1.625	2.5	1	.375	1.063	1.25	1	.5	2.563
P1-BB 5/8	.406	1.937	3	1.531	.531	.922	1.938	1.313	.625	3.641
Q1-BB 3/4	.531	2.875	4.125	1.938	.313	.781	2.5	1.25	.75	4.219
Q1-BB 1	.531	2.875	4.125	1.938	.281	.891	2.5	1.5	1	4.609

COUPLINGS

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Coupling Comparison

Couplings

Comparison Chart

Type	Connecting Medium	Max. H. P. Per 100 RPM	Max. RPM	Bore Range	Allowable Misalignment	
					Angle	Parallel
Chain	roller Chain	700	5000	3/8" — 6 1/8"	2°	.015
Jaw	elastomeric spider	3.6	3600	1/8" — 2 5/8"	1°	.015
Martin Flex ®	elastomeric tire	14.4	4500	3/8" — 3 1/2"	4°	1/8
Quadra Flex ®	elastomeric sleeve	115	9200	1/2" — 6"	.330°	.062

Type	Shock Load Capacity	Vibration Dampening	Temperature	
			Range	Fahrenheit
Chain	none	none	-30°	225°
Jaw	moderate	moderate	-60°	250° ★1
Martin Flex ®	excellent	excellent	-45°	210° ★2
Quadra-Flex ®	excellent	excellent	-50°	275° ★3
		moderate	-30°	275° ★4

★1 With hytrel® spider
★2 neoprene element
★3 tpr sleeve
★4 With epdm sleeve

Whatever Your Need For Couplings — Martin Has Them

Martin Offers Two Complete Lines of Jaw Couplings — One for Greater Horsepower and One for Interchangeability.



ML — Type



MS — Type



Martin Flex® flexible couplings smoothly transmit power while compensating for shaft misalignment to 4°, parallel misalignment to 1/8" and end float to 5/16". The two piece flange design provides quick and easy installation and the elastomeric element absorbs shock and torsional vibration through a wide temperature range.

For the Most Complete Line of Chain Couplings Available.



S/B



BS



TB



QD



Aluminum



Plastic

Martin QUADRA-FLEX® • A Proven Design Which Offers Long Life, Torsional Flexibility, Ease of Installation, and Withstands Misalignment, Shock, and Vibration.







Quadra-Flex® FLEXIBLE COUPLINGS





stocked nationwide
In sizes 3 through 16

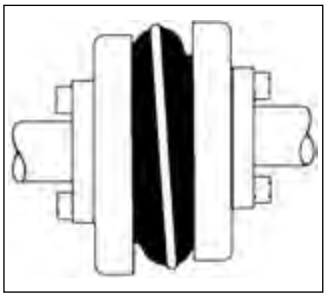
styles J, s, B, and
s C s pacers

QUADRA-FLEX®
4-Way Flexing



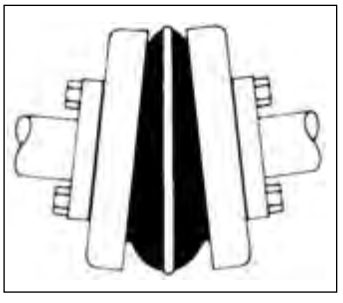
Martin QUADRA-FLEX® Couplings, Non Lubricated, Maintenance Free, Easy and Quick Installation

Handles All Combinations of Shock, Vibration, and Misalignment



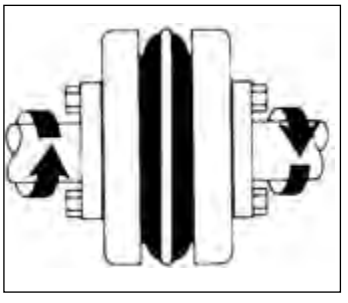
Parallel

Quadra-Flex® couplings absorb parallel misalignment without wear and with minimal loss of energy.
the amount of parallel offset handled varies by size from .015" on the size 5 up to .062" on the size 16. this minimizes the radial loads on bearings when parallel misalignment occurs.



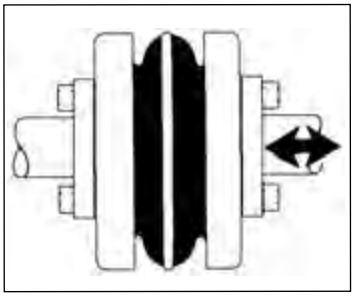
Angular

due to the flexing characteristics of the sleeve and the locking action of the teeth, Quadra-Flex® couplings easily handle angular misalignment up to 1 degree without any appreciable wear.



Torsional

Quadra-Flex® sleeves are torsionally resilient and are well suited to absorbing shocks and dampening vibrations that would otherwise be transmitted between the equipment.



Axial

the axial flexibility of the sleeve allows the Quadra-Flex® coupling to accept a limited amount of end float. this serves to reduce thrust loads transferred to bearings. Quadra-Flex® units will accept axial movement of approximately 1/8".

Available in Three Styles

Type J and S Flanges

Bored-to-size flanges are manufactured for a slip fit on standard shafting. available from stock in a wide range of shaft sizes.



Type B Flanges

manufactured from high strength cast iron to fit standard Qd bushings in sizes 6 thru 16.



Fast Coupling Disassembly

Martin offers the first true drop-out spacer assembly for the 4Js C spacer coupling. t he center portion of the spacer can be taken out, just as in the 5sC thru 14sC, by simply removing four cap screws in each hub. the couplings center section can then be lifted out and the pump gaskets exposed. Flats on the spacer hubs facilitate turning shafts with a wrench.



Type SC Spacer Flange

Qu a d r a-Fl e x® s C s pacer Couplings feature all standard spacing requirements for the pump industry. s pacer sizes range from sizes 4 thru 14.



QUADRA-FLEX® Nomenclature

Flanges

Type	Description
J★	sIntered steel, Bored-to-sIze
s	Cast Iron, Bored-to-sIze
B	Cast Iron, Qd Bushed
sC	spaCer CouplIng Flanges

★ — #6 Currently s upplied in Cast Iron

Hubs – (For SC flanges)

Type	Description
h	regular length
hs	short length

Sleeves

Type	Description
Jem	tpr – 1-pleCe solId, thermoplastIC
Jems	tpr – 1-pleCe splIt, thermoplastIC
em	tpr – 2-pleCe W/retaInIng rIng
e	epdm – 2-pleCe W/retaInIng rIng
n	neoprene – 2-pleCe W/retaInIng rIng
h	hytrel – 1-pleCe solId
hs	hytrel – 2-pleCe

Quadr a-Fl ex® couplings come in a variety of styles and designs to meet specific customer needs. t hese include flanges and sleeves of various types and materials. t he total product line includes 13 sizes varying in torque ratings up to 72,000 in-lbs.

When ordering Quadr a-Fl ex® couplings, the following basic procedure should help expedite order processing. For coupling flanges, give the basic coupling size, then the letter for the type flange followed by the bore size required. For coupling sleeves, give the coupling size followed by the letter(s) designating the type and material required. (see above)

the following are various examples for reference:

Example: type J Flange

	size	Flange	Bore
5J × 3/4"	5	J	¾"
7s × 30mm	7	s	30mm

(Note: Bored-to-size flanges are furnished with standard keyway and 2 setscrews unless specified otherwise.)

Example: type B Flange

	size	Flange	Bushing
8B — sh	8	B	sh

(Note: t he sh bushing with required bore size should be specified separately.)

Example: sleeves

	size	style & material
8Jem	8	solid, tpr
13e	13	2 piece, epdm

(**Note:** u nless specified, t pr (3 thru 12) or epdm (13 thru 16) will be supplied.)

Example: Complete spacer coupling

1	6em	(6 tpr 2 piece sleeve)
2	6sC35	(Flanges for 3½" dropout)
1	6h × 1"	(6 spacer hub for 1" Bore)
1	6h × 1⅛"	(6 spacer hub for 1⅛" Bore)

Sleeve Selection

Quadra-Flex® coupling sleeves are available in four different types of compounds. these include tpr (thermoplastic rubber) in types Jem, Jems, em; epdm rubber in type e; neoprene in type n; hytrel in type h and hs. to determine the sleeve best suited for the application, the material characteristics are given below.

TPR
(Sizes 3-12)

Quadra-Flex® couplings are usually supplied with tpr sleeves in sizes 3-12. tpr is a general use sleeve which combines the characteristics of both epdm & neoprene into one. these sleeves operate within a temperature range from -50° F to +275° F (-46° C to +135° C). torsional flexibility is 15°.

EPDM
(Sizes 13-16)

Quadra-Flex® couplings are usually supplied with epdm rubber sleeves in sizes 13-16. epdm is a general use sleeve and can operate within a temperature range from -30° F to +275° F (-34° C to +135° C). torsional flexibility is 15°.

NEOPRENE
(Sizes 11-16)

neoprene flexible sleeves are also available in sizes 11-14. these sleeves offer a higher resistance than epdm and are self-extinguishing. operating temperature range for this sleeve is 0° F to +200° F (-18° C to +93° C). torsional flexibility is 15°.

*HYTREL®
(Sizes 6-14)

hytrel sleeves are molded specifically for high torque applications. the type h will transmit approximately four times as much power as an equivalent tpr, epdm, or neoprene sleeve. hytrel has an operating temperature from -65° F to +250° F (-54° C to +121° C). torsional flexibility is 7°.

note: do not use a hytrel sleeve as a replacement for a tpr, epdm, or neoprene sleeve.

Sleeve Chemical Resistance

Resistance To:	TPR	EPDM	Neoprene★	Hytrel★
acetone	a	a	B	B
ammonia, anhydrous	B	t	a	n
ammonium hydroxide solutions	t	a	a(158F)	t
astm hydrocarbon test fluid	n	C	x	a
astm oil no. 1	B	C	a	a
astm oil no. 3	B	C	B(158F)	a
astm reference fuel a	B	C	a	a
astm reference fuel B	B	C	C	a
astm reference fuel C	B	x	C	B
Benzene	C	C	C	B
Butane	B	B	a	a
Carbon tetrachloride	x	C	C	C
Chlorobenzene	C	x	x	x
Chloroform	x	C	C	C
Chromic acid, 10-50%	t	t	C	n
dowtherm a solvent	x	n	B	n
ethyl alcohol	a	a	a(158F)	a
ethylene glycol	a	a	a(158F)	a
Fuel oil	B	x	a	a
gasoline	B	B-C	B	a
glycerine	a	t	a(158F)	a
hydraulic oils	B	n	a	a
hydrochloric acid, 20%	a	t	a	B
hydrogen peroxide, 88½%	n	t	B	t

Resistance To:	TPR	EPDM	Neoprene★	Hytrel★
Isopropyl	a	t	a	a
Kerosene	B	x	B	t
lacquer solvents	t	...	C	B
lubricating oils	B	x	B(158F)	a
methyl alcohol	a	t	a(158F)	a
mineral oil	B	x	a	a
naphtha	B	C	C	a
nitric acid, 10%	a	t	B	B
nitrobenzene	t	a	C	C
phenol	t	t	B	C
phosphoric acid, 20%	a	t	t	n
phosphate esters	a	a	C	a
pickling solution (20% nitric acid, 4% hF)	n	x	B-C	x
soap solutions	a	t	a(158F)	a
sodium hydroxide, 20%	a	a	a	a
stearic acid	t	t	B(158F)	t
sulfuric acid, up to 50%	a	t	a(158F)	a
sulfuric acid, up to 80%	a	t	B-C	C
tannic acid, 10%	t	t	a	t
toluene	C	C	C	B
trichloroethylene	C	x	C	C
turpentine	B	C	C	n
Water	a	a(158F)	a(212F)	a(158F)
xylene	C	C	x	B

a — Fluid has little or no effect
B — Fluid has minor to moderate effect
C — Fluid has severe effect

n — no evaluation has been attempted.
t — no data; likely to be compatible
x — no data; not likely to be compatible

*hytrel is a registered trademark of dupont

Selection Procedure

When the driver is an electric motor with standard speed.

Step 1. determine service Factor (sF) symbol based on equipment listed on page C-10.

Step 2. determine proper service Factor from chart at top of page C-10.

Step 3. refer to page C-12 and C-13 for proper selection of coupling. Based on chemical resistance and operating environment found on page C-8, select from chart the type of sleeve material. Find rpm of motor, then, in the column for service factor determined in step 2, read down to the corresponding horsepower of motor being used as the driver. the number listed is the correct coupling size.

Example: a coupling is needed to connect a 25 hp standard electric motor to a lumber log haul at 1750 rpm.
1. service Factor symbol — h
2. service Factor — 2.0
3. Coupling size — 9 with tpr sleeve or 6 with hytrel sleeve

Step 4. select flanges from pages C-15 thru C-19, check coupling bore size range for proper shaft fit.

★ **NOTE: Do not oversize coupling hub — will cause premature wear of element.**

When the driver is other than an electric motor or the speeds are different than those shown in the chart on page C-11.

Step 1. Follow steps 1 & 2 in previous procedure.

Step 2. Calculate horsepower at 100 rpm as follows:

$$\text{hp at 100 rpm} = \frac{\text{hp} \times \text{service Factor} \times 100}{\text{coupling rpm}}$$

Step 3. select coupling size from tables a or C. Find a hp equal to or greater than the hp/100 rpm

Step 4. Check maximum bore to be sure that both shaft sizes do not exceed figure listed for size selected in step 4. If maximum is exceeded select the next largest size which will allow for bore size. do not exceed maximum rpm for new size selected.

Example: a bucket elevator is driven by a motor/reducer and requires a coupling to transmit 14 hp at 1300 rpm.
1. service Factor symbol — m
2. service Factor — 1.5
3. hp at 100 rpm $= \frac{14 \times 1.5 \times 100}{1300} = 1.61$ hp/100 rpm
4. refer to page C-11; under column for 100 rpm the required 1.61 hp falls between the size 7 (1.2) and the size 8 (1.8). Correct selection is size 8 with tpr sleeve. Check bore sizes for flanges on pages C-15 thru C-19.

Maximum RPM and Allowable Misalignment

Size	Maximum RPM	Types JEM, JEMS, EM, E and N		Types H and HS	
		Parallel	Angular	Parallel	Angular
3	9200	.010	.035	—	—
4	7600	.010	.043	—	—
5	7600	.015	.056	—	—
6	6000	.015	.070	.010	.016
7	5250	.020	.081	.012	.020
8	4500	.020	.094	.015	.025
9	3750	.025	.109	.017	.028
10	3600	.025	.128	.020	.032
11	3600	.032	.151	.022	.037
12	2800	.032	.175	.025	.042
13	2400	.040	.195	.030	.050
14	2200	.045	.242	.035	.060
16	1500	.062	.330	—	—

note: values shown above apply if the actual torque transmitted is more than ¼ the coupling rating.
For lesser torque, reduce the above values by ½.

Service Factors

Service Factors For QUADRA-FLEX® Couplings

Service Factor Symbol	Electric Motor Standard Torque	Electric Motor High Torque	Turbines	Reciprocating Engines
l (llght)	1.25	1.5	1.0	1.5
m (medlum)	1.5	2.0	1.25	2.0
h (heavy)	2.0	2.5	1.5	2.5

Table 1

Application	SF Symbols
agltators - paddle, propeller, screw	L
Band resaW	M
Barge haul puller	H
BarKlng (lumber)	H
Bar sCreen (sewage)	L
BatChes (textile)	L
Beater and pulper (paper)	M
Bendlng roll (metal)	M
BleaCher (paper)	L
BloWers	
Centrifugal, vane	L
lobe	M
BottlIng maChlnery	L
BreW Kettles (distilling)	L
BuCKet elevator or Conveyor	M
Calenders	
Calender (paper)	M
Calender-super (paper, rubber)	H
Cane KnIves (sugar)	M
Card maChlne (textile)	H
Car dumpers	H
Cement Klln	H
CentrIFugal BloWers	
Compressors, Fans or pumps	L
ChemICal Feeders (sewage)	L
ChIller (oil)	M
ChIpper (paper)	H
CIrCular resaW	M
ClarIFIer or ClassIFIer	L
Clay WorKlng maChlnery	M
ColleCtors (sewage)	L
Compressors	
Centrifugal	L
reciprocating	*
screw, lobe	L
ConCrete mIxers	M
ConvertIng maChlne (paper)	M
Conveyors	
apron, assembly Belt, Flight	L
oven, screw	L
Bucket	M
CooKers- Brewing, distilling, Food	L
Coolng toWer Fans	H
CouCh (paper)	M
Cranes & holsts	M
heavy duty mine	H
Crushers — Cane (sugar), stone, ore	H
Cutter — paper	H
CylInder (paper)	H
deWaterIng sCreen (sewage)	M
dIsC Feeder	L
dough mIxer	M
draW BenCh Conveyor & main drive	H
dredges	
Cable reel, pumps	M
Cutter head drive, Jig drive	H
screen drive	H
maneuvering and utility Winch	M
stacker	M
dynamometer	L
dryers (rotary)	M
edger (lumber)	H
elevators	
Bucket	M
escalator	L
Freight, passenger, service, man lift	H
esCalators	L
extruder (metal)	H
Fans	
Centrifugal	L
Cooling tower	H
Forced draft, large Industrial, mine	M
Feeders	
apron, Belt, disc	L
reciprocating	H
screw	M
FIlter, press-oil	M
generators	
uniform load	L
varying load, holst	M
Welders	H
grIt ColleCtor (sewage)	L
grIzzly	H
hammermIll	
light duty, Intermittent	M
heavy duty, Continuous	H
holsts	
heavy duty	H
medium duty	M
Jordan (paper)	H
Klln, rotary	H
laundry Washer or tumBler	H
lIne shaFts	L
log haul (lumber)	H
loom (textile)	M
maChlne tools, maIn drIve	M
mangle (textile)	L
mash tuBs (distilling)	L
meat grInder	M
metal FormIng maChlnes	M
mIlls	
Ball, pebble, rod, tube	H
rubber, tumbling	H
dryer and Cooler	M
mIxer	
Concrete, muller	M
Banbury	H
ore Crusher	H
oven Conveyor	L
planer (metal or wood)	M
presses	
Brick, BrIquette machine	H
notchIng, paper, punch, printing	M
pug mIll	M
pulp grInder (paper)	H
pulverIzers	
hammermill — light duty, roller	M
hammermill — heavy duty, hog	H
pumps	
Centrifugal, axial	L
gear, lobe, vane	M
reciprocating — sgl. or dbl. acting	*
reel, reWInder (paper) CaBle	M
rod mIll	H
saWdust Conveyor	L
sCreens	
air Washing, Water	L
rotary for coal or sand	M
vibrating	H
sCreW Conveyor	L
slaB Conveyor (lumber)	M
sIltters (metal)	M
soapers (textile)	L
sortIng taBle (lumber)	M
spInner (textile)	M
stoKer	L
suCtIon roll (paper)	M
tenter Frames (textile)	M
tIre BuIldIng maChlnes	H
tIre & tuBe press opener	L
tumBlIng Barrels	H
Washer and thICKener (paper)	M
WInChes	M
WInders, paper, textile, Wire	M
WIndlass	M
WIre	
drawing	H
Winding	M
WoodWorKIng maChlnery	L

* Consult Factory

Coupling Ratings

Table 2A ThermoPlastic Rubber (TPR), EPDM & Neoprene

Coupling Size	Sleeve Construction	Basic HP Ratings Per Given RPM					Rated Torque (in.-lb.)	Torsional • Stiffness Factor (in.-lb./radians)	Maximum RPM
		100	860	1160	1750	3500			
3	tpr	.10	.8	1.1	1.7	3.3	60	229	9200
4	tpr	.19	1.6	2.2	3.3	6.7	120	458	7600
5	tpr	.38	3.3	4.4	6.7	13.0	240	916	7600
6	tpr	.71	6.1	8.3	12.5	25.0	450	1718	6000
7	tpr	1.20	10.0	13.0	20.0	40.0	725	2769	5250
8	tpr	1.80	16.0	20.0	32.0	63.0	1135	4335	4500
9	tpr	2.80	25.0	33.0	50.0	100.0	1800	6875	3750
10	tpr	4.60	39.0	53.0	80.0	160.0	2875	10980	3600
11	tpr	7.20	62.0	83.0	126.0	252.0	4530	17300	3600
12	tpr	11.40	98.0	132.0	200.0	—	7200	27500	2800
13	epdm & neoprene	18.00	155.0	209.0	315.0	—	11350	43350	2400
14	epdm & neoprene	28.60	246.0	331.0	500.0	—	18000	68755	2200
16	epdm	75.00	645.0	870.0	—	—	47250	180480	1500

Table 2C Hytrel

Coupling Size	Sleeve Construction	Basic HP Ratings Per Given RPM					Rated Torque (in.-lb.)	Torsional • Stiffness Factor (in.-lb./radians)	Maximum RPM
		100	860	1160	1750	3500			
3★	hytrel	—	—	—	—	—	—	—	—
4★	hytrel	—	—	—	—	—	—	—	—
5★	hytrel	—	—	—	—	—	—	—	—
6	hytrel	2.9	25.0	33.0	50.0	100.0	1800	10000	6000
7	hytrel	4.6	39.0	53.0	80.0	160.0	2875	20000	5250
8	hytrel	7.2	62.0	84.0	126.0	252.0	4530	30000	4500
9	hytrel	11.4	98.0	132.0	200.0	400.0	7200	47500	3750
10	hytrel	18.0	155.0	209.0	315.0	630.0	11350	100000	3600
11	hytrel	28.6	246.0	331.0	500.0	1000.0	18000	125000	3600
12	hytrel	50.0	430.0	580.0	875.0	—	31500	225000	2800
13	hytrel	75.0	645.0	870.0	1312.0	—	47268	368900	2400
14	hytrel	115.0	986.0	1334.0	2013.0	—	72480	593250	2200

★ hytrel sleeves are available on a made-to-order basis. Consult factory.
• values shown are for an ambient temperature of 75° F (24° C).

Sleeve Selection Chart

Selection Chart for TPR[1], EPDM, & Neoprene Sleeves

	860 RPM Motor					1160 RPM Motor					1750 RPM Motor					3500 RPM Motor				
	Service Factors					Service Factors					Service Factors					Service Factors				
HP	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5
½	3	3	3	4	4	3	3	3	3	4	3	3	3	3	3	—	—	—	—	—
¾	3	4	4	4	5	3	3	4	4	4	3	3	3	3	4	3	3	3	3	3
1	4	4	4	5	5	3	4	4	4	5	3	3	3	4	4	3	3	3	3	3
1½	4	5	5	5	6	4	4	5	5	5	3	4	4	4	5	3	3	3	3	4
2	5	5	5	6	6	4	5	5	5	6	4	4	4	5	5	3	3	3	4	4
3	5	6	6	6	7	5	5	6	6	6	4	5	5	5	6	3	4	4	4	5
5	6	6	7	7	8	6	6	6	7	7	5	5	6	6	6	4	4	5	5	5
7½	7	7	8	8	9	6	7	7	8	8	6	6	6	7	7	5	5	5	6	6
10	7	8	8	9	9	7	7	8	8	9	6	6	7	7	8	5	5	6	6	6
15	8	9	9	10	10	8	8	9	9	10	7	7	8	8	9	6	6	6	7	7
20	9	9	10	10	11	8	9	9	10	10	7	8	8	9	9	6	6	7	7	8
25	9	10	10	11	11	9	9	10	10	11	8	8	9	9	10	6	7	7	8	8
30	10	10	11	11	12	9	10	10	11	11	8	9	9	10	10	7	7	8	8	9
40	10	11	11	12	12	10	10	11	11	12	9	9	10	10	11	7	8	8	9	9
50	11	11	12	12	13	10	11	11	12	12	9	10	10	11	11	8	8	9	9	10
60	11	12	12	13	13	11	11	12	12	13	10	10	11	11	12	8	9	9	10	10
75	12	12	13	13	14	11	12	12	13	13	10	11	11	12	12	9	9	10	10	11
100	12	13	13	14	14	12	12	13	13	14	11	11	12	12	13	9	10	10	11	11
125	13	13	14	14	—	12	13	13	14	14	11	12	12	13	13	10	10	11	11	—
150	13	14	14	16	16	13	13	14	14	16	12	12	13	13	14	10	11	11	—	—
200	14	14	16	16	16	13	14	14	16	16	12	13	13	14	14	11	11	—	—	—
250	14	16	16	16	16	14	14	16	16	16	13	13	14	14	—	11	—	—	—	—
300	16	16	16	16	—	14	16	16	16	16	13	14	14	—	—	—	—	—	—	—
350	16	16	16	—	—	16	16	16	16	16	14	14	—	—	—	—	—	—	—	—
400	16	16	16	—	—	16	16	16	16	—	14	14	—	—	—	—	—	—	—	—
450	16	16	—	—	—	16	16	16	—	—	14	—	—	—	—	—	—	—	—	—
500	16	16	—	—	—	16	16	16	—	—	14	—	—	—	—	—	—	—	—	—
600	16	—	—	—	—	16	16	—	—	—	—	—	—	—	—	—	—	—	—	—
700	—	—	—	—	—	16	16	—	—	—	—	—	—	—	—	—	—	—	—	—
800	—	—	—	—	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[1] t hermoplastic r ubber

Caution: applications involving reciprocating engines and reciprocating driven devices are subject to critical rotational speeds which may damage the coupling and/or connected equipment. Contact factory with specific requirements.

Hytrel Selection Chart

Selection Chart for Hytrel Sleeves

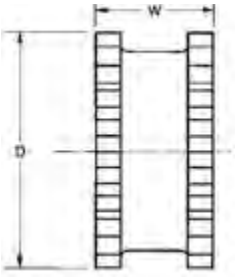
	860 RPM Motor					1160 RPM Motor					1750 RPM Motor					3500 RPM Motor				
	Service Factors					Service Factors					Service Factors					Service Factors				
HP	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5
1 1½ 2 3 5																				
7½	6h	6h	6h	6h	6h	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	6h	6h	6h	6h	6h	6h	6h	6h	6h	6h	—	—	—	—	—	—	—	—	—	—
15	6h	6h	6h	7h	7h	6h	6h	6h	6h	7h	6h	6h	6h	6h	6h	—	—	—	—	—
20	6h	6h	7h	7h	8h	6h	6h	6h	7h	7h	6h	6h	6h	6h	6h	—	—	—	—	—
25	6h	7h	7h	8h	8h	6h	6h	7h	7h	8h	6h	6h	6h	6h	7h	—	—	—	—	—
30	7h	7h	8h	8h	9h	6h	7h	7h	8h	8h	6h	6h	6h	7h	7h	6h	6h	6h	6h	6h
40	7h	8h	8h	9h	9h	7h	7h	8h	8h	9h	6h	6h	7h	7h	8h	6h	6h	6h	6h	6h
50	8h	8h	9h	9h	10h	7h	8h	8h	9h	9h	6h	7h	7h	8h	8h	6h	6h	6h	6h	7h
60	8h	9h	9h	10h	10h	8h	8h	9h	9h	10h	7h	7h	8h	8h	9h	6h	6h	6h	7h	7h
75	9h	9h	10h	10h	11h	8h	9h	9h	10h	10h	7h	8h	8h	9h	9h	6h	6h	7h	7h	8h
100	9h	10h	10h	11h	11h	9h	9h	10h	10h	11h	8h	8h	9h	9h	10h	6h	7h	7h	8h	8h
125	10h	10h	11h	11h	12h	9h	10h	10h	11h	11h	8h	9h	9h	10h	10h	7h	7h	8h	8h	9h
150	10h	11h	11h	12h	12h	10h	10h	11h	11h	12h	9h	9h	10h	10h	11h	7h	8h	8h	9h	9h
200	11h	11h	12h	12h	13h	10h	11h	11h	12h	12h	9h	10h	10h	11h	11h	8h	8h	9h	9h	10h
250	11h	12h	12h	13h	13h	11h	11h	12h	12h	13h	10h	10h	11h	11h	12h	8h	9h	9h	10h	10h
300	12h	12h	13h	13h	14h	11h	12h	12h	13h	13h	10h	11h	11h	12h	12h	9h	9h	10h	10h	11h
350	12h	12h	13h	14h	14h	12h	12h	12h	13h	14h	11h	11h	12h	12h	12h	9h	10h	10h	11h	11h
400	12h	13h	13h	14h	14h	12h	12h	13h	13h	14h	11h	11h	12h	12h	13h	9h	10h	10h	11h	11h
500	13h	13h	14h	14h	—	12h	13h	13h	14h	14h	11h	12h	12h	13h	13h	10h	10h	11h	11h	—
600	13h	14h	14h	—	—	13h	13h	13h	14h	—	12h	12h	13h	13h	14h	10h	11h	11h	—	—
700	14h	14h	—	—	—	13h	13h	14h	14h	—	12h	12h	13h	14h	14h	11h	11h	—	—	—
800	14h	14h	—	—	—	13h	14h	14h	—	—	12h	13h	13h	14h	14h	11h	11h	—	—	—
900	14h	—	—	—	—	14h	14h	14h	—	—	13h	13h	14h	14h	—	11h	—	—	—	—
1000	—	—	—	—	—	14h	14h	—	—	—	13h	13h	14h	14h	—	11h	—	—	—	—

QUADRA-FLEX® Sleeves

Martin flexible sleeve elements are offered in four material compounds (thermoplastic rubber (tpr), epdm, neoprene, and hytrel) available in three construction styles. our em sleeve offers the combination of epdm's extended temperature range as well as the higher oil resistance which neoprene provides.



Type JEM



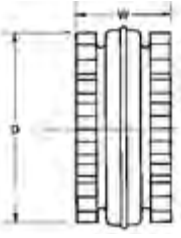


Type JEMS

Types JEM — JEMS

type J sleeves are molded thermoplastic rubber (tpr). available in 1 piece solid (Jem), and 1 piece split, construction (Jems). tpr material will handle higher temperature ranges as well as be oil resistant.





Type EM, E, and N



Types EM — E — N

type em, e, and n sleeves are of two piece molded construction with retaining ring. they are available in thermoplastic rubber (type tpr), epdm (type e), or neoprene (type n). these can be used with any type flanges within a given size range.



Type H





Type HS

Types H & HS

Martin h & hs sleeves are molded hytrel for higher torque loading than standard em sleeves. h & hs sleeves cannot be used with style J and B flanges. hytrel sleeves are not a direct replacement for tpr, epdm, or neoprene sleeves.

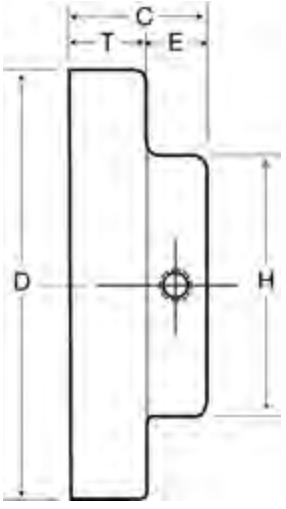
Dimensions (Inches)

Coupling Size	JEM — JEMS Sleeves			EM - E - N Sleeves			H & HS Sleeves Hytrel•		
	D	W	Wt. (lb.)	D	W	Wt. (lb.)	D	W	Wt. (lb.)
3	1⅞	1	.06	—	—	—	—	—	—
4	2⅝	1¼	.10	2⅝	1¼	.11	—	—	—
5	2¹⁵⁄₁₆	1⅜	.20	2¹⁵⁄₁₆	1⅜	.25	—	—	—
6	3¾	1⅞	.35	3¾	1⅞	1.00	3¾	1⅞	.44
7	4¹¹⁄₃₂	2⅜	.50	4¹¹⁄₃₂	2⅜	.77	4¹¹⁄₃₂	2⅜	.69
8	5⅛	2½	.85	5⅛	2½	1.4	5⅛	2½	1.4
9	6	3	2.00	6	3	2.0	6	3	1.8
10	7⅛	3⅜	2.20	7⅛	3⅜	2.90	7⅛	3⅜	3.00
11	—	—	—	8⅜	4	4.67	8⅜	4	4.70
12	—	—	—	9⁹⁄₁₆	4¹¹⁄₁₆	8.1	9⁹⁄₁₆	4¹¹⁄₁₆	8.00
13	—	—	—	11⅜	5½	13.0	11⅜	5½	11.8
14	—	—	—	13³⁄₃₂	6½	21.1	13³⁄₃₂	6½	19.3
16	—	—	—	17²⁹⁄₃₂	8¾	53	—	—	—

• 13 & 14 hytrel available with hs sleeves only.

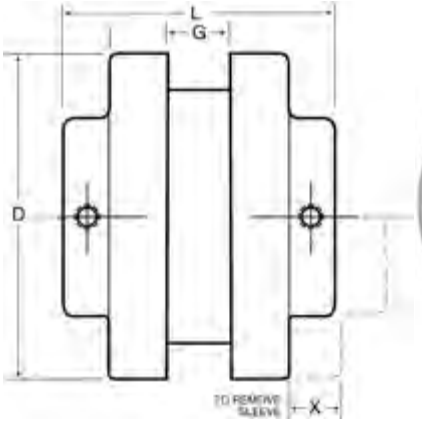
QUADRA-FLEX® Type J Flanges





QUADRA-FLEX® Type J Flanges

Martin type J Flanges are supplied bored to size with standard keyway and two setscrews to slip fit on standard shafting.





type J Flanges use the Martin Jem 1 piece, the Martin Jems 1 piece split and the Martin em 2 piece split sleeves.
(**Note:** hytrel sleeves are not intended for use with this type of flange.)

Dimensions (Inches)

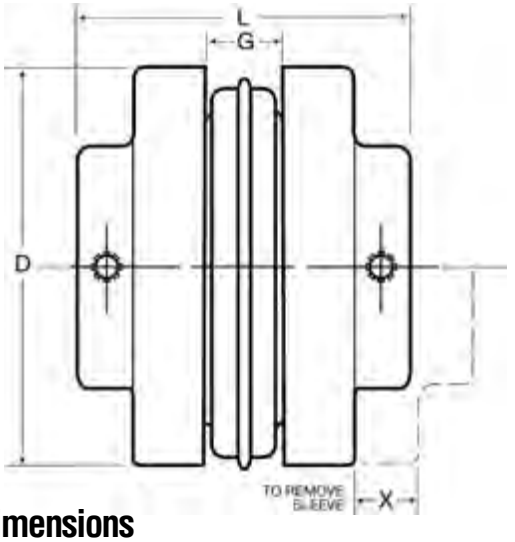
Coupling Size	Dimensions								Weight (lbs.)★	Finished Bore Sizes• (Inches)	Max. Bore	Millimeters
	C	D	E	G	H	L	T	X				
3J	13/16	2.062	7/16	3/8	1 1/4	2	3/8	9/16	.26	3/8** - 1/2 - 5/8 - 3/4	3/4	— — —
	13/16	2.062	7/16	3/8	1 1/2	2	3/8	9/16	.26	7/8	7/8	— — —
4J	7/8	2.460	7/16	5/8	1 5/8	2 3/8	7/16	3/4	.47	1/2 - 5/8 - 3/4 - 7/8 - 15/16 - 1	1	15 20 25
5J	1 1/16	3.250	15/32	3/4	1 7/8	2 7/8	19/32	31/32	.86	1/2 - 5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8	1 1/8	— — —
6J	1 7/32	4.000	19/32	7/8	1 15/16	3 5/16	5/8	1 3/32	1.73	5/8 - 3/4 - 7/8 - 15/16 - 1	—	— — —
	1 7/32	4.000	19/32	7/8	2 1/2	3 5/16	5/8	1 3/32	1.70	1 1/8 - 1 3/16 - 1 1/4 - 1 3/8	1 3/8	— — —

★ approximate weight for each flange.
** 3/8" Bore has no Keyway
• J flanges can be rebored if necessary.

QUADRA-FLEX® Type S Couplings (Bored to Size)

type s flexible coupling flanges are bored to size to fit on any standard shaft. they are produced from high strength cast iron. units are easy to install and remove and are stocked in a wide range of bore sizes as shown on the next page.





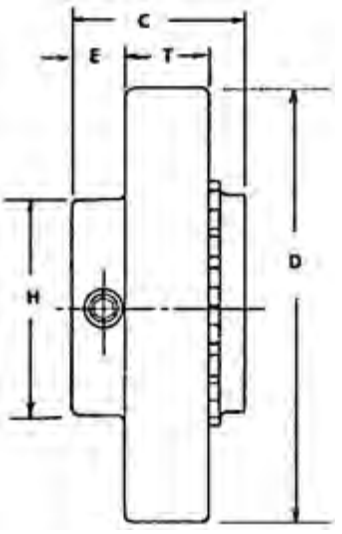
Dimensions

Coupling Size	Flange Diameter (D)	Bore (Inches)			Hub (Inches)			G	L	T	X	Weight (Lbs.)•
		Stock	Rec. Max.★	Rec. Max.★★	Hub Diameter (H)	Length Thru (C)	Hub Proj. (E)					
5s	3.250	½	1 3/16	1¼	1⅞	1⅜	29/64	¾	2 13/16	19/32	31/32	1.0
	4.000	⅝	1 7/16	1½	2½	1⅝	17/32	⅞	3½	¾	1 3/32	2.1
6s	4.000	⅝	—	1⅞	2½	1 9/16	13/16	⅞	4	¾	1 3/32	2.1
7s	4.625	⅝	1⅝	1⅞	2 13/16	1 27/32	11/16	1	3 15/16	25/32	1 5/16	2.7
8s	5.450	¾	1 15/16	2¼	3¼	2 3/32	¾	1⅛	4 7/16	29/32	1½	4.5
	5.450	¾	—	2⅜	3¼	1 15/16	1 1/32	1⅛	5	29/32	1½	4.5
9s	6.350	⅞	2⅜	2½	3⅝	2 13/32	25/32	1 7/16	5 1/16	1 1/32	1¾	6.5
	6.350	⅞	—	2⅞	4⅛	2 3/32	1¼	1 7/16	6	1 1/32	1¾	6.5
10s	7.500	1⅛	2¾	3⅛	4⅜	2 23/32	13/16	1⅝	5 11/16	1 7/32	2	11.3
	7.500	1⅛	—	3⅜	4¾	2 11/16	1 15/32	1⅝	7	1 7/32	2	11.3
11s	8.625	1¼	3⅜	3⅝	5¼	3 1/16	1⅛	1⅞	7⅛	1½	2⅜	17.6
	8.625	1¼	—	3⅞	5⅝	3 1/16	1 9/16	1⅞	8	1½	2⅜	17.6
12s	10.000	1½	3⅞	3 15/16	5¾	4	19/32	2 5/16	8¼	1 1/16	2 1/16	27.2
13s	11.750	2	4½	—	6¾	4⅜	1 5/16	2 1/16	9¼	1 3/32	3 1/16	45.6
14s	13.875	2	5	—	7½	4½	1 1/16	3¼	9⅞	2¼	3½	70.0
16s	18.875	2	5½	6	8	6	2	4¾	14¼	2¾	4¼	162.0

★ r ecommended max. bore with standard keyway.
★★ r ecommended max. bore with shallow keyway. s ee chart on page C-18 for recommended keyway size.
• a pproximate weight for each flange.

Type S QUADRA-FLEX® Couplings
Finished Bore Sizes





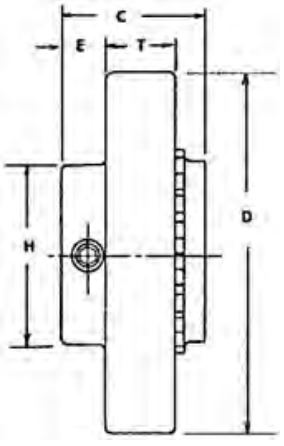
Inches / Millimeters

Coupling Size	Finished Bore Sizes Inches / mm
5s	⅝ ¾ 13/16 ⅞ 15/16 1 1 1/16 1⅛ 1 3/16 1¼ 15mm 20mm 25mm
6s	¾ ⅞ 15/16 1 1 1/16 1⅛ 1 3/16 1¼ 1 5/16 1⅜ 1 7/16 1½ 20mm 25mm 28mm 30mm 35mm 1⅝ 1¾ 1⅞
7s	¾ ⅞ 15/16 1 1 1/16 1⅛ 1 3/16 1¼ 1 5/16 1⅜ 1 7/16 1½ 1 9/16 1⅝ 1 11/16 1¾ 1⅞ 25mm 28mm 30mm 38mm 42mm
8s	⅞ 15/16 1 1 1/16 1⅛ 1 3/16 1¼ 1 5/16 1⅜ 1 7/16 1½ 1 9/16 1⅝ 1 11/16 1¾ 1⅞ 1 15/16 2 1/16 2⅛ 28mm 30mm 32mm 38mm 42mm 48mm 2⅜
9s	15/16 1 1 1/16 1⅛ 1¼ 1⅜ 1 7/16 1½ 1 9/16 1⅝ 1 11/16 1¾ 1⅞ 1 15/16 2 2 1/16 2⅛ 2 3/16 2¼ 2⅜ 2½ 30mm 32mm 38mm 42mm 48mm 2⅞
10s	1⅛ 1¼ 1⅜ 1 7/16 1½ 1 9/16 1⅝ 1 11/16 1¾ 1⅞ 1 15/16 2 2 1/16 2⅛ 2 3/16 2¼ 2⅜ 2 7/16 2½ 2¾ 2⅞ 55mm 60mm 3⅜
11s	1¼ 1⅜ 1 7/16 1 9/16 1⅝ 1¾ 1⅞ 2 1/16 2⅛ 2¼ 2⅜ 2⅝ 2¾ 2⅞ 3⅜ 3⅞
12s	1⅛ 2⅛ 2⅜ 2⅝ 2⅞ 3⅜ 3⅞ 3 15/16 90mm
13s	2⅜ 2⅞ 3⅜
14s	2⅞
16s	o

o plain bore only.

Keyseat Dimensions





Standard Keyway Dimensions

Shaft Diameter	Width	Depth
½ - 9/16	⅛	1/16
5/8 - 7/8	3/16	3/32
15/16 - 1¼	¼	⅛
1 5/16 - 1⅜	5/16	5/32
1 7/16 - 1¾	⅜	3/16
1 13/16 - 2¾	½	¼
2 5/16 - 2¾	5/8	5/16
2 13/16 - 3¼	¾	⅜
3 5/16 - 3¾	⅞	7/16
3 13/16 - 4½	1	½
4 9/16 - 5½	1¼	5/8
5 9/16 - 6½	1½	¾

Bore Tolerances for Types J and S Flanges, SC Hubs

Bore (Inch)	Tolerance (Inch)
up to 1	+.0000 to +.0010
1 1/16 to 2⅛	+.0000 to +.0015
2 3/16 to 2⅝	+.0000 to +.0020
2 11/16 to 3 11/16	+.0000 to +.0025
3¾ to 4¾	+.0000 to +.0030
4 13/16 to 6	+.0000 to +.0035

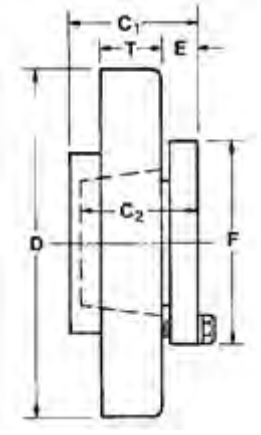
t hese bores provide a slip fit.

Shallow Keyseat Dimensions

Coupling Size	Hub Dia. (H)	Length Thru (C)	Shallow Keyseat Dimensions								
			Bore	Keyway	Key	Bore	Keyway	Key	Bore	Keyway	Key
6s	2½ 2 3/16	1 5/16 1 1/16	1 5/8	3/8 × 1/8 3/8 × 1/8	3/8 × 5/16 × 1¼	1¾	3/8 × 1/16	3/8 × ¼ × 1¼	1 7/8	½ × 1/16	½ × 5/16 × 1½
7s	2 13/16	1 27/32	1 7/8	½ × ⅛	½ × ⅜ × 1 13/16						
8s 8s	3¼ 3¼	2 3/16 1 15/16	2⅛ 2⅛	½ × 3/16 ½ × 3/16	½ × 7/8 × 2 1/16 ½ × 7/8 × 2 1/16	2 3/8 2 3/8	5/8 × ⅛ 5/8 × ⅛	5/8 × 7/16 × 1 15/16 5/8 × 7/16 × 1 15/16			
9s	3⅜ 4⅛	2 13/32 2 9/32	2½ 2½	5/8 × 3/16 5/8 × 3/16	5/8 × ⅜ × 2⅜ 5/8 × ⅜ × 2⅜	2 7/8 2 7/8	¾ × ⅛ ¾ × ⅛	¾ × ½ × 2 1/16 ¾ × ½ × 2 1/16			
10s	4⅜ 4¾	2 21/32 2 11/16	2 7/8 2 7/8	¾ × ¼ ¾ × ¼	¾ × 5/8 × 2 11/16 ¾ × 5/8 × 2 11/16	3 3/8 3 3/8	7/8 × 3/16 7/8 × 3/16	7/8 × ⅜ × 2 11/16 7/8 × ⅜ × 2 11/16			
11s	3¼ 4⅞ 5¼ 5⅝	3 1/16 3 7/16 3 7/16 3 1/16	3 7/8 3 7/8 3 7/8 3 7/8	1 × ¼ 1 × ¼ 1 × ¼ 1 × ¼	1 × ¾ × 3 1 × ¾ × 3 1 × ¾ × 3 1 × ¾ × 3						
12s	3¾ 4⅞ 5¾	4 4 4	3 15/16 3 15/16 3 15/16	1 × ¼ 1 × ¼ 1 × ¼	1 × ¾ × 3 15/16 1 × ¾ × 3 15/16 1 × ¾ × 3 15/16						

Type B Bushed QUADRA-FLEX®





Flanges

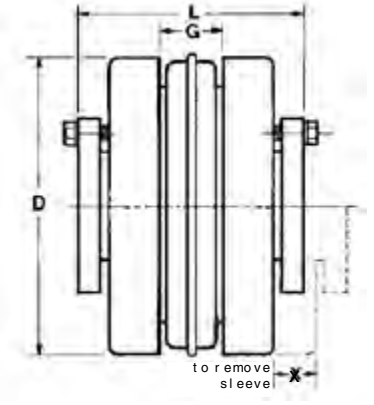
t ype B flanges are made of high quality cast iron, the same high strength cast iron used in the t ype s and sC Qu a d r a-Fl e x flanges. t ype B is designed to accommodate Martin Qd bushings for easy installation and removal. t ype B flanges are not intended for use with hytrel sleeves.

Coupling Size	Bushing Required	Dimensions								Max. Bore★	Weight Lbs.†	
		C_1	C_2	D	E	F	G	L	T	X	Flange	Bushing
6B	Ja	1 17/32	1	4.000	7/16	2	7/8	3 5/16	25/32	1 3/32	1 3/16	1.7	.9
7B	Ja	1 19/32	1	4.625	7/16	2	1	3 7/16	25/32	1 5/16	1 3/16	2.0	1.0
8B	sh	1 27/32	1 1/4	5.450	1/2	2 11/16	1 7/16	3 15/16	29/32	1 1/2	1 5/8	3.1	1.0
9B	sd	2 3/16	1 13/16	6.350	7/16	3 3/16	1 7/16	4 5/8	1 1/32	1 3/4	1 15/16	4.9	1.5
10B	sK	1 27/32	1 7/8	7.500	5/8	3 7/8	1 5/8	5 5/16	1 1/32	2	2 1/2	7.0	2.0
11B	sF	2 1/8	2	8.625	5/8	4 5/8	1 7/8	6 1/8	1 1/2	2 3/8	2 3/4	11.8	3.0
12B	e	2 1 1/16	2 5/8	10.000	7/8	6	2 5/16	7 7/16	1 1 1/16	2 1 1/16	3 7/16	17.2	10.0
13B	F	3 1 1/16	3 5/8	11.750	1	6 5/8	2 11/16	8 5/8	1 3 1/32	3	3 15/16	30.5	11.5
14B	F	3 1 1/16	3 5/8	13.875	1	6 5/8	3 1/4	9 3/4	2 1/4	3 1/2	3 15/16	51.0	11.5
16B	J	4 3/4	4 1/2	18.875	1 3/16	7 1/4	4 3/4	12 5/8	2 3/4	4 1/4	4 1/2	120.0	18.0

★ maximum bore with keyseat.
† approximate weight for each flange.

QD Bushing Keyway Dimensions

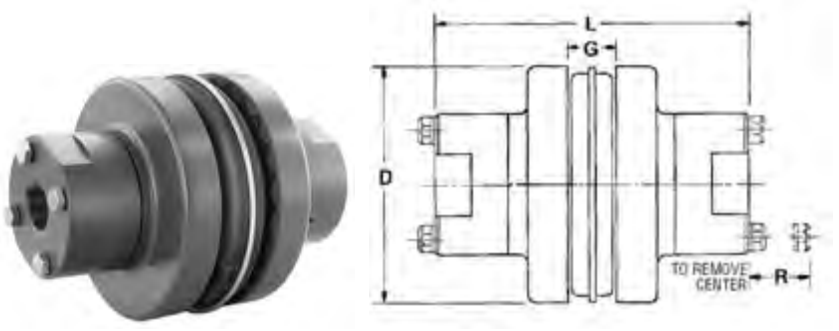
Bushing	Bores	Keyseat
Ja	1/2 - 1 1 1/16 - 1 1/8 1 3/16 1 1/4	standard 1/4 × 1/16 1/4 × 1/16 no K.s.
sh	1/2 - 1 3/8 1 7/16 - 1 5/8 1 11/16	standard 3/8 × 1/16 no K.s.
sd	1/2 - 1 11/16 1 3/4 1 13/16 1 7/8 - 1 15/16 2	standard 3/8 × 1/8 1/2 × 1/8 1/2 × 1/16 no K.s.
sK	1/2 - 2 1/8 2 3/16 - 2 1/4 2 5/16 - 2 1/2 2 9/16 - 2 5/8	standard 1/2 × 1/8 5/8 × 1/16 no K.s
sF	1/2 - 2 1/4 2 5/16 - 2 1/2 2 9/16 - 2 3/4 2 13/16 - 2 7/8 2 15/16	standard 5/8 × 3/16 5/8 × 1/16 3/4 × 1/16 3/4 × 1/32
e	7/8 - 2 1/8 2 13/16 - 3 1/4 3 5/16 - 3 7/16 3 1/2	standard 3/4 × 1/8 7/8 × 1/16 7/8 × 1/16
F	1 - 3 5/16 3 3/8 - 3 3/4 3 13/16 - 3 15/16 4	standard 7/8 × 3/16 1 × 1/8 no K.s.
J	1 1/4 - 3 3/4 3 13/16 - 3 15/16 4 - 4 1/2	standard 1 × 1/8 1 × 1/8



Bushings

Martin Qd bushings offer convenient mounting of the flange to the shaft securely without setscrews. t hey are tapered and are split through both the bushing flange and taper to provide a clamp fit, eliminating wobble, vibration, and fretting corrosion. t his is the same bushing used in Martin sprockets and sheaves and is readily available.

Type SC
Spacer Couplings



the dimensions for completely assembled Quadra-Flex® type sC spacer Couplings are shown below. see next page for dimensions of separate components.

Coupling Size	Required Distance Between Shafts	Use Flange Number	Use Hub Number	Max. Bore Standard Keyway	Dimensions				Weight[2] (Lbs.)•
					D	L[2]	G	R	
4JsC	3½	4JsC35[1]	4h	1⅛	2.460	5⅝	⅝	½	4.7
5sC	3½	5sC35	5h	1⅛	3.250	5⅝	¾	9/16	4.1
6sC	3½	6sC35	6h	1⅜	4.000	5⅞	⅞	¾	7.1
6sC	4⅜	6sC44	6h	1⅜	4.000	6¾	⅞	¾	7.9
6sC	5	6sC50	6h	1⅜	4.000	7⅜	⅞	¾	8.5
7sC	3½	7sC35	7h	1⅝	4.625	6⅜	1	⅝	9.1
7sC	4⅜	7sC44	7h	1⅝	4.625	7¼	1	⅝	10.1
7sC	5	7sC50	7h	1⅝	4.625	7⅞	1	⅝	10.7
8sC	3½	8sC35	8h	1⅞	5.450	6⅞	1⅛	13/16	14.7
8sC	3½	8sC35-10	10h★	2⅜	5.450	8⅛	1⅛	13/16	22.7
8sC	4⅜	8sC44	8h	1⅞	5.450	7¾	1⅛	13/16	16.1
8sC	5	8sC50	8h	1⅞	5.450	8⅜	1⅛	1 3/16	15.9
8sC	5	8sC50 -10	10h★	2⅜	5.450	9⅜	1⅛	1 3/16	26.5
9sC	3½	9sC35	9h★	2⅛	6.350	7½	1 7/16	1 1/16	22.0
9sC	4⅜	9sC44	9h★	2⅛	6.350	8¼	1 7/16	1 1/16	23.4
9sC	5	9sC50	9h★	2⅛	6.350	8⅞	1 7/16	1 1/16	24.6
9sC	5	9sC50 -11	11h★	2⅞	6.350	10⅜	1 7/16	1 3/16	40.2
9sC	7	9sC70-11	11h★	2⅞	6.350	12⅜	1 7/16	1 3/16	48.2
9sC	7¾	9sC78-11	11h★	2⅞	6.350	13⅛	1 7/16	1 3/16	50.8
10sC	4¾	10sC48	10h★	2⅜	7.500	9⅜	1⅝	1 3/16	35.4
10sC	5	10sC50	10h★	2⅜	7.500	9⅝	1⅝	1 3/16	38.2
10sC	7	10sC70-13	13h★	3⅜	7.500	13⅝	1⅝	1⅞	71.8
10sC	7¾	10sC78-13	13h★	3⅜	7.500	14⅝	1⅝	1⅞	75.6
10sC	10	10sC100-13	13h★	3⅜	7.500	16⅝	1⅝	1⅞	89.0
11sC	4¾	11 sC48	11h★	2⅞	8.625	10⅝	1⅞	1 3/16	54.5
11sC	5	11 sC50	11h★	2⅞	8.625	10⅞	1⅞	1 3/16	54.8
11sC	7	11sC70-14	14h	3⅜	8.625	14⅝	1⅞	2	85.7
11sC	7¾	11sC78-14	14h	3⅜	8.625	15⅝	1⅞	2	90.1
11sC	10	11sC100-14	14h	3⅜	8.625	17⅝	1⅞	2	102.5
12sC	7	12sC70	12h★	2⅞	10.000	12⅞	2 5/16	1½	87.7
12sC	7	12sC70-14	14h	3⅜	10.000	14⅝	2 5/16	2	98.9
12sC	7¾	12sC78	12h★	2⅞	10.000	13⅝	2 5/16	1½	91.5
12sC	7¾	12sC78-14	14h	3⅜	10.000	15⅝	2 5/16	2	103.3
12sC	10	12sC100-14	14h	3⅜	10.000	17⅝	2 5/16	2	115.5
13sC	7¾	13sC78	13h★	3⅜	11.750	14⅝	2 11/16	1⅞	121.8
14sC	7¾	14sC78	14h	3⅜	13.875	15⅝	3¼	2	179.4

★ short (hs) hub also available.
• approximate weight for completely assembled spacer coupling.
[1] 4JsC35 × 1⅛ has a shallow keyway.
[2] "l" dimension and weight will change if one or two short (hs) hubs are used.
note: refer to page C-23 to order — specify components separately.

Type SC Flanges and Hubs



Type SC Flanges and Hubs

tables below provide dimensional information for Quadra-Flex® Flanges and hubs used for spacer Couplings. assembled dimensions are listed on opposite page. any of the sleeves shown on page C-14 can be used.

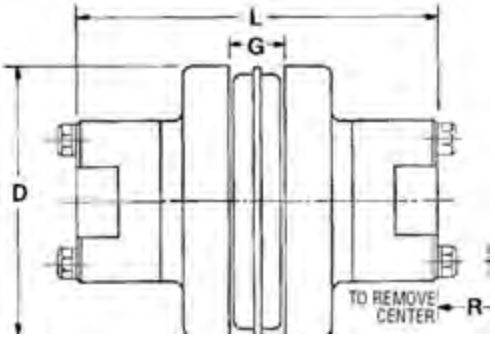
Coupling Size	Flange Number	For Distance Between Shafts★	For Hub	Dimensions					Weight (Lbs.)•
				D	E	H	C	T	
4JsC	4sC35	3½	4h	2.460	7/16	2	7/8	7/16	1.2
5sC	5sC35	3½	5h	3.250	51/64	2	1 11/16	19/32	1.2
6sC	6sC35	3½	6h	4.000	19/32	2½	1⅝	23/32	2.0
	6sC44	4⅜	6h	4.000	1 1/32	2½	2 1/16	23/32	2.4
	6sC50	5	6h	4.000	1 11/32	2½	2⅜	23/32	2.7
7sC	7sC35	3½	7h	4.625	15/32	2 13/16	1⅝	25/32	2.3
	7sC44	4⅜	7h	4.625	29/32	2 13/16	2 1/16	25/32	2.8
	7sC50	5	7h	4.625	1 7/32	2 13/16	2⅜	25/32	3.1
8sC	8sC35	3½	8h	5.450	9/32	3¼	1⅝	29/32	3.5
	8sC35-10	3½	10h-10hs	5.450	9/32	4⅜	1⅝	29/32	3.4
	8sC44	4⅜	8h	5.450	23/32	3 1/4	2 1/16	29/32	4.2
	8sC50	5	8h	5.450	1 1/32	3¼	2⅜	29/32	4.6
	8sC50-10	5	10h-10hs	5.450	1 1/32	4⅜	2⅜	29/32	5.3
9sC	9sC35	3½	9h-9hs	6.350	1/16	3⅝	1 11/16	1 1/32	5.1
	9sC44	4⅜	9h-9hs	6.350	7/16	3⅝	2 1/16	1 1/32	5.8
	9sC50	5	9h-9hs	6.350	¾	3⅝	2⅜	1 1/32	6.4
	9sC50-11	5	11h-11hs	6.350	¾	5¼	2⅜	1 1/32	6.9
	9sC70-11	7	11h-11hs	6.350	1¾	5¼	3⅜	1 1/32	10.9
	9sC78-11	7¾	11h-11hs	6.350	2⅛	5¼	3¾	1 1/32	12.1
10sC	10sC48	4¾	10h-10hs	7.500	1/32	4⅜	2¼	1 7/32	9.8
	10sC50	5	10h-10hs	7.500	15/32	4⅜	2⅜	1 7/32	10.1
	10sC70-13	7	13h-13hs	7.500	1 15/32	6⅛	3⅜	1 7/32	14.5
	10sC78-13	7¾	13h-13hs	7.500	1 27/32	6⅛	3¾	1 7/32	16.3
	10sC100-13	10	13h-13hs	7.500	2 31/32	6⅛	4⅞	1 7/32	22.5
11sC	11sC48	4¾	11h-11hs	8.625	1/32	5¼	1½	1½	12.5
	11sC50	5	11h11hs	8.625	1/16	5¼	1 9/16	1½	12.7
	11sC70-14	7	14h	8.625	1 1/16	6½	2 9/16	1½	16.1
	11sC78-14	7¾	14h	8.625	1 7/16	6½	2 15/16	1½	18.3
	11sC100-14	10	14h	8.625	2 9/16	6½	4 1/16	1½	24.5
12sC	12sC70	7	12h-12hs	10.000	21/32	5¾	2 15/32	1 11/16	23.2
	12sC70-14	7	14h	10.000	21/32	6½	2 15/32	1 11/16	21.2
	12sC78	7¾	12h-12hs	10.000	1 1/32	5¾	2 27/32	1 11/16	25.1
	12sC78-14	7¾	14h	10.000	1 1/32	6½	2 27/32	1 11/16	23.4
	12sC100-14	10	14h	10.000	2 5/32	6½	3 3/32	1 11/16	29.5
13sC	13sC78	7¾	13h-13hs	11.750	9/16	6⅛	3¼	1 31/32	38.4
14sC	14sC78	7¾	14h	13.875	1/32	6½	2 23/32	2¼	55.0

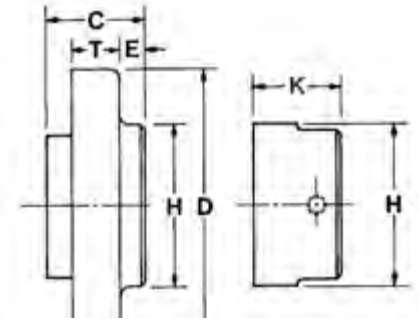
★ Flanges can be mixed to form different Between-shaft dimensions. see chart on page 23.
• approximate weight for each flange.

SC Spacer
Hub Bores









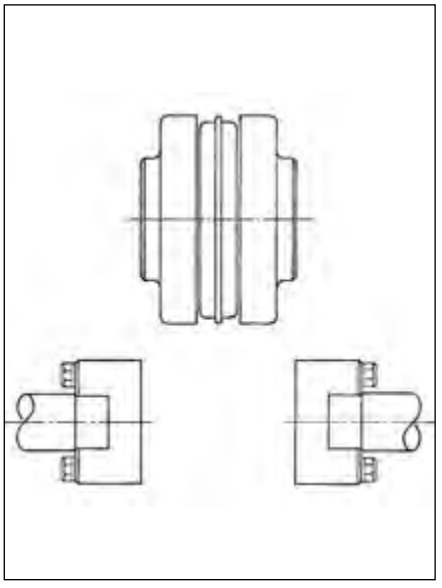
Coupling Size	Hub Number	Max. Bore	Stock Bores		Dimensions			Weight (Lbs.)•
			Plain Bore	Bore with Standard Keyway and Setscrew	K	H	Cap Screws Furnished	
4JsC	4h	1⅛	½	⅝ - ⅞ - 1 - 1⅛★	1⅝	2	4 — 10 × 2	1.1
5sC	5h	1⅛	½	⅝ - ¾ - ⅞ - 1 - 1⅛	1^{3}⁄$_{32}$	2	4 — 10 × 1½	.7
6sC	6h	1⅜	⅝	¾ - ⅞ - 1 - 1⅛ - 1¼ - 1⅜	1^{7}⁄$_{32}$	2½	4 — ¼ × 1¾	1.3
7sC	7h	1⅝	⅝	⅞ - 1 - 1⅛ - 1⅜ - 1½ - 1⅝	1^{15}⁄$_{32}$	2^{13}⁄$_{16}$	4 — ¼ × 1⅞	1.9
8sC	8h	1⅞	¾	⅞ - 1 - 1⅛ - 1⅜ - 1½ - 1⅝ - 1¾ - 1⅞	1^{23}⁄$_{32}$	3¼	4 — ^{5}⁄$_{16}$ × 2¼	3.2
9sC	9h	2⅛	⅞	1 - 1⅛ - 1⅜ - 1½ - 1⅝ - 1¾ - 1⅞ - 2⅛	1^{31}⁄$_{32}$	3⅜	4 — ⅜ × 2¾	4.4
	9hs	1½	....	1⅛	1^{17}⁄$_{32}$	3⅝	4 — ⅜ × 2¼	3.7
10sC	10h	2⅜	1⅛	1⅝ - 1⅞ - 2⅛ - 2⅜	2^{11}⁄$_{32}$	4⅜	4 — ^{7}⁄$_{16}$ × 3	7.3
	10hs	1⅝	....	1⅛	1^{21}⁄$_{32}$	4⅜	4 — ^{7}⁄$_{16}$ × 2½	5.5
11sC	11h	2⅞	1⅛	1⅞ - 2⅛ - 2⅜ - 2⅞	2^{23}⁄$_{32}$	5¼	4 — ½ × 3½	12.2
	11hs	1⅞	....	1⅛ - 1⅝	1^{29}⁄$_{32}$	5¼	4 — ½ × 2¾	9.3
12sC	12h	2⅞	1⅞	1⅞ - 2⅛ - 2⅜ - 2⅞	2^{31}⁄$_{32}$	5¾	4 — ⅝ × 4	16.6
	12hs	2½	....	2⅜	2^{17}⁄$_{32}$	5¾	4 — ⅝ × 3½	14.1
13sC	13h	3⅜	....	2⅜ - 2⅞ - 3⅜	3^{1}⁄$_{32}$	6⅛	4 — ⅝ × 4¾	19.9
	13hs	2½	....	2⅛ - 2⅜	2^{15}⁄$_{32}$	6⅛	4 — ⅝ × 3½	16.0
14sC	14h	3⅜	....	2⅜ - 2⅞ - 3⅜ - 3⅞	3^{27}⁄$_{32}$	6½	4 — ⅝ × 5	24.2

★ 4Js C × 1⅛ has a shallow keyseat.
• approximate weight for each hub.

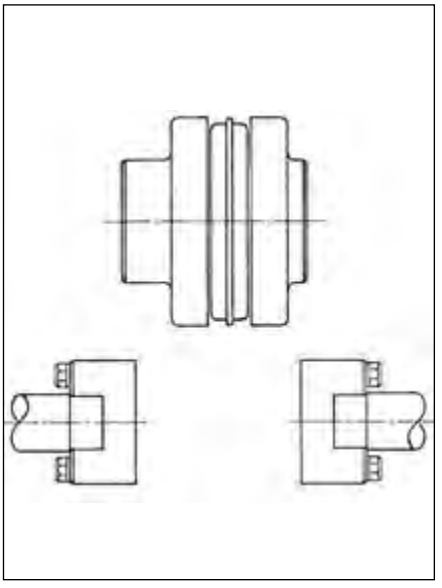
QUADRA-FLEX® Between-Shaft Spacings

spacer couplings are available with the most popular between shaft dimensions. spacings other than standard can be achieved by mixing flanges.

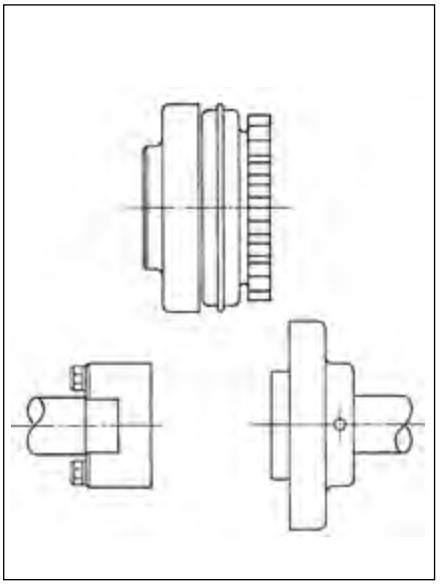
the "standard" column provides spacings using identical flanges; the "Combination" column provides spacings with mixed flanges; the column headed "semi-spacer" uses one flange that is not made for spacer coupling and therefore does not have a detachable hub.



Standard



Combination



Semi-Spacer

Standard	
Spacing	**Use Flanges★**
3½	2 - ( ) sC35
4⅜	2 - ( ) sC44
5	2 - ( ) sC50
7	2 - ( ) sC70
7¾	2 - ( ) sC78
10	2 - ( ) sC100

Combination	
Spacing	**Use Flanges★**
3 15/16	sC35 & sC44
4¼	sC35 & sC50
4 11/16	sC44 & sC50
5¼	sC35 & sC70
5⅝	sC35 & sC78
5 11/16	sC44 & sC70
6	sC50 & sC70
6 1/16	sC44 & sC78
6⅝	sC50 & sC78
6¾	sC35 & sC100★★
7 3/16	sC44 & sC100★★
7⅜	sC70 & sC78
7½	sC50 & sC100
8½	sC70 & sC100
8⅞	sC78 & sC100

Semi-Spacer	
Spacing	**Use Flanges★**
1⅞	s & sC35
2 5/16	s & sC44
2⅝	s & sC50
3⅝	s & sC70
4	s & sC78
5⅛	s & sC100

★ Check individual coupling size for flange availability.

★★ non-stock

note: other combinations available — consult factory.

Installation Instructions

Martin Quadra-Flex® flanges (hubs) and elastomeric elements (sleeves) come in a wide range of sizes and types. First, determine the size and type of coupling components required. remove all components from their boxes and loosely assemble the coupling. do not install the wire ring on the two piece sleeves at this time. Check maximum rpm values in table against operating speeds.

Martin em sleeves are rated the same as other epdm and neoprene sleeves, and may be used interchangeably; however, hytrel sleeves are rated at different values and may not be interchanged with Martin em sleeves, or the epdm and neoprene sleeves. Check horsepower and torque ratings when selecting hytrel sleeves.

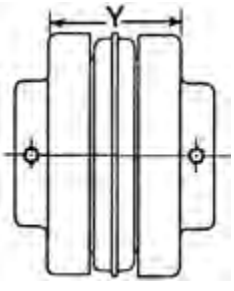


Step 1. *Make sure the motor driving the part or components is locked out electrically in such a manner that it cannot be started by anyone, however remote from the area.* the same type of lockout procedure applies to any other driving device which may be used. Failure to follow these instructions may result in personal injury or property damage.

Step 2. prepare shafts for coupling installation. Inspect all coupling components and remove any protective coating or lubricants from bores, mating surfaces, and fasteners.

Step 3. slide one coupling flange onto each prepared shaft using key stock where required. With the Qd type B flange, it may be necessary to expand the Qd bushing bore for ease of installation.

Step 4. position the flange on the shafts to acheive the approximate "y" dimension (distance between flanges) shown in table. It is best to have equal shaft length into each flange. tighten one flange in position, and slide the other flange sufficient distance back to install sleeve. do not install wire ring on two piece sleeve in its final position at this time, but allow it to hang loosely in groove next to teeth.





Step 5. slide loose flange on the shaft until the sleeve has seated completely in teeth of both flanges. refer to "y" dimension although not a critical dimension. secure the flange to shaft and torque set screws and cap screws to correct torque values.



Parallel



Angular

Step 6. Check parallel alignment by placing a straight edge across the two coupling flanges and measure the maximum offset at several points around the periphery of coupling. **Do not** rotate coupling when taking these measurements. refer to table for maximum allowed offset of parallel alignment. realign the coupling if necessary.

Step 7. Check angular alignment with a micrometer, vernier, or caliper. take measurement from outside to outside of flanges at several points around the periphery of coupling. **Do not** rotate coupling when taking these measurements. determine the difference between maximum and minimum dimensions and check to make sure they do not exceed the angluar figure on the table. If a correction is necessary, recheck parallel alignment.

Maximum RPM and Allowable Misalignment

(Dimensions in Inches)

Sleeve Size	Max. RPM	Types JEM, EM, E and N			★Type H & HS		
		Parallel	Angular	Y	Parallel	Angular	Y
3	9200	.010	.035	1.188	—	—	—
4	7600	.010	.043	1.500	—	—	—
5	7600	.015	.056	1.938	—	—	—
6	6000	.015	.070	2.438†	.010	.016	2.500
7	5250	.020	.081	2.563	.012	.020	2.625
8	4500	.020	.094	2.938	.015	.025	3.000
9	3750	.025	.109	3.500	.017	.028	3.563
10	3600	.025	.128	4.053	.020	.032	4.125
11	3600	.032	.151	4.875	.022	.037	4.938
12	2800	.032	.175	5.688	.025	.042	5.750
13	2400	.040	.195	6.688	.030	.050	6.688
14	2200	.045	.242	7.750	.035	.060	7.813
16	1500	.062	.330	10.250	—	—	—

note: values shown above may apply if the actual torque transmitted is more than ¼ the coupling rating. For lesser torque, reduce the above values by ½.

★ type h & hs sleeves should not be used as direct replacements for Jem or em sleeves.

† value when using 6J flanges is 2.125.

Step 8. If the coupling employs the two-piece sleeve with wire ring, install ring in center groove of sleeve.

note: some force may be required to seat the ring in groove.

Step 9. Install protective guards and/or shields per osha and any other additional local or state safety codes as required.

WARNING: Coupling sleeves may be forced from coupling when subjected to a severe shock load or abuse.

Stock Flexible Couplings



Type TBH



Type TBF



Bored to Size and Stock Bore



QD



Covers

Stock Flexible Couplings

All Martin chain couplings have hardened teeth

Bored to Size Couplings With Finished Bore, Keyway, and Set Screw

Coupling Number	Stock Finishd Bores Include Standard Keyway and Setscrew	A	B	C	L	Coupling O. D.	Weight Lbs.
4012	½, ⅝, ¾	1 13/32	1⅛	9/32	2 17/32	2 13/32	.4
4016	⅝, ¾, ⅞, 15/16, 1, 1⅛, 1 3/16, 1¼	1 31/32	1⅛	9/32	2 17/32	3 1/32	.8
5016	¾, ⅞, 1, 1⅛, 1 3/16, 1¼, 1⅜, 1 7/16, 1½, 1⅝	2½	1 7/16	⅜	3¼	3 25/32	1.6
5018	¾, ⅞, 1, 1⅛, 1 3/16, 1¼, 1⅜, 1 7/16, 1½, 1⅝, 1¾, 1⅞, 1 15/16	2 31/32	1 11/16	⅜	3¾	4 3/16	2.4
6018	1, 1⅛, 1 3/16, 1¼, 1⅜, 1 7/16, 1½, 1⅝, 1¾, 1⅞, 1 15/16, 2, 2⅛, 2 3/16, 2¼, 2⅜, 2 7/16	3½	1⅞	7/16	4 3/16	5	4.8
6020	1⅛, 1¼, 1½, 1¾, 1 15/16, 2⅛, 2⅜, 2 7/16, 2⅝	3⅞	2	7/16	4 7/16	5½	5.2
6022	1⅛, 1¾, 1⅞, 1 15/16, 2⅛, 2⅜, 2 7/16, 2⅝, 2¾, 2⅞	4½	2⅛	7/16	4 11/16	5 61/64	7.8
8018	1⅛, 1¾, 1 15/16, 2, 2⅛, 2⅜, 2 7/16, 2⅝, 2⅞, 2 15/16	4 9/16	2⅜	37/64	5 21/64	6 21/32	9.5
8020	1½, 2 3/16, 2 7/16, 2 11/16, 2 15/16, 3⅛, 3⅜, 3 7/16	5⅜	2⅝	37/64	5 53/64	7 19/64	13.4
10018	1½, 2 7/16, 2⅞, 2 15/16, 3 7/16	5 11/16	2¾	23/32	6 7/32	8 21/64	18.2
10020	2, 3⅜, 3 7/16, 3 15/16	6 23/32	3⅛	23/32	6 31/32	9⅛	25.0
12018	3 7/16, 3 15/16, 4 7/16	6¾	3½	55/64	7⅞	10	28.0
12022	4⅜, 4 7/16, 4 15/16	8¾	4	55/64	8⅞	11 57/64	55.0

Caut lo n: all rotating power transmission products are potentially dangerous and must be properly guarded for the speeds and applications for which they were intended.

QD Couplings

Coupling Number	Bushing Used	Max. Bore★★	A	B	D	C	L	Coupling O. D.	K†	Weight Lbs.
4016Ja	Ja	1	2	⅞	1 5/16	9/32	2 29/32	3 1/32	1¼	.9
5018sh	sh	1⅜	2 31/32	1	1½	⅜	3⅜	4 3/16	1¾	1.3
6020sK	sK	2⅛	3⅞	1¼	1⅞	7/16	4 3/16	5½	2¼	2.5
8018sF	sF	2 5/16	4 9/16	1¾	2⅜	37/64	5 21/64	6 21/32	2¼	5.3

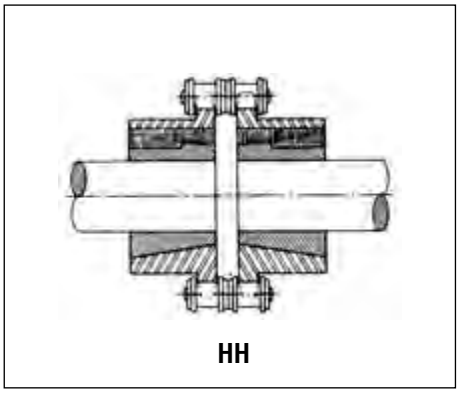
★★ maximum bore shown is the maximum bore with standard keyway. It is recommended that this maximum not be exceeded in both halves of a coupling.
† minimum clearance required to remove the coupling half by using the screws as jack screws.

Taper Bushed Couplings Type TBH and TBF

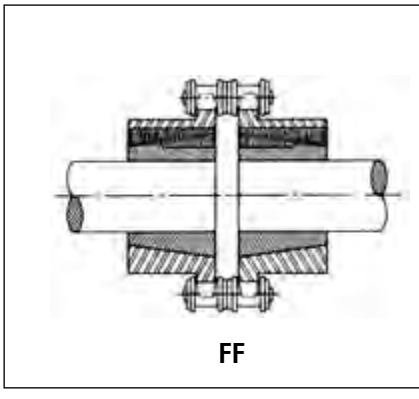
Type TBH Coupling Number	Type TBF Coupling Number	Bushing Data			A	B	C	J*	K†	L	OD	Weight Lbs.
		Bushing Used	Max. Bore	Min. Bore								
4016tBh	4016tBF	1108	1⅛	½	1 31/32	⅞	9/32	⅝	¾	2 1/32	3 1/32	.9
5018tBh	5018tBF	1610	1⅝	½	2 31/32	1	⅜	13/16	1 1/16	2⅜	4 3/16	1.1
6020tBh	6020tBF	2012	2	½	3⅞	1¼	7/16	15/16	1⅜	2 15/16	5½	2.7
8020tBh	8020tBF	3020	3	15/16	5⅜	2	37/64	1 3/16	2 1/16	4 37/64	7 19/64	6.1
10020tBh	10020tBF	3535	3½	1 3/16	6 23/32	3½	23/32	2	2⅝	7 23/32	9⅛	19.0

* space needed for (1) tightening bushing with shortened hex key (2) loosening screws for puller to remove hub.
† minimum clearance required to remove the coupling half by using the screws as jack screws with shortened hex key.

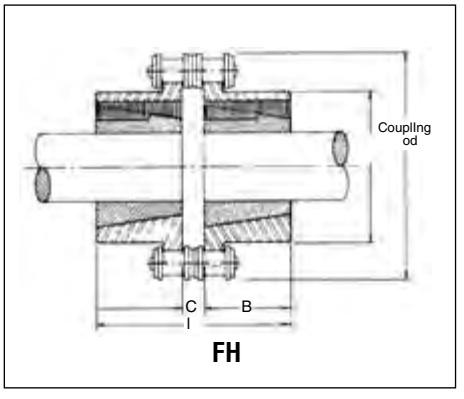
Our Standard Covers Fit These Couplings



HH

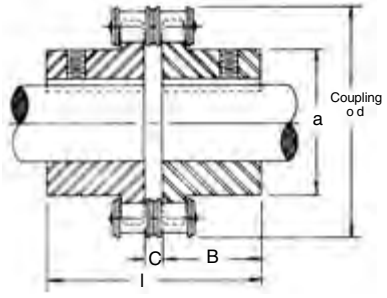


FF



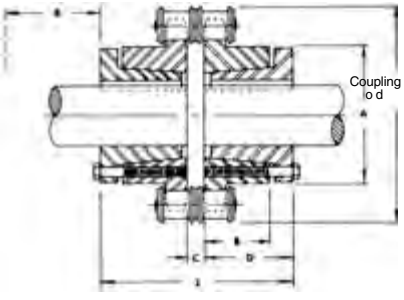
FH

Stock Flexible Couplings





BS Coupling





QD Coupling



Type TBF



Type TBH

All Martin chain couplings have hardened teeth

Coupling Selection

r oller chain couplings have a torque capacity in excess of the torque normally transmitted by shafting which falls within the coupling bore range. s elect the smallest coupling which will accomodate both shafts. For a reversing operation, shock or pulsating loads, or other severe operating conditions, select the next larger coupling size.

a cover should be used to assure maximum service life, particularly if the coupling operates at high speeds or under moist conditions. For proper lubrication, fill the space between the cover and the coupling with soft to medium consistency coupling grease.

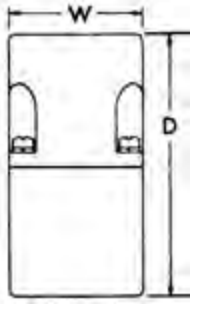
Coupling With Plain Bores for Reboring

Coupling Number	Maximum Bore Inches	Minimum Plain Bore Inches	Weight (Lbs.)	Recommended Maximum RPM	Coupling Chain Number	Weight Lbs.
4012	⅞	7/16	.5	5000	4012 Chn	.4
4016	1 5/16	⅝	1.0	5000	4016 Chn	.5
5016	1 11/16	⅝	2.2	4000	5016 Chn	1.2
5018	2	¾	3.5	3600	5018 Chn	1.3
6018	2 7/16	1	5.0	3000	6018 Chn	2.2
6020	2¾	1⅛	6.5	2500	6020 Chn	2.6
6022	3	1⅛	9.4	2500	6022 Chn	2.7
8018	3⅛	1⅛	11.0	2000	8018 Chn	5.3
8020	3 3/16	1½	16.3	2000	8020 Chn	5.9
10018	3⅞	1½	20.3	1800	10018 Chn	9.8
10020	4⅝	1½	31.8	1800	10020 Chn	10.9
12018	4 11/16	2	36.8	1500	12018 Chn	17.3
12022	6⅛	2	70.0	1200	12022 Chn	21.2

Stock Coupling Covers

Covers Fit t aper Bushed, Qd and s tock, and Finished Bore Couplings. Covers allow excellent lubrication, and their use is recommended to obtain maximum coupling life. Covers are of aluminum or plastic, and are made in halves for easy installation. s ynthetic rubber oil seals, which contact the coupling hubs, retain the lubricant and prevent the entry of dirt. Covers are fitted with gaskets between the halves.



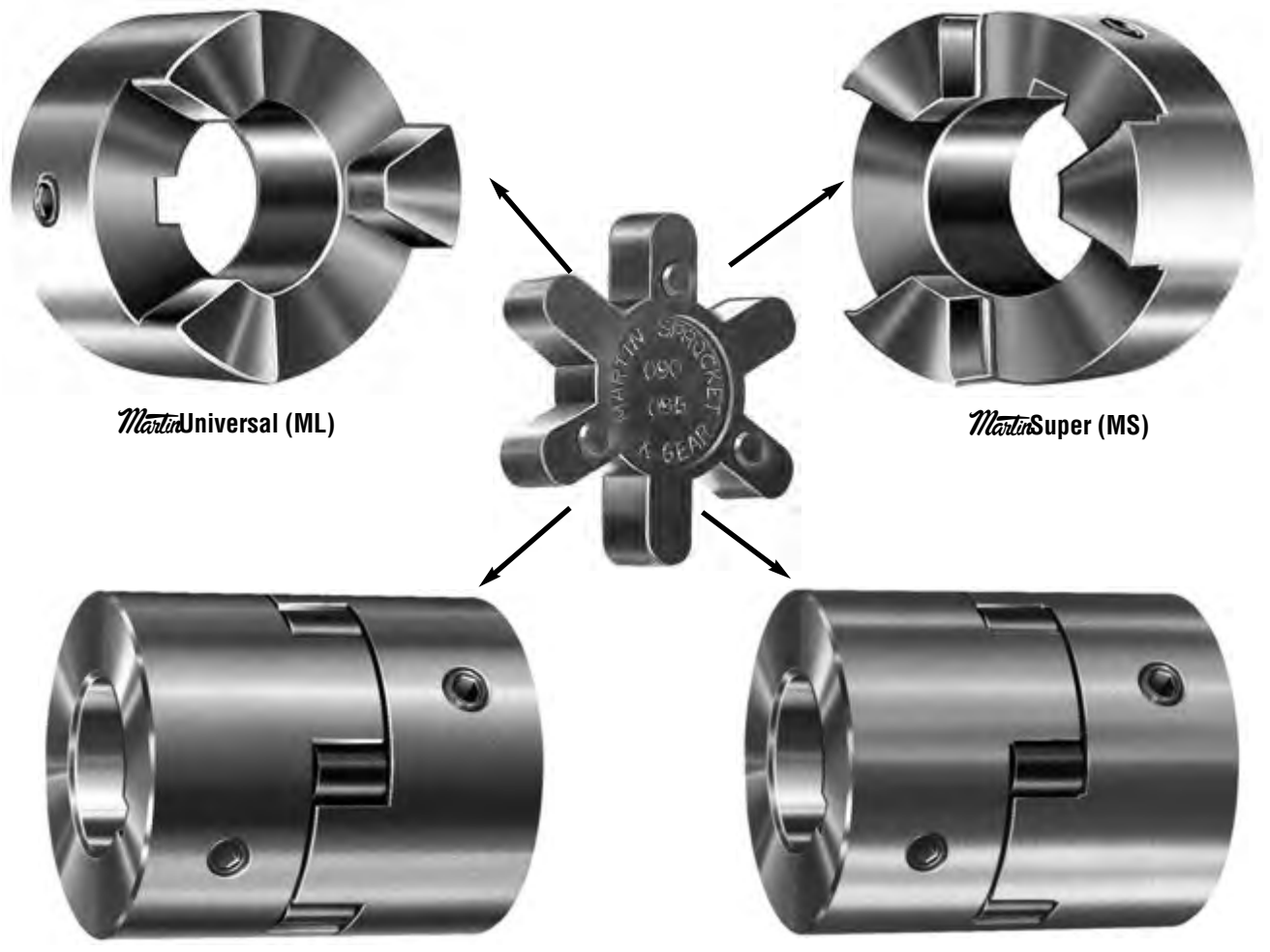


aluminum and plastic

Cover Cat. No.	Aluminum D	Aluminum W	Plastic D	Plastic W	Wt. Lbs.
4012Cov**	4	2	4	2 5/16	.78
4016Cov**	4	2	4	2 5/16	.92
5016Cov**	5⅛	2⅜	5⅛	2⅝	1.30
5018Cov**	5⅛	2⅜	5⅛	2⅝	1.30
6018Cov**	6⅜	2 15/16	6⅜	3 1/16	2.44
6020Cov**	6⅜	2 15/16	6⅜	3 1/16	2.44
6022Cov*	8 3/16	4	8 3/16	4	4.88
8018Cov	8 3/16	4	8 3/16	4	4.88
8020Cov	8 3/16	4	8 3/16	4	4.88
10018Cov	9⅜	5 15/16	9⅜	5 15/16	8.76
10020Cov	10⅛	5¼	10⅛	5¼	12.66
12018Cov	11⅜	7⅜	11⅜	7⅜	16.46
12022Cov	13¼	7 15/16	13¼	7 15/16	19.50

* u se 8018 cover — s pecial s eals a vailable
** Furnished in p lastic unless specified with “a l ” s uffix when ordering.

Flexible Jaw Couplings



Martin Universal (ML)

Martin Super (MS)

Now Martin Offers Two Styles

The Martin Super — Higher Horsepower

The Martin Universal — Completely Interchangeable

- no lubrication
- easy Installation
- no metal to metal Contact
- resistant to oil, dirt, sand, moisture, grease
- easy inspection of load carrying spider
- Flexibility of angular or parallel misalignment of shafts by Buna-n spider member permits smooth “power transmission”

Stock Jaw Couplings

Jaw Coupling Selection Procedure

a. determine service Factor by matching driven unit with prime mover in service Factor guide.
B. multiply service Factor by driven unit or motor h.p. to obtain adjusted h.p.
C. select Flexible Coupling with horsepower Capacity equal to or greater than adjusted h.p.

Service Factor Guide	Prime Mover		
Driven Unit (Machinery)	Electric Motor or Steam Turbine	Gasoline or Diesel Engine, 6 or More Cyl.	Gasoline or Diesel Engine, Less Than 6 Cyl.
Light: uniform or steady load never exceeding horsepower rating, infrequent starting. agitators, Blowers, Conveyors, evaporators, Fans, generators, Centrifugal pumps, stokers	1.0	1.5	2.0
Moderate: heavy inertia, moderate shock, frequent starting; peak loads do not exceed 125 per cent average horsepower. uneven load. Beaters, rotary pumps and Compressors, Cranes, elevators, mine and propellor Fans, generators, pulp grinders, hoists, Kilns, machine tools, mixers, gear pumps, Woodworking machines	1.5	2.0	2.5
Heavy: heavy shock conditions or frequent reversing. peak loads do not exceed 150 per cent average horsepower. uneven load. reciprocating pumps and Compressors, Crushers, Freight and passenger elevators, mills (hammer, Ball, rolling, turf, Flour), vibrating screens, Winches, Wire drawing machines, punches, shears	2.0	2.5	3.0







Bore tolerances:
0.5 – 1.75 + 0.001 – 0.000
1.8125 – 2.625 + 0.0015 – 0.0000

MartinML (Universal Series) — Torque and Horsepower Ratings

Catalog Number	Stainless Steel Catalog Number	Torque Rating Lb. — In.		Buna-N Horsepower Capacity at Various RPM					Max. Bore	(Each) Weight
		Buna-N	Hytrel®	100	300	1200	1800	3600		
ml035	ml035ss	3.5	–	0.006	0.02	0.07	0.10	0.20	0.375	0.10
ml050	ml050ss	31.5	94.5	0.05	0.15	0.60	0.9	1.8	0.625	0.15
ml070	ml070ss	42	126	0.07	0.21	0.84	1.2	2.5	0.750	0.31
ml075	ml075ss	81	242	0.13	0.39	1.56	2.3	4.7	0.875	0.45
ml090	ml090ss	140	420	0.22	0.66	2.64	4.0	7.9	1.125	0.75
ml095	ml095ss	189	567	0.30	0.90	3.6	5.4	10.8	1.125	0.89
ml099	ml099ss	290	870	0.46	1.4	5.5	8.3	16.6	1.375	1.02
ml100	ml100ss	416	1248	0.66	2.0	7.9	11.9	23.8	1.375	1.48
ml110	ml110ss	756	2268	1.2	3.6	14.4	21.6	43.2	1.625	3.18
ml150	ml150ss	1197	3591	1.9	5.7	22.8	34.2	68.4	1.875	4.83
ml190	ml190ss	1512	4536	2.4	7.2	28.8	43.2	86.4	2.125	7.65
ml225	ml225ss	2268	6804	3.6	10.8	43.2	64.8	129.6	2.625	10.66

note: above h.p. capacities are for Buna-n rubber spider and service factor of one. When hytrel spider is used multiply capacities by three.

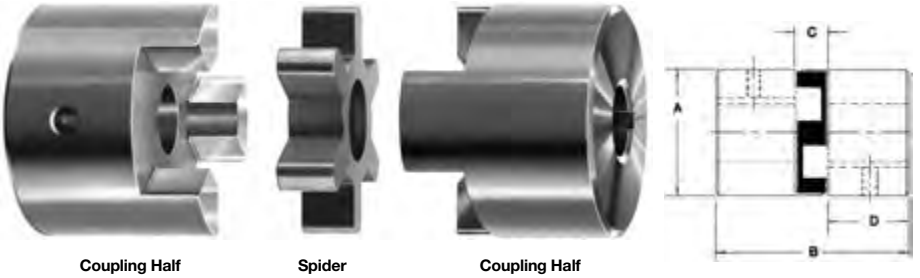
MartinMS (Super Series) — Torque and Horsepower Ratings

Catalog Number	Torque Rating Lb. — In.		Buna-N Horsepower Capacity at Various RPM					Max. Bore	(Each) Weight
	Buna-N	Hytrel®	100	300	1200	1800	3600		
ms050	37.3	112	0.06	0.18	0.71	1.0	2.1	0.625	0.13
ms070	59.4	178	0.09	0.28	1.1	1.7	3.4	0.750	0.25
ms075	157	471	0.25	0.75	3.0	4.5	8.9	0.875	0.53
ms090	241	723	0.38	1.1	4.6	6.9	13.7	1.125	0.58
ms095	241	723	0.38	1.1	4.6	6.9	13.7	1.125	0.70
ms099	512	1536	0.81	2.4	9.7	14.6	29.2	1.325	1.12
ms100	512	1536	0.81	2.4	9.7	14.6	29.2	1.325	1.43
ms110	1014	3042	1.6	4.8	19.3	28.9	57.8	1.325	3.24
ms150	1630	4890	2.6	7.7	31.0	46.5	93.0	1.875	4.76
ms190	2450	7350	3.9	11.6	46.6	69.9	139.7	2.125	7.66
ms225	2920	8760	4.6	13.9	55.5	83.2	166.5	2.625	10.76

NOTE: above h.p. capacities are for Buna-n rubber spider and service factor of one. When hytrel spider is used multiply capacities by three.
Misalignment Capacities: Angular up to 1°, Parallel up to .015 inches.

hytrel is a registered trademark of e.i. du pont & Co.

Stock Jaw Couplings



Coupling Half Spider Coupling Half

Dimensions

Catalog Number	Hub Dia. A	Overall Length B	Distance Betw. Flanges C	Length Thru Bore D	Bore		Weight Lbs.
					Min.	Max.	
ml035	5/8	13/16	9/32	17/64	1/8	3/8	.07
ml or ms050	1 1/16	1 23/32	15/32	5/8	1/4	5/8	.13
ml or ms070	1 3/8	2	1/2	3/4	1/4	3/4	.25
ml or ms075	1 3/4	2 1/8	1/2	13/16	1/4	7/8	.44
ml or ms090	2 1/8	2 1/8	1/2	13/16	1/4	1 1/8	.69
ml or ms095	2 1/8	2 1/2	1/2	1	7/16	1 1/8	.84
ml or ms099	2 17/32	2 7/8	3/4	1 1/16	1/2	1 3/8	1.19
ml or ms100	2 17/32	3 1/2	3/4	1 3/8	1/2	1 3/8	1.47
ml or ms110	3 5/16	4 1/4	7/8	1 11/16	1/2	1 5/8	3.20
ml or ms150	3 3/4	4 1/2	1	1 3/4	5/8	1 7/8	4.50
ml or ms190	4 1/2	4 7/8	1	1 15/16	3/4	2 1/8	8.25
ml or ms225	5	5 3/8	1	2 3/16	3/4	2 5/8	12.00

Bore sizes are standard in 1/16" increments from minimum to maximum bore range and have keyway and set screw except as shown below:
1/8 through 3/8 Bore — no KW — no ss
#050 — 7/16 through 5/8 Bore — no KW — 1-ss
#070, 075, 090, 095 — 7/16 and 1/2 Bore — no KW — 1-ss
#099, 100, 110 — 1/2 Bore — no KW — no ss
#150 — 5/8 Bore — no KW — no ss
#190, 225 — 3/4 Bore — no KW — no ss
note: In each coupling size a min. plain bore is available that can be used to make special bores such as spline, hex, metric, or other shapes or sizes.

For standard Keyway sizes see Martin Catalog, page e-158 and e-159.

Coupling Selection Chart for 60 Hz Nema Motor Frames Based on Buna-N (Rubber) Spider ★†

Shaft Diameter	Nema Frame	Coupling Size	Max. Horsepower Rating @ RPM					
			1140		1725		3450	
			MS	ML	MS	ML	MS	ML
3/8	42	050	1/2	1/2	1	3/4	2	1 1/2
1/2	48	050	1/2	1/2	1	3/4	2	1 1/2
5/8	56,56 h	050	1/2	1/2	1	3/4	2	1 1/2
3/4	66	070	1	3/4	1 1/2	1	3	2
7/8	56hz, 143t, 145t 182, 184	075 090	2 3	1 2	3 5	2 3	7 1/2 10	3 7 1/2
1 1/8	182t, 184t, 213 215	095 099	3 7 1/2	3 5	5 10	5 7 1/2	10 25	10 15
1 3/8	213t, 215t, 245u, 256u	100	7 1/2	7 1/2	10	10	25	20
1 5/8	254t, 256t, 248u, 286u	110	15	10	25	20	50	40
1 7/8	284t , 286t, 324u, 326u, 326ts	150	30	20	40	30	75	60
2 1/8	324t, 326t, 364u, 365u	190	40	25	60	40	125	75
2 3/8	364t, 365t	225	50	40	75	60	150	100

NOTE: Coupling sizes are based on the rated torque, max. bore and a have a service factor of 1.0.

★ When using Hytrel or Bronze spider multiply above horsepower ratings by 3.
† When using Urethane spider multiply above horsepower ratings by 1.5.

Spiders — Buna-N (Rubber) and Hytrel

Catalog Number		Accommodates Coupling	Net Weight Lbs.	
Buna-N	Hytrel		Buna-N	Hytrel
srl035	shl035	ml035	.009	.009
srl050	shl050	m 050 — ms 050	.013	.013
srl070	shl070	ml070 — ms 070	.017	.017
srl075	shl075	ml075 — ms 075	.03	.03
srl090	shl090	ml or ms090-095	.04	.04
srl099	shl099	ml or ms099-100	.07	.07
srl110	shl110	ml110 — ms110	.14	.14
srl150	shl150	m150 — ms150	.21	.21
srl190	shl190	ml190 — ms190	.27	.27
srl225	shl225	ml225 — ms225	.41	.41

urethane spiders available. please consult factory.

Spiders — Urethane† and Bronze★

Catalog Number		Accommodates Coupling	Net Weight Lbs.	
Urethane	Bronze★		Urethane	Bronze
sul035	sBl035	ml 035	.009	0.05
sul050	sBl050	ml050 — ms050	.013	0.08
sul070	sBl070	ml070 — ms070	.017	0.06
sul075	sBl075	ml075 — ms075	.03	0.15
sul090/095	sBl090/095	ml or ms 090-095	.04	0.17
sul 099/100	sBl099/100	ml or ms 099-100	.07	0.50
sul110	sBl110	ml110 — ms110	.14	0.62
sul150	sBl150	ml150 — ms150	.21	1.00
sul190	sBl190	ml190 — ms190	.27	1.30
sul225	sBl225	ml225 — ms225	.41	1.60

★ Bronze spiders available as made to order.



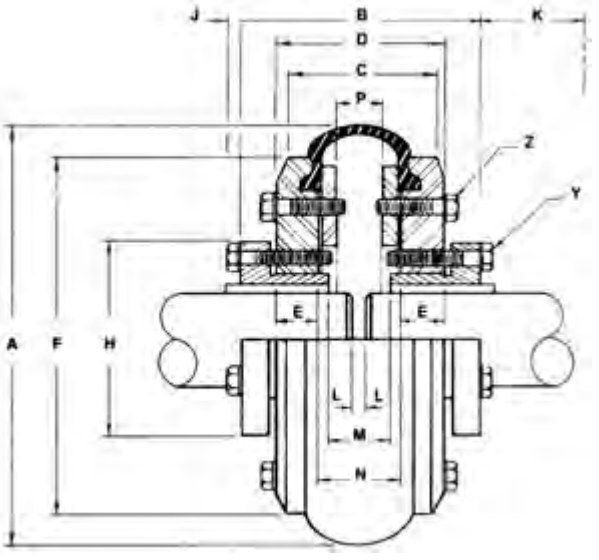
metric Bore sizes available
Consult Factory

Parts List and Engineering Data

Coupling Size	QD Bushing (2 Required Per Coupling)*	Steel Flange Assembly (2 Required Per Coupling)		Rubber Element (1 Required Per Coupling)		Max RPM	Horsepower @ 100 RPM (1.0 Factor)	Torque (1.0 Service Factor)		Average Static Torsional Stiffness Coefficient (K)		Approx. WR** (LB - Ft²)
		Flange No.	Weight Each	Element No.	Weight			LB - In	LB - Ft	LB - In/DEG	LB - In/RAD	
5	Ja	F5Ja	3.0	e5	.6	4500	1.03	649	54.1	244	12,850	.08
6	Ja	F6Ja	4.0	e6	.9	4000	1.80	1134	94.5	414	23,700	.22
7	sh	F7sh	7.0	e7	1.3	3600	3.12	1966	163.8	544	31,200	.40
8	sds	F8sds	8.0	e8	1.7	3100	4.68	2950	245.8	876	50,200	.70
9	sK	F9sK	13.0	e9	2.0	2800	6.90	4349	362.4	1088	62,400	1.33
10	sF	F10sF	17.0	e10	2.0	2600	8.33	5250	437.5	1530	87,700	2.10
11	sF	F11sF	18.0	e11	3.0	2300	9.92	6252	521.0	2420	138,700	2.90
12	e	F12e	31.0	e12	3.8	2100	14.40	9076	756.3	4014	217,000	5.80

* see page B5 for Qd bushing bore sizes and dimensions. rubber tire element also available in neoprene.
** Coupling plus Qd bushing.
Weight in pounds.





Dimensions

Coupling Size	A	B	C	D	E	F	H	J	K*	L	M	N	P	Y	Z Clamp Ring Bolts		
														B.C. Dia.	B.C. Dia.	No. and Size*** Capscrews	Torque In Lbs.
5	5¼	3 7/16	2 1/16	2 9/16	5/8	4	2	5/32	1¼	..	1 7/16	1 5/16	3/8	1.66	2 7/16	(5) ¼ - 20x1⅛	125
6	6½	3 9/16	2 3/16	2 11/16	5/8	4 15/16	2	5/32	1¼	..	1 9/16	1 7/16	½	1.66	3 5/16	(5) 5/16 - 18x1⅛	200
7	7⅜	4 5/16	2 11/16	3 3/16	13/16	5 5/8	2 11/16	7/32	1⅝	..	1 11/16	1 9/16	¾	2¼	3⅞	(5) 5/16 - 18x1¼	300
8	8⅜	4 7/16	2 13/16	3 5/16	13/16	6½	3 3/16	7/32	1⅝	..	1 13/16	1 11/16	⅞	2 11/16	4⅝	(6) 5/16 - 18x1½	300
9	9¼	5 3/16	3 1/16	3 15/16	1 1/16	7⅜	3⅞	9/32	2¼	..	1 7/16	1 13/16	⅞	3 5/16	5¼	(6) ⅜ - 16x1¾	400
10	10	5 13/16	3 9/16	4 1/16	1 1/16	8 5/16	4⅝	5/16	2¾	..	1 9/16	1 9/16	1	3⅞	6	(6) ⅜ - 16x1¾	400
11	11	5⅝	3⅛	3⅞	1 1/16	9	4⅝	5/16	2¾	..	1⅜	1⅜	15/16	3⅞	6½	(6) ⅜ - 16x1¾	400
12	12⅜	7¼	4	4¾	1⅜	10 1/16	6	7/16	3¼	..	1¼	1¼	¾	5	7¼	(6) ½ - 13x2¼	900

shaft ends are normally m or n apart; they may project beyond the bushings. In this case allow space for end float and misalignment.
* Clearance required to remove bushing using pull-up capscrews as jackscrews.
** grade 8.
dimensions in inches.

Other Sizes Available as Made-to-Order

Martin-Flex® Couplings

Martin Flex® flexible couplings smoothly transmit power while compensating for shaft misalignment to 4°, parallel misalignment to 1/8" and end float to 5/16". the two piece flange design provides quick and easy installation and the elastomeric element absorbs shock and torsional vibration through a wide temperature range.

Selection Procedure

1. select the proper service factor from Chart 1.
2. determine **Design Horsepower** by multiplying the **Service Factor** and the **Drive Horsepower.**
3. locate the intercept of **Shaft Speed** and **Design Horsepower** from Chart 2.
4. order per coupling: (2) bushings, (2) flange assemblies, (1) flexible tire element.

Chart 1 Service Factors

Application	Factor
AGITATORS	
Paddle or Propeller (Vert. or Horiz.), Screw	1.0
BREWING AND DISTILLING	
Bottling Machinery, Brew Kettle, Cooker (Cont. Duty), Mash Tub	1.0
Scale Hopper — Frequent Starting Peaks	1.5
CAN FILLING MACHINE	1.0
CAR DUMPER	1.5
CAR PULLER	1.5
CLARIFIER	1.0
CLASSIFIER	1.0
CLAY-WORKING MACHINES	
Brick Press, Briquette Machine, Clay Working Machine, Pug Mill	1.5
COMPRESSORS	
Lobe, Rotary	2.0
Reciprocating** —	
1 cyl. — single acting	3.5
1 cyl. — double acting	3.0
2 cyl. — single acting	3.0
2 cyl. — double acting	2.5
3 cyl.or more — single acting	2.5
3 cyl. or more — double acting	2.0
CONVEYORS	
Apron, Assembly, Belt, Chain, Flight, Oven	1.0
Reciprocating	2.5
Screw	1.0
CRANES AND HOISTS	
Main Hoist — Medium Duty	1.5
Main Hoist — Heavy Duty	2.0
Skip Hoist, Travel Motion, Trolley Motion, Slope	1.5
CRUSHERS	
Cane	2.0
Gyratory	2.5
DREDGES	
Cable Reel, Conveyor	1.5
Cutter Head Drive, Jog Drive	2.5
Pump, Screen Drive, Stacker, Utility Winch	1.5
DYNAMOMETER	1.0
ELEVATORS	
Bucket, Freight	2.0
EXCITER	1.0
FANS	
Centrifugal	1.0
Cooling Tower	2.0
Large (Mine, etc.)	1.5
Light	1.0
Propeller (indoor)	1.5
FOOD INDUSTRY	
Beet Slicer	1.5
Cereal Cooker	1.0
Dough Mixer, Meat Grinder	1.5
GENERATORS	
Even Load	1.0
Hoist or Railway Service	1.5
Welder Load	2.0
GRIZZLY	2.0
KILN	2.0
LAUNDRY MACHINES	
Tumbler, Washer	2.0
LINE SHAFTS	
Driving Processing Machinery	1.0
Light	1.0
LUMBER INDUSTRY	
Band Resaw, Circular Resaw	1.5
Edger, Head Rig, Hog, Log Haul	2.0
Planer	1.5
Rolls Non-Reversing	1.5
Rolls Reversing	2.0
Sawdust Conveyor	1.0
Slab Conveyor, Sorting Table	1.5
MACHINE TOOLS	
Auxiliary	1.0
Main Drive, Notching Press, Planer (Reversing), Plate Planer, Punch Press	1.5
Traverse	1.0

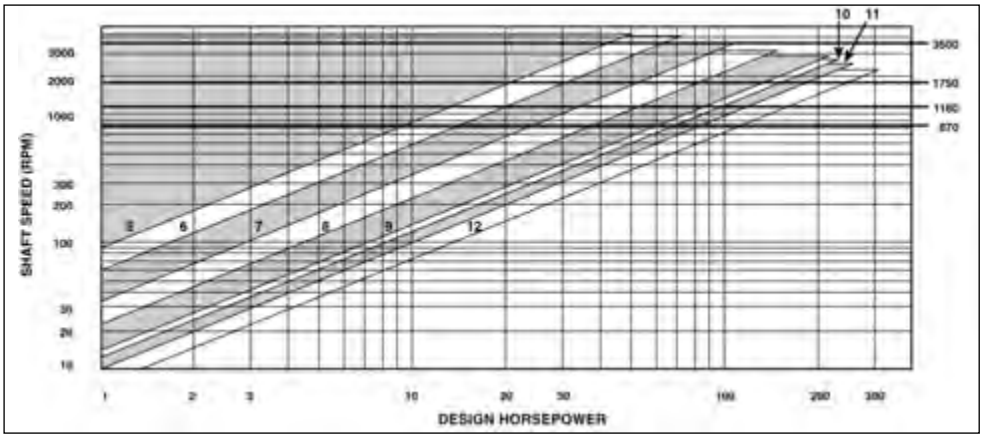
Application	Factor
METAL FORMING MACHINES	
Draw Bench Carriage, Main Drive, Extruder, Wire Drawing, Flattening Machine	2.0
MILLS (Rotary Type)	
Ball or Pebble Direct or	2.5
on LS Shaft Gear Reducer	2.5
on HS Shaft Gear Reducer	2.0
Dryer and Cooler	1.5
Rod or Tube Direct or	2.5
on LS Shaft Gear Reducer	2.5
on HS Shaft Gear Reducer	2.0
Tumbling Barrel	1.5
MIXERS	
Concrete (Continuous or intermittent), Muller-Simpson type	1.5
OIL INDUSTRY	
Chiller	1.0
Oil Well Pumping (not over 150% peak torque)	2.0
Paraffin Filter Press	1.5
PAPER MILLS	
Agitator	1.0
Barking Drum	2.5
Beater and Pulper	1.5
Bleacher	1.0
Calender	2.0
Chipper	3.0
Couch, Cylinder, Dryer	1.5
Felt Stretcher	1.0
Fourdrinier	1.5
Jordan	2.0
Press	2.0
Pulp Grinder	2.0
Stock Chest	1.5
Stock Pump Reciprocating	2.0
Rotary	1.5
Suction Roll	2.0
Winder	1.5
PARAFFIN FILTER PRESS	1.5
PRINTING PRESS	1.5
PROPELLER (Marine)	1.5
PULVERIZERS	
Hammermill — Light Duty	1.5
Hammermill — Heavy Duty	2.0
Hog	2.0
Roller	1.5
PUMPS	
Centrifugal	1.0
Descaling, Gear Type	1.5
Oil Well Pumping (not over 150% peak torque)	2.0
Rotary — other than gear	1.5
Reciprocating —	
1 cyl. — single acting	2.5
1 cyl. — double acting	2.0
2 cyl. — single acting	2.0
2 cyl. — double acting	1.5
3 cyl. — or more	1.5
RUBBER INDUSTRY	
Banbury Mixer	2.5
Calender	2.0
Cracker, Mixing Mill, Plasticator	2.5
Refiner, Sheeter, Tire Building Machine	2.0
Tire and Tube Press Opener (Based on Peak Torque)	1.0
Tuber and Strainer	1.5
Warming Mill	2.0
Washer	2.5
SCREENS	
Air Washing	1.0
Coal and Sand (Rotary)	1.5
Vibrating	2.5

Application	Factor
Water	1.0
SEWAGE DISPOSAL EQUIPMENT	1.0
SHOVEL	2.0
SHREDDER	1.5
STEEL INDUSTRY	
Cold Mills	
Coiler (up or down)	1.5
Strip, Temper	2.0
Hot Mills	
Coiler (up or down), Edger Drive	1.5
Feed Roll (Blooming), Roughing Mill Delivery (non-reversing), Sheet, Strip	3.0
Rod Mill	2.5
Soaking Pit Cover Drive	3.0
STEERING GEAR	1.0
STOKER	1.0
TEXTILE MILLS	
Batcher	1.0
Calender, Card Machine, Dry Can	1.5
Dyeing Machinery	1.0
Loom	1.5
Mangel, Napper, Soaper	1.0
Spinner, Tenter Frame	1.5
WINDLASS	1.5
WOODWORKING MACHINES	1.0

t he service factors listed are intended only as a general guide for smooth power sources such as electric motors and steam turbines. add 0.5 to factor for somewhat rougher power sources such as internal combustion engines of four or more cylinders, steam engines and water turbines. Where substantial shock occurs or starting or stopping is frequent as on some "inching" drives and on some reversing drives or where the power source is an internal combustion engine with less than four cylinders — consult factory. Where torsional vibrations occur as in, for example, internal combustion engines or reciprocating compressors or pump applications, check the coupling for possible development of damaging large amplitude vibrations.

** add 0.5 to factor if without flywheel.

Chart 2 Size Selection



BELT DRIVES

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Martin V-belt sheaves meet the toughest demands of industry, while continuing the Martin tradition of providing the utmost in service and maintaining unsurpassed manufacturing standards.

Totally committed to meeting the individual needs of customers, Martin Sprocket & Gear now serves the V-belt industry with extensive stock inventories, the capacity to meet large quantity requirements and the versatility to respond quickly to made-to-order applications.

NOMENCLATURE

QD

HI-CAP® WEDGE (Also Referred To As "Narrow")	CONVENTIONAL (Also Referred To As "Classical")
2 3V 220 JA	12 D 580 P
2 — Number of Grooves 3V — Belt Cross Section 220 — 2.2" *Outside* Diameter JA — Bushing Required	12 — Number of Grooves D — Belt Cross Section 580 — 58.0" *Pitch* Diameter P — Bushing Required

TAPER BUSHED

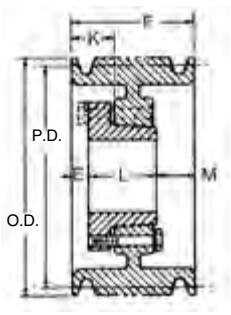
HI-CAP® WEDGE (Also Referred To As "Narrow")	CONVENTIONAL (Also Referred To As "Classical")
10 8V 5300 TB	1 B 34 TB
10 — Number of Grooves 8V — Belt Cross Section 5300 — 53.00" *Outside* Diameter TB — Taper Bushing Required	1 — Number of Grooves B — Belt Cross Section 34 — 3.4" *Pitch* Diameter (B-Belt) TB — Taper Bushing Required

MST

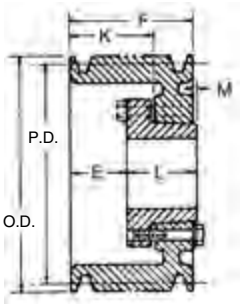
HI-CAP® WEDGE (Also Referred To As "Narrow")	CONVENTIONAL (Also Referred To As "Classical")
6 5V 925 R	3 C 110 Q
6 — Number of Grooves 5V — Belt Cross Section 925 — 9.25" *Outside* Diameter R — Taper Bushing Required	3 — Number of Grooves C — Belt Cross Section 110 — 11.0" *Pitch* Diameter (B-Belt) TQ — Taper Bushing Required

Call Martin for your made-to-order and large quantity requirements.

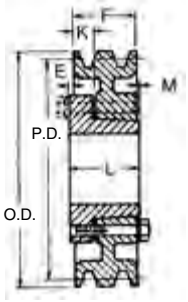
Hi-Cap Wedge Stock QD Sheaves 3V



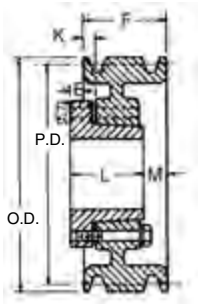
TYPE A



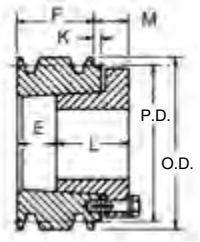
TYPE B



TYPE C



TYPE D



TYPE E

Dimensions for Martin sheaves are listed in the following tables with QD bushings in place. The type of sheave shown below is indicated by a letter, and the construction is indicated by a number, as shown on facing page.

QD Sheaves — 3V

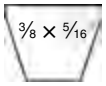
1 Groove* F = 11/16											2 Groove F = 1 3/32							
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
1 3V 220 JA	2.20	2.15	E-1	JA	1 1/4	9/16	7/16	1 1/16	15/16	.7	2 3V 220 JA	E-1	JA	1 1/4	31/32	7/16	1 1/16	15/16	.9
1 3V 235 JA	2.35	2.30	E-1	JA	1 1/4	9/16	7/16	1 1/16	15/16	.8	2 3V 235 JA	E-1	JA	1 1/4	31/32	7/16	1 1/16	15/16	1.0
1 3V 250 JA	2.50	2.45	E-1	JA	1 1/4	9/16	7/16	1 1/16	15/16	.8	2 3V 250 JA	E-1	JA	1 1/4	31/32	7/16	1 1/16	15/16	1.2
1 3V 265 JA	2.65	2.60	C-1	JA	1 1/4	3/8	1/8	1 1/16	0	.9	2 3V 265 JA	D-1	JA	1 1/4	3/8	1/8	1 1/16	13/32	1.3
1 3V 280 JA	2.80	2.75	C-1	JA	1 1/4	3/8	1/8	1 1/16	0	.9	2 3V 280 JA	D-1	JA	1 1/4	3/8	1/8	1 1/16	13/32	1.4
1 3V 300 JA	3.00	2.95	C-1	JA	1 1/4	3/8	1/8	1 1/16	0	1.0	2 3V 300 JA	D-1	JA	1 1/4	3/8	1/8	1 1/16	13/32	1.6
1 3V 315 JA	3.15	3.10	C-1	JA	1 1/4	3/8	1/8	1 1/16	0	1.0	2 3V 315 JA	D-1	JA	1 1/4	3/8	1/8	1 1/16	13/32	1.8
1 3V 335 JA	3.35	3.30	C-1	JA	1 1/4	3/8	1/8	1 1/16	0	1.1	2 3V 335 SH	D-1	SH	1 1 1/16	27/64	9/64	1 5/16	13/64	2.0
1 3V 365 SH	3.65	3.60	D-1	SH	1 1 1/16	9/16	0	1 5/16	1/16	1.3	2 3V 365 SH	D-1	SH	1 1 1/16	27/64	9/64	1 5/16	13/64	2.4
1 3V 412 SH	4.12	4.07	D-1	SH	1 1 1/16	9/16	0	1 5/16	1/16	1.7	2 3V 412 SH	D-1	SH	1 1 1/16	9/32	9/32	1 5/16	1/16	2.7
1 3V 450 SH	4.50	4.45	D-2	SH	1 1 1/16	9/16	0	1 5/16	1/16	2.1	2 3V 450 SH	D-1	SH	1 1 1/16	1/4	5/16	1 5/16	1/32	2.9
1 3V 475 SH	4.75	4.70	D-2	SH	1 1 1/16	9/16	0	1 5/16	1/16	2.5	2 3V 475 SH	D-1	SH	1 1 1/16	1/4	5/16	1 5/16	1/32	3.1
1 3V 500 SH	5.00	4.95	D-2	SH	1 1 1/16	9/16	0	1 5/16	1/16	2.8	2 3V 500 SH	D-1	SH	1 1 1/16	1/4	5/16	1 5/16	1/32	3.6
1 3V 530 SH	5.30	5.25	D-2	SH	1 1 1/16	9/16	0	1 5/16	1/16	3.2	2 3V 530 SH	D-1	SH	1 1 1/16	1/4	5/16	1 5/16	1/32	4.5
1 3V 560 SH	5.60	5.55	D-2	SH	1 1 1/16	9/16	0	1 5/16	1/16	3.2	2 3V 560 SH	D-1	SH	1 1 1/16	1/4	5/16	1 5/16	1/32	5.0
1 3V 600 SH	6.00	5.95	D-2	SH	1 1 1/16	9/16	0	1 5/16	1/16	3.5	2 3V 600 SH	D-1	SH	1 1 1/16	1/4	5/16	1 5/16	1/32	5.5
1 3V 650 SH	6.50	6.45	D-3	SH	1 1 1/16	9/16	0	1 5/16	1/16	3.9	2 3V 650 SDS	D-3	SDS	2	5/16	5/16	1 3/8	1/32	5.8
1 3V 690 SH	6.90	6.85	D-3	SH	1 1 1/16	9/16	0	1 5/16	1/16	4.5	2 3V 690 SDS	D-3	SDS	2	5/16	5/16	1 3/8	1/32	6.6
1 3V 800 SDS	8.00	7.95	C-3	SDS	2	5/8	0	1 3/8	0	5.5	2 3V 800 SDS	D-3	SDS	2	5/16	5/16	1 3/8	1/32	7.0
1 3V 1060 SDS	10.60	10.55	C-3	SDS	2	5/8	0	1 3/8	0	8.0	2 3V 1060 SK	C-3	SK	2 5/8	7/16	1/4	1 15/16	13/32	10.0
1 3V 1400 SK	14.00	13.95	C-3	SK	2 5/8	11/16	0	1 15/16	0	13.5	2 3V 1400 SK	C-3	SK	2 5/8	7/16	1/4	1 15/16	13/32	16.0
1 3V 1900 SK	19.00	18.95	C-3	SK	2 5/8	11/16	0	1 15/16	0	17.0	2 3V 1900 SK	C-3	SK	2 5/8	7/16	1/4	1 15/16	13/32	25.0
	25.00	24.95									2 3V 2500 SF	C-3	SF	2 15/16	7/16	1/4	2 1/16	17/32	28.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

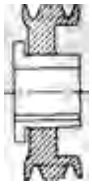
* F = 3/4" for 1 3V 800 SDS and 1 3V 1060 SDS, F = 13/16" for 1 3V 1400 SK and 1 3V 1900 SK

☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

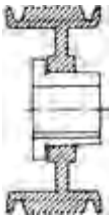
3V Hi-Cap Wedge Stock QD Sheaves



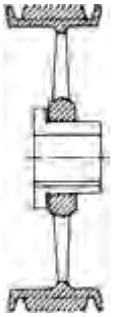
3V



1 = SOLID



2 = WEB



3 = ARM/SPOKE

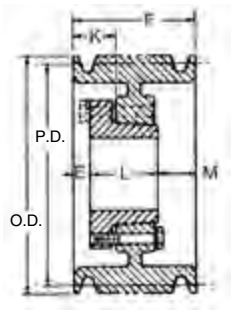


Let *Martin* quote your made to order and large quantity requirements.

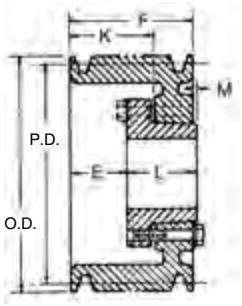
QD Sheaves — 3V

3 Groove F = 1½											4 Groove F = 1 29/32								
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
3 3V 250 JA	2.50	2.45	E-1	JA	1¼	1⅜	7/16	1 1/16	15/16	1.6									
3 3V 265 JA	2.65	2.60	D-1	JA	1¼	⅜	⅛	1 1/16	13/16	1.8	4 3V 265 JA	D-1	JA	1¼	⅜	⅛	1 1/16	1 7/32	1.3
3 3V 280 JA	2.80	2.75	D-1	JA	1¼	⅜	⅛	1 1/16	13/16	2.0	4 3V 280 JA	D-1	JA	1¼	⅜	⅛	1 1/16	1 7/32	1.6
3 3V 300 SH	3.00	2.95	E-1	SH	1 11/16	1 1/16	0	1 15/16	9/16	2.2	4 3V 300 SH	E-1	SH	1 11/16	1 15/32	5/16	1 5/16	⅞	1.9
3 3V 315 SH	3.15	3.10	E-1	SH	1 11/16	1 1/16	5/16	1 5/16	⅞	2.5	4 3V 315 SH	E-1	SH	1 11/16	1 15/32	5/16	1 5/16	⅞	2.2
3 3V 335 SH	3.35	3.30	D-1	SH	1 11/16	7/16	⅛	1 5/16	⅝	2.8	4 3V 335 SH	D-1	SH	1 11/16	7/16	⅛	1 5/16	1 1/32	2.5
3 3V 365 SH	3.65	3.60	D-1	SH	1 11/16	7/16	⅛	1 5/16	⅝	3.0	4 3V 365 SH	D-1	SH	1 11/16	7/16	⅛	1 5/16	1 1/32	2.8
3 3V 412 SH	4.12	4.07	A-1	SH	1 11/16	⅛	11/16	1 5/16	1/16	3.3	4 3V 412 SH	A-1	SH	1 11/16	¼	13/16	1 5/16	11/32	3.2
3 3V 450 SDS	4.50	4.45	A-1	SDS	2	1/16	11/16	1⅜	1/16	3.5	4 3V 450 SDS	A-1	SDS	2	3/16	13/16	1⅜	1 1/32	3.5
3 3V 475 SDS	4.75	4.70	A-1	SDS	2	1/16	11/16	1⅜	1/16	3.7	4 3V 475 SDS	A-1	SDS	2	3/16	13/16	1⅜	1 1/32	4.0
3 3V 500 SDS	5.00	4.95	A-1	SDS	2	1/16	11/16	1⅜	1/16	4.0	4 3V 500 SDS	A-1	SDS	2	3/16	13/16	1⅜	1 1/32	4.5
3 3V 530 SDS	5.30	5.25	A-1	SDS	2	1/16	11/16	1⅜	1/16	4.3	4 3V 530 SDS	A-1	SDS	2	3/16	13/16	1⅜	1 1/32	5.0
3 3V 560 SDS	5.60	5.55	A-1	SDS	2	1/16	11/16	1⅜	1/16	4.9	4 3V 560 SDS	A-1	SDS	2	3/16	13/16	1⅜	1 1/32	5.7
3 3V 600 SDS	6.00	5.95	A-1	SDS	2	1/16	11/16	1⅜	1/16	5.9	4 3V 600 SK	D-1	SK	2⅝	1/16	⅝	1 15/16	1/32	7.5
3 3V 650 SDS	6.50	6.45	A-3	SDS	2	1/16	11/16	1⅜	1/16	6.3	4 3V 650 SK	A-1	SK	2⅝	1/16	⅝	1 15/16	1/32	8.0
3 3V 690 SDS	6.90	6.85	A-3	SDS	2	1/16	11/16	1⅜	1/16	6.8	4 3V 690 SK	A-1	SK	2⅝	1/16	⅝	1 15/16	1/32	10.0
3 3V 800 SK	8.00	7.95	C-2	SK	2⅝	7/16	¼	1 15/16	0	10.6	4 3V 800 SK	D-2	SK	2⅝	1/16	⅝	1 15/16	1/32	12.0
3 3V 1060 SK	10.60	10.55	C-3	SK	2⅝	7/16	¼	1 15/16	0	12.0	4 3V 1060 SK	D-3	SK	2⅝	1/16	⅝	1 15/16	1/32	16.0
3 3V 1400 SK	14.00	13.95	C-3	SK	2⅝	7/16	¼	1 15/16	0	20.0	4 3V 1400 SK	D-3	SK	2⅝	1/16	⅝	1 15/16	1/32	22.0
3 3V 1900 SF	19.00	18.95	C-3	SF	2 15/16	7/16	¼	2 1/16	⅛	33.0	4 3V 1900 SF	C-3	SF	2 15/16	1/16	⅝	2 1/16	3/32	37.0
3 3V 2500 SF	25.00	24.95	C-3	SF	2 15/16	7/16	¼	2 1/16	⅛	45.0	4 3V 2500 SF	C-3	SF	2 15/16	1/16	⅝	2 1/16	3/32	53.0
3 3V 3350 SF	33.50	33.45	C-3	SF	2 15/16	7/16	¼	2 1/16	⅛	75.0	4 3V 3350 E	C-3	E	3½	⅜	½	2⅝	1 1/32	80.0

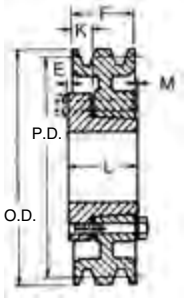
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.



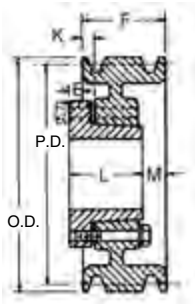
TYPE A



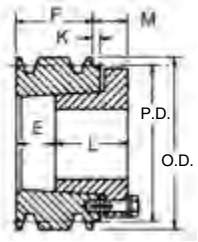
TYPE B



TYPE C



TYPE D



TYPE E

QD Sheaves — 3V

5 Groove F = 2 5/16											6 Groove F = 2 23/32								
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
5 3V 475 SDS	4.75	4.70	A-2	SDS	2	3/16	13/16	1 3/8	3/4	4.5	6 3V 475 SK	D-1	SK	2 5/8	9/16	1/8	1 15/16	1 11/32	6.0
5 3V 500 SDS	5.00	4.95	A-2	SDS	2	3/16	13/16	1 3/8	3/4	5.3	6 3V 500 SK	D-1	SK	2 5/8	9/16	1/8	1 15/16	1 11/32	6.5
5 3V 530 SK	5.30	5.25	A-1	SK	2 5/8	1/4	15/16	1 15/16	1/8	5.8	6 3V 530 SK	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	5/32	6.8
5 3V 560 SK	5.60	5.55	A-1	SK	2 5/8	1/4	15/16	1 15/16	1/8	7.0	6 3V 560 SK	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	5/32	8.0
5 3V 600 SK	6.00	5.95	A-1	SK	2 5/8	1/4	15/16	1 15/16	1/8	8.3	6 3V 600 SK	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	5/32	9.0
5 3V 650 SK	6.50	6.45	A-1	SK	2 5/8	1/4	15/16	1 15/16	1/8	9.0	6 3V 650 SK	A-2	SK	2 5/8	5/8	1 5/16	1 15/16	5/32	10.0
5 3V 690 SK	6.90	6.85	A-1	SK	2 5/8	1/4	15/16	1 15/16	1/8	12.0	6 3V 690 SK	A-2	SK	2 5/8	5/8	1 5/16	1 15/16	5/32	11.5
5 3V 800 SK	8.00	7.95	A-2	SK	2 5/8	1/4	15/16	1 15/16	1/8	13.0	6 3V 800 SK	A-2	SK	2 5/8	3/16	7/8	1 15/16	19/32	17.0
5 3V 1060 SK	10.60	10.55	A-3	SK	2 5/8	1/4	15/16	1 15/16	1/8	17.0	6 3V 1060 SF	A-2	SF	2 15/16	3/16	7/8	2 1/16	15/32	25.0
5 3V 1400 SF	14.00	13.95	A-3	SK	2 15/16	3/16	7/8	2 1/16	1/16	27.0	6 3V 1400 SF	A-3	SF	2 15/16	3/16	7/8	2 1/16	15/32	34.0
5 3V 1900 SF	19.00	18.95	A-3	SK	2 15/16	3/16	7/8	2 1/16	1/16	40.0	6 3V 1900 E	B-3	E	3 1/2	1/8	1	2 5/8	1/32	45.0
5 3V 2500 E	25.00	24.95	C-3	E	3 1/2	1/4	5/8	2 5/8	1/16	69.0	6 3V 2500 E	B-3	E	3 1/2	1/8	1	2 5/8	1/32	75.0
5 3V 3350 E	33.50	33.45	C-3	E	3 1/2	1/4	5/8	2 5/8	1/16	97.0	6 3V 3350 E	B-3	E	3 1/2	1/8	1	2 5/8	1/32	98.0

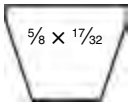
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

QD Sheaves — 3V

8 Groove F = 3 17/32											10 Groove F = 4 11/32								
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
8 3V 475 SK	4.75	4.70	D-1	SK	2 5/8	9/16	1/8	1 15/16	2 5/32	6.0	10 3V 475 SK	D-1	SK	2 5/8	9/16	1/8	1 15/16	2 31/32	7.0
8 3V 500 SK	5.00	4.95	D-1	SK	2 5/8	9/16	1/8	1 15/16	2 5/32	6.9	10 3V 500 SK	D-1	SK	2 5/8	9/16	1/8	1 15/16	2 31/32	8.6
8 3V 530 SK	5.30	5.25	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	31/32	7.8	10 3V 530 SK	A-1	SK	2 5/8	3/4	1 7/16	1 15/16	1 21/32	9.0
8 3V 560 SK	5.60	5.55	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	31/32	9.0	10 3V 560 SK	A-1	SK	2 5/8	3/4	1 7/16	1 15/16	1 21/32	10.0
8 3V 600 SK	6.00	5.95	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	31/32	10.0	10 3V 600 SK	A-1	SK	2 5/8	3/4	1 7/16	1 15/16	1 21/32	11.0
8 3V 650 SK	6.50	6.45	A-2	SK	2 5/8	5/8	1 5/16	1 15/16	31/32	12.9	10 3V 650 SK	A-2	SK	2 5/8	3/4	1 7/16	1 15/16	1 21/32	14.0
8 3V 690 SK	6.90	6.85	A-2	SK	2 5/8	5/8	1 5/16	1 15/16	31/32	14.0	10 3V 690 SK	A-2	SK	2 5/8	3/4	1 7/16	1 15/16	1 21/32	16.0
8 3V 800 SF	8.00	7.95	A-1	SF	2 15/16	7/16	1 1/8	2 1/16	1 1/32	20.0	10 3V 800 SF	A-1	SF	2 15/16	13/16	1 1/2	2 1/16	1 15/32	22.0
8 3V 1060 SF	10.60	10.55	A-2	SF	2 15/16	7/16	1 1/8	2 1/16	1 1/32	28.0	10 3V 1060 E	A-2	E	3 1/2	3/8	1 1/4	2 5/8	1 11/32	33.0
8 3V 1400 E	14.00	13.95	A-3	E	3 1/2	3/8	1 1/4	2 5/8	17/32	40.0	10 3V 1400 E	A-3	E	3 1/2	3/8	1 1/4	2 5/8	1 11/32	43.0
8 3V 1900 E	19.00	18.95	A-3	E	3 1/2	3/8	1 1/4	2 5/8	17/32	62.0	10 3V 1900 E	A-3	E	3 1/2	3/8	1 1/4	2 5/8	1 11/32	66.0
8 3V 2500 E	25.00	24.95	A-3	E	3 1/2	3/8	1 1/4	2 5/8	17/32	87.0	10 3V 2500 F	A-3	F	3 15/16	5/16	1 5/16	3 3/8	13/32	98.0
8 3V 3350 F	33.50	33.45	B-3	F	3 15/16	1/16	1 1/16	3 3/8	5/32	152.0	10 3V 3350 F	A-3	F	3 15/16	5/16	1 5/16	3 3/8	13/32	178.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

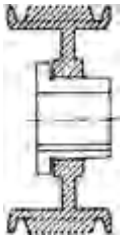
5V Hi-Cap Wedge Stock QD Sheaves



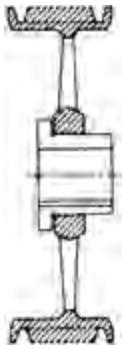
5V



1 = SOLID



2 = WEB



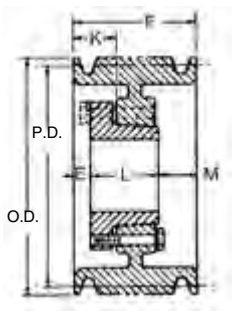
3 = ARM/SPOKE

QD Sheaves — 5V

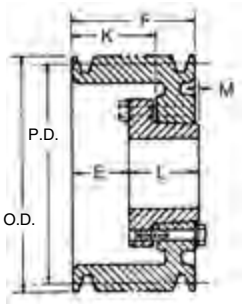
2 Groove F = 1 11/16											3 Groove F = 2 3/8								
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
2 5V 440 SH	4.40	4.30	A-1	SH	1 1/16	5/16	7/8	1 5/16	1/16	4.0	3 5V 440 SDS	E-1	SDS	2	1 5/8	0	1 3/8	5/8	5.5
2 5V 465 SDS	4.65	4.55	E-1	SDS	2	15/16	0	1 3/8	5/8	4.5	3 5V 465 SDS	E-1	SDS	2	1 5/8	0	1 3/8	5/8	6.5
2 5V 490 SDS	4.90	4.80	A-1	SDS	2	1/16	1 1/16	1 3/8	1/4	5.0	3 5V 490 SDS	A-1	SDS	2	7/16	1 1/16	1 3/8	9/16	7.0
2 5V 520 SDS	5.20	5.10	A-1	SDS	2	1/16	1 1/16	1 3/8	1/4	5.5	3 5V 520 SDS	A-1	SDS	2	7/16	1 1/16	1 3/8	9/16	7.5
2 5V 550 SDS	5.50	5.40	A-1	SDS	2	1/16	1 1/16	1 3/8	1/4	6.0	3 5V 550 SDS	A-1	SDS	2	7/16	1 1/16	1 3/8	9/16	8.0
2 5V 590 SDS	5.90	5.80	A-1	SDS	2	1/16	1 1/16	1 3/8	1/4	7.0	3 5V 590 SDS	A-1	SDS	2	7/16	1 1/16	1 3/8	9/16	8.5
2 5V 630 SK	6.30	6.20	C-1	SK	2 5/8	1/4	7/16	1 15/16	0	8.0	3 5V 630 SK	A-1	SK	2 5/8	3/8	1 1/16	1 15/16	1/16	11.0
2 5V 670 SK	6.70	6.60	C-1	SK	2 5/8	1/4	7/16	1 15/16	0	10.0	3 5V 670 SK	A-1	SK	2 5/8	3/8	1 1/16	1 15/16	1/16	11.5
2 5V 710 SK	7.10	7.00	C-1	SK	2 5/8	1/4	7/16	1 15/16	0	11.0	3 5V 710 SF	A-1	SF	2 15/16	5/16	1	2 1/16	0	13.0
2 5V 750 SK	7.50	7.40	C-1	SK	2 5/8	1/4	7/16	1 15/16	0	13.0	3 5V 750 SF	A-1	SF	2 15/16	5/16	1	2 1/16	0	14.0
2 5V 800 SK	8.00	7.90	C-1	SK	2 5/8	1/4	7/16	1 15/16	0	14.0	3 5V 800 SF	A-1	SF	2 15/16	5/16	1	2 1/16	0	15.0
2 5V 850 SK	8.50	8.40	C-1	SK	2 5/8	1/4	7/16	1 15/16	0	15.0	3 5V 850 SF	A-1	SF	2 15/16	5/16	1	2 1/16	0	16.0
2 5V 900 SK	9.00	8.90	C-2	SK	2 5/8	1/4	7/16	1 15/16	0	16.0	3 5V 900 SF	A-2	SF	2 15/16	5/16	1	2 1/16	0	17.0
2 5V 925 SK	9.25	9.15	C-2	SK	2 5/8	1/4	7/16	1 15/16	0	16.5	3 5V 925 SF	A-2	SF	2 15/16	5/16	1	2 1/16	0	18.0
2 5V 975 SK	9.75	9.65	C-3	SK	2 5/8	1/4	7/16	1 15/16	0	17.0	3 5V 975 SF	A-2	SF	2 15/16	5/16	1	2 1/16	0	19.0
2 5V 1030 SK	10.30	10.20	C-3	SK	2 5/8	1/4	7/16	1 15/16	0	18.0	3 5V 1030 SF	A-2	SF	2 15/16	5/16	1	2 1/16	0	22.0
2 5V 1090 SK	10.90	10.80	C-3	SK	2 5/8	1/4	7/16	1 15/16	0	19.0	3 5V 1090 SF	A-2	SF	2 15/16	5/16	1	2 1/16	0	25.0
2 5V 1130 SK	11.30	11.20	C-3	SK	2 5/8	1/4	7/16	1 15/16	0	19.5	3 5V 1130 SF	A-2	SF	2 15/16	5/16	1	2 1/16	0	25.0
2 5V 1180 SK	11.80	11.70	C-3	SK	2 5/8	1/4	7/16	1 15/16	0	20.0	3 5V 1180 SF	A-2	SF	2 15/16	5/16	1	2 1/16	0	29.0
2 5V 1250 SF	12.50	12.40	C-3	SF	2 15/16	1/4	7/16	2 1/16	1/8	25.0	3 5V 1250 E	C-2	E	3 1/2	1/8	3/4	2 5/8	1/8	32.0
2 5V 1320 SF	13.20	13.10	C-3	SF	2 15/16	1/4	7/16	2 1/16	1/8	27.0	3 5V 1320 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	38.0
2 5V 1400 SF	14.00	13.90	C-3	SF	2 15/16	1/4	7/16	2 1/16	1/8	28.0	3 5V 1400 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	43.0
2 5V 1500 SF	15.00	14.90	C-3	SF	2 15/16	1/4	7/16	2 1/16	1/8	30.0	3 5V 1500 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	44.0
2 5V 1600 SF	16.00	15.90	C-3	SF	2 15/16	1/4	7/16	2 1/16	1/8	34.0	3 5V 1600 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	46.0
2 5V 1870 SF	18.70	18.60	C-3	SF	2 15/16	1/4	7/16	2 1/16	1/8	49.0	3 5V 1870 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	60.0
2 5V 2120 SF	21.20	21.10	C-3	SF	2 15/16	1/4	7/16	2 1/16	1/8	50.0	3 5V 2120 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	68.0
2 5V 2360 E	23.60	23.50	C-3	E	3 1/2	5/8	1/4	2 5/8	5/16	72.0	3 5V 2360 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	80.0
2 5V 2800 E	28.00	27.90	C-3	E	3 1/2	5/8	1/4	2 5/8	5/16	80.0	3 5V 2800 E	C-3	E	3 1/2	1/8	3/4	2 5/8	1/8	92.0
	31.50	31.40									3 5V 3150 F	C-3	F	3 15/16	7/16	9/16	3 5/8	13/16	136.0
	37.50	37.40									3 5V 3750 F	C-3	F	3 15/16	7/16	9/16	3 5/8	13/16	156.0
	50.00	49.90									3 5V 5000 F	C-3	F	3 15/16	7/16	9/16	3 5/8	13/16	210.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

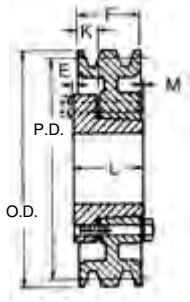
Hi-Cap Wedge Stock QD Sheaves 5V



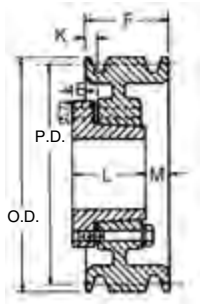
TYPE A



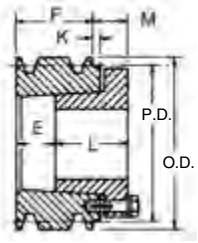
TYPE B



TYPE C



TYPE D



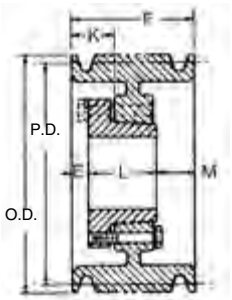
TYPE E

QD Sheaves — 5V

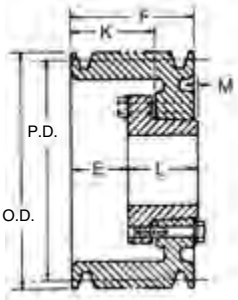
4 Groove F = 3 1/16											5 Groove F = 3 3/4								
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
4 5V 440 SD	4.40	4.30	E-1	SD	2	1 7/8	0	1 13/16	5/8	5.0	5 5V 440 SD	E-1	SD	2	2 9/16	0	1 13/16	5/8	6.0
4 5V 465 SD	4.65	4.55	E-1	SD	2	1 7/8	0	1 13/16	5/8	6.0	5 5V 465 SD	E-1	SD	2	2 9/16	1 5/16	1 13/16	5/8	7.0
4 5V 490 SD	4.90	4.80	A-1	SD	2	1 1/16	1 5/16	1 13/16	9/16	7.0	5 5V 490 SD	A-1	SD	2	1 1/16	1 5/16	1 13/16	1 1/4	8.0
4 5V 520 SD	5.20	5.10	A-1	SD	2	1 1/16	1 5/16	1 13/16	9/16	8.0	5 5V 520 SD	A-1	SD	2	1 1/16	1 5/16	1 13/16	1 1/4	9.0
4 5V 550 SD	5.50	5.40	A-1	SD	2	1 1/16	1 5/16	1 13/16	9/16	9.0	5 5V 550 SD	A-1	SD	2	1 1/16	1 5/16	1 13/16	1 1/4	10.0
4 5V 590 SD	5.90	5.80	A-1	SD	2	1 1/16	1 5/16	1 13/16	9/16	10.8	5 5V 590 SK	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	1 3/16	11.0
4 5V 630 SK	6.30	6.20	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	1/2	12.0	5 5V 630 SK	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	1 3/16	12.0
4 5V 670 SK	6.70	6.60	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	1/2	14.0	5 5V 670 SF	A-1	SF	2 15/16	5/8	1 5/16	2 1/16	1 1/16	13.0
4 5V 710 SF	7.10	7.00	A-1	SF	2 15/16	3/8	1 1/16	2 1/16	5/8	15.0	5 5V 710 SF	A-1	SF	2 15/16	1 1/16	1 3/8	2 1/16	1	14.0
4 5V 750 SF	7.50	7.40	A-1	SF	2 15/16	3/8	1 1/16	2 1/16	5/8	16.0	5 5V 750 SF	A-1	SF	2 15/16	1 1/16	1 3/8	2 1/16	1	16.0
4 5V 800 E	8.00	7.90	B-1	E	3 1/2	9/16	1 7/16	2 5/8	1/8	19.0	5 5V 800 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	19.0
4 5V 850 E	8.50	8.40	B-1	E	3 1/2	9/16	1 7/16	2 5/8	1/8	23.0	5 5V 850 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	22.0
4 5V 900 E	9.00	8.90	B-1	E	3 1/2	9/16	1 7/16	2 5/8	1/8	25.0	5 5V 900 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	26.0
4 5V 925 E	9.25	9.15	B-1	E	3 1/2	9/16	1 7/16	2 5/8	1/8	26.0	5 5V 925 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	28.0
4 5V 975 E	9.75	9.65	B-1	E	3 1/2	9/16	1 7/16	2 5/8	1/8	28.0	5 5V 975 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	30.0
4 5V 1030 E	10.30	10.20	B-1	E	3 1/2	9/16	1 7/16	2 5/8	1/8	30.0	5 5V 1030 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	33.0
4 5V 1090 E	10.90	10.80	B-2	E	3 1/2	9/16	1 7/16	2 5/8	1/8	39.0	5 5V 1090 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	41.0
4 5V 1130 E	11.30	11.20	B-2	E	3 1/2	9/16	1 7/16	2 5/8	1/8	40.0	5 5V 1130 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	42.0
4 5V 1180 E	11.80	11.70	B-2	E	3 1/2	9/16	1 7/16	2 5/8	1/8	41.0	5 5V 1180 E	A-1	E	3 1/2	7/8	1 3/4	2 5/8	1/4	44.0
4 5V 1250 E	12.50	12.40	B-3	E	3 1/2	9/16	1 7/16	2 5/8	1/8	43.0	5 5V 1250 E	A-3	E	3 1/2	7/8	1 3/4	2 5/8	1/4	45.0
4 5V 1320 E	13.20	13.10	B-3	E	3 1/2	9/16	1 7/16	2 5/8	1/8	45.0	5 5V 1320 E	A-3	E	3 1/2	7/8	1 3/4	2 5/8	1/4	46.0
4 5V 1400 E	14.00	13.90	B-3	E	3 1/2	9/16	1 7/16	2 5/8	1/8	46.0	5 5V 1400 E	A-3	E	3 1/2	7/8	1 3/4	2 5/8	1/4	47.0
4 5V 1500 E	15.00	14.90	B-3	E	3 1/2	9/16	1 7/16	2 5/8	1/8	47.0	5 5V 1500 E	A-3	E	3 1/2	7/8	1 3/4	2 5/8	1/4	53.0
4 5V 1600 E	16.00	15.90	B-3	E	3 1/2	9/16	1 7/16	2 5/8	1/8	49.0	5 5V 1600 E	A-3	E	3 1/2	7/8	1 3/4	2 5/8	1/4	56.0
4 5V 1870 E	18.70	18.60	A-3	E	3 1/2	3/8	1 1/4	2 5/8	1/16	71.0	5 5V 1870 F	B-3	F	3 15/16	5/16	1 5/16	3 5/8	3/16	96.0
4 5V 2120 E	21.20	21.10	A-3	E	3 1/2	3/8	1 1/4	2 5/8	1/16	72.0	5 5V 2120 F	B-3	F	3 15/16	5/16	1 5/16	3 5/8	3/16	98.0
4 5V 2360 F	23.60	23.50	C-3	F	3 15/16	1/8	7/8	3 5/8	7/16	111.0	5 5V 2360 F	B-3	F	3 15/16	5/16	1 5/16	3 5/8	3/16	120.0
4 5V 2800 F	28.00	27.90	C-3	F	3 15/16	1/8	7/8	3 5/8	7/16	118.0	5 5V 2800 F	B-3	F	3 15/16	5/16	1 5/16	3 5/8	3/16	135.0
4 5V 3150 F	31.50	31.40	C-3	F	3 15/16	1/8	7/8	3 5/8	7/16	146.7	5 5V 3150 J	C-3	J	4 1/2	3/16	1	4 1/2	9/16	188.0
4 5V 3750 F	37.50	37.40	C-3	F	3 15/16	1/8	7/8	3 5/8	7/16	178.0	5 5V 3750 J	C-3	J	4 1/2	3/16	1	4 1/2	9/16	224.0
4 5V 5000 J	50.00	49.90	C-3	J	4 1/2	1/2	1 1/16	4 1/2	15/16	266.0	5 5V 5000 J	C-3	J	4 1/2	3/16	1	4 1/2	9/16	308.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

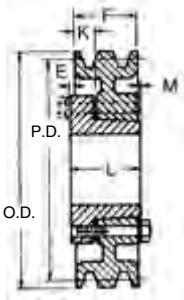
5V Hi-Cap Wedge Stock QD Sheaves



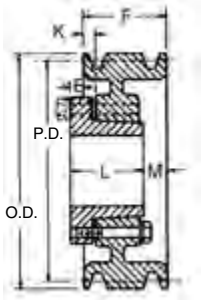
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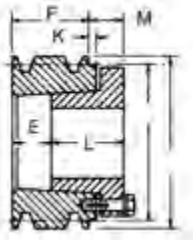
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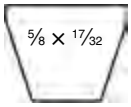
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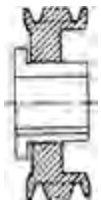
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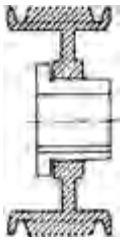
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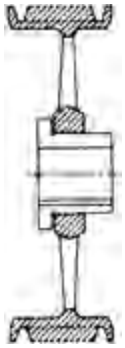
5V



1 = SOLID



2 = WEB



3 = ARM/SPOKE

QD Sheaves — 5V

6 Groove F = 4 7/16											7 Groove F = 5 1/8								
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
6 5V 440 SD	4.40	4.30	E-1	SD	2	3¼	0	1 13/16	5/8	7.0									
6 5V 465 SD	4.65	4.55	E-1	SD	2	3¼	0	1 13/16	5/8	7.8									
6 5V 490 SD	4.90	4.80	A-1	SD	2	1 1/16	1 5/16	1 13/16	1 15/16	9.0									
6 5V 520 SD	5.20	5.10	A-1	SD	2	1 1/16	1 5/16	1 13/16	1 15/16	10.8									
6 5V 550 SD	5.50	5.40	A-1	SD	2	1 1/16	1 5/16	1 13/16	1 15/16	11.3									
6 5V 590 SK	5.90	5.80	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	1 7/8	12.0									
6 5V 630 SK	6.30	6.20	A-1	SK	2 5/8	5/8	1 5/16	1 15/16	1 7/8	13.0									
6 5V 670 SF	6.70	6.60	A-1	SF	2 15/16	15/16	1 5/8	2 1/16	1 7/16	14.0									
6 5V 710 SF	7.10	7.00	A-1	SF	2 15/16	15/16	1 5/8	2 1/16	1 7/16	15.0	7 5V 710 SF	A-1	SF	2 15/16	15/16	1 5/8	2 1/16	2 1/8	17.0
6 5V 750 SF	7.50	7.40	A-1	SF	2 15/16	15/16	1 5/8	2 1/16	1 7/16	17.0	7 5V 750 SF	A-1	SF	2 15/16	15/16	1 5/8	2 1/16	2 1/8	19.0
6 5V 800 E	8.00	7.90	A-1	E	3½	1⅛	2	2⅝	1 1/16	20.0	7 5V 800 E	A-1	E	3½	1⅛	2	2⅝	1⅜	22.0
6 5V 850 E	8.50	8.40	A-1	E	3½	1⅛	2	2⅝	1 1/16	25.0	7 5V 850 E	A-1	E	3½	1⅛	2	2⅝	1⅜	26.0
6 5V 900 E	9.00	8.90	A-1	E	3½	1⅛	2	2⅝	1 1/16	28.0	7 5V 900 E	A-1	E	3½	1⅛	2	2⅝	1⅜	29.0
6 5V 925 E	9.25	9.15	A-1	E	3½	1⅛	2	2⅝	1 1/16	29.0	7 5V 925 E	A-1	E	3½	1⅛	2	2⅝	1⅜	33.0
6 5V 975 E	9.75	9.65	A-1	E	3½	1⅛	2	2⅝	1 1/16	31.0	7 5V 975 E	A-1	E	3½	1⅛	2	2⅝	1⅜	37.0
6 5V 1030 E	10.30	10.20	A-1	E	3½	1⅛	2	2⅝	1 1/16	33.0	7 5V 1030 F	B-1	F	3 15/16	1⅝	2 9/16	3⅝	⅛	49.0
6 5V 1090 E	10.90	10.80	A-1	E	3½	1⅛	2	2⅝	1 1/16	38.0	7 5V 1090 F	B-1	F	3 15/16	1⅝	2 9/16	3⅝	⅛	56.0
6 5V 1130 E	11.30	11.20	A-1	E	3½	1⅛	2	2⅝	1 1/16	41.0	7 5V 1130 F	B-1	F	3 15/16	1⅝	2 9/16	3⅝	⅛	61.0
6 5V 1180 E	11.80	11.70	A-1	E	3½	1⅛	2	2⅝	1 1/16	43.0	7 5V 1180 F	B-2	F	3 15/16	1⅝	2 9/16	3⅝	⅛	56.0
6 5V 1250 F	12.50	12.40	B-3	F	3 15/16	1 1/16	2 1/16	3⅜	¼	45.0	7 5V 1250 F	B-3	F	3 15/16	1⅝	2 9/16	3⅝	⅛	53.0
6 5V 1320 F	13.20	13.10	B-3	F	3 15/16	1 1/16	2 1/16	3⅜	¼	48.0	7 5V 1320 F	B-3	F	3 15/16	1⅝	2 9/16	3⅝	⅛	52.0
6 5V 1400 F	14.00	13.90	B-3	F	3 15/16	1 1/16	2 1/16	3⅜	¼	59.0	7 5V 1400 F	B-3	F	3 15/16	1⅝	2 9/16	3⅝	⅛	62.0
6 5V 1500 F	15.00	14.90	B-3	F	3 15/16	1 1/16	2 1/16	3⅜	¼	64.0	7 5V 1500 F	B-3	F	3 15/16	1⅝	2 9/16	3⅝	⅛	67.0
6 5V 1600 F	16.00	15.90	B-3	F	3 15/16	1 1/16	2 1/16	3⅜	¼	68.0	7 5V 1600 F	B-3	F	3 15/16	1⅝	2 9/16	3⅝	⅛	77.0
6 5V 1870 F	18.70	18.60	A-3	F	3 15/16	5/16	1 5/16	3⅜	½	83.8	7 5V 1870 F	A-3	F	3 15/16	⅜	1 1/16	3⅝	1⅛	99.0
6 5V 2120 F	21.20	21.10	A-3	F	3 15/16	5/16	1 5/16	3⅜	½	110.0	7 5V 2120 J	C-3	J	4½	3/16	1 5/16	4½	7/16	138.0
6 5V 2360 J	23.60	23.50	B-3	J	4½	⅛	1 5/16	4½	3/16	148.0	7 5V 2360 J	C-3	J	4½	3/16	1 5/16	4½	7/16	174.0
6 5V 2800 J	28.00	27.90	B-3	J	4½	⅛	1 5/16	4½	3/16	169.0	7 5V 2800 J	C-3	J	4½	3/16	1 5/16	4½	7/16	169.0
6 5V 3150 J	31.50	31.40	B-3	J	4½	⅛	1 5/16	4½	3/16	206.0	7 5V 3150 J	C-3	J	4½	3/16	1 5/16	4½	7/16	241.0
6 5V 3750 J	37.50	37.40	B-3	J	4½	⅛	1 5/16	4½	3/16	241.0	7 5V 3750 M	C-3	M	5½	9/16	1 15/16	6¾	2 3/16	300.0
6 5V 5000 M	50.00	49.90	C-3	M	5½	⅛	½	6¾	1⅜	388.0	7 5V 5000 M	C-3	M	5½	⅞	½	6¾	¾	408.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

QD Sheaves — 5V

8 Groove F = 5 13/16											9 Groove F = 6 1/2								
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
8 5V 710 SF	7.10	7.00	A-1	SF	2 15/16	1 1/16	2 1/8	2 1/16	2 5/16	19.0									
8 5V 750 SF	7.50	7.40	A-1	SF	2 15/16	1 1/16	2 1/8	2 1/16	2 5/16	20.0									
8 5V 800 E	8.00	7.90	A-1	E	3 1/2	1 5/8	2 1/2	2 5/8	1 9/16	25.0	9 5V 800 E	A-1	E	3 1/2	1 5/8	2 1/2	2 5/8	2 1/4	26.0
8 5V 850 E	8.50	8.40	A-1	E	3 1/2	1 5/8	2 1/2	2 5/8	1 9/16	29.0	9 5V 850 E	A-1	E	3 1/2	1 5/8	2 1/2	2 5/8	2 1/4	30.0
8 5V 900 E	9.00	8.90	A-1	E	3 1/2	1 5/8	2 1/2	2 5/8	1 9/16	32.0	9 5V 900 E	A-1	E	3 1/2	1 5/8	2 1/2	2 5/8	2 1/4	33.0
8 5V 925 F	9.25	9.15	A-1	F	3 1/2	1 9/16	2 9/16	3 5/8	5/8	39.0	9 5V 925 F	A-1	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	33.0
8 5V 975 F	9.75	9.65	A-1	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	42.0	9 5V 975 F	A-1	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	45.0
8 5V 1030 F	10.30	10.20	A-1	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	52.0	9 5V 1030 F	A-1	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	54.0
8 5V 1090 F	10.90	10.80	A-1	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	59.0	9 5V 1090 F	A-1	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	62.0
8 5V 1130 F	11.30	11.20	A-1	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	62.0	9 5V 1130 F	A-1	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	67.0
8 5V 1180 F	11.80	11.70	A-1	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	64.0	9 5V 1180 F	A-1	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	73.0
8 5V 1250 F	12.50	12.40	A-3	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	66.0	9 5V 1250 F	A-3	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	61.0
8 5V 1320 F	13.20	13.10	A-3	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	68.0	9 5V 1320 F	A-3	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	60.0
8 5V 1400 F	14.00	13.90	A-3	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	70.0	9 5V 1400 F	A-3	F	3 15/16	1 5/8	2 9/16	3 5/8	1 1/4	70.0
8 5V 1500 F	15.00	14.90	A-3	F	3 15/16	1 9/16	2 9/16	3 5/8	5/8	73.0	9 5V 1500 J	B-2	J	4 1/2	2 7/16	3 9/16	4 1/2	7/16	95.0
8 5V 1600 F	16.00	15.90	A-3	F	3 15/16	1 9/16	1 9/16	3 5/8	5/8	89.0	9 5V 1600 J	B-2	J	4 1/2	2 7/16	3 9/16	4 1/2	7/16	103.0
8 5V 1870 J	18.70	18.60	A-3	J	4 1/2	3/8	1 9/16	4 1/2	15/16	132.0	9 5V 1870 J	A-3	J	4 1/2	7/16	1 9/16	4 1/2	1 9/16	140.0
8 5V 2120 J	21.20	21.10	A-3	J	4 1/2	3/8	1 9/16	4 1/2	15/16	150.0	9 5V 2120 J	A-3	J	4 1/2	7/16	1 9/16	4 1/2	1 9/16	152.0
8 5V 2360 J	23.60	23.50	A-3	J	4 1/2	3/8	1 9/16	4 1/2	15/16	162.0	9 5V 2360 J	A-3	J	4 1/2	7/16	1 9/16	4 1/2	1 9/16	176.0
8 5V 2800 J	28.00	27.90	A-3	J	4 1/2	3/8	1 9/16	4 1/2	15/16	191.0	9 5V 2800 M	B-3	M	5 1/2	9/16	1 15/16	6 3/4	13/16	265.0
8 5V 3150 M	31.50	31.40	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 7/16	298.0	9 5V 3150 M	B-3	M	5 1/2	9/16	1 15/16	6 3/4	13/16	313.0
8 5V 3750 M	37.50	37.40	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 7/16	319.0	9 5V 3750 M	B-3	M	5 1/2	9/16	1 15/16	6 3/4	13/16	409.0
8 5V 5000 M	50.00	49.90	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 7/16	497.0	9 5V 5000 M	B-3	M	5 1/2	9/16	1 15/16	6 3/4	13/16	483.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

QD Sheaves — 5V

10 Groove F = 7 3/16										
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
10 5V 800 E	8.00	7.90	A-1	E	3 1/2	2 3/8	3 1/4	2 5/8	2 3/16	27.0
10 5V 850 E	8.50	8.40	A-1	E	3 1/2	2 3/8	3 1/4	2 5/8	2 3/16	32.0
10 5V 900 F	9.00	8.90	A-1	F	3 15/16	2 5/16	3 5/16	3 5/8	1 1/4	41.0
105V 925 F	9.25	9.15	A-1	F	3 15/16	2 5/16	3 5/16	3 5/8	1 1/4	47.0
10 5V 975 F	9.75	9.65	A-1	F	3 15/16	2 5/16	3 5/16	3 5/8	1 1/4	58.0
10 5V 1030 F	10.30	10.20	A-1	F	3 15/16	2 5/16	3 5/16	3 5/8	1 1/4	66.0
10 5V 1090 F	10.90	10.80	A-1	F	3 15/16	2 5/16	3 5/16	3 5/8	1 1/4	75.0
10 5V 1130 F	11.30	11.20	A-1	F	3 15/16	2 5/16	3 5/16	3 5/8	1 1/4	79.0
10 5V 1180 F	11.80	11.70	A-1	F	3 15/16	2 5/16	3 5/16	3 5/8	1 1/4	80.0
10 5V 1250 J	12.50	12.40	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	5/16	82.0
10 5V 1320 J	13.20	13.10	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	5/16	85.0
10 5V 1400 J	14.00	13.90	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	5/16	90.0
10 5V 1500 J	15.00	14.90	A-2	J	4 1/2	2 3/8	3 9/16	4 1/2	5/16	92.0
10 5V 1600 J	16.00	15.90	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	5/16	102.0
10 5V 1870 J	18.70	18.60	A-3	J	4 1/2	3/8	1 9/16	4 1/2	2 3/16	150.0
10 5V 2120 J	21.20	21.10	A-3	J	4 1/2	3/8	1 9/16	4 1/2	2 3/16	164.0
10 5V 2360 M	23.60	23.50	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1/16	258.0
10 5V 2800 M	28.00	27.90	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1/16	278.0
10 5V 3150 M	31.50	31.40	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1/16	318.0
10 5V 3750 M	37.50	37.40	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1/16	340.0
10 5V 5000 M	50.00	49.90	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1/16	538.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

8V Hi-Cap Wedge Stock QD Sheaves

QD Sheaves — 8V

4 Groove F = 4⅞											5 Groove F = 6								
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
4 8V 1250 F	12.50	12.30	A-1	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	63.0	5 8V 1250 F	A-1	F	3 15/16	1 5/16	2 5/16	3 5/8	1 1/16	68.0
4 8V 1320 F	13.20	13.00	A-2	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	66.0	5 8V 1320 F	A-2	F	3 15/16	1 5/16	2 5/16	3 5/8	1 1/16	75.0
4 8V 1400 F	14.00	13.80	A-2	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	70.0	5 8V 1400 F	A-2	F	3 15/16	1 5/16	2 5/16	3 5/8	1 1/16	78.0
4 8V 1500 F	15.00	14.80	A-2	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	74.0	5 8V 1500 F	A-2	F	3 15/16	1 5/16	2 5/16	3 5/8	1 1/16	94.0
4 8V 1600 F	16.00	15.80	A-2	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	82.0	5 8V 1600 F	A-2	F	3 15/16	1 5/16	2 5/16	3 5/8	1 1/16	101.0
4 8V 1700 F	17.00	16.80	A-3	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	94.0	5 8V 1700 J	A-3	J	4 1/2	13/16	2	4 1/2	1 1/16	111.0
4 8V 1800 F	18.00	17.80	A-3	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	99.0	5 8V 1800 J	A-3	J	4 1/2	13/16	2	4 1/2	1 1/16	130.0
4 8V 1900 F	19.00	18.80	A-3	F	3 15/16	3/16	1 3/16	3 5/8	1 1/16	105.0	5 8V 1900 J	A-3	J	4 1/2	13/16	2	4 1/2	1 1/16	135.0
4 8V 2000 J	20.00	19.80	A-3	J	4 1/2	1/4	1 7/16	4 1/2	1/8	141.0	5 8V 2000 J	A-3	J	4 1/2	13/16	2	4 1/2	1 1/16	152.0
4 8V 2120 J	21.20	21.00	A-3	J	4 1/2	1/4	1 7/16	4 1/2	1/8	150.0	5 8V 2120 J	A-3	J	4 1/2	13/16	2	4 1/2	1 1/16	153.0
4 8V 2240 J	22.40	22.20	A-3	J	4 1/2	1/4	1 7/16	4 1/2	1/8	177.0	5 8V 2240 M	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 1/4	223.0
4 8V 2480 M	24.80	24.60	C-3	M	5 1/2	5/8	13/16	6 3/4	1 1/4	223.0	5 8V 2480 M	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 1/4	234.0
4 8V 3000 M	30.00	29.80	C-3	M	5 1/2	5/8	13/16	6 3/4	1 1/4	285.0	5 8V 3000 M	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 1/4	294.0
4 8V 3550 M	35.50	35.30	C-3	M	5 1/2	5/8	13/16	6 3/4	1 1/4	305.0	5 8V 3550 M	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 1/4	325.0
4 8V 4000 M	40.00	39.80	C-3	M	5 1/2	5/8	13/16	6 3/4	1 1/4	355.0	5 8V 4000 M	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1 1/4	430.0
4 8V 4450 M	44.50	44.30	C-3	M	5 1/2	5/8	13/16	6 3/4	1 1/4	369.0	5 8V 4450 N	C-3	N	6	13/16	15/16	8 1/8	1 5/16	485.0
4 8V 5300 M	53.00	52.80	C-3	M	5 1/2	3/8	13/16	6 3/4	1 1/4	478.0	5 8V 5300 N	C-3	N	6	13/16	15/16	8 1/8	1 5/16	672.0

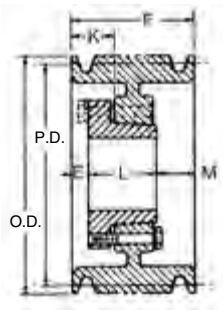
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

QD Sheaves — 8V

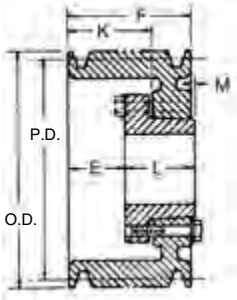
6 Groove F = 7⅛											8 Groove F = 9⅜								
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
6 8V 1250 F	12.50	12.30	A-1	F	3 15/16	1 5/16	2 5/16	3 5/8	2 3/16	86.0	8 8V 1250 J	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	2 1/2	108.0
6 8V 1320 F	13.20	13.00	A-1	F	3 15/16	1 5/16	2 5/16	3 5/8	2 3/16	94.0	8 8V 1320 J	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	2 1/2	118.0
6 8V 1400 F	14.00	13.80	A-1	F	3 15/16	1 5/16	2 5/16	3 5/8	2 3/16	108.0	8 8V 1400 J	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	2 1/2	131.0
6 8V 1500 J	15.00	14.80	A-1	J	4 1/2	1 3/8	2 5/16	4 1/2	1 1/4	138.0	8 8V 1500 J	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	2 1/2	151.0
6 8V 1600 J	16.00	15.80	A-1	J	4 1/2	1 3/8	2 5/16	4 1/2	1 1/4	142.0	8 8V 1600 J	A-1	J	4 1/2	2 3/8	3 9/16	4 1/2	2 1/2	155.0
6 8V 1700 J	17.00	16.80	A-2	J	4 1/2	1 3/8	2 5/16	4 1/2	1 1/4	144.0	8 8V 1700 M	A-2	M	5 1/2	2 1/2	3 15/16	6 3/4	1/8	188.0
6 8V 1800 J	18.00	17.80	A-2	J	4 1/2	1 3/8	2 5/16	4 1/2	1 1/4	160.0	8 8V 1800 M	A-2	M	5 1/2	2 1/2	3 15/16	6 3/4	1/8	202.0
6 8V 1900 J	19.00	18.80	A-2	J	4 1/2	1 3/8	2 5/16	4 1/2	1 1/4	172.0	8 8V 1900 M	A-2	M	5 1/2	2 1/2	3 15/16	6 3/4	1/8	221.0
6 8V 2000 M	20.00	19.80	B-2	M	5 1/2	1 1/2	2 15/16	6 3/4	1 1/8	204.0	8 8V 2000 M	A-2	M	5 1/2	2 1/2	3 15/16	6 3/4	1/8	236.0
6 8V 2120 M	21.20	21.00	B-2	M	5 1/2	1 1/2	2 15/16	6 3/4	1 1/8	226.0	8 8V 2120 M	A-2	M	5 1/2	2 1/2	3 15/16	6 3/4	1/8	267.0
6 8V 2240 M	22.40	22.20	B-3	M	5 1/2	1 1/2	2 15/16	6 3/4	1 1/8	235.0	8 8V 2240 M	A-3	M	5 1/2	2 1/2	3 15/16	6 3/4	1/8	284.0
6 8V 2480 M	24.80	24.60	B-3	M	5 1/2	1/2	1 15/16	6 3/4	1/8	246.0	8 8V 2480 N	A-2	N	6	1/2	2 1/4	8 1/8	3/4	418.0
6 8V 3000 M	30.00	29.80	B-3	M	6	1/2	1 15/16	6 3/4	1/8	306.0	8 8V 3000 N	A-3	N	6	1/2	2 1/4	8 1/8	3/4	447.0
6 8V 3550 N	35.50	35.30	C-3	N	6	5/8	1 1/8	8 1/8	3/8	466.0	8 8V 3550 N	A-3	N	6	1/2	2 1/4	8 1/8	3/4	553.0
6 8V 4000 N	40.00	39.80	C-3	N	6	5/8	1 1/8	8 1/8	3/8	548.0	8 8V 4000 N	A-3	N	6	1/2	2 1/4	8 1/8	3/4	648.0
6 8V 4450 N	44.50	44.30	C-3	N	6	5/8	1 1/8	8 1/8	3/8	590.0	8 8V 4450 P	B-3	P	6 3/4	5/8	2 5/8	9 5/8	5/8	679.0
6 8V 5300 N	53.00	52.80	C-3	N	6	5/8	1 1/8	8 1/8	3/8	658.0	8 8V 5300 P	B-3	P	6 3/4	5/8	2 5/8	9 5/8	5/8	946.0
6 8V 6300 P	63.00	62.80	C-3	P	6 3/4	0	2	9 5/8	1 1/8	860.0	8 8V 6300 P	B-3	P	6 3/4	5/8	2 5/8	9 5/8	1/4	1372.0
6 8V 7100 P	71.00	70.80	B-3	P	6 3/4	0	2	9 5/8	1 1/8	1272.0	8 8V 7100 W	C-3	W	8 1/2	1/8	1 3/8	11 3/8	3/4	1680.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

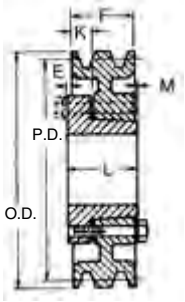
Hi-Cap Wedge Stock QD Sheaves 8V



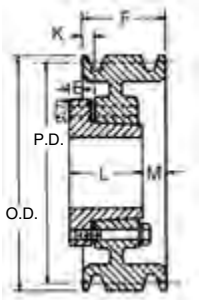
TYPE A



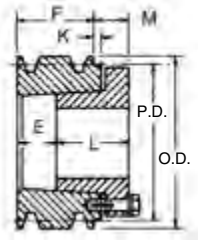
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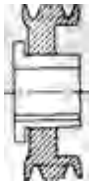
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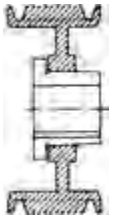
TYPE D



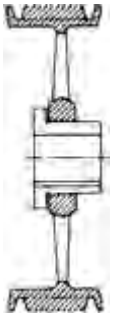
TYPE E



1 = SOLID



2 = WEB



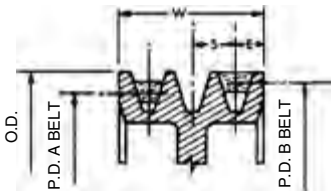
3 = ARM/SPOKE

QD Sheaves — 8V

10 Groove F = 11⅝											12 Groove F = 14								
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
10 8V 1250 J	12.50	12.30	A-1	J	4½	2⅜	3 9/16	4½	4¾	122.0	12 8V 1250 M	A-1	M	5½	2½	3 15/16	6¾	4⅝	161.0
10 8V 1320 J	13.20	13.00	A-1	J	4½	2⅜	3 9/16	4½	4¾	140.0	12 8V 1320 M	A-1	M	5½	2½	3 15/16	6¾	4⅝	185.0
10 8V 1400 J	14.00	13.80	A-1	J	4½	2⅜	3 9/16	4½	4¾	152.0	12 8V 1400 M	A-1	M	5½	2½	3 15/16	6¾	4⅝	211.0
10 8V 1500 M	15.00	14.80	A-1	M	5½	2½	3 15/16	6¾	2⅜	212.0	12 8V 1500 M	A-1	M	5½	2½	3 15/16	6¾	4⅝	234.0
10 8V 1600 M	16.00	15.80	A-1	M	5½	2½	3 15/16	6¾	2⅜	219.0	12 8V 1600 M	A-1	M	5½	2½	3 15/16	6¾	4⅝	285.0
10 8V 1700 M	17.00	16.80	A-2	M	5½	2½	3 15/16	6¾	2⅜	228.0	12 8V 1700 M	A-1	M	5½	2½	3 15/16	6¾	4⅝	324.0
10 8V 1800 M	18.00	17.80	A-2	M	5½	2½	3 15/16	6¾	2⅜	236.0	12 8V 1800 M	A-2	M	5½	2½	3 15/16	6¾	4⅝	330.0
10 8V 1900 M	19.00	18.80	A-2	M	5½	2½	3 15/16	6¾	2⅜	260.0	12 8V 1900 N	A-2	N	6	½	2¼	8⅛	5¼	338.0
10 8V 2000 M	20.00	19.80	A-2	M	5½	2½	3 15/16	6¾	2⅜	280.0	12 8V 2000 N	A-2	N	6	½	2¼	8⅛	5¼	365.0
10 8V 2120 M	21.20	21.00	A-2	M	5½	2½	3 15/16	6¾	2⅜	298.0	12 8V 2120 N	A-2	N	6	½	2¼	8⅛	5¼	382.0
10 8V 2240 N	22.40	22.20	A-2	N	6	½	2¼	8⅛	3	366.0	12 8V 2240 N	A-2	N	6	½	2¼	8⅛	5¼	399.0
10 8V 2480 N	24.80	24.60	A-2	N	6	½	2¼	8⅛	3	454.0	12 8V 2480 N	A-2	N	6	½	2¼	8⅛	5¼	454.0
10 8V 3000 N	30.00	29.80	A-3	N	6	½	2¼	8⅛	3	468.0	12 8V 3000 P	A-3	P	6¾	⅝	2⅝	9⅜	3⅜	605.0
10 8V 3550 P	35.50	35.30	A-3	P	6¾	⅝	2⅝	9⅜	1⅞	784.0	12 8V 3550 P	A-3	P	6¾	⅝	2⅝	9⅜	3⅜	706.0
10 8V 4000 P	40.00	39.80	A-3	P	6¾	⅝	2⅝	9⅜	1⅞	826.0	12 8V 4000 P	A-3	P	6¾	⅝	2⅝	9⅜	3⅜	766.0
10 8V 4450 P	44.50	44.30	A-3	P	6¾	⅝	2⅝	9⅜	1⅞	996.0	12 8V 4450 P	A-3	P	6¾	⅝	2⅝	9⅜	3⅜	910.0
10 8V 5300 P	53.00	52.80	A-3	P	6¾	⅝	2⅝	9⅜	¼	1010.0	12 8V 5300 W	A-3	W	8½	⅝	2⅛	11⅜	2¼	1333.0
10 8V 6300 W	63.00	62.80	A-3	W	8½	⅝	2⅛	11⅜	0	1443.0	12 8V 6300 W	A-3	W	8½	⅝	2⅛	11⅜	2¼	1777.0
10 8V 7100 W	71.00	70.80	A-3	W	8½	⅝	2⅛	11⅜	0	1842.0	12 8V 7100 W	A-3	W	8½	⅝	2⅛	11⅜	2¼	2002.0

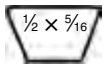
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

A-B Combination Groove Conventional Stock QD Sheaves

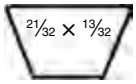


Combination Groove Dimensions

Belt Section	E	S	O.D.
"AB"	½	¾	P.D. "B" + .35



A



B

Drawing shows position of "A" and "B" belts in groove when used with QD sheaves.

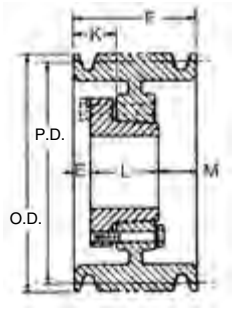
QD Sheaves — A-B

1 Groove												2 Groove								
F = ⅞ thru 1 B 64 SDS / F = 1 others												F = 1¾								
Part Number	PD A Belts	PD B Belts	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
1 B 34 SH	3.0	3.4	3.75	D-1	SH	1 11/16	9/16	0	1 5/16	1/8	1.4	2 B 34 SH	E-1	SH	1 11/16	1	0	1 5/16	9/16	2.8
1 B 36 SH	3.2	3.6	3.95	D-1	SH	1 11/16	9/16	0	1 5/16	1/8	1.6	2 B 36 SH	D-1	SH	1 11/16	3/8	3/16	1 5/16	13/16	2.8
1 B 38 SH	3.4	3.8	4.15	D-1	SH	1 11/16	9/16	0	1 5/16	1/8	1.2	2 B 38 SH	D-1	SH	1 11/16	3/8	3/16	1 5/16	13/16	3.3
1 B 40 SH	3.6	4.0	4.35	C-1	SH	1 11/16	1/4	5/16	1 5/16	3/16	2.2	2 B 40 SH	A-1	SH	1 11/16	1/8	11/16	1 5/16	5/16	3.4
1 B 42 SH	3.8	4.2	4.55	C-1	SH	1 11/16	1/4	5/16	1 5/16	3/16	6.9	2 B 42 SH	A-1	SH	1 11/16	1/8	11/16	1 5/16	5/16	3.8
1 B 44 SH	4.0	4.4	4.75	C-1	SH	1 11/16	1/4	5/16	1 5/16	3/16	2.9	2 B 44 SH	A-1	SH	1 11/16	1/8	11/16	1 5/16	5/16	4.6
1 B 46 SDS	4.2	4.6	4.95	C-1	SDS	2	5/16	5/16	1 3/8	3/16	2.6	2 B 46 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	4.3
1 B 48 SDS	4.4	4.8	5.15	C-1	SDS	2	5/16	5/16	1 3/8	3/16	3.1	2 B 48 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	4.8
1 B 50 SDS	4.6	5.0	5.35	C-1	SDS	2	5/16	5/16	1 3/8	3/16	3.5	2 B 50 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	5.5
1 B 52 SDS	4.8	5.2	5.55	C-1	SDS	2	5/16	5/16	1 3/8	3/16	3.7	2 B 52 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	5.8
1 B 54 SDS	5.0	5.4	5.75	C-1	SDS	2	5/16	5/16	1 3/8	3/16	4.0	2 B 54 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	6.1
1 B 56 SDS	5.2	5.6	5.95	C-1	SDS	2	5/16	5/16	1 3/8	3/16	4.2	2 B 56 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	6.6
1 B 58 SDS	5.4	5.8	6.15	C-1	SDS	2	5/16	5/16	1 3/8	3/16	4.5	2 B 58 SDS	A-1	SDS	2	1/16	11/16	1 3/8	5/16	7.2
1 B 60 SDS	5.6	6.0	6.35	C-1	SDS	2	5/16	5/16	1 3/8	3/16	4.9	2 B 60 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	7.6
1 B 62 SDS	5.8	6.2	6.55	C-2	SDS	2	5/16	5/16	1 3/8	3/16	5.5	2 B 62 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	7.0
1 B 64 SDS	6.0	6.4	6.75	C-2	SDS	2	5/16	5/16	1 3/8	3/16	5.7	2 B 64 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	7.0
1 B 66 SDS	6.2	6.6	6.95	C-2	SDS	2	5/16	5/16	1 3/8	3/16	5.9	2 B 66 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	9.0
1 B 68 SDS	6.4	6.8	7.15	C-2	SDS	2	5/16	5/16	1 3/8	3/16	4.8	2 B 68 SDS	A-2	SDS	2	1/16	11/16	1 3/8	5/16	9.2
1 B 70 SDS	6.6	7.0	7.35	C-2	SDS	2	1/2	1/8	1 3/8	1/8	5.8	2 B 70 SK	D-2	SK	2 5/8	1/4	7/16	1 15/16	1/16	8.8
1 B 74 SDS	7.0	7.4	7.75	C-2	SDS	2	1/2	1/8	1 3/8	1/8	6.4	2 B 74 SK	D-2	SK	2 5/8	1/4	7/16	1 15/16	1/16	11.0
1 B 80 SDS	7.6	8.0	8.35	C-3	SDS	2	1/2	1/8	1 3/8	1/8	6.8	2 B 80 SK	D-2	SK	2 5/8	1/4	7/16	1 15/16	1/16	12.6
1 B 86 SDS	8.2	8.6	8.95	C-3	SDS	2	1/2	1/8	1 3/8	1/8	7.2	2 B 86 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	12.0
1 B 94 SDS	9.0	9.4	9.75	C-3	SDS	2	1/2	1/8	1 3/8	1/8	8.0	2 B 94 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	13.4
1 B 110 SDS	10.6	11.0	11.35	C-3	SDS	2	1/2	1/8	1 3/8	1/8	9.0	2 B 110 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	16.4
1 B 124 SDS	12.0	12.4	12.75	C-3	SDS	2	1/2	1/8	1 3/8	1/8	11.0	2 B 124 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	19.2
1 B 136 SDS	13.2	13.6	13.95	C-3	SDS	2	1/2	1/8	1 3/8	1/8	12.0	2 B 136 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	19.0
1 B 154 SK	15.0	15.4	15.75	C-3	SK	2 5/8	9/16	1/8	1 15/16	3/8	13.0	2 B 154 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	22.0
1 B 160 SK	15.6	16.0	16.35	C-3	SK	2 5/8	9/16	1/8	1 15/16	3/8	15.0	2 B 160 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	26.0
1 B 184 SK	18.0	18.4	18.75	C-3	SK	2 5/8	9/16	1/8	1 15/16	3/8	19.0	2 B 184 SK	D-3	SK	2 5/8	1/4	7/16	1 15/16	1/16	30.0
1 B 200 SK	19.6	20.0	20.35	C-3	SK	2 5/8	9/16	1/8	1 15/16	3/8	25.0	2 B 200 SF	D-3	SF	2 15/16	5/16	3/8	2 1/16	0	35.0
	24.6	25.0	25.35									2 B 250 SF	D-3	SF	2 15/16	5/16	3/8	2 1/16	0	57.0
	29.6	30.0	30.35									2 B 300 SF	D-3	SF	2 15/16	5/16	3/8	2 1/16	0	80.0
	37.6	38.0	38.35									2 B 380 SF	D-3	SF	2 15/16	5/16	3/8	2 1/16	0	99.0

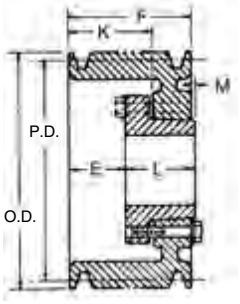
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

Martin

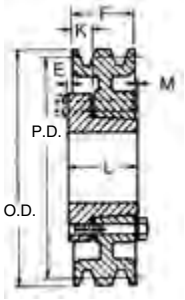
Combination Groove Conventional Stock QD Sheaves A-B



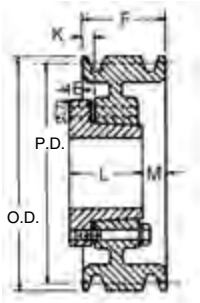
TYPE A



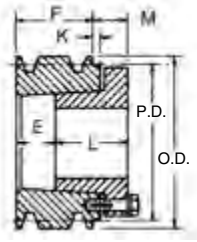
TYPE B



TYPE C



TYPE D



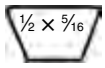
TYPE E

QD Sheaves — A-B

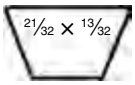
3 Groove F = 2½												4 Groove F = 3¼								
Part Number	PD A Belts	PD B Belts	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
3 B 34 SH	3.0	3.4	3.75	E-1	SH	1 11/16	1 3/4	0	1 5/16	9/16	3.4	4 B 34 SD	E-1	SD	2	2 3/8	5/16	1 13/16	1 5/16	4.0
3 B 36 SH	3.2	3.6	3.95	E-1	SH	1 11/16	3/8	3/16	1 5/16	1 9/16	3.8	4 B 36 SD	E-1	SD	2	2 3/8	5/16	1 13/16	1 5/16	5.0
3 B 38 SH	3.4	3.8	4.15	E-1	SH	1 11/16	3/8	3/16	1 5/16	1 9/16	4.0	4 B 38 SD	E-1	SD	2	2 3/8	5/16	1 13/16	1 5/16	5.5
3 B 40 SH	3.6	4.0	4.35	A-1	SH	1 11/16	1/2	1 1/16	1 5/16	1/16	4.5	4 B 40 SD	E-1	SD	2	2 1/16	0	1 13/16	5/8	6.0
3 B 42 SH	3.8	4.2	4.55	A-1	SH	1 11/16	1/2	1 1/16	1 5/16	1/16	5.0	4 B 42 SD	E-1	SD	2	2 1/16	0	1 13/16	5/8	7.0
3 B 44 SH	4.0	4.4	4.75	A-1	SH	1 11/16	1/2	1 1/16	1 5/16	1/16	5.5	4 B 44 SD	E-1	SD	2	2 1/16	0	1 13/16	5/8	7.3
3 B 46 SD	4.2	4.6	4.95	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	6.0	4 B 46 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	7.6
3 B 48 SD	4.4	4.8	5.15	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	6.5	4 B 48 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	8.0
3 B 50 SD	4.6	5.0	5.35	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	7.0	4 B 50 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	9.0
3 B 52 SD	4.8	5.2	5.55	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	8.0	4 B 52 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	10.0
3 B 54 SD	5.0	5.4	5.75	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	8.5	4 B 54 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	10.5
3 B 56 SD	5.2	5.6	5.95	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	9.0	4 B 56 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	11.0
3 B 58 SD	5.4	5.8	6.15	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	10.0	4 B 58 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	12.0
3 B 60 SD	5.6	6.0	6.35	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	11.0	4 B 60 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	12.5
3 B 62 SD	5.8	6.2	6.55	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	12.0	4 B 62 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	13.0
3 B 64 SD	6.0	6.4	6.75	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	12.3	4 B 64 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	14.0
3 B 66 SD	6.2	6.6	6.95	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	12.6	4 B 66 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	14.5
3 B 68 SD	6.4	6.8	7.15	A-1	SD	2	7/16	1 1/16	1 13/16	1/4	13.0	4 B 68 SD	A-1	SD	2	1/16	1 5/16	1 13/16	3/4	15.0
3 B 70 SK	6.6	7.0	7.35	A-1	SK	2 5/8	0	1 1/16	1 5/16	9/16	14.0	4 B 70 SK	A-1	SK	2 5/8	5/16	1	1 5/16	1	15.5
3 B 74 SK	7.0	7.4	7.75	A-1	SK	2 5/8	0	1 1/16	1 5/16	9/16	15.0	4 B 74 SK	A-1	SK	2 5/8	5/16	1	1 5/16	1	16.0
3 B 80 SK	7.6	8.0	8.35	A-1	SK	2 5/8	0	1 1/16	1 5/16	9/16	16.0	4 B 80 SK	A-1	SK	2 5/8	5/16	1	1 5/16	1	17.0
3 B 86 SK	8.2	8.6	8.95	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	17.0	4 B 86 SK	A-3	SK	2 5/8	5/16	1	1 5/16	1	18.0
3 B 94 SK	9.0	9.4	9.75	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	18.0	4 B 94 SK	A-3	SK	2 5/8	5/16	1	1 5/16	1	19.0
3 B 110 SK	10.6	11.0	11.35	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	19.0	4 B 110 SK	A-3	SK	2 5/8	5/16	1	1 5/16	1	24.0
3 B 124 SK	12.0	12.4	12.75	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	23.0	4 B 124 SK	A-3	SK	2 5/8	5/16	1	1 5/16	1	26.0
3 B 136 SK	13.2	13.6	13.95	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	24.1	4 B 136 SK	A-3	SK	2 5/8	5/16	1	1 5/16	1	28.0
3 B 154 SK	15.0	15.4	15.75	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	28.0	4 B 154 SF	A-3	SF	2 15/16	5/16	1	2 1/16	7/8	41.0
3 B 160 SK	15.6	16.0	16.35	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	29.0	4 B 160 SF	A-3	SF	2 15/16	5/16	1	2 1/16	7/8	42.0
3 B 184 SK	18.0	18.4	18.75	A-3	SK	2 5/8	0	1 1/16	1 5/16	9/16	37.0	4 B 184 SF	A-3	SF	2 15/16	5/16	1	2 1/16	7/8	48.0
3 B 200 SF	19.6	20.0	20.35	D-3	SF	2 15/16	1/16	5/8	2 1/16	1/2	39.0	4 B 200 SF	A-3	SF	2 15/16	5/16	1	2 1/16	7/8	58.0
3 B 250 SF	24.6	25.0	25.35	D-3	SF	2 15/16	1/16	5/8	2 1/16	1/2	67.0	4 B 250 E	A-3	E	3 1/2	1/8	1	2 5/8	1/2	78.0
3 B 300 SF	29.6	30.0	30.35	D-3	SF	2 15/16	1/16	5/8	2 1/16	1/2	74.0	4 B 300 E	A-3	E	3 1/2	1/8	1	2 5/8	1/2	93.0
3 B 380 E	37.6	38.0	38.35	D-3	E	3 1/2	1/4	5/8	2 5/8	1/8	122.0	4 B 380 E	A-3	E	3 1/2	1/8	1	2 5/8	1/2	138.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

A-B Combination Groove Conventional Stock QD Sheaves



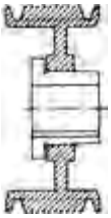
A



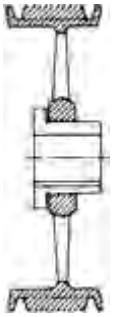
B



1 = SOLID



2 = WEB



3 = ARM/SPOKE

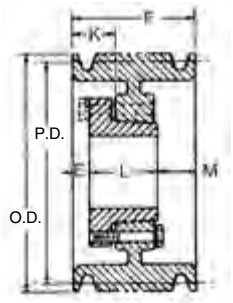
QD Sheaves — A-B

5 Groove F = 4												6 Groove F = 4¾									
Part Number	PD A Belts	PD B Belts	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
5 B 34 SD	3.0	3.4	3.75	E-1	SD	2	3¼	7/16	1 13/16	1 1/16	5.0	6 B 34 SD	E-1	SD	2	3⅞	5/16	1 13/16	15/16	6.0
5 B 36 SD	3.2	3.6	3.95	E-1	SD	2	3¼	7/16	1 13/16	1 1/16	6.0	6 B 36 SD	E-1	SD	2	3⅞	5/16	1 13/16	13/16	7.0
5 B 38 SD	3.4	3.8	4.15	E-1	SD	2	3⅛	5/16	1 13/16	15/16	6.5	6 B 38 SD	E-1	SD	2	3⅞	5/16	1 13/16	13/16	7.5
5 B 40 SD	3.6	4.0	4.35	E-1	SD	2	2 13/16	0	1 13/16	⅝	7.0	6 B 40 SD	E-1	SD	2	3 9/16	0	1 13/16	⅝	8.0
5 B 42 SD	3.8	4.2	4.55	E-1	SD	2	2 13/16	0	1 13/16	⅝	7.5	6 B 42 SD	E-1	SD	2	3 9/16	0	1 13/16	⅝	9.0
5 B 44 SD	4.0	4.4	4.75	E-1	SD	2	2 13/16	0	1 13/16	⅝	8.0	6 B 44 SD	E-1	SD	2	3 9/16	0	1 13/16	⅝	9.5
5 B 46 SD	4.2	4.6	4.95	A-1	SD	2	1 1/16	1 5/16	1 13/16	1½	9.0	6 B 46 SD	A-1	SD	2	9/16	1 3/16	1 13/16	2⅜	10.0
5 B 48 SD	4.4	4.8	5.15	A-1	SD	2	1 1/16	1 5/16	1 13/16	1½	9.5	6 B 48 SD	A-1	SD	2	2¼	1 3/16	1 13/16	2⅜	10.5
5 B 50 SD	4.6	5.0	5.35	A-1	SD	2	1 1/16	1 5/16	1 13/16	1½	10.0	6 B 50 SD	A-1	SD	2	2¼	1 3/16	1 13/16	2⅜	11.0
5 B 52 SD	4.8	5.2	5.55	A-1	SD	2	1 1/16	1 5/16	1 13/16	1½	10.5	6 B 52 SD	A-1	SD	2	2¼	1 3/16	1 13/16	2⅜	11.5
5 B 54 SK	5.0	5.4	5.75	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	11.0	6 B 54 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	12.0
5 B 56 SK	5.2	5.6	5.95	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	11.5	6 B 56 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	13.0
5 B 58 SK	5.4	5.8	6.15	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	12.0	6 B 58 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	14.0
5 B 60 SK	5.6	6.0	6.35	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	13.0	6 B 60 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	15.0
5 B 62 SK	5.8	6.2	6.55	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	14.0	6 B 62 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	16.0
5 B 64 SK	6.0	6.4	6.75	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	15.0	6 B 64 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	17.0
5 B 66 SK	6.2	6.6	6.95	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	16.0	6 B 66 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	18.0
5 B 68 SK	6.4	6.8	7.15	A-1	SK	2⅝	⅝	1 5/16	1 15/16	1 7/16	17.0	6 B 68 SK	A-1	SK	2⅝	⅝	1 5/16	1 15/16	2 3/16	19.0
5 B 70 SF	6.6	7.0	7.35	A-1	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	18.0	6 B 70 SF	A-1	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	19.5
5 B 74 SF	7.0	7.4	7.75	A-1	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	20.0	6 B 74 SF	A-1	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	22.0
5 B 80 SF	7.6	8.0	8.35	A-1	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	23.0	6 B 80 SF	A-1	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	25.0
5 B 86 SF	8.2	8.6	8.95	A-2	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	24.0	6 B 86 SF	A-2	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	28.0
5 B 94 SF	9.0	9.4	9.75	A-2	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	26.0	6 B 94 SF	A-2	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	29.0
5 B 110 SF	10.6	11.0	11.35	A-2	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	32.0	6 B 110 SF	A-2	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	30.0
5 B 124 SF	12.0	12.4	12.75	A-3	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	35.0	6 B 124 SF	A-3	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	40.0
5 B 136 SF	13.2	13.6	13.95	A-3	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	36.0	6 B 136 SF	A-3	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	45.0
5 B 154 SF	15.0	15.4	15.75	A-3	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	46.0	6 B 154 SF	A-3	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	46.0
5 B 160 SF	15.6	16.0	16.35	A-3	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	48.0	6 B 160 SF	A-3	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	50.0
5 B 184 SF	18.0	18.4	18.75	A-3	SF	2 15/16	⅝	1 5/16	2 1/16	1 5/16	50.0	6 B 184 SF	A-3	SF	2 15/16	1	1 1/16	2 1/16	1 1/16	60.0
5 B 200 E	19.6	20.0	20.35	A-3	E	3½	⅜	1¼	2⅝	1	72.0	6 B 200 E	A-3	E	3½	½	1⅜	2⅝	1⅝	78.0
5 B 250 E	24.6	25.0	25.35	A-3	E	3½	⅜	1¼	2⅝	1	90.0	6 B 250 E	A-3	E	3½	½	1⅜	2⅝	1⅝	98.0
5 B 300 E	29.6	30.0	30.35	A-3	E	3½	⅜	1¼	2⅝	1	108.0	6 B 300 E	A-3	E	3½	½	1⅜	2⅝	1⅝	109.0
5 B 380 E	37.6	38.0	38.35	A-3	E	3½	⅜	1¼	2⅝	1	145.0	6 B 380 E	A-3	E	3½	½	1⅜	2⅝	1⅝	173.0

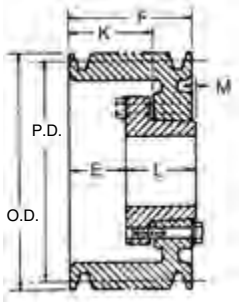
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

Martin

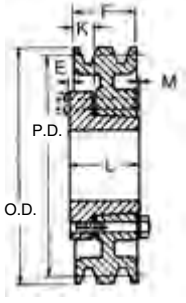
Combination Groove Conventional Stock QD Sheaves A-B



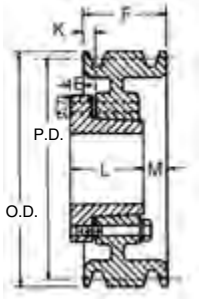
TYPE A



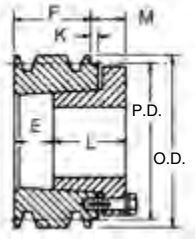
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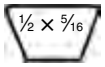
TYPE C



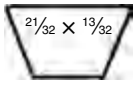
TYPE D



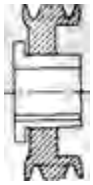
TYPE E



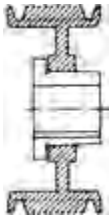
A



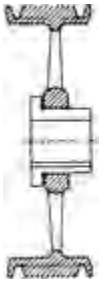
B



1 = SOLID



2 = WEB



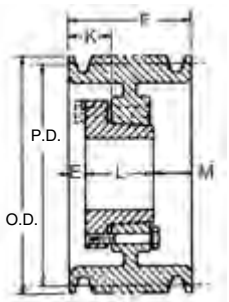
3 = ARM/SPOKE

QD Sheaves — A-B

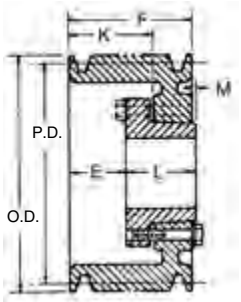
8 Groove F = 6¼												10 Groove F = 7¾								
Part Number	PD A Belts	PD B Belts	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
8 B 54 SK	5.0	5.4	5.75	A-1	SK	2⅝	1⅛	1 13/16	1 15/16	3⅜	14.0	10 B 54 SK	A-1	SK	2⅝	1⅞	2 9/16	1 15/16	3 15/16	15.0
8 B 56 SK	5.2	5.6	5.95	A-1	SK	2⅝	1⅛	1 13/16	1 15/16	3⅜	16.0	10 B 56 SK	A-1	SK	2⅝	1⅞	2 9/16	1 15/16	3 15/16	18.0
8 B 58 SK	5.4	5.8	6.15	A-1	SK	2⅝	1⅛	1 13/16	1 15/16	3⅜	16.5	10 B 58 SK	A-1	SK	2⅝	1⅞	2 9/16	1 15/16	3 15/16	20.0
8 B 60 SF	5.6	6.0	6.35	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	17.0	10 B 60 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	22.0
8 B 62 SF	5.8	6.2	6.55	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	18.0	10 B 62 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	24.0
8 B 64 SF	6.0	6.4	6.75	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	18.5	10 B 64 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	25.0
8 B 66 SF	6.2	6.6	6.95	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	21.0	10 B 66 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	26.0
8 B 68 SF	6.4	6.8	7.15	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	22.0	10 B 68 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	27.0
8 B 70 SF	6.6	7.0	7.35	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	22.5	10 B 70 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	28.0
8 B 74 SF	7.0	7.4	7.75	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	25.0	10 B 74 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	31.0
8 B 80 SF	7.6	8.0	8.35	A-1	SF	2 15/16	1⅛	1 13/16	2 1/16	3 1/16	29.0	10 B 80 SF	A-1	SF	2 15/16	1⅞	2 9/16	2 1/16	3 13/16	35.0
8 B 86 E	8.2	8.6	8.95	A-1	E	3½	1½	2⅜	2⅝	2⅛	34.0	10 B 86 E	A-1	E	3½	2¼	3⅛	2⅝	2⅞	38.0
8 B 94 E	9.0	9.4	9.75	A-1	E	3½	1½	2⅜	2⅝	2⅛	40.0	10 B 94 E	A-1	E	3½	2¼	3⅛	2⅝	2⅞	45.0
8 B 110 E	10.6	11.0	11.35	A-2	E	3½	1½	2⅜	2⅝	2⅛	47.0	10 B 110 E	A-2	E	3½	2¼	3⅛	2⅝	2⅞	53.0
8 B 124 E	12.0	12.4	12.75	A-3	E	3½	1½	2⅜	2⅝	2⅛	52.0	10 B 124 E	A-3	E	3½	2¼	3⅛	2⅝	2⅞	63.0
8 B 136 E	13.2	13.6	13.95	A-3	E	3½	1½	2⅜	2⅝	2⅛	60.0	10 B 136 F	A-3	F	3 15/16	1 1/16	2 1/16	3⅜	3 1/16	78.0
8 B 154 E	15.0	15.4	15.75	A-3	E	3½	1½	2⅜	2⅝	2⅛	82.0	10 B 154 F	A-3	F	3 15/16	1 1/16	2 1/16	3⅜	3 1/16	90.0
8 B 160 E	15.6	16.0	16.35	A-3	E	3½	1½	2⅜	2⅝	2⅛	90.0	10 B 160 F	A-3	F	3 15/16	1 1/16	2 1/16	3⅜	3 1/16	96.0
8 B 184 F	18.0	18.4	18.75	A-3	F	3 15/16	5/16	1 5/16	3⅜	2 5/16	110.0	10 B 184 F	A-3	F	3 15/16	1 1/16	2 1/16	3⅜	3 1/16	113.0
8 B 200 F	19.6	20.0	20.35	A-3	F	3 15/16	5/16	1 5/16	3⅜	2 5/16	122.0	10 B 200 F	A-3	F	3 15/16	1 1/16	2 1/16	3⅜	3 1/16	114.0
8 B 250 F	24.6	25.0	25.35	A-3	F	3 15/16	5/16	1 5/16	3⅜	2 5/16	138.0	10 B 250 F	A-3	F	3 15/16	1 1/16	2 1/16	3⅜	3 1/16	138.0
8 B 300 F	29.6	30.0	30.35	A-3	F	3 15/16	5/16	1 5/16	3⅜	2 5/16	168.0	10 B 300 F	A-3	F	3 15/16	1 1/16	2 1/16	3⅜	3 1/16	200.0
8 B 380 F	37.6	38.0	38.35	A-3	F	3 15/16	5/16	1 5/16	3⅜	2 5/16	222.0	10 B 380 J	A-3	J	4½	⅜	1 9/16	4½	2⅞	279.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

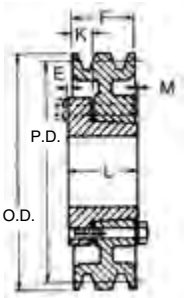
C Conventional Stock QD Sheaves



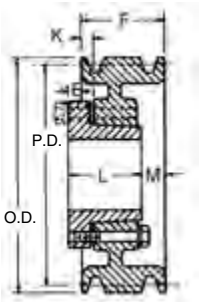
TYPE A



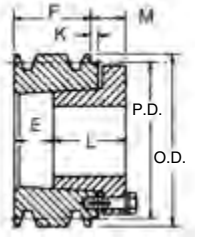
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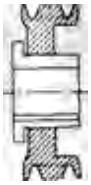
TYPE C



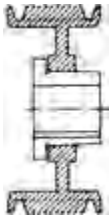
TYPE D



TYPE E



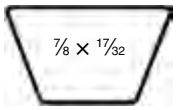
1 = SOLID



2 = WEB



3 = ARM/SPOKE

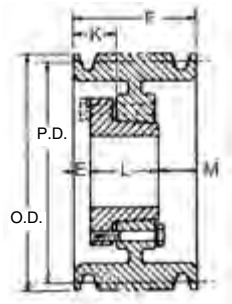


C

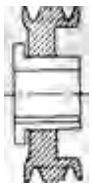
QD Sheaves — C

1 Groove F = 1⅜											2 Groove F = 2⅜								
Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
1 C 60 SK	6.00	6.40	C-1	SK	2⅝	9/16	⅛	1 15/16	0	9.4	2 C 60 SF	A-1	SF	2 15/16	3/16	⅞	2 1/16	⅛	8.0
1 C 70 SF	7.00	7.40	C-1	SF	2 15/16	9/16	⅛	2 1/16	⅛	9.8	2 C 70 SF	A-1	SF	2 15/16	⅛	13/16	2 1/16	3/16	12.0
1 C 75 SF	7.50	7.90	C-1	SF	2 15/16	9/16	⅛	2 1/16	⅛	11.0	2 C 75 SF	A-1	SF	2 15/16	⅛	13/16	2 1/16	3/16	15.0
1 C 80 SF	8.00	8.40	C-1	SF	2 15/16	9/16	⅛	2 1/16	⅛	13.0	2 C 80 SF	A-1	SF	2 15/16	⅛	13/16	2 1/16	3/16	16.0
1 C 85 SF	8.50	8.90	C-1	SF	2 15/16	9/16	⅛	2 1/16	⅛	13.3	2 C 85 SF	A-1	SF	2 15/16	⅛	13/16	2 1/16	3/16	19.0
1 C 90 SF	9.00	9.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	13.5	2 C 90 SF	A-2	SF	2 15/16	⅛	13/16	2 1/16	3/16	19.5
1 C 95 SF	9.50	9.90	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	13.8	2 C 95 SF	A-2	SF	2 15/16	⅛	13/16	2 1/16	3/16	21.0
1 C 100 SF	10.00	10.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	14.0	2 C 100 SF	A-2	SF	2 15/16	⅛	13/16	2 1/16	3/16	22.0
1 C 105 SF	10.50	10.90	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	15.0	2 C 105 SF	A-2	SF	2 15/16	⅛	13/16	2 1/16	3/16	25.0
1 C 110 SF	11.00	11.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	15.8	2 C 110 SF	A-3	SF	2 15/16	⅛	13/16	2 1/16	3/16	26.0
1 C 120 SF	12.00	12.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	17.0	2 C 120 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	29.0
1 C 130 SF	13.00	13.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	18.0	2 C 130 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	31.0
1 C 140 SF	14.00	14.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	20.0	2 C 140 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	35.0
1 C 150 SF	15.00	15.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	21.0	2 C 150 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	39.0
1 C 160 SF	16.00	16.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	24.0	2 C 160 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	43.0
1 C 180 SF	18.00	18.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	27.0	2 C 180 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	48.0
1 C 200 SF	20.00	20.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	31.0	2 C 200 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	55.0
1 C 240 SF	24.00	24.40	C-3	SF	2 15/16	9/16	⅛	2 1/16	⅛	37.0	2 C 240 SF	D-3	SF	2 15/16	⅛	9/16	2 1/16	7/16	65.0
	27.00	27.40									2 C 270 F	C-3	F	3 15/16	1/16	5/16	3⅝	9/16	107.0
	30.00	30.40									2 C 300 F	C-3	F	3 15/16	1/16	5/16	3⅝	9/16	115.0

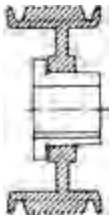
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.
See page B-3 and B-4 for additional bushing dimensions.



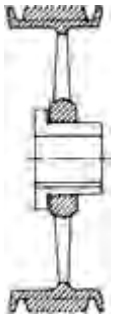
TYPE A



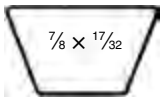
1 = SOLID



2 = WEB



3 = ARM/SPOKE



C

QD Sheaves — C

3 Groove — F = 3⅜

Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
3 C 50 SD	5.00	5.40	A-1	SD	2	5/8	1 1/4	1 3/16	15/16	8.0
3 C 54 SD	5.40	5.80	A-1	SD	2	1 1/16	1 5/16	1 3/16	7/8	9.0
3 C 55 SD	5.50	5.90	A-1	SD	2	1 1/16	1 5/16	1 3/16	7/8	10.0
3 C 56 SD	5.60	6.00	A-1	SD	2	1 1/16	1 5/16	1 3/16	7/8	11.0
3 C 60 SF	6.00	6.40	A-1	SF	2 15/16	3/16	7/8	2 1/16	1 1/8	12.0
3 C 70 SF	7.00	7.40	A-1	SF	2 15/16	5/8	1 5/16	2 1/16	1 1/16	14.0
3 C 75 SF	7.50	7.90	A-1	SF	2 15/16	5/8	1 5/16	2 1/16	1 1/16	17.0
3 C 80 E	8.00	8.40	B-1	E	3 1/2	7/8	1 3/4	2 5/8	1/8	19.0
3 C 85 E	8.50	8.90	B-1	E	3 1/2	7/8	1 3/4	2 5/8	1/8	22.0
3 C 90 E	9.00	9.40	B-1	E	3 1/2	7/8	1 3/4	2 5/8	1/8	26.0
3 C 95 E	9.50	9.90	B-1	E	3 1/2	7/8	1 3/4	2 5/8	1/8	29.0
3 C 100 E	10.00	10.40	B-1	E	3 1/2	7/8	1 3/4	2 5/8	1/8	27.0
3 C 105 E	10.50	10.90	B-2	E	3 1/2	7/8	1 3/4	2 5/8	1/8	31.0
3 C 110 E	11.00	11.40	B-2	E	3 1/2	7/8	1 3/4	2 5/8	1/8	38.0
3 C 120 E	12.00	12.40	B-3	E	3 1/2	7/8	1 3/4	2 5/8	1/8	40.0
3 C 130 E	13.00	13.40	B-3	E	3 1/2	7/8	1 3/4	2 5/8	1/8	43.0
3 C 140 E	14.00	14.40	B-3	E	3 1/2	7/8	1 3/4	2 5/8	1/8	46.0
3 C 150 E	15.00	15.40	B-3	E	3 1/2	7/8	1 3/4	2 5/8	1/8	52.0
3 C 160 E	16.00	16.40	B-3	E	3 1/2	7/8	1 3/4	2 5/8	1/8	58.0
3 C 180 E	18.00	18.40	B-3	E	3 1/2	7/8	1 3/4	2 5/8	1/8	67.0
3 C 200 E	20.00	20.40	A-3	E	3 1/2	1/8	1	2 5/8	5/8	70.0
3 C 240 E	24.00	24.40	A-3	E	3 1/2	1/8	1	2 5/8	5/8	90.0
3 C 270 F	27.00	27.40	C-3	F	3 15/16	3/16	13/16	3 3/8	1/16	124.0
3 C 300 F	30.00	30.40	C-3	F	3 15/16	3/16	13/16	3 3/8	1/16	130.0
3 C 360 F	36.00	36.40	C-3	F	3 15/16	3/16	13/16	3 3/8	1/16	166.0
3 C 440 F	44.00	44.40	C-3	F	3 15/16	3/16	13/16	3 3/8	1/16	208.0
3 C 500 F	50.00	50.40	C-3	F	3 15/16	3/16	13/16	3 3/8	1/16	250.0

4 Groove — F = 4⅜

Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
4 C 50 SD	A-1	SD	2	5/8	1 1/4	1 3/16	1 15/16	10.0
4 C 54 SD	A-1	SD	2	1 1/16	1 5/16	1 3/16	1 7/8	12.0
4 C 55 SD	A-1	SD	2	1 1/16	1 5/16	1 3/16	1 7/8	12.4
4 C 56 SD	A-1	SD	2	1 1/16	1 5/16	1 3/16	1 7/8	12.4
4 C 60 SF	A-1	SF	2 15/16	3/16	7/8	2 1/16	2 1/8	12.6
4 C 70 SF	A-2	SF	2 15/16	7/8	1 9/16	2 1/16	1 7/16	13.0
4 C 75 SF	A-2	SF	2 15/16	7/8	1 9/16	2 1/16	1 7/16	19.0
4 C 80 E	A-2	E	3 1/2	1 1/8	2	2 5/8	5/8	24.0
4 C 85 E	A-1	E	3 1/2	1 1/8	2	2 5/8	5/8	27.0
4 C 90 E	A-1	E	3 1/2	1 1/8	2	2 5/8	5/8	30.0
4 C 95 E	A-1	E	3 1/2	1 1/8	2	2 5/8	5/8	33.0
4 C 100 E	A-1	E	3 1/2	1 1/8	2	2 5/8	5/8	35.0
4 C 105 E	A-2	E	3 1/2	1 1/8	2	2 5/8	5/8	40.0
4 C 110 E	A-1	E	3 1/2	1 1/8	2	2 5/8	5/8	45.0
4 C 120 E	A-1	E	3 1/2	1 1/8	2	2 5/8	5/8	48.0
4 C 130 E	A-3	E	3 1/2	1 1/8	2	2 5/8	5/8	49.0
4 C 140 E	A-3	E	3 1/2	1 1/8	2	2 5/8	5/8	56.0
4 C 150 E	A-3	E	3 1/2	1 1/8	2	2 5/8	5/8	62.0
4 C 160 E	A-3	E	3 1/2	1 1/8	2	2 5/8	5/8	68.0
4 C 180 E	A-3	E	3 1/2	1 1/8	2	2 5/8	5/8	74.0
4 C 200 E	A-3	E	3 1/2	5/8	1 1/2	2 5/8	1 1/8	81.0
4 C 240 F	A-3	F	3 15/16	5/16	1 5/16	3 3/8	7/16	120.0
4 C 270 F	A-3	F	3 15/16	5/16	1 5/16	3 3/8	7/16	138.0
4 C 300 F	A-3	F	3 15/16	5/16	1 5/16	3 3/8	7/16	166.0
4 C 360 F	A-3	F	3 15/16	5/16	1 5/16	3 3/8	7/16	176.0
4 C 440 J	B-3	J	4 1/2	3/8	1 9/16	4 1/2	1/2	254.0
4 C 500 J	B-3	J	4 1/2	3/8	1 9/16	4 1/2	1/2	318.0

5 Groove — F = 5⅜

Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
5 C 60 SF	6.00	6.40	A-1	SF	2 15/16	3/8	7/8	2 1/16	3 1/8	14.0
5 C 70 SF	7.00	7.40	A-1	SF	2 15/16	1 1/4	1 15/16	2 1/16	2 1/16	19.0
5 C 75 SF	7.50	7.90	A-1	SF	2 15/16	1 1/4	1 15/16	2 1/16	2 1/16	22.0
5 C 80 E	8.00	8.40	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	28.0
5 C 85 E	8.50	8.90	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	31.0
5 C 90 E	9.00	9.40	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	32.0
5 C 95 E	9.50	9.90	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	36.0
5 C 100 E	10.00	10.40	A-2	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	38.0
5 C 105 E	10.50	10.90	A-2	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	43.0
5 C 110 E	11.00	11.40	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	50.0
5 C 120 E	12.00	12.40	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	55.0
5 C 130 E	13.00	13.40	A-3	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	58.0
5 C 140 E	14.00	14.40	A-3	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	61.0
5 C 150 E	15.00	15.40	A-3	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	69.0
5 C 160 E	16.00	16.40	A-3	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	75.0
5 C 180 E	18.00	18.40	A-3	E	3 1/2	1 1/2	2 3/8	2 5/8	1 1/4	85.0
5 C 200 F	20.00	20.40	A-3	F	3 15/16	5/16	1 5/16	3 3/8	1 7/16	108.0
5 C 240 F	24.00	24.40	A-3	F	3 15/16	5/16	1 5/16	3 3/8	1 7/16	124.0
5 C 270 F	27.00	27.40	A-3	F	3 15/16	5/16	1 5/16	3 3/8	1 7/16	154.0
5 C 300 F	30.00	30.40	A-3	F	3 15/16	5/16	1 5/16	3 3/8	1 7/16	174.0
5 C 360 J	36.00	36.40	A-3	J	4 1/2	3/8	1 9/16	4 1/2	1/2	226.0
5 C 440 J	44.00	44.40	A-3	J	4 1/2	3/8	1 9/16	4 1/2	1/2	289.0
5 C 500 J	50.00	50.40	A-3	J	4 1/2	3/8	1 9/16	4 1/2	1/2	316.0

6 Groove — F = 6⅜

Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
6 C 60 SF	A-1	SF	2 15/16	3/16	7/8	2 1/16	4 1/8	16.0
6 C 70 SF	A-1	SF	2 15/16	1 1/4	1 15/16	2 1/16	3 1/16	22.0
6 C 75 SF	A-1	SF	2 15/16	1 1/4	1 15/16	2 1/16	3 1/16	25.0
6 C 80 E	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	2 1/4	31.0
6 C 85 E	A-1	E	3 1/2	1 1/2	2 3/8	2 5/8	2 1/4	35.0
6 C 90 F	A-1	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	40.0
6 C 95 F	A-1	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	44.0
6 C 100 F	A-1	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	50.0
6 C 105 F	A-1	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	56.0
6 C 110 F	A-1	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	60.0
6 C 120 F	A-1	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	65.0
6 C 130 F	A-3	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	67.0
6 C 140 F	A-3	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	75.0
6 C 150 F	A-3	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	91.0
6 C 160 F	A-3	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	93.0
6 C 180 F	A-3	F	3 15/16	1 7/16	2 7/16	3 3/8	1 5/16	106.0
6 C 200 F	A-3	F	3 15/16	15/16	1 15/16	3 3/8	1 13/16	125.0
6 C 240 F	A-3	F	3 15/16	15/16	1 15/16	3 3/8	1 13/16	162.0
6 C 270 J	A-3	J	3 15/16	3/8	1 9/16	4 1/2	1 1/2	190.0
6 C 300 J	A-3	J	4 1/2	3/8	1 9/16	4 1/2	1 1/2	229.0
6 C 360 J	A-3	J	4 1/2	3/8	1 9/16	4 1/2	1 1/2	270.0
6 C 440 J	A-3	J	4 1/2	3/8	1 9/16	4 1/2	1 1/2	301.0
6 C 500 M	B-3	M	5 1/2	1/2	1 15/16	6 3/4	7/8	444.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

C Conventional Stock QD Sheaves

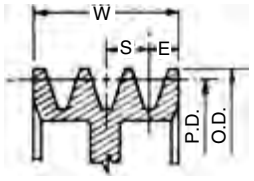
QD Sheaves — C

8 Groove F = 8⅜											10 Groove F = 10⅜								
Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E	K	L Length Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Length Thru Bore	M	Wt. Less Bush
8 C 70 SF	7.00	7.40	A-1	SF	2 15/16	2 5/16	3	2 1/16	4	35.0									
8 C 80 E	8.00	8.40	A-1	E	3½	2⅜	3¼	2⅝	3⅜	36.6	10 C 80 E	A-1	E	3½	2⅜	3¼	2⅝	5⅜	42.8
8 C 85 E	8.50	8.90	A-1	E	3½	2⅜	3¼	2⅝	3⅜	41.0	10 C 85 E	A-1	E	3½	2⅜	3¼	2⅝	5⅜	48.5
8 C 90 F	9.00	9.40	A-1	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	50.0	10 C 90 J	A-1	J	4½	2⅜	3 9/16	4½	3½	54.0
8 C 95 F	9.50	9.90	A-1	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	51.0	10 C 95 J	A-1	J	4½	2⅜	3 9/16	4½	3½	60.0
8 C 100 F	10.00	10.40	A-1	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	60.0	10 C 100 J	A-1	J	4½	2⅜	3 9/16	4½	3½	68.0
8 C 105 F	10.50	10.90	A-1	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	67.0	10 C 105 J	A-1	J	4½	2⅜	3 9/16	4½	3½	75.0
8 C 110 F	11.00	11.40	A-1	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	74.0	10 C 110 J	A-1	J	4½	2⅜	3 9/16	4½	3½	90.0
8 C 120 F	12.00	12.40	A-1	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	87.0	10 C 120 J	A-1	J	4½	2⅜	3 9/16	4½	3½	106.0
8 C 130 F	13.00	13.40	A-3	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	94.0	10 C 130 J	A-2	J	4½	2⅜	3 9/16	4½	3½	110.0
8 C 140 F	14.00	14.40	A-3	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	99.0	10 C 140 J	A-2	J	4½	2⅜	3 9/16	4½	3½	124.0
8 C 150 F	15.00	15.40	A-2	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	111.0	10 C 150 J	A-2	J	4½	2⅜	3 9/16	4½	3½	138.0
8 C 160 F	16.00	16.40	A-3	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	112.0	10 C 160 J	A-3	J	4½	2⅜	3 9/16	4½	3½	139.0
8 C 180 F	18.00	18.40	A-3	F	3 15/16	2 5/16	3 5/16	3⅜	2 7/16	116.0	10 C 180 J	A-3	J	4½	2⅜	3 9/16	4½	3½	168.0
8 C 200 J	20.00	20.40	A-3	J	4½	⅜	1 9/16	4½	3½	146.0	10 C 200 J	A-3	J	4½	2⅜	3 9/16	4½	3½	182.0
8 C 240 J	24.00	24.40	A-3	J	4½	⅜	1 9/16	4½	3½	195.0	10 C 240 M	A-3	M	5½	½	1 15/16	6¾	3⅛	272.0
8 C 270 J	27.00	27.40	A-3	J	4½	⅜	1 9/16	4½	3½	216.0									
8 C 300 J	30.00	30.40	A-3	J	4½	⅜	1 9/16	4½	3½	268.0	10 C 300 M	A-3	M	5½	½	1 15/16	6¾	3⅛	355.0
8 C 360 M	36.00	36.40	A-3	M	5½	½	1 15/16	6¾	1⅛	364.0	10 C 360 M	A-3	M	5½	½	1 15/16	6¾	3⅛	455.0
8 C 440 M	44.00	44.40	A-3	M	5½	½	1 15/16	6¾	1⅛	413.0	10 C 440 M	A-3	M	5½	½	1 15/16	6¾	3⅛	544.0
8 C 500 M	50.00	50.40	A-3	M	5½	½	1 15/16	6¾	1⅛	474.0	10 C 500 M	A-3	M	5½	½	1 15/16	6¾	3⅛	622.0

QD Sheaves — C

12 Groove F = 12⅜										
Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
12 C 90 J	9.00	9.40	A-1	J	4½	2⅞	4 1/16	4½	5	63.0
12 C 95 J	9.50	9.90	A-1	J	4½	2⅞	4 1/16	4½	5	75.0
12 C 100 J	10.00	10.40	A-1	J	4½	2⅞	4 1/16	4½	5	84.0
12 C 105 J	10.50	10.90	A-1	J	4½	2⅞	4 1/16	4½	5	86.0
12 C 110 J	11.00	11.40	A-1	J	4½	2⅞	4 1/16	4½	5	97.0
12 C 120 J	12.00	12.40	A-1	J	4½	2⅞	4 1/16	4½	5	119.0
12 C 130 J	13.00	13.40	A-2	J	4½	2⅞	4 1/16	4½	5	125.0
12 C 140 J	14.00	14.40	A-2	J	4½	2⅞	4 1/16	4½	5	139.0
12 C 150 J	15.00	15.40	A-2	J	4½	2⅞	4 1/16	4½	5	156.0
12 C 160 J	16.00	16.40	A-3	J	4½	2⅞	4 1/16	4½	5	175.0
12 C 180 J	18.00	18.40	A-3	J	4½	2⅞	4 1/16	4½	5	185.0
12 C 200 M	20.00	20.40	A-3	M	5½	½	1 15/16	6¾	5⅛	228.0
12 C 240 M	24.00	24.40	A-3	M	5½	½	1 15/16	6¾	5⅛	287.0
12 C 300 M	30.00	30.40	A-3	M	5½	½	1 15/16	6¾	5⅛	350.0
12 C 360 M	36.00	36.40	A-3	M	5½	½	1 15/16	6¾	5⅛	430.0
12 C 440 M	44.00	44.40	A-3	M	5½	½	1 15/16	6¾	5⅛	565.0
12 C 500 M	50.00	50.40	A-3	M	5½	½	1 15/16	6¾	5⅛	595.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.



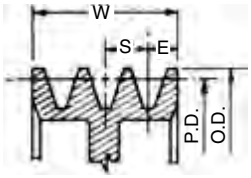
Combination Groove Dimensions

Belt Section	E	S	OD
"C"	11/16	1	P.D. + .40

W = S(N-1) + 2E
N = No. of Grooves

QD Sheaves — C

3 Groove F = 4⅝											4 Groove F = 6⅛								
Part Number	PD D Belt	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
3 D 120 F	12.0	12.6	A-2	F	3 15/16	½	1½	3⅝	½	58.0	4 D 120 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	68.0
3 D 130 F	13.0	13.6	A-2	F	3 15/16	½	1½	3⅝	½	63.0	4 D 130 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	78.0
3 D 135 F	13.5	14.1	A-2	F	3 15/16	½	1½	3⅝	½	68.0	4 D 135 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	82.0
3 D 140 F	14.0	14.6	A-2	F	3 15/16	½	1½	3⅝	½	71.0	4 D 140 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	91.0
3 D 145 F	14.5	15.1	A-2	F	3 15/16	½	1½	3⅝	½	82.0	4 D 145 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	93.0
3 D 150 F	15.0	15.6	A-2	F	3 15/16	½	1½	3⅝	½	86.0	4 D 150 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	99.0
3 D 155 F	15.5	16.1	A-2	F	3 15/16	½	1½	3⅝	½	93.0	4 D 155 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	111.0
3 D 160 F	16.0	16.6	A-2	F	3 15/16	½	1½	3⅝	½	95.0	4 D 160 F	A-2	F	3 15/16	1 5/16	2 5/16	3⅝	1⅛	122.0
											4 D 170 J	A-2	J	4½	1⅜	2 5/16	4½	3/16	136.0
3 D 180 J	18.0	18.6	A-3	J	4½	0	1 3/16	4½	⅛	105.0	4 D 180 J	A-3	J	4½	1⅜	2 5/16	4½	3/16	141.0
3 D 200 J	20.0	20.6	A-2	J	4½	0	1 3/16	4½	⅛	148.0	4 D 200 J	A-2	J	4½	⅜	1 9/16	4½	1 3/16	167.0
3 D 220 J	22.0	22.6	A-3	J	4½	0	1 3/16	4½	⅛	164.0	4 D 220 J	A-3	J	4½	⅜	1 9/16	4½	1 3/16	183.0
3 D 270 J	27.0	27.6	A-3	J	4½	0	1 3/16	4½	⅛	180.0	4 D 270 J	A-3	J	4½	⅜	1 9/16	4½	1 3/16	222.0
3 D 330 J	33.0	33.6	A-3	J	4½	0	1 3/16	4½	⅛	195.0	4 D 330 M	B-3	M	5½	½	1 15/16	6¾	1 3/16	315.0
3 D 400 J	40.0	40.6	A-3	J	4½	0	1 3/16	4½	⅛	260.0	4 D 400 M	B-3	M	5½	½	1 15/16	6¾	1 3/16	337.0



Groove Dimensions

Belt Section	E	S	O.D.
"D"	⅞	1 7/16	P.D. + .60

W = S(N-1) + 2E
N = No. of Grooves

QD Sheaves — C

5 Groove F = 7½										
Part Number	PD D OD	Belt	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
5 D 120 F	12.0	12.6	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	87.0
5 D 130 F	13.0	13.6	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	88.0
5 D 135 F	13.5	14.1	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	92.0
5 D 140 F	14.0	14.6	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	96.0
5 D 145 F	14.5	15.1	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	111.0
5 D 150 F	15.0	15.6	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	115.0
5 D 155 F	15.5	16.1	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	121.0
5 D 160 F	16.0	16.6	A-2	F	3 15/16	2 1/16	3 1/16	3⅝	1 13/16	128.0
5 D 170 J	17.0	17.6	A-2	J	4½	⅜	1 9/16	4½	2⅝	135.0
5 D 180 J	18.0	18.6	A-3	J	4½	⅜	1 9/16	4½	2⅝	148.0
5 D 200 J	20.0	20.6	A-3	J	4½	⅜	1 9/16	4½	2⅝	184.0
5 D 220 J	22.0	22.6	A-3	J	4½	⅜	1 9/16	4½	2⅝	202.0
5 D 270 M	27.0	27.6	A-3	M	5½	½	1 15/16	6¾	¼	250.0
5 D 330 M	33.0	33.6	A-3	M	5½	½	1 15/16	6¾	¼	280.0
5 D 400 M	40.0	40.6	A-3	M	5½	½	1 15/16	6¾	¼	380.0

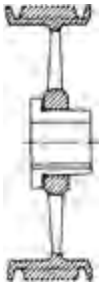
Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 an B-4 for additional bushing dimensions.



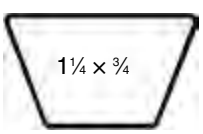
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2 = WEB

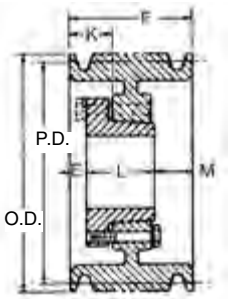


3 = ARM/SPOKE

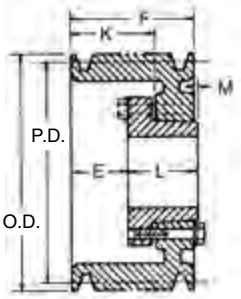


D

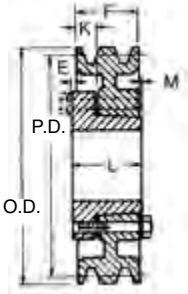
D Conventional Stock QD Sheaves



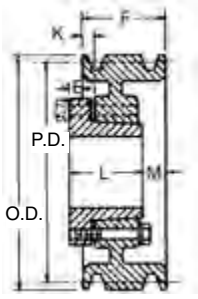
TYPE A



TYPE B



TYPE C



TYPE D

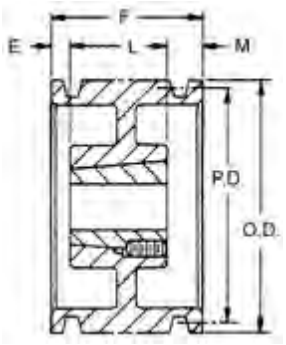
QD Sheaves — D

6 Groove F = 8 15/16											8 Groove F = 11 13/16								
Part Number	PD D Belt	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
6 D 120 J	12.00	12.60	A-1	J	4½	2⅛	3 5/16	4½	2 5/16	104.0	8 D 120 J	A-1	J	4½	2⅜	3 9/16	4½	4 15/16	126.0
6 D 130 J	13.00	13.60	A-1	J	4½	2⅛	3 5/16	4½	2 5/16	122.0	8 D 130 J	A-1	J	4½	2⅜	3 9/16	4½	4 15/16	147.0
6 D 135 J	13.50	14.10	A-1	J	4½	2⅛	3 5/16	4½	2 5/16	125.0	8 D 135 J	A-1	J	4½	2⅜	3 9/16	4½	4 15/16	150.0
6 D 140 J	14.00	14.60	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	128.0	8 D 140 J	A-1	J	4½	2⅜	3 9/16	4½	4 15/16	155.0
6 D 145 J	14.50	15.10	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	130.0	8 D 145 J	A-1	J	4½	2⅜	3 9/16	4½	4 15/16	160.0
6 D 150 J	15.00	15.60	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	136.0	8 D 150 J	A-2	J	4½	2⅜	3 9/16	4½	4 15/16	176.0
6 D 155 J	15.50	16.10	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	139.0	8 D 155 J	A-2	J	4½	2⅜	3 9/16	4½	4 15/16	180.0
6 D 160 J	16.00	16.60	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	141.0	8 D 160 J	A-2	J	4½	2⅜	3 9/16	4½	4 15/16	200.0
6 D 170 J	17.00	17.60	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	154.0	8 D 170 M	A-1	M	5½	2½	3 15/16	6¾	2 9/16	225.0
6 D 180 J	18.00	18.60	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	172.0	8 D 180 M	A-2	M	5½	2½	3 15/16	6¾	2 9/16	250.0
6 D 200 J	20.00	20.60	A-2	J	4½	2⅛	3 5/16	4½	2 5/16	183.0	8 D 200 M	A-2	M	5½	2½	3 15/16	6¾	2 9/16	270.0
6 D 220 M	22.00	22.60	A-2	M	5½	½	1 15/16	6¾	1 11/16	272.0	8 D 220 M	A-2	M	5½	½	1 15/16	6¾	4 9/16	316.0
6 D 270 M	27.00	27.60	A-3	M	5½	½	1 15/16	6¾	1 11/16	280.0	8 D 270 N	A-3	M	5½	½	1 15/16	6¾	4 9/16	440.0
6 D 330 M	33.00	33.60	A-3	M	5½	½	1 15/16	6¾	1 11/16	356.0	8 D 330 N	A-3	M	5½	½	1 15/16	6¾	4 9/16	458.0
6 D 400 M	40.00	40.60	A-3	M	5½	½	1 15/16	6¾	1 11/16	415.0	8 D 400 N	A-3	N	5½	½	2¼	8⅛	3 9/16	638.0
6 D 440 M	44.00	44.60	A-3	M	5½	½	1 15/16	6¾	1 11/16	536.0	8 D 440 N	A-3	N	6	½	2¼	8⅛	3 9/16	616.0
6 D 480 M	48.00	48.60	A-3	M	5½	½	1 15/16	6¾	1 11/16	572.0	8 D 480 N	A-3	N	6	½	2¼	8⅛	3 9/16	755.0
6 D 580 N	58.00	58.60	A-3	N	6	½	2¼	8⅛	5/16	1006.0	8 D 580 N	A-3	N	6	½	2¼	8⅛	3 9/16	1112.0

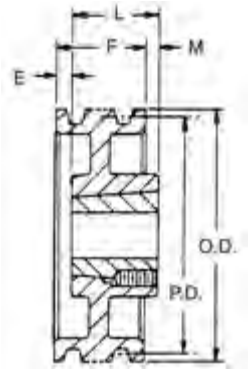
10 Groove F = 14 11/16											12 Groove F = 17 9/16								
Part Number	PD D Belt	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
10 D 120 M	12.00	12.60	A-1	M	5½	2½	3 15/16	6¾	5 7/16	158.0	12 D 120 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	158.0
10 D 125 M	12.50	13.10	A-1	M	5½	2½	3 15/16	6¾	5 7/16	178.0									
10 D 130 M	13.00	13.60	A-1	M	5½	2½	3 15/16	6¾	5 7/16	196.0	12 D 130 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	219.0
10 D 135 M	13.50	14.10	A-1	M	5½	2½	3 15/16	6¾	5 7/16	207.0	12 D 135 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	242.0
10 D 140 M	14.00	14.60	A-1	M	5½	2½	3 15/16	6¾	5 7/16	225.0	12 D 140 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	246.0
10 D 145 M	14.50	15.10	A-1	M	5½	2½	3 15/16	6¾	5 7/16	238.0	12 D 145 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	266.0
10 D 150 M	15.00	15.60	A-1	M	5½	2½	3 15/16	6¾	5 7/16	260.0	12 D 150 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	287.0
10 D 155 M	15.50	16.10	A-1	M	5½	2½	3 15/16	6¾	5 7/16	279.0	12 D 155 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	308.0
10 D 160 M	16.00	16.60	A-1	M	5½	2½	3 15/16	6¾	5 7/16	292.0	12 D 160 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	325.0
10 D 170 M	17.00	17.60	A-1	M	5½	2½	3 15/16	6¾	5 7/16	330.0	12 D 170 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	330.0
10 D 180 M	18.00	18.60	A-1	M	5½	2½	3 15/16	6¾	5 7/16	340.0	12 D 180 M	A-1	M	5½	3½	4 15/16	6¾	7 5/16	340.0
10 D 200 M	20.00	20.60	A-2	M	5½	2½	3 15/16	6¾	5 7/16	355.0	12 D 200 M	A-2	M	5½	3½	4 15/16	6¾	7 5/16	355.0
10 D 220 M	22.00	22.60	A-3	M	5½	1½	2 15/16	6¾	6 7/16	348.0	12 D 220 M	A-2	M	5½	2½	3 15/16	6¾	8 5/16	392.0
10 D 270 M	27.00	27.60	A-3	M	5½	1½	2 15/16	6¾	6 7/16	434.0	12 D 270 M	A-3	N	6	2½	4¼	6¾	6 15/16	505.0
10 D 330 N	33.00	33.60	A-3	N	6	1½	3¼	8⅛	5 7/16	502.0	12 D 330 M	A-3	N	6	2½	4¼	6¾	6 15/16	619.0
10 D 400 N	40.00	40.60	A-3	N	6	1½	3¼	8⅛	5 7/16	727.0	12 D 400 P	A-3	P	6¾	⅝	2⅝	8⅛	7 9/16	946.0
10 D 480 P	48.00	48.60	A-3	P	6¾	⅝	2⅝	9⅜	4 11/16	755.0	12 D 480 P	A-3	P	6¾	⅝	2⅝	8⅛	7 9/16	1155.0
10 D 580 P	58.00	58.60	A-3	P	6¾	⅝	2⅝	9⅜	4 11/16	1286.0	12 D 580 P	A-3	P	6¾	⅝	2⅝	8⅛	7 13/16	1576.0

☆ E and M dimensions are nominal and will vary depending on shaft tolerances. See page B-3 and B-4 for additional bushing dimensions.

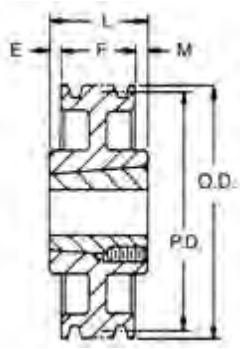
Hi-Cap Wedge Stock Taper Bushed Sheaves 3V



TYPE A



TYPE B



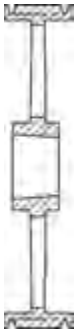
TYPE C



1 = SOLID



2 = WEB



3 = ARM/SPOKE



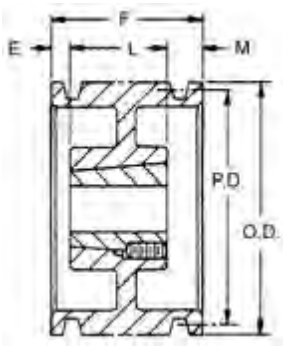
3V

Taper Bushed Sheaves — 3V

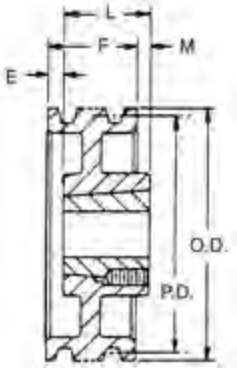
1 Groove										2 Groove							
F = 11/16*										F = 1 3/32							
Part Number	Diameters OD	Diameters Pitch 3V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
1 3V 265 TB	2.65	2.60	A-1	1108	1 1/8	7/32	7/8	0	.75	2 3V 265 TB	A-1	1108	1 1/8	7/32	7/8	0	.75
1 3V 280 TB	2.80	2.75	A-1	1108	1 1/8	7/32	7/8	0	.85	2 3V 280 TB	A-1	1108	1 1/8	7/32	7/8	0	.90
1 3V 300 TB	3.00	2.95	A-1	1108	1 1/8	7/32	7/8	0	1.00	2 3V 300 TB	A-1	1210	1 1/4	1/2	1	0	1.40
1 3V 315 TB	3.15	3.10	A-1	1108	1 1/8	7/32	7/8	0	1.25	2 3V 315 TB	A-1	1210	1 1/4	1/2	1	0	1.60
1 3V 335 TB	3.35	3.30	A-1	1610	1 5/8	0	1	0	1.50	2 3V 335 TB	A-1	1610	1 5/8	1/2	1	0	1.70
1 3V 365 TB	3.65	3.60	A-1	1610	1 5/8	0	1	0	2.00	2 3V 365 TB	A-1	1610	1 5/8	1/2	1 1/2	0	2.00
1 3V 412 TB	4.12	4.07	B-1	1610	1 5/8	0	1	13/32	2.25	2 3V 412 TB	A-1	1610	1 5/8	0	1	0	2.10
1 3V 450 TB	4.50	4.45	B-1	1610	1 5/8	0	1	13/32	3.00	2 3V 450 TB	A-1	1610	1 5/8	0	1	0	2.70
1 3V 475 TB	4.75	4.70	B-1	1610	1 5/8	0	1	13/32	3.25	2 3V 475 TB	A-1	1610	1 5/8	0	1	0	3.00
1 3V 500 TB	5.00	4.95	B-1	1610	1 5/8	0	1	13/32	3.50	2 3V 500 TB	A-1	1610	1 5/8	0	1	0	4.00
1 3V 530 TB	5.30	5.25	B-1	1610	1 5/8	0	1	13/32	3.75	2 3V 530 TB	A-1	1610	1 5/8	0	1	0	5.00
1 3V 560 TB	5.60	5.55	B-1	1610	1 5/8	0	1	13/32	4.00	2 3V 560 TB	A-1	1610	1 5/8	0	1	0	6.00
1 3V 600 TB	6.00	5.95	B-1	1610	1 5/8	0	1	13/32	5.00	2 3V 600 TB	A-1	1610	1 5/8	0	1	0	7.00
1 3V 650 TB	6.50	6.45	B-1	1610	1 5/8	0	1	13/32	6.00	2 3V 650 TB	A-1	1610	1 5/8	0	1	0	8.00
1 3V 690 TB	6.90	6.85	B-1	1610	1 5/8	0	1	13/32	7.00	2 3V 690 TB	A-1	1610	1 5/8	0	1	0	9.00
1 3V 800 TB	8.00	7.95	B-2	2517	2 1/2	0	1 3/4	1 1/16	9.00	2 3V 800 TB	B-2	2517	2 1/2	0	1 3/4	21/32	10.0
1 3V 1060 TB	10.60	10.55	B-2	2517	2 1/2	0	1 3/4	1 1/16	13.00	2 3V 1060 TB	B-2	2517	2 1/2	0	1 3/4	21/32	14.0
1 3V 1400 TB*	14.00	13.95	B-3	2517	2 1/2	0	1 3/4	15/16	15.00	2 3V 1400 TB	B-3	2517	2 1/2	0	1 3/4	21/32	18.0
1 3V 1900 TB*	19.00	18.95	B-3	3020	3	0	2	1 3/16	27.00	2 3V 1900 TB	B-3	3020	3	0	2	21/32	32.0
	25.00	24.95								2 3V 2500 TB	C-3	3020	3	1/8	2	21/32	45.0

* F= 11/16" thru 1 3V 1400 TB
F= 13/16" thru 1 3V 1400 TB and 1 3V 1900 TB

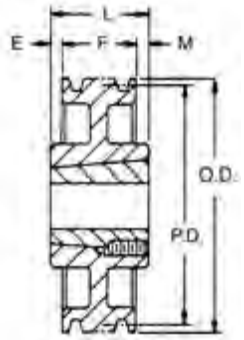
3V Hi-Cap Wedge Stock Taper Bushed Sheaves



TYPE A



TYPE B



TYPE C



1 = SOLID



2 = WEB



3 = ARM/SPOKE



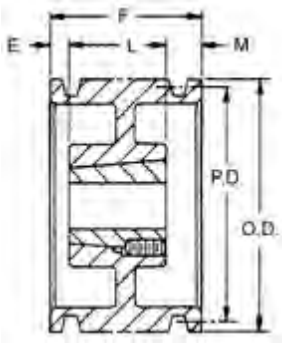
3V

Taper Bushed Sheaves — 3V

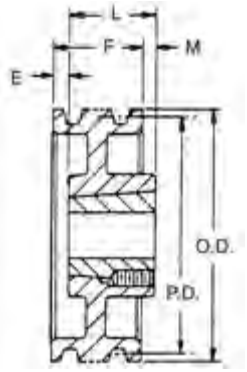
3 Groove F = 1½										4 Groove F = 1 29/32							
Part Number	Diameter OD	Diameter Pitch 3V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
3 3V 265 TB	2.65	2.60	A-1	1108	1⅛	⅝	⅞	0	1.0	4 3V 265 TB	A-1	1108	1⅛	1 1/32	⅞	0	1.2
3 3V 280 TB	2.80	2.75	A-1	1108	1⅛	⅝	⅞	0	1.1	4 3V 280 TB	A-1	1108	1⅛	1 1/32	⅞	0	1.3
3 3V 300 TB	3.00	2.95	A-1	1210	1¼	29/32	1	0	1.8	4 3V 300 TB	A-1	1210	1¼	1 5/16	1	0	2.1
3 3V 315 TB	3.15	3.10	A-1	1210	1¼	29/32	1	0	2.0	4 3V 315 TB	A-1	1210	1¼	1 5/16	1	0	2.2
3 3V 335 TB	3.35	3.30	A-1	1610	1⅝	29/32	1	0	2.3	4 3V 335 TB	A-1	1610	1⅝	1 5/16	1	0	2.4
3 3V 365 TB	3.65	3.60	A-1	1610	1⅝	29/32	1	0	2.6	4 3V 365 TB	A-1	1610	1⅝	29/32	1	0	2.8
3 3V 412 TB	4.12	4.07	A-1	1610	1⅝	½	1	0	3.0	4 3V 412 TB	A-1	1610	1⅝	29/32	1	0	3.0
3 3V 450 TB	4.50	4.45	A-1	1610	1⅝	½	1	0	3.2	4 3V 450 TB	A-1	1610	1⅝	29/32	1	0	4.0
3 3V 475 TB	4.75	4.70	A-1	1610	1⅝	½	1	0	4.0	4 3V 475 TB	A-1	1610	1⅝	29/32	1	0	5.0
3 3V 500 TB	5.00	4.95	A-1	1610	1⅝	½	1	0	4.5	4 3V 500 TB	A-1	1610	1⅝	29/32	1	0	5.5
3 3V 530 TB	5.30	5.25	A-1	1610	1⅝	½	1	0	5.0	4 3V 530 TB	A-1	1610	1⅝	29/32	1	0	6.0
3 3V 560 TB	5.60	5.55	A-1	1610	1⅝	½	1	0	6.0	4 3V 560 TB	A-1	1610	1⅝	29/32	1	0	7.0
3 3V 600 TB	6.00	5.95	B-1	2517	2½	5/32	1¾	13/32	7.0	4 3V 600 TB	A-1	2517	2½	5/32	1¾	0	8.0
3 3V 650 TB	6.50	6.45	B-1	2517	2½	5/32	1¾	13/32	9.0	4 3V 650 TB	A-1	2517	2½	5/32	1¾	0	10.0
3 3V 690 TB	6.90	6.85	B-1	2517	2½	5/32	1¾	13/32	10.0	4 3V 690 TB	A-1	2517	2½	5/32	1¾	0	12.0
3 3V 800 TB	8.00	7.95	B-1	2517	2½	5/32	1¾	13/32	15.0	4 3V 800 TB	A-1	2517	2½	5/32	1¾	0	18.0
3 3V 1060 TB	10.60	10.55	B-2	2517	2½	0	1¾	¼	18.0	4 3V 1060 TB	A-2	2517	2½	5/32	1¾	0	19.0
3 3V 1400 TB	14.00	13.95	B-3	2517	2½	0	1¾	¼	20.0	4 3V 1400 TB	A-3	2517	2½	0	1¾	5/32	22.0
3 3V 1900 TB	19.00	18.95	B-3	3020	3	0	2	½	36.0	4 3V 1900 TB	C-3	3020	3	0	2	3/32	45.0
3 3V 2500 TB	25.00	24.95	B-3	3020	3	0	2	½	47.0	4 3V 2500 TB	C-3	3020	3	0	2	3/32	63.0
3 3V 3350 TB	33.50	33.45	B-3	3020	3	¼	2	¼	76.0	4 3V 3350 TB	C-3	3030	3	35/64	3	35/64	80.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

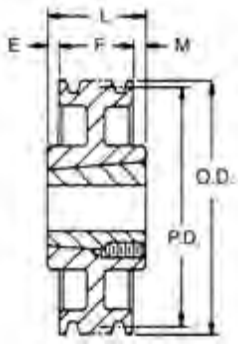
Hi-Cap Wedge Stock Taper Bushed Sheaves 3V



TYPE A



TYPE B



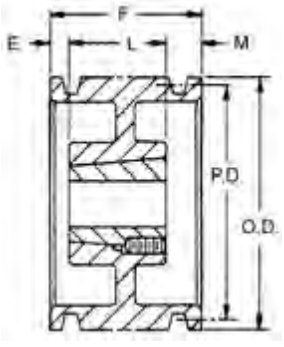
TYPE C

Taper Bushed Sheaves — 3V

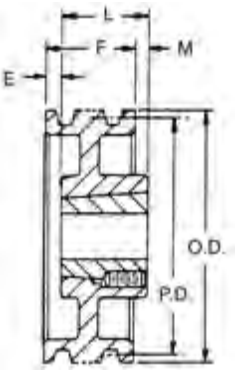
5 Groove F = 2 5/16										6 Groove F = 2 23/32							
Part Number	Diameter OD	Diameter Pitch 3V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
5 3V 450 TB	4.50	4.45	A-1	1615	1 5/8	0	1 1/2	13/16	4.0								
5 3V 475 TB	4.75	4.70	A-1	2517	2 1/2	9/16	1 3/4	0	4.0	6 3V 475 TB	A-1	2517	2 1/2	31/32	1 3/4	0	4.4
5 3V 500 TB	5.00	4.95	A-1	2517	2 1/2	9/16	1 3/4	0	4.8	6 3V 500 TB	A-1	2517	2 1/2	31/32	1 3/4	0	5.4
5 3V 530 TB	5.30	5.25	A-1	2517	2 1/2	9/16	1 3/4	0	5.9	6 3V 530 TB	A-1	2517	2 1/2	31/32	1 3/4	0	6.5
5 3V 560 TB	5.60	5.55	A-1	2517	2 1/2	9/16	1 3/4	0	7.0	6 3V 560 TB	A-1	2517	2 1/2	31/32	1 3/4	0	7.7
5 3V 600 TB	6.00	5.95	A-1	2517	2 1/2	9/16	1 3/4	0	8.0	6 3V 600 TB	A-1	2517	2 1/2	31/32	1 3/4	0	9.5
5 3V 650 TB	6.50	6.45	A-1	2517	2 1/2	9/16	1 3/4	0	11.0	6 3V 650 TB	A-1	2517	2 1/2	31/32	1 3/4	0	12.0
5 3V 690 TB	6.90	6.85	A-1	2517	2 1/2	9/16	1 3/4	0	13.0	6 3V 690 TB	A-1	2517	2 1/2	31/32	1 3/4	0	13.0
5 3V 800 TB	8.00	7.95	A-1	2517	2 1/2	9/16	1 3/4	0	19.0	6 3V 800 TB	A-1	2517	2 1/2	31/32	1 3/4	0	20.0
5 3V 1060 TB	10.60	10.55	A-2	2517	2 1/2	9/16	1 3/4	0	21.0	6 3V 1060 TB	A-2	2517	2 1/2	31/32	1 3/4	0	21.0
5 3V 1400 TB	14.00	13.95	A-3	2517	2 1/2	0	1 3/4	9/16	30.0	6 3V 1400 TB	A-3	2517	2 1/2	7/32	1 3/4	0	30.0
5 3V 1900 TB	19.00	18.95	A-3	3030	3	0	2	5/16	51.0	6 3V 1900 TB	B-3	3020	3	0	2	23/32	51.0
5 3V 2500 TB	25.00	24.95	B-3	3030	3	0	3	11/16	76.0	6 3V 2500 TB	B-3	3030	3	0	3	9/32	81.0
5 3V 3350 TB	33.50	33.45	C-3	3030	3	11/32	3	11/32	97.0	6 3V 3350 TB	C-3	3030	3	9/64	3	9/64	110.0

8 Groove F = 3 17/32										10 Groove F = 4 11/32							
Part Number	Diameter OD	Diameter Pitch 3V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
8 3V 475 TB	4.75	4.70	A-1	2517	2 1/2	1 25/32	1 3/4	0	5.0	10 3V 475 TB	A-1	2517	2 1/2	2 19/32	1 3/4	0	6.0
8 3V 500 TB	5.00	4.95	A-1	2517	2 1/2	1 25/32	1 3/4	0	6.0	10 3V 500 TB	A-1	2517	2 1/2	2 19/32	1 3/4	0	7.0
8 3V 530 TB	5.30	5.25	A-1	2517	2 1/2	1 1/32	1 3/4	3/4	7.8	10 3V 530 TB	A-1	2517	2 1/2	1 27/32	1 3/4	3/4	8.0
8 3V 560 TB	5.60	5.55	A-1	2517	2 1/2	1/4	1 3/4	1 17/32	9.0	10 3V 560 TB	A-1	2517	2 1/2	1/2	1 3/4	2 3/32	9.0
8 3V 600 TB	6.00	5.95	A-1	2517	2 1/2	1/4	1 3/4	1 17/32	11.0	10 3V 600 TB	A-1	2517	2 1/2	1/2	1 3/4	2 3/32	12.0
8 3V 650 TB	6.50	6.45	A-1	2517	2 1/2	1/4	1 3/4	1 17/32	13.0	10 3V 650 TB	A-1	2517	2 1/2	1/2	1 3/4	2 3/32	14.0
8 3V 690 TB	6.90	6.85	A-1	2517	2 1/2	1/4	1 3/4	1 17/32	15.0	10 3V 690 TB	A-1	2517	2 1/2	1/2	1 3/4	2 3/32	17.0
8 3V 800 TB	8.00	7.95	A-1	3020	3	1/2	2	1 1/32	19.0	10 3V 800 TB	A-1	3020	3	1/4	2	2 3/32	22.0
8 3V 1060 TB	10.60	10.55	A-2	3020	3	1/2	2	1 1/32	26.0	10 3V 1060 TB	A-2	3020	3	27/32	2	1 1/2	32.0
8 3V 1400 TB	14.00	13.95	A-3	3020	3	21/32	2	7/8	52.0	10 3V 1400 TB	A-2	3535	3 1/2	0	3 1/2	27/32	59.0
8 3V 1900 TB	19.00	18.95	A-3	3535	3 1/2	0	3 1/2	1/32	63.0	10 3V 1900 TB	A-3	3535	3 1/2	0	3 1/2	27/32	71.0
8 3V 2500 TB	25.00	24.95	A-3	3535	3 1/2	0	3 1/2	1/32	89.0	10 3V 2500 TB	A-3	4040	4	0	4	1 1/32	121.0
8 3V 3350 TB	33.50	33.45	C-3	4040	4	15/64	4	15/64	131.0	10 3V 3350 TB	A-3	4040	4	11/64	4	11/32	172.0

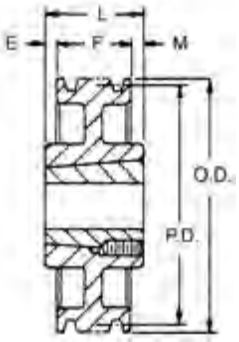
5V Hi-Cap Wedge Stock Taper Bushed Sheaves



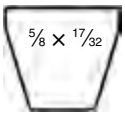
TYPE A



TYPE B



TYPE C



5V



1 = SOLID



2 = WEB



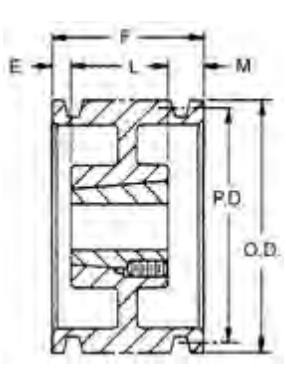
3 = ARM/ SPOKE

Taper Bushed Sheaves — 5V

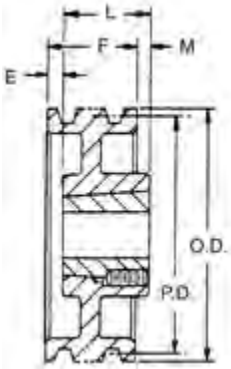
2 Groove F = 1 11/16										3 Groove F = 2 3/8							
Part Number	Diameter OD	Diameter Pitch 5V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
*2 5V 440 TB	4.4	4.30	A-1	1610	1 5/8	1/16	1	5/8	3.0	* 3 5V 440 TB	A-1	1610	1 5/8	1 3/8	1	0	4.0
*2 5V 465 TB	4.65	4.55	A-1	1610	1 5/8	1/16	1	5/8	3.0	* 3 5V 465 TB	A-1	1610	1 5/8	1/16	1	1 5/16	5.0
*2 5V 490 TB	4.9	4.80	A-1	1610	1 5/8	1/16	1	5/8	4.0	* 3 5V 490 TB	A-1	1610	1 5/8	1/16	1	1 5/16	5.0
*2 5V 520 TB	5.2	5.10	A-1	1610	1 5/8	1/16	1	5/8	4.2	* 3 5V 520 TB	A-1	1610	1 5/8	1/16	1	1 5/16	6.0
*2 5V 550 TB	5.5	5.40	A-1	1610	1 5/8	1/16	1	5/8	5.2	* 3 5V 550 TB	A-1	1610	1 5/8	1/16	1	1 5/16	6.0
*2 5V 590 TB	5.9	5.8	A-1	1610	1 5/8	1/16	1	5/8	5.6	* 3 5V 590 TB	A-1	2517	2 1/2	0	1 3/4	5/8	7.0
*2 5V 630 TB	6.3	6.20	A-1	1610	1 5/8	0	1	1 1/16	7.6	* 3 5V 630 TB	A-1	2517	2 1/2	0	1 3/4	5/8	9.0
*2 5V 670 TB	6.7	6.60	A-1	1610	1 5/8	0	1	1 1/16	9.4	* 3 5V 670 TB	A-1	2517	2 1/2	0	1 3/4	5/8	10.0
2 5V 710 TB	7.10	7.00	B-1	2517	2 1/2	1/16	1 3/4	0	10.0	3 5V 710 TB	A-1	2517	2 1/2	5/8	1 3/4	0	11.0
2 5V 750 TB	7.50	7.40	B-1	2517	2 1/2	1/16	1 3/4	0	13.0	3 5V 750 TB	A-1	2517	2 1/2	5/8	1 3/4	0	14.0
2 5V 800 TB	8.00	7.90	B-1	2517	2 1/2	1/16	1 3/4	0	14.0	3 5V 800 TB	A-1	2517	2 1/2	5/8	1 3/4	0	16.0
2 5V 850 TB	8.50	8.40	B-2	2517	2 1/2	1/16	1 3/4	0	15.0	3 5V 850 TB	A-2	2517	2 1/2	5/8	1 3/4	0	17.0
2 5V 900 TB	9.00	8.90	B-2	2517	2 1/2	1/16	1 3/4	0	16.0	3 5V 900 TB	A-2	2517	2 1/2	5/8	1 3/4	0	19.0
2 5V 925 TB	9.25	9.15	B-2	3020	3	0	2	5/16	17.0	3 5V 925 TB	A-1	3020	3	0	2	3/8	23.0
2 5V 975 TB	9.75	9.65	B-2	3020	3	0	2	5/16	18.0	3 5V 975 TB	A-1	3020	3	0	2	3/8	24.0
2 5V 1030 TB	10.30	10.20	B-2	3020	3	0	2	5/16	20.0	3 5V 1030 TB	A-2	3020	3	0	2	3/8	27.0
2 5V 1090 TB	10.90	10.80	B-2	3020	3	0	2	5/16	22.0	3 5V 1090 TB	A-2	3020	3	0	2	3/8	28.0
2 5V 1130 TB	11.30	11.20	B-2	3020	3	0	2	5/16	25.0	3 5V 1180 TB	A-2	3020	3	0	2	3/8	30.0
2 5V 1180 TB	11.80	11.70	B-2	3020	3	0	2	5/16	26.0	3 5V 1250 TB	A-2	3020	3	0	2	3/8	32.0
2 5V 1250 TB	12.50	12.40	B-2	3020	3	0	2	5/16	28.0	3 5V 1320 TB	A-2	3020	3	0	2	3/8	34.0
2 5V 1320 TB	13.20	13.10	B-3	3020	3	0	2	5/16	29.0	3 5V 1400 TB	A-3	3020	3	0	2	3/8	36.0
2 5V 1400 TB	14.00	13.90	B-3	3020	3	0	2	5/16	33.0	3 5V 1500 TB	A-3	3020	3	0	2	3/8	41.0
2 5V 1500 TB	15.00	14.90	B-3	3020	3	0	2	5/16	35.0	3 5V 1600 TB	A-3	3020	3	0	2	3/8	50.0
2 5V 1600 TB	16.00	15.90	B-3	3020	3	0	2	5/16	45.0	3 5V 1870 TB	A-3	3020	3	0	2	3/8	52.0
2 5V 1870 TB	18.7	18.60	C-3	3020	3	0	2	5/16	50.1	3 5V 2120 TB	B-3	3535	3 1/2	0	3 1/2	1 1/8	65.0
2 5V 2120 TB	21.20	21.10	C-3	3535	3 1/2	3/8	3 1/2	1 7/16	60.0	3 5V 2360 TB	C-3	3535	3 1/2	0	3 1/2	1 1/8	68.0
2 5V 2360 TB	23.6	23.50	C-3	3535	3 1/2	1/4	3 1/2	1 9/16	68.0	3 5V 2800 TB	B-3	3535	3 1/2	0	3 1/2	1 1/8	99.0
2 5V 2800 TB	28.00	27.90	C-3	3535	3 1/2	3/8	3 1/2	1 7/16	96.0	3 5V 3150 TB	C-3	3535	3 1/2	1/32	3 1/2	25/32	96.0
										3 5V 3750 TB	C-3	4040	4	1/2	4	1 1/8	172.0
										3 5V 5000 TB	C-3	4040	4	1/2	4	1 1/8	201.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.
* 5VX Belts only on these sizes.

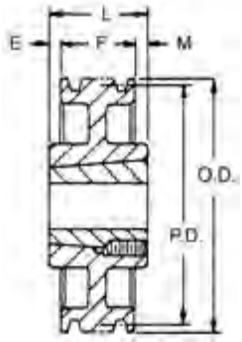
Hi-Cap Wedge Stock Taper Bushed Sheaves 5V



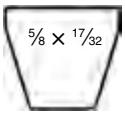
TYPE A



TYPE B



TYPE C



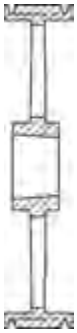
5V



1 = SOLID



2 = WEB



3 = ARM/ SPOKE

Taper Bushed Sheaves — 5V

4 Groove F = 3 1/16										5 Groove F = 3 3/4							
Part Number	Diameter OD	Diameter Pitch 5V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
*4 5V 440 TB	4.4	4.30	A-1	1610	1⅝	2 1/16	1	0	6.0								
*4 5V 465 TB	4.65	4.55	A-1	1610	1⅝	2 1/16	1	0	6.0								
*4 5V 490 TB	4.9	4.80	A-1	1610	1⅝	2 1/16	1	0	6.0								
*4 5V 520 TB	5.2	5.10	A-1	1610	1⅝	2 1/16	1	0	7.0								
*4 5V 550 TB	5.5	5.40	A-1	2517	2½	1 5/16	1¾	0	8.0								
*4 5V 590 TB	5.9	5.80	A-1	2517	2½	1 5/16	1¾	0	10.0	*5 5V 590 TB	A-1	2517	2½	9/16	1¾	1 7/16	11.0
*4 5V 630 TB	6.3	6.20	A-1	2517	2½	0	1¾	1 5/16	11.0	*5 5V 630 TB	A-1	2517	2½	9/16	1¾	1 7/16	12.0
*4 5V 670 TB	6.7	6.60	A-1	2517	2½	0	1¾	1 5/16	12.0	*5 5V 670 TB	A-1	2517	2½	9/16	1¾	1 7/16	13.0
4 5V 710 TB	7.10	7.00	A-1	2517	2½	1 5/16	1¾	0	14.0	5 5V 710 TB	A-1	3020	3	½	2	1¼	15.0
4 5V 750 TB	7.50	7.40	A-1	2517	2½	1 5/16	1¾	0	16.0	5 5V 750 TB	A-1	3020	3	½	2	1¼	17.0
4 5V 800 TB	8.00	7.90	A-1	2517	2½	1 5/16	1¾	0	17.0	5 5V 800 TB	A-1	3020	3	½	2	1¼	20.0
4 5V 850 TB	8.50	8.40	A-2	2517	2½	1 5/16	1¾	0	18.0	5 5V 850 TB	A-1	3020	3	½	2	1¼	22.0
4 5V 900 TB	9.00	8.90	A-2	2517	2½	1 5/16	1¾	0	19.0	5 5V 900 TB	A-1	3020	3	½	2	1¼	30.0
4 5V 925 TB	9.25	9.15	A-1	3020	3	½	2	9/16	22.0	5 5V 925 TB	A-1	3020	3	½	2	1¼	36.0
4 5V 975 TB	9.75	9.65	A-1	3020	3	½	2	9/16	27.0	5 5V 975 TB	A-1	3020	3	½	2	1¼	37.0
4 5V 1030 TB	10.30	10.20	A-2	3020	3	½	2	9/16	28.0	5 5V 1030 TB	A-2	3020	3	½	2	1¼	38.0
4 5V 1090 TB	10.90	10.80	A-2	3020	3	½	2	9/16	31.0	5 5V 1090 TB	A-2	3020	3	½	2	1¼	39.0
4 5V 1130 TB	11.3	11.20	A-1	3020	3	0	2	1 1/16	32.0	5 5V 1130 TB	A-1	3020	3	½	2	1¼	38.0
4 5V 1180 TB	11.80	11.70	A-2	3020	3	½	2	9/16	35.0	5 5V 1180 TB	A-2	3020	3	½	2	1¼	40.0
4 5V 1250 TB	12.50	12.40	A-2	3020	3	0	2	1 1/16	44.0	5 5V 1250 TB	A-2	3535	3½	0	3½	¼	50.0
4 5V 1320 TB	13.20	13.10	A-3	3020	3	0	2	1 1/16	42.0	5 5V 1320 TB	A-2	3535	3½	0	3½	¼	56.0
4 5V 1400 TB	14.00	13.90	B-3	3535	3½	0	3½	7/16	53.0	5 5V 1400 TB	A-3	3535	3½	0	3½	¼	58.0
4 5V 1500 TB	15.00	14.90	B-3	3535	3½	0	3½	7/16	54.0	5 5V 1500 TB	A-3	3535	3½	0	3½	¼	65.0
4 5V 1600 TB	16.00	15.90	B-3	3535	3½	0	3½	7/16	60.0	5 5V 1600 TB	A-3	3535	3½	0	3½	¼	70.0
4 5V 1870 TB	18.7	18.60	C-3	3535	3½	7/16	3½	0	63.0	5 5V 1870 TB	A-3	3535	3½	0	3½	¼	84.0
4 5V 2120 TB	21.20	21.10	B-3	3535	3½	0	3½	7/16	72.0	5 5V 2120 TB	B-3	4040	4	0	4	¼	115.0
4 5V 2360 TB	23.6	23.50	C-3	3535	3½	0	3½	7/16	79.0	5 5V 2360 TB	C-3	4040	4	0	4	¼	92.0
4 5V 2800 TB	28.00	27.90	B-3	3535	3½	0	3½	7/16	125.0	5 5V 2800 TB	B-3	4040	4	0	4	¼	160.0
4 5V 3150 TB	31.5	31.40	C-3	3535	3½	0	3½	7/16	114.0	5 5V 3150 TB	A-3	4040	4	0	4	¼	155.0
4 5V 3750 TB	37.50	37.40	B-3	4040	4	0	4	15/16	189.0	5 5V 3750 TB	B-3	4040	4	0	4	¼	182.0
4 5V 5000 TB	50.00	49.90	B-3	4040	4	0	4	15/16	371.0	5 5V 5000 TB	B-3	4545	4½	0	4½	¾	288.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.
* 5VX Belts only on these sizes.

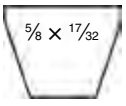
5V Hi-Cap Wedge Stock Taper Bushed Sheaves

Taper Bushed Sheaves — 5V

6 Groove F = 4 7/16										8 Groove F = 5 13/16							
Part Number	Diameter OD	Diameter Pitch 5V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
* 6 5V 590 TB	5.90	5.80	A-1	2517	2½	1⅛	1¾	1 9/16	13.0								
* 6 5V 630 TB	6.30	6.20	A-1	2517	2½	13/16	1¾	1⅞	13.0								
* 6 5V 670 TB	6.70	6.60	A-1	2517	2½	13/16	1¾	1⅞	15.0								
6 5V 710 TB	7.10	7.00	A-1	3020	3	¾	2	1 11/16	17.0	8 5V 710 TB	A-1	3030	3	1	3	1 13/16	24.0
6 5V 750 TB	7.50	7.40	A-1	3020	3	¾	2	1 11/16	20.0	8 5V 750 TB	A-1	3030	3	1	3	1 13/16	27.0
6 5V 800 TB	8.00	7.90	A-1	3020	3	¾	2	1 11/16	24.0	8 5V 800 TB	A-1	3030	3	1	3	1 13/16	33.0
6 5V 850 TB	8.50	8.40	A-1	3020	3	¾	2	1 11/16	28.0	8 5V 850 TB	A-1	3030	3	1	3	1 13/16	39.0
6 5V 900 TB	9.00	8.90	A-1	3020	3	¾	2	1 11/16	32.0	8 5V 900 TB	A-1	3535	3½	1	3½	1 5/16	44.0
6 5V 925 TB	9.25	9.15	A-1	3535	3½	0	3½	15/16	39.0	8 5V 925 TB	A-1	3535	3½	1	3½	1 5/16	48.0
6 5V 975 TB	9.75	9.65	A-1	3535	3½	0	3½	15/16	50.0	8 5V 975 TB	A-1	3535	3½	1	3½	1 5/16	55.0
6 5V 1030 TB	10.30	10.20	A-1	3535	3½	0	3½	15/16	58.0	8 5V 1030 TB	A-1	3535	3½	1	3½	1 5/16	64.0
6 5V 1090 TB	10.90	10.80	A-1	3535	3½	0	3½	15/16	60.0	8 5V 1090 TB	A-1	3535	3½	1	3½	1 5/16	68.0
	11.30	11.20								8 5V 1130 TB	A-1	3535	3½	1	3½	1 5/16	57.0
6 5V 1180 TB	11.80	11.70	A-2	3535	3½	0	3½	15/16	62.0	8 5V 1180 TB	A-1	3535	3½	1	3½	1 5/16	74.0
6 5V 1250 TB	12.50	12.40	A-2	3535	3½	0	3½	15/16	65.0	8 5V 1250 TB	A-1	4040	4	¼	4	1 9/16	82.0
6 5V 1320 TB	13.20	13.10	A-2	3535	3½	0	3½	15/16	68.0	8 5V 1320 TB	A-1	4040	4	¼	4	1 9/16	87.0
6 5V 1400 TB	14.00	13.90	A-2	3535	3½	0	3½	15/16	72.0	8 5V 1400 TB	A-2	4040	4	¼	4	1 9/16	90.0
6 5V 1500 TB	15.00	14.90	A-2	4040	4	0	4	7/16	91.0	8 5V 1500 TB	A-2	4040	4	¼	4	1 9/16	97.0
6 5V 1600 TB	16.00	15.90	A-3	4040	4	0	4	7/16	97.0	8 5V 1600 TB	A-3	4040	4	¼	4	1 9/16	106.0
6 5V 1870 TB	18.70	18.60	A-2	4040	4	0	4	7/16	97.0	8 5V 1870 TB	A-3	4040	4	¼	4	1 9/16	112.0
6 5V 2120 TB	21.20	21.10	A-3	4040	4	0	4	7/16	123.0	8 5V 2120 TB	A-3	4040	4	¼	4	1 9/16	144.0
6 5V 2360 TB	23.60	23.50	A-3	4040	4	0	4	7/16	124.0	8 5V 2360 TB	A-3	4040	4	¼	4	1 9/16	145.0
6 5V 2800 TB	28.00	27.90	A-3	4040	4	0	4	7/16	176.0	8 5V 2800 TB	A-3	4545	4½	¼	4½	1 1/16	206.0
6 5V 3150 TB	31.50	31.40	A-3	4040	4	0	4	7/16	171.0	8 5V 3150 TB	A-3	4545	4½	¼	4½	1 1/16	228.0
6 5V 3750 TB	37.50	37.40	B-3	4545	4½	0	4½	1/16	254.0	8 5V 3750 TB	A-3	4545	4½	¼	4½	1 1/16	271.0
6 5V 5000 TB	50.00	49.90	B-3	4545	4½	0	4½	1/16	386.0	8 5V 5000 TB	A-3	4545	4½	¼	4½	1 1/16	458.0

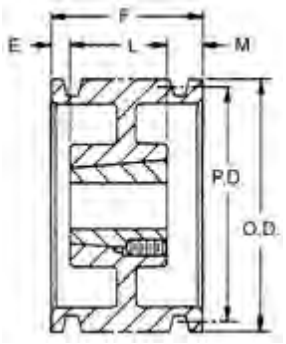
Taper Bushed Sheaves — 5V

10 Groove F = 7 3/16									
Part Number	Diameter OD	Diameter Pitch 5V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
10 5V 800 TB	8.00	7.90	A-1	3030	3	1	3	3 3/16	36.0
10 5V 850 TB	8.50	8.40	A-1	3030	3	1	3	3 3/16	42.0
10 5V 900 TB	9.00	8.90	A-1	3535	3½	1	3½	2 1/16	47.0
10 5V 925 TB	9.25	9.15	A-1	4040	4	1	4	2 3/16	50.0
10 5V 975 TB	9.75	9.65	A-1	4040	4	1	4	2 3/16	58.0
10 5V 1030 TB	10.30	10.20	A-1	4040	4	1	4	2 3/16	69.0
10 5V 1090 TB	10.90	10.80	A-1	4040	4	1	4	2 3/16	79.0
10 5V 1130 TB	11.30	11.20	A-1	4040	4	1	4	2 3/16	80.0
10 5V 1180 TB	11.80	11.70	A-1	4040	4	1	4	2 3/16	96.0
10 5V 1250 TB	12.50	12.40	A-2	4040	4	¾	4	2 7/16	116.0
10 5V 1320 TB	13.20	13.10	A-2	4040	4	¾	4	2 7/16	130.0
10 5V 1400 TB	14.00	13.90	A-2	4545	4½	¾	4½	1 15/16	150.0
10 5V 1500 TB	15.00	14.90	A-2	4545	4½	¾	4½	1 15/16	155.0
10 5V 1600 TB	16.00	15.90	A-2	4545	4½	¾	4½	1 15/16	160.0
10 5V 1870 TB	18.70	18.60	A-2	4545	4½	½	4½	2 3/16	116.0
10 5V 2120 TB	21.20	21.10	A-3	4545	4½	¾	4½	1 15/16	210.0
10 5V 2360 TB	23.60	23.50	A-2	4545	4½	½	4½	2 3/16	191.0
10 5V 2800 TB	28.00	27.90	A-3	4545	4½	¾	4½	1 15/16	248.0
10 5V 3150 TB	31.50	31.40	A-3	4545	4½	¾	4½	1 15/16	259.0
10 5V 3750 TB	37.50	37.40	A-3	4545	4½	¾	4½	1 15/16	375.0
10 5V 5000 TB	50.00	49.90	A-3	5050	5	¾	5	1 7/16	502.0

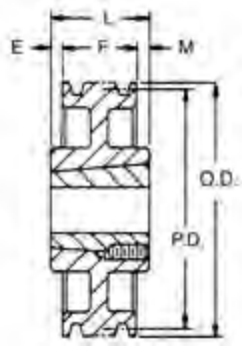


5V

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.
* 5VX Belts only on these sizes.



TYPE A



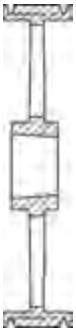
TYPE C



1 = SOLID



2 = WEB



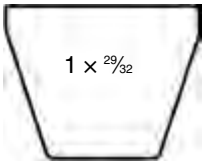
3 = ARM/SPOKE

Taper Bushed Sheaves — 8V

4 Groove F = 4⅞										5 Groove F = 6							
Part Number	Diameters OD	Diameters Pitch 8V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
4 8V 1250 TB	12.5	12.3	A-1	4040	4	0	4	⅞	88.0	5 8V 1250 TB	A-1	4040	4	3/16	4	1 13/16	100.0
4 8V 1320 TB	13.2	13.0	A-1	4040	4	0	4	⅞	102.0	5 8V 1320 TB	A-1	4040	4	3/16	4	1 13/16	115.0
4 8V 1400 TB	14.0	13.8	A-1	4040	4	0	4	⅞	123.0	5 8V 1400 TB	A-1	4040	4	3/16	4	1 13/16	133.0
4 8V 1500 TB	15.0	14.8	A-1	4040	4	0	4	⅞	145.0	5 8V 1500 TB	A-1	4040	4	3/16	4	1 13/16	156.0
4 8V 1600 TB	16.0	15.8	A-2	4040	4	0	4	⅞	111.0	5 8V 1600 TB	A-1	4040	4	½	4	1½	181.0
4 8V 1700 TB	17.0	16.8	A-2	4040	4	0	4	⅞	120.0	5 8V 1700 TB	A-2	4545	4½	0	4½	1½	146.0
4 8V 1800 TB	18.0	17.8	A-2	4040	4	0	4	⅞	130.0	5 8V 1800 TB	A-2	4545	4½	0	4½	1½	156.0
4 8V 1900 TB	19.0	18.8	A-2	4040	4	0	4	⅞	140.0	5 8V 1900 TB	A-2	4545	4½	0	4½	1½	176.0
4 8V 2000 TB	20.0	19.8	A-2	4545	4½	0	4½	⅜	151.0	5 8V 2000 TB	A-2	4545	4½	0	4½	1½	186.0
4 8V 2120 TB	21.2	21.0	A-3	4545	4½	0	4½	⅜	154.0	5 8V 2120 TB	A-3	4545	4½	0	4½	1½	195.0
4 8V 2240 TB	22.4	22.2	A-3	4545	4½	0	4½	⅜	185.0	5 8V 2240 TB	A-3	4545	4½	0	4½	1½	200.0
4 8V 2480 TB	24.8	24.6	D-3	5050	5	15/16	5	13/16	191.0	5 8V 2480 TB	A-3	5050	5	0	5	1½	206.0
4 8V 3000 TB	30.0	29.8	C-3	5050	5	0	5	⅛	246.0	5 8V 3000 TB	A-3	5050	5	0	5	1	278.0
4 8V 3550 TB	35.5	35.3	D-3	5050	5	1⅛	5	1	278.0	5 8V 3550 TB	A-3	5050	5	0	5	1	399.0
4 8V 4000 TB	40.0	39.8	B-3	5050	5	0	5	⅛	292.0	5 8V 4000 TB	A-3	5050	5	0	5	1	350.0
4 8V 4450 TB	44.5	44.3	D-3	5050	5	¼	5	⅛	367.0	5 8V 4450 TB	A-3	5050	5	0	5	1	572.0
4 8V 5300 TB	53.0	52.8	B-3	5050	5	0	5	⅛	573.0	5 8V 5300 TB	A-3	5050	5	0	5	1	565.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

8V Hi-Cap Wedge Stock Taper Bushed Sheaves



8V

Taper Bushed Sheaves — 8V

6 Groove — F = 6⅛

Part Number	Diameters OD	Diameters Pitch 8V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
6 8V 1250 TB	12.5	12.3	A-1	4040	4	1	4	2⅛	100.0
6 8V 1320 TB	13.2	13.0	A-1	4040	4	1	4	2⅛	124.0
6 8V 1400 TB	14.0	13.8	A-1	4040	4	1	4	2⅛	142.0
6 8V 1500 TB	15.0	14.8	A-1	4545	4½	½	4½	2⅛	153.0
6 8V 1600 TB	16.0	15.8	A-2	4545	4½	½	4½	2⅛	170.0
6 8V 1700 TB	17.0	16.8	A-2	4545	4½	½	4½	2⅛	175.0
6 8V 1800 TB	18.0	17.8	A-2	4545	4½	½	4½	2⅛	180.0
6 8V 1900 TB	19.0	18.8	A-2	4545	4½	½	4½	2⅛	182.0
6 8V 2000 TB	20.0	19.8	A-2	5050	5	½	5	1⅝	226.0
6 8V 2120 TB	21.2	21.0	A-3	5050	5	½	5	1⅝	246.0
6 8V 2240 TB	22.4	22.2	A-3	5050	5	½	5	1⅝	267.0
6 8V 2480 TB	24.8	24.6	D-3	5050	5	⅛	5	2¼	236.0
6 8V 3000 TB	30.0	29.8	A-3	5050	5	½	5	1⅝	398.0
6 8V 3550 TB	35.5	35.3	A-3	5050	5	½	5	1⅝	363.0
6 8V 4000 TB	40.0	39.8	A-3	5050	5	½	5	1⅝	468.0
6 8V 4450 TB	44.5	44.3	A-3	5050	5	½	5	1⅝	485.0
6 8V 5300 TB	53.0	52.8	A-3	5050	5	½	5	1⅝	658.0

8 Groove — F = 9⅜

Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
8 8V 1250 TB	A-1	4545	4½	1½	4½	3⅜	125.0
8 8V 1320 TB	A-1	4545	4½	1½	4½	3⅜	135.0
8 8V 1400 TB	A-1	4545	4½	1½	4½	3⅜	156.0
8 8V 1500 TB	A-1	4545	4½	1½	4½	3⅜	160.0
8 8V 1600 TB	A-2	4545	4½	1½	4½	3⅜	166.0
8 8V 1700 TB	A-2	5050	5	1	5	3⅜	265.0
8 8V 1800 TB	A-2	5050	5	1	5	3⅜	204.0
8 8V 1900 TB	A-2	5050	5	1	5	3⅜	228.0
8 8V 2000 TB	A-2	5050	5	1	5	3⅜	234.0
8 8V 2120 TB	A-3	5050	5	1	5	3⅜	246.0
8 8V 2240 TB	A-3	5050	5	1	5	3⅜	300.0
8 8V 2480 TB	A-3	5050	5	2⅛	5	2¼	285.0
8 8V 3000 TB	A-3	5050	5	1	5	3⅜	384.0
8 8V 3550 TB	A-3	5050	5	1	5	3⅜	441.0
8 8V 4000 TB	A-3	5050	5	1	5	3⅜	556.0
8 8V 4450 TB	A-3	6050	5	1	5	3⅜	596.0
8 8V 5300 TB	A-3	6050	6	1	5	3⅜	1040.0

10 Groove — F = 11⅝

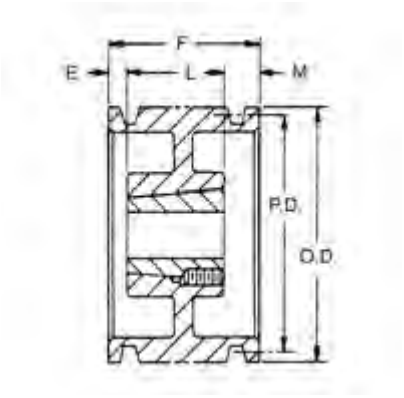
Part Number	Diameters OD	Diameters Pitch 8V	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	12.5	12.3							
10 8V 1320 TB	13.2	13.0	A-1	4545	4½	1	4½	6⅛	150.0
10 8V 1400 TB	14.0	13.8	A-1	4545	4½	1	4½	6⅛	180.0
10 8V 1500 TB	15.0	14.8	A-1	5050	5	1	5	5⅝	211.0
10 8V 1600 TB	16.0	15.8	A-1	5050	5	1	5	5⅝	220.0
10 8V 1700 TB	17.0	16.8	A-2	5050	5	2¼	5	4⅜	228.0
10 8V 1800 TB	18.0	17.8	A-2	5050	5	2¼	5	4⅜	244.0
10 8V 1900 TB	19.0	18.8	A-2	5050	5	2¼	5	4⅜	260.0
10 8V 2000 TB	20.0	19.8	A-2	5050	5	2¼	5	4⅜	270.0
10 8V 2120 TB	21.2	21.0	A-2	5050	5	2¼	5	4⅜	282.0
10 8V 2240 TB	22.4	22.2	A-3	5050	5	2¼	5	4⅜	312.0
10 8V 2480 TB	24.8	24.6	A-3	5050	5	2⅜	5	4¼	328.0
10 8V 3000 TB	30.0	29.8	A-3	5050	5	2¼	5	4⅜	448.0
10 8V 3550 TB	35.5	35.3	A-3	6050	6	2¼	5	4⅜	517.0
10 8V 4000 TB	40.0	39.8	A-3	6050	6	2¼	5	4⅜	550.0
10 8V 4450 TB	44.5	44.3	A-3	6050	6	2¼	5	4⅜	701.0
10 8V 5300 TB	53.0	52.8	A-3	6050	6	2¼	5	4⅜	870.0

12 Groove — F = 13⅞

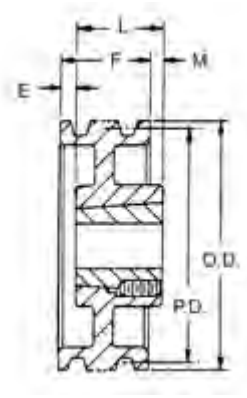
Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
12 8V 1250 TB	A-1	5050	5	3 3/16	5	5 11/16	153.0
12 8V 1320 TB	A-1	5050	5	3	5	5⅞	180.0
12 8V 1400 TB	A-1	5050	5	3 3/16	5	5 11/16	186.0
12 8V 1500 TB	A-2	5050	5	1⅞	5	7	221.0
12 8V 1600 TB	A-2	5050	5	1⅞	5	7	247.0
12 8V 1700 TB	A-2	5050	5	3½	5	5⅜	267.0
12 8V 1800 TB	A-2	5050	5	3 17/32	5	5 11/32	274.0
12 8V 1900 TB	A-2	5050	5	2¼	5	6⅝	306.0
12 8V 2000 TB	A-3	5050	5	2¼	5	6⅝	249.0
12 8V 2120 TB	A-3	5050	5	2¼	5	6⅝	294.0
12 8V 2240 TB	A-3	5050	5	2¼	5	6⅝	337.0
12 8V 2480 TB	A-3	5050	5	5⅜	5	3½	380.0
12 8V 3000 TB	A-3	6050	6	4	5	4⅞	482.0
12 8V 3550 TB	A-3	6050	6	4	5	4⅞	597.0
12 8V 4000 TB	A-3	6050	6	4	5	4⅞	702.0
12 8V 4450 TB	A-3	6050	6	4	5	4⅞	814.0
12 8V 5300 TB	A-3	7060	6	5	5	2⅞	1077.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

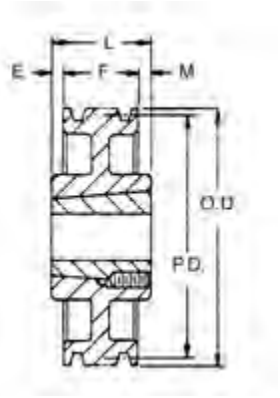
Combination Groove Conventional Taper Bushed Stock Sheaves A-B



TYPE A



TYPE B



TYPE C

Taper Bushed Sheaves — A-B

1 Groove											2 Groove							
F = 1*											F = 1¾							
Part Number	Pitch Diameters A Belt	Pitch Diameters B Belt	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
1 B 34 TB	3.0	3.4	3.75	A-1	1210	1¼	0	1	0	2.2	2 B 34 TB	A-1	1210	1¼	¾	1	0	2.2
1 B 36 TB	3.2	3.6	3.95	A-1	1210	1¼	0	1	0	2.6	2 B 36 TB	A-1	1210	1¼	¾	1	0	2.6
1 B 38 TB	3.4	3.8	4.15	A-1	1610	1⅝	0	1	0	2.8	2 B 38 TB	A-1	1610	1⅝	¾	1	0	2.8
1 B 40 TB	3.6	4.0	4.35	A-1	1610	1⅝	0	1	0	3.0	2 B 40 TB	A-1	1610	1⅝	¾	1	0	3.0
1 B 42 TB	3.8	4.2	4.55	A-1	1610	1⅝	0	1	0	3.5	2 B 42 TB	A-1	1610	1⅝	¾	1	0	4.0
1 B 44 TB	4.0	4.4	4.75	A-1	1610	1⅝	0	1	0	3.8	2 B 44 TB	A-1	1610	1⅝	¾	1	0	4.5
1 B 46 TB	4.2	4.6	4.95	A-1	1610	1⅝	0	1	0	4.0	2 B 46 TB	A-1	1610	1⅝	¾	1	0	5.0
1 B 48 TB	4.4	4.8	5.15	A-1	1610	1⅝	0	1	0	4.5	2 B 48 TB	A-1	1610	1⅝	¾	1	0	5.5
1 B 50 TB	4.6	5.0	5.35	A-1	1610	1⅝	0	1	0	4.8	2 B 50 TB	A-1	1610	1⅝	¾	1	0	6.0
1 B 52 TB	4.8	5.2	5.55	A-1	1610	1⅝	0	1	0	5.0	2 B 52 TB	A-1	1610	1⅝	¾	1	0	6.5
1 B 54 TB	5.0	5.4	5.75	A-1	1610	1⅝	0	1	0	5.5	2 B 54 TB	A-1	1610	1⅝	¾	1	0	7.0
1 B 56 TB	5.2	5.6	5.95	A-1	1610	1⅝	0	1	0	6.0	2 B 56 TB	A-1	1610	1⅝	¾	1	0	8.2
1 B 58 TB	5.4	5.8	6.15	A-1	1610	1⅝	0	1	0	6.3	2 B 58 TB	A-1	1610	1⅝	¾	1	0	8.6
1 B 60 TB	5.6	6.0	6.35	A-1	1610	1⅝	0	1	0	6.7	2 B 60 TB	A-1	1610	1⅝	¾	1	0	8.8
1 B 62 TB	5.8	6.2	6.55	A-1	1610	1⅝	0	1	0	7.0	2 B 62 TB	A-1	1610	1⅝	¾	1	0	9.0
1 B 64 TB	6.0	6.4	6.75	A-1	1610	1⅝	0	1	0	8.0	2 B 64 TB	A-1	1610	1⅝	¾	1	0	10.0
1 B 66 TB	6.2	6.6	6.95	A-1	1610	1⅝	0	1	0	8.5	2 B 66 TB	A-1	1610	1⅝	¾	1	0	10.5
1 B 68 TB	6.4	6.8	7.15	A-1	1610	1⅝	0	1	0	9.0	2 B 68 TB	A-1	1610	1⅝	¾	1	0	11.0
1 B 70 TB	7.0	7.4	7.35	B-1	2517	2½	0	1¾	¾	8.5	2 B 74 TB	A-1	2517	2½	0	1¾	0	16.0
1 B 74 TB	7.0	7.4	7.75	B-1	2517	2½	0	1¾	¾	9.4	2 B 86 TB	A-2	2517	2½	0	1¾	0	18.0
1 B 86 TB	8.2	8.6	8.95	B-2	2517	2½	0	1¾	¾	12.0	2 B 94 TB	A-2	2517	2½	0	1¾	0	20.0
1 B 94 TB	9.0	9.4	9.75	B-2	2517	2½	0	1¾	¾	14.0	2 B 110 TB	A-2	2517	2½	0	1¾	0	25.0
1 B 110 TB	10.6	11.0	11.35	B-2	2517	2½	0	1¾	¾	15.6	2 B 124 TB	A-3	2517	2½	0	1¾	0	27.0
1 B 124 TB	12.0	12.4	12.75	C-3	2517	2½	¼	1¾	½	16.2	2 B 136 TB	C-3	2517	2½	0	1¾	0	24.0
1 B 136 TB	13.6	14.0	13.95	C-3	2517	2½	¼	1¾	½	17.2	2 B 154 TB	A-3	2517	2½	0	1¾	0	31.0
1 B 154 TB	15.0	15.4	15.75	C-3	2517	2½	¼	1¾	½	18.0	2 B 160 TB	C-3	2517	2½	0	1¾	0	26.0
1 B 160 TB	16.0	16.4	16.35	C-3	2517	2½	⅜	1¾	⅜	24.1	2 B 184 TB	A-3	2517	2½	0	1¾	0	33.0
1 B 184 TB	18.0	18.4	18.75	C-3	2517	2½	3/16	1¾	7/16	31.2	2 B 200 TB	C-3	3020	3	0	2	¼	49.0
											2 B 250 TB	C-3	3020	3	0	2	¼	65.0
											2 B 300 TB	C-3	3020	3	0	2	¼	75.0
											2 B 380 TB	C-3	3020	3	0	2	¼	112.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

* F = 1" 1 B 154 TB
F = 1⅛" for 1 B 184 TB

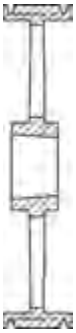
A-B Combination Groove Conventional Taper Bushed Stock Sheaves



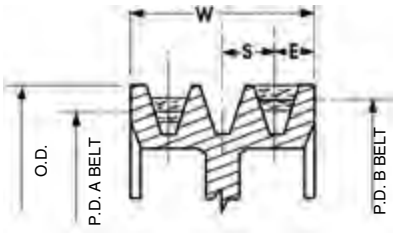
1 = SOLID



2 = WEB



3 = ARM/SPOKE



W = S (N-1) + 2E
N = No. of Grooves

Drawing shows position of "A" and "B" belts in groove.

Combination Groove Dimensions

Belt Section	E	S	OD
"AB"	½	¾	P.D. "B" +.35

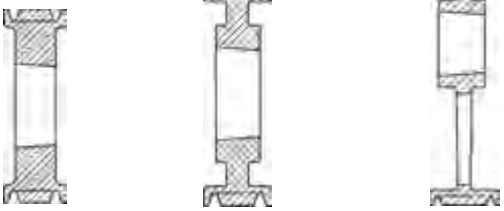
Taper Bushed Sheaves — A-B

3 Groove F = 2½											4 Groove F = 3¼							
Part Number	Diameters A Belts	Diameters B Belts	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
3 B 34 TB	3.0	3.4	3.75	A-1	1210	1¼	1½	1	0	3.0	4 B 34 TB	A-1	1210	1¼	2¼	1	0	3.0
3 B 36 TB	3.2	3.6	3.95	A-1	1210	1¼	1½	1	0	3.5	4 B 36 TB	A-1	1210	1¼	2¼	1	0	3.5
3 B 38 TB	3.4	3.8	4.15	A-1	1610	1⅜	1½	1	0	4.0	4 B 38 TB	A-1	1610	1⅜	2¼	1	0	4.0
3 B 40 TB	3.6	4.0	4.35	A-1	1610	1⅜	1½	1	0	5.0	4 B 40 TB	A-1	1610	1⅜	2¼	1	0	5.0
3 B 42 TB	3.8	4.2	4.55	A-1	1610	1⅜	1½	1	0	6.0	4 B 42 TB	A-1	1610	1⅜	2¼	1	0	5.5
3 B 44 TB	4.0	4.4	4.75	A-1	1610	1⅜	1½	1	0	6.5	4 B 44 TB	A-1	1610	1⅜	2¼	1	0	6.0
3 B 46 TB	4.2	4.6	4.95	A-1	1610	1⅜	1½	1	0	7.0	4 B 46 TB	A-1	1610	1⅜	2¼	1	0	7.0
3 B 48 TB	4.4	4.8	5.15	A-1	1610	1⅜	1½	1	0	8.0	4 B 48 TB	A-1	1610	1⅜	2¼	1	0	8.0
3 B 50 TB	4.6	5.0	5.35	A-1	1610	1⅜	1½	1	0	8.5	4 B 50 TB	A-1	2517	2½	1½	1¾	0	8.5
3 B 52 TB	4.8	5.2	5.55	A-1	1610	1⅜	1½	1	0	9.0	4 B 52 TB	A-1	2517	2½	1½	1¾	0	9.0
3 B 54 TB	5.0	5.4	5.75	A-1	2517	2½	1½	1¾	0	9.5	4 B 54 TB	A-1	2517	2½	1½	1¾	0	9.5
3 B 56 TB	5.2	5.6	5.95	A-1	2517	2½	1½	1¾	0	10.0	4 B 56 TB	A-1	2517	2½	1½	1¾	0	10.0
3 B 58 TB	5.4	5.8	6.15	A-1	2517	2½	¾	1¾	0	10.5	4 B 58 TB	A-1	2517	2½	1½	1¾	0	12.0
3 B 60 TB	5.6	6.0	6.35	A-1	2517	2½	¾	1¾	0	11.0	4 B 60 TB	A-1	2517	2½	1½	1¾	0	12.5
3 B 62 TB	5.8	6.2	6.55	A-1	2517	2½	¾	1¾	0	11.5	4 B 62 TB	A-1	2517	2½	1½	1¾	0	13.0
3 B 64 TB	6.0	6.4	6.75	A-1	2517	2½	¾	1¾	0	12.0	4 B 64 TB	A-1	2517	2½	1½	1¾	0	14.0
3 B 66 TB	6.2	6.6	6.95	A-1	2517	2½	¾	1¾	0	12.3	4 B 66 TB	A-1	2517	2½	1½	1¾	0	15.0
3 B 68 TB	6.4	6.8	7.15	A-1	2517	2½	¾	1¾	0	12.8	4 B 68 TB	A-1	2517	2½	1½	1¾	0	16.0
3 B 74 TB	7.0	7.4	7.75	A-1	2517	2½	¾	1¾	0	16.0	4 B 74 TB	A-1	2517	2½	1½	1¾	0	16.0
3 B 80 TB	8.0	8.4	8.35	A-1	2517	2½	0	1¾	¾	19.0	4 B 70 TB	A-1	2517	2½	0	1¾	1½	20.0
3 B 86 TB	8.2	8.6	8.95	A-2	2517	2½	¾	1¾	0	19.0	4 B 80 TB	A-1	2517	2½	0	1¾	1½	21.0
3 B 94 TB	9.0	9.4	9.75	A-2	2517	2½	¾	1¾	0	21.0	4 B 86 TB	A-2	2517	2½	1½	1¾	0	21.0
3 B 110 TB	10.6	11.0	11.35	A-2	2517	2½	¾	1¾	0	24.0	4 B 94 TB	A-2	2517	2½	1½	1¾	0	23.0
3 B 124 TB	12.0	12.4	12.75	A-3	2517	2½	0	1¾	¾	28.0	4 B 110 TB	A-2	2517	2½	1½	1¾	0	28.0
3 B 136 TB	13.6	14.0	13.95	A-3	2517	2½	0	1¾	¾	25.0	4 B 124 TB	A-3	2517	2½	⅜	1¾	1⅛	32.8
3 B 154 TB	15.0	15.4	15.75	A-3	2517	2½	0	1¾	¾	30.0	4 B 136 TB	A-3	2517	2½	⅜	1¾	1⅛	34.0
3 B 160 TB	16.0	16.4	16.35	A-3	2517	2½	0	1¾	¾	32.0	4 B 154 TB	A-3	2517	2½	⅜	1¾	1⅛	42.0
3 B 184 TB	18.0	18.4	18.75	A-3	2517	2½	0	1¾	¾	44.0	4 B 160 TB	A-3	2517	2½	⅜	1¾	1⅛	45.1
3 B 200 TB	19.6	20.0	20.35	A-3	3020	3	0	2	½	58.0	4 B 184 TB	A-3	2517	2½	½	1¾	1	53.0
3 B 250 TB	24.6	25.0	25.35	A-3	3020	3	0	2	½	74.0	4 B 200 TB	A-3	3020	3	½	2	¾	63.0
3 B 300 TB	29.6	30.0	30.35	A-3	3020	3	0	2	½	84.0	4 B 250 TB	A-3	3030	3	0	3	1¼	80.0
3 B 380 TB	37.6	38.0	38.35	B-3	3020	3	0	3	½	135.0	4 B 300 TB	A-3	3030	3	0	3	1¼	100.0
											4 B 380 TB	A-3	3030	3	0	3	1¼	142.0

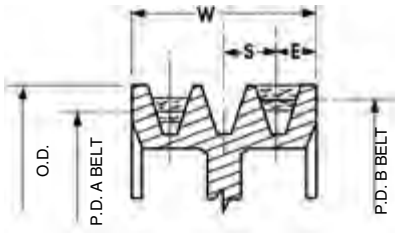
Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

Martin

Combination Groove Conventional Taper Bushed Stock Sheaves A-B



1 = SOLID 2 = WEB 3 = ARM/SPOKE



W = S (N-1) + 2E
N = No. of Grooves

Drawing shows position of "A" and "B" belts in groove.

Combination Groove Dimensions

Belt Section	E	S	OD
"AB"	½	¾	P.D. "B" +.35

Taper Bushed Sheaves — A-B

5 Groove F = 4											6 Groove F = 4¾							
Part Number	Diameters A Belts	Diameters B Belts	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
5 B 34 TB	3.0	3.4	3.75	A-1	1210	1¼	2½	1½	0	5.0								
5 B 36 TB	3.2	3.6	3.95	A-1	1210	1¼	2½	1½	0	5.5								
5 B 38 TB	3.4	3.8	4.15	A-1	1215	1⅝	⅞	1½	1⅝	6.0								
5 B 40 TB	3.6	4.0	4.35	A-1	1215	1⅝	⅞	1½	1⅝	6.5								
5 B 42 TB	3.8	4.2	4.55	A-1	1615	1⅝	2½	1½	0	7.0	6 B 42 TB	A-1	1615	1⅝	3¼	1½	0	8.0
5 B 44 TB	4.0	4.4	4.75	A-1	1615	1⅝	2½	1½	0	8.0	6 B 44 TB	A-1	1615	1⅝	3¼	1½	0	9.0
5 B 46 TB	4.2	4.6	4.95	A-1	1615	1⅝	2½	1½	0	9.0	6 B 46 TB	A-1	1615	1⅝	3¼	1½	0	10.0
5 B 48 TB	4.8	5.2	5.15	A-1	1615	1⅝	⅞	1½	1⅝	9.4	6 B 48 TB	A-1	1615	1⅝	1¼	1½	2	11.0
5 B 50 TB	4.6	5.0	5.35	A-1	1615	1⅝	⅞	1½	0	10.5	6 B 50 TB	A-1	1615	1⅝	1¼	1½	2	11.9
5 B 52 TB	4.8	5.2	5.55	A-1	1615	1⅝	⅞	1½	0	11.3	6 B 52 TB	A-1	1615	1⅝	1¼	1½	2	12.8
5 B 54 TB	5.0	5.4	5.75	A-1	2517	2½	2¼	1¾	0	11.5	6 B 54 TB	A-1	2517	1⅝	1¼	1½	2	13.7
5 B 56 TB	5.2	5.6	5.95	A-1	2517	2½	2¼	1¾	0	12.0	6 B 56 TB	A-1	2517	1⅝	1¼	1½	2	14.6
5 B 58 TB	5.8	6.2	6.15	A-1	2517	2½	13⁄16	1¾	1 7⁄16	13.0	6 B 58 TB	A-1	2517	2½	1⅛	1¾	1⅞	14.0
5 B 60 TB	5.6	6.0	6.35	A-1	2517	2½	2¼	1¾	0	14.0	6 B 60 TB	A-1	2517	2½	3	1¾	0	16.0
5 B 62 TB	6.2	6.6	6.55	A-1	2517	2½	13⁄16	1¾	1 7⁄16	14.0	6 B 62 TB	A-1	2517	2½	1⅛	1¾	1⅞	16.0
5 B 64 TB	6.0	6.4	6.75	A-1	2517	2½	2¼	1¾	0	16.0	6 B 64 TB	A-1	2517	2½	3	1¾	0	19.5
5 B 66 TB	6.6	7.0	6.95	A-1	2517	2½	13⁄16	1¾	1 7⁄16	16.0	6 B 66 TB	A-1	2517	2½	1⅛	1¾	1⅞	20.0
5 B 68 TB	6.4	6.8	7.15	A-1	2517	2½	2¼	1¾	0	18.0	6 B 68 TB	A-1	2517	2½	3	1¾	0	21.0
5 B 70 TB	7.0	7.4	7.35	A-1	2517	2½	¾	1¾	1½	18.0	6 B 70 TB	A-1	2517	2½	1½	1¾	1½	21.0
5 B 74 TB	7.0	7.4	7.75	A-1	2517	2½	2¼	1¾	0	22.0	6 B 74 TB	A-1	2517	2½	3	1¾	0	25.0
5 B 80 TB	8.0	8.4	8.35	A-1	2517	2½	½	1¾	1¾	23.0	6 B 80 TB	A-1	2517	2½	1½	1¾	1½	26.0
5 B 86 TB	8.2	8.6	8.95	A-2	2517	2½	2¼	1¾	0	24.0	6 B 86 TB	A-2	2517	2½	3	1¾	0	27.0
5 B 94 TB	9.0	9.4	9.75	A-2	2517	2½	2¼	1¾	0	26.0	6 B 94 TB	A-2	2517	2½	3	1¾	0	28.0
5 B 110 TB	10.6	11.0	11.35	A-2	2517	2½	2¼	1¾	0	35.0	6 B 110 TB	A-2	2517	2½	3	1¾	0	34.0
5 B 124 TB	12.0	12.4	12.75	A-3	2517	2½	¾	1¾	1½	40.0	6 B 124 TB	A-3	2517	2½	1⅛	1¾	1⅞	43.0
5 B 136 TB	13.6	14.0	13.95	A-3	2517	2½	1	1¾	1¼	38.0	6 B 136 TB	A-3	2517	2½	1½	1¾	1½	42.0
5 B 154 TB	15.0	15.4	15.75	A-3	2517	2½	¾	1¾	1½	47.0	6 B 154 TB	A-3	2517	2½	1½	1¾	1½	52.0
5 B 160 TB	16.0	16.4	16.35	A-3	2517	2½	¾	1¾	1½	67.0	6 B 160 TB	A-3	2517	2½	1½	1¾	1½	53.0
5 B 184 TB	18.0	18.4	18.75	A-3	2517	2½	¾	1¾	1½	52.0	6 B 184 TB	A-3	2517	2½	1½	1¾	1½	62.0
5 B 200 TB	19.6	20.0	20.35	A-3	3030	3	¼	3	¾	75.0	6 B 200 TB	A-3	3030	3	½	3	1¼	85.0
5 B 250 TB	24.6	25.0	25.35	A-3	3030	3	¼	3	¾	81.0	6 B 250 TB	A-3	3030	3	½	3	1¼	100.0
5 B 300 TB	29.6	30.0	30.35	A-3	3030	3	¼	3	¾	109.0	6 B 300 TB	A-3	3030	3	½	3	1¼	137.0
5 B 380 TB	37.6	38.0	38.35	A-3	3030	3	¼	3	¾	158.0	6 B 380 TB	A-3	3030	3	½	3	1¼	168.0

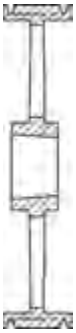
A-B Combination Groove Conventional Taper Bushed Stock Sheaves



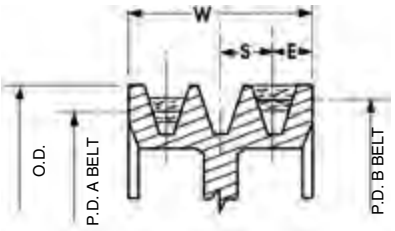
1 = SOLID



2 = WEB



3 = ARM/SPOKE



W = S (N-1) + 2E
N = No. of Grooves

Drawing shows position of "A" and "B" belts in groove.

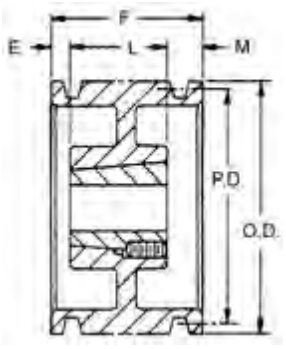
Combination Groove Dimensions

Belt Section	E	S	OD
"AB"	½	¾	P.D. "B" +.35

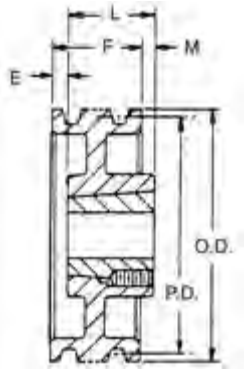
Taper Bushed Sheaves — A-B

8 Groove F = 6¼											10 Groove F = 7¾							
Part Number	Diameters A Belts	Diameters B Belts	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
8 B 54 TB	5.0	5.4	5.75	A-1	2517	2½	1⅞	1¾	2⅝	16.0	10 B 54 TB	A-1	2517	2½	3	1¾	3	18.0
8 B 56 TB	5.2	5.6	5.95	A-1	2517	2½	1⅞	1¾	2⅝	17.0	10 B 56 TB	A-1	2517	2½	3	1¾	3	20.0
8 B 60 TB	5.6	6.0	6.35	A-1	2517	2½	1⅞	1¾	2⅝	19.0	10 B 60 TB	A-1	2517	2½	3	1¾	3	22.0
8 B 64 TB	6.0	6.4	6.75	A-1	2517	2½	1⅞	1¾	2⅝	21.0	10 B 64 TB	A-1	2517	2½	3	1¾	3	25.5
8 B 68 TB	6.4	6.8	7.15	A-1	2517	2½	1⅞	1¾	2⅝	25.0	10 B 68 TB	A-1	2517	2½	3	1¾	3	28.0
8 B 74 TB	7.0	7.4	7.75	A-1	2517	2½	1⅞	1¾	2⅝	29.0	10 B 74 TB	A-1	2517	2½	3	1¾	3	35.0
8 B 86 TB	8.2	8.6	8.95	A-1	3030	3	1	3	2¼	37.0	10 B 86 TB	A-1	3030	3	2	3	2¾	43.0
8 B 94 TB	9.0	9.4	9.95	A-2	3030	3	1	3	2¼	41.0	10 B 94 TB	A-2	3030	3	2	3	2¾	46.0
8 B 110 TB	10.6	11.0	11.35	A-2	3030	3	1	3	2¼	51.0	10 B 110 TB	A-2	3030	3	2	3	2¾	52.0
8 B 124 TB	12.0	12.4	12.75	A-3	3030	3	1	3	2¼	56.0								
8 B 154 TB	15.0	15.4	15.75	A-3	3030	3	1	3	2¼	69.0								
8 B 184 TB	18.0	18.4	18.75	A-3	3030	3	1	3	2¼	99.0								
8 B 200 TB	19.6	20.0	20.35	A-3	3030	3	1	3	2¼	115.0								
8 B 250 TB	24.6	25.0	25.35	A-3	3535	3½	¾	3½	2	145.0								
8 B 300 TB	29.6	30.0	30.35	A-3	3535	3½	¾	3½	2	170.0								
8 B 380 TB	37.6	38.0	38.35	A-3	4040	4	1⅛	4	1⅛	260.0								

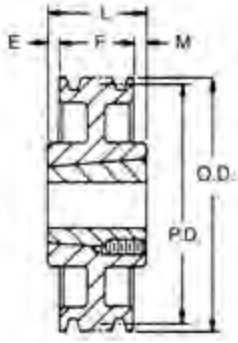
Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.



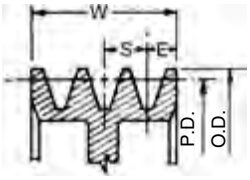
TYPE A



TYPE B



TYPE C



Groove Dimensions

Belt Section	E	S	O.D.
"C"	1 1/16	1	P.D. + .40

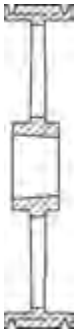
W = S(N-1) + 2E
N = No. of Grooves



1 = SOLID



2 = WEB



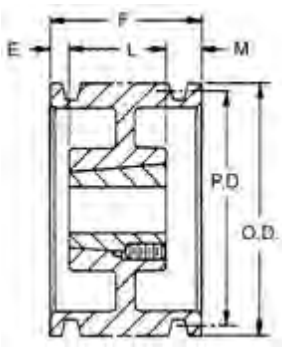
3 = ARM/SPOKE

Taper Bushed Sheaves — C

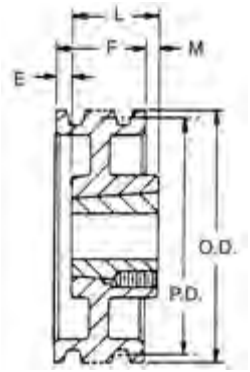
2 Groove F = 2⅜										3 Groove F = 3⅜							
Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
2 C 70 TB	7.00	7.40	A-1	2517	2½	⅝	1¾	0	15.0	3 C 70 TB	A-1	2517	2½	¼	1¾	1⅜	18.0
2 C 75 TB	7.50	7.90	A-1	2517	2½	⅝	1¾	0	17.0	3 C 75 TB	A-1	2517	2½	¼	1¾	1⅜	20.0
2 C 80 TB	8.00	8.40	A-1	2517	2½	⅝	1¾	0	20.0	3 C 80 TB	A-1	2517	2½	¼	1¾	1⅜	22.0
2 C 85 TB	8.50	8.90	A-2	2517	2½	⅝	1¾	0	22.0	3 C 85 TB	A-2	2517	2½	¼	1¾	1⅜	23.0
2 C 90 TB	9.00	9.40	A-2	2517	2½	⅝	1¾	0	23.0	3 C 90 TB	A-2	2517	2½	¼	1¾	1⅜	24.0
2 C 95 TB	9.50	9.90	A-2	2517	2½	⅝	1¾	0	24.0	3 C 95 TB	A-2	2517	2½	¼	1¾	1⅜	27.0
2 C 100 TB	10.00	10.40	A-2	2517	2½	⅝	1¾	0	25.0	3 C 100 TB	A-2	2517	2½	¼	1¾	1⅜	29.0
2 C 105 TB	10.50	10.90	A-2	2517	2½	⅝	1¾	0	26.0	3 C 105 TB	A-2	2517	2½	¼	1¾	1⅜	32.0
2 C 110 TB	11.00	11.40	A-2	2517	2½	⅝	1¾	0	27.0	3 C 110 TB	A-2	2517	2½	¼	1¾	1⅜	35.0
2 C 120 TB	12.00	12.40	A-2	2517	2½	⅝	1¾	0	33.0	3 C 120 TB	A-2	3020	3	0	2	1⅜	44.0
2 C 130 TB	13.00	13.40	A-3	2517	2½	⅝	1¾	0	35.0	3 C 130 TB	A-3	3020	3	0	2	1⅜	49.0
2 C 140 TB	14.00	14.40	A-3	2517	2½	⅝	1¾	0	36.0	3 C 140 TB	A-3	3020	3	0	2	1⅜	50.0
2 C 160 TB	16.00	16.40	A-3	2517	2½	⅝	1¾	0	42.0	3 C 160 TB	A-3	3020	3	0	2	1⅜	64.0
2 C 180 TB	18.00	18.40	A-3	3020	3	0	2	⅜	42.0	3 C 180 TB	A-3	3030	3	0	3	⅜	64.0
2 C 200 TB	20.00	20.40	A-3	3020	3	0	2	⅜	45.0	3 C 200 TB	A-3	3030	3	0	3	⅜	78.0
2 C 240 TB	24.00	24.40	A-3	3020	3	0	2	⅜	72.0	3 C 240 TB	A-3	3030	3	0	3	⅜	96.0
2 C 300 TB	30.00	30.40	C-3	3535	3½	½	3½	⅝	85.0	3 C 300 TB	B-3	3535	3½	0	3½	⅛	125.0
	36.00	36.40								3 C 360 TB	B-3	3535	3½	0	3½	⅛	175.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

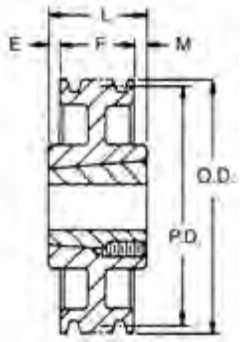
C Conventional Stock Taper Bushed Sheaves



TYPE A



TYPE B



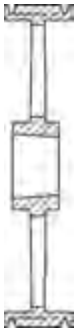
TYPE C



1 = SOLID



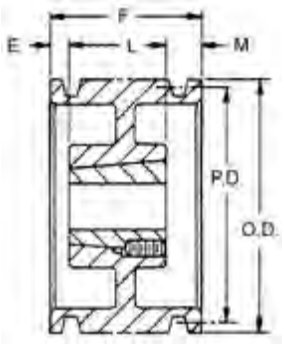
2 = WEB



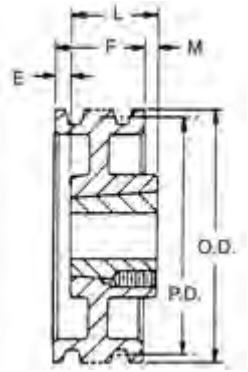
3 = ARM/SPOKE

Taper Bushed Sheaves — C

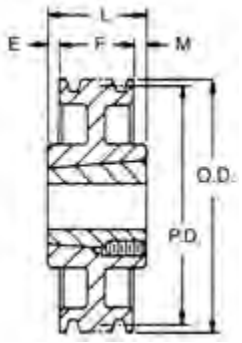
4 Groove F = 4⅜										5 Groove F = 5⅜							
Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
4 C 70 TB	7.00	7.40	A-1	2517	2½	½	1¾	2⅛	20.0	5 C 70 TB	A-1	2517	2½	1½	1¾	2⅛	23.0
4 C 75 TB	7.50	7.90	A-1	2517	2½	½	1¾	2⅛	23.0	5 C 75 TB	A-1	2517	2½	1½	1¾	2⅛	26.0
4 C 80 TB	8.00	8.40	A-1	2517	2½	½	1¾	2⅛	25.0	5 C 80 TB	A-1	2517	2½	1½	1¾	2⅛	30.0
4 C 85 TB	8.50	8.90	A-2	2517	2½	½	1¾	2⅛	26.0	5 C 85 TB	A-1	2517	2½	1½	1¾	2⅛	34.0
4 C 90 TB	9.00	9.40	A-2	2517	2½	½	1¾	2⅛	27.0	5 C 90 TB	A-2	2517	2½	1½	1¾	2⅛	35.0
4 C 95 TB	9.50	9.90	A-2	2517	2½	½	1¾	2⅛	36.0	5 C 95 TB	A-2	2517	2½	1½	1¾	2⅛	36.0
4 C 100 TB	10.00	10.40	A-2	2517	2½	½	1¾	2⅛	39.0	5 C 100 TB	A-2	2517	2½	1½	1¾	2⅛	39.0
4 C 105 TB	10.50	10.90	A-2	2517	2½	½	1¾	2⅛	42.0	5 C 105 TB	A-2	2517	2½	1½	1¾	2⅛	42.0
4 C 110 TB	11.00	11.40	A-2	2517	2½	½	1¾	2⅛	45.0	5 C 110 TB	A-2	2517	2½	1½	1¾	2⅛	43.0
4 C 120 TB	12.00	12.40	A-2	3030	3	0	3	1⅞	47.0	5 C 120 TB	A-2	3030	3	½	3	1⅞	58.0
4 C 130 TB	13.00	13.40	A-3	3030	3	0	3	1⅞	51.0	5 C 130 TB	A-3	3030	3	½	3	1⅞	63.0
4 C 140 TB	14.00	14.40	A-3	3030	3	0	3	1⅞	54.0	5 C 140 TB	A-3	3030	3	½	3	1⅞	65.0
4 C 160 TB	16.00	16.40	A-3	3030	3	0	3	1⅞	71.0	5 C 160 TB	A-3	3030	3	½	3	1⅞	70.0
4 C 180 TB	18.00	18.40	A-3	3030	3	0	3	1⅞	81.0	5 C 180 TB	A-3	3030	3	½	3	1⅞	83.0
4 C 200 TB	20.00	20.40	A-3	3030	3	0	3	1⅞	84.0	5 C 200 TB	A-3	3535	3½	0	3½	1⅞	110.0
4 C 240 TB	24.00	24.40	A-3	3030	3	0	3	1⅞	116.0	5 C 240 TB	A-3	3535	3½	0	3½	1⅞	138.0
4 C 300 TB	30.00	30.40	A-3	3535	3½	0	3½	⅞	164.0	5 C 300 TB	A-3	3535	3½	0	3½	1⅞	176.0
4 C 360 TB	36.00	36.40	A-3	3535	3½	0	3½	⅞	192.0	5 C 360 TB	A-3	4040	4	¼	4	1⅛	244.0
4 C 440 TB	44.00	44.40	A-3	4040	4	0	4	⅜	282.0	5 C 440 TB	A-3	4040	4	¼	4	1⅛	288.0



TYPE A



TYPE B



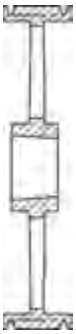
TYPE C



1 = SOLID



2 = WEB

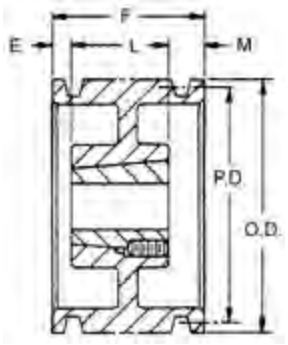


3 = ARM/SPOKE

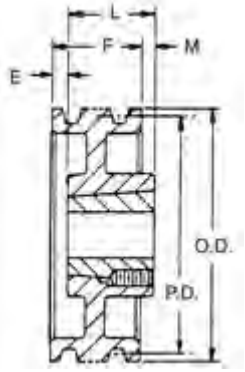
Taper Bushed Sheaves — C

6 Groove F = 6⅜										8 Groove F = 8⅜							
Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
6 C 70 TB	7.00	7.40	A-1	3030	3	1	3	2⅜	30.0								
6 C 75 TB	7.50	7.90	A-1	3030	3	1	3	2⅜	31.0								
6 C 80 TB	8.00	8.40	A-1	3030	3	1	3	2⅜	35.0	8 C 80 TB	A-1	3030	3	2	3	3⅜	45.0
6 C 85 TB	8.50	8.90	A-1	3030	3	1	3	2⅜	40.0	8 C 85 TB	A-1	3030	3	2	3	3⅜	47.0
6 C 90 TB	9.00	9.40	A-1	3030	3	1	3	2⅜	47.0	8 C 90 TB	A-1	3535	3½	1½	3½	3⅜	64.0
6 C 95 TB	9.50	9.90	A-1	3030	3	1	3	2⅜	53.0	8 C 95 TB	A-1	3535	3½	1½	3½	3⅜	67.0
6 C 100 TB	10.00	10.40	A-1	3030	3	1	3	2⅜	57.0	8 C 100 TB	A-1	3535	3½	1½	3½	3⅜	70.0
6 C 105 TB	10.50	10.90	A-2	3030	3	1	3	2⅜	58.0	8 C 105 TB	A-1	3535	3½	1½	3½	3⅜	84.0
6 C 110 TB	11.00	11.40	A-2	3030	3	1	3	2⅜	66.0	8 C 110 TB	A-1	3535	3½	1½	3½	3⅜	87.0
6 C 120 TB	12.00	12.40	A-2	3030	3	1	3	2⅜	70.0	8 C 120 TB	A-2	3535	3½	1½	3½	3⅜	90.0
6 C 130 TB	13.00	13.40	A-3	3030	3	1	3	2⅜	75.0	8 C 130 TB	A-2	3535	3½	1½	3½	3⅜	97.0
6 C 140 TB	14.00	14.40	A-3	3535	3½	½	3½	2⅜	80.0	8 C 140 TB	A-2	3535	3½	1½	3½	3⅜	105.0
6 C 160 TB	16.00	16.40	A-3	3535	3½	½	3½	2⅜	87.0	8 C 160 TB	A-3	3535	3½	1½	3½	3⅜	115.0
6 C 180 TB	18.00	18.40	A-3	3535	3½	½	3½	2⅜	102.0	8 C 180 TB	A-3	4040	4	1½	4	2⅞	137.0
6 C 200 TB	20.00	20.40	A-3	3535	3½	½	3½	2⅜	126.0	8 C 200 TB	A-3	4040	4	1½	4	2⅞	180.0
6 C 240 TB	24.00	24.40	A-3	3535	3½	½	3½	2⅜	150.0	8 C 240 TB	A-3	4040	4	1½	4	2⅞	205.0
6 C 300 TB	30.00	30.40	A-3	4040	4	1	4	1⅜	226.0	8 C 300 TB	A-3	4040	4	1½	4	2⅞	263.0
6 C 360 TB	36.00	36.40	A-3	4040	4	1	4	1⅜	270.0	8 C 360 TB	A-3	4545	4½	1¼	4½	2⅝	343.0
6 C 440 TB	44.00	44.40	A-3	4040	4	1	4	1⅜	320.0	8 C 440 TB	A-3	4545	4½	1¼	4½	2⅝	432.0

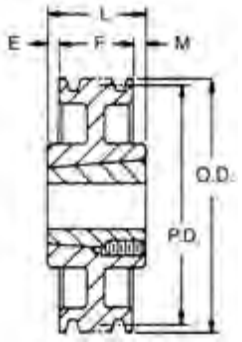
C Conventional Stock Taper Bushed Sheaves



TYPE A



TYPE B



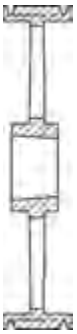
TYPE C



1 = SOLID



2 = WEB



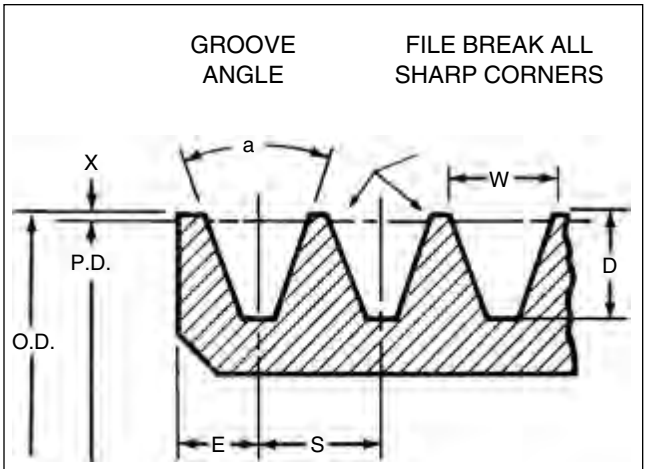
3 = ARM/SPOKE

Taper Bushed Sheaves — C

10 Groove F = 10⅜										12 Groove F = 12⅜							
Part Number	PD C Belt	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
10 C 90 TB	9.00	9.40	A-1	4545	4½	1½	4½	4⅜	57.0	12 C 90 TB	A-1	4040	4	3½	4	4⅞	65.0
10 C 95 TB	9.50	9.90	A-1	4545	4½	1½	4½	4⅜	66.0	12 C 95 TB	A-1	4040	4	3½	4	4⅞	75.0
10 C 100 TB	10.00	10.40	A-1	4545	4½	1½	4½	4⅜	77.0	12 C 100 TB	A-1	4040	4	3½	4	4⅞	85.0
10 C 105 TB	10.50	10.90	A-1	4545	4½	1½	4½	4⅜	87.0	12 C 105 TB	A-1	4040	4	3½	4	4⅞	95.0
10 C 110 TB	11.00	11.40	A-1	4545	4½	1½	4½	4⅜	98.0	12 C 110 TB	A-1	4040	4	3½	4	4⅞	104.0
10 C 120 TB	12.00	12.40	A-1	4545	4½	1½	4½	4⅜	121.0	12 C 120 TB	A-1	4040	4	3½	4	4⅞	126.0
10 C 130 TB	13.00	13.40	A-1	4545	4½	2	4½	3⅞	146.0	12 C 130 TB	A-1	4545	4½	3	4½	4⅞	156.0
10 C 140 TB	14.00	14.40	A-2	4545	4½	2	4½	3⅞	170.1	12 C 140 TB	A-1	4545	4½	3	4½	4⅞	184.0
10 C 160 TB	16.00	16.40	A-2	4545	4½	2	4½	3⅞	173.4								
10 C 180 TB	18.00	18.40	A-2	4545	4½	2	4½	3⅞	180.1								
10 C 200 TB	20.00	20.40	A-3	4545	4½	2	4½	3⅞	201.0								
10 C 240 TB	24.00	24.40	A-3	4545	4½	2	4½	3⅞	243.0								
10 C 300 TB	30.00	30.40	A-3	4545	4½	2	4½	3⅞	320.0								
10 C 360 TB	36.00	36.40	A-3	4545	4½	2	4½	3⅞	464.0								
10 C 440 TB	44.00	44.40	A-3	4545	4½	2	4½	3⅞	508.0								

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

Hi-Cap Wedge
Groove Dimensions and Tolerances



Face Width of Stock and Standard Sheaves

Face Width = S(N-1) + 2E
Where:
N = Number of Grooves

HI-CAP WEDGE SHEAVES TOLERANCES

Outside Diameter	
Under 12.00"	± .005"
12.00" thru 17.99"	+ .010"
18.00" thru 36.00"	± .015"
Over 36.00"	± .020"
Outside Diameter Eccentricity	
Under 9.00"	.008"
9.00" thru 13.99"	.010"
14.00" thru 36.00"	.012"
Over 36.00"	.020"
Side Wobble And Runout	
20.00" O.D. & Under	not to exceed .001" per inch of diameter
Over 20.00" O.D.	.010" plus .0005" per inch of O.D.

Standard Sheaves

Belt	Minimum Recommended Outside Diameter	Outside Effective Diameter	a Groove Angle	Groove Dimensions				
				W	D	X	S	E
3V	2.65	Under 3.5	36°	.350	.350	.025	.407	.344
		3.5 - 6	38°	.350	.350	.025	.407	.344
		6.01-12	40°	.350	.350	.025	.407	.344
		Over 12	42°	.350	.350	.025	.407	.344
5V	7.1	Under 10	38°	.600	.600	.050	.688	.500
		10 - 16	40°	.600	.600	.050	.688	.500
		Over16	42°	.600	.600	.050	.688	.500
8V	12.5	Under 16	38°	1	1	.100	1.125	.750
		16-22.4	40°	1	1	.100	1.125	.750
		Over 22.4	42°	1	1	.100	1.125	.750

Dimensions in inches

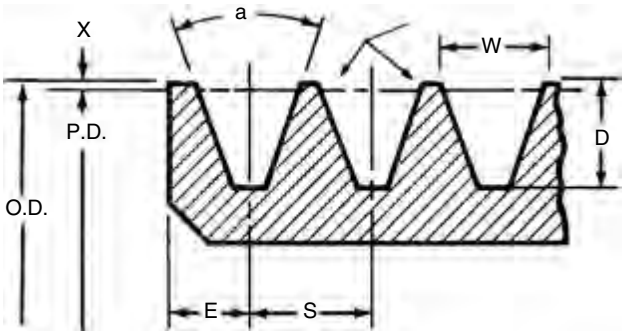
Conventional Groove Dimensions and Tolerances

CONVENTIONAL SHEAVE TOLERANCES

Outside Diameter	
Under 12.00"	± .020"
12.00" thru 23.99"	± .040"
24.00" thru 57.99"	± .060"
58.00" thru 71.99"	± .120"
Over 72.00"	± .250"
Outside Diameter Eccentricity	
Under 10.00" P.D.	.010"
10.01" thru 60.00" P.D.	.010" plus .0005" per inch of P.D.
Over 60.00" P.D.	Add .001" for each add'l inch of P.D.
Side Wobble And Runout	
20.00" P.D. & Under	not to exceed .001" per inch of P.D.
20.00" thru 60.00" P.D.	Add .0005" for each add'l inch of P.D. up to 60.00"
Over 60.00" P.D.	Add .001" for each add'l inch of P.D. above 60.00"

GROOVE ANGLE

FILE BREAK ALL SHARP CORNERS



Face Width of Stock and Standard Sheaves

Face Width = S(N-1) + 2E
Where:
N = Number of Grooves

Standard Sheaves

Belt	Minimum Recommended Pitch Diameter	P.D. Range	a Groove Angle ± ¼°	Groove Dimensions W		D ± .031	X	S* ± .031	E	
A	3.0	2.6 - 5.4 Over 5.4	34° 38°	.494 .504	± .005	.490	.125	.625	.375	+ .070 – .000
B	5.4	4.6 - 7.0 Over 7.0	34° 38°	.637 .650	± .005	.580	.175	.750	.500	+ .150 – .000
A - B	A 3.0 B 5.4	3.4 - 6.8 Over 6.8	34° 38°	.612 .625	± .005	.625	.175	.750	.500	+ .150 – .000
C	9.0	7.0 - 7.99 8.0 - 12.0 Over 12.0	34° 36° 38°	.879 .887 .895	± .007	.780	.200	1	.688	+ .150 – .000
D	13.0	12.0 - 12.99 13.0 - 17.0 Over 17.0	34° 36° 38°	1.259 1.271 1.283	± .007	1.050	.300	1.438	.875	+ .250 – .000
E	21.0	18.0 - 24.0 Over 24.0	36° 38°	1.527 1.542	± .010	1.300	.400	1.75	1.123	+ .250 – .000

Deep Groove Sheaves

Belt	Minimum Recommended Pitch Diameter	P.D. Range	a Groove Angle ± ¼°	Groove Dimensions W		D ± .031	X	S* ± .031	E	
A	3.0	2.6 - 5.4 Over 5.4	34° 38°	.589 .611	± .005	.645	.280	.750	.438	+ .070 – .000
B	5.4	4.6 - 7.0 Over 7.0	34° 38°	.747 .774	± .005	.760	.355	.875	.563	+ .150 – .000
C	9.0	7.0 - 7.99 8.0 - 12.0 Over 12.0	34° 36° 38°	1.066 1.085 1.105	± .007	1.085	.505	1.25	.813	+ .150 – .000
D	13.0	12.0 - 12.99 13.0 - 17.0 Over 17.0	34° 36° 38°	1.513 1.541 1.569	± .007	1.465	.715	1.750	1.063	+ .250 – .000
E	21.0	18.0 - 24.0 Over 24.0	36° 38°	1.816 1.849	± .010	1.745	.845	2.063	1.313	+ .250 – .000

Dimensions in inches

*Summation of the deviations from "S" for all grooves in any one sheave shall not exceed ± .063. Available on request, deep groove sheaves are intended for quarter turn drives and for long center vertical shaft drives. They may also be necessary for such applications as car shakers, vibrating screens and certain types of crushers where oscillation in center distance may occur.

Stock Drive Selection

To select the best V-Belt Drive for an application, utilizing stock sheaves, simply follow the step by step instructions below:

BEFORE SELECTING A DRIVE, YOU NEED TO KNOW THESE FACTS:

1. The horsepower requirement of the drive.
2. The RPM of the driver.
3. The RPM of the driven machine.
4. The approximate center distance for the drive.
5. Shaft size of both units.
6. Average hours of operation per day.

TABLE 1 — SERVICE FACTORS

THE CORRECT SERVICE FACTOR IS DETERMINED BY:

1. The extent and frequency of peak loads.

2. The number of operating hours per year, broken down into average hours per day of continuous service.

3. The proper service category, (intermittent, normal or continuous). Select the one that most closely approximates your application conditions.

INTERMITTENT SERVICE — SERVICE FACTOR 1.0 TO 1.5
- **a.** Light Duty — Not more than 6 hours per day.
- **b.** Never exceeding rated load.

NORMAL SERVICE — SERVICE FACTOR 1.1 TO 1.6
- **a.** Daily service 6 to 16 hours per day.
- **b.** Where occasional starting or peak load does not exceed 200% of the full load.

CONTINUOUS SERVICE — SERVICE FACTOR 1.2 TO 1.8
- **a.** Continuous service 16 to 24 hours per day.
- **b.** Where starting or peak load is in excess of 200% of the full load or where starting or peak loads and overloads occur frequently.

TYPICAL SERVICE FACTORS

Driven machine types noted below are representative samples only. Select a category most closely approximating your application from those listed below.

IF IDLERS ARE USED, ADD THE FOLLOWING TO THE SERVICE FACTOR:

Idler on slack side (inside)	None
Idler on slack side (outside)	0.1
Idler on tight side (inside)	0.1
Idler on tight side (outside)	0.2

DRIVEN MACHINE TYPES	DRIVER TYPES					
	ELECTRIC MOTORS: AC Normal Torque Squirrel Cage and Synchronous; AC Split Phase; DC Shunt Wound; **Internal Combustion Engines**			**ELECTRIC MOTORS:** AC Hi-Torque; AC Hi-Slip; AC Repulsion-Induction; AC Single Phase Series Wound; AC Slip Ring; DC Compound Wound		
	INTERMITTENT SERVICE	**NORMAL SERVICE**	**CONTINUOUS SERVICE**	**INTERMITTENT SERVICE**	**NORMAL SERVICE**	**CONTINUOUS SERVICE**
Agitators for Liquids Blowers and Exhausters Centrifugal Pumps and Compressors Fans up to 10 HP Light Duty Conveyors	1.0	1.1	1.2	1.1	1.2	1.3
Belt Conveyors For Sand, Grain, etc. Dough Mixers Fans Over 10 HP Generators Line Shafts Laundry Machinery Machine Tools Punches-Presses-Shears Printing Machinery Positive Displacement Rotary Pumps Revolving and Vibrating Screens	1.1	1.2	1.3	1.2	1.3	1.4
Brick Machinery Bucket Elevators Exciters Piston Compressors Conveyors (Drag-Pan-Screw) Hammer Mills Paper Mill Beaters Piston Pumps Positive Displacement Blowers Pulverizers Saw Mill and Woodworking Machinery Textile Machinery	1.2	1.3	1.4	1.4	1.5	1.6
Crushers (Gyratory-Jaw-Roll) Mills (Ball-Rod-Tube) Hoists Rubber Calenders-Extruders-Mills	1.3	1.4	1.5	1.5	1.6	1.8
Chokable Equipment	2.0	2.0	2.0	2.0	2.0	2.0

FOR A GOOD COMMERCIAL DRIVE SELECTION, USE CONTINUOUS SERVICE FACTOR

Made-To-Order Sheaves

Martin has the capacity to produce a wide range of Made-To-Order Sheaves. These sheaves meet the same quality standards as our stock line of QD and Taper Bushed Sheaves.

Since Made-To-Order Sheaves can be manufactured to meet most customer requirements, the following pages give standard dimensions for Made-To-Order Sheaves. Martin can alter these dimensions such as hub location, length through bore, to meet desired requirements. These sheaves are normally Bored-To-Size and are furnished with standard keyway and two set screws as indicated. However, most Made-To-Order Sheaves can be furnished in QD or Taper Bushed style hubs. Also, Martin can furnish Made-To-Order Sheaves in a split construction. Consult factory with specific requirements.



WIRE ROPE IDLER



FLAT BELT PULLEY



DUPLEX — SHEAVE AND FLAT BELT



POLY-V SHEAVE

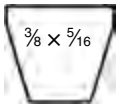


CROWN FACE PULLEY

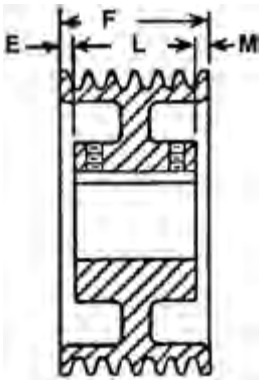


IDLER SHEAVE

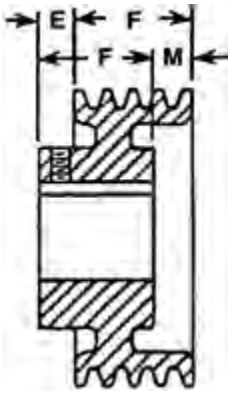
All Martin sheaves and timing pulleys can be manufactured to meet your special requirements: Aluminum, Brass, Ductile, Steel, Stainless Steel. Martin, service and quality drive components you can depend on to get the job done.



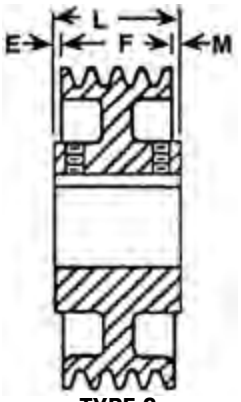
MTO — 3V



TYPE A



TYPE D



TYPE C

O.D. ■ Range	1 — Groove, F = ◆				2 — Groove, F = ❍				3 — Groove, F = 1½			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
2.65-4.9	D	1 5/16	5/8	—	D	1 5/8	5/8	3/32	D	1 5/8	5/8	1/2
5.0-10.9	D	1½	5/8	3/16	C	1¾	5/8	1/32	D	1¾	5/8	3/8
11.0-13.9	C	1¾	5/8	5/16	C	2¼	5/8	17/32	C	2½	5/8	3/8
14.0-16.9	C	1¾	5/8	5/16	C	2¼	5/8	17/32	C	2½	5/8	3/8
17.0-24.9	C	1¾	3/8	3/8	C	2½	5/8	5/8	C	3	¾	¾
25.0-33.5	C	1¾	¼	¼	C	2½	5/8	5/8	C	3¼	7/8	7/8
2.65-4.9	D	1 5/8	5/8	29/32	D	2¼	5/8	11/16	D	2¼	5/8	1 3/32

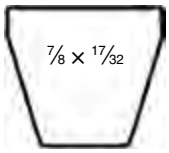
O.D. ■ Range	4 — Groove, F = 1 29/32				5 — Groove, F = 2 5/16				6 — Groove, F = 2 23/32			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
2.65-4.9	D	1 5/8	5/8	29/32	D	2¼	5/8	11/16	D	2¼	5/8	1 3/32
5.0-6.9	D	1¾	5/8	25/32	D	2¼	5/8	11/16	D	2¼	5/8	1 3/32
7.0-10.9	D	2¼	5/8	9/32	D	2¼	5/8	11/16	D	2½	5/8	27/32
11.0-20.9	D	2½	5/8	1/32	C	3	5/8	1/16	D	3	5/8	11/32
21.0-29.9	C	3	35/64	35/64	C	3¼	½	7/16	C	3½	25/64	25/64
30.0-33.5	C	3½	51/64	51/64	C	3½	19/32	19/32	C	4	41/64	41/64

O.D. ■ Range	8 — Groove, F = 3 17/32				10 — Groove, F = 4 11/32				12 — Groove, F = 5 5/32			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
4.0-4.9	D	2¼	5/8	1 29/32	D	2½	5/8	2 15/32	D	3½	5/8	2 5/32
5.0-6.9	D	2½	5/8	1 21/32	D	2½	5/8	2 15/32	D	3½	5/8	2 5/32
7.0-13.9	D	3	5/8	1 5/32	D	3¼	5/8	1 23/32	D	3½	5/8	2 5/32
14.0-16.9	D	3½	5/8	21/32	D	3½	5/8	1 15/32	D	3½	5/8	2 5/32
17.0-20.9	C	4	5/8	5/32	D	4	5/8	31/32	D	4	5/8	1 25/32
21.0-33.5	C	4½	31/64	31/64	C	4½	5/64	5/64	A	4½	21/64	21/64

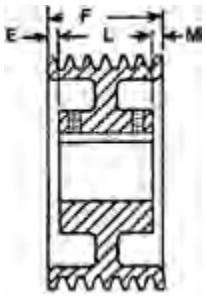
O.D. ■ Range	14 — Groove, F = 5 31/32				16 — Groove, F = 6 23/32				18 — Groove, F = 7 19/32			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
4.0-8.9	D	3	5/8	3 3/32	D	4	5/8	3 13/32	D	4	5/8	4 7/32
9.0-16.9	D	3	5/8	3 3/32	D	4	5/8	3 13/32	D	4	5/8	4 7/32
17.0-20.9	D	4	5/8	2 19/32	D	4½	5/8	2 29/32	D	4½	5/8	2 23/32
21.0-24.9	A	4	63/64	63/64	A	4½	1 9/64	1 9/64	A	4½	1 35/64	1 35/64
25.0-29.9	A	4	63/64	63/64	A	4½	1 9/64	1 9/64	A	4½	1 35/64	1 35/64
30.0-33.5	A	5	31/64	31/64	A	5	57/64	57/64	A	5	1 19/64	1 19/64
2.65-4.9	D	1 5/8	5/8	29/32	D	2¼	5/8	11/16	D	2¼	5/8	1 3/32

■ P.D. = O.D.– .05"
◆ 11/16" for 2.65-10.9 O.D., 13/16" for 11.0-16.9 O.D., 1" for 17.0-24.9 O.D., 1¼" for 25.0-33.5 O.D.
❍ 13/32" for 2.65-16.9 O.D., 1¼" for 17.0-33.5 O.D.

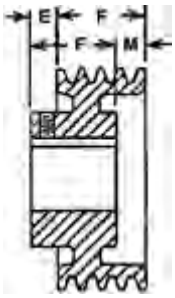
Made-To-Order Sheaves



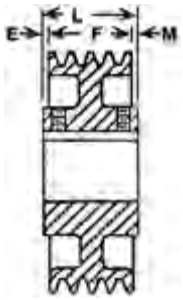
MTO — 5V



TYPE A



TYPE D



TYPE C

O.D. ■ Range	2 — Groove, F = 1 11/16				3 — Groove, F = 2 3/8				4 — Groove, F = 3 1/16			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
7.0-10.9	D	2 1/4	7/8	5/16	D	2 1/2	7/8	3/4	D	3	7/8	15/16
11.0-23.9	D	2 1/4	7/8	5/16	D	3 1/4	7/8	—	D	3 1/2	7/8	7/16
24.0-29.9	C	2 1/2	13/32	13/32	C	3 1/2	9/16	9/16	C	4	15/32	15/32
30.0-44.9	C	3 1/2	29/32	29/32	C	4 1/2	1 1/16	1 1/16	C	5 1/4	1 3/32	1 3/32
45.0-75.0	C	5	1 21/32	1 21/32	C	5 1/4	1 7/16	1 7/16	C	6	1 15/32	1 15/32

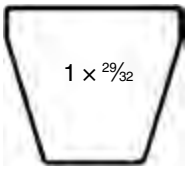
O.D. ■ Range	5 — Groove, F = 3 3/4				6 — Groove, F = 4 7/16				8 — Groove, F = 5 13/16			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
7.0-11.9	D	3 1/4	7/8	1 3/8	D	3 1/2	7/8	1 13/16	D	4	7/8	2 11/16
12.0-23.9	D	4	7/8	5/8	D	4	7/8	1 5/16	D	4 1/2	7/8	2 3/16
24.0-44.9	C	4 1/2	3/8	3/8	C	5 1/4	13/32	13/32	A	5 1/2	5/32	5/32
45.0-52.9	C	5 1/4	3/4	3/4	C	6	25/32	25/32	C	6	3/32	3/32
53.0-75.9	C	6 1/4	1 3/8	1 3/8	C	6 1/2	1 1/32	1 1/32	C	6 1/2	11/32	11/32

O.D. ■ Range	10 — Groove, F = 7 3/16				12 — Groove, F = 8 9/16				14 — Groove, F = 9 15/16			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-23.9	D	4 1/4	7/8	3 13/32	D	5	7/8	4 15/16	D	6	7/8	4 13/16
24.0-36.9	A	4 1/2	1 11/32	1 11/32	A	5 1/2	1 17/32	1 17/32	A	6 1/2	1 23/32	1 23/32
37.0-44.9	A	5 1/2	27/32	27/32	A	6	1 9/32	1 9/32	A	7	1 15/32	1 15/32
45.0-52.9	A	6	19/32	19/32	A	6	1 9/32	1 9/32	A	7 1/2	1 7/32	1 7/32
53.0-75.9	A	7	3/32	3/32	A	7	25/32	25/32	A	8	31/32	31/32

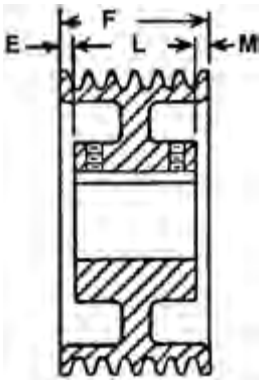
O.D. ■ Range	16 — Groove, F = 11 5/16				18 — Groove, F = 12 11/16				20 — Groove, F = 14 1/16			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-23.9	D	6 1/2	7/8	5 11/16	D	7	7/8	6 3/16	D	8	7/8	6 15/16
24.0-36.9	A	7	2 5/32	1 11/32	A	8	2 11/32	2 11/32	A	8 1/2	2 25/32	2 25/32
37.0-44.9	A	7 1/2	1 29/32	1 29/32	A	8 1/2	2 3/32	2 3/32	A	9	2 17/32	2 17/32
45.0-52.9	A	8	1 21/32	1 21/32	A	9	1 27/32	1 27/32	A	9 1/2	2 9/32	2 9/32
53.0-62.9	A	8 1/2	1 13/32	1 13/32	A	9 1/2	1 19/32	1 19/32	A	10	2 1/32	2 1/32
63.0-75.0	A	9	1 5/32	1 5/32	A	10 1/2	1 3/32	1 3/32	A	12	1 1/32	1 1/32

■ P.D. = O.D. – .10"

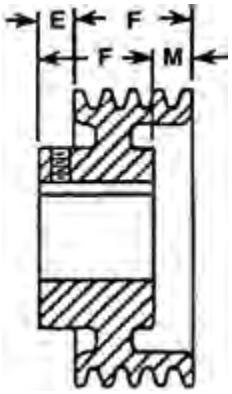
Made-To-Order Sheaves



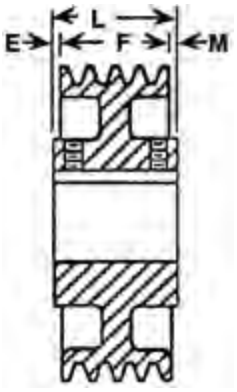
MTO — 8V



TYPE A



TYPE D



TYPE C

O.D. ■ Range	4 — Groove, F = 4⅞				5 — Groove, F = 6				7 — Groove, F = 7⅛			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-26.9	D	5	1⅛	1	D	5½	1⅛	1⅝	D	6	1⅛	2¼
27.0-39.9	D	5½	5/16	5/16	C	6	0	0	A	7	1/16	1/16
40.0-57.9	C	6	3/16	3/16	C	7	½	½	C	7½	3/16	3/16
58.0-69.9	C	7	1 1/16	1 1/16	C	8	0	0	C	8	7/16	7/16
70.0-81.9	C	8	1 3/16	1 3/16	C	8¼	1¼	1¼	C	9	15/16	15/16
82.0-85.0	C	8½	1 3/16	1 3/16	C	9	1½	1½	C	10	1 7/16	1 7/16

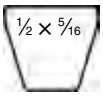
O.D. ■ Range	8 — Groove, F = 9⅞				10 — Groove, F = 11⅝				12 — Groove, F = 13⅞			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-29.9	D	6½	1⅛	4	D	7	1⅛	5¾	D	8	1⅛	7
30.0-39.9	A	7½	15/16	15/16	A	8	1 13/16	1 13/16	A	8½	2 11/16	2 11/16
40.0-57.9	A	8	1 1/16	1 1/16	A	9	1 5/16	1 5/16	A	9½	2 3/16	2 3/16
58.0-69.9	A	9	3/16	3/16	A	9½	1 1/16	1 1/16	A	10	1 15/16	1 15/16
70.0-81.9	C	9½	1/16	1/16	A	10	13/16	13/16	A	11	1 7/16	1 7/16
82.0-85.0	C	10	5/16	5/16	A	11	5/16	5/16	A	12	15/16	15/16

O.D. ■ Range	14 — Groove, F = 16⅛				16 — Groove, F = 18⅜				18 — Groove, F = 20⅝			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-29.9	D	9¼	1⅛	7¾	D	10½	1⅛	9	D	16½	1⅛	5¼
30.0-39.9	A	9	3 3/16	3 3/16	A	10	4 3/16	4 3/16	A	12	4 5/16	4 5/16
40.0-57.9	A	10	3 3/16	3 1/16	A	10½	3 15/16	3 15/16	A	12½	4 1/16	4 1/16
58.0-69.9	A	11	2 3/16	2 3/16	A	11	3 11/16	3 11/16	A	13	3 13/16	3 13/16
70.0-81.9	A	12	2 1/16	2 1/16	A	12	3 3/16	3 3/16	A	14	3 5/16	3 5/16
82.0-85.0	A	13	1 15/16	1 15/16	A	13	2 11/16	2 11/16	A	15	2 13/16	2 13/16

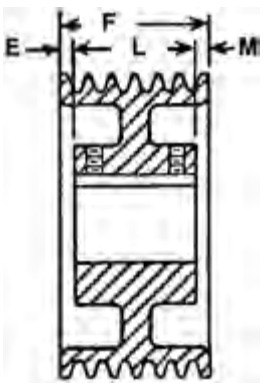
O.D. ■ Range	20 — Groove, F = 22⅞				22 — Groove, F = 25⅛				24 — Groove, F = 27⅜			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-29.9	D	18	1⅛	6	D	19	1⅛	7¼	D	22	1⅛	6½
30.0-39.9	A	13½	4 11/16	4 11/16	A	20½	2 13/16	2 13/16	A	22	2 11/16	2 11/16
40.0-57.9	A	14	4 1/16	4 1/16	A	15	5 1/16	5 1/16	A	23	2 3/16	2 3/16
58.0-69.9	A	14½	4 3/16	4 3/16	A	16	4 9/16	4 9/16	A	17	5 3/16	5 3/16
70.0-81.9	A	15	3 15/16	3 15/16	A	16½	4 5/16	4 5/16	A	17½	4 15/16	4 15/16
82.0-85.0	A	16	3 1/16	3 1/16	A	17	4 1/16	4 1/16	A	18	4 11/16	4 11/16

■ P.D. = O.D. – .20"

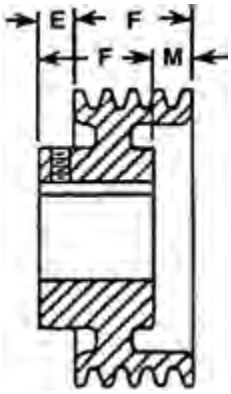
Made-To-Order Sheaves



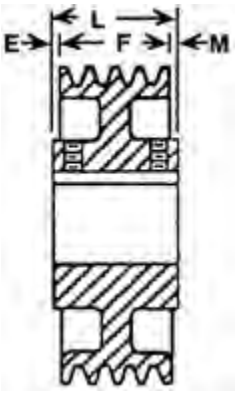
MTO — A



TYPE A



TYPE D



TYPE C

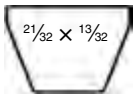
O.D. ■ Range	1 — Groove, F = ◆				2 — Groove, F = 1⅜				3 — Groove, F = 2			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
3.0-6.9	D	1⅜	⅝	—	D	1⅜	⅝	⅝	D	1½	⅝	1¼
7.0-11.9	D	1⅜	⅝	⅛	D	2	⅝	—	D	2	⅝	⅝
12.0-20.9	C	2	⅝	⅜	D	2	⅝	—	D	2	⅝	⅝
21.0-25.0	C	2	½	½	C	2	5/16	5/16	C	2½	¼	¼

O.D. ■ Range	4 — Groove, F = 2⅝				5 — Groove, F = 3¼				6 — Groove, F = 3⅞			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
3.0-6.9	D	2	⅝	1¼	D	2½	⅝	1⅜	D	2¾	⅝	1¾
7.0-14.9	A	2	⅝	1¼	D	2½	⅝	1⅜	D	2¾	⅝	1¾
15.0-20.9	A	2½	⅝	¾	D	3	⅝	⅞	D	3½	⅝	1
21.0-25.0	A	2½	1/16	1/16	A	3	⅛	⅛	A	3½	3/16	3/16

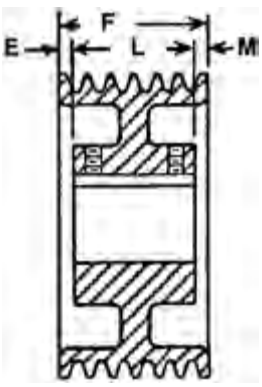
O.D. ■ Range	7 — Groove, F = 4½				8 — Groove, F = 5⅛				10 — Groove, F = 6⅜			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
3.0-6.9	D	3	⅝	2⅛	D	3½	⅝	2¼	D	3½	⅝	3½
7.0-14.9	D	3	⅝	2⅛	D	3½	⅝	2¼	D	3½	⅝	3½
15.0-20.9	D	3½	⅝	1⅝	D	4	⅝	1¾	D	4	⅝	3
21.0-25.0	A	3½	½	½	A	4	9/16	9/16	A	4	1 1/16	1 3/16

■ P.D. = O.D. + .25"
◆ ¾" for 3.0-6.9 P.D., ⅞" for 7.0-11.9 P.D., 1" for 12.0-25.0 P.D.

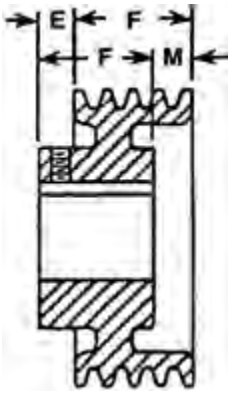
Made-To-Order Sheaves



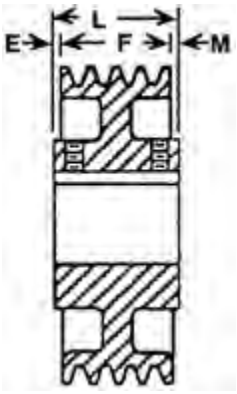
MTO — B



TYPE A



TYPE D



TYPE C

O.D. ■ Range	2 — Groove, F = 1¼				3 — Groove, F = 2½				4 — Groove, F = 3¼			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-6.9	D	2¼	⅞	⅜	D	2½	⅞	⅞	D	3	⅞	1⅛
7.0-20.9	D	2¼	⅞	⅜	D	2½	⅞	⅞	D	3	⅞	1⅛
21.0-39.0	C	3	⅝	⅝	C	3	¼	¼	C	3½	⅛	⅛

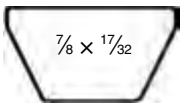
O.D. ■ Range	5 — Groove, F = 4				6 — Groove, F = 4¾				7 — Groove, F = 5½			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-8.9	D	3	⅞	1⅛	D	3	⅞	2⅝	D	3	⅞	3⅜
9.0-20.9	D	3	⅞	1⅛	D	3½	⅞	2⅛	D	3½	⅞	2⅛
21.0-29.9	A	3½	¼	¼	A	3½	⅝	⅝	A	4	¾	¾
30.0-38.0	A	4	—	—	A	4	⅜	⅜	A	4½	½	½

O.D. ■ Range	8 — Groove, F = 6¼				9 — Groove, F = 7				10 — Groove, F = 7¾			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-8.9	D	3½	⅞	3⅜	D	3½	⅞	4⅜	D	4	⅞	4⅜
9.0-20.9	D	4	⅞	3⅛	D	4	⅞	3⅞	D	4½	⅞	4⅛
21.0-24.9	A	4½	⅞	⅞	A	5	1	1	A	5½	1⅛	1⅛
25.0-38.0	A	5	⅝	⅝	A	5½	¾	¾	A	6	⅞	⅞

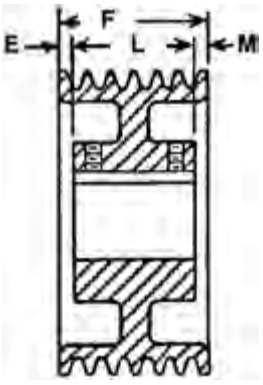
O.D. ■ Range	12 — Groove, F = 9¼				13 — Groove, F = 10				14 — Groove, F = 10¾			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-8.9	D	5½	⅞	4⅝	D	6	⅞	4⅞	D	6½	⅞	5⅛
9.0-20.9	D	5½	⅞	4⅝	D	6	⅞	4⅞	D	6½	⅞	5⅛
21.0-24.9	A	5½	1⅛	1⅛	A	6	2	2	A	6½	2⅛	2⅛
25.0-29.9	A	6	1⅝	1⅝	A	6½	1¾	1¾	A	7	1⅞	1⅞
30.0-38.0	A	6½	1⅜	1⅜	A	7	1½	1½	A	7½	1⅝	1⅝

■ P.D. = O.D. + .35"

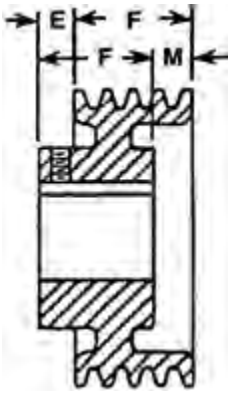
Made-To-Order Sheaves



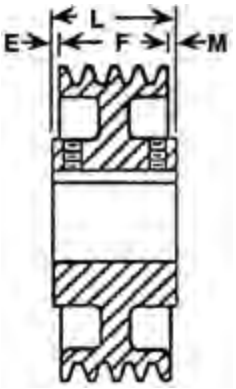
MTO — C



TYPE A



TYPE D



TYPE C

O.D. ■ Range	3 — Groove, F = 3⅜				4 — Groove, F = 4⅜				5 — Groove, F = 5⅜			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	2½	⅞	1¾	D	3	⅞	2¼	D	3½	⅞	2¾
16.0-23.9	D	3	⅞	1¼	D	3½	⅞	1¾	D	4	⅞	2¼
24.0-35.9	A	3½	1/16	1/16	A	3½	7/16	7/16	A	4	11/16	11/16
36.0-43.9	A	4	5/16	5/16	C	4½	1/16	1/16	A	5	3/16	3/16
44.0-55.9	A	4½	9/16	9/16	C	5	5/16	5/16	C	5½	1/16	1/16
56.0-64.0	A	5	13/16	13/16	C	5½	9/16	9/16	C	6	5/16	5/16

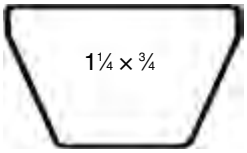
O.D. ■ Range	6 — Groove, F = 6⅜				7 — Groove, F = 7⅜				8 — Groove, F = 8⅜			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	3½	⅞	3¾	D	4	⅞	4¼	D	5	⅞	5¼
16.0-23.9	D	4	⅞	3¼	D	4½	⅞	3¾	D	5½	⅞	4¾
24.0-35.9	A	4½	15/16	15/16	A	5	1 3/16	1 3/16	A	5½	1 1/16	1 1/16
36.0-43.9	A	5	11/16	11/16	A	5½	15/16	15/16	A	6½	1 3/16	1 3/16
44.0-55.9	A	5½	7/16	7/16	A	6	11/16	11/16	A	7	15/16	15/16
56.0-64.0	A	6	3/16	3/16	A	6½	7/16	7/16	A	7½	11/16	11/16

O.D. ■ Range	9 — Groove, F = 9⅜				10 — Groove, F = 10⅜				11 — Groove, F = 11⅜			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	5	⅞	5¼	D	6	⅞	5¼	D	7	⅞	5¼
16.0-23.9	D	5½	⅞	4¾	D	6½	⅞	4¾	D	7½	⅞	4¾
24.0-35.9	A	6	1 11/16	1 11/16	A	7	1 11/16	1 11/16	A	8	1 11/16	1 11/16
36.0-43.9	A	6½	1 7/16	1 7/16	A	7½	1 7/16	1 7/16	A	8½	1 7/16	1 7/16
44.0-55.9	A	7	1 3/16	1 3/16	A	8	1 3/16	1 3/16	A	9	1 3/16	1 3/16
56.0-64.0	A	7½	15/16	15/16	A	8½	15/16	15/16	A	9½	15/16	15/16

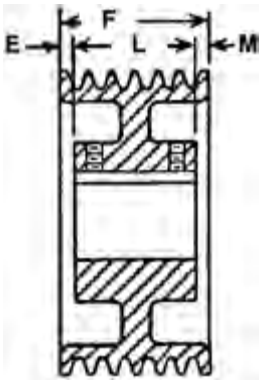
O.D. ■ Range	12 — Groove, F = 12⅜				13 — Groove, F = 13⅜				14 — Groove, F = 14⅜			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	7	⅞	6¼	D	8	⅞	6¼	D	8	⅞	7¼
16.0-23.9	D	7½	⅞	5¾	D	8	⅞	6¼	D	8	⅞	7¼
24.0-35.9	A	8	2 3/16	2 3/16	A	8½	2 7/16	2 7/16	A	8½	2 15/16	2 15/16
36.0-43.9	A	8½	1 15/16	1 15/16	A	9	2 3/16	2 3/16	A	9	2 1 1/16	2 1 1/16
44.0-55.9	A	9	1 1 1/16	1 1 1/16	A	9½	1 15/16	1 15/16	A	9½	2 7/16	2 7/16
56.0-64.0	A	9½	1 7/16	1 7/16	A	10	1 1 1/16	1 1 1/16	A	10	2 3/16	2 3/16

■ P.D. = O.D. + .40"

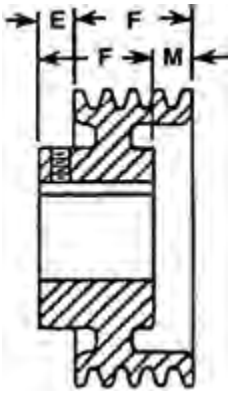
Made-To-Order Sheaves



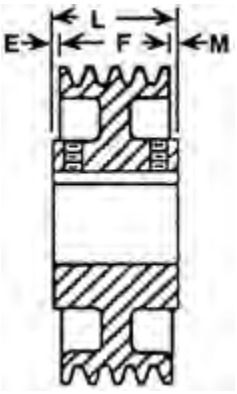
MTO — D



TYPE A



TYPE D



TYPE C

O.D. ■ Range	3 — Groove, F = 4⅝				4 — Groove, F = 6 1/16				5 — Groove, F = 7½			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-26.9	D	4	1	1⅝	D	4	1	3 1/16	D	4½	1	4
27.0-39.9	A	4	5/16	5/16	A	4½	25/32	25/32	D	5½	1	1
40.0-57.9	C	5	3/16	3/16	A	5½	9/32	9/32	A	6½	½	½
58.0-69.9	C	5½	7/16	7/16	A	6	1/32	1/32	A	7	¼	¼
70.0-81.9	C	6	1 1/16	1 1/16	C	6½	7/32	7/32	A	7½	—	—
82.0-85.0	C	6½	15/16	15/16	C	7	15/32	15/32	C	8	¼	¼

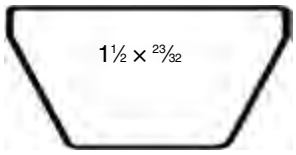
O.D. ■ Range	6 — Groove, F = 8 15/16				7 — Groove, F = 10⅜				8 — Groove, F = 11 13/16			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-26.9	D	5	1	4 15/16	D	5½	1	5⅞	D	6	1	6 13/16
27.0-39.9	A	6	1 15/32	1 15/32	A	7	1 11/16	1 11/16	A	7½	2 5/32	2 5/32
40.0-57.9	C	7	31/32	31/32	A	8	1 3/16	1 3/16	A	8½	1 21/32	1 21/32
58.0-69.9	C	7½	23/32	23/32	A	8½	15/16	15/16	A	9	1 13/32	1 13/32
70.0-81.9	C	8	15/32	15/32	A	9	1 1/16	1 1/16	A	9½	1 5/32	1 5/32
82.0-85.0	C	8½	7/32	7/32	A	9½	7/16	7/16	A	10	29/32	29/32

O.D. ■ Range	9 — Groove, F = 13¼				10 — Groove, F = 14 11/16				11 — Groove, F = 16⅛			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-17.9	D	7	1	7¼	D	8	1	7 1/16	D	13	1	4⅛
18.0-26.9	D	7	1	7¼	D	8	1	7 1/16	D	9	1	8⅛
27.0-39.9	A	8	2⅜	2⅜	A	9	2 27/32	2 27/32	A	9½	3 5/16	3 5/16
40.0-57.9	A	9	2⅛	2⅛	A	10	2 11/32	2 11/32	A	10½	2 13/16	2 13/16
58.0-69.9	A	10	1⅝	1⅝	A	10½	2 3/32	2 3/32	A	11½	2 5/16	2 5/16
70.0-85.0	A	10½	1⅜	1⅜	A	11½	1 19/32	1 19/32	A	12	2 1/16	2 1/16

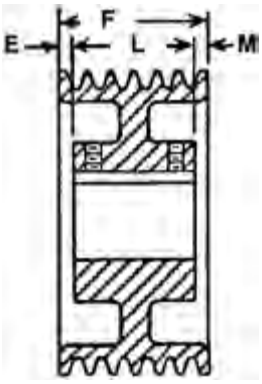
O.D. ■ Range	12 — Groove, F = 17 9/16				13 — Groove, F = 19				14 — Groove, F = 20 7/16			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-17.9	D	14	1	4 9/16	D	15½	1	4½	D	16½	1	4 15/16
18.0-26.9	D	10	1	8 9/16	A	10½	1	9½	D	16½	1	4 15/16
27.0-39.9	A	10½	3 17/32	3 17/32	A	11	4	4	A	12	4 7/32	4 7/32
40.0-57.9	A	11½	3 1/32	3 1/32	A	12½	3¼	3¼	A	13	3 23/32	3 23/32
58.0-69.9	A	12	2 25/32	2 25/32	A	13	3	3	A	13½	3 15/32	3 15/32
70.0-85.0	A	13	2 9/32	2 9/32	A	13½	2¾	2¾	A	14½	2 31/32	2 31/32

■ P.D. = O.D. + .60"

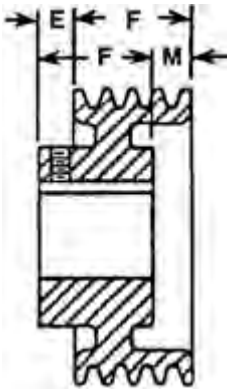
Made-To-Order Sheaves



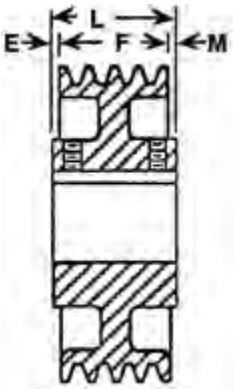
MTO — E



TYPE A



TYPE D



TYPE C

O.D. ■ Range	4 — Groove, F = 7½				6 — Groove, F = 11				8 — Groove, F = 14½			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
21.0-26.9	D	5	1⅛	3⅝	D	7	1⅛	5⅛	D	9	1⅛	6⅝
27.0-45.9	A	6	¾	¾	A	7½	1¾	1¾	A	9½	2½	2½
46.0-57.9	A	6½	½	½	A	8	1½	1½	A	10	2¼	2¼
58.0-73.9	A	7½	0	0	A	8½	1½	1½	A	10½	2	2
74.0-83.9	A	7½	0	0	A	9	1	1	A	11	1¾	1¾
84.0-85.0	C	8	¼	¼	A	9½	¾	¾	A	11½	1½	1½

O.D. ■ Range	10 — Groove, F = 18				12 — Groove, F = 21½				14 — Groove, F = 25			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
21.0-26.9	D	11	1⅛	8⅛	D	17	1⅛	5⅝	D	19	1⅛	7⅛
27.0-45.9	A	11	3½	3½	A	13	4¼	4¼	A	20½	2¼	2¼
46.0-57.9	A	11½	3¼	3¼	A	13½	4	4	A	15	5	5
58.0-73.9	A	12	3	3	A	14	3¾	3¾	A	15½	4¾	4¾
74.0-83.9	A	12½	2¾	2¾	A	14½	3½	3½	A	16½	4¼	4¼
84.0-85.0	A	13	2½	2½	A	15	3¼	3¼	A	16½	4¼	4¼

■ P.D. = O.D. + .80"

Stock FHP Sheaves



AK / BK
Bored-To-Size



AK / BK
MST® (Martin Split Taper) Bushed



2AK / 2BK
Bored-To-Size

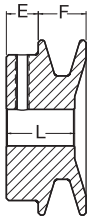


2AK / 2BK
MST® (Martin Split Taper) Bushed

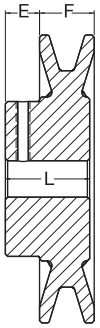
- Fractional Horsepower Sheaves for light duty applications.
- Single and double groove designs.
- Both Bored-To-Size and MST Bushed.
- Precision machined grooves.
- Statically balanced.

Call Martin for your made-to-order and large quantity requirements.

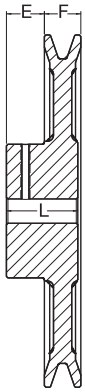
AK Single Groove FHP Sheaves Bored-To-Size



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — AK

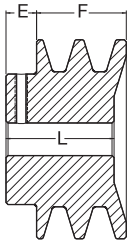
Part Number	Diameter OD	Diameter Datum A(4L) Belts	Diameter Pitch 3L Belts	Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
AK15	1.55	1.30	–	A	½ – ⅝	21/32	7/16	1 3/32	0.3
AK17	1.75	1.50	1.16	A	½ – ⅝	21/32	7/16	15/16	0.3
AK19	1.95	1.70	1.36	A	½ – ⅝ – ¾ – ⅞	21/32	7/16	15/16	0.5
AK20	2.00	1.80	1.46	A	½ – ⅝ – ¾ –	21/32	7/16	15/16	0.5
AK21	2.10	1.90	1.56	A	½ – ⅝ – ¾ –	21/32	7/16	15/16	0.5
AK22	2.20	2.00	1.66	A	½ – ⅝ – ¾ – ⅞	21/32	7/16	15/16	0.6
AK23	2.30	2.10	1.76	A	½ – ⅝ – ¾ –	21/32	7/16	15/16	0.6
AK24	2.40	2.20	1.86	A	½ – ⅝ – ¾ – ⅞ – – 1	21/32	7/16	15/16	0.6
AK25	2.50	2.30	1.96	B	½ – ⅝ – ¾ – ⅞ – –	21/32	7/16	15/16	0.7
AK26	2.60	2.40	2.06	B	½ – ⅝ – ¾ – – –	21/32	7/16	15/16	0.7
AK27	2.70	2.50	2.16	B	½ – ⅝ – ¾ – – – 1	21/32	7/16	15/16	0.8
AK28	2.80	2.60	2.26	B	½ – ⅝ – ¾ – ⅞ – –	21/32	7/16	15/16	0.8
AK30	3.05	2.80	2.46	B	½ – ⅝ – ¾ – ⅞ – – 1	21/32	7/16	15/16	0.9
AK32	3.25	3.00	2.66	B	½ – ⅝ – ¾ – ⅞ – – 1	21/32	7/16	15/16	1.0
AK34	3.45	3.20	2.86	B	½ – ⅝ – ¾ – ⅞ – – 1	21/32	7/16	15/16	1.1
AK35	3.55	3.30	2.96	B	½ – ⅝ – ¾ – ⅞ – – 1	21/32	7/16	15/16	1.2
AK39	3.75	3.50	3.16	B	½ – ⅝ – ¾ – ⅞ – 15/16 – 1	¾	15/32	1 5/32	1.6
AK41	3.95	3.70	3.36	B	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛	¾	15/32	1 5/32	1.6
AK44	4.25	4.00	3.66	B	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛	¾	15/32	1 5/32	1.9
AK46	4.45	4.20	3.86	B	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛	¾	15/32	1 5/32	2.0
AK49	4.75	4.50	4.16	B	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛	¾	15/32	1 5/32	2.1
AK51	4.95	4.70	4.36	B	½ – ⅝ – ¾ – ⅞ – – 1 – 1⅛	¾	15/32	1 5/32	2.2
AK54	5.25	5.00	4.66	B	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛ – 1 3/16	¾	15/32	1 5/32	2.4
AK56	5.45	5.20	4.86	B	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛ – 1 3/16	¾	15/32	1 5/32	2.5
AK59	5.75	5.50	5.16	C	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛ – 1 3/16	¾	15/32	1 5/32	2.7
AK61	5.95	5.70	5.36	C	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛ – 1 3/16	¾	15/32	1 5/32	2.8
AK64	6.25	6.00	5.66	C	½ – ⅝ – ¾ – ⅞ – 15/16 – 1 – 1⅛ – 1 3/16	¾	15/32	1 5/32	3.0
AK66	6.45	6.20	5.86	C	– ⅝ – ¾ – – – 1 – 1⅛ –	¾	15/32	1 5/32	3.0
AK69	6.75	6.50	6.16	C	– – ¾ – – – 1 – 1⅛ –	¾	23/32	1 15/32	3.7
AK71	6.95	6.70	6.36	C	½ – ⅝ – ¾ – – – 1 – 1⅛ – – – – 1 7/16	¾	23/32	1 15/32	4.3
AK74	7.25	7.00	6.66	C	½ – ⅝ – ¾ – – 15/16 – 1 – 1⅛ – 1 3/16 – 1 1/4 – – 1 7/16	¾	23/32 *	1 15/32	4.5
AK79	7.75	7.50	7.16	C	– – ¾ – – – 1 – 1⅛ – – – – 1 7/16	¾	23/32	1 15/32	4.7
AK81	7.95	7.70	7.36	C	– ⅝ – ¾ – – – 1 – – 1 3/16 – – –	¾	23/32	1 15/32	4.7
AK84	8.25	8.00	7.66	C	½ – ⅝ – ¾ – – 15/16 – 1 – – 1 3/16 – – – 1 7/16	¾	23/32 *	1 15/32	5.0
AK89	8.75	8.50	8.16	C	– – ¾ – – – 1 – 1⅛ – – – – 1 7/16	¾	23/32	1 15/32	5.2
AK91	8.95	8.70	8.36	C	– – ¾ – – – 1 – – – – –	¾	23/32	1 15/32	5.2
AK94	9.25	9.00	8.66	C	½ – ⅝ – ¾ – – 15/16 – 1 – – 1 3/16 – 1 1/4 – – 1 7/16	¾	23/32 *	1 15/32	5.5
AK99	9.75	9.50	9.16	C	– ¾ – – – 1 – – – – – 1 7/16	¾	23/32 *	1 15/32	5.7
AK104	10.25	10.00	9.66	C	⅝ – ¾ – – – 1 – – 1 3/16 – 1 1/4 – 1 3/8 – 1 7/16	¾	23/32	1 15/32	5.9
AK109	10.75	10.50	10.16	C	– ¾ – – – 1 – – – – – 1 3/8 – 1 7/16	¾	23/32	1 15/32	6.1
AK114	11.25	11.00	10.66	C	– ¾ – – – 1 – – 1 3/16 – – – 1 7/16	¾	23/32 *	1 15/32	6.7
AK124	12.25	12.00	11.66	C	⅝ – ¾ – – – 1 – – 1 3/16 – 1 1/4 – – 1 7/16	¾	23/32 *	1 15/32	7.3
AK134	13.25	13.00	12.66	C	¾ – – – 1 – – 1 3/16 – – – 1 3/8 – 1 7/16	¾	23/32	1 15/32	8.2
AK144	14.25	14.00	13.66	C	¾ – – – 1 – – 1 3/16 – – – 1 7/16	¾	23/32	1 15/32	8.7
AK154	15.25	15.00	14.66	C	¾ – – – 1 – – – – – 1 7/16	¾	23/32	1 15/32	9.7
AK184	18.25	18.00	17.66	C	¾ – – – 1 – – 1 3/16 – – – 1 7/16	¾	23/32	1 15/32	11.8

E = 25/32 FOR BORE SIZES <= 1
1/2" Bore - setscrew only - no keyway

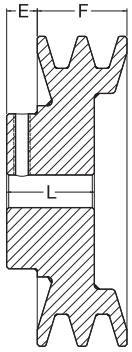
Two Groove FHP Sheaves Bored-To-Size 2AK

Keyway Dimensions
Inch Bore

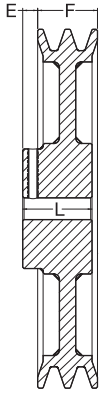
Diameter Of Shaft	Keyway Width × Depth
1/2	NONE
5/8 - 7/8	3/16 × 3/32
15/16 - 1-1/4	1/4 × 1/8
1-5/16 - 1-3/8	5/16 × 5/32
1-7/16 - 1-3/4	3/8 × 3/16



TYPE A
Solid



TYPE B
Web



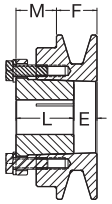
TYPE C
Arm / Spoke

FHP Sheave — 2AK

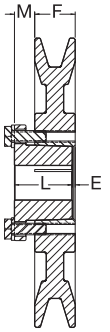
Part Number	Diameter OD	Diameter Datum A(4L) Belts	Diameter Pitch 3L Belts	Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
2AK20	2.00	1.80	1.46	A	½ - ⅝ - ¾	1⅜	15/32	1 21/32	0.8
2AK21	2.15	1.90	1.56	A	½ - ⅝ - ¾	1⅜	15/32	1 21/32	0.9
2AK22	2.25	2.00	1.66	A	½ - ⅝ - ¾ - ⅞ - - 1	1⅜	15/32	1 21/32	1.1
2AK23	2.35	2.10	1.76	A	- ⅝ - ¾ - ⅞ - - 1	1⅜	15/32	1 21/32	1.2
2AK25	2.55	2.30	1.96	A	- ⅝ - ¾ - ⅞ - - 1	1⅜	15/32	1 21/32	1.4
2AK26	2.65	2.40	2.06	A	- ⅝ - ¾ - ⅞ - -	1⅜	15/32	1 21/32	1.5
2AK27	2.75	2.50	2.16	A	- ⅝ - ¾ - ⅞ - - 1	1⅜	15/32	1 21/32	1.6
2AK28	2.85	2.60	2.26	A	- ⅝ - ¾ - ⅞ - - 1	1⅜	15/32	1 21/32	1.7
2AK30	3.05	2.80	2.46	A	½ - ⅝ - ¾ - ⅞ - - 1 - 1⅛	1⅜	15/32	1 21/32	2.0
2AK32	3.25	3.00	2.66	A	⅝ - ¾ - ⅞ - - 1 - 1⅛	1⅜	15/32	1 21/32	2.2
2AK34	3.45	3.20	2.86	A	⅝ - ¾ - ⅞ - - 1 - 1⅛	1⅜	15/32	1 21/32	2.5
2AK39	3.75	3.50	3.16	B	⅝ - ¾ - ⅞ - - 1 - 1⅛	1⅜	15/32	1 11/32	2.6
2AK41	3.95	3.70	3.36	B	⅝ - ¾ - ⅞ - - 1 - 1⅛	1⅜	15/32	1 11/32	2.9
2AK44	4.25	4.00	3.66	B	⅝ - ¾ - ⅞ - - 1 - 1⅛	1⅜	15/32	1 11/32	3.3
2AK46	4.45	4.20	3.86	B	⅝ - - ⅞ - - 1 - 1⅛	1⅜	15/32	1 11/32	3.6
2AK49	4.75	4.50	4.16	B	- ¾ - ⅞ - - 1 - 1⅛ - - 1⅜	1⅜	15/32	1 11/32	3.8
2AK51	4.95	4.70	4.36	B	- ¾ - ⅞ - - 1 - 1⅛ - - 1⅜	1⅜	15/32	1 11/32	4.1
2AK54	5.25	5.00	4.66	B	⅝ - ¾ - ⅞ - - 1 - 1⅛ - - 1⅜	1⅜	15/32	1 11/32	4.3
2AK56	5.45	5.20	4.86	B	⅝ - ¾ - - - 1 - 1⅛ - - 1⅜	1⅜	15/32	1 11/32	4.5
2AK59	5.75	5.50	5.16	B	- - 1 - 1⅛ - - 1⅜	1⅜	15/32	1 11/32	4.9
2AK61	5.95	5.70	5.36	B	¾ - ⅞ - - 1 - 1⅛ - - 1⅜	1⅜	15/32	1 11/32	5.2
2AK64	6.25	6.00	5.66	C	¾ - - - 1 - 1⅛ - 1 3/16 - 1⅜ - 1 7/16	1⅜	11/32	1 19/32	5.6
2AK74	7.25	7.00	6.66	C	¾ - - - 1 - 1⅛ - 1 3/16 - 1⅜ - 1 7/16	1⅜	11/32	1 19/32	6.5
2AK84	8.25	8.00	7.66	C	¾ - - - 15/16 - 1 - 1⅛ - - 1⅜ - 1 7/16	1⅜	11/32	1 19/32	7.2
2AK94	9.25	9.00	8.66	C	¾ - ⅞ - - 1 - 1⅛ - 1 3/16 - 1⅜ - 1 7/16	1⅜	11/32	1 19/32	8.0
2AK104	10.25	10.00	9.66	C	¾ - - - 15/16 - 1 - - - 1 3/16 - - - 1 7/16	1⅜	11/32	1 19/32	9.0
2AK114	11.25	11.00	10.66	C	1 - - - 1 3/16 - 1⅜ - 1 7/16	1⅜	11/32	1 19/32	9.7
2AK124	12.25	12.00	11.66	C	1 - - - 1 3/16 - - - 1 7/16	1⅜	11/32	1 19/32	10.5
2AK134	13.25	13.00	12.66	C	- - 1 3/16 - - - 1 7/16	1⅜	11/32	1 19/32	12.7
2AK144	14.25	14.00	13.66	C	1 - - - - - 1 7/16	1⅜	11/32	1 19/32	13.1
2AK154	15.25	15.00	14.66	C	1 3/16 - - - 1 7/16	1⅜	11/32	1 19/32	14.3
2AK184	18.25	18.00	17.66	C	1 3/16 - - - 1 7/16	1⅜	11/32	1 19/32	17.1

1/2" Bore - setscrew only - no keyway

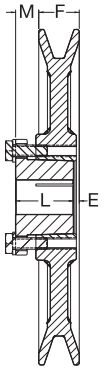
AK-H Single Groove FHP Sheaves MST® Bushed



TYPE A
Solid



TYPE B
Web



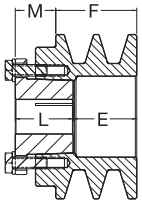
TYPE C
Arm / Spoke

FHP Sheave — AK-H

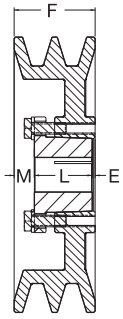
Part Number	Diameter OD	Diameter Datum A(4L) Belts	Diameter Pitch 3L Belts	Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
AK30-H	3.05	2.80	2.46	A	H	1-1/2	3/4	3/8	1-1/4	7/8	1.3
AK32-H	3.25	3.00	2.66	A	H	1-1/2	3/4	3/8	1-1/4	7/8	1.4
AK34-H	3.45	3.20	2.86	A	H	1-1/2	3/4	1/16	1-1/4	9/16	1.2
AK39-H	3.75	3.50	3.16	A	H	1-1/2	3/4	1/16	1-1/4	9/16	1.4
AK41-H	3.95	3.70	3.36	A	H	1-1/2	3/4	1/16	1-1/4	9/16	1.6
AK44-H	4.25	4.00	3.66	A	H	1-1/2	3/4	1/16	1-1/4	9/16	2.0
AK46-H	4.45	4.20	3.86	A	H	1-1/2	3/4	1/16	1-1/4	9/16	2.2
AK49-H	4.75	4.50	4.16	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.1
AK51-H	4.95	4.70	4.36	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.3
AK54-H	5.25	5.00	4.66	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.3
AK56-H	5.45	5.20	4.86	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.4
AK59-H	5.75	5.50	5.16	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.5
AK61-H	5.95	5.70	5.36	C	H	1-1/2	3/4	1/16	1-1/4	9/16	2.6
AK64-H	6.25	6.00	5.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	2.8
AK66-H	6.45	6.20	5.86	C	H	1-1/2	3/4	1/16	1-1/4	9/16	2.8
AK69-H	6.75	6.50	6.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.0
AK71-H	6.95	6.70	6.36	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.0
AK74-H	7.25	7.00	6.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.3
AK79-H	7.75	7.50	7.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.5
AK84-H	8.25	8.00	7.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.8
AK89-H	8.75	8.50	8.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	4.0
AK94-H	9.25	9.00	8.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	4.4
AK99-H	9.75	9.50	9.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	4.7
AK104-H	10.25	10.00	9.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	5.0
AK109-H	10.75	10.50	10.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	5.2
AK114-H	11.25	11.00	10.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	5.5
AK124-H	12.25	12.00	11.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	6.0
AK134-H	13.25	13.00	12.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	7.3
AK144-H	14.25	14.00	13.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	7.9
AK154-H	15.25	15.00	14.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	8.9
AK184-H	18.25	18.00	17.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	11.4

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

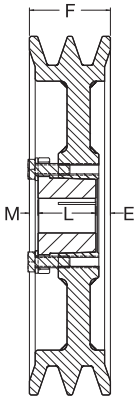
Two Groove FHP Sheaves MST® Bushed 2AK-H



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave —2AK-H

Part Number	Diameter OD	Diameter Datum A(4L) Belts	Diameter Pitch 3L Belts	Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
2AK30-H	3.05	2.80	2.46	A	H	1-1/2	1-3/8	1	1-1/4	7/8	1.7
2AK32-H	3.25	3.00	2.66	A	H	1-1/2	1-3/8	1	1-1/4	7/8	1.9
2AK34-H	3.45	3.20	2.86	A	H	1-1/2	1-3/8	9/16	1-1/4	7/16	1.7
2AK39-H	3.75	3.50	3.16	A	H	1-1/2	1-3/8	9/16	1-1/4	7/16	2.0
2AK41-H	3.95	3.70	3.36	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	2.2
2AK44-H	4.25	4.00	3.66	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	2.7
2AK46-H	4.45	4.20	3.86	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.0
2AK49-H	4.75	4.50	4.16	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.1
2AK51-H	4.95	4.70	4.36	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.5
2AK54-H	5.25	5.00	4.66	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.4
2AK56-H	5.45	5.20	4.86	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.6
2AK59-H	5.75	5.50	5.16	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.4
2AK61-H	5.95	5.70	5.36	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.7
2AK64-H	6.25	6.00	5.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.9
2AK74-H	7.25	7.00	6.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	5.0
2AK84-H	8.25	8.00	7.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	5.6
2AK94-H	9.25	9.00	8.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	6.3
2AK104-H	10.25	10.00	9.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	7.6
2AK114-H	11.25	11.00	10.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	8.4
2AK124-H	12.25	12.00	11.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	9.2
2AK134-H	13.25	13.00	12.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	11.5
2AK144-H	14.25	14.00	13.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	11.8
2AK154-H	15.25	15.00	14.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	13.3
2AK184-H	18.25	18.00	17.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	16.9

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

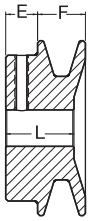
MST "H" Bushings – Inch Bore

Diameter Of Shaft	Keyway Width × Depth	Diameter Of Shaft	Keyway Width × Depth
3/8	NONE	1	1/4 × 1/8
7/16	NONE	1-1/16	1/4 × 1/8
1/2	1/8 × 1/16	1-1/8	1/4 × 1/8
9/16	1/8 × 1/16	1-3/16	1/4 × 1/8
19/32	1/8 × 1/16	1-1/4	1/4 × 1/8
5/8	3/16 × 3/32	1-5/16	5/16 × 1/16
21/32	3/16 × 3/32	1-3/8	5/16 × 1/16
11/16	3/16 × 3/32	1-3/8	3/8 × 1/16
3/4	3/16 × 3/32	1-7/16	3/8 × 1/16
25/32	3/16 × 3/32	1-1/2	3/8 × 1/32
13/16	3/16 × 3/32		
7/8	3/16 × 3/32		
15/16	1/4 × 1/8		
31/32	1/4 × 1/8		

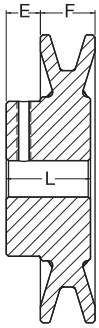
MST "H" Bushings – Millimeter Bore

Diameter Of Shaft	Keyway Width × Depth	Diameter Of Shaft	Keyway Width × Depth
10	NONE	22	6 × 2.8
11	NONE	24	8 × 3.3
12	NONE	25	8 × 3.3
14	5 × 2.3	28	8 × 3.3
16	5 × 2.3	30	8 × 3.3
18	6 × 2.8	32	10 × 1.3
19	6 × 2.8	35	10 × 0.3
20	6 × 2.8	36	10 × 1.3
		38	10 × 0.3

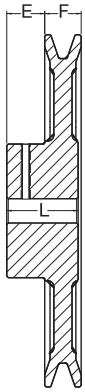
BK Single Groove FHP Sheaves Bored-To-Size



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — BK

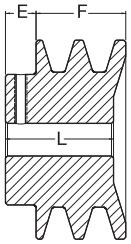
Part Number	Diameter OD	Datum A(4L) Belts	Datum B(5L) Belts	Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
BK23	2.30	-	2.10	A	5/8 - - - - 1	13/16	13/32	1 1/16	0.4
BK24	2.40	1.80	2.20	A	1/2 - 5/8 - 3/4 - 7/8 - -	13/16	13/32	1 1/16	0.4
BK25	2.50	1.90	2.30	A	1/2 - 5/8 - 3/4 - 7/8 - -	13/16	13/32	1 1/16	0.5
BK26	2.60	2.00	2.40	A	1/2 - 5/8 - 3/4 - 7/8 - -	13/16	13/32	1 1/16	0.6
BK27	2.70	2.10	2.50	B	1/2 - 5/8 - 3/4 - 7/8 - - - 1 1/8	13/16	13/32	1 1/16	0.6
BK28	2.95	2.20	2.60	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	13/16	13/32	1 1/16	0.8
BK30	3.15	2.40	2.80	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	13/16	13/32	1 1/16	0.8
BK32	3.35	2.60	3.00	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 -	13/16	13/32	1 1/16	0.8
BK34	3.55	2.80	3.20	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	7/8	13/32	1 5/32	1.3
BK36	3.75	3.00	3.40	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	7/8	13/32	1 5/32	1.5
BK40	3.95	3.20	3.60	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	7/8	13/32	1 5/32	1.5
BK45	4.25	3.50	3.90	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	7/8	13/32	1 5/32	1.8
BK46	4.35	3.60	4.00	B	- - - 7/8 - - -	7/8	13/32	1 5/32	1.8
BK47	4.45	3.70	4.10	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	7/8	13/32	1 5/32	1.8
BK48	4.55	3.80	4.20	B	1/2 - 5/8 - 3/4 - 7/8 - - - 1 1/8	7/8	13/32	1 5/32	2.0
BK50	4.75	4.00	4.40	B	1/2 - 5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8	7/8	13/32	1 5/32	2.0
BK52	4.95	4.20	4.60	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	7/8	13/32	1 5/32	2.0
BK55	5.25	4.50	4.90	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16	7/8	13/32	1 5/32	2.2
BK57	5.45	4.70	5.10	B	- 5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 -	7/8	13/32	1 5/32	2.3
BK60	5.75	5.00	5.40	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16	7/8	13/32	1 5/32	2.3
BK62	5.95	5.20	5.60	B	1/2 - 5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16	7/8	13/32	1 5/32	2.4
BK65	6.25	5.50	5.90	B	5/8 - 3/4 - 7/8 - - 1 - 1 1/8 -	7/8	13/32	1 5/32	2.7
BK67	6.45	5.70	6.10	C	5/8 - 3/4 - 7/8 - - 1 - 1 1/8 -	7/8	13/32	1 5/32	2.8
BK70	6.75	6.00	6.40	C	5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16 - - - 1 7/16	7/8	21/32 *	1 15/32	3.3
BK72	6.95	6.20	6.60	C	- 3/4 - - - 1 - 1 1/8 - - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	3.9
BK75	7.25	6.50	6.90	C	- 3/4 - - - 1 - 1 1/8 - - - - 1 7/16	7/8	21/32	1 15/32	3.9
BK77	7.45	6.70	7.10	C	- 3/4 - - - 1 - 1 1/8 - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	4.1
BK80	7.75	7.00	7.40	C	5/8 - 3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16 - 1 1/4 - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	4.4
BK85	8.25	7.50	7.90	C	3/4 - - - - 1 - 1 1/8 - 1 3/16 - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	5.0
BK90	8.75	8.00	8.40	C	3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16 - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	5.0
BK95	9.25	8.50	8.90	C	3/4 - - - - 1 - 1 1/8 - - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	5.4
BK100	9.75	9.00	9.40	C	3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16 - 1 1/4 - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	5.6
BK105	10.25	9.50	9.90	C	- - - - 1 - - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	5.8
BK110	10.75	10.00	10.40	C	3/4 - - - - 1 - 1 1/8 - 1 3/16 - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	6.4
BK115	11.25	10.50	10.90	C	- - - - 1 - - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	6.9
BK120	11.75	11.00	11.40	C	3/4 - - - - 1 - - 1 3/16 - - - 1 3/8 - 1 7/16	7/8	21/32	1 15/32	7.4
BK130	12.75	12.00	12.40	C	3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16 - - - 1 7/16	7/8	21/32	1 15/32	8.4
BK140	13.75	13.00	13.40	C	3/4 - - - - 1 - - 1 3/16 - - - 1 7/16	7/8	21/32	1 15/32	9.4
BK160	15.75	15.00	15.40	C	1 - 1 1/8 - 1 3/16 - 1 1/4 - - 1 7/16	7/8	21/32	1 15/32	11.4
BK190	18.75	18.00	18.40	C	1 - - - 1 3/16 - 1 1/4 - - 1 7/16	7/8	21/32	1 15/32	13.4

E = 13/32 FOR BORE SIZES <= 1
1/2" Bore - setscrew only - no keyway

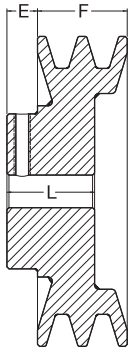
Two Groove FHP Sheaves Bored-To-Size 2BK

Keyway Dimensions
Inch Bore

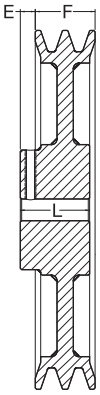
Diameter Of Shaft	Keyway Width × Depth
1/2	NONE
5/8 - 7/8	3/16 × 3/32
15/16 - 1-1/4	1/4 × 1/8
1-5/16 - 1-3/8	5/16 × 5/32
1-7/16 - 1-3/4	3/8 × 3/16



TYPE A
Solid



TYPE B
Web



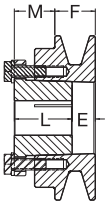
TYPE C
Arm / Spoke

FHP Sheave — 2BK

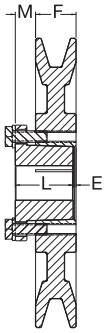
Part Number	Diameter OD	Diameter Datum A(4L) Belts	Diameter Datum B(5L) Belts	Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
2BK25	2.50	1.90	2.30	A	½ – ⅝ – ¾ – ⅞	1¾	15/32	1 31/32	1.3
2BK26	2.60	2.00	2.40	A	– ⅝ – – ⅞ – – 1⅛	1¾	15/32	1 31/32	1.5
2BK27	2.70	2.10	2.50	A	½ – ⅝ – ¾ – ⅞ – 1 –	1¾	15/32	1 31/32	1.6
2BK28	2.95	2.20	2.60	A	½ – ⅝ – ¾ – ⅞ – 1 – 1⅛	1¾	15/32	1 31/32	1.9
2BK30	3.15	2.40	2.80	A	½ – ⅝ – ¾ – ⅞ – 1 – 1⅛	1¾	15/32	1 31/32	2.3
2BK32	3.35	2.60	3.00	A	⅝ – – ⅞ – 1 – 1⅛	1¾	15/32	1 31/32	2.6
2BK34	3.55	2.80	3.20	A	⅝ – ¾ – ⅞ – 1 – 1⅛	1¾	15/32	1 31/32	2.8
2BK36	3.75	3.00	3.40	A	– ¾ – ⅞ – 1 – 1⅛ – – 1⅜	1¾	15/32	1 31/32	3.3
2BK40	3.95	3.20	3.60	B	⅝ – ¾ – ⅞ – 1 – 1⅛ – –	1¾	15/32	1 15/32	3.3
2BK45	4.25	3.50	3.90	B	– – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	3.3
2BK47	4.45	3.70	4.10	B	– ⅞ – 1 – 1⅛ – –	1¾	15/32	1 15/32	3.7
2BK50	4.75	4.00	4.40	B	¾ – – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	4.1
2BK52	4.95	4.20	4.60	B	– ⅞ – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	4.5
2BK55	5.25	4.50	4.90	B	– – – 1⅛ – – 1⅜	1¾	15/32	1 15/32	4.5
2BK57	5.45	4.70	5.10	B	– – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	5.1
2BK60	5.75	5.00	5.40	B	¾ – ⅞ – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	4.9
2BK62	5.95	5.20	5.60	B	– – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	4.8
2BK65	6.25	5.50	5.90	B	– – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	5.0
2BK67	6.45	5.70	6.10	C	– – 1 – 1⅛ – – 1⅜	1¾	15/32	1 15/32	5.0
2BK70	6.75	6.00	6.40	C	¾ – – 1 – 1⅛ – 1 3/16 – 1⅜ – 1 7/16	1¾	11/32	1 19/32	6.6
2BK80	7.75	7.00	7.40	C	¾ – – 1 – 1⅛ – 1 3/16 – 1⅜ – 1 7/16	1¾	11/32	1 19/32	7.2
2BK90	8.75	8.00	8.40	C	¾ – – 1 – 1⅛ – 1 3/16 – 1⅜ – 1 7/16	1¾	11/32	1 19/32	8.4
2BK100	9.75	9.00	9.40	C	¾ – – 1 – – 1 3/16 – 1⅜ – 1 7/16	1¾	11/32	1 19/32	9.4
2BK110	10.75	10.00	10.40	C	1 – – 1 3/16 – – 1 7/16	1¾	11/32	1 19/32	10.4
2BK120	11.75	11.00	11.40	C	1 – – 1 3/16 – – 1 7/16	1¾	11/32	1 19/32	11.8
2BK130	12.75	12.00	12.40	C	1 – – 1 3/16 – – 1 7/16	1¾	11/32	1 19/32	14.9
2BK140	13.75	13.00	13.40	C	1 – – 1 3/16 – – 1 7/16	1¾	11/32	1 19/32	16.3
2BK160	15.75	15.00	15.40	C	1 – – 1 3/16 – – 1 7/16	1¾	11/32	1 19/32	18.0
2BK190	18.75	18.00	18.40	C	1 – – 1 3/16 – – 1 7/16	1¾	11/32	1 19/32	23.3

1/2" Bore - setscrew only - no keyway

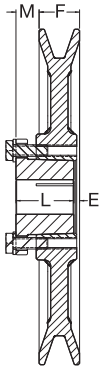
BK-H Single Groove FHP Sheaves MST® Bushed



TYPE A
Solid



TYPE B
Web



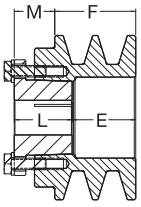
TYPE C
Arm / Spoke

FHP Sheave — BK-H

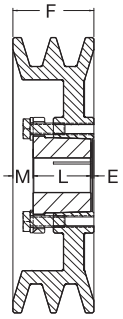
Part Number	Diameter OD	Diameter Datum A(4L) Belts	Diameter Datum B(5L) Belts	Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
BK30-H	3.15	2.40	2.80	A	H	1-1/2	7/8	1/2	1-1/4	7/8	1.3
BK32-H	3.35	2.60	3.00	A	H	1-1/2	7/8	1/2	1-1/4	7/8	1.5
BK34-H	3.55	2.80	3.20	A	H	1-1/2	7/8	1/2	1-1/4	7/8	1.7
BK36-H	3.75	3.00	3.40	B	H	1-1/2	7/8	1/16	1-1/4	7/16	1.3
BK40-H	3.95	3.20	3.60	B	H	1-1/2	7/8	1/16	1-1/4	7/16	1.5
BK45-H	4.25	3.50	3.90	B	H	1-1/2	7/8	1/16	1-1/4	7/16	1.9
BK47-H	4.45	3.70	4.10	B	H	1-1/2	7/8	1/16	1-1/4	7/16	2.2
BK50-H	4.75	4.00	4.40	B	H	1-1/2	7/8	1/16	1-1/4	7/16	2.2
BK52-H	4.95	4.20	4.60	B	H	1-1/2	7/8	1/16	1-1/4	7/16	2.5
BK55-H	5.25	4.50	4.90	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.0
BK57-H	5.45	4.70	5.10	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.2
BK60-H	5.75	5.00	5.40	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.2
BK62-H	5.95	5.20	5.60	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.6
BK65-H	6.25	5.50	5.90	B	H	1-1/2	7/8	1/16	1-1/4	7/16	4.0
BK67-H	6.45	5.70	6.10	B	H	1-1/2	7/8	1/16	1-1/4	7/16	4.2
BK70-H	6.75	6.00	6.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.3
BK72-H	6.95	6.20	6.60	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.6
BK75-H	7.25	6.50	6.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.4
BK77-H	7.45	6.70	7.10	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.7
BK80-H	7.75	7.00	7.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.0
BK85-H	8.25	7.50	7.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.1
BK90-H	8.75	8.00	8.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.5
BK95-H	9.25	8.50	8.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.8
BK100-H	9.75	9.00	9.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	5.1
BK105-H	10.25	9.50	9.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	5.4
BK110-H	10.75	10.00	10.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	6.0
BK115-H	11.25	10.50	10.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	6.3
BK120-H	11.75	11.00	11.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	6.6
BK130-H	12.75	12.00	12.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	7.2
BK140-H	13.75	13.00	13.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	8.6
BK150-H	14.75	14.00	14.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	9.4
BK160-H	15.75	15.00	15.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	10.1
BK190-H	18.75	18.00	18.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	12.3

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

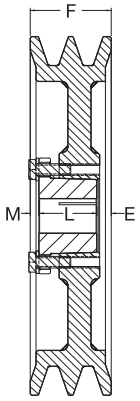
Two Groove FHP Sheaves MST® Bushed 2BK-H



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — 2BK-H

Part Number	Diameter OD	Diameter Datum A(4L) Belts	Diameter Datum B(5L) Belts	Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
2BK32-H	3.35	2.60	3.00	A	H	1-1/2	1-3/4	1-3/8	1-1/4	7/8	2.2
2BK34-H	3.55	2.80	3.20	A	H	1-1/2	1-3/4	1-3/8	1-1/4	7/8	2.6
2BK36-H	3.75	3.00	3.40	A	H	1-1/2	1-3/4	15/16	1-1/4	7/16	2.4
2BK40-H	3.95	3.20	3.60	A	H	1-1/2	1-3/4	15/16	1-1/4	7/16	2.6
2BK45-H	4.25	3.50	3.90	A	H	1-1/2	1-3/4	15/16	1-1/4	7/16	3.1
2BK47-H	4.45	3.70	4.10	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	3.2
2BK50-H	4.75	4.00	4.40	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	3.7
2BK52-H	4.95	4.20	4.60	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.1
2BK55-H	5.25	4.50	4.90	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.2
2BK57-H	5.45	4.70	5.10	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.5
2BK60-H	5.75	5.00	5.40	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.9
2BK62-H	5.95	5.20	5.60	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	5.2
2BK65-H	6.25	5.50	5.90	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	5.7
2BK67-H	6.45	5.70	6.10	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	5.8
2BK70-H	6.75	6.00	6.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	6.1
2BK72-H	6.95	6.20	6.60	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	6.1
2BK80-H	7.75	7.00	7.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	7.4
2BK90-H	8.75	8.00	8.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	8.5
2BK100-H	9.75	9.00	9.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	9.7
2BK110-H	10.75	10.00	10.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	10.9
2BK120-H	11.75	11.00	11.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	12.0
2BK130-H	12.75	12.00	12.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	13.4
2BK140-H	13.75	13.00	13.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	15.3
2BK160-H	15.75	15.00	15.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	17.8
2BK190-H	18.75	18.00	18.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	22.8

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

MST "H" Bushings – Inch Bore

Diameter Of Shaft	Keyway Width × Depth	Diameter Of Shaft	Keyway Width × Depth
3/8	NONE	1	1/4 × 1/8
7/16	NONE	1-1/16	1/4 × 1/8
1/2	1/8 × 1/16	1-1/8	1/4 × 1/8
9/16	1/8 × 1/16	1-3/16	1/4 × 1/8
19/32	1/8 × 1/16	1-1/4	1/4 × 1/8
5/8	3/16 × 3/32	1-5/16	5/16 × 1/16
21/32	3/16 × 3/32	1-3/8	5/16 × 1/16
11/16	3/16 × 3/32	1-3/8	3/8 × 1/16
3/4	3/16 × 3/32	1-7/16	3/8 × 1/16
25/32	3/16 × 3/32	1-1/2	3/8 × 1/32
13/16	3/16 × 3/32		
7/8	3/16 × 3/32		
15/16	1/4 × 1/8		
31/32	1/4 × 1/8		

MST "H" Bushings – Millimeter Bore

Diameter Of Shaft	Keyway Width × Depth	Diameter Of Shaft	Keyway Width × Depth
10	NONE	22	6 × 2.8
11	NONE	24	8 × 3.3
12	NONE	25	8 × 3.3
14	5 × 2.3	28	8 × 3.3
16	5 × 2.3	30	8 × 3.3
18	6 × 2.8	32	10 × 1.3
19	6 × 2.8	35	10 × 0.3
20	6 × 2.8	36	10 × 1.3
		38	10 × 0.3

Stock Variable Pitch Sheaves



1VP
Bored-To-Size



2VP
Bored-To-Size

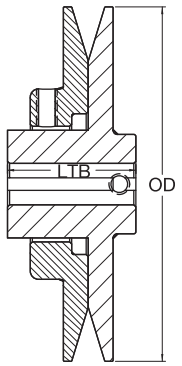
- Stationary adjustable speed sheaves.
- Single and double groove designs.
- Full range of popular bore sizes including keyway and setscrew.
- Positive locking system.
- Precision machined grooves.
- Statically balanced.

Call Martin for your made-to-order and large quantity requirements.

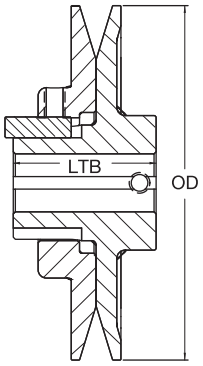
Single Groove Variable Pitch Sheaves – Bored-To-Size 1VP

Keyway Dimensions Inch Bore

Diameter Of Shaft	Keyway Width X Depth
1/2	NONE
5/8 - 7/8	3/16 × 3/32
15/16 - 1-1/4	1/4 × 1/8
1-5/16 - 1-3/8	5/16 × 5/32
1-7/16 - 1-3/4	3/8 × 3/16



TYPE A



TYPE B

Belt Dimensions

Part Number	Diameters And Turns															
	3L Belts				A or 4L Belts				B or 5L Belts				5V Belts			
	Min. Pitch	Turns Open	Max. Pitch	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Pitch	Turns Open	Max. Pitch	Turns Open
1VP25	1.6	4	2.4	0	-	-	-	-	-	-	-	-	-	-	-	-
1VP30	1.8	4	2.7	0	-	-	-	-	-	-	-	-	-	-	-	-
1VP34	1.9	4	2.8	0	2.0	5	3.0	0	2.3	5	3.2	1	-	-	-	-
1VP40	2.4	4	3.2	0	2.5	5	3.5	0	2.6	6	3.6	1	-	-	-	-
1VP44	2.8	4	3.7	0	2.9	5	3.9	0	3.0	6	4.0	1	-	-	-	-
1VP50	3.4	4	4.2	0	3.5	5	4.5	0	3.6	6	4.6	1	-	-	-	-
1VP56	4.0	4	4.8	0	4.1	5	5.1	0	4.2	6	5.2	1	-	-	-	-
1VP60	-	-	-	-	4.2	5	5.2	0	4.4	6	5.6	0	-	-	-	-
1VP62	4.6	4	5.4	0	4.7	5	5.7	0	4.8	6	5.8	1	5.1	6	6.1	1
1VP65	-	-	-	-	4.7	5	5.7	0	4.9	6	6.1	0	5.1	6	6.3	0
1VP68	5.2	4	6.0	0	5.3	5	6.3	0	5.4	6	6.4	1	5.7	6	6.7	1
1VP71	-	-	-	-	5.3	5	6.3	0	5.5	6	6.7	0	5.7	6	6.9	0
1VP75	-	-	-	-	5.7	5	6.7	0	5.9	6	7.1	0	6.1	6	7.3	0

Dimensions in Inches

Sock Size Dimensions

Part Number	OD	Type	L Thru Bore	Stock Finished Bores Includes Keyway and Setscrew	Wt. Lbs. (Approx.)
1VP25	2.50	A	1-23/32	1/2 - 5/8 - 3/4	0.8
1VP30	2.87	A	1-11/16	1/2 - 5/8 - 3/4	1.1
1VP34	3.15	A	1-29/32	1/2 - 5/8 - 3/4 - 7/8	1.4
1VP40	3.75	A	1-7/8	1/2 - 5/8 - 3/4 - 7/8	1.7
1VP44	4.15	A	1-7/8	1/2 - 5/8 - 3/4	2.4
1VP44	4.15	B	2-3/16	7/8 - 1 - 1-1/8	3.0
1VP50	4.75	A	2	1/2 - 5/8 - 3/4	2.7
1VP50	4.75	B	2-5/32	7/8 - 1 - 1-1/8	3.5
1VP56	5.35	A	1-15/16	1/2 - 5/8 - 3/4	4.1
1VP56	5.35	B	2-5/32	7/8 - 1 - 1-1/8	4.4
1VP60	6.00	B	2-7/32	5/8 - 3/4 - 7/8 - 1 - 1-1/8 - - 1-3/8	6.3
1VP62	5.95	B	1-29/32	5/8 - 3/4 - 7/8 - 1 - 1-1/8 - 1-1/4 - 1-3/8	6.1
1VP65	6.50	B	2-7/32	- 3/4 - 7/8 - - 1-1/8 - - 1-3/8	7.1
1VP68	6.55	B	1-29/32	5/8 - 3/4 - 7/8 - 1 - 1-1/8 - 1-1/4 - 1-3/8	7.3
1VP71	7.10	B	2-7/32	3/4 - 7/8 - - 1-1/8 - - 1-3/8	8.2
1VP75	7.50	B	2-7/32	3/4 - 7/8 - 1 - 1-1/8 - - 1-3/8	9.0

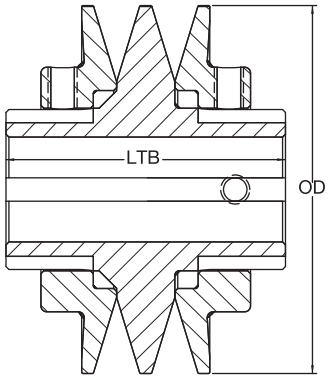
1/2" Bore - setscrew only - no keyway

Dimensions in Inches

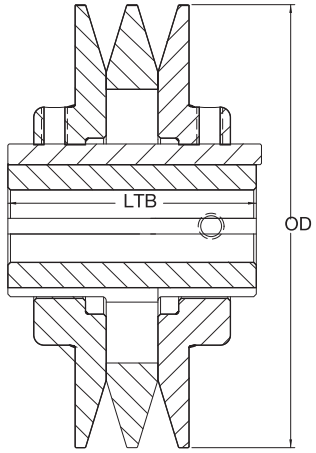
2VP Two Groove Variable Pitch Sheaves – Bored-To-Size

Keyway Dimensions
Inch Bore

Diameter Of Shaft	Keyway Width × Depth
1/2	NONE
5/8 - 7/8	3/16 × 3/32
15/16 - 1-1/4	1/4 × 1/8
1-5/16 - 1-3/8	5/16 × 5/32
1-7/16 - 1-3/4	3/8 × 3/16



TYPE A



TYPE B

Belt Dimensions

Part Number	Diameters And Turns															
	3L Belts				A or 4L Belts				B or 5L Belts				5V Belts			
	Min. Pitch	Turns Open	Max. Pitch	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Pitch	Turns Open	Max. Pitch	Turns Open
2VP36	2.0	4	2.8	0	2.1	5	3.1	0	2.4	5	3.2	1	-	-	-	-
2VP42	2.6	4	3.4	0	2.7	5	3.7	0	2.8	6	3.8	1	-	-	-	-
2VP50	3.4	4	4.2	0	3.5	5	4.5	0	3.6	6	4.6	1	-	-	-	-
2VP56	4.0	4	4.8	0	4.1	5	5.1	0	4.2	6	5.2	1	-	-	-	-
2VP60	-	-	-	-	4.2	5	5.2	0	4.4	6	5.6	0	-	-	-	-
2VP62	4.6	4	5.4	0	4.7	5	5.7	0	4.8	6	5.8	1	5.1	6	6.1	1
2VP65	-	-	-	-	4.7	5	5.7	0	4.9	6	6.1	0	5.1	6	6.3	0
2VP68	5.2	4	6.0	0	5.3	5	6.3	0	5.4	6	6.4	1	5.7	6	6.7	1
2VP71	-	-	-	-	5.3	5	6.3	0	5.5	6	6.7	0	5.7	6	6.9	0
2VP75	-	-	-	-	5.7	5	6.7	0	5.9	6	7.1	0	6.1	6	7.3	0

Dimensions in Inches

Sock Size Dimensions

Part Number	OD	Type	L Thru Bore	Stock Finished Bores Includes Keyway and Setscrew	Wt. Lbs. (Approx.)
2VP36	3.35	A	3	1/2 - 5/8 - 3/4 - 7/8 - 1	3.6
2VP42	3.95	A	3	5/8 - 3/4 - 7/8 - 1 - 1-1/8	4.5
2VP50	4.75	B	3	5/8 - 3/4 - 7/8 - 1 - 1-1/8	6.1
2VP56	5.35	B	3	5/8 - 3/4 - 7/8 - 1 - 1-1/8	7.5
2VP60	6.00	B	3-1/4	3/4 - 7/8 - 1 - 1-1/8 - - 1-3/8	10.9
2VP62	5.95	B	3	3/4 - 7/8 - 1 - 1-1/8 - - 1-3/8	10.0
2VP65	6.50	B	3-1/4	3/4 - 7/8 - - 1-1/8 - - 1-3/8	12.5
2VP68	6.55	B	3	3/4 - 7/8 - 1 - 1-1/8 - 1-1/4 - 1-3/8	11.7
2VP71	7.10	B	3-1/4	3/4 - 7/8 - - 1-1/8 - - 1-3/8	14.7
2VP75	7.50	B	3-1/4	3/4 - 7/8 - 1 - 1-1/8 - - 1-3/8	16.3

1/2" Bore - setscrew only - no keyway

Dimensions in Inches

Mounting and Adjusting Procedure

Martin Mounting and Adjusting Procedure
Variable Pitch Sheaves

Single Groove Sheaves Without External Key:

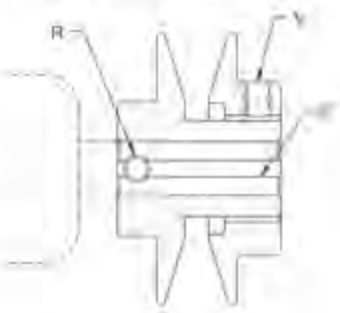
Mounting:

1. Make sure that the shaft, sheave bore, key and keyway are free of burrs and paint.
2. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. Be sure setscrew "R" is well over the shaft.
3. Fit shaft key "C" between sheave and shaft. Lock setscrew "R" in place. Wrench torque 110 in.-lb. minimum – 130 in.-lb. maximum.
4. Be sure both driving and driven sheaves are in alignment and that shafts are parallel.
5. Total axial and parallel misalignment must not exceed ¼°.

Adjusting:

1. Loosen setscrew "V" in movable flange of sheave.
2. Adjust sheave pitch diameter for desired speed by opening rotating parts by half or full turn increments from closed position. **Do not open more than five full turns for "A" belts or six full turns for "B" belts.**
3. Tighten setscrew "V" over a flat in the hub to 110 to 130 in.-lb.
4. Put on belts and adjust belt tension. (Do not force belts over grooves.)
5. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
6. Be sure that key is in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours of service.

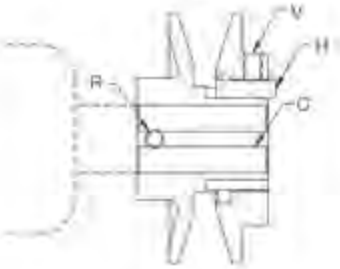
Do not operate sheave with flange projecting beyond the hub end.



Single Groove Sheaves With External Key:

Key "H" projects to provide a grip for removal.

Do not operate sheave with flange projecting beyond the hub end.



Mounting:

1. Make sure that the shaft, sheave bore, keys and keyways are free of burrs and paint.
2. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. Be sure setscrew "R" is well over the shaft.
3. Fit shaft key "C" between sheave and shaft. Lock setscrew "R" in place. Wrench torque 110 in.-lb. minimum - 130 in.-lb. maximum.
4. Be sure both driving and driven sheaves are in alignment and that shafts are parallel.
5. Total axial and parallel misalignment must not exceed ¼°.

Adjusting:

1. Loosen setscrew "V" in movable flange of sheave and pull out external key "H". (This key projects a small amount to provide a grip for removal.)
2. Adjust sheave pitch diameter for desired speed by opening rotating parts by half or full turn increments from closed position. **Do not open more that five full turns for "A" belts or six full turns for "B" belts.** *(Except 1VP34 - 5 turns.)*
3. Replace key "H" and tighten setscrew "V" to 110 to 130 in.-lb.
4. Put on belts and adjust belt tension. (Do not force belts over grooves.)
5. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
6. Be sure that all keys are in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours service.

WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

Variable Pitch Sheaves Instructions

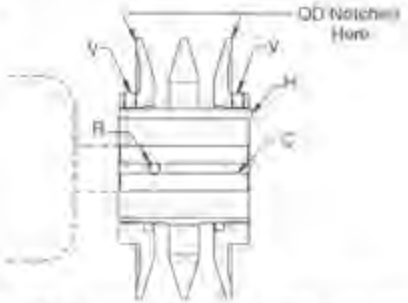
Mounting and Adjusting Procedure

Martin Mounting and Adjusting Procedure
Variable Pitch Sheaves

Double Groove Sheaves With External Key:

Mounting:

1. Make sure that the shaft, sheave bore, keys and keyways are free of burrs and paint.
2. Remove key "H" from sheave. Unscrew flanges until setscrew "R" is visible. If setscrew "R" is at an angle, flange may have to be removed in order to tighten it.
3. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. If setscrew "R" is at an angle, mount away from motor.
4. Fit shaft key "C" between sheave and shaft, and lock setscrew "R" in place. Wrench torque 110 in.-lb. minimum - 130 in.-lb. maximum. Replace outboard flange.
5. Be sure the center flange of both the driving and driven sheaves are in alignment and shafts are parallel.
6. Total axial and parallel misalignment must not exceed ¼".



Key "H" projects to provide a grip for removal.

Do not operate sheave with flange projecting beyond the hub end.

Adjusting:

Each flange of the sheave has a small notch on the O.D. of the flange. This mark is located directly over the keyway on the two adjustable flanges and over one of the keyways on the non-adjustable (center) flange. To obtain proper adjustments:

1. Loosen setscrews "V" in moving flanges and pull out key "H". (This key projects a small amount to provide a grip for removal.)
2. Rotate both movable flanges inward until they touch the center flange.
3. Locate the notch over the keyway on the center flange.
4. Open each movable flange until its notch is adjacent to the notch on the center flange. Be certain that neither movable flange is opened more than one full turn.
5. From the position obtained in Step 4, open each movable flange the same number of full or half turns until the desired number of turns is obtained. **Do not open more than five full turns for "A" belts or six full turns for "B" belts.** *(Except 2VP36 - 5 turns.)*
6. Replace key "H" and tighten setscrews "V". Wrench torque 110 in.-lb. minimum to 130 in.-lb. maximum.
7. Put on belts and adjust belt tension. (Do not force belts over flanges.)
8. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
9. Two groove sheaves must have both halves adjusted by the same number of turns from the position established in Step 4 to ensure the same pitch diameter.
10. Be sure that all keys are in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours service.

WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

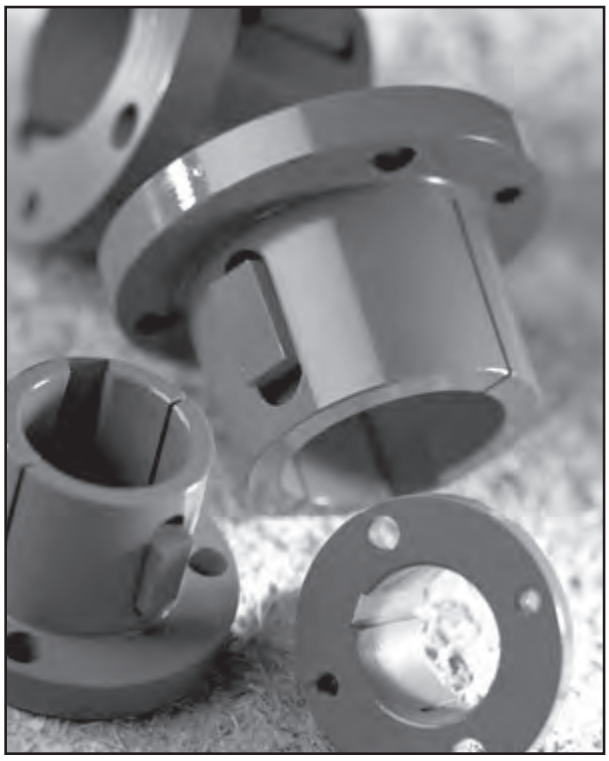
Stock MST® Hi-Cap® Wedge & Conventional Sheaves



Martin Split Taper (MST®)

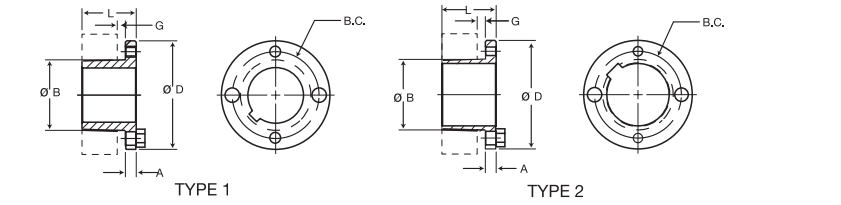
Martin Quality!
Martin Inventory!
Martin Service!





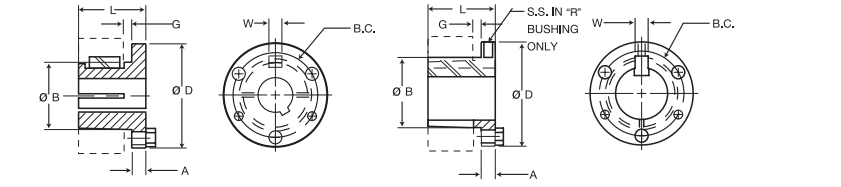
- **Immediate Delivery.**
  Deep and broad inventory...Same day shipment.
- **Local Service & Availability.**
  Branches throughout North America.
  Open early...Stay late...
- **Quick Alterations & MTO's.**
  Fast hardening on unhardened sizes. Special sheave and bushing combinations.
- **Reduced Shipping Expense.**
  Unsurpassed freight allowance...Product closer to YOU... can ship with other products.
- **Lower Transaction Cost.**
  No minimum order or handling charge.
- **Blind Assembly.**
  Bushing will only mount one way in sheave.
  Bolts all line up when bushing is installed.
- **Key to Key Drive.**
  Bushing provides drive keyed to both the shaft and the driven sheave.
- **Comprehensive Offering.**
  Martin Split Taper joins complete QD & Taper Bushed Lines.

MST® Bushings



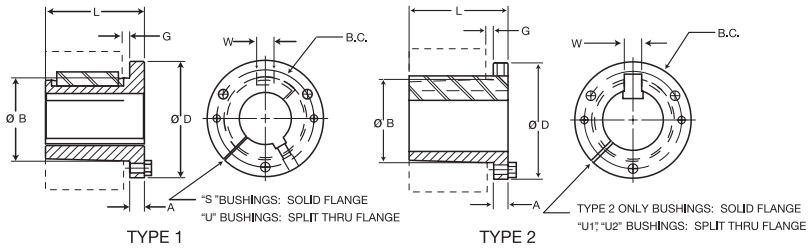
TYPE 1 TYPE 2

"G" & "H" BUSHINGS



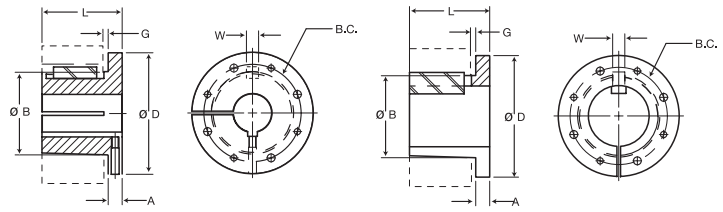
TYPE 1 TYPE 2

"P", "Q" & "R" BUSHINGS



TYPE 1 TYPE 2

"S" & "U" BUSHINGS



TYPE 1 TYPE 2

"W" BUSHINGS

Bushing Specifications

Part Number	Dimensions							Stock Bore Range		Cap Screws		Av. Wt. Lbs.	Wrench Torque In./lbs.
	D	L	A	B Large End	G	B.C.	W	Type 1	Type 2	No.	Size		
G	2	1.00	.25	1.172	.19	1.56	—	.375 – .938	1	2	.25 × .625	.5	95
H	2.5	1.25	.25	1.625	.19	2	—	.375 – 1.375	1.438 – 1.5	2	.25 × .75	.8	95
P1	3	1.94	.41	1.938	.22	2.44	.375	.5 – 1.438	1.5 – 1.75	3	.313 × 1	1.3	192
P2	3	2.94	.41	1.938	.22	2.44	.375	.75 – 1.438	1.5 – 1.75	3	.313 × 1	1.5	192
P3	3	4.44	.41	1.938	.22	2.44	.375	1.125 – 1.375	1.625	3	.313 × 1	2.0	192
Q1	4.12	2.50	.53	2.875	.22	3.38	.5	.75 – 2.063	2.125 – 2.688	3	.375 × 1.25	3.5	348
Q2	4.12	3.50	.53	2.875	.22	3.38	.5	1 – 2.063	2.125 – 2.625	3	.375 × 1.25	4.5	348
Q3	4.12	5.00	.53	2.875	.22	3.38	.5	1.375 – 2.063	2.125 – 2.5	3	.375 × 1.25	5.5	348
R1	5.38	2.88	.62	4	.25	4.62	.75	1.125 – 2.813	2.875 – 3.75	3	.375 × 1.75	7.5	348
R2	5.38	4.88	.62	4	.25	4.62	.75	1.375 – 2.813	2.875 – 3.625	3	.375 × 1.75	11.0	348
S1	6.38	4.38	.75	4.625	.31	5.38	.75	1.688 – 3.188	3.25 – 4.25	3	.5 × 2.25	13.5	840
S2	6.38	6.75	.75	4.625	.31	5.38	.75	1.875 – 3.188	3.25 – 4.188	3	.5 × 2.25	19.0	840
UO	8.38	5.25	1.06	6	.44	7	1.25	2.375 – 3.063	—	3	.625 × 2.75	30.0	1680
UO	8.38	4.94	.75	6	.44	7	1.25	3.25 – 4.25	4.375 – 5.5	3	.625 × 2.75	27.0	1680
U1	8.38	7.12	1.06	6	.44	7	1.25	2.375 – 4.25	4.375 – 5.5	3	.625 × 2.75	40.0	1680
U2	8.38	10.12	1.06	6	.44	7	1.25	2.438 – 4.25	4.375 – 5	3	.625 × 2.75	50.0	1680
W1	12.5	8.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	104.0	3000
W2	12.5	11.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	133.0	3000

All tapers are .75" per 12" on Diameter.

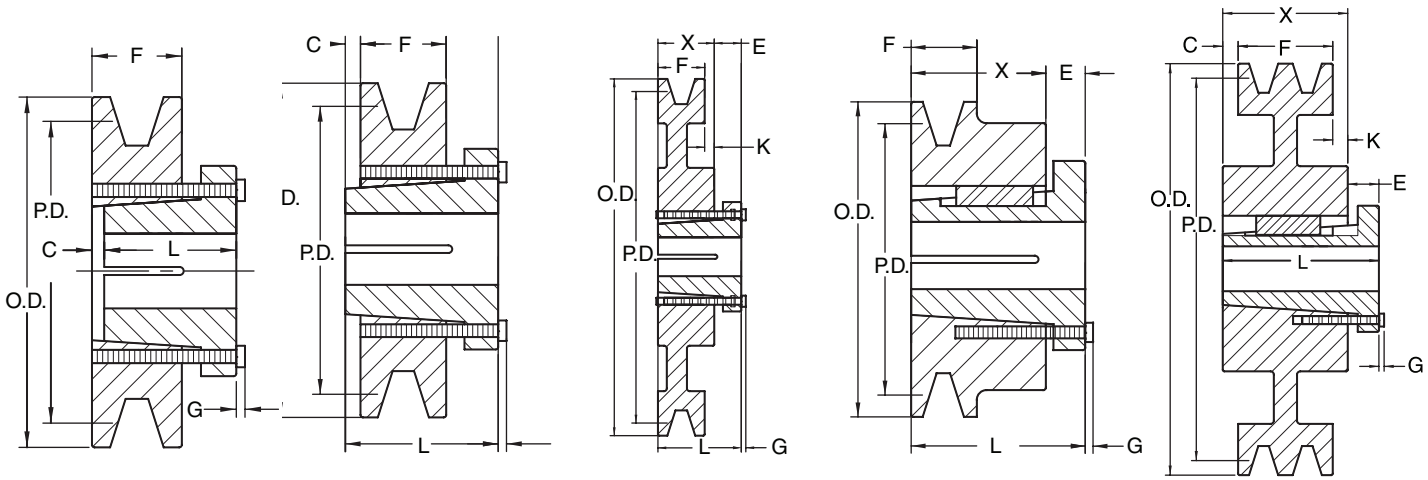
All dimensions are in inches except, as noted.

All bushings are cast iron, ductile iron, sintered steel, or steel. Consult manufacturer for clarification

Metric bushings also available.

FOR MST BUSHING INSTALATION & REMOVAL INSTRUCTION, GO TO PAGE 14 OF SECTION B.

Hi-Cap Wedge Stock MST® Sheaves 3V



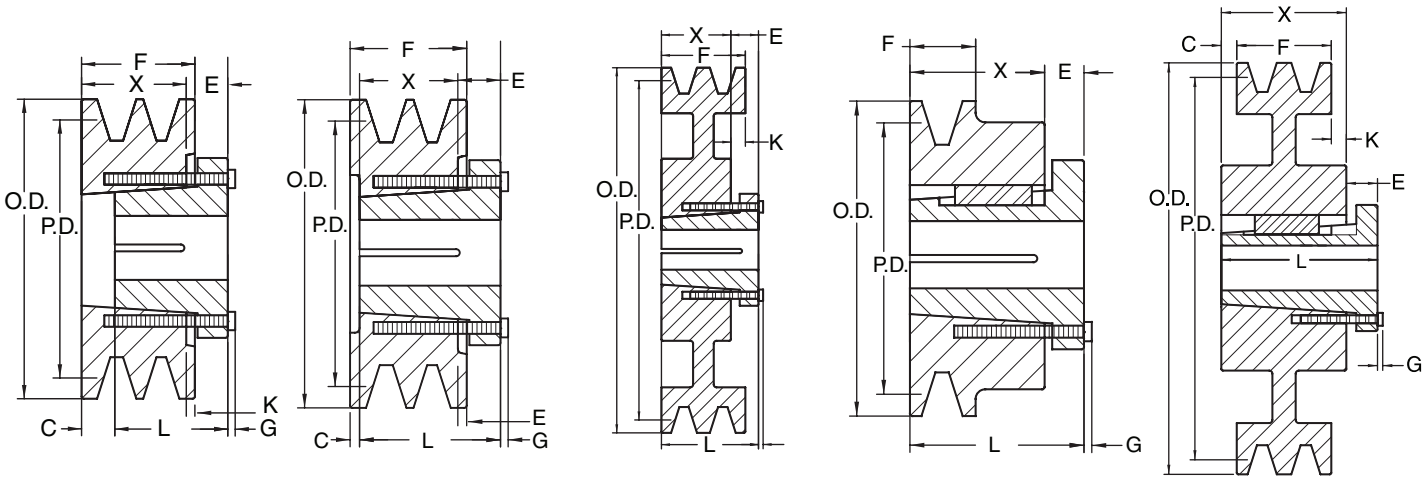
Type A **Type C** **Type E** **Type G** **Type L**

3V MST® Sheaves

1 Groove												
F = 11/16												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
1 3V 265 G	2.65	2.60	A-1	G	1.00	0.13	–	0.19	0.06	1.00	0.63	0.60
1 3V 280 G	2.80	2.75	A-1	G	1.00	0.13	–	0.19	0.06	1.00	0.63	0.70
1 3V 300 G	3.00	2.95	A-1	G	1.00	0.13	–	0.19	0.06	1.00	0.63	0.90
1 3V 315 H	3.15	3.10	C-1	H	1.50	0.13	–	0.19	0.31	1.25	0.88	0.80
1 3V 335 H	3.35	3.30	C-1	H	1.50	0.13	–	0.19	0.31	1.25	0.88	0.90
1 3V 365 H	3.65	3.60	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	1.40
1 3V 365 P	3.65	3.60	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	2.00
1 3V 412 H	4.12	4.07	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	1.90
1 3V 412 P	4.12	4.07	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	2.60
1 3V 450 H	4.50	4.45	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.20
1 3V 450 P	4.50	4.45	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	3.00
1 3V 475 H	4.75	4.70	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.40
1 3V 475 P	4.75	4.70	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	3.50
1 3V 500 H	5.00	4.95	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.60
1 3V 500 P	5.00	4.95	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	3.80
1 3V 530 H	5.30	5.25	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.50
1 3V 530 P	5.30	5.25	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	4.20
1 3V 560 H	5.60	5.55	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.60
1 3V 560 P	5.60	5.55	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	4.60
1 3V 600 H	6.00	5.95	E-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.90
1 3V 600 P	6.00	5.95	G-1	P1	1.75	–	0.63	0.25	0.63	1.94	1.31	5.30
1 3V 650 P	6.50	6.45	L-3	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	5.50
1 3V 690 P	6.90	6.85	L-3	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	4.90
1 3V 800 P	8.00	7.95	L-3	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	6.50
1 3V 1060 P	10.60	10.55	L-3	P1	1.75	0.31	0.63	0.25	0.94	1.94	1.31	7.80
1 3V 1400 Q	14.00	13.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	18.10
1 3V 1900 Q	19.00	18.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	26.30
1 3V 2500 Q	25.00	24.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	38.30

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

3V Hi-Cap Wedge Stock MST® Sheaves

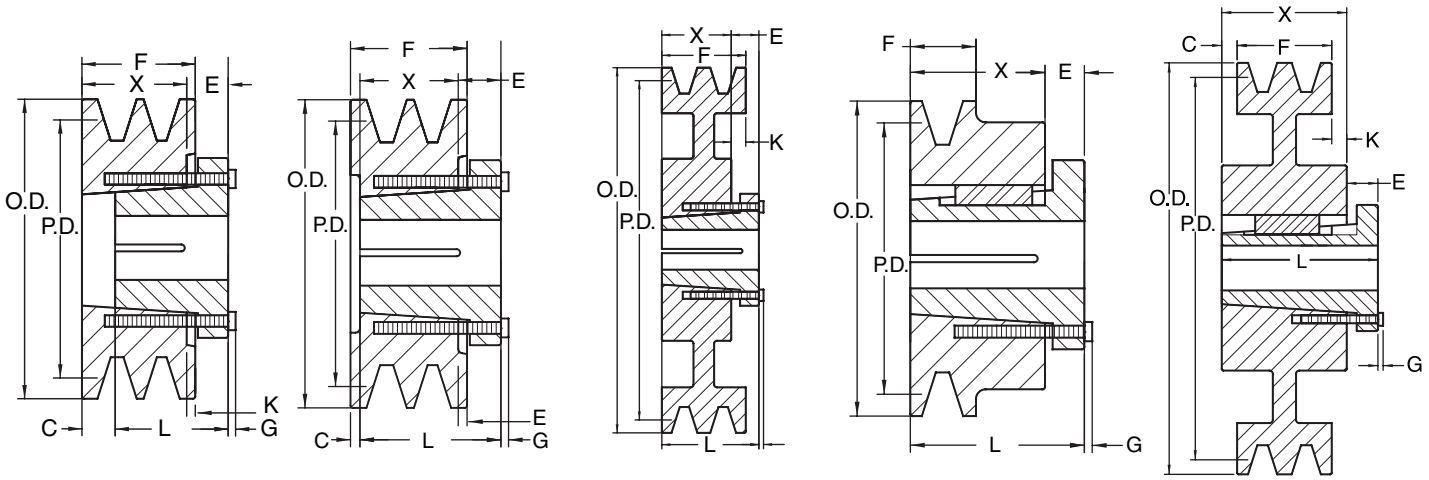


3V MST® Sheaves

2 Groove												
F = 1-1/32												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
2 3V 265 G	2.65	2.60	B-1	G	1.00	0.41	0.44	0.19	–	1.00	0.97	0.80
2 3V 280 G	2.80	2.75	B-1	G	1.00	0.41	0.44	0.19	–	1.00	0.97	0.90
2 3V 300 G	3.00	2.95	B-1	G	1.00	0.41	0.44	0.19	–	1.00	0.97	1.30
2 3V 315 H	3.15	3.10	D-1	H	1.50	0.22	0.44	0.19	–	1.25	0.81	0.90
2 3V 335 H	3.35	3.30	D-1	H	1.50	0.22	0.44	0.19	–	1.25	0.81	1.30
2 3V 365 H	3.65	3.60	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	1.60
2 3V 365 P	3.65	3.60	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	2.00
2 3V 412 H	4.12	4.07	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.30
2 3V 412 P	4.12	4.07	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	2.80
2 3V 450 H	4.50	4.45	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	2.80
2 3V 450 P	4.50	4.45	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	3.50
2 3V 475 H	4.75	4.70	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	3.10
2 3V 475 P	4.75	4.70	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	4.00
2 3V 500 H	5.00	4.95	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	3.40
2 3V 500 P	5.00	4.95	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	4.60
2 3V 530 H	5.30	5.25	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	3.70
2 3V 530 P	5.30	5.25	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	5.60
2 3V 560 H	5.60	5.55	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	3.10
2 3V 560 P	5.60	5.55	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	6.00
2 3V 600 H	6.00	5.95	F-1	H	1.50	–	0.44	0.19	0.19	1.25	0.88	3.60
2 3V 600 P	6.00	5.95	G-1	P1	1.75	–	0.63	0.25	–	1.94	1.31	6.80
2 3V 650 P	6.50	6.45	L-3	P1	1.75	0.33	0.75	0.28	1.05	2.50	1.75	8.30
2 3V 690 P	6.90	6.85	L-3	P1	1.75	0.33	0.75	0.28	1.05	2.50	1.75	9.80
2 3V 800 P	8.00	7.95	L-3	Q1	2.69	0.33	0.75	0.28	1.05	2.50	1.75	10.80
2 3V 1060 P	10.60	10.55	L-3	Q1	2.69	0.33	0.75	0.28	1.05	2.50	1.75	13.50
2 3V 1400 Q	14.00	13.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	22.50
2 3V 1900 Q	19.00	18.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	28.90
2 3V 2500 Q	25.00	24.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	43.50

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

Hi-Cap Wedge Stock MST® Sheaves 3V

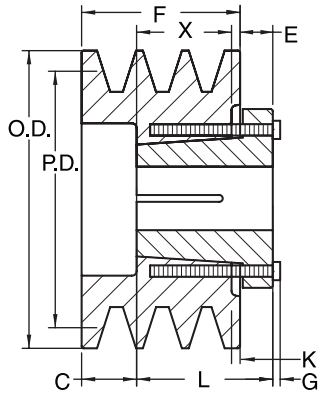


3V MST® Sheaves

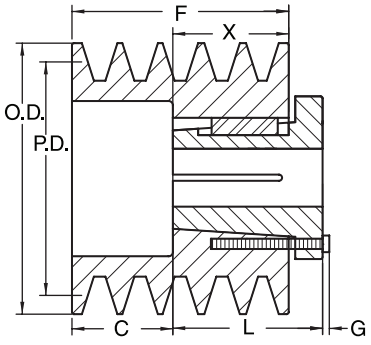
3 Groove F = 1-1/2												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
3 3V 265 G	2.65	2.60	B-1	G	1.00	0.81	0.44	0.19	0.06	1.00	0.63	1.10
3 3V 280 G	2.80	2.75	B-1	G	1.00	0.81	0.44	0.19	0.06	1.00	0.63	1.60
3 3V 300 G	3.00	2.95	B-1	G	1.00	0.81	0.44	0.19	0.06	1.00	0.63	1.80
3 3V 315 H	3.15	3.10	D-1	H	1.50	0.56	0.44	0.19	0.06	1.25	0.88	1.40
3 3V 335 H	3.35	3.30	D-1	H	1.50	0.56	0.44	0.19	0.06	1.25	0.88	1.80
3 3V 365 P	3.65	3.60	S-1	P1	1.75	0.19	0.63	0.25	0.00	1.94	1.31	2.50
3 3V 412 P	4.12	4.07	S-1	P1	1.75	0.19	0.63	0.25	0.00	1.94	1.31	3.00
3 3V 450 P	4.50	4.45	J-1	P1	1.75	–	0.63	0.25	0.19	1.94	1.31	3.90
3 3V 475 P	4.75	4.70	J-1	P1	1.75	–	0.63	0.25	0.19	1.94	1.31	4.40
3 3V 500 P	5.00	4.95	J-1	P1	1.75	–	0.63	0.25	0.19	1.94	1.31	4.90
3 3V 530 P	5.30	5.25	J-1	P1	1.75	–	0.63	0.25	0.19	1.94	1.31	5.90
3 3V 560 P	5.60	5.55	J-1	P1	1.75	–	0.63	0.25	0.19	1.94	1.31	7.50
3 3V 600 P	6.00	5.95	J-1	P1	1.75	–	0.63	0.25	0.19	1.94	1.31	8.00
3 3V 650 Q	6.50	6.45	L-1	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	9.90
3 3V 690 Q	6.90	6.85	L-1	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	11.30
3 3V 800 Q	8.00	7.95	L-2	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	11.90
3 3V 1060 Q	10.60	10.55	L-3	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	15.10
3 3V 1400 Q	14.00	13.95	L-3	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	24.50
3 3V 1900 R	19.00	18.95	L-3	R1	3.75	0.25	0.88	0.28	0.75	2.88	2.00	35.10
3 3V 2500 R	25.00	24.95	L-3	R1	3.75	0.25	0.88	0.28	0.75	2.88	2.00	55.00
3 3V 3350 R	33.50	33.45	L-3	R1	3.75	0.25	0.88	0.28	0.75	2.88	2.00	80.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

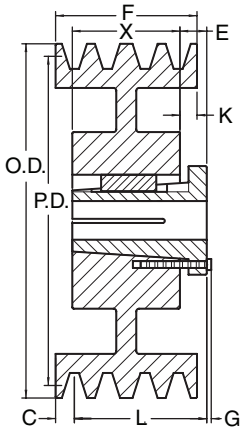
3V Hi-Cap Wedge Stock MST® Sheaves



Type H



Type S



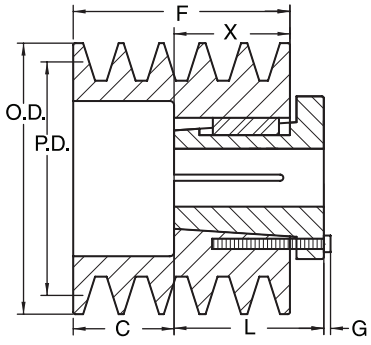
Type J

3V MST® Sheaves

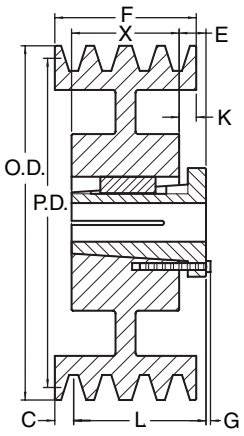
4 Groove												
F = 1-29/32												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
4 3V 265 G	2.65	2.60	H-1	G	1.00	1.22	0.44	0.19	0.06	1.00	0.63	1.40
4 3V 280 G	2.80	2.75	H-1	G	1.00	1.22	0.44	0.19	0.06	1.00	0.63	1.80
4 3V 300 G	3.00	2.95	H-1	G	1.00	1.22	0.44	0.19	0.06	1.00	0.63	2.10
4 3V 315 H	3.15	3.10	H-1	H	1.50	0.97	0.44	0.19	0.06	1.25	0.88	1.80
4 3V 335 H	3.35	3.30	H-1	H	1.50	0.97	0.44	0.19	0.06	1.25	0.88	2.30
4 3V 365 P	3.65	3.60	S-1	P1	1.75	0.59	0.63	0.25	0.00	1.94	1.31	2.80
4 3V 412 P	4.12	4.07	S-1	P1	1.75	0.59	0.63	0.25	0.00	1.94	1.31	3.70
4 3V 450 P	4.50	4.45	J-1	P1	1.75	–	0.63	0.25	0.59	1.94	1.31	4.40
4 3V 475 P	4.75	4.70	J-1	P1	1.75	–	0.63	0.25	0.59	1.94	1.31	5.10
4 3V 500 P	5.00	4.95	J-1	P1	1.75	–	0.63	0.25	0.59	1.94	1.31	5.80
4 3V 530 P	5.30	5.25	J-1	P1	1.75	–	0.63	0.25	0.59	1.94	1.31	6.50
4 3V 560 P	5.60	5.55	J-1	P1	1.75	–	0.63	0.25	0.59	1.94	1.31	8.10
4 3V 600 Q	6.00	5.95	J-1	Q1	2.69	–	0.75	0.28	0.16	2.50	1.75	9.00
4 3V 650 Q	6.50	6.45	J-2	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	11.10
4 3V 690 Q	6.90	6.85	J-2	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	12.90
4 3V 800 Q	8.00	7.95	J-2	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	13.10
4 3V 1060 Q	10.60	10.55	J-3	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	15.90
4 3V 1400 Q	14.00	13.95	J-3	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	25.40
4 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.05	0.88	0.28	0.14	2.88	2.00	37.30
4 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.05	0.88	0.28	0.14	2.88	2.00	60.00
4 3V 3350 R	33.50	33.45	J-3	R1	3.75	0.05	0.88	0.28	0.14	2.88	2.00	88.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

Hi-Cap Wedge Stock MST® Sheaves 3V



Type S



Type J

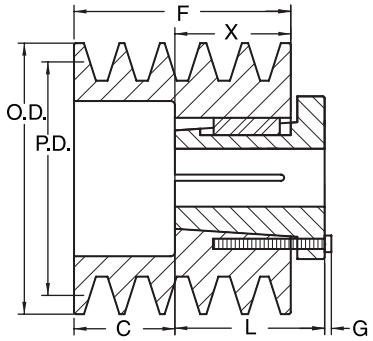
3V MST® Sheaves

5 Groove F = 2-5/16												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
5 3V 475 P	4.75	4.70	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	5.60
5 3V 500 P	5.00	4.95	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	6.00
5 3V 530 P	5.30	5.25	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	7.10
5 3V 560 P	5.60	5.55	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	8.10
5 3V 600 Q	6.00	5.95	J-2	Q1	2.69	0.00	0.75	0.28	0.56	2.50	1.75	9.50
5 3V 650 Q	6.50	6.45	J-2	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	11.60
5 3V 690 Q	6.90	6.85	J-2	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	13.90
5 3V 800 Q	8.00	7.95	J-2	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	14.30
5 3V 1060 Q	10.60	10.55	J-3	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	17.50
5 3V 1400 Q	14.00	13.95	J-3	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	27.50
5 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	40.90
5 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	64.00
5 3V 3350 R	33.50	33.45	J-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	92.00

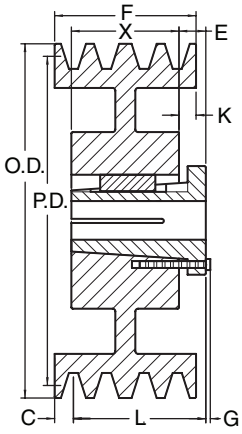
5 Groove F = 2-5/16												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
6 3V 475 Q	4.75	4.70	S-1	Q1	2.69	0.97	–	0.28	–	2.50	1.75	5.60
6 3V 500 Q	5.00	4.95	S-1	Q1	2.69	0.97	–	0.28	–	2.50	1.75	6.10
6 3V 530 Q	5.30	5.25	S-1	Q1	2.69	0.97	–	0.28	–	2.50	1.75	7.30
6 3V 560 Q	5.60	5.55	J-1	Q1	2.69	0.22	0.75	0.28	0.75	2.50	1.75	8.80
6 3V 600 Q	6.00	5.95	J-2	Q1	2.69	0.22	0.75	0.28	0.75	2.50	1.75	10.10
6 3V 650 Q	6.50	6.45	J-2	Q1	2.69	0.48	0.75	0.28	0.48	2.50	1.75	12.90
6 3V 690 Q	6.90	6.85	J-2	Q1	2.69	0.48	0.75	0.28	0.48	2.50	1.75	14.40
6 3V 800 Q	8.00	7.95	J-2	Q1	2.69	0.48	0.75	0.28	0.48	2.50	1.75	16.10
6 3V 1060 R	10.60	10.55	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	22.40
6 3V 1400 R	14.00	13.95	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	32.10
6 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	42.80
6 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	64.00
6 3V 3350 R	33.50	33.45	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	99.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

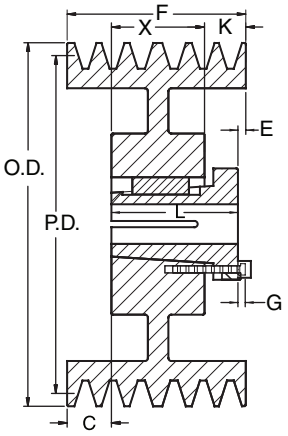
3V Hi-Cap Wedge Stock MST® Sheaves



Type S



Type J



Type K

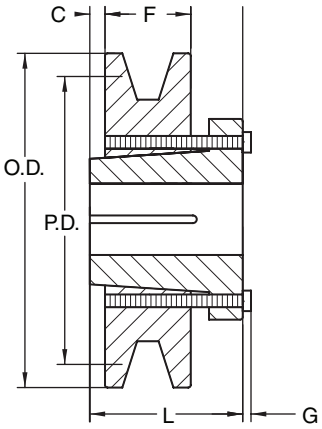
3V MST® Sheaves

8 Groove												
F = 3-17/32												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
8 3V 475 Q	4.75	4.70	S-1	Q2	2.63	0.78	0.75	0.28	–	3.50	2.75	7.30
8 3V 500 Q	5.00	4.95	S-1	Q2	2.63	0.78	0.75	0.28	–	3.50	2.75	8.60
8 3V 530 Q	5.30	5.25	S-1	Q2	2.63	0.78	0.75	0.28	–	3.50	2.75	10.30
8 3V 560 Q	5.60	5.55	K-1	Q2	2.63	–	0.75	0.28	0.78	3.50	2.75	12.30
8 3V 600 Q	6.00	5.95	K-1	Q2	2.63	–	0.75	0.28	0.78	3.50	2.75	15.10
8 3V 650 Q	6.50	6.45	J-2	Q2	2.63	0.39	0.75	0.28	0.39	3.50	2.75	18.30
8 3V 690 Q	6.90	6.85	J-2	Q2	2.63	0.39	0.75	0.28	0.39	3.50	2.75	21.40
8 3V 800 R	8.00	7.95	J-2	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	23.20
8 3V 1060 R	10.60	10.55	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	24.50
8 3V 1400 R	14.00	13.95	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	39.00
8 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	49.00
8 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	76.00
8 3V 3350 S	33.50	33.45	J-3	S1	4.25	0.11	1.06	0.38	0.11	4.38	3.31	126.00

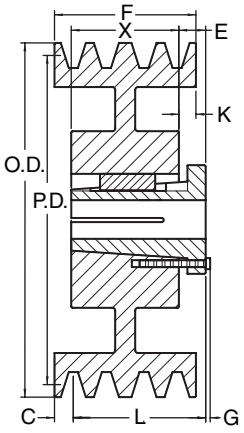
10 Groove												
F = 4-11/32												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
10 3V 475 Q	4.75	4.70	S-1	Q2	2.63	1.59	0.75	0.28	–	3.50	2.75	8.40
10 3V 500 Q	5.00	4.95	S-1	Q2	2.63	1.59	0.75	0.28	–	3.50	2.75	9.90
10 3V 530 Q	5.30	5.25	S-1	Q2	2.63	1.59	0.75	0.28	–	3.50	2.75	11.40
10 3V 560 Q	5.60	5.55	J-2	Q2	2.63	0.84	0.75	0.28	0.75	3.50	2.75	13.80
10 3V 600 Q	6.00	5.95	J-2	Q2	2.63	0.84	0.75	0.28	0.75	3.50	2.75	16.50
10 3V 650 Q	6.50	6.45	K-2	Q2	2.63	0.80	0.75	0.28	0.80	3.50	2.75	20.40
10 3V 690 Q	6.90	6.85	K-2	Q2	2.63	0.80	0.75	0.28	0.80	3.50	2.75	23.40
10 3V 800 R	8.00	7.95	K-2	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	26.00
10 3V 1060 R	10.60	10.55	K-3	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	28.40
10 3V 1400 R	14.00	13.95	K-3	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	42.30
10 3V 1900 R	19.00	18.95	K-3	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	54.00
10 3V 2500 S	25.00	24.95	J-3	S1	4.25	0.52	1.06	0.38	0.52	4.38	3.31	103.00
10 3V 3350 S	33.50	33.45	J-3	S1	4.25	0.52	1.06	0.38	0.52	4.38	3.31	138.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

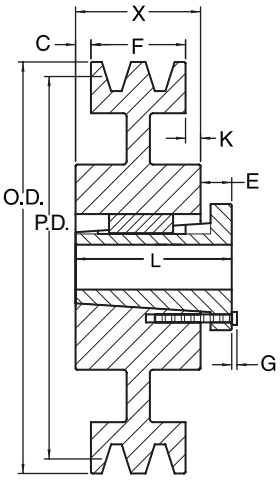
Hi-Cap Wedge Stock MST® Sheaves 5V



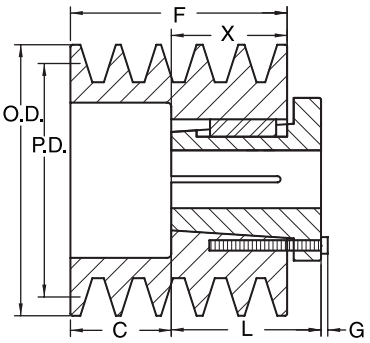
Type C



Type J



Type L



Type S

5V MST® Sheaves

2 Groove												
F = 1-11/16												
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
2 5V 440 P	4.40	4.30	J-1	P1	1.75	0.19	0.63	0.25	–	1.94	1.31	3.80
2 5V 460 Q	4.60	4.50	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	6.60
2 5V 490 Q	4.90	4.80	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	6.20
2 5V 520 Q	5.20	5.10	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	5.60
2 5V 550 Q	5.50	5.40	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	6.60
2 5V 590 Q	5.90	5.80	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	7.60
2 5V 630 Q	6.30	6.20	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	9.40
2 5V 670 Q	6.70	6.60	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	11.00
2 5V 710 Q	7.10	7.00	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	11.60
2 5V 750 Q	7.50	7.40	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	14.10
2 5V 800 Q	8.00	7.90	C-1	Q1	2.69	–	0.75	0.28	–	2.50	1.75	11.60
2 5V 850 Q	8.50	8.40	L-2	Q1	2.69	–	0.75	0.28	–	2.50	1.75	12.90
2 5V 900 Q	9.00	8.90	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	16.30
2 5V 925 Q	9.25	9.15	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	15.10
2 5V 975 Q	9.75	9.65	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	16.10
2 5V 1030 Q	10.30	10.20	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	18.80
2 5V 1090 Q	10.90	10.80	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	19.30
2 5V 1180 Q	11.80	11.70	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	21.40
2 5V 1250 Q	12.50	12.40	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	23.80
2 5V 1320 Q	13.20	13.10	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	25.50
2 5V 1400 R	14.00	13.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	27.60
2 5V 1500 R	15.00	14.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	30.90
2 5V 1600 R	16.00	15.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	33.30
2 5V 2120 R	21.20	21.10	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	47.50
2 5V 2800 R	28.00	27.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	71.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

5V Hi-Cap Wedge Stock MST® Sheaves

5V MST® Sheaves

3 Groove F = 2-3/8												
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
3 5V 440 P	4.40	4.30	S-1	P1	1.75	0.53	0.63	0.25	0.53	1.94	1.31	3.10
3 5V 460 Q	4.60	4.50	S-1	Q1	2.69	1.78	0.75	0.28	1.16	2.50	1.75	7.60
3 5V 490 Q	4.90	4.80	S-1	Q1	2.69	0.63	0.75	0.28	0.00	2.50	1.75	7.30
3 5V 520 Q	5.20	5.10	J-1	Q1	2.69	0.63	0.75	0.28	0.00	2.50	1.75	5.80
3 5V 550 Q	5.50	5.40	J-1	Q1	2.69	0.63	0.75	0.28	0.00	2.50	1.75	7.50
3 5V 590 Q	5.90	5.80	J-1	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	8.60
3 5V 630 Q	6.30	6.20	J-1	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	10.30
3 5V 670 Q	6.70	6.60	J-2	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	12.00
3 5V 710 Q	7.10	7.00	J-2	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	13.90
3 5V 750 Q	7.50	7.40	J-2	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	16.00
3 5V 800 R	8.00	7.90	J-1	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	17.20
3 5V 850 R	8.50	8.40	J-1	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	20.50
3 5V 900 R	9.00	8.90	J-1	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	22.20
3 5V 925 R	9.25	9.15	L-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	24.10
3 5V 975 R	9.75	9.65	L-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	24.80
3 5V 1030 R	10.30	10.20	J-2	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	26.40
3 5V 1090 R	10.90	10.80	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	28.00
3 5V 1180 R	11.80	11.70	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	31.90
3 5V 1250 R	12.50	12.40	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	35.10
3 5V 1320 R	13.20	13.10	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	29.00
3 5V 1400 R	14.00	13.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	32.30
3 5V 1500 R	15.00	14.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	35.00
3 5V 1600 R	16.00	15.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	38.70
3 5V 2120 R	21.20	21.10	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	52.00
3 5V 2800 R	28.00	27.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	80.00
3 5V 3750 S	37.50	37.40	L-3	S1	4.25	0.19	1.06	0.38	1.13	4.38	3.31	147.00
3 5V 5000 U	50.00	49.90	L-3	U0	5.50	0.69	1.19	0.47	2.06	4.94	3.75	216.00

4 Groove F = 3-1/16												
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
4 5V 440 P	4.40	4.30	S-1	P1	1.75	0.88	0.63	0.25	0.87	1.94	1.31	3.20
4 5V 465 Q	4.60	4.50	S-1	Q2	2.63	1.47	0.75	0.28	1.16	3.50	2.75	8.60
4 5V 490 Q	4.90	4.80	S-1	Q1	2.69	1.31	0.75	0.28	–	2.50	1.75	8.50
4 5V 520 Q	5.20	5.10	J-1	Q1	2.69	1.31	0.75	0.28	–	2.50	1.75	7.80
4 5V 550 Q	5.50	5.40	J-1	Q1	2.69	1.31	0.75	0.28	–	2.50	1.75	8.30
4 5V 590 Q	5.90	5.80	J-1	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	10.10
4 5V 630 Q	6.30	6.20	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	11.80
4 5V 670 Q	6.70	6.60	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	13.60
4 5V 710 Q	7.10	7.00	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	15.90
4 5V 750 Q	7.50	7.40	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	18.40
4 5V 800 R	8.00	7.90	J-1	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	19.40
4 5V 850 R	8.50	8.40	J-1	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	22.80
4 5V 900 R	9.00	8.90	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	24.50
4 5V 925 R	9.25	9.15	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	26.60
4 5V 975 R	9.75	9.65	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	28.00
4 5V 1030 R	10.30	10.20	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	30.80
4 5V 1090 R	10.90	10.80	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	31.70
4 5V 1180 R	11.80	11.70	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	35.30
4 5V 1250 R	12.50	12.40	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	37.90
4 5V 1320 R	13.20	13.10	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	33.30
4 5V 1400 R	14.00	13.90	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	36.50
4 5V 1500 R	15.00	14.90	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	40.90
4 5V 1600 R	16.00	15.90	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	43.30
4 5V 2120 R	21.20	21.10	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	59.00
4 5V 2800 S	28.00	27.90	L-3	S1	4.25	0.13	1.06	0.38	0.38	4.38	3.31	135.00
4 5V 3750 S	37.50	37.40	L-3	S1	4.25	0.13	1.06	0.38	0.38	4.38	3.31	157.00
4 5V 5000 Q	50.00	49.90	L-3	Q1	2.69	0.34	0.75	0.28	0.97	2.50	1.75	239.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

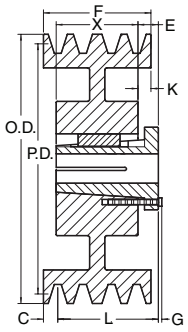
5V MST® Sheaves

5 Groove												
F = 3-3/4												
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
5 5V 465 Q	4.60	4.50	S-1	Q2	2.63	2.31	0.75	0.28	1.31	3.50	2.75	8.90
5 5V 490 Q	4.90	4.80	S-1	Q2	2.63	1.00	0.75	0.28	0.00	3.50	2.75	9.20
5 5V 520 Q	5.20	5.10	J-1	Q2	2.63	1.00	0.75	0.28	0.00	3.50	2.75	9.00
5 5V 550 Q	5.50	5.40	J-1	Q2	2.63	1.00	0.75	0.28	0.00	3.50	2.75	10.80
5 5V 590 Q	5.90	5.80	J-1	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	13.20
5 5V 630 Q	6.30	6.20	J-2	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	15.90
5 5V 670 Q	6.70	6.60	J-2	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	18.60
5 5V 710 Q	7.10	7.00	K-1	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	22.00
5 5V 750 Q	7.50	7.40	K-1	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	25.00
5 5V 800 R	8.00	7.90	K-1	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	21.70
5 5V 850 R	8.50	8.40	J-1	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	25.10
5 5V 900 R	9.00	8.90	J-1	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	25.40
5 5V 925 R	9.25	9.15	J-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	28.40
5 5V 975 R	9.75	9.65	J-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	31.80
5 5V 1030 R	10.30	10.20	J-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	32.50
5 5V 1090 R	10.90	10.80	K-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	35.10
5 5V 1180 R	11.80	11.70	J-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	38.80
5 5V 1250 R	12.50	12.40	J-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	41.80
5 5V 1320 R	13.20	13.10	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	37.10
5 5V 1400 R	14.00	13.90	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	41.60
5 5V 1500 R	15.00	14.90	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	45.00
5 5V 1600 R	16.00	15.90	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	48.00
5 5V 2120 S	21.20	21.10	J-3	S1	4.25	0.22	1.06	0.38	0.22	4.38	3.31	90.00
5 5V 2500 S	25.00	24.90	J-3	S1	4.25	0.22	1.06	0.38	0.22	4.38	3.31	105.00
5 5V 2800 S	28.00	27.90	J-3	S1	4.25	0.22	1.06	0.38	0.22	4.38	3.31	120.00
5 5V 3750 U	37.50	37.40	K-2	U0	5.50	0.00	1.19	0.47	0.00	4.94	3.75	185.00
5 5V 5000 U	50.00	49.90	J-1	U0	5.50	0.00	1.19	0.47	0.00	4.94	3.75	244.00

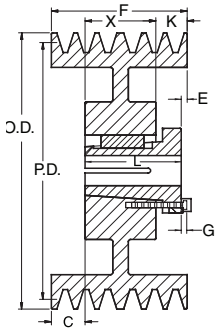
6 Groove												
F = 4-7/16												
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
6 5V 710 Q	7.10	7.00	J-2	Q2	2.63	0.44	0.28	0.75	1.25	3.50	2.75	23.60
6 5V 750 Q	7.50	7.40	J-2	Q2	2.63	0.44	0.28	0.75	1.25	3.50	2.75	27.30
6 5V 800 R	8.00	7.90	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	23.30
6 5V 850 R	8.50	8.40	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	27.30
6 5V 900 R	9.00	8.90	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	28.80
6 5V 925 R	9.25	9.15	J-1	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	31.10
6 5V 975 R	9.75	9.65	J-3	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	34.50
6 5V 1030 R	10.30	10.20	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	36.80
6 5V 1090 R	10.90	10.80	J-1	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	39.60
6 5V 1180 R	11.80	11.70	J-1	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	42.50
6 5V 1250 S	12.50	12.40	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	65.00
6 5V 1320 S	13.20	13.10	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	71.00
6 5V 1400 S	14.00	13.90	J-2	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	70.00
6 5V 1500 S	15.00	14.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	69.00
6 5V 1600 S	16.00	15.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	79.00
6 5V 2120 S	21.20	21.10	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	97.00
6 5V 2500 S	25.00	24.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	113.00
6 5V 2800 S	28.00	27.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	128.00
6 5V 3750 U	37.50	37.40	K-2	U0	5.50	0.34	0.47	1.19	0.34	4.94	3.75	206.00
6 5V 5000 U	50.00	49.90	K-2	U0	5.50	0.34	0.47	1.19	0.34	4.94	3.75	271.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

5V Hi-Cap Wedge Stock MST® Sheaves



Type J



Type K

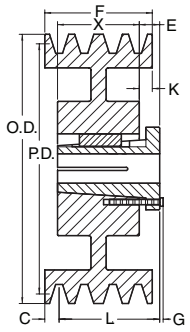
5V MST® Sheaves

8 Groove F = 5-13/16												
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
8 5V 710 Q	7.10	7.00	K-2	Q2	2.63	1.31	0.75	0.28	1.75	3.50	2.75	28.00
8 5V 750 Q	7.50	7.40	K-2	Q2	2.63	1.31	0.75	0.28	1.75	3.50	2.75	32.00
8 5V 800 R	8.00	7.90	K-2	R2	3.63	0.91	0.88	0.28	0.91	4.88	4.00	45.30
8 5V 850 R	8.50	8.40	K-2	R2	3.63	0.91	0.88	0.28	0.91	4.88	4.00	45.50
8 5V 900 R	9.00	8.90	K-2	R2	3.63	0.91	0.88	0.28	0.91	4.88	4.00	50.00
8 5V 925 S	9.25	9.15	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	47.30
8 5V 975 S	9.75	9.65	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	50.00
8 5V 1030 S	10.30	10.20	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	63.00
8 5V 1090 S	10.90	10.80	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	71.00
8 5V 1180 S	11.80	11.70	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	85.00
8 5V 1250 S	12.50	12.40	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	76.00
8 5V 1320 S	13.20	13.10	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	79.00
8 5V 1400 S	14.00	13.90	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	77.00
8 5V 1500 S	15.00	14.90	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	83.00
8 5V 1600 S	16.00	15.90	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	90.00
8 5V 2120 U	21.20	21.10	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	175.00
8 5V 2500 U	25.00	24.90	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	190.00
8 5V 2800 U	28.00	27.90	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	222.00
8 5V 3750 U	37.50	37.40	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	264.00
8 5V 5000 U	50.00	49.90	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	393.00

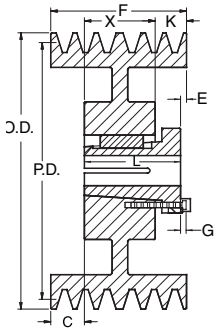
10 Groove F = 7-5/16												
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
10 5V 800 R	8.00	7.90	K-2	R2	3.63	1.59	0.88	0.28	1.59	4.88	4.00	43.80
10 5V 850 R	8.50	8.40	K-2	R2	3.63	1.59	0.88	0.28	1.59	4.88	4.00	53.00
10 5V 900 R	9.00	8.90	K-2	R2	3.63	1.59	0.88	0.28	1.59	4.88	4.00	59.00
10 5V 925 S	9.25	9.15	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	53.00
10 5V 975 S	9.75	9.65	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	60.00
10 5V 1030 S	10.30	10.20	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	69.00
10 5V 1090 S	10.90	10.80	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	78.00
10 5V 1180 S	11.80	11.70	J-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	93.00
10 5V 1250 U	12.50	12.40	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	132.00
10 5V 1320 U	13.20	13.10	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	151.00
10 5V 1400 U	14.00	13.90	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	177.00
10 5V 1500 U	15.00	14.90	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	164.00
10 5V 1600 U	16.00	15.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	138.00
10 5V 2120 U	21.20	21.10	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	188.00
10 5V 2500 U	25.00	24.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	213.00
10 5V 2800 U	28.00	27.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	238.00
10 5V 3750 U	37.50	37.40	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	293.00
10 5V 5000 U	50.00	49.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	428.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

Hi-Cap Wedge Stock MST® Sheaves 8V



Type J



Type K

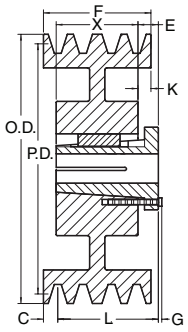
8V MST® Sheaves

4 Groove F = 4-7/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
4 8V 1250 S	12.50	12.30	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	94.00
4 8V 1320 S	13.20	13.00	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	99.00
4 8V 1400 S	14.00	13.80	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	114.00
4 8V 1500 S	15.00	14.80	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	107.00
4 8V 1600 S	16.00	15.80	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	113.00
4 8V 1700 S	17.00	16.80	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	115.00
4 8V 1800 S	18.00	17.80	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	123.00
4 8V 1900 S	19.00	18.80	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	132.00
4 8V 2000 S	20.00	19.80	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	147.00
4 8V 2120 S	21.20	21.00	K-2	S1	4.25	–	1.06	0.38	1.56	4.38	3.31	159.00
4 8V 2240 U	22.40	22.20	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	159.00
4 8V 3000 U	30.00	29.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	218.00
4 8V 4000 U	40.00	39.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	296.00
4 8V 4800 U	48.00	47.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	405.00
4 8V 5300 U	53.00	52.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	450.00
4 8V 5800 U	58.00	57.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	495.00
4 8V 6400 U	64.00	63.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	520.00

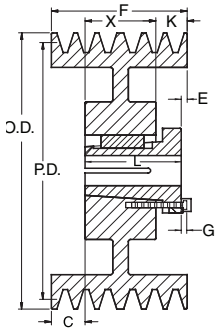
5 Groove F = 6												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
5 8V 1250 S	12.50	12.30	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	100.00
5 8V 1320 S	13.20	13.00	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	109.00
5 8V 1400 S	14.00	13.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	127.00
5 8V 1500 S	15.00	14.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	120.00
5 8V 1600 S	16.00	15.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	121.00
5 8V 1700 S	17.00	16.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	133.00
5 8V 1800 S	18.00	17.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	140.00
5 8V 1900 S	19.00	18.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	158.00
5 8V 2000 S	20.00	19.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	166.00
5 8V 2120 S	21.20	21.00	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	174.00
5 8V 2240 U	22.40	22.20	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	157.00
5 8V 3000 U	30.00	29.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	243.00
5 8V 4000 U	40.00	39.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	325.00
5 8V 4800 U	48.00	47.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	440.00
5 8V 5300 U	53.00	52.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	480.00
5 8V 5800 U	58.00	57.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	525.00
5 8V 6400 U	64.00	63.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	555.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

8V Hi-Cap Wedge Stock MST® Sheaves



Type J



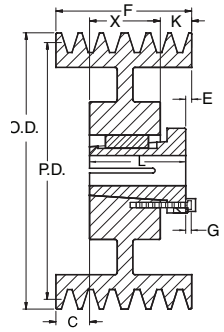
Type K

8V MST® Sheaves

6 Groove F = 7-1/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
6 8V 1250 S	12.50	12.30	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	109.00
6 8V 1320 S	13.20	13.00	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	119.00
6 8V 1400 S	14.00	13.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	135.00
6 8V 1500 S	15.00	14.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	129.00
6 8V 1600 S	16.00	15.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	133.00
6 8V 1700 S	17.00	16.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	147.00
6 8V 1800 S	18.00	17.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	154.00
6 8V 1900 S	19.00	18.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	167.00
6 8V 2000 S	20.00	19.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	178.00
6 8V 2120 S	21.20	21.00	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	186.00
6 8V 2240 U	22.40	22.20	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	195.00
6 8V 3000 U	30.00	29.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	263.00
6 8V 4000 U	40.00	39.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	363.00
6 8V 4800 U	48.00	47.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	478.00
6 8V 5300 U	53.00	52.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	510.00
6 8V 5800 U	58.00	57.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	555.00
6 8V 6400 U	64.00	63.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	585.00

8 Groove F = 9-3/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
8 8V 1250 S	12.50	12.30	K-3	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	140.00
8 8V 1320 S	13.20	13.00	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	176.00
8 8V 1400 S	14.00	13.80	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	205.00
8 8V 1500 S	15.00	14.80	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	186.00
8 8V 1600 S	16.00	15.80	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	210.00
8 8V 1700 U	17.00	16.80	K-3	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	248.00
8 8V 1800 U	18.00	17.80	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	249.00
8 8V 1900 U	19.00	18.80	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	235.00
8 8V 2000 U	20.00	19.80	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	251.00
8 8V 2120 U	21.20	21.00	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	268.00
8 8V 2240 U	22.40	22.20	K-2	U1	5.50	1.88	1.50	0.47	1.88	7.13	5.63	253.00
8 8V 3000 U	30.00	29.80	K-3	U1	5.50	1.88	1.50	0.47	1.88	7.13	5.63	358.00
8 8V 4000 W	40.00	39.80	K-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	567.00
8 8V 4800 W	48.00	47.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	715.00
8 8V 5300 W	53.00	52.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	762.00
8 8V 5800 W	58.00	57.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	914.00
8 8V 6400 W	64.00	63.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	970.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked



Type K

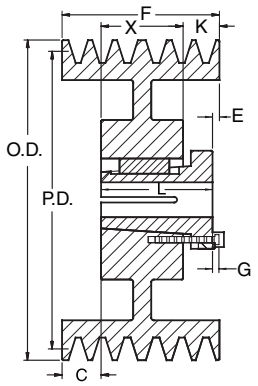
8V MST® Sheaves

10 Groove F = 11-5/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
10 8V 1250 U	12.50	12.30	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	156.00
10 8V 1320 U	13.20	13.00	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	182.00
10 8V 1400 U	14.00	13.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	207.00
10 8V 1500 U	15.00	14.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	240.00
10 8V 1600 U	16.00	15.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	283.00
10 8V 1700 U	17.00	16.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	274.00
10 8V 1800 U	18.00	17.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	282.00
10 8V 1900 U	19.00	18.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	264.00
10 8V 2000 U	20.00	19.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	279.00
10 8V 2120 U	21.20	21.00	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	296.00
10 8V 2240 U	22.40	22.20	K-3	U1	5.50	3.00	1.50	0.47	3.00	7.13	5.63	309.00
10 8V 3000 U	30.00	29.80	K-3	U1	5.50	3.00	1.50	0.47	3.00	7.13	5.63	410.00
10 8V 4000 W	40.00	39.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	625.00
10 8V 4800 W	48.00	47.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	811.00
10 8V 5300 W	53.00	52.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	955.00
10 8V 5800 W	58.00	57.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	1060.00
10 8V 6400 W	64.00	63.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	1170.00

12 Groove F = 13-7/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
12 8V 1250 U	12.50	12.30	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	200.00
12 8V 1320 U	13.20	13.00	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	243.00
12 8V 1400 U	14.00	13.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	282.00
12 8V 1500 U	15.00	14.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	331.00
12 8V 1600 U	16.00	15.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	387.00
12 8V 1700 U	17.00	16.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	395.00
12 8V 1800 U	18.00	17.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	408.00
12 8V 1900 U	19.00	18.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	435.00
12 8V 2000 U	20.00	19.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	428.00
12 8V 2120 U	21.20	21.00	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	450.00
12 8V 2240 U	22.40	22.20	K-3	U2	5.00	2.63	1.50	0.47	2.63	1.06	8.63	421.00
12 8V 3000 U	30.00	29.80	K-3	U2	5.00	2.63	1.50	0.47	2.63	1.06	8.63	509.00
12 8V 4000 W	40.00	39.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	764.00
12 8V 4800 W	48.00	47.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1000.00
12 8V 5300 W	53.00	52.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1160.00
12 8V 5800 W	58.00	57.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1330.00
12 8V 6400 W	64.00	63.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1460.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

8V Hi-Cap Wedge Stock MST® Sheaves



Type K

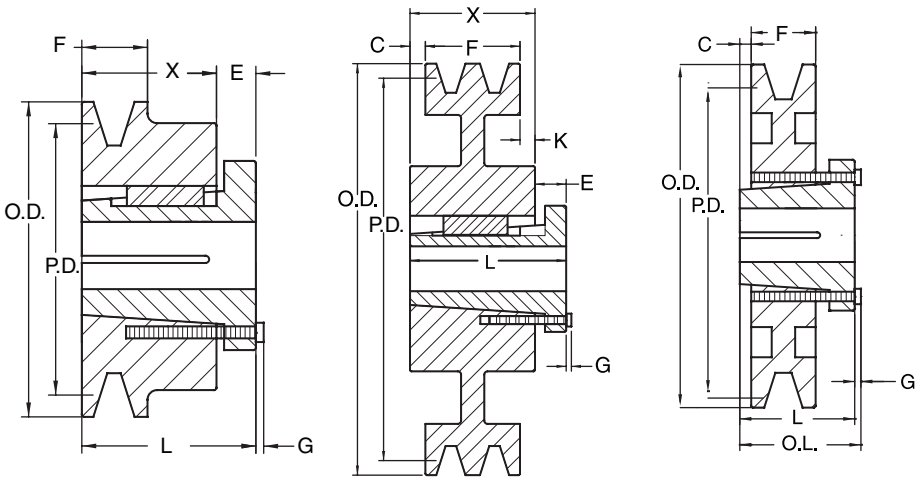
8V MST® Sheaves

14 Groove F = 16-1/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
14 8V 1250 U	12.50	12.30	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	220.00
14 8V 1320 U	13.20	13.00	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	261.00
14 8V 1400 U	14.00	13.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	300.00
14 8V 1500 U	15.00	14.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	370.00
14 8V 1600 U	16.00	15.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	415.00
14 8V 1700 U	17.00	16.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	440.00
14 8V 1800 U	18.00	17.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	450.00
14 8V 1900 U	19.00	18.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	470.00
14 8V 2000 U	20.00	19.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	490.00
14 8V 2120 U	21.20	21.00	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	510.00
14 8V 2240 U	22.40	22.20	K-3	U2	5.00	3.75	1.50	0.47	3.75	1.06	8.63	459.00
14 8V 3000 U	30.00	29.80	K-3	U2	5.00	3.75	1.50	0.47	3.75	1.06	8.63	710.00
14 8V 4000 W	40.00	39.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	840.00
14 8V 4800 W	48.00	47.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1140.00
14 8V 5300 W	53.00	52.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1234.00
14 8V 5800 W	58.00	57.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1450.00
14 8V 6400 W	64.00	63.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1550.00

16 Groove F = 18-3/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
16 8V 1250 U	12.50	12.30	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	270.00
16 8V 1320 U	13.20	13.00	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	280.00
16 8V 1400 U	14.00	13.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	323.00
16 8V 1500 U	15.00	14.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	430.00
16 8V 1600 U	16.00	15.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	445.00
16 8V 1700 U	17.00	16.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	447.00
16 8V 1800 U	18.00	17.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	480.00
16 8V 1900 U	19.00	18.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	494.00
16 8V 2000 U	20.00	19.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	520.00
16 8V 2120 U	21.20	21.00	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	538.00
16 8V 2240 U	22.40	22.20	K-3	U2	5.00	4.88	1.50	0.47	4.88	1.06	8.63	522.00
16 8V 3000 W	30.00	29.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	990.00
16 8V 4000 W	40.00	39.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	871.00
16 8V 4800 W	48.00	47.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1360.00
16 8V 5300 W	53.00	52.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1490.00
16 8V 5800 W	58.00	57.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1620.00
16 8V 6400 W	64.00	63.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1790.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

Combination Groove Conventional MST® Bushed Stock Sheaves A-B



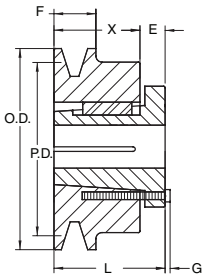
Type G **Type L** **Type M**

A-B MST® Sheaves

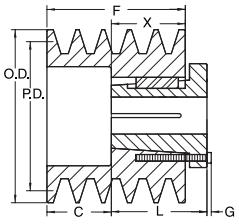
1 Groove													
F = 1													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
1 B 34 P	3.75	3.00	3.40	G-1	P1	1.75	0.13	0.63	0.25	0.44	1.94	1.31	2.00
1 B 36 P	3.95	3.20	3.60	G-1	P1	1.75	0.13	0.63	0.25	0.44	1.94	1.31	2.30
1 B 38 P	4.15	3.40	3.80	G-1	P1	1.75	0.13	0.63	0.25	0.44	1.94	1.31	2.60
1 B 40 P	4.35	3.60	4.00	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	2.10
1 B 42 P	4.55	3.80	4.20	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	2.40
1 B 44 P	4.75	4.00	4.40	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	2.80
1 B 46 P	4.95	4.20	4.60	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	3.10
1 B 48 P	5.15	4.40	4.80	M-1	P1	1.75	0.31	–	0.25	0.66	1.94	1.31	3.50
1 B 50 P	5.35	4.60	5.00	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	3.90
1 B 52 P	5.55	4.80	5.20	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	4.10
1 B 54 P	5.75	5.00	5.40	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	4.60
1 B 56 P	5.95	5.20	5.60	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	5.10
1 B 58 P	6.15	5.40	5.80	M-1	P1	1.75	0.31	–	0.25	0.65	1.94	1.31	5.60
1 B 60 P	6.35	5.60	6.00	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	6.00
1 B 62 P	6.55	5.80	6.20	M-2	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	5.50
1 B 64 P	6.75	6.00	6.40	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	5.80
1 B 66 P	6.95	6.20	6.60	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	5.90
1 B 68 P	7.15	6.40	6.80	M-1	P1	1.75	0.31	–	0.25	0.63	1.94	1.31	6.10
1 B 70 P	7.35	6.60	7.00	L-1	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	6.40
1 B 74 P	7.75	7.00	7.40	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	7.30
1 B 80 P	8.35	7.60	8.00	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	7.80
1 B 86 P	8.95	8.20	8.60	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	8.60
1 B 90 P	9.35	8.60	9.00	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	8.90
1 B 94 P	9.75	9.00	9.40	L-3	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	9.10
1 B 110 P	11.35	10.60	11.00	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	11.10
1 B 124 Q	12.75	12.00	12.40	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	17.80
1 B 136 Q	13.95	13.20	13.60	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	18.20
1 B 154 Q	15.75	15.00	15.40	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	20.30
1 B 160 Q	16.35	15.60	16.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	22.00
1 B 184 Q	18.75	18.00	18.40	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	27.50
1 B 200 Q	20.35	19.50	20.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	27.20
1 B 250 Q	25.35	24.50	25.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	42.40
1 B 300 Q	30.35	29.50	30.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	56.00
1 B 380 Q	38.35	37.50	38.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	78.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

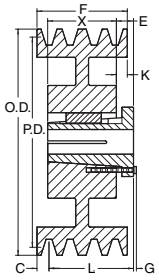
A-B Combination Groove Conventional MST® Bushed Stock Sheaves



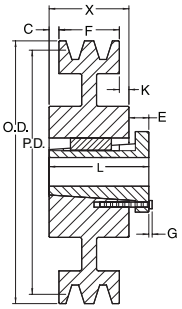
Type G



Type S



Type J



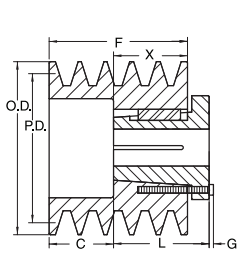
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A-B MST® Sheaves

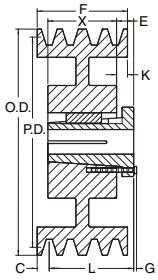
2 Groove F = 1-3/4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
2 B 34 P	3.75	3.00	3.40	G-1	P1	1.75	0.88	0.63	0.25	1.31	1.31	2.19	2.90
2 B 36 P	3.95	3.20	3.60	G-1	P1	1.75	0.88	0.63	0.25	1.31	1.94	2.19	3.80
2 B 38 P	4.15	3.40	3.80	S-1	P1	1.75	0.44	–	0.25	–	1.31	1.31	3.00
2 B 40 P	4.35	3.60	4.00	S-1	P1	1.75	0.44	–	0.25	–	1.31	1.31	3.80
2 B 42 P	4.55	3.80	4.20	S-1	P1	1.75	0.44	–	0.25	–	1.94	1.31	3.90
2 B 44 P	4.75	4.00	4.40	J-1	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	3.90
2 B 46 P	4.95	4.20	4.60	J-1	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	4.50
2 B 48 P	5.15	4.40	4.80	J-1	P1	1.75	–	0.63	0.25	0.44	1.94	1.31	5.30
2 B 50 P	5.35	4.60	5.00	J-1	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	5.60
2 B 52 P	5.55	4.80	5.20	J-1	P1	1.75	–	0.63	0.25	0.44	1.94	1.31	6.10
2 B 54 P	5.75	5.00	5.40	J-1	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	6.50
2 B 54 Q	5.75	5.00	5.40	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	6.00
2 B 56 P	5.95	5.20	5.60	J-1	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	7.40
2 B 56 Q	5.95	5.20	5.60	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	7.30
2 B 58 P	6.15	5.40	5.80	J-1	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	8.00
2 B 58 Q	6.15	5.40	5.80	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	7.90
2 B 60 P	6.35	5.60	6.00	J-1	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	8.90
2 B 60 Q	6.35	5.60	6.00	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	8.90
2 B 62 P	6.55	5.80	6.20	J-2	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	7.60
2 B 62 Q	6.55	5.80	6.20	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	9.40
2 B 64 P	6.75	6.00	6.40	J-2	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	7.80
2 B 64 Q	6.75	6.00	6.40	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	10.10
2 B 66 P	6.95	6.20	6.60	J-2	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	8.30
2 B 66 Q	6.95	6.20	6.60	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	11.10
2 B 68 P	7.15	6.40	6.80	J-2	P1	1.75	–	0.63	0.25	0.44	1.31	1.31	8.80
2 B 68 Q	7.15	6.40	6.80	S-1	Q1	2.69	–	0.63	0.28	–	2.50	1.75	12.30
2 B 70 Q	7.35	6.60	7.00	J-2	Q1	2.69	–	0.75	0.28	–	1.75	1.75	11.10
2 B 74 Q	7.75	7.00	7.40	J-2	Q1	2.69	–	0.75	0.28	–	2.50	1.75	11.50
2 B 80 Q	8.35	7.60	8.00	J-2	Q1	2.69	–	0.75	0.28	–	1.75	1.75	12.80
2 B 86 Q	8.95	8.20	8.60	J-2	Q1	2.69	–	0.75	0.28	–	2.50	1.75	16.00
2 B 90 Q	9.35	8.60	9.00	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	15.10
2 B 94 Q	9.75	9.00	9.40	J-3	Q1	2.69	–	0.75	0.28	–	2.50	1.75	15.50
2 B 110 Q	11.35	10.60	11.00	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	18.90
2 B 124 Q	12.75	12.00	12.40	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	21.10
2 B 136 Q	13.95	13.20	13.60	J-3	Q1	2.69	–	0.75	0.28	–	2.50	1.75	23.00
2 B 154 Q	15.75	15.00	15.40	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	24.80
2 B 154 R	15.75	15.00	15.40	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	30.60
2 B 160 Q	16.35	15.60	16.00	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	27.00
2 B 160 R	16.35	15.60	16.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	32.00
2 B 184 Q	18.75	18.00	18.40	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	32.30
2 B 184 R	18.75	18.00	18.40	L-3	R1	3.75	0.13	0.75	0.28	0.38	2.88	2.00	39.10
2 B 200 Q	20.35	19.50	20.00	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	42.30
2 B 200 R	20.35	19.50	20.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	43.50
2 B 250 Q	25.35	24.50	25.00	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	50.30
2 B 250 R	25.35	24.50	25.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	58.00
2 B 300 Q	30.35	29.50	30.00	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	68.80
2 B 300 R	30.35	29.50	30.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	81.00
2 B 380 Q	38.35	37.50	38.00	J-3	Q1	2.69	–	0.75	0.28	–	1.75	1.75	95.50
2 B 380 R	38.35	37.50	38.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	92.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

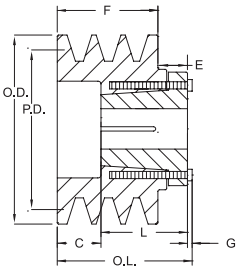
Combination Groove Conventional MST® Bushed Stock Sheaves A-B



Type S



Type J



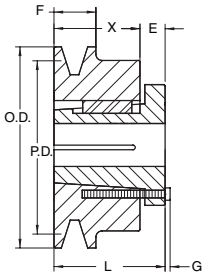
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A-B MST® Sheaves

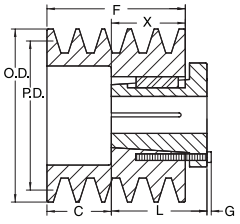
3 Groove F = 2-1/2													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
3 B 34 P	3.75	3.00	3.40	G-1	P2	1.75	0.63	0.63	0.25	0.44	2.94	2.31	3.80
3 B 36 P	3.95	3.20	3.60	N-1	P2	1.75	0.63	0.63	0.25	0.44	2.31	2.31	4.40
3 B 38 P	4.15	3.40	3.80	S-1	P1	1.75	1.19	–	0.25	–	1.94	1.31	3.80
3 B 40 P	4.35	3.60	4.00	S-1	P1	1.75	1.19	–	0.25	–	1.94	1.31	4.50
3 B 42 P	4.55	3.80	4.20	S-1	P1	1.75	1.19	–	0.25	–	1.31	1.31	4.90
3 B 44 P	4.75	4.00	4.40	J-1	P1	1.75	0.56	0.63	0.25	0.63	1.94	1.31	5.10
3 B 46 P	4.95	4.20	4.60	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	6.00
3 B 48 P	5.15	4.40	4.80	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.94	1.31	6.30
3 B 50 P	5.35	4.60	5.00	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	6.90
3 B 52 P	5.55	4.80	5.20	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.94	1.31	7.50
3 B 54 P	5.75	5.00	5.40	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	8.30
3 B 54 Q	5.75	5.00	5.40	S-1	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	7.90
3 B 56 P	5.95	5.20	5.60	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.00
3 B 56 Q	5.95	5.20	5.60	S-1	Q1	2.69	0.75	0.63	0.28	–	2.50	1.75	9.00
3 B 58 P	6.15	5.40	5.80	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.60
3 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	9.40
3 B 60 P	6.35	5.60	6.00	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	10.50
3 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	0.38	0.63	0.28	0.38	2.50	1.75	10.40
3 B 62 P	6.55	5.80	6.20	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.40
3 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	11.30
3 B 64 P	6.75	6.00	6.40	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.50
3 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	0.38	0.63	0.28	0.38	2.50	1.75	12.10
3 B 66 P	6.95	6.20	6.60	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	10.00
3 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	13.00
3 B 68 P	7.15	6.40	6.80	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	10.40
3 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	14.30
3 B 70 Q	7.35	6.60	7.00	J-2	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	13.00
3 B 74 Q	7.75	7.00	7.40	J-2	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	0.00
3 B 80 Q	8.35	7.60	8.00	J-2	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	15.30
3 B 86 Q	8.95	8.20	8.60	J-2	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	0.00
3 B 90 Q	9.35	8.60	9.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	18.10
3 B 94 Q	9.75	9.00	9.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	0.00
3 B 110 Q	11.35	10.60	11.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	21.30
3 B 124 Q	12.75	12.00	12.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	25.40
3 B 136 Q	13.95	13.20	13.60	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	27.40
3 B 154 Q	15.75	15.00	15.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	29.80
3 B 154 R	15.75	15.00	15.40	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	35.50
3 B 160 Q	16.35	15.60	16.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	32.00
3 B 160 R	16.35	15.60	16.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	38.00
3 B 184 Q	18.75	18.00	18.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	37.80
3 B 184 R	18.75	18.00	18.40	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	44.80
3 B 200 Q	20.35	19.50	20.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	49.90
3 B 200 R	20.35	19.50	20.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	50.30
3 B 250 Q	25.35	24.50	25.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	61.00
3 B 250 R	25.35	24.50	25.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	65.00
3 B 300 Q	30.35	29.50	30.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	78.50
3 B 300 R	30.35	29.50	30.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	89.00
3 B 380 Q	38.35	37.50	38.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	110.00
3 B 380 R	38.35	37.50	38.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	106.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

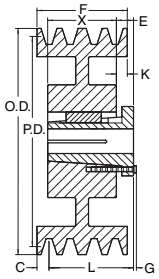
A-B Combination Groove Conventional MST® Bushed Stock Sheaves



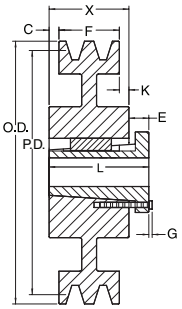
Type G



Type S



Type J



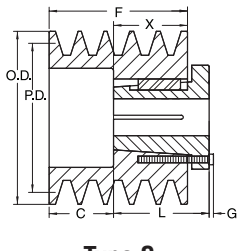
Type L

A-B MST® Sheaves

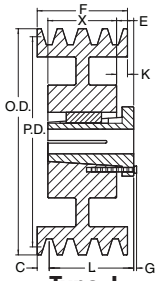
4 Groove F = 3-1/4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
4 B 34 P	3.75	3.00	3.40	G-1	P2	1.75	1.38	0.63	0.25	0.44	2.94	2.31	4.50
4 B 36 P	3.95	3.20	3.60	N-1	P2	1.75	1.38	0.63	0.25	0.44	2.31	2.31	5.30
4 B 38 P	4.15	3.40	3.80	S-1	P1	1.75	1.94	–	0.25	–	1.94	1.31	4.80
4 B 40 P	4.35	3.60	4.00	J-2	P1	1.75	1.94	–	0.25	–	1.94	1.31	5.50
4 B 42 P	4.55	3.80	4.20	S-1	P1	1.75	1.94	–	0.25	–	1.31	1.31	5.90
4 B 44 P	4.75	4.00	4.40	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.94	1.31	6.50
4 B 46 P	4.95	4.20	4.60	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	7.10
4 B 48 P	5.15	4.40	4.80	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.94	1.31	7.50
4 B 50 P	5.35	4.60	5.00	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	8.30
4 B 52 P	5.55	4.80	5.20	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.94	1.31	9.10
4 B 54 P	5.75	5.00	5.40	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	9.60
4 B 54 Q	5.75	5.00	5.40	S-1	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	9.30
4 B 56 P	5.95	5.20	5.60	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	10.60
4 B 56 Q	5.95	5.20	5.60	S-1	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	10.50
4 B 58 P	6.15	5.40	5.80	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.60
4 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	11.50
4 B 60 P	6.35	5.60	6.00	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.90
4 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	12.60
4 B 62 P	6.55	5.80	6.20	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.10
4 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	12.60
4 B 64 P	6.75	6.00	6.40	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.80
4 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	14.10
4 B 66 P	6.95	6.20	6.60	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	12.00
4 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	14.80
4 B 68 P	7.15	6.40	6.80	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	12.50
4 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	16.90
4 B 70 Q	7.35	6.60	7.00	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	15.30
4 B 74 Q	7.75	7.00	7.40	J-2	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	15.30
4 B 80 Q	8.35	7.60	8.00	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	17.00
4 B 86 Q	8.95	8.20	8.60	J-2	P1	1.75	0.75	0.75	0.25	0.75	1.31	1.75	20.80
4 B 90 Q	9.35	8.60	9.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	20.60
4 B 94 Q	9.75	9.00	9.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	20.10
4 B 110 Q	11.35	10.60	11.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	25.80
4 B 124 Q	12.75	12.00	12.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	27.50
4 B 136 Q	13.95	13.20	13.60	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	31.50
4 B 154 Q	15.75	15.00	15.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	36.00
4 B 154 R	15.75	15.00	15.40	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	40.10
4 B 160 Q	16.35	15.60	16.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	39.00
4 B 160 R	16.35	15.60	16.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	44.00
4 B 184 Q	18.75	18.00	18.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	44.80
4 B 184 R	18.75	18.00	18.40	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	50.30
4 B 200 Q	20.35	19.50	20.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	57.00
4 B 200 R	20.35	19.50	20.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	54.00
4 B 250 Q	25.35	24.50	25.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	69.50
4 B 250 R	25.35	24.50	25.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	71.00
4 B 300 Q	30.35	29.50	30.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	90.80
4 B 300 R	30.35	29.50	30.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	99.00
4 B 380 Q	38.35	37.50	38.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	125.00
4 B 380 R	38.35	37.50	38.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	126.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

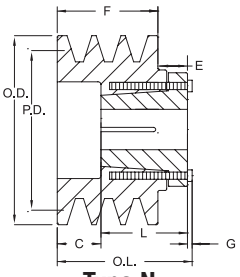
Combination Groove Conventional MST® Bushed Stock Sheaves A-B



Type S



Type J



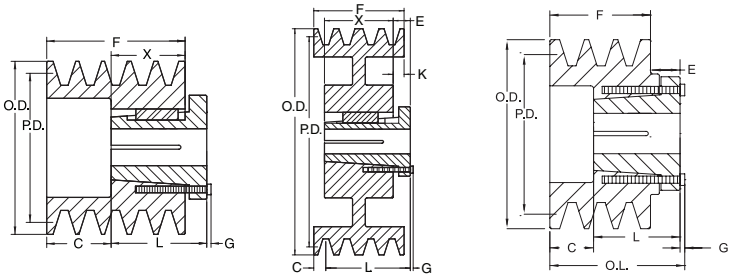
Type N

A-B MST® Sheaves

5 Groove F = 4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
5 B 34 P	3.75	3.00	3.40	N-1	P2	1.75	2.13	0.63	0.25	0.44	2.31	2.31	5.30
5 B 36 P	3.95	3.20	3.60	G-1	P2	1.75	2.13	0.63	0.25	0.44	2.94	2.31	6.10
5 B 38 P	4.15	3.40	3.80	S-1	P2	1.75	1.69	–	0.25	–	2.31	2.31	6.10
5 B 40 P	4.35	3.60	4.00	S-1	P2	1.75	1.69	–	0.25	–	2.31	2.31	7.00
5 B 42 P	4.55	3.80	4.20	S-1	P2	1.75	1.69	–	0.25	–	2.94	2.31	7.80
5 B 44 P	4.75	4.00	4.40	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.31	2.31	8.50
5 B 46 P	4.95	4.20	4.60	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.94	2.31	9.80
5 B 48 P	5.15	4.40	4.80	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.31	2.31	10.50
5 B 50 P	5.35	4.60	5.00	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.94	2.31	11.60
5 B 52 P	5.55	4.80	5.20	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.94	2.31	12.50
5 B 54 Q	5.75	5.00	5.40	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	10.40
5 B 56 Q	5.95	5.20	5.60	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	11.80
5 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	12.80
5 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	13.80
5 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	14.60
5 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	16.40
5 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	17.10
5 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	17.90
5 B 70 Q	7.35	6.60	7.00	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	20.90
5 B 70 R	7.35	6.60	7.00	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	17.00
5 B 74 Q	7.75	7.00	7.40	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	19.80
5 B 74 R	7.75	7.00	7.40	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	20.30
5 B 80 Q	8.35	7.60	8.00	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	22.30
5 B 80 R	8.35	7.60	8.00	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	24.80
5 B 86 Q	8.95	8.20	8.60	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	29.50
5 B 86 R	8.95	8.20	8.60	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	27.30
5 B 90 Q	9.35	8.60	9.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	28.60
5 B 90 R	9.35	8.60	9.00	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	29.10
5 B 94 Q	9.75	9.00	9.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	29.50
5 B 94 R	9.75	9.00	9.40	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	30.00
5 B 110 Q	11.35	10.60	11.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	32.80
5 B 110 R	11.35	10.60	11.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	32.80
5 B 124 Q	12.75	12.00	12.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	35.40
5 B 124 R	12.75	12.00	12.40	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	36.00
5 B 136 Q	13.95	13.20	13.60	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	41.00
5 B 136 R	13.95	13.20	13.60	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	40.30
5 B 154 Q	15.75	15.00	15.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	45.30
5 B 154 R	15.75	15.00	15.40	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	45.00
5 B 160 Q	16.35	15.60	16.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	48.00
5 B 160 R	16.35	15.60	16.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	48.00
5 B 184 Q	18.75	18.00	18.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	57.30
5 B 184 R	18.75	18.00	18.40	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	54.00
5 B 200 Q	20.35	19.50	20.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	66.00
5 B 200 R	20.35	19.50	20.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	64.00
5 B 250 Q	25.35	24.50	25.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	82.50
5 B 250 R	25.35	24.50	25.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	79.00
5 B 300 Q	30.35	29.50	30.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	117.00
5 B 300 R	30.35	29.50	30.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	115.00
5 B 380 Q	38.35	37.50	38.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	159.00
5 B 380 R	38.35	37.50	38.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	150.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

A-B Combination Groove Conventional MST® Bushed Stock Sheaves

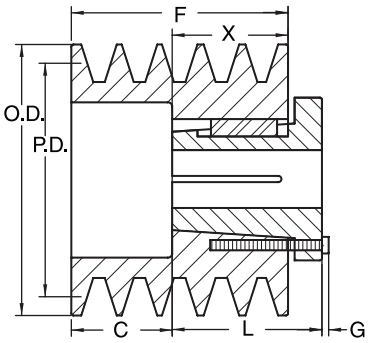


A-B MST® Sheaves

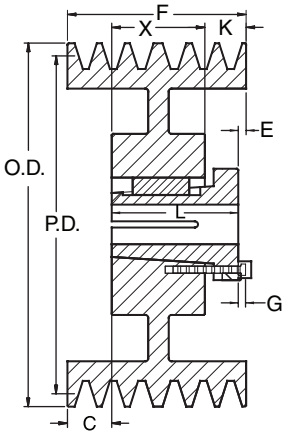
6 Groove													
F = 4-3/4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
6 B 34 P	3.75	3.00	3.40	N-1	P2	1.75	0.00	0.63	0.25	2.44	2.94	2.31	6.10
6 B 36 P	3.95	3.20	3.60	N-1	P2	1.75	2.88	0.63	0.25	0.44	2.31	2.31	7.30
6 B 38 P	4.15	3.40	3.80	S-1	P2	1.75	–	–	0.25	2.44	2.94	2.31	7.00
6 B 40 P	4.35	3.60	4.00	S-1	P2	1.75	–	–	0.25	2.44	2.94	2.31	8.10
6 B 42 P	4.55	3.80	4.20	S-1	P2	1.75	2.44	–	0.25	–	2.31	2.31	9.30
6 B 44 P	4.75	4.00	4.40	J-2	P2	1.75	–	0.63	0.25	2.44	2.94	2.31	9.90
6 B 46 P	4.95	4.20	4.60	J-2	P2	1.75	–	0.63	0.25	2.44	2.94	2.31	11.00
6 B 48 P	5.15	4.40	4.80	J-2	P2	1.75	1.81	0.63	0.25	0.63	2.31	2.31	11.80
6 B 50 P	5.35	4.60	5.00	J-2	P2	1.75	–	0.63	0.25	2.44	2.94	2.31	12.90
6 B 52 P	5.55	4.80	5.20	J-2	P2	1.75	1.81	0.63	0.25	0.63	2.31	2.31	14.80
6 B 54 Q	5.75	5.00	5.40	J-2	Q1	2.69	–	0.75	0.28	3.00	2.50	1.75	11.80
6 B 56 Q	5.95	5.20	5.60	J-2	Q1	2.69	2.25	0.75	0.28	0.75	1.75	1.75	17.30
6 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	–	0.75	0.28	3.00	2.50	1.75	14.50
6 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	–	0.75	0.28	3.00	2.50	1.75	15.40
6 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	2.25	0.75	0.28	0.75	1.75	1.75	16.40
6 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	–	0.75	0.28	3.00	2.50	1.75	18.60
6 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	2.25	0.75	0.28	0.75	1.75	1.75	18.50
6 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	–	0.75	0.28	3.00	2.50	1.75	20.80
6 B 70 Q	7.35	6.60	7.00	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	22.80
6 B 70 R	7.35	6.60	7.00	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	19.00
6 B 74 Q	7.75	7.00	7.40	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	26.50
6 B 74 R	7.75	7.00	7.40	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	21.80
6 B 80 Q	8.35	7.60	8.00	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	24.10
6 B 80 R	8.35	7.60	8.00	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	26.80
6 B 86 Q	8.95	8.20	8.60	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	27.10
6 B 86 R	8.95	8.20	8.60	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	29.40
6 B 90 Q	9.35	8.60	9.00	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	30.60
6 B 90 R	9.35	8.60	9.00	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	31.40
6 B 94 Q	9.75	9.00	9.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	32.80
6 B 94 R	9.75	9.00	9.40	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	32.80
6 B 110 Q	11.35	10.60	11.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	36.60
6 B 110 R	11.35	10.60	11.00	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	37.00
6 B 124 Q	12.75	12.00	12.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	39.80
6 B 124 R	12.75	12.00	12.40	J-2	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	39.40
6 B 136 Q	13.95	13.20	13.60	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	44.90
6 B 136 R	13.95	13.20	13.60	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	45.30
6 B 154 Q	15.75	15.00	15.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	49.90
6 B 154 R	15.75	15.00	15.40	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	49.10
6 B 160 Q	16.35	15.60	16.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	54.00
6 B 160 R	16.35	15.60	16.00	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	52.00
6 B 184 Q	18.75	18.00	18.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	62.00
6 B 184 R	18.75	18.00	18.40	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	59.00
6 B 200 Q	20.35	19.50	20.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	74.00
6 B 200 R	20.35	19.50	20.00	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	69.00
6 B 250 Q	25.35	24.50	25.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	89.50
6 B 250 R	25.35	24.50	25.00	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	83.00
6 B 300 Q	30.35	29.50	30.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	128.00
6 B 300 R	30.35	29.50	30.00	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	126.00
6 B 380 Q	38.35	37.50	38.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	179.00
6 B 380 R	38.35	37.50	38.00	K-3	R1	3.75	–	0.88	0.28	2.75	2.88	2.00	170.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

Combination Groove Conventional MST® Bushed Stock Sheaves A-B



Type S



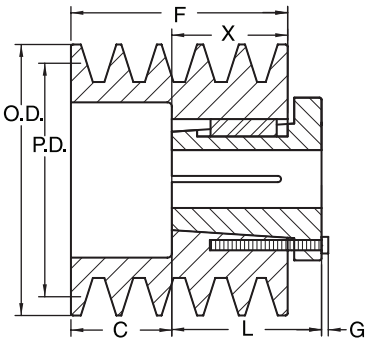
Type K

A-B MST® Sheaves

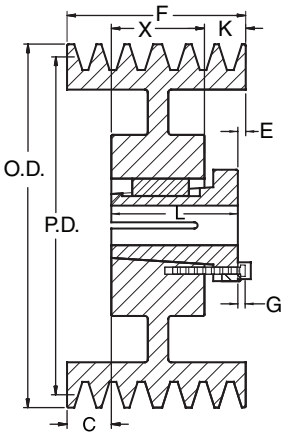
8 Groove												
F = 6-1/4												
Part Number	OD	PD		Type	Bush	Bush Max Bore	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt									
8 B 54 Q	5.75	5.00	5.40	S-1	Q2	2.63	0.75	0.28	3.50	3.50	2.75	18.10
8 B 56 Q	5.95	5.20	5.60	S-1	Q2	2.63	0.75	0.28	3.50	3.50	2.75	20.60
8 B 58 Q	6.15	5.40	5.80	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	20.90
8 B 60 Q	6.35	5.60	6.00	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	23.00
8 B 62 Q	6.55	5.80	6.20	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	23.00
8 B 64 Q	6.55	5.80	6.20	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	25.00
8 B 66 Q	6.95	6.20	6.60	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	27.30
8 B 68 Q	7.15	6.40	6.80	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	31.10
8 B 70 R	7.35	6.60	7.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	29.50
8 B 74 R	7.75	7.00	7.40	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	34.90
8 B 80 R	8.35	7.60	8.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	42.90
8 B 86 R	8.95	8.20	8.60	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	52.00
8 B 90 R	9.35	8.60	9.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	48.30
8 B 94 R	9.75	9.00	9.40	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	49.30
8 B 110 R	11.35	10.60	11.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	55.00
8 B 124 R	12.75	12.00	12.40	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	60.00
8 B 136 R	13.95	13.20	13.60	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	68.50
8 B 154 R	15.75	15.00	15.40	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	77.30
8 B 184 R	18.75	18.00	18.40	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	90.00
8 B 200 R	20.35	19.50	20.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	96.00
8 B 250 R	25.35	24.50	25.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	129.00
8 B 300 R	30.35	29.50	30.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	163.00
8 B 300 S	30.35	29.50	30.00	K-3	S1	4.25	1.06	0.38	2.94	4.38	3.31	168.00
8 B 380 R	38.35	37.50	38.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	228.00
8 B 380 S	38.35	37.50	38.00	K-3	S1	4.25	1.06	0.38	2.94	4.38	3.31	238.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

A-B Combination Groove Conventional MST® Bushed Stock Sheaves



Type S

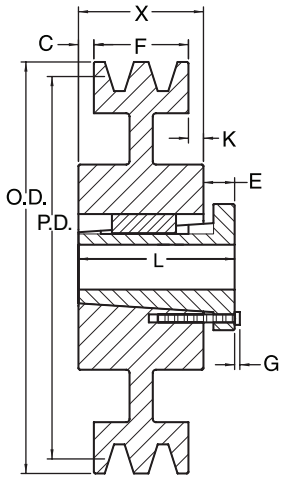


Type K

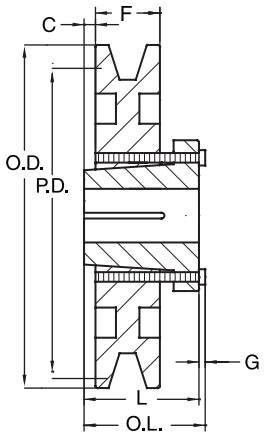
A-B MST® Sheaves

10 Groove												
F = 7-3/4												
Part Number	OD	PD		Type	Bush	Bush Max Bore	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt									
10 B 54 Q	5.75	5.00	5.40	S-1	Q2	2.63	0.75	0.28	5.00	3.50	2.75	21.50
10 B 56 Q	5.95	5.20	5.60	S-1	Q2	2.63	0.75	0.28	5.00	3.50	2.75	24.90
10 B 58 Q	6.15	5.40	5.80	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	23.50
10 B 60 Q	6.35	5.60	6.00	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	25.60
10 B 62 Q	6.55	5.80	6.20	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	27.50
10 B 64 Q	6.75	6.00	6.40	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	31.40
10 B 66 Q	6.95	6.20	6.60	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	32.50
10 B 68 Q	7.15	6.40	6.80	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	36.10
10 B 70 R	7.35	6.60	7.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	34.00
10 B 74 R	7.75	7.00	7.40	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	39.30
10 B 80 R	8.35	7.60	8.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	48.50
10 B 86 R	8.95	8.20	8.60	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	51.50
10 B 90 R	9.35	8.60	9.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	52.30
10 B 94 R	9.75	9.00	9.40	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	54.00
10 B 110 R	11.35	10.60	11.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	61.00
10 B 124 R	12.75	12.00	12.40	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	77.50
10 B 136 R	13.95	13.20	13.60	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	76.50
10 B 154 R	15.75	15.00	15.40	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	89.00
10 B 184 R	18.75	18.00	18.40	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	104.00
10 B 200 R	20.35	19.50	20.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	112.00
10 B 250 R	25.35	24.50	25.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	153.00
10 B 300 R	30.35	29.50	30.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	188.00
10 B 380 R	38.35	37.50	38.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	258.00
10 B 380 U	38.35	37.50	38.00	K-3	U0	5.50	1.19	0.47	4.00	4.94	3.75	270.00
8 B 380 S	38.35	37.50	38.00	K-3	S1	4.25	1.06	0.38	2.94	4.38	3.31	238.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked



Type L



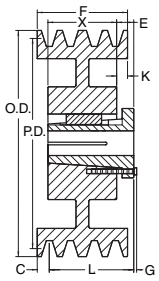
Type M

C MST® Sheaves

1 Groove												
F = 1-1/4												
Part Number	OD	PD / C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
1 C 56 P	6.00	5.60	M-1	P1	1.75	0.06	0.63	0.25	–	1.94	1.31	6.00
1 C 60 Q	6.40	6.00	M-1	Q1	2.69	0.50	0.75	0.28	–	2.50	1.75	6.10
1 C 70 Q	7.40	7.00	M-1	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	9.30
1 C 72 Q	7.60	7.20	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	10.10
1 C 74 Q	7.80	7.40	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	10.80
1 C 76 Q	8.00	7.60	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	11.40
1 C 78 Q	8.20	7.80	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	9.80
1 C 80 Q	8.40	8.00	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	9.90
1 C 82 Q	8.60	8.20	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	10.10
1 C 84 Q	8.80	8.40	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	11.00
1 C 86 Q	9.00	8.60	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	10.60
1 C 88 Q	9.20	8.80	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	11.60
1 C 90 Q	9.40	9.00	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	11.40
1 C 92 Q	9.60	9.20	M-2	Q1	2.69	0.50	0.75	0.28	–	2.50	1.25	12.60
1 C 94 Q	9.80	9.40	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	14.80
1 C 96 Q	10.00	9.60	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	15.80
1 C 98 Q	10.20	9.80	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	15.90
1 C 100 Q	10.40	10.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	16.80
1 C 102 Q	10.60	10.20	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	16.10
1 C 106 Q	11.00	10.60	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	17.30
1 C 110 Q	11.40	11.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	17.50
1 C 114 Q	11.80	11.40	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	18.60
1 C 120 Q	12.40	12.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	19.50
1 C 130 Q	13.40	13.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	22.80
1 C 160 Q	16.40	16.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	28.50
1 C 200 Q	20.40	20.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	37.80
1 C 240 Q	24.40	24.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	49.50

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

C Conventional MST® Bushed Stock Sheaves



Type J

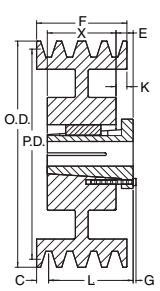
C MST® Sheaves

2 Groove											
F = 2-1/4											
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
2 C 56 P	6.00	5.60	J-2	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	8.40
2 C 60 Q	6.40	6.00	J-2	Q1	2.69	0.00	0.75	0.28	0.50	2.50	1.75	9.50
2 C 70 Q	7.40	7.00	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.00
2 C 72 Q	7.60	7.20	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	15.40
2 C 74 Q	7.80	7.40	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.60
2 C 76 Q	8.00	7.60	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	17.60
2 C 78 Q	8.20	7.80	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.10
2 C 80 Q	8.40	8.00	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.30
2 C 82 Q	8.60	8.20	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.80
2 C 84 Q	8.80	8.40	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.40
2 C 86 Q	9.00	8.60	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.10
2 C 88 Q	9.20	8.80	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	17.10
2 C 90 Q	9.40	9.00	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.80
2 C 92 Q	9.60	9.20	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	18.40
2 C 94 Q	9.80	9.40	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	19.10
2 C 96 Q	10.00	9.60	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	20.60
2 C 98 Q	10.20	9.80	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	19.50
2 C 100 Q	10.40	10.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	22.00
2 C 102 Q	10.60	10.20	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	21.30
2 C 106 Q	11.00	10.60	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	22.40
2 C 110 Q	11.40	11.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	22.40
2 C 114 Q	11.80	11.40	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	23.50
2 C 120 Q	12.40	12.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	24.90
2 C 130 Q	13.40	13.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	28.60
2 C 140 R	14.40	14.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	33.50
2 C 160 Q	16.40	16.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	36.00
2 C 180 R	18.40	18.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	42.30
2 C 200 Q	20.40	20.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	46.00
2 C 240 Q	24.40	24.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	59.50
2 C 270 R	27.40	27.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	77.00
2 C 300 R	30.40	30.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	93.00
2 C 360 R	36.40	36.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	117.00
2 C 440 R	44.40	44.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	164.00

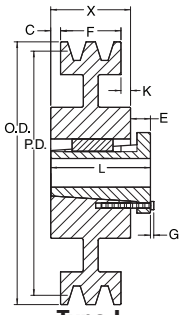
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

Conventional MST® Bushed Stock Sheaves

C



Type J



Type L

C MST® Sheaves

3 Groove F = 3-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
3 C 50 Q	5.40	5.00	J-1	Q1	2.69	1.50	0.75	0.28	–	2.50	1.75	8.40
3 C 56 P	6.00	5.60	J-2	P2	1.75	0.31	0.63	0.25	0.63	2.94	2.31	12.90
3 C 60 Q	6.40	6.00	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	11.80
3 C 70 Q	7.40	7.00	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	16.80
3 C 72 Q	7.60	7.20	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	18.00
3 C 74 Q	7.80	7.40	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	19.10
3 C 76 Q	8.00	7.60	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	21.30
3 C 78 Q	8.20	7.80	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	17.40
3 C 80 Q	8.40	8.00	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	17.80
3 C 82 Q	8.60	8.20	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	17.90
3 C 84 Q	8.80	8.40	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	20.40
3 C 86 Q	9.00	8.60	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	19.50
3 C 88 Q	9.20	8.80	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	22.50
3 C 90 R	9.40	9.00	J-2	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	27.30
3 C 90 Q	9.40	9.00	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	20.40
3 C 92 R	9.60	9.20	J-2	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	27.50
3 C 92 Q	9.60	9.20	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	22.80
3 C 94 R	9.80	9.40	J-3	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	26.90
3 C 94 Q	9.80	9.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	23.00
3 C 96 R	10.00	9.60	J-3	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	28.40
3 C 96 Q	10.00	9.60	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	25.30
3 C 98 R	10.20	9.80	J-3	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	29.30
3 C 98 Q	10.20	9.80	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	24.40
3 C 100 R	10.40	10.00	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	29.00
3 C 100 Q	10.40	10.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	27.60
3 C 102 R	10.60	10.20	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	31.40
3 C 102 Q	10.60	10.20	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	24.90
3 C 106 R	11.00	10.60	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	31.80
3 C 106 Q	11.00	10.60	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	26.90
3 C 110 R	11.40	11.00	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	29.30
3 C 110 Q	11.40	11.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	27.40
3 C 114 Q	11.80	11.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	28.30
3 C 120 R	12.40	12.00	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	36.90
3 C 120 Q	12.40	12.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	30.30
3 C 130 R	13.40	13.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	34.80
3 C 130 Q	13.40	13.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	34.90
3 C 140 R	14.40	14.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	39.40
3 C 150 R	15.40	15.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	43.80
3 C 160 R	16.40	16.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	47.00
3 C 160 Q	16.40	16.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	46.00
3 C 180 R	18.40	18.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	51.50
3 C 200 R	20.40	20.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	58.00
3 C 200 Q	20.40	20.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	54.50
3 C 240 R	24.40	24.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	71.00
3 C 240 Q	24.40	24.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	71.00
3 C 270 R	27.40	27.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	92.00
3 C 300 R	30.40	30.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	110.00
3 C 360 R	36.40	36.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	135.00
3 C 440 R	44.40	44.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	196.00
3 C 500 R	50.40	50.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	213.00
3 C 500 S	50.40	50.00	L-3	S1	4.25	0.03	1.06	0.38	0.03	4.38	3.31	224.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

C Conventional MST® Bushed Stock Sheaves

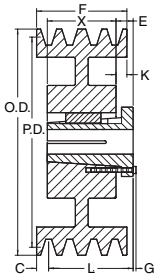
C MST® Sheaves

4 Groove F = 4-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
4 C 50 Q	5.40	5.00	J-1	Q2	2.63	1.50	2.75	0.28	–	3.50	2.75	10.90
4 C 56 P	6.00	5.60	J-2	P2	1.75	1.31	0.63	0.25	0.63	2.94	2.31	15.40
4 C 60 Q	6.40	6.00	J-2	Q2	2.63	0.75	2.75	0.28	0.88	3.50	2.75	17.00
4 C 70 Q	7.40	7.00	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	23.80
4 C 72 Q	7.60	7.20	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	26.80
4 C 74 Q	7.80	7.40	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	27.50
4 C 76 Q	8.00	7.60	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	30.30
4 C 78 Q	8.20	7.80	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	26.40
4 C 80 Q	8.40	8.00	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	29.00
4 C 82 Q	8.60	8.20	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	26.80
4 C 84 Q	8.80	8.40	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	28.80
4 C 86 Q	9.00	8.60	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	27.90
4 C 88 Q	9.20	8.80	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	31.60
4 C 90 R	9.40	9.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	30.00
4 C 90 Q	9.40	9.00	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	28.40
4 C 92 R	9.60	9.20	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	31.60
4 C 92 Q	9.60	9.20	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	32.30
4 C 94 R	9.80	9.40	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	31.60
4 C 94 Q	9.80	9.40	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	31.80
4 C 96 R	10.00	9.60	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	31.10
4 C 96 Q	10.00	9.60	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	35.20
4 C 98 R	10.20	9.80	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	33.40
4 C 98 Q	10.20	9.80	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	33.00
4 C 100 R	10.40	10.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	34.10
4 C 100 Q	10.40	10.00	J-3	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	37.00
4 C 102 R	10.60	10.20	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	36.50
4 C 102 Q	10.60	10.20	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	33.50
4 C 106 R	11.00	10.60	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	36.50
4 C 106 Q	11.00	10.60	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	36.30
4 C 110 R	11.40	11.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	33.00
4 C 110 Q	11.40	11.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	36.30
4 C 114 Q	11.80	11.40	J-3	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	38.40
4 C 120 R	12.40	12.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	42.90
4 C 120 Q	12.40	12.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	40.50
4 C 130 R	13.40	13.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	40.10
4 C 130 Q	13.40	13.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	43.60
4 C 140 R	14.40	14.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	46.60
4 C 150 R	15.40	15.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	52.00
4 C 160 R	16.40	16.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	55.00
4 C 160 Q	16.40	16.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	55.00
4 C 180 R	18.40	18.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	60.00
4 C 180 S	18.40	18.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	92.00
4 C 200 R	20.40	20.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	69.00
4 C 200 S	20.40	20.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	103.00
4 C 200 Q	20.40	20.00	J-3	Q2	2.63	0.75	1.06	0.28	0.75	3.50	2.75	103.00
4 C 240 R	24.40	24.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	86.00
4 C 240 S	24.40	24.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	120.00
4 C 240 Q	24.40	24.00	J-3	Q2	2.63	0.75	1.06	0.28	0.75	3.50	2.75	120.00
4 C 270 R	27.40	27.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	110.00
4 C 270 S	27.40	27.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	123.00
4 C 300 R	30.40	30.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	123.00
4 C 300 S	30.40	30.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	142.00
4 C 360 R	36.40	36.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	156.00
4 C 360 S	36.40	36.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	183.00
4 C 440 R	44.40	44.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	218.00
4 C 440 U	44.40	44.00	J-3	U0	5.50	0.25	1.19	0.47	0.25	4.94	3.75	241.00
4 C 500 R	50.40	50.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	240.00
4 C 500 U	50.40	50.00	J-3	U0	5.50	0.25	1.19	0.47	0.25	4.94	3.75	283.00

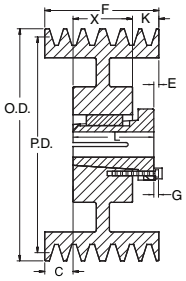
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

Conventional MST® Bushed Stock Sheaves

C



Type J



Type K

C MST® Sheaves

5 Groove												
F = 5-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
5 C 70 Q	7.40	7.00	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	27.50
5 C 72 Q	7.60	7.20	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	29.80
5 C 74 Q	7.80	7.40	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	31.00
5 C 76 Q	8.00	7.60	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	34.30
5 C 78 Q	8.20	7.80	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	30.00
5 C 80 Q	8.40	8.00	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	33.40
5 C 82 Q	8.60	8.20	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	30.30
5 C 84 Q	8.80	8.40	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	32.80
5 C 86 Q	9.00	8.60	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	31.00
5 C 88 Q	9.20	8.80	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	34.90
5 C 90 R	9.40	9.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	33.40
5 C 90 Q	9.40	9.00	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	32.60
5 C 92 R	9.60	9.20	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	36.80
5 C 92 Q	9.60	9.20	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	36.40
5 C 94 R	9.80	9.40	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	35.80
5 C 94 Q	9.80	9.40	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	35.60
5 C 96 R	10.00	9.60	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	35.40
5 C 96 Q	10.00	9.60	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	39.10
5 C 98 R	10.20	9.80	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	37.60
5 C 98 Q	10.20	9.80	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	37.30
5 C 100 R	10.40	10.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	38.90
5 C 100 Q	10.40	10.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	42.30
5 C 102 R	10.60	10.20	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	40.60
5 C 102 Q	10.60	10.20	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	39.40
5 C 106 R	11.00	10.60	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	39.00
5 C 106 Q	11.00	10.60	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	41.00
5 C 110 R	11.40	11.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	38.80
5 C 110 Q	11.40	11.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	42.40
5 C 114 Q	11.80	11.40	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	42.80
5 C 120 R	12.40	12.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	47.50
5 C 120 Q	12.40	12.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	46.30
5 C 130 R	13.40	13.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	46.00
5 C 130 Q	13.40	13.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	49.50
5 C 140 R	14.40	14.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	52.00
5 C 150 R	15.40	15.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	54.00
5 C 160 R	16.40	16.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	63.00
5 C 160 Q	16.40	16.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	64.50
5 C 180 R	18.40	18.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	69.00
5 C 180 S	18.40	18.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	100.00
5 C 200 R	20.40	20.00	K-3	R1	3.75	0.63	0.88	0.28	2.63	2.88	2.00	77.00
5 C 200 S	20.40	20.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	99.00
5 C 200 Q	20.40	20.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	78.00
5 C 240 R	24.40	24.00	K-3	R1	3.75	0.63	0.88	0.28	2.63	2.88	2.00	110.00
5 C 240 S	24.40	24.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	129.00
5 C 240 Q	24.40	24.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	96.00
5 C 270 R	27.40	27.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	131.00
5 C 300 R	30.40	30.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	150.00
5 C 300 S	30.40	30.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	160.00
5 C 360 R	36.40	36.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	194.00
5 C 440 R	44.40	44.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	243.00
5 C 500 R	50.40	50.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	273.00

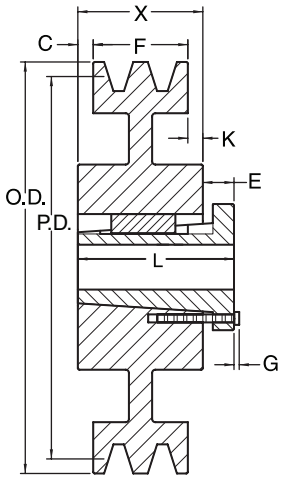
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

C Conventional MST® Bushed Stock Sheaves

C MST® Sheaves

6 Groove F = 6-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
6 C 70 Q	7.40	7.00	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	29.90
6 C 72 Q	7.60	7.20	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	33.60
6 C 74 Q	7.80	7.40	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	33.30
6 C 76 Q	8.00	7.60	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	37.90
6 C 78 Q	8.20	7.80	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	33.50
6 C 80 Q	8.40	8.00	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	37.60
6 C 82 Q	8.60	8.20	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	34.00
6 C 84 Q	8.80	8.40	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	37.00
6 C 86 Q	9.00	8.60	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	35.00
6 C 88 Q	9.20	8.80	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	39.40
6 C 90 R	9.40	9.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	53.00
6 C 90 Q	9.40	9.00	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	36.80
6 C 92 R	9.60	9.20	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	58.00
6 C 92 Q	9.60	9.20	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	41.00
6 C 94 R	9.80	9.40	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	63.50
6 C 94 Q	9.80	9.40	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	39.40
6 C 96 R	10.00	9.60	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	55.00
6 C 96 Q	10.00	9.60	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	43.60
6 C 98 R	10.20	9.80	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	65.00
6 C 98 Q	10.20	9.80	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	42.00
6 C 100 R	10.40	10.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	62.00
6 C 100 Q	10.40	10.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	47.30
6 C 102 R	10.60	10.20	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	68.00
6 C 102 Q	10.60	10.20	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	44.40
6 C 106 R	11.00	10.60	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	55.00
6 C 106 Q	11.00	10.60	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	45.40
6 C 110 R	11.40	11.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	51.50
6 C 110 Q	11.40	11.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	47.00
6 C 114 Q	11.80	11.40	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	49.60
6 C 120 R	12.40	12.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	64.00
6 C 120 Q	12.40	12.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	51.00
6 C 130 R	13.40	13.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	61.00
6 C 130 Q	13.40	13.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	56.00
6 C 140 R	14.40	14.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	69.00
6 C 150 R	15.40	15.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	68.00
6 C 160 R	16.40	16.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	77.00
6 C 160 Q	16.40	16.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	72.00
6 C 180 R	18.40	18.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	84.00
6 C 180 S	18.40	18.00	K-3	S1	4.25	1.47	1.06	0.28	1.47	4.38	3.31	107.00
6 C 200 R	20.40	20.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	91.50
6 C 200 S	20.40	20.00	K-3	S1	4.25	1.47	1.06	0.38	1.47	4.38	3.31	127.00
6 C 200 Q	20.40	20.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	88.30
6 C 240 R	24.40	24.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	116.00
6 C 240 S	24.40	24.00	K-3	S1	4.25	1.47	1.06	0.38	1.47	4.38	3.31	125.00
6 C 240 Q	24.40	24.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	108.00
6 C 270 R	27.40	27.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	144.00
6 C 270 S	27.40	27.00	K-3	S1	4.25	1.47	1.06	0.38	1.47	4.38	3.31	151.00
6 C 300 R	30.40	30.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	160.00
6 C 300 U	30.40	30.00	K-3	U0	5.50	1.25	1.19	0.47	1.25	4.94	3.75	191.00
6 C 360 R	36.40	36.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	211.00
6 C 360 U	36.40	36.00	K-3	U0	5.50	1.25	1.19	0.47	1.25	4.94	3.75	233.00
6 C 440 R	44.40	44.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	286.00
6 C 500 R	50.40	50.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	303.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked



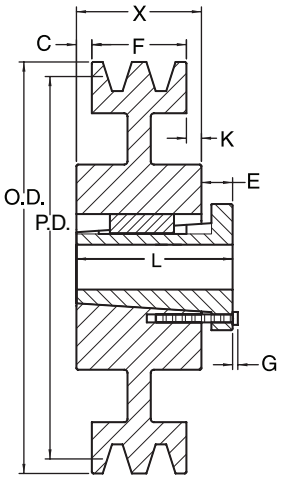
Type K

C MST® Sheaves

7 Groove												
F = 7-1/4												
Part Number	OD	PD / C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
7 C 70 Q	7.40	7.00	K-2	Q3	2.500	1.500	0.750	0.281	1.500	5.000	0.000	37.50
7 C 80 R	8.40	8.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	45.60
7 C 86 R	9.00	8.60	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	52.80
7 C 90 R	9.40	9.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	58.00
7 C 92 R	9.60	9.20	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	63.00
7 C 94 R	9.80	9.40	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	68.00
7 C 98 R	10.20	9.80	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	73.00
7 C 100 R	10.40	10.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	71.00
7 C 102 R	10.60	10.20	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	76.00
7 C 106 R	11.00	10.60	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	71.00
7 C 110 R	11.40	11.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	68.00
7 C 120 R	12.40	12.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	67.00
7 C 130 R	13.40	13.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	84.00
7 C 140 R	14.40	14.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	83.00
7 C 150 R	15.40	15.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	86.00
7 C 160 R	16.40	16.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	88.00
7 C 180 S	18.40	18.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	137.00
7 C 180 U	18.40	18.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	133.00
7 C 200 S	20.40	20.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	152.00
7 C 200 U	20.40	20.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	144.00
7 C 240 S	24.40	24.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	173.00
7 C 270 S	27.40	27.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	197.00
7 C 270 U	27.40	27.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	196.00
7 C 300 S	30.40	30.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	220.00
7 C 300 U	30.40	30.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	217.00
7 C 360 S	36.40	36.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	279.00
7 C 440 S	44.40	44.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	337.00
7 C 500 S	50.40	50.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	382.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

C Conventional MST® Bushed Stock Sheaves

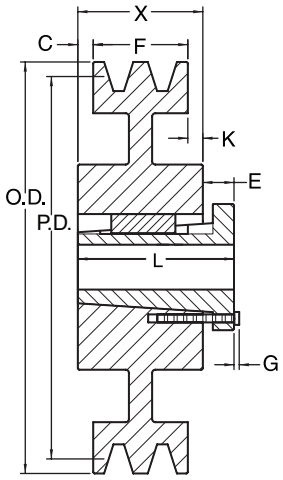


Type K

C MST® Sheaves

8 Groove												
F = 8-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
8 C 70 Q	7.40	7.00	K-2	Q3	2.50	1.63	0.75	0.28	2.38	5.00	0.00	40.00
8 C 80 R	8.40	8.00	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	49.00
8 C 86 R	9.00	8.60	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	57.00
8 C 90 R	9.40	9.00	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	62.00
8 C 92 R	9.60	9.20	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	68.00
8 C 94 R	9.80	9.40	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	73.00
8 C 96 R	10.00	9.60	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	70.00
8 C 98 R	10.20	9.80	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	76.00
8 C 100 R	10.40	10.00	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	72.00
8 C 102 R	10.60	10.20	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	79.00
8 C 106 R	11.00	10.60	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	76.00
8 C 110 R	11.40	11.00	K-2	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	73.00
8 C 120 R	12.40	12.00	K-2	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	74.00
8 C 130 R	13.40	13.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	80.00
8 C 140 R	14.40	14.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	84.00
8 C 150 R	15.40	15.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	93.00
8 C 160 R	16.40	16.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	100.00
8 C 180 S	18.40	18.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	140.00
8 C 180 U	18.40	18.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	141.00
8 C 200 S	20.40	20.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	163.00
8 C 200 U	20.40	20.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	160.00
8 C 240 S	24.40	24.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	194.00
8 C 240 U	24.40	24.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	184.00
8 C 270 S	27.40	27.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	224.00
8 C 300 S	30.40	30.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	212.00
8 C 300 U	30.40	30.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	227.00
8 C 360 S	36.40	36.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	261.00
8 C 360 U	36.40	36.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	288.00
8 C 440 S	44.40	44.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	368.00
8 C 440 U	44.40	44.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	358.00
8 C 500 S	50.40	50.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	429.00
8 C 500 U	50.40	50.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	417.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked



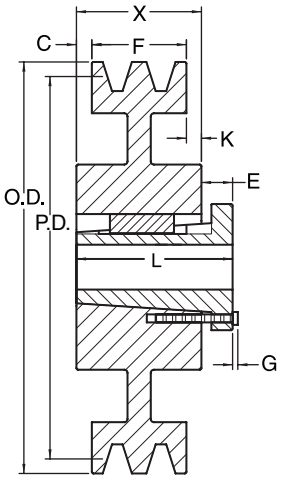
Type K

C MST® Sheaves

10 Groove												
F = 10-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
10 C 80 R	8.40	8.00	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	70.00
10 C 86 R	9.00	8.60	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	72.00
10 C 90 R	9.40	9.00	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	72.00
10 C 92 R	9.60	9.20	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	70.00
10 C 94 R	9.80	9.40	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	78.00
10 C 96 R	10.00	9.60	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	73.00
10 C 98 R	10.20	9.80	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	88.00
10 C 100 R	10.40	10.00	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	89.00
10 C 102 R	10.60	10.20	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	97.00
10 C 106 R	11.00	10.60	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	84.00
10 C 110 R	11.40	11.00	K-2	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	84.00
10 C 120 R	12.40	12.00	K-2	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	97.00
10 C 130 R	13.40	13.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	102.00
10 C 140 R	14.40	14.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	106.00
10 C 150 R	15.40	15.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	110.00
10 C 160 R	16.40	16.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	111.00
10 C 180 S	18.40	18.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	164.00
10 C 180 U	18.40	18.00	K-3	U0	5.50	3.25	1.19	0.47	3.25	4.94	3.75	163.00
10 C 200 S	20.40	20.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	170.00
10 C 200 U	20.40	20.00	K-3	U0	5.50	3.25	1.19	0.47	3.25	4.94	3.75	178.00
10 C 240 S	24.40	24.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	210.00
10 C 240 U	24.40	24.00	K-3	U0	5.50	3.25	1.19	0.47	3.25	4.94	3.75	208.00
10 C 270 S	27.40	27.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	246.00
10 C 300 S	30.40	30.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	278.00
10 C 300 U	30.40	30.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	298.00
10 C 360 S	36.40	36.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	324.00
10 C 360 U	36.40	36.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	362.00
10 C 440 U	44.40	44.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	463.00
10 C 500 U	50.40	50.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	480.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

C Conventional MST® Bushed Stock Sheaves



Type K

C MST® Sheaves

12 Groove												
F = 12-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
12 C 90 S	9.40	9.00	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	88.00
12 C 92 S	9.60	9.20	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	93.00
12 C 94 S	9.80	9.40	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	104.00
12 C 96 S	10.00	9.60	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	102.00
12 C 98 S	10.20	9.80	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	111.00
12 C 100 S	10.40	10.00	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	112.00
12 C 102 S	10.60	10.20	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	121.00
12 C 106 S	11.00	10.60	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	133.00
12 C 110 S	11.40	11.00	K-2	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	128.00
12 C 120 S	12.40	12.00	K-2	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	140.00
12 C 130 S	13.40	13.00	K-2	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	165.00
12 C 140 S	14.40	14.00	K-3	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	148.00
12 C 150 S	15.40	15.00	K-3	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	162.00
12 C 160 S	16.40	16.00	K-3	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	163.00
12 C 180 U	18.40	18.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	204.00
12 C 200 U	20.40	20.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	224.00
12 C 240 U	24.40	24.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	257.00
12 C 270 U	27.40	27.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	300.00
12 C 300 U	30.40	30.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	327.00
12 C 360 U	36.40	36.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	397.00
12 C 440 U	44.40	44.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	519.00
12 C 500 U	50.40	50.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	551.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

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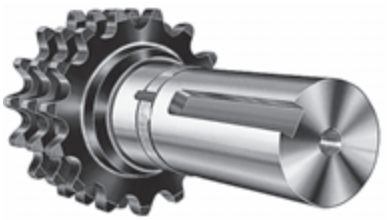
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Made-to-Order Sprockets



Multi-Strand Oil Field
Sprocket with Clutch Jaws



Triple 160
Shaft Sprocket



Quadruple 160
Sprocket



Triple 200
Sprocket



Double 200
Sprocket and Pinion



Large Triple Strand
Sprocket with Mounting Flange



Sprocket with
Mud Relief



Standard RC Sprocket
with Spline Bore



Special Dryer Sprocket



Special Plastic Sprocket



Block Chain

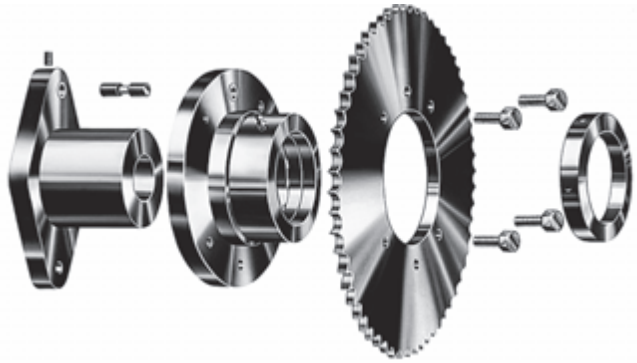
Martin manufactures numerous Made-To-Order (MTO) sprockets. If you do not see the sprocket you need in this section, call us. Chances are if chain runs on it, we have made the sprocket before. Special materials, special bores, duplex, triplex, double-single-doubles, etc. are all familiar to Martin.

Bolt-On
Shear Pin Sprockets

Shear Pin sprockets provide simple, dependable protection against expensive machinery damage caused by overloads or jamming. Torque is transmitted by a single pin, necked to shear when the safe load is exceeded. When an overload occurs, the pin shears, disconnecting the drive immediately.

The Bolt-on Shear Pin Adapter converts any plate sprocket into a stock Shear Pin sprocket allowing immediate delivery of stock Shear Pin sprockets.

Selection guide on page E-6 gives complete procedure to select the proper Shear Pin assembly.



Stock Shear Pin Assemblies

Shear Pin Assembly Number	Hub Bore Range	Shear Pin Hub Catalog Number	Shear Pin Adapter Catalog Number
SP-17	1" & UNDER	SPH-17	SPA-17
SP-18	1 1/16 - 1 1/4	SPH-18	SPA-18
SP-19	1 5/16 - 1 1/2	SPH-19	SPA-19
SP-20	1 3/16 - 1 3/4	SPH-20	SPA-20
SP-21	1 15/16 - 2	SPH-21	SPA-21
SP-22	2 1/16 - 2 1/4	SPH-22	SPA-22
SP-23	2 5/16 - 2 1/2	SPH-23	SPA-23
SP-24	2 9/16 - 2 3/4	SPH-24	SPA-24
SP-25	2 13/16 - 3	SPH-25	SPA-25
SP-26	3 1/16 - 3 1/2	SPH-26	SPA-26
SP-27	3 5/16 - 4	SPH-27	SPA-27
SP-28	4 1/16 - 4 1/2	SPH-28	SPA-28
SP-29	4 5/16 - 5	SPH-29	SPA-29
SP-30	4 7/16 - 5 1/2	SPH-30	SPA-30
SP-31	5 5/16 - 6	SPH-31	SPA-31

Notes on Pricing:

Shear pin hub list price includes any finished bore within the stated range, standard keyway, setscrew, and hardened steel shear pin bushing.

Shear pin adapter list price includes the Shear Pin bushin and grease fitting.

Complete assembly list price includes all components of the Shear Pin assembly as described above. Total list price of any Shear Pin sprocket is the complete assembly list price plus the list price of the desired plate sprocket (from tables of stock sprocket list prices).

replacement Sprockets should be priced as altered stock sprockets directly from List Price and Alteration Charge tables.

Shear pin Components may be ordered separately and will be treated as stock items when conforming to standard specifications and descriptions above.

Pricing Examples:

1. Stock Shear pin Sprocket

To price a 35 tooth shear pin sprocket for 160 chain (160SP35) using SP-26 shear pin assembly with 3 7/16" bore, standard keyway and setscrew:

SP-26 Assembly List Price.....
160A35 List Price .....
total list price .....

See list price Sheet

2. Shear pin adapter and Sprocket for existing hub

To price a "Bolt-on" shear pin adapter and sprocket to replace the sprocket part of existing 50SP40 using SP-19 hub:

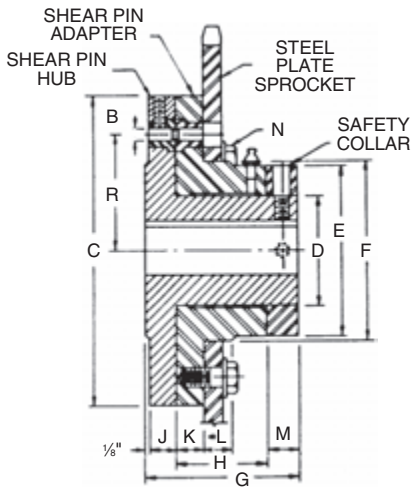
SPA-19 Adapter List Price.....
50A40 List Price .....
total list price .....

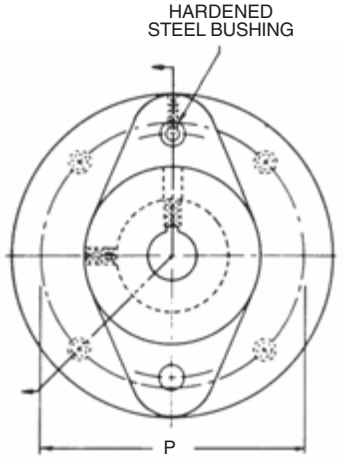
See list price Sheet

Shear Pin Sprockets can also be furnished in other standard styles or made to customer's specifications. Price on application.

It is important that the torque requirement for the selected hub be checked in the torque rating table on page E-6 and the neck diameter of Shear Pin be specified.

Bolt-On Shear Pin Sprockets







Shear Pin Assembly Dimensions (Inches) — Table I

Shear Pin Assembly Number	Shear Pin		Diameters				Length Thru			Hub Flange Thick-ness	Adapt. Flange Thick-ness	Sprocket Seat Width	Bolts		Weights Lbs. (Approx.)	
	Radius	Pin Dia.	Flange	Shear Pin Hub	Adapt. Hub & Collar	Sprocket Seat	Shear Pin Hub	Adapt.	Collar				Number & Size	Bolt Circle	Shear Pin Hub	Shear Pin Adapt.
	R	B	C	D	E	F	G	H	M	J	K	L	N	P		
SP-17	1 13/16	¼	5¼	1¾	2½	2⅝	2 7/16	1⅜	⅜	⅝	⅝	⅞	4 - ⅜"	4	2.7	3.2
SP-18	2 3/16	¼	6	2¼	3¼	3⅜	2 15/16	1¾	½	⅝	⅝	⅝	4 - ⅜"	4¾	4.6	4.7
SP-19	2 5/16	5/16	6¾	2¾	4	4⅛	3 3/16	2⅛	⅝	1 1/16	1 1/16	1 1/16	4 - ½"	5½	7.2	7.6
SP-20	3	⅜	7¾	3¼	4¾	4⅞	4 3/16	2½	¾	1 3/16	1 3/16	1 1/16	4 - ½"	6¼	11.0	11.9
SP-21	3 5/16	7/16	8¾	3¾	5¼	5⅜	4 13/16	2⅞	⅞	1 5/16	1 5/16	1 5/16	4 - ⅝"	7	16.2	16.9
SP-22	3 13/16	½	9¾	4¼	6¼	6⅜	5 3/16	3	1	1 1/16	1 1/16	1 3/16	4 - ⅝"	8	23.3	24.5
SP-23	4	½	10	4½	6½	6⅝	5 11/16	3½	1	1 1/16	1 1/16	1⅜	4 - ⅝"	8¼	26.3	27.7
SP-24	4⅜	9/16	11½	5	7	7⅛	6 5/16	3⅜	1⅛	1 3/16	1 3/16	1⅜	4 - ⅝"	9¼	40.4	38.6
SP-25	4⅞	⅝	12½	5½	8	8⅛	6 15/16	4¼	1¼	1 5/16	1 5/16	1⅜	6 - ⅝"	10¼	52.6	53.6
SP-26	5 5/16	1 1/16	13½	6¼	8¾	8⅞	7 13/16	4⅞	1⅜	1 7/16	1 7/16	1⅜	6 - ⅝"	11¼	66.7	66.8
SP-27	6 1/16	¾	15½	7	10	10⅛	8 1/16	5½	1½	1 9/16	1½	1⅜	6 - ⅝"	12¾	96.5	100.0
SP-28	6 7/16	¾	16¼	7¾	10¾	10⅞	9 1/16	6½	1½	1 9/16	1½	1⅜	6 - ¾"	13½	125.0	115.0
SP-29	7⅛	⅞	17½	8½	12	12⅛	10 1/16	7	1¾	1 13/16	1½	1¾	6 - 1"	14¾	160.0	150.0
SP-30	8⅛	1	20¼	9¾	13¾	13⅜	11 1/16	7½	2	2 1/16	1½	1¾	6 - 1"	17	215.0	207.0
SP-31	8⅞	1⅛	22½	10¾	15	15⅛	12 15/16	8¼	2¼	2 5/16	1½	1¾	6 - 1"	18¾	318.0	265.0

NOTE: Shear Pin "Pin" length equals 2 × "J" dimension.

Sprocket Sizes For Stock Shear Pin Assemblies — Table II

Shear Pin Assembly Number	Hub Bore Range	Minimum Number of Teeth for Single Sprockets												
		Chain Number												
		35	41	40	50	60	80	100	120	140	160	180	200	240
SP-17	1" & UNDER	48	37	37	30	26	—	—	—	—	—	—	—	—
SP-18	1 1/16 - 1¼	55	42	42	34	29	23	—	—	—	—	—	—	—
SP-19	1 5/16 - 1½	61	46	47	38	32	25	21	—	—	—	—	—	—
SP-20	1 7/16 - 1¾	69	53	53	43	36	28	23	—	—	—	—	—	—
SP-21	1 13/16 - 2	78	59	59	48	41	31	26	22	19	—	—	—	—
SP-22	2 1/16 - 2¼	86	65	66	53	45	34	28	24	21	19	17	—	14
SP-23	2 5/16 - 2½	89	67	67	55	46	35	29	25	22	19	18	16	14
SP-24	2 7/16 - 2¾	101	76	77	62	52	40	33	28	24	22	20	18	16
SP-25	2 13/16 - 3	110	83	83	67	56	43	35	30	26	23	21	19	17
SP-26	3 1/16 - 3½	—	98	98	72	61	46	38	32	28	25	23	20	18
SP-27	3 7/16 - 4	—	102	102	82	69	53	43	36	32	28	25	23	20
SP-28	4 1/16 - 4½	—	107	107	86	72	55	45	38	33	29	26	24	21
SP-29	4 7/16 - 5	—	—	—	92	77	59	48	40	35	31	28	26	22
SP-30	5 1/16 - 5½	—	—	—	106	89	68	55	46	40	35	32	29	25
SP-31	5 7/16 - 6	—	—	—	—	98	75	61	51	44	39	35	32	27

Bolt-On
Shear Pin Sprockets

Shear Pin Sprocket Selection

1. The shear pin assembly required is determined by the shaft size. Select the smallest shear pin assembly which will accommodate the required bore. Table on page E-5 contains the bore ranges and minimum sprocket sizes which allow chain clearance over the shear pin assembly flange.
2. Using one of the following formulas, compute the torque load the pin must transmit and find the value in the torque rating table below to obtain the proper shear pin neck diameter.

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM} \quad \text{or} \quad T = \frac{D \times CP \times 1.5}{2}$$

or T = Output of reducer × speed ratio of chain drive × 1.5

Where: T = Torque in pound inches
HP = Horsepower at Sprocket
RPM = Sprocket Speed
D = Pitch Diameter of Sprocket
CP = Chain pull in pounds
1.5 = Safety factor for starting load

Example:

1. Determine the shear pin assembly and pin neck diameter to transmit 20 horsepower at 67 RPM with a 45 tooth, No. 100 sprocket on a 2 15/16" shaft.
   (1) Referring to Table II (page E-5), shear pin assembly SP-25 is required for a 2 15/16" bore. The 45 tooth sprocket is well above the minimum size.
   (2) Torque and neck diameter:

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM}$$

$$T = \frac{20 \times 63{,}025 \times 1.5}{67} = 28{,}200 \text{ lb. in.}$$

Referring to Table III (below) under SP-25, a pin necked to 3/8" shows a torque rating of 29,810 lb. in., which exceeds the 28,200 lb. in. required.

   (3) Order: 100SP45, SP-25 assembly with 2 15/16" bore and 3/8" pin neck diameter.

Shear Pin Torque Ratings — Table III

Shear Pin Neck Diameter (inches)	TORQUE RATING — POUND INCHES														
	Shear Pin Hub Number														
	SP17	SP18	SP19	SP20	SP21	SP22	SP23	SP24	SP25	SP26	SP27	SP28	SP29	SP30	SP31
3/32	728	875	1022	1204	1323	1556	1603								
1/8	1248	1500	1752	2064	2268	2616	2748								
5/32	1976	2375	2774	3268	3591	4142	4351	4750							
3/16	2808	3375	3942	4944	5103	5886	6183	6750	7317						
7/32	3848	4625	5402	6364	6993	8066	8473	9250	10027						
1/4	5200	6250	7300	8600	9450	10900	11450	12500	13550	15200	17300	18400			
9/32			9052	10664	11718	13516	14198	15500	16802	18848	21452	22816			
5/16			11096	13072	14364	16568	17403	19000	20596	23140	26296	27968	30932		
11/32				15824	17388	20056	21068	23000	24932	27968	31832	33856	37440		
3/8				18920	20790	23980	25190	27500	29810	33440	38060	40480	44770	51040	
13/32					24570	28340	29170	32500	35230	39520	44980	47840	52910	60320	
7/16					28350	32700	34350	37500	41650	45600	51900	55200	61050	69600	
15/32						37060	38930	42500	46070	51680	58820	62560	69190	78880	
1/2						42728	44884	49000	53116	59584	67816	72128	79772	90944	
17/32								55000	59620	66880	76120	80960	89540	102080	
9/16								62000	67280	75392	85808	91264	100936	115072	
19/32									73220	82080	93420	99360	109890	125280	136890
5/8									82800	92720	105530	112240	124135	141520	154635
21/32										103360	117640	126120	138380	157760	172380
11/16										112480	128020	136160	150590	171680	187590
23/32											138400	147200	162800	185600	202800
3/4											152240	161920	179080	204160	223080
25/32													195360	222720	243360
13/16													211640	241280	263640
27/32													227920	259840	283920
7/8													244200	278400	304200
29/32														296960	324480
15/16														301600	329550
31/32														338720	370110
1														371200	405600
1 1/16															446160
1 1/8															507000

Solid and Split Detachable Hubs

Type D Sprockets — Stock Detachable Hubs

Type D sprockets consist of a Type A plate sprocket bolted to a detachable hub. A solid or split plate sprocket may be assembled to a solid or split hub. When ordering a Type D sprocket, be sure to select a plate sprocket large enough to allow chain clearance over the hub flange diameter, dimension D.

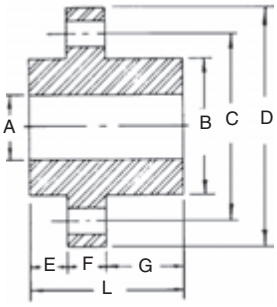
Bolt holes of Type D hubs are drilled for interchangeability. Speed ratios may be changed simply by removing the plate sprocket and substituting another with a different number of teeth. When worn, the sprocket may be reversed to use the unworn tooth surfaces, increasing the life of the sprocket.

Split Hubs-Cast Iron — Dimensions (Inches)

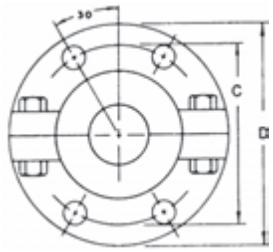
Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F	L	Wt. Lbs. (Approx.)
	Stock	*Maximum				Number	Bolt Size				
102S	1 5/16	1½	3	4	5	4	7/16	1¾	1⅜	3⅛	7.7
103S	1 5/16	2¼	4	5 1/16	6	4	½	2	1½	3½	14.5
104S	2 5/16	2½	4½	5¾	7	4	⅝	2¼	1¾	4	18.3
105S	2 9/16	2¾	5	6¼	7½	4	⅝	2¼	1⅞	4⅛	23.6
106S	2 13/16	3¼	5½	7	8½	4	⅝	2½	2	4½	28.2
107S	3 5/16	3½	6	7½	9	4	⅝	3	1¾	4¾	37.4
108S	3 9/16	4	7	8⅝	10⅜	4	¾	3⅜	1⅞	5¼	55.1
109S	4 1/16	6	10½	13	15½	4	1	4⅛	1¾	5⅞	155.0

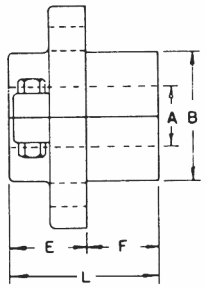
*Maximum bores shown are maximum bores with standard keyseat and setscrew.

To obtain the price of a complete Type D sprocket, add the list price of hub, plus alteration charges and the list price of the desired Type A plate sprocket, including rebore, bolt hole drilling, and splitting charge if desired. These hubs may also be used with Accu-Torch Sprockets.











alteration Charges

See current discount sheet for alteration charges.

Solid Hubs-Steel — Dimensions (Inches)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F	G	L	Wt. Lbs. (Approx.)
	Stock	*Maximum				Number	Bolt Size					
101	⅝	1¾	2½	3⅜	4¼	6	⅜	½	⅜	1⅛	2	3.4
102	1 7/16	2	3	4	5	6	7/16	½	½	1½	2½	5.4
103	1 13/16	2½	4	5 1/16	6	6	½	½	⅝	1⅝	2¾	10.2
104	2 5/16	3	4½	5¾	7	6	⅝	½	¾	2	3¼	14.2
105	2 9/16	3¼	5	6¼	7½	6	⅝	9/16	15/16	2½	4	22.2
106	2 13/16	3¾	5½	7	8½	6	⅝	⅝	1	2⅜	4	28.4
107	3 5/16	4	6	7½	9	6	⅝	⅝	1¼	2⅜	4¼	34.7
108	3 9/16	4½	7	8⅝	10⅜	6	¾	⅝	1⅜	2½	4½	52.4
109	4 1/16	7	10½	13	15½	6	1	¾	1½	2¾	5	143.0

*Maximum bores shown are maximum bores with standard keyseat and setscrew.

All Steel
Instant Split® Sprocket

Manufactured from stock plate sprockets, Martin's Instant Split-Sprocket offers unlimited design and is simply installed with a hand wrench . . . greatly reducing costly downtime.

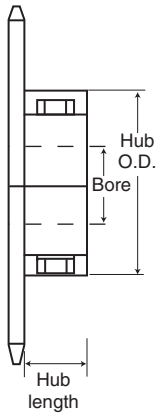


Single-Style B and C — Steel-Instant Split-Sprocket

Hub Number	Bore	Hub O.D.	Hub* Length	Bolts	Wt. Lbs. (Approx.)
S-1	¾" - 1½"	3⅛"	1"	⅜" × 2¼"	1.8
S-2	1⅜" - 2¼"	4⅜"	1¼"	½" × 3"	4.1
S-3	2" - 3"	6"	1⅜"	⅝" × 4½"	8.4
S-4	2¾" - 4"	7⅝"	1½"	¾" × 5½"	14.4
S-5	3¾" - 5"	9¼"	2"	1" × 6"	27.8
S-6	4¾" - 6"	10¼"	2¼"	1" × 6"	35.4
S-7	5¾" - 7"	12½"	2½"	1" × 7"	64.4
S-8	6¼" - 8"	14½"	3"	1" × 8"	98.5

*Add hub length to plate thickness to determine length thru bore. For style C, add hub length × 2.

TOTAL LIST PRICE OF Martin SPLIT-SPROCKET IS SIMPLY THE HUB PRICE PLUS THE PLATE PRICE.

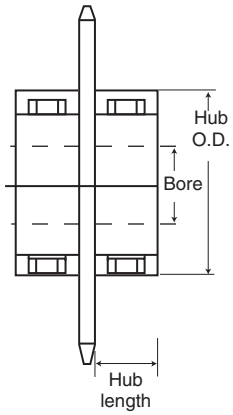


PRICING EXAMPLE STYLE B

120B45 Split with S-3 Hub, 2 15/16" Bore, KW & SS

S-3 Hub
120A45 Plate

SEE HUB LIST
+ SEE PLATE LIST
TOTAL LIST PRICE



PRICING EXAMPLE STYLE C

120C45 Split with S-3 Hubs, 2 15/16" Bore, KW & SS

Two S-3 Hubs
120A45 Plate

SEE HUB LIST
+ SEE PLATE LIST
TOTAL LIST PRICE

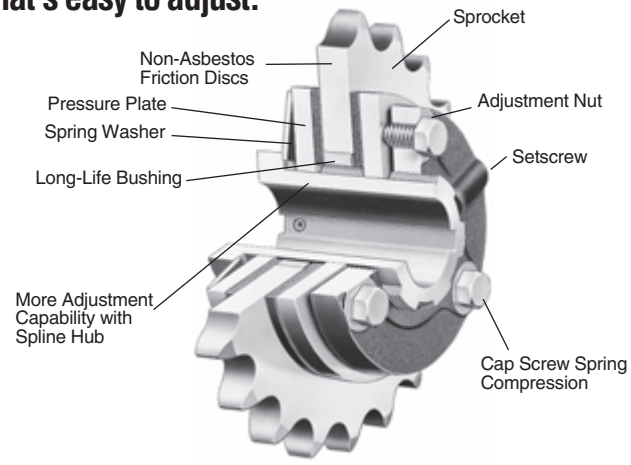
Instant Split Hubs are for use with plate sprockets only. For multiple strand split sprockets, consult Martin.

Sprocket Size For Instant Split Hubs

Split Hub No.	Bore	Minimum Number of Teeth for Single Sprockets										
		Chain Number										
		40	50	60	80	100	120	140	160	180	200	240
S-1	¾" - 1½"	28	23	20	16	—	—	—	—	—	—	—
S-2	1⅜" - 2¼"	38	30	26	20	17	15	14	—	—	—	—
S-3	2" - 3"	46	37	32	25	20	18	16	15	14	—	—
S-4	2¾" - 4"	—	48	40	30	25	21	19	17	16	15	12
S-5	3¾" - 5"	—	—	—	—	30	25	22	20	18	17	14
S-6	4¾" - 6"	—	—	—	—	32	27	24	22	19	18	15
S-7	5¾" - 7"	—	—	—	—	—	32	28	25	22	21	18
S-8	6¼" - 8"	—	—	—	—	—	—	—	28	25	23	20

Torque-Limiter Clutches

Martin TORQUE-LIMITER clutch offers thrifty overload protection that's easy to adjust.



Here is low cost protection for your machinery . . . a torque limiting clutch that is easy to install.

Torque-Limiter clutches feature an exclusive "Easy-Set Adjustment." With "Easy-Set," torque adjustment is accomplished quickly! The need for hammer and block, brute strength, and spanner wrenches is eliminated.

These simple steps and the job is done:

1. Snug up the adjusting nut, finger tight, locate set screw over nearest spline notch, and tighten. See table at right.
2. Tighten three cap screws until heads bottom — with a small wrench; this gives maximum torque.
3. For less torque — back off the cap screws, loosen the set screw, back off adjusting nut to one of the six spline notches as required, and retighten set screw and cap screws.

"Easy-Set Adjustment" not only simplifies installation, it provides solid support for pressure plates by compression at their peripheries.

The Torque-Limiter clutch gives machinery permanent protection against overloads during starting, reversing, or driving — by slipping at any desired load. It resumes driving without resetting when the overload is relieved. It is simple in design, compact, efficient, and built for long life. It provides low cost torque limiting service for a wide variety of applications. No lubrication . . . minimum maintenance.

Starting shock from electric motors is a major cause of maintenance of moving parts. Torque-Limiter clutches provide a cushion by slipping until the torque drops to a pre-set level. They can be set to reduce shock loads on motors and driven equipment during reversing or inching. They provide mechanical protection against breakage due to sudden overload — by slipping when the pre-set torque limit is reached.

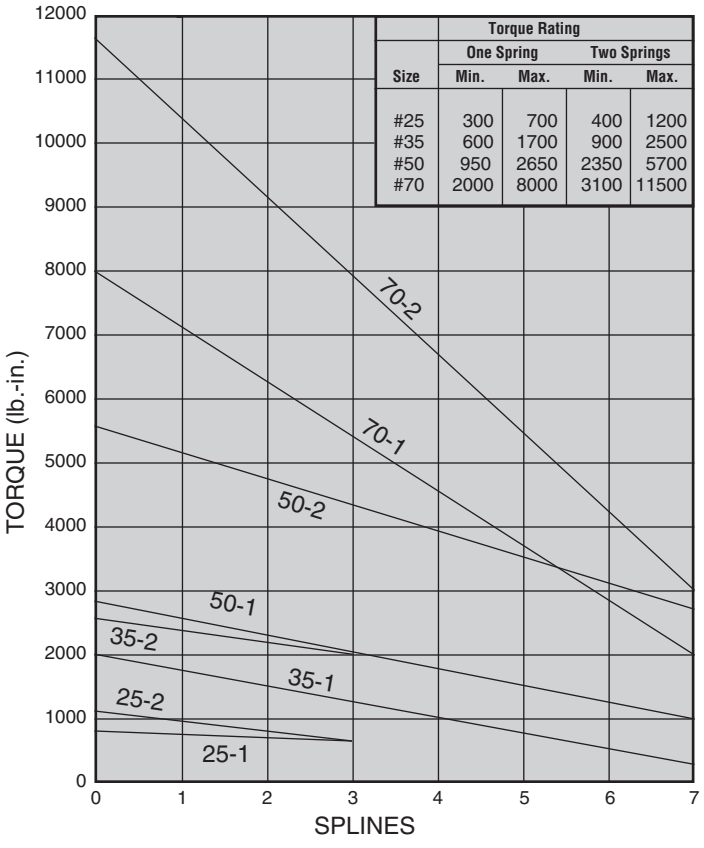
Torque-Limiter clutches may be used with a sprocket, gear, sheave, flange, or other driven member. It is recommended that the rubbing sides of the driven member be ground to provide a smooth rubbing surface of 63 to 125 micro-inches. See torque rating table on following page.

The driven member is mounted on an oil-impregnated bushing and clamped between two, high quality friction discs by spring pressure. Each Torque-Limiter unit, completely assembled, contains one spring. Higher torque ratings can be obtained by the use of a second spring nested within the original spring. See rating table on following page.

When an overload occurs, the driven member slips between long-life, clutch-type friction discs. After slipping has started, it will continue at approximately 90% of the torque setting, due to the lower coefficient of friction when slipping, until the overload condition has been corrected.

TORQUE-LIMITER CLUTCH CALIBRATION

Size	Torque Rating			
	One Spring		Two Springs	
	Min.	Max.	Min.	Max.
#25	300	700	400	1200
#35	600	1700	900	2500
#50	950	2650	2350	5700
#70	2000	8000	3100	11500



note:
Graph indicates approximate rated torque vs. number of splines adjusting nut is backed off from finger tight.

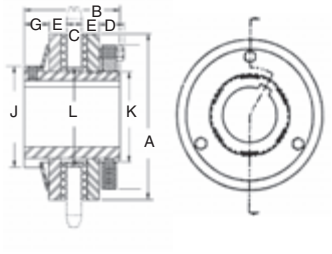
Torque-Limiter Clutches

TORQUE-LIMITER CLUTCHES



Each assembled unit contains one spring. Higher ratings can be obtained by ordering a second spring to nest in the original one. Bushings need to be ordered separately, if required.

The rubbing sides of the center member should be ground parallel — 63 to 125 micro-inches.



Stock Plate Sprockets with Ground Face and Bored to Fit the Martin Torque Limiter

UNIT TT25

Sprocket Size
35TTA25-25
35TTA26-25
40TTA20-25
40TTA22-25
40TTA24-25
40TTA28-25
40TTA30-25
50TTA17-25
50TTA21-25
50TTA22-25

UNIT TT35

Sprocket Size
35TTA35-35
35TTA40-35
40TTA28-35
40TTA30-35
40TTA32-35
50TTA22-35
50TTA24-35
50TTA25-35
50TTA26-35
60TTA18-35
60TTA20-35

UNIT TT50

Sprocket Size
40TTA35-50
50TTA30-50
50TTA32-50
60TTA25-50
60TTA26-50
60TTA28-50
60TTA30-50
80TTA20-50
80TTA22-50
80TTA24-50

UNIT TT70

Sprocket Size
60TTA36-70
80TTA26-70
80TTA28-70
80TTA30-70
80TTA36-70
100TTA22-70
100TTA24-70

Torque-Limiter Clutch Ratings

Size No.	Avg. Wt.	Torque Rating ▲ (Pound-Inches) With One Spring Min.	With One Spring Max.	With Two Springs** Min	With Two Springs** Max	A	B	C Min.	C Max.	D	E	G ✤	H	J	K +.000 −.002 Spline O. D.	L +.003 −.000 Spkt. Bore
TT25	1.0	300	700	400	1200	2½	1¾	⅛	1/32	29/64	19/64	19/64	2½	1½	1.368	1.631/1.628
TT35	2.5	600	1700	900	2500	3½	2 1/16	⅛	⅝	45/64	23/64	35/64	3 3/16	1 15/16	1.675	2.006/2.003
TT50	6.0	950	2650	2350	5700	5	2⅞	⅛	⅝	53/64	29/64	21/32	4 5/16	2 13/16	2.625	3.008/3.005
TT70	18.0	2100	8000	3100	11500	7	3⅜	¼	1¼	55/64	31/64	29/32	6	4	3.811	4.197/4.194

▲ Using a center member with rubbing sides ground parallel — 63 to 125 micro-inches. Center member must be clean and free from oil, rust, etc.

** Second spring may be nested in one originally furnished. Order if required.

✤ Nominal for maximum torque setting. For minimum torque setting, add 3/64" for No. 25; 5/64" for No. 35; 3/32" for Nos. 50 and 70. When two springs are used this dimension is increased approximately 1/16" on Nos. 25, 35 and 50 — 3/32" on No. 70.

Stock Bores — Torque Limiters (No KW 1-SS†)

Size No.	Stock Bore	Max. Bore Std. KW*	Max. Bore Shallow KW*
TT25	½	⅞	1
TT35	¾	1 3/16	1¼
TT50	1	1¾	2
TT70	1⅜	2¾	3

† For additional SS see List Price Alterations.

* KW to be cut central w/threaded spline.

Standard Keyways

Torque-Limiter Bore	Keyway	Torque-Limiter Bore	Keyway
½ - 9/16	⅛ × 1/16	1 7/16 - 1¾	3/8 × 3/16
5/8 - ⅞	3/16 × 3/32	1 13/16 - 2¼	½ × ¼
15/16 - 1¼	¼ × ⅛	2 5/16 - 2¾	5/8 × 5/16
1 5/16 - 1⅜	5/16 × 5/32	2 13/16 - 3	¾ × ⅜

Bored to Size Torque Limiters w/Std. KW & 1-SS†

Size No.	Finished Bores															
TT25	½	5/8	¾	⅞												
TT35			¾	⅞	1											
TT50					1	1⅛	1 3/16	1¼	1⅜	1 7/16	1½	1⅝				
TT70										1 7/16	1½		1¾	1 15/16	2	2 7/16

† KW same as std. listed in tables above. For additional SS see List Price.

Unit Size	Sprocket Pitch		Min. Allowable Sprocket Teeth and Length of Bushing Req'd for Chain Number 35	41	40	50	60	80	100	120	140	160
TT25		STOCK ★	25	19	19	16	..	..	..	..	..	..
	Min. Teeth	MTO ●	25	19	19	16	..	..	..	..	..	..
	Bush. Lght. Req'd.		⅛	⅛	¼	¼	..	..	..	..	..	..
TT35		STOCK ★	35	25	26	21	18	15	..	..	..	..
	Min. Teeth	MTO ●●	33	25	26	21	18	15	..	..	..	..
	Bush. Lght. Req'd.		⅛	⅛	¼	¼	⅜	⅜	..	..	..	..
TT50		STOCK ★	48	35	35	29	25	19	..	..	..	..
	Min. Teeth	MTO ●●	46	35	35	29	25	19	..	..	..	..
	Bush. Lght. Req'd.		⅛	⅛	¼	¼	⅜	⅜	..	..	..	..
TT70		STOCK ★	..	..	48	38	33	26	21	18	16	14
	Min. Teeth	MTO ●●	..	..	48	38	33	26	21	18	16	14
	Bush. Lght. Req'd.		..	..	¼	¼	⅜	⅜	½	⅞ ✱	⅞ ✱	1 ◆◆

★ Min. number of teeth on sprocket stocked by Martin which can be used w/Torque-Limiter clutch.

● Min. number of teeth on made-to-order sprocket which will permit chain to clear friction disc.

✱ Use one ⅜" long bushing and one ½" long.

◆◆ Use two ½" long bushings.

SPARE PARTS

TT25 TT50 TT35 TT70	QTY. REQ.*
PRESSURE PLATE	2
FRICTION DISC	2
ADJ. NUT ASSY. & S.S.	1
ADJ. TENSION NUT	3
HUB	1

* PER UNIT



Double Pitch
All Steel Stock Sprockets

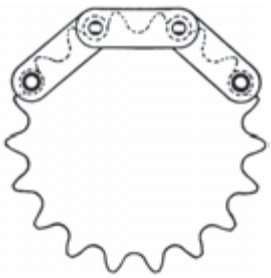


Standard Roller
Double Duty

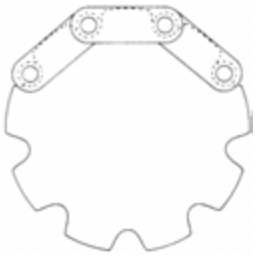


Carrier
Roller

Double-Pitch Sprockets



Standard Rollers



Double Pitch
Single Duty
Made-To-Order



Carrier Rollers

Series C-2000 chains have rollers of the same diameters and widths as American Standard Roller Chains of one half the conveyor chain pitch. Engaged by every other tooth, double duty sprockets have two teeth per chain pitch. During each revolution only half the teeth function effectively. Sprockets with odd numbers of teeth will allow any given tooth to engage only on every other revolution, automatically increasing sprocket life. Double duty sprockets with even number of teeth may be manually advanced one tooth periodically to increase sprocket life. Martin Stock C-2000 series sprockets are furnished double duty only.

Sprockets for the C-2002 series chain with carrier rollers are cut with space cutters or standard hobs for the American Standard roller Chain of the same diameter. Each sprocket tooth meshes with these chains. Double-duty sprockets cannot be made for double pitch chain with Carrier Rollers.

nOte: For drives of 31 teeth or more we recommend using Standard sprockets with series C-2000 chains.

all altered double pitch sprockets requiring a keyway will be furnished with keyway on center line of tooth, unless otherwise specified.

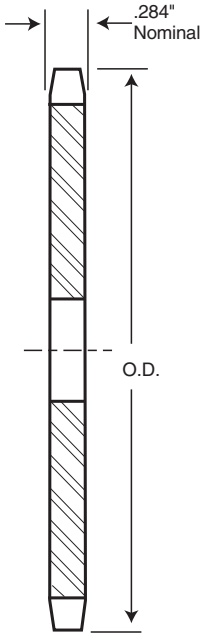
Double Pitch
All Steel Stock Sprockets

1-Inch Double-Pitch

Conveyor or Drive Series — Standard Roller
Double Pitch — 2040/C2040

No. Teeth Actual	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)
						Stock	Rec. Max.	Diameter	Length Thru Bore	
11	5.5	2.000	1.852	2040B11	B	½	13/16	1⅜★	⅞	.34
12	6.0	2.170	2.000	2040B12	B	½	13/16	1 9/16★	⅞	.44
13	6.5	2.330	2.152	2040B13	B	½	2 1/32	1 9/16★	⅞	.48
14	7.0	2.490	2.305	2040B14	B	½	1 1/32	1 11/16★	⅞	.60
15	7.5	2.650	2.458	2040B15	B	⅝	1 7/32	1 23/32	⅞	.66
16	8.0	2.810	2.613	2040B16	B	⅝	1 9/32	1⅞	⅞	.76
17	8.5	2.980	2.768	2040B17	B	⅝	1 5/16	2 3/64	1	1.00
18	9.0	3.140	2.924	2040B18	B	⅝	1 15/32	2 7/32	1	1.16
19	9.5	3.300	3.080	2040B19	B	⅝	1 5/8	2⅜	1	1.36
20	10.0	3.460	3.236	2040B20	B	⅝	1¾	2 35/64	1	1.54
21	10.5	3.620	3.392	2040B21	B	⅝	1 25/32	2 49/64	1	1.74
22	11.0	3.780	3.549	2040B22	B	⅝	1 7/8	2⅞	1	1.92
23	11.5	3.940	3.706	2040B23	B	⅝	2	3	1	2.16
24	12.0	4.100	3.864	2040B24	B	⅝	2¼	3¼	1	2.44
25	12.5	4.260	4.021	2040B25	B	⅝	2¼	3¼	1	2.48
26	13.0	4.420	4.179	2040B26	B	⅝	2¼	3¼	1	2.60
28	14.0	4.740	4.494	2040B28	B	⅝	2¼	3¼	1	2.74
30	15.0	5.060	4.810	2040B30	B	⅝	2¼	3¼	1	2.92

★ Has recessed groove in hub for chain clearance.



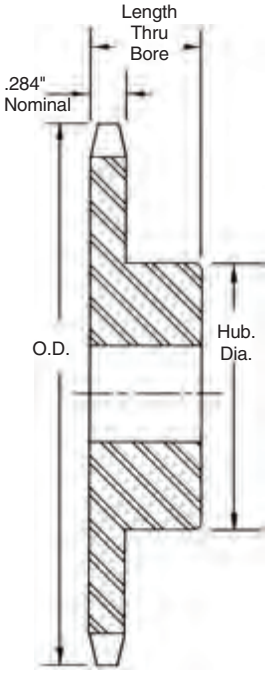
TYPE A

Conveyor Series — Carrier Roller
Double Pitch — 2042/C2042

No. Teeth Actual	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
					Stock	Rec. Max.	Dia.	Length Thru Bore					
8	3.010	2.613	2042B8	B	⅝	1 3/32	1⅞	⅞	0.72	–	–	–	–
9	3.350	2.924	2042B9	B	⅝	1 15/32	2 7/32	⅞	1.02	–	–	–	–
10	3.680	3.236	2042B10	B	⅝	1¾	2 35/64	1	1.50	–	–	–	–
11	4.000	3.549	2042B11	B	⅝	1⅞	2⅝	1	1.68	–	–	–	–
12	4.330	3.864	2042B12	B	⅝	2¼	3 1/16	1	2.22	–	–	–	–
13	4.660	4.179	2042B13	B	⅝	2¼	3¼	1	2.56	–	–	–	–
14	4.980	4.494	2042B14	B	⅝	2¼	3¼	1	2.72	–	–	–	–
15	5.300	4.810	2042B15	B	⅝	2¼	3¼	1	2.90	–	–	–	–
16	5.630	5.126	2042B16	B	⅝	2¼	3¼	1	3.10	A	2042A16	19/32	1.38
17	5.950	5.442	2042B17	B	⅝	2¼	3¼	1	3.40	A	2042A17	19/32	1.66
18	6.270	5.759	2042B18	B	⅝	2¼	3¼	1	3.56	A	2042A18	19/32	1.88
19	6.590	6.076	2042B19	B	⅝	2¼	3¼	1	3.72	A	2042A19	19/32	2.06
20	6.910	6.392	2042B20	B	¾	2⅜	3½	1⅛	4.72	A	2042A20	23/32	2.40
21	7.240	6.710	2042B21	B	¾	2⅜	3½	1⅛	4.84	A	2042A21	23/32	2.62
22	7.560	7.027	2042B22	B	¾	2⅜	3½	1⅛	5.18	A	2042A22	23/32	2.88
23	7.880	7.344	2042B23	B	¾	2⅜	3½	1⅛	5.04	A	2042A23	23/32	3.14
24	8.200	7.661	2042B24	B	¾	2⅜	3½	1⅛	5.58	A	2042A24	23/32	3.22
25	8.520	7.979	2042B25	B	¾	2⅜	3½	1⅛	5.96	A	2042A25	23/32	3.50
26	8.840	8.296	2042B26	B	¾	2⅜	3½	1⅛	6.22	A	2042A26	23/32	3.74
28	9.480	8.931	2042B28	B	¾	2⅜	3½	1⅛	6.78	A	2042A28	23/32	4.76
30	10.110	9.567	2042B30	B	¾	2⅜	3½	1⅛	7.56	A	2042A30	23/32	5.08

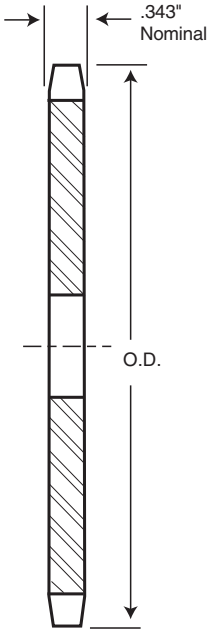
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



TYPE B

1¼-Inch Double-Pitch

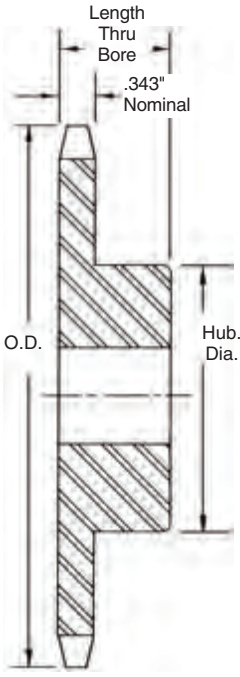


TYPE A

Conveyor or Drive Series — Standard Roller
Double Pitch — 2050/C2050

No. Teeth Actual	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore Stock	Bore Rec. Max.	Hub Dia.	Hub Length Thru Bore	Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
11	5.5	2.500	2.315	2050B11	B	5/8	13/16	1 3/4★	1	0.62	–	–	–	–
12	6.0	2.710	2.500	2050B12	B	5/8	1	1 63/64	1	0.80	–	–	–	–
13	6.5	2.910	2.690	2050B13	B	5/8	1 7/32	1 23/32	1	0.82	–	–	–	–
14	7.0	3.110	2.881	2050B14	B	5/8	1 9/32	1 15/16	1	1.00	–	–	–	–
15	7.5	3.320	3.073	2050B15	B	5/8	1 13/32	2 5/32	1	1.22	–	–	–	–
16	8.0	3.520	3.266	2050B16	B	5/8	1 15/32	2 23/64	1	1.44	–	–	–	–
17	8.5	3.720	3.460	2050B17	B	5/8	1 3/4	2 9/16	1	1.68	–	–	–	–
18	9.0	3.920	3.655	2050B18	B	5/8	1 25/32	2 25/32	1	1.94	–	–	–	–
19	9.5	4.120	3.850	2050B19	B	5/8	1 31/32	2 63/64	1	2.24	–	–	–	–
20	10.0	4.320	4.045	2050B20	B	3/4	2	3	1	2.30	–	–	–	–
21	10.5	4.520	4.241	2050B21	B	3/4	2	3	1	2.40	–	–	–	–
22	11.0	4.720	4.437	2050B22	B	3/4	2	3	1	2.54	–	–	–	–
23	11.5	4.920	4.633	2050B23	B	3/4	2	3	1	2.66	–	–	–	–
24	12.0	5.120	4.830	2050B24	B	3/4	2	3	1 1/4	3.30	A	2050A24	23/32	1.58
25	12.5	5.320	5.026	2050B25	B	3/4	2	3	1 1/4	3.42	A	2050A25	23/32	1.68
26	13.0	5.520	5.223	2050B26	B	3/4	2	3	1 1/4	3.62	A	2050A26	23/32	1.88
28	14.0	5.920	5.617	2050B28	B	3/4	2	3	1 1/4	3.78	A	2050A28	23/32	2.22
30	15.0	6.320	6.012	2050B30	B	3/4	2 1/4	3 1/4	1 1/4	4.58	A	2050A30	23/32	2.54

★ Has recessed groove in hub for chain clearance.



TYPE B

Conveyor Series — Carrier Roller
Double Pitch — 2052/C2052

No. Teeth Actual	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore Stock	Bore Rec. Max.	Hub Dia.	Hub Length Thru Bore	Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
8	3.770	3.266	2052B8	B	5/8	1 19/32	2 23/64	1	1.38	–	–	–	–
9	4.190	3.655	2052B9	B	5/8	1 25/32	2 25/32	1	1.92	–	–	–	–
10	4.600	4.045	2052B10	B	5/8	2	3	1	2.30	–	–	–	–
11	5.010	4.437	2052B11	B	5/8	2	3	1	2.54	–	–	–	–
12	5.420	4.830	2052B12	B	3/4	2	3	1 1/4	3.20	A	2052A12	23/32	1.58
13	5.820	5.223	2052B13	B	3/4	2	3	1 1/4	3.48	A	2052A13	23/32	1.82
14	6.230	5.617	2052B14	B	3/4	2	3	1 1/4	3.88	A	2052A14	23/32	2.28
15	6.630	6.012	2052B15	B	3/4	2 1/4	3 1/4	1 1/4	4.46	A	2052A15	23/32	2.46
16	7.030	6.407	2052B16	B	3/4	2 1/4	3 1/4	1 1/4	4.80	A	2052A16	23/32	2.88
17	7.440	6.803	2052B17	B	3/4	2 1/4	3 1/4	1 1/4	5.34	A	2052A17	23/32	3.28
18	7.840	7.198	2052B18	B	3/4	2 1/4	3 1/4	1 1/4	5.64	A	2052A18	23/32	3.64
19	8.240	7.595	2052B19	B	3/4	2 1/4	3 1/4	1 1/4	6.04	A	2052A19	23/32	4.12
20	8.640	7.991	2052B20	B	3/4	2 1/4	3 1/4	1 1/4	6.48	A	2052A20	23/32	4.72
21	9.040	8.387	2052B21	B	3/4	2 1/4	3 1/4	1 1/4	7.00	A	2052A21	23/32	5.08
22	9.440	8.783	2052B22	B	3/4	2 1/4	3 1/4	1 1/4	7.30	A	2052A22	23/32	5.20
23	9.850	9.180	2052B23	B	1	2 3/4	3 3/4	1 1/4	8.66	A	2052A23	15/16	5.84
24	10.250	9.577	2052B24	B	15/16	2 3/4	3 3/4	1 1/4	9.32	A	2052A24	15/16	6.70
25	10.650	9.973	2052B25	B	15/16	2 3/4	3 3/4	1 1/4	10.30	A	2052A25	15/16	7.54
26	11.050	10.370	2052B26	B	15/16	2 3/4	3 3/4	1 1/4	11.00	A	2052A26	15/16	8.24
28	11.840	11.164	2052B28	B	15/16	2 3/4	3 3/4	1 1/4	11.70	A	2052A28	15/16	8.70
30	12.640	11.958	2052B30	B	15/16	2 3/4	3 3/4	1 1/4	12.90	A	2052A30	15/16	9.92

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

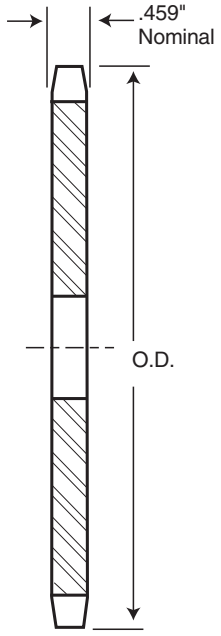
Double Pitch
All Steel Stock Sprockets

1½-Inch Double-Pitch

Conveyor Series — Standard Roller
Double Pitch — 2060/C2060

No. Teeth Actual	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore Stock	Bore Rec. Max.	Hub Dia.	Hub Length Thru Bore	Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
11	5.5	3.000	2.773	2060B11	B	¾	1	2 1/16★	1¼	1.14	–	–	–	–
12	6.0	3.250	3.000	2060B12	B	¾	1¼	2⅜★	1¼	1.46	–	–	–	–
13	6.5	3.490	3.228	2060B13	B	¾	1 5/16	2 5/64	1¼	1.52	–	–	–	–
14	7.0	3.740	3.457	2060B14	B	¾	1 7/16	2 21/64	1¼	1.86	–	–	–	–
15	7.5	3.980	3.688	2060B15	B	¾	1¾	2 19/32	1¼	2.24	–	–	–	–
16	8.0	4.220	3.920	2060B16	B	¾	1 27/32	2 27/32	1¼	2.64	–	–	–	–
17	8.5	4.460	4.152	2060B17	B	¾	2 3/32	3 3/32	1¼	3.08	–	–	–	–
18	9.0	4.700	4.386	2060B18	B	¾	2 5/32	3 1/32	1¼	3.56	–	–	–	–
19	9.5	4.940	4.620	2060B19	B	¾	2 1/32	3½	1¼	3.94	–	–	–	–
20	10.0	5.190	4.854	2060B20	B	¾	2 9/16	3⅞	1¼	4.50	–	–	–	–
21	10.5	5.430	5.089	2060B21	B	¾	2¾	4	1¼	5.02	–	–	–	–
22	11.0	5.670	5.324	2060B22	B	¾	2¾	4	1¼	5.26	–	–	–	–
23	11.5	5.910	5.560	2060B23	B	¾	2¾	4	1¼	5.54	–	–	–	–
24	12.0	6.150	5.796	2060B24	B	¾	2¾	4	1¼	5.90	A	2060A24	23/32	3.02
25	12.5	6.390	6.032	2060B25	B	¾	2¾	4	1¼	6.08	A	2060A25	23/32	3.36
26	13.0	6.630	6.268	2060B26	B	¾	2¾	4	1¼	6.36	A	2060A26	23/32	3.58
28	14.0	7.110	6.741	2060B28	B	¾	2¾	4	1¼	7.02	A	2060A28	23/32	4.12
30	15.0	7.590	7.215	2060B30	B	¾	2¾	4	1¼	7.54	A	2060A30	23/32	4.88

★ Has recessed groove in hub for chain clearance.



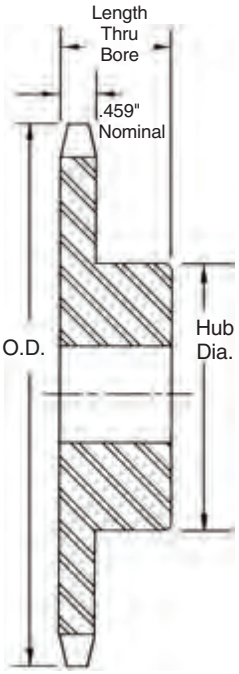
TYPE A

Conveyor Series — Carrier Roller
Double Pitch — 2062/C2062

No. Teeth Actual	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore Stock	Bore Rec. Max.	Hub Dia.	Hub Length Thru Bore	Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
8	4.520	3.920	2062B8	B	¾	1 27/32	2 27/32	1¼	2.60	–	–	–	–
9	5.020	4.386	2062B9	B	¾	2 3/32	3 1/32	1¼	3.48	–	–	–	–
10	5.520	4.854	2062B10	B	¾	2 9/16	3 53/64	1¼	4.54	–	–	–	–
11	6.010	5.324	2062B11	B	¾	2¾	4	1¼	5.20	–	–	–	–
12	6.500	5.796	2062B12	B	¾	2¾	4	1¼	5.70	A	2062A12	23/32	2.98
13	6.990	6.268	2062B13	B	¾	2¾	4	1¼	6.28	A	2062A13	23/32	3.60
14	7.470	6.741	2062B14	B	¾	2¾	4	1¼	6.82	A	2062A14	23/32	4.02
15	7.960	7.215	2062B15	B	¾	2¾	4	1¼	7.48	A	2062A15	23/32	4.76
16	8.440	7.689	2062B16	B	¾	2¾	4	1¼	8.18	A	2062A16	23/32	5.70
17	8.920	8.163	2062B17	B	1	2¾	4	1¼	8.82	A	2062A17	15/16	6.16
18	9.410	8.638	2062B18	B	1	2¾	4	1¼	9.36	A	2062A18	15/16	6.96
19	9.890	9.113	2062B19	B	1	2¾	4¼	1¼	11.10	A	2062A19	15/16	8.00
20	10.370	9.589	2062B20	B	15/16	2¾	4¼	1¼	11.66	A	2062A20	15/16	8.46
21	10.850	10.064	2062B21	B	15/16	2¾	4¼	1¼	13.24	A	2062A21	15/16	8.93
22	11.330	10.540	2062B22	B	15/16	2¾	4¼	1¼	13.78	A	2062A22	15/16	10.74
23	11.810	11.016	2062B23	B	15/16	2¾	4¼	1¼	14.90	A	2062A23	15/16	11.64
24	12.290	11.492	2062B24	B	15/16	2¾	4¼	1¼	15.66	A	2062A24	15/16	12.64
25	12.770	11.968	2062B25	B	15/16	2¾	4¼	1¼	16.80	A	2062A25	15/16	13.78
26	13.250	12.444	2062B26	B	15/16	2¾	4¼	1¾	20.20	A	2062A26	15/16	15.00
28	14.210	13.397	2062B28	B	1¼	2¾	4¼	1¾	21.86	A	2062A28	1¼	17.32
30	15.170	14.350	2062B30	B	1¼	2¾	4¼	1¾	26.00	A	2062A30	1¼	19.50

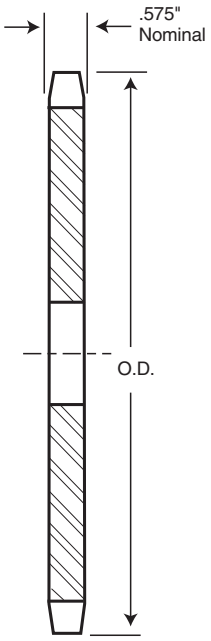
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



TYPE B

2-Inch Double-Pitch

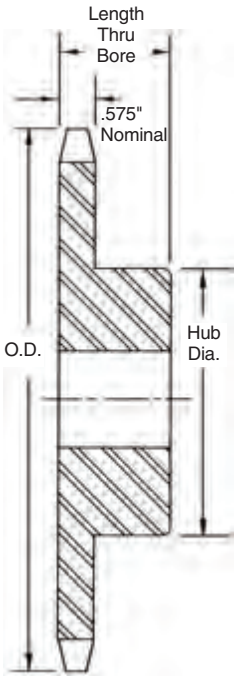


TYPE A

Conveyor or Drive Series — Standard Roller
Double Pitch — 2080/C2080

No. Teeth Actual	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore Stock	Bore Rec. Max.	Hub Dia.	Hub Length Thru Bore	Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
11	5.5	4.010	3.694	2080B11	B	1	1½	2 13/16★	1⅝	2.5	–	–	–	–
12	6.0	4.330	4.000	2080B12	B	1	1 11/16	3⅛★	1⅝	3.2	–	–	–	–
13	6.5	4.660	4.304	2080B13	B	1	1 25/32	2 25/32	1½	3.3	–	–	–	–
14	7.0	4.980	4.610	2080B14	B	1	2⅛	3⅛	1½	4.0	–	–	–	–
15	7.5	5.300	4.917	2080B15	B	1	2 9/32	3 29/64	1½	4.8	–	–	–	–
16	8.0	5.630	5.226	2080B16	B	1	2 17/32	3 51/64	1½	5.7	–	–	–	–
17	8.5	5.950	5.536	2080B17	B	1	2¾	4	1½	6.4	A	2080A17	15/16	3.4
18	9.0	6.270	5.848	2080B18	B	1	2¾	4¼	1½	7.4	A	2080A18	15/16	3.8
19	9.5	6.590	6.160	2080B19	B	1	2¾	4¼	1½	7.7	A	2080A19	15/16	4.3
20	10.0	6.910	6.472	2080B20	B	1	2¾	4¼	1½	8.3	A	2080A20	15/16	4.8
21	10.5	7.230	6.785	2080B21	B	1	2¾	4¼	1¾	9.4	A	2080A21	15/16	5.3
22	11.0	7.560	7.099	2080B22	B	1	2¾	4¼	1¾	10.0	A	2080A22	15/16	5.8
23	11.5	7.880	7.413	2080B23	B	1	2¾	4¼	1¾	10.5	A	2080A23	15/16	6.4
24	12.0	8.200	7.727	2080B24	B	1	2¾	4¼	1¾	11.1	A	2080A24	15/16	7.1
25	12.5	8.520	8.042	2080B25	B	1	2¾	4¼	1¾	12.0	A	2080A25	15/16	7.5
26	13.0	8.840	8.357	2080B26	B	1¼	3¼	4¾	2	14.8	A	2080A26	1 3/16	8.3
28	14.0	9.480	8.988	2080B28	B	1 3/16	3¼	4¾	2	16.6	A	2080A28	1 3/16	9.2
30	15.0	10.110	9.620	2080B30	B	1 3/16	3¼	4¾	2	17.8	A	2080A30	1 3/16	10.7

★ Has recessed groove in hub for chain clearance.



TYPE B

Conveyor Series — Carrier Roller
Double Pitch — 2082/C2082

No. Teeth Actual	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore Stock	Bore Rec. Max.	Hub Dia.	Hub Length Thru Bore	Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
8	6.030	5.226	2082B8	B	1	2 17/32	3 51/64	1¾	6.4	–	–	–	–
9	6.700	5.848	2082B9	B	1	2¾	4¼	1¾	8.2	–	–	–	–
10	7.360	6.472	2082B10	B	1	2¾	4¼	1¾	9.2	–	–	–	–
11	8.010	7.099	2082B11	B	1	2¾	4¼	1¾	10.1	A	2082A11	15/16	5.7
12	8.660	7.727	2082B12	B	1	2¾	4¼	1¾	11.2	A	2082A12	15/16	6.8
13	9.310	8.357	2082B13	B	1¼	3¼	4¾	2	15.0	A	2082A13	1 3/16	7.7
14	9.960	8.988	2082B14	B	1¼	3¼	4¾	2	15.8	A	2082A14	1 3/16	9.1
15	10.610	9.620	2082B15	B	1 3/16	3¼	4¾	2	17.8	A	2082A15	1 3/16	10.7
16	11.250	10.252	2082B16	B	1 3/16	3¼	4¾	2	19.3	A	2082A16	1 3/16	12.4
17	11.900	10.885	2082B17	B	1 3/16	3¼	4¾	2	21.4	A	2082A17	1 3/16	14.1
18	12.540	11.518	2082B18	B	1 3/16	3¼	4¾	2	22.9	A	2082A18	1 3/16	15.4
19	13.190	12.151	2082B19	B	1 3/16	3¼	4¾	2	24.4	A	2082A19	1 3/16	18.0
20	13.830	12.785	2082B20	B	1 3/16	3¼	4¾	2	26.7	A	2082A20	1 3/16	19.2
21	14.470	13.419	2082B21	B	1¼	3¼	4¾	2	28.4	A	2082A21	1¼	20.8
22	15.110	14.053	2082B22	B	1¼	3¼	4¾	2	30.8	A	2082A22	1¼	23.7
23	15.750	14.688	2082B23	B	1¼	3¼	4¾	2	32.2	A	2082A23	1¼	24.9
24	16.390	15.323	2082B24	B	1¼	3¼	4¾	2	34.9	A	2082A24	1¼	27.6
25	17.030	15.958	2082B25	B	1¼	3¼	4¾	2	37.8	A	2082A25	1¼	30.2
26	17.670	16.593	2082B26	B	1¼	3½	5¼	2	41.5	A	2082A26	1¼	32.8
28	18.950	17.863	2082B28	B	1¼	3½	5¼	2	47.7	A	2082A28	1¼	38.6
30	20.230	19.134	2082B30	B	1¼	3½	5¼	2	54.5	A	2082A30	1¼	43.8

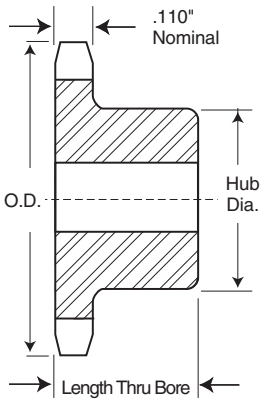
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 25
¼" Pitch

All Steel Stock Sprockets

Martin



TYPE B



alteration Charges

See current discount sheet for alteration charges.

Single - Type B

Single - Type A

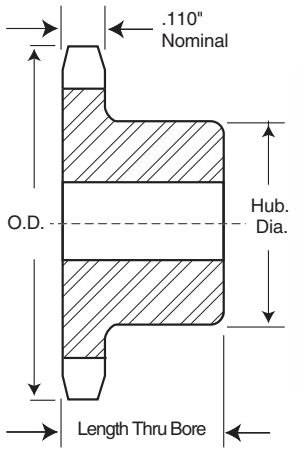
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru Bore	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
9	25B9	0.837	B	¼	¼	7/16	½	0.03	–	–	–	–
10	25B10	0.919	B	¼	¼	½	½	0.03	–	–	–	–
11	25B11	1.002	B	¼	5/16	9/16	½	0.04	–	–	–	–
12	25B12	1.083	B	¼	⅜	⅝	½	0.06	–	–	–	–
13	25B13	1.167	B	¼	7/16	23/32	½	0.07	–	–	–	–
14	25B14	1.246	B	¼	9/16	13/16	½	0.08	–	–	–	–
15	25B15	1.326	B	¼	9/16	57/64	½	0.10	–	–	–	–
16	25B16	1.407	B	¼	9/16	31/32	½	0.12	–	–	–	–
17	25B17	1.487	B	¼	⅝	1 1/32	½	0.14	–	–	–	–
18	25B18	1.568	B	¼	¾	1⅛	½	0.16	A	25A18	¼	0.04
19	25B19	1.648	B	¼	13/16	1 7/32	½	0.19	A	25A19	¼	0.04
20	25B20	1.729	B	¼	⅞	1 9/32	⅝	0.25	A	25A20	¼	0.04
21	25B21	1.809	B	¼	⅞	1⅜	⅝	0.28	A	25A21	⅜	0.04
22	25B22	1.889	B	¼	15/16	1 7/16	⅝	0.31	A	25A22	⅜	0.06
23	25B23	1.969	B	¼	1	1½	⅝	0.32	A	25A23	⅜	0.06
24	25B24	2.049	B	⅜	1	1½	⅝	0.33	A	25A24	⅜	0.08
25	25B25	2.129	B	⅜	1	1½	⅝	0.34	A	25A25	⅜	0.08
26	25B26	2.209	B	⅜	1	1½	⅝	0.35	A	25A26	⅜	0.09
28	25B28	2.369	B	⅜	1	1½	⅝	0.36	A	25A28	⅜	0.10
30	25B30	2.529	B	⅜	1	1½	⅝	0.38	A	25A30	⅜	0.12
32	25B32	2.688	B	⅜	1	1½	⅝	0.40	A	25A32	⅜	0.14
35	–	2.928	–	–	–	–	–	–	A	25A35	⅜	0.16
36	25B36	3.008	B	⅜	1	1½	¾	0.50	A	25A36	⅜	0.18
40	25B40	3.327	B	½	1⅜	2	¾	0.53	A	25A40	½	0.20
42	–	3.486	–	–	–	–	–	–	A	25A42	½	0.24
45	25B45	3.725	B	½	1⅜	2	¾	0.56	A	25A45	½	0.25
48	25B48	3.964	B	½	1⅜	2	¾	0.56	A	25A48	½	0.32
54	25B54	4.442	B	½	1⅜	2	¾	1.00	A	25A54	½	0.38
60	25B60	4.920	B	½	1⅜	2	¾	1.10	A	25A60	½	0.54
70	25B70	5.717	B	½	1⅜	2	¾	1.25	–	–	–	–
72	25B72	5.876	B	½	1⅜	2	¾	1.30	A	25A72	½	0.74

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Martin

Stainless Steel Stock Sprockets

No. 25 ¼" Pitch



TYPE B



STAINLESS STEEL

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B — Stainless

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru	
9	25B9SS	0.837	B	¼	¼	7/16	½	0.03
10	25B10SS	0.919	B	¼	¼	½	½	0.03
11	25B11SS	1.001	B	¼	5/16	9/16	½	0.03
12	25B12SS	1.083	B	¼	⅜	⅝	½	0.06
13	25B13SS	1.164	B	¼	7/16	23/32	½	0.07
14	25B14SS	1.245	B	¼	9/16	13/16	½	0.08
15	25B15SS	1.326	B	¼	9/16	57/64	½	0.10
16	25B16SS	1.407	B	¼	9/16	31/32	½	0.12
17	25B17SS	1.487	B	¼	⅝	1 1/32	½	0.14
18	25B18SS	1.568	B	¼	¾	1⅛	½	0.16
19	25B19SS	1.648	B	¼	13/16	1 7/32	½	0.19
20	25B20SS	1.728	B	¼	⅞	1 9/32	⅝	0.25
21	25B21SS	1.809	B	¼	⅞	1⅜	⅝	0.28
22	25B22SS	1.889	B	¼	15/16	1 7/16	⅝	0.31
23	25B23SS	1.969	B	¼	1	1½	⅝	0.32
24	25B24SS	2.049	B	⅜	1	1½	⅝	0.33
25	25B25SS	2.129	B	⅜	1	1½	⅝	0.34
26	25B26SS	2.209	B	⅜	1	1½	⅝	0.35
28	25B28SS	2.369	B	⅜	1	1½	⅝	0.36
30	25B30SS	2.529	B	⅜	1	1½	⅝	0.38
32	25B32SS	2.688	B	⅜	1	1½	⅝	0.40
35	25B35SS	2.928	B	⅜	1	1½	¾	0.48
36	25B36SS	3.008	B	⅜	1	1½	¾	0.50
40	25B40SS	3.327	B	½	1⅜	2	¾	0.53
45	25B45SS	3.725	B	½	1⅜	2	¾	0.56
60	25B60SS	4.920	B	½	1⅜	2	¾	1.10

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with key way and setscrew added) will be supplied with stainless setscrew.

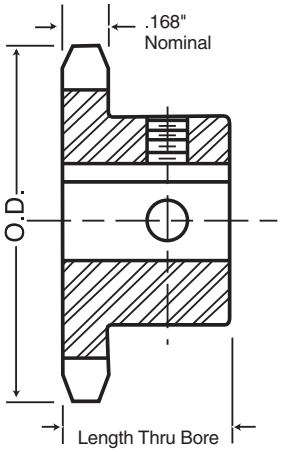
No. 35 ⅜" Pitch

All Steel Stock Sprockets

Single - Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	35BS9	1.260	¾	0.10	★⅜
10	35BS10	1.380	¾	0.11	★⅜ — ★½ — † ⅝
11	35BS11	1.500	¾	0.15	★⅜ — ★½ — † ⅝ — † ¾
12	35BS12	1.630	¾	0.18	— ★½ — ⅝ — † ¾
13	35BS13	1.750	¾	0.20	— ★½ — ⅝ — ¾
14	35BS14	1.870	¾	0.22	— ★½ — ⅝ — ¾
15	35BS15	1.990	¾	0.24	— ★½ — ⅝ — ¾ — ⅞ — 1
16	35BS16	2.110	¾	0.29	— ★½ — ⅝ — ¾ — ⅞ — 1
17	35BS17	2.230	¾	0.36	— ★½ — ⅝ — ¾ — ⅞ — 1
18	35BS18	2.350	¾	0.39	— ★½ — ⅝ — ¾ — ⅞ — 1
19	35BS19	2.470	¾	0.44	— ★½ — ⅝ — ¾ — — 1
20	35BS20	2.590	¾	0.51	— ★½ — ⅝ — ¾ — — 1
21	35BS21	2.710	⅞	0.75	— ★½ — ⅝ — ¾ — — 1
22	35BS22	2.830	⅞	0.78	— ★½ — ⅝ — ¾ — — 1
23	35BS23	2.950	⅞	0.78	— ★½ — ⅝ — ¾ — — 1
24	35BS24	3.070	⅞	0.79	— ★½ — ⅝ — ¾ — — 1
25	35BS25	3.190	⅞	0.80	— ★½ — ⅝ — ¾ — — 1
26	35BS26	3.310	⅞	0.84	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
27	35BS27	3.430	⅞	0.88	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
28	35BS28	3.550	⅞	0.86	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
30	35BS30	3.790	⅞	0.96	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
32	35BS32	4.030	⅞	1.14	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
35	35BS35	4.390	⅞	1.38	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
36	35BS36	4.510	⅞	1.41	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
40	35BS40	4.990	1	1.56	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
42	35BS42	5.230	1	1.64	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
45	35BS45	5.590	1	1.74	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
48	35BS48	5.950	1	1.86	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
54	35BS54	6.660	1	1.98	— ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
60	35BS60	7.380	1	2.34	— ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
70	35BS70	8.580	1	3.14	— ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
72	35BS72	8.810	1	3.30	— ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
80	35BS80	9.770	1	3.94	— ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
84	35BS84	10.250	1	4.26	— ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
96	35BS96	11.680	1	5.22	— ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼
112	35BS112	13.590	1	6.50	— ¾ — ⅞ — 1 — 1⅛ — 1 3⁄16 — 1¼

★ Indicates no keyway. (2) ¼" setscrews only in ½" & ⅜" bore.
† Keyway with Setscrew at 90°.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



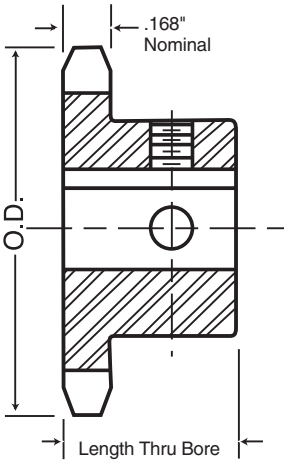
TYPE BS



BORED-TO-SIZE

All Steel Stock Sprockets

No. 35 3/8" Pitch



TYPE BS



BORED-TO-SIZE

SABER TOOTH®

No. 35-Hardened Teeth — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	35BS9HT	1.260	3/4	0.10	★3/8
10	35BS10HT	1.380	3/4	0.11	★3/8 — ★1/2 — † 5/8
11	35BS11HT	1.500	3/4	0.15	★3/8 — ★1/2 — † 5/8 — † 3/4
12	35BS12HT	1.630	3/4	0.18	— ★1/2 — 5/8 — † 3/4
13	35BS13HT	1.750	3/4	0.20	— ★1/2 — 5/8 — 3/4
14	35BS14HT	1.870	3/4	0.22	— ★1/2 — 5/8 — 3/4
15	35BS15HT	1.990	3/4	0.24	— ★1/2 — 5/8 — 3/4 — 7/8 — 1
16	35BS16HT	2.110	3/4	0.29	— ★1/2 — 5/8 — 3/4 — 7/8 — 1
17	35BS17HT	2.230	3/4	0.36	— ★1/2 — 5/8 — 3/4 — 7/8 — 1
18	35BS18HT	2.350	3/4	0.39	— ★1/2 — 5/8 — 3/4 — 7/8 — 1
19	35BS19HT	2.470	3/4	0.44	5/8 — 3/4 — — 1
20	35BS20HT	2.590	3/4	0.51	5/8 — 3/4 — — 1
21	35BS21HT	2.710	7/8	0.75	5/8 — 3/4 — — 1
22	35BS22HT	2.830	7/8	0.76	5/8 — 3/4 — — 1
23	35BS23HT	2.950	7/8	0.78	5/8 — 3/4 — — 1
24	35BS24HT	3.070	7/8	0.79	5/8 — 3/4 — — 1
25	35BS25HT	3.190	7/8	0.80	5/8 — 3/4 — — 1
26	35BS26HT	3.310	7/8	0.84	5/8 — 3/4 — — 1
28	35BS28HT	3.550	7/8	0.88	5/8 — 3/4 — — 1
30	35BS30HT	3.790	7/8	0.96	5/8 — 3/4 — — 1

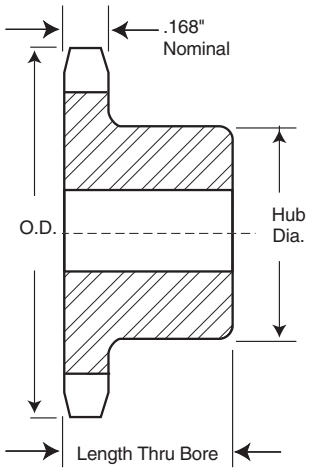
★ Indicates no keyway. (2) 1/4" setscrews only in 1/2" & 3/8" bore at 90°.
† Keyway with Setscrew at 90° & 180°.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.

No. 35 3/8" Pitch

Stainless Steel Stock Sprockets





STAINLESS STEEL **TYPE B**

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B — Stainless

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
9	35B9SS	1.260	B	3/8	3/8	27/32★	3/4	0.10				
10	35B10SS	1.380	B	3/8	9/16	31/32★	3/4	0.15				
11	35B11SS	1.500	B	3/8	9/16	1 1/16★	3/4	0.20				
12	35B12SS	1.630	B	1/2	5/8	1 7/32★	3/4	0.22				
13	35B13SS	1.750	B	1/2	3/4	1 1/4★	3/4	0.25				
14	35B14SS	1.870	B	1/2	7/8	1 1/4	3/4	0.26				
15	35B15SS	1.990	B	1/2	7/8	1 11/32	3/4	0.30				
16	35B16SS	2.110	B	1/2	15/16	1 15/32	3/4	0.40				
17	35B17SS	2.230	B	1/2	1 1/16	1 19/32	3/4	0.43				
18	35B18SS	2.350	B	1/2	1 3/16	1 23/32	3/4	0.50				
19	35B19SS	2.470	B	1/2	1 1/4	1 27/32	3/4	0.56				
20	35B20SS	2.590	B	1/2	1 5/16	1 15/16	3/4	0.68				
21	35B21SS	2.710	B	1/2	1 3/8	2	7/8	0.80				
22	35B22SS	2.830	B	1/2	1 3/8	2	7/8	0.82				
23	35B23SS	2.950	B	1/2	1 3/8	2	7/8	0.87				
24	35B24SS	3.070	B	1/2	1 3/8	2	7/8	0.89				
25	35B25SS	3.190	B	1/2	1 3/8	2	7/8	0.91				
26	35B26SS	3.310	B	1/2	1 3/8	2	7/8	0.93				
28	35B28SS	3.550	B	1/2	1 3/8	2	7/8	1.00				
30	35B30SS	3.790	B	1/2	1 3/8	2	7/8	1.06				
32	35B32SS	4.032	B	1/2	1 3/8	2	7/8	1.24				
35	35B35SS	4.390	B	5/8	1 1/2	2 1/4	7/8	1.56				
36	35B36SS	4.551	B	5/8	1 1/2	2 1/4	7/8	1.60				
40	35B40SS	4.990	B	5/8	1 1/2	2 1/4	1	1.70	A	35A40SS	19/32	1.04
45	35B45SS	5.590	B	5/8	1 1/2	2 1/4	1	2.18	A	35A45SS	19/32	1.26
60	35B60SS	7.380	B	3/4	1 1/2	2 1/4	1	3.00	A	35A60SS	23/32	2.10

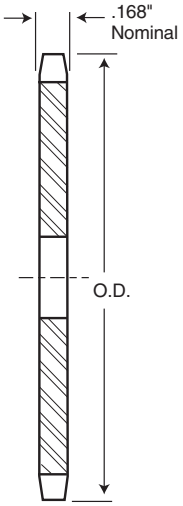
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

All Steel Stock Sprockets

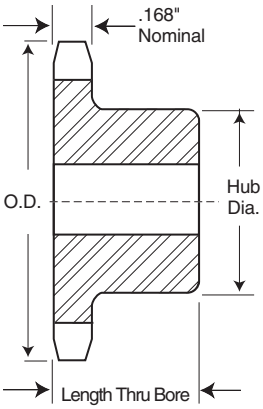
No. 35 3/8" Pitch



TYPE A



TYPE A



TYPE B



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B — Steel

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
8	35B8	1.130	B	3/8	3/8	3/4★	3/4	0.07				
9	35B9	1.260	B	3/8	3/8	27/32★	3/4	0.09				
10	35B10	1.380	B	3/8	9/16	31/32★	3/4	0.14				
11	35B11	1.500	B	3/8	9/16	1 1/16★	3/4	0.17				
12	35B12	1.630	B	1/2	9/16	1 7/32★	3/4	0.20				
13	35B13	1.750	B	1/2	11/16	1 1/4★	3/4	0.23				
14	35B14	1.870	B	1/2	7/8	1 1/4	3/4	0.25				
15	35B15	1.990	B	1/2	7/8	1 11/32	3/4	0.29	A	35A15	1/2	0.10
16	35B16	2.110	B	1/2	15/16	1 15/32	3/4	0.35	A	35A16	1/2	0.12
17	35B17	2.230	B	1/2	1 1/16	1 19/32	3/4	0.42	A	35A17	1/2	0.12
18	35B18	2.350	B	1/2	1 3/16	1 23/32	3/4	0.48	A	35A18	1/2	0.14
19	35B19	2.470	B	1/2	1 1/4	1 27/32	3/4	0.54	A	35A19	1/2	0.16
20	35B20	2.590	B	1/2	1 5/16	1 15/16	3/4	0.59	A	35A20	1/2	0.20
21	35B21	2.710	B	1/2	1 3/8	2	7/8	0.80	A	35A21	1/2	0.20
22	35B22	2.830	B	1/2	1 3/8	2	7/8	0.80	A	35A22	1/2	0.22
23	35B23	2.950	B	1/2	1 3/8	2	7/8	0.82	A	35A23	1/2	0.24
24	35B24	3.070	B	1/2	1 3/8	2	7/8	0.88	A	35A24	1/2	0.26
25	35B25	3.190	B	1/2	1 3/8	2	7/8	0.88	A	35A25	1/2	0.28
26	35B26	3.310	B	1/2	1 3/8	2	7/8	0.90	A	35A26	1/2	0.28
27	35B27	3.430	B	1/2	1 3/8	2	7/8	0.94	A	35A27	1/2	0.34
28	35B28	3.550	B	1/2	1 3/8	2	7/8	0.94	A	35A28	1/2	0.34
30	35B30	3.790	B	1/2	1 3/8	2	7/8	1.02	A	35A30	1/2	0.46
32	35B32	4.030	B	1/2	1 3/8	2	7/8	1.24	A	35A32	5/8	0.46
35	35B35	4.390	B	5/8	1 1/2	2 1/4	7/8	1.50	A	35A35	5/8	0.60
36	35B36	4.510	B	5/8	1 1/2	2 1/4	7/8	1.56	A	35A36	5/8	0.62
40	35B40	4.990	B	5/8	1 1/2	2 1/4	1	1.62	A	35A40	19/32	0.70
42	35B42	5.230	B	5/8	1 1/2	2 1/4	1	1.68	A	35A42	19/32	0.78
45	35B45	5.590	B	5/8	1 1/2	2 1/4	1	1.78	A	35A45	19/32	0.88
48	35B48	5.950	B	5/8	1 1/2	2 1/4	1	1.88	A	35A48	19/32	1.21
54	35B54	6.660	B	5/8	1 1/2	2 1/4	1	2.20	A	35A54	19/32	1.32
60	35B60	7.380	B	3/4	1 1/2	2 1/4	1	2.48	A	35A60	23/32	1.66
70	35B70	8.580	B	3/4	1 1/2	2 1/4	1	3.12	A	35A70	23/32	2.30
72	35B72	8.810	B	3/4	1 1/2	2 1/4	1	3.42	A	35A72	23/32	2.56
80	35B80	9.770	B	3/4	1 1/2	2 1/4	1	3.82	A	35A80	23/32	3.16
84	35B84	10.250	B	3/4	1 1/2	2 1/4	1	4.24	A	35A84	23/32	3.26
96	35B96	11.680	B	3/4	1 1/2	2 1/4	1	5.16	A	35A96	23/32	4.64
112	35B112	13.590	B	3/4	1 1/2	2 1/4	1	6.70	A	35A112	23/32	5.05

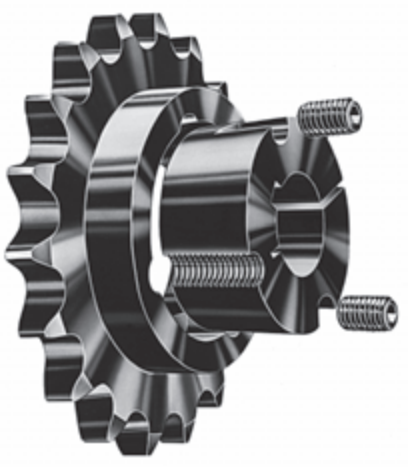
★ Has recessed groove in hub for chain clearance.

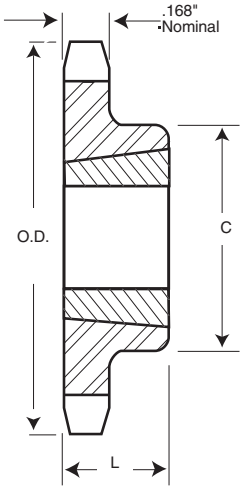
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 35
3/8" Pitch

All Steel Stock Sprockets

Single - Taper Bushed





TYPE B

Single - Taper Bushed

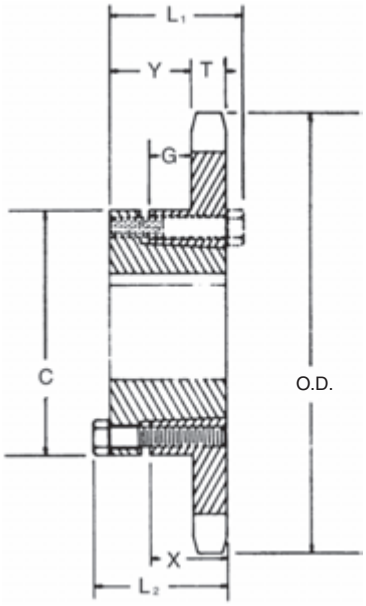
No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
18	35BTB18	1008	2.352	2.159	1	7/8	1 7/8★	B	0.4	0.3
19	35BTB19	1008	2.472	2.278	1	7/8	1 15/16	B	0.5	0.3
20	35BTB20	1008	2.593	2.397	1	7/8	1 15/16	B	0.6	0.3
21	35BTB21	1008	2.713	2.516	1	7/8	2 1/16	B	0.7	0.3
22	35BTB22	1210	2.883	2.635	1 1/4	1	2 3/16★	B	0.8	0.6
23	35BTB23	1210	2.954	2.754	1 1/4	1	2 1/16	B	0.9	0.6
24	35BTB24	1210	3.074	2.873	1 1/4	1	2 1/16	B	0.9	0.6
25	35BTB25	1210	3.194	2.992	1 1/4	1	2 1/16	B	1.2	0.6
26	35BTB26	1610	3.314	3.111	1 5/8	1	2 7/8★	B	1.1	0.9
28	35BTB28	1610	3.553	3.349	1 5/8	1	2 7/8	B	1.2	0.9
30	35BTB30	1610	3.793	3.588	1 5/8	1	3 1/8	B	1.2	0.9
32	35BTB32	1610	4.032	3.826	1 5/8	1	3 1/4	B	1.3	0.9
35	35BTB35	1610	4.392	4.183	1 5/8	1	3 1/4	B	1.4	0.9
36	35BTB36	1610	4.511	4.303	1 5/8	1	3 1/4	B	1.4	0.9
40	35BTB40	1610	4.990	4.786	1 5/8	1	3 1/4	B	1.9	0.9
42	35BTB42	1610	5.229	5.018	1 5/8	1	3 1/4	B	2.0	0.9
45	35BTB45	1610	5.588	5.376	1 5/8	1	3 1/4	B	2.1	0.9
48	35BTB48	1610	5.946	5.734	1 5/8	1	3 1/4	B	2.3	0.9
54	35BTB54	1610	6.663	6.449	1 5/8	1	3 1/4	B	2.6	0.9
60	35BTB60	1610	7.380	7.165	1 5/8	1	3 1/4	B	3.0	0.9
70	35BTB70	1610	8.575	8.358	1 5/8	1	3 1/4	B	3.7	0.9
72	35BTB72	1610	8.814	8.597	1 5/8	1	3 1/4	B	3.9	0.9
80	35BTB80	1610	9.770	9.552	1 5/8	1	3 1/4	B	4.5	0.9
84	35BTB84	1610	10.247	10.029	1 5/8	1	3 1/4	B	4.9	0.9
96	35BTB96	1610	11.680	11.461	1 5/8	1	3 1/4	B	6.0	0.9
112	35BTB112	1610	13.590	13.371	1 5/8	1	3 1/4	B	7.8	0.9

★ Has recessed groove in hub for chain clearance.

All Steel Stock Sprockets

No. 35 3/8" Pitch





QD — TYPE B

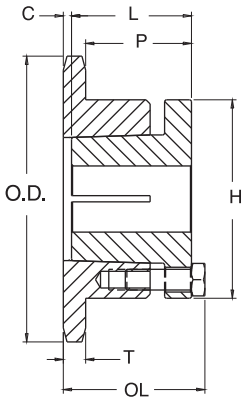
Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	G	X	T	With Hub	Rim Only
19	35JA19	JA	2.470	2.278	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.18	0.28
20	35JA20	JA	2.590	2.397	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.22	0.32
21	35JA21	JA	2.710	2.516	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.24	0.34
22	35JA22	JA	2.830	2.635	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.26	0.36
23	35JA23	JA	2.950	2.754	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.28	0.38
24	35JA24	JA	3.070	3.873	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.30	0.40
25	35JA25	JA	3.190	2.992	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.34	0.44
26	35JA26	JA	3.310	3.111	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.36	0.46
27	35JA27	JA	3.430	3.230	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.38	0.48
28	35JA28	JA	3.550	3.349	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.42	0.52
30	35JA30	JA	3.790	3.588	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.46	0.56
32	35JA32	JA	4.030	3.826	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.68	0.78
35	35JA35	JA	4.390	4.183	B	1¼	1⅛	1⅛	2¹⁄₁₆	⁵³⁄₆₄	²⁹⁄₆₄	⅝	0.168	1.94	1.04
36	35SH36	SH	4.510	4.303	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	2.06	1.06
40	35SH40	SH	4.990	4.780	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	2.18	1.18
42	35SH42	SH	5.230	5.018	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	2.26	1.26
45	35SH45	SH	5.590	5.376	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	2.40	1.40
48	35SH48	SH	5.950	5.734	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	2.58	1.58
54	35SH54	SH	6.660	6.449	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	2.88	1.88
60	35SH60	SH	7.380	7.165	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	3.28	2.28
70	35SH70	SH	8.580	8.358	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	3.94	2.94
72	35SH72	SH	8.810	8.597	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	4.14	3.14
80	35SH80	SH	9.770	9.552	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	4.68	3.68
84	35SH84	SH	10.250	10.029	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	4.86	3.96
96	35SH96	SH	11.680	11.461	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	6.38	5.38
112	35SH112	SH	13.590	13.371	B	1⅝	1⁷⁄₁₆	1⁷⁄₁₆	2¹¹⁄₁₆	1⁵⁄₆₄	⁴¹⁄₆₄	¹³⁄₁₆	0.168	7.60	6.60

No. 35
3/8" Pitch

MST® Sprockets





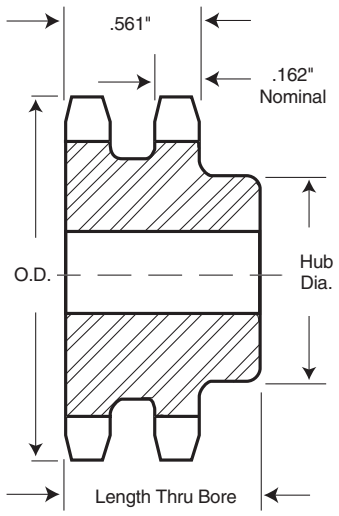
TYPE 3

Single - MST® Sprockets

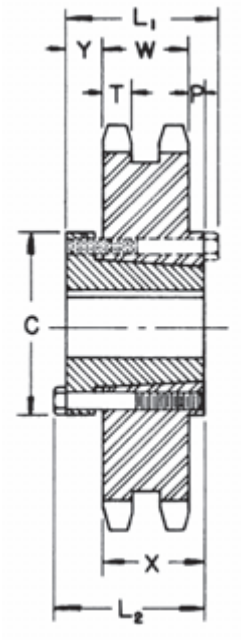
No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
19	35H19	H	2.470	2.278	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.3	0.5
20	35H20	H	2.590	2.397	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.3	0.5
21	35H21	H	2.710	2.516	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.4	0.6
22	35H22	H	2.830	2.635	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.5	0.7
23	35H23	H	2.950	2.754	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.5	0.7
24	35H24	H	3.070	2.873	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.6	0.8
25	35H25	H	3.190	2.992	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.6	0.8
26	35H26	H	3.310	3.111	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.6	0.8
28	35H28	H	3.550	3.349	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.7	0.9
30	35H30	H	3.790	3.588	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.7	0.9
32	35H32	H	4.030	3.826	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.7	0.9
35	35H35	H	4.390	4.183	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.8	1.0
36	35H36	H	4.510	4.303	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.8	1.0
40	35H40	H	4.990	4.780	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.0	1.2
42	35H42	H	5.230	5.018	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.0	1.2
45	35H45	H	5.590	5.376	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.2	1.4
48	35H48	H	5.950	5.734	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.3	1.5
54	35H54	H	6.660	6.449	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.6	1.8
60	35H60	H	7.380	7.165	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	3.1	2.3
70	35H70	H	8.580	8.358	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	3.6	2.8
72	35H72	H	8.810	8.597	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	3.8	3.0
80	35H80	H	9.770	9.552	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	4.6	3.8
84	35H84	H	10.250	10.029	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	4.8	4.0
96	35H96	H	11.680	11.461	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	6.1	5.3
112	35H112	H	13.590	13.371	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	7.6	6.8

All Steel Stock Sprockets

No. 35-2 3/8" Pitch



TYPE B



QD — TYPE C

Double - Type B

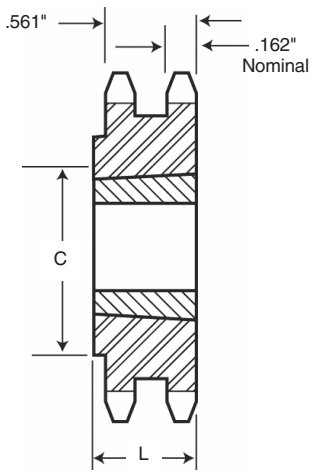
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
12	D35B12H	1.630	B	1/2	9/16	63/64	1 1/4	0.32
13	D35B13H	1.750	B	1/2	11/16	1 7/64	1 1/4	0.36
14	D35B14H	1.870	B	1/2	7/8	1 1/4	1 1/4	0.44
15	D35B15H	1.990	B	1/2	15/16	1 13/32	1 1/4	0.56
16	D35B16H	2.110	B	1/2	15/16	1 15/32	1 1/4	0.64
17	D35B17H	2.230	B	1/2	1 1/16	1 19/32	1 1/4	0.74
18	D35B18H	2.350	B	1/2	1 3/16	1 23/32	1 1/4	0.84
19	D35B19H	2.470	B	1/2	1 5/16	1 7/8	1 1/4	0.96
20	D35B20H	2.590	B	3/4	1 5/16	1 15/16	1 3/8	1.08
21	D35B21H	2.710	B	3/4	1 3/8	2 1/16	1 3/8	1.24
22	D35B22H	2.830	B	3/4	1 7/16	2 3/16	1 3/8	1.42
23	D35B23H	2.950	B	3/4	1 1/2	2 1/4	1 3/8	1.54
24	D35B24H	3.070	B	3/4	1 1/2	2 1/4	1 3/8	1.62
25	D35B25H	3.190	B	3/4	1 1/2	2 1/4	1 3/8	1.66
26	D35B26	3.310	B	3/4	1 3/4	2 1/2	1 3/8	1.98
30	D35B30	3.790	B	3/4	1 3/4	2 1/2	1 3/8	2.34
36	D35B36	4.510	B	3/4	1 3/4	2 1/2	1 3/8	3.00
42	D35B42	5.230	B	3/4	1 3/4	2 1/2	1 3/8	3.80
48	D35B48	5.950	B	3/4	1 3/4	2 1/2	1 3/8	4.66
52	D35B52	6.430	B	3/4	1 3/4	2 1/2	1 3/8	5.40
60	D35B60	7.380	B	3/4	1 3/4	2 1/2	1 3/8	6.84
68	D35B68	8.340	B	3/4	2 3/8	3 1/2	1 1/2	10.01
72	D35B72	8.810	B	3/4	2 3/8	3 1/2	1 1/2	11.04
76	D35B76	9.290	B	3/4	2 3/8	3 1/2	1 1/2	11.94
84	D35B84	10.250	B	3/4	2 3/8	3 1/2	1 1/2	14.98
95	D35B95	11.560	B	1	2 3/8	3 1/2	1 1/2	17.42
96	D35B96	11.680	B	1	2 3/8	3 1/2	1 1/2	18.14
102	D35B102	12.400	B	1	2 3/8	3 1/2	1 1/2	19.92

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.
Sprockets with "H" suffix have hardened teeth.

Double - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Max. Bore	Dimensions L	Dimensions C	Type	Weight Lbs. (Approx.) Rim Only	Weight Lbs. (Approx.) Bushing Only
19	D35BTB19H	1008	2.472	2.278	1	7/8	1 53/64	B	0.6	0.3
20	D35BTB20H	1008	2.593	2.397	1	7/8	1 15/16	B	0.8	0.3
21	D35BTB21H	1008	2.713	2.516	1	7/8	2 1/16	B	1.4	0.3
22	D35BTB22H	1008	2.833	2.635	1	7/8	2 3/16	B	1.7	0.3
24	D35BTB24H	1210	3.074	2.873	1 1/4	1	2 7/16	B	1.8	0.6
26	D35BTB26	1210	3.314	3.111	1 1/4	1	2 5/8	B	2.0	0.6
30	D35BTB30	1610	3.793	3.588	1 5/8	1	3 1/8	B	1.8	0.9
32	D35BTB32	1610	4.032	3.826	1 5/8	1	3 1/4	B	2.0	0.9
35	D35BTB35	1610	4.392	4.183	1 5/8	1	3 1/4	B	2.3	0.9
40	D35BTB40	1610	4.990	4.780	1 5/8	1	3 1/4	B	2.9	0.9
45	D35BTB45	1610	5.588	5.376	1 5/8	1	3 1/4	B	3.2	0.9
48	D35BTB48	1610	5.946	5.734	1 5/8	1	3 5/8	B	3.5	0.9
54	D35BTB54	1610	6.663	6.449	1 5/8	1	3 5/8	B	3.9	0.9
60	D35BTB60	1610	7.380	7.165	1 5/8	1	3 5/8	B	4.9	0.9
70	D35BTB70	1610	8.575	8.358	1 5/8	1	3 5/8	B	6.3	0.9
80	D35BTB80	1610	9.770	9.552	1 5/8	1	3 5/8	B	7.9	0.9
96	D35BTB96	1610	11.680	11.461	1 5/8	1	3 5/8	B	9.9	0.9
112	D35BTB112	1610	13.590	13.371	1 5/8	1	3 5/8	B	10.9	0.9

Sprockets with "H" suffix have hardened teeth.



TAPER BUSHED
TYPE B

Double - Type QD

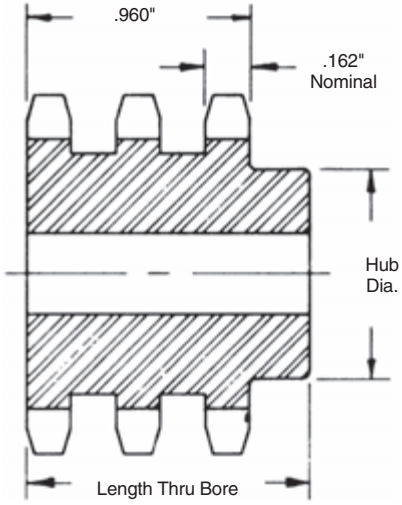
No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	Dimensions L_2	Dimensions C	Dimensions Y	Dimensions P	Dimensions X	Dimensions T	Dimensions W	Weight Lbs. (Approx.) With Hub	Weight Lbs. (Approx.) Rim Onl
68	D35SDS68	SDS	8.340	8.120	C	2	1 1/2	1 1/2	3 3/16	9/16	3/16	3/4	0.162	0.561	8.40	7.40
72	D35SDS72	SDS	8.810	8.597	C	2	1 1/2	1 1/2	3 3/16	9/16	3/16	3/4	0.162	0.561	9.28	8.28
76	D35SDS76	SDS	9.290	9.074	C	2	1 1/2	1 1/2	3 3/16	9/16	3/16	3/4	0.162	0.561	10.32	9.32
84	D35SK84	SK	10.250	10.029	C	2 5/8	2 1/8	2 1/8	3 7/8	5/8	11/16	1 1/4	0.162	0.561	13.94	11.94
95	D35SK95	SK	11.560	11.342	C	2 5/8	2 1/8	2 1/8	3 7/8	5/8	11/16	1 1/4	0.162	0.561	17.22	15.22
96	D35SK96	SK	11.680	11.461	C	2 5/8	2 1/8	2 1/8	3 7/8	5/8	11/16	1 1/4	0.162	0.561	17.74	15.74
102	D35SK102	SK	12.400	12.177	C	2 5/8	2 1/8	2 1/8	3 7/8	5/8	11/16	1 1/4	0.162	0.561	19.76	17.76

No. 35-3
3/8" Pitch

All Steel Stock Sprockets

Triple - Type B

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.
13	E35B13H	1.750	B	½	11/16	1 7/64	1¾	0.50
14	E35B14H	1.870	B	½	⅞	1¼	1¾	0.62
15	E35B15H	1.990	B	½	15/16	1 13/32	1¾	0.78
16	E35B16H	2.110	B	½	15/16	1 15/32	1¾	0.82
17	E35B17H	2.230	B	½	1 1/16	1 19/32	1¾	1.04
18	E35B18H	2.350	B	½	1 3/16	1 23/32	1¾	1.22
19	E35B19H	2.470	B	½	1 5/16	1⅞	1¾	1.40
20	E35B20H	2.590	B	¾	1 5/16	1 15/16	1⅞	1.50
21	E35B21H	2.710	B	¾	1⅜	2 1/16	1⅞	1.72
22	E35B22H	2.830	B	¾	1 7/16	2 3/16	1⅞	1.96
23	E35B23H	2.950	B	¾	1½	2¼	1⅞	2.12
24	E35B24H	3.070	B	¾	1½	2¼	1⅞	2.26
25	E35B25H	3.190	B	¾	1½	2¼	1⅞	2.42
26	E35B26	3.310	B	¾	1½	2½	1⅞	2.78
30	E35B30	3.790	B	¾	1¾	2½	1⅞	3.42
36	E35B36	4.510	B	¾	1¾	2½	1⅞	4.52
42	E35B42	5.230	B	¾	1¾	2½	1⅞	5.88
48	E35B48	5.950	B	¾	1¾	2½	1⅞	7.42
52	E35B52	6.430	B	¾	1¾	2½	1⅞	8.52
60	E35B60	7.380	B	¾	1¾	2½	1⅞	11.22
68	E35B68	8.340	B	¾	2⅜	3½	1⅞	15.38
72	E35B72	8.810	B	¾	2⅜	3½	1⅞	17.34
76	E35B76	9.290	B	¾	2⅜	3½	1⅞	18.90
84	E35B84	10.250	B	¾	2⅜	3½	1⅞	22.82
95	E35B95	11.560	B	1	2½	3¾	2⅛	29.32
96	E35B96	11.680	B	1	2½	3¾	2⅛	30.06
102	E35B102	12.400	B	1	2½	3¾	2⅛	33.36



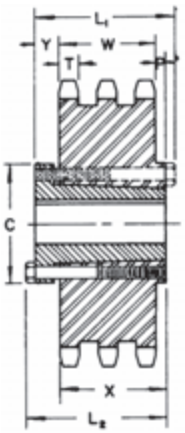
TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 35 stock sprockets with 25 teeth or less have hardened teeth. Sprockets with "H" suffix have hardened teeth.



QD — TYPE C

Triple - Type QD

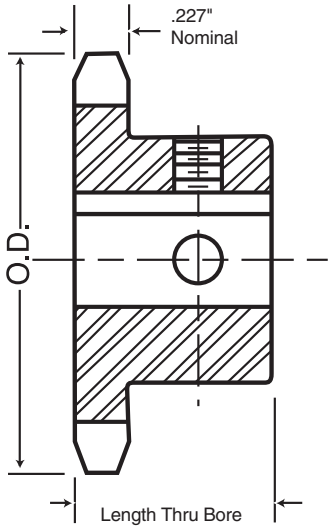
No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	Dimensions L_2	Dimensions C	Dimensions Y	Dimensions P	Dimensions X	Dimensions T	Dimensions W	Weight (Approx.) With Hub	Weight (Approx.) Rim Only
68	E35SK68	SK	8.340	8.120	C	2⅝	2⅛	2⅛	3⅞	⅝	19/64	1¼	0.162	0.960	13.90	11.90
72	E35SK72	SK	8.810	8.597	C	2⅝	2⅛	2⅛	3⅞	⅝	19/64	1¼	0.162	0.960	15.56	13.56
76	E35SK76	SK	9.290	9.074	C	2⅝	2⅛	2⅛	3⅞	⅝	19/64	1¼	0.162	0.960	17.42	15.42
84	E35SK84	SK	10.250	10.029	C	2⅝	2⅛	2⅛	3⅞	⅝	19/64	1¼	0.162	0.960	20.92	18.92
95	E35SK95	SK	11.560	11.342	C	2⅝	2⅛	2⅛	3⅞	⅝	19/64	1¼	0.162	0.960	26.76	24.76
96	E35SK96	SK	11.680	11.461	C	2⅝	2⅛	2⅛	3⅞	⅝	19/64	1¼	0.162	0.960	27.58	25.58
102	E35SK102	SK	12.400	12.177	C	2⅝	2⅛	2⅛	3⅞	⅝	19/64	1¼	0.162	0.960	31.18	29.18

All Steel Stock Sprockets

No. 41 ½" Pitch



BORED-TO-SIZE



TYPE BS

Single - Type BS — 2 Setscrews — Bored-To-Size

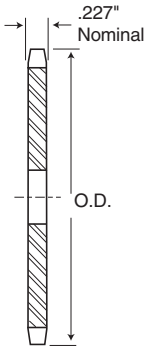
No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	41BS9	1.670	⅞	0.20	—★½ —⅝
10	41BS10	1.840	⅞	0.25	—★½ —⅝
11	41BS11	2.000	⅞	0.32	—★½ —⅝ —¾
12	41BS12	2.170	⅞	0.33	—★½ —⅝ —¾ —⅞
13	41BS13	2.330	⅞	0.43	—★½ —⅝ —¾ —⅞ — 1
14	41BS14	2.490	⅞	0.48	—★½ —⅝ —¾ —⅞ — 1
15	41BS15	2.650	⅞	0.59	—★½ —⅝ —¾ — — 1
16	41BS16	2.810	⅞	0.72	—⅝ —¾ — — 1
17	41BS17	2.970	1	1.00	—⅝ —¾ — — 1
18	41BS18	3.140	1	1.10	—⅝ —¾ — — 1
19	41BS19	3.300	1	1.21	—⅝ —¾ — — 1
20	41BS20	3.460	1	1.39	—⅝ —¾ — — 1
21	41BS21	3.620	1	1.77	—⅝ —¾ — — 1
22	41BS22	3.780	1	1.92	—⅝ —¾ — — 1
23	41BS23	3.940	1	2.18	—⅝ —¾ — — 1
24	41BS24	4.100	1	2.24	—⅝ —¾ — — 1
25	41BS25	4.260	1	2.42	—⅝ —¾ — — 1
26	41BS26	4.420	1	2.46	—⅝ —¾ — — 1
27	41BS27	4.580	1	2.52	—⅝ —¾ — — 1
28	41BS28	4.740	1	2.60	—⅝ —¾ — — 1
30	41BS30	5.060	1	2.76	—⅝ —¾ — — 1
32	41BS32	5.380	1	2.92	—⅝ —¾ — — 1
35	41BS35	5.860	1	3.08	—⅝ —¾ — — 1
36	41BS36	6.020	1	3.28	—⅝ —¾ — — 1
40	41BS40	6.650	1⅛	3.82	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
42	41BS42	6.970	1⅛	3.68	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
45	41BS45	7.450	1⅛	3.94	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
48	41BS48	7.930	1⅛	4.68	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
54	41BS54	8.880	1⅛	5.44	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
60	41BS60	9.840	1⅛	6.54	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
70	41BS70	11.430	1⅜	9.28	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
72	41BS72	11.750	1⅜	9.38	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
80	41BS80	13.030	1⅜	11.28	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
84	41BS84	13.660	1⅜	11.94	—¾ — — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
96	41BS96	15.570	1⅜	14.51	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
112	41BS112	18.120	1⅜	18.81	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½

★ Indicates no keyway. (2) ¼" setscrews only in ½" bore.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

No. 41
½" Pitch

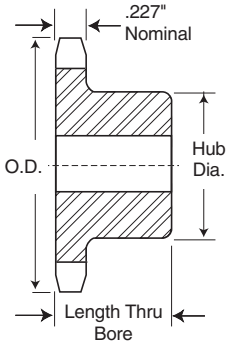
All Steel & Stainless Steel Stock Sprockets

Martin





TYPE A





TYPE B

Single - Type B

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru Bore	Weight Lbs. (Approx.)
6	41B6	1.170	B	⅜	⅜	21/32★	⅞	0.07
7	41B7	1.340	B	⅜	⅜	¾★	⅞	0.10
8	41B8	1.510	B	½	½	63/64★	⅞	0.19
9	41B9	1.670	B	½	⅝	1⅛★	⅞	0.20
10	41B10	1.840	B	½	¾	1¼★	⅞	0.27
11	41B11	2.000	B	½	⅞	1 7/16★	⅞	0.35
12	41B12	2.170	B	½	15/16	1 5/16★	⅞	0.44
13	41B13	2.330	B	½	1	1⅜	⅞	0.50
14	41B14	2.490	B	½	1¼	1¾	⅞	0.57
15	41B15	2.650	B	½	1 5/16	1 29/32	⅞	0.72
16	41B16	2.810	B	⅝	1⅜	2 1/16	⅞	0.91
17	41B17	2.970	B	⅝	1½	2 15/64	1	1.09
18	41B18	3.140	B	⅝	1⅝	2⅜	1	1.25
19	41B19	3.300	B	⅝	1¾	2 15/32	1	1.49
20	41B20	3.460	B	⅝	1⅞	2¾	1	1.64
21	41B21	3.620	B	⅝	1⅞	2⅞	1	1.81
22	41B22	3.780	B	⅝	2	3	1	1.93
23	41B23	3.940	B	⅝	2¼	3 3/16	1	2.25
24	41B24	4.100	B	⅝	2¼	3¼	1	2.33
25	41B25	4.260	B	⅝	2¼	3¼	1	2.46
26	41B26	4.420	B	⅝	2¼	3¼	1	2.50
27	41B27	4.580	B	⅝	2¼	3¼	1	2.56
28	41B28	4.740	B	⅝	2¼	3¼	1	2.64
30	41B30	5.060	B	⅝	2¼	3¼	1	2.80
32	41B32	5.380	B	⅝	2¼	3¼	1	2.96
35	41B35	5.860	B	⅝	2⅜	3¼	1	3.12
36	41B36	6.020	B	⅝	2⅜	3¼	1	3.32
40	41B40	6.650	B	¾	2⅜	3¼	1 1/16	4.06
42	41B42	6.970	B	¾	2⅜	3½	1 1/16	4.10
45	41B45	7.450	B	¾	2⅜	3½	1 1/16	4.18
48	41B48	7.930	B	¾	2⅜	3½	1 1/16	4.92
54	41B54	8.880	B	¾	2⅜	3½	1 1/16	5.68
60	41B60	9.840	B	¾	2⅜	3½	1 1/16	6.78
70	41B70	11.430	B	¾	2¾	4	1 3/16	9.54
72	41B72	11.750	B	¾	2¾	4	1 3/16	9.64
80	41B80	13.030	B	¾	2¾	4	1 3/16	11.54
84	41B84	13.660	B	¾	2¾	4	1 3/16	12.20
96	41B96	15.570	B	1	2¾	4	1 3/16	14.86
112	41B112	18.120	B	1	2¾	4	1 3/16	19.16

Single - Type A

Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
A	41A15	⅝	0.28
A	41A16	⅝	0.34
A	41A17	⅝	0.36
A	41A18	⅝	0.44
A	41A19	⅝	0.46
A	41A20	⅝	0.52
A	41A21	⅝	0.60
A	41A22	⅝	0.66
A	41A23	⅝	0.72
A	41A24	⅝	0.82
A	41A25	⅝	0.88
A	41A26	⅝	0.94
A	41A27	⅝	1.00
A	41A28	⅞	1.08
A	41A30	19/32	1.20
A	41A32	19/32	1.44
A	41A35	19/32	1.70
A	41A36	19/32	1.84
A	41A40	23/32	2.22
A	41A42	23/32	2.50
A	41A45	23/32	2.52
A	41A48	23/32	2.92
A	41A54	23/32	3.54
A	41A60	23/32	4.60
A	41A70	23/32	6.22
A	41A72	23/32	6.32
A	41A80	23/32	8.46
A	41A84	23/32	9.12
A	41A96	15/16	11.84
A	41A112	15/16	15.84

Single - Type B — Stainless

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru Bore	Weight Lbs. (Approx.)
9	41B9SS	1.670	B	½	⅝	1⅛★	⅞	0.20
10	41B10SS	1.840	B	½	¾	1¼★	⅞	0.27
11	41B11SS	2.000	B	½	⅞	1 7/16★	⅞	0.35
12	41B12SS	2.170	B	½	15/16	1 5/16★	⅞	0.44
13	41B13SS	2.330	B	½	1	1⅜	⅞	0.50
14	41B14SS	2.490	B	½	1¼	1¾	⅞	0.57
15	41B15SS	2.650	B	½	1 5/16	1 29/32	⅞	0.72
16	41B16SS	2.810	B	⅝	1⅜	2 1/16	⅞	0.91
17	41B17SS	2.970	B	⅝	1½	2 15/64	1	1.09
18	41B18SS	3.140	B	⅝	1⅝	2⅜	1	1.25
19	41B19SS	3.300	B	⅝	1¾	2 15/32	1	1.49
20	41B20SS	3.460	B	⅝	1⅞	2¾	1	1.64

Single - Type A — Stainless

Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

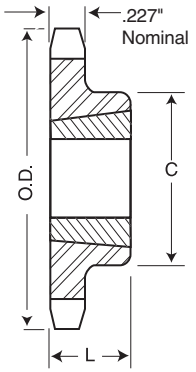
All Steel Stock Sprockets

No. 41 ½" Pitch

Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
14	41BTB14	1008	2.490	2.247	1	⅞	1⅞★	B	0.4	0.3
15	41BTB15	1008	2.650	2.405	1	⅞	1⅞	B	0.5	0.3
16	41BTB16	1008	2.810	2.503	1	⅞	2	B	0.6	0.3
17	41BTB17	1210	2.970	2.721	1¼	1	2⅜★	B	0.7	0.6
18	41BTB18	1210	3.140	2.879	1¼	1	2⅜	B	0.9	0.6
19	41BTB19	1210	3.300	3.038	1¼	1	2½	B	1.1	0.6
20	41BTB20	1610	3.460	3.196	1⅜	1	2⅞★	B	1.1	0.9
21	41BTB21	1610	3.620	3.355	1⅜	1	3★	B	1.2	0.9
22	41BTB22	1610	3.780	3.513	1⅜	1	3	B	1.3	0.9
23	41BTB23	1610	3.940	3.672	1⅜	1	3	B	1.4	0.9
24	41BTB24	1610	4.100	3.831	1⅜	1	3	B	1.4	0.9
25	41BTB25	1610	4.260	3.989	1⅜	1	3	B	1.5	0.9
26	41BTB26	1610	4.420	4.148	1⅜	1	3	B	1.5	0.9
28	41BTB28	1610	4.740	4.466	1⅜	1	3	B	1.7	0.9
30	41BTB30	1610	5.060	4.783	1⅜	1	3	B	1.8	0.9
32	41BTB32	1610	5.380	5.101	1⅜	1	3	B	1.9	0.9
35	41BTB35	1610	5.860	5.578	1⅜	1	3	B	2.3	0.9
36	41BTB36	1610	6.020	5.737	1⅜	1	3	B	2.4	0.9
40	41BTB40	1610	6.650	6.373	1⅜	1	3	B	2.7	0.9
45	41BTB45	1610	7.450	7.168	1⅜	1	3	B	3.5	0.9
48	41BTB48	1610	7.930	7.645	1⅜	1	3	B	4.1	0.9
54	41BTB54	1610	8.880	8.599	1⅜	1	3	B	4.9	0.9
60	41BTB60	1610	9.840	9.554	1⅜	1	3	B	5.7	0.9
70	41BTB70	1610	11.430	11.145	1⅜	1	3	B	7.4	0.9
72	41BTB72	1610	11.750	11.463	1⅜	1	3	B	8.2	0.9
80	41BTB80	1610	13.030	12.736	1⅜	1	3	B	9.6	0.9
96	41BTB96	1610	15.570	15.282	1⅜	1	3	B	13.1	0.9

★ Has recessed groove in hub for chain clearance.

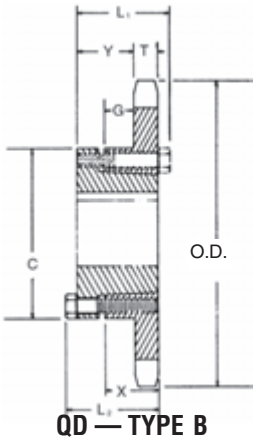


TAPER BUSHED TYPE B



Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	G	X	T	With Hub	Rim Only
15	41JA15	JA	2.650	2.405	B	1¼	1⅛	1⅛	2 1/16	49/64	25/64	5/8	.227	1.22	0.32
16	41JA16	JA	2.810	2.563	B	1¼	1⅛	1⅛	2 1/16	49/64	25/64	5/8	.227	1.30	0.40
17	41JA17	JA	2.980	2.721	B	1¼	1⅛	1⅛	2 1/16	49/64	25/64	5/8	.227	1.40	0.50
18	41JA18	JA	3.140	2.879	B	1¼	1⅛	1⅛	2 1/16	49/64	25/64	5/8	.227	1.50	0.60
19	41JA19	JA	3.300	3.038	B	1¼	1⅛	1⅛	2 1/16	49/64	25/64	5/8	.227	1.58	0.68
20	41SH20	SH	3.460	3.196	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	1.78	0.78
21	41SH21	SH	3.620	3.355	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	1.82	0.82
22	41SH22	SH	3.780	3.513	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.06	1.06
23	41SH23	SH	3.940	3.672	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.14	1.14
24	41SH24	SH	4.100	3.831	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.16	1.16
25	41SH25	SH	4.260	3.989	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.22	1.22
26	41SH26	SH	4.420	4.148	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.26	1.26
27	41SH27	SH	4.580	4.307	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.40	1.40
28	41SH28	SH	4.740	4.466	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.54	1.54
30	41SH30	SH	5.060	4.783	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.58	1.58
32	41SH32	SH	5.380	5.101	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.68	1.68
35	41SH35	SH	5.860	5.578	B	1⅜	1 1/16	1 1/16	2 11/16	1 1/32	37/64	13/16	.227	2.79	1.79
36	41SDS36	SDS	6.020	5.737	B	2	1½	1½	3 3/16	1 3/32	17/32	¾	.227	2.92	1.92
40	41SDS40	SDS	6.650	6.373	B	2	1½	1½	3 3/16	1 3/32	17/32	¾	.227	3.32	2.32
42	41SDS42	SDS	6.970	6.691	B	2	1½	1½	3 3/16	1 3/32	17/32	¾	.227	3.44	2.44
45	41SDS45	SDS	7.450	7.168	B	2	1½	1½	3 3/16	1 3/32	17/32	¾	.227	3.76	2.76
48	41SDS48	SDS	7.930	7.645	B	2	1½	1½	3 3/16	1 3/32	17/32	¾	.227	4.36	3.36
54	41SDS54	SDS	8.890	8.599	B	2	1½	1½	3 3/16	1 3/32	17/32	¾	.227	4.98	3.98
60	41SDS60	SDS	9.840	9.554	B	2	1½	1½	3 3/16	1 3/32	17/32	¾	.227	6.54	5.54
70	41SK70	SK	11.430	11.145	B	2⅝	2⅛	2⅛	3⅜	1 41/64	1 1/32	1¼	.227	9.42	7.42
72	41SK72	SK	11.750	11.463	B	2⅝	2⅛	2⅛	3⅜	1 41/64	1 1/32	1¼	.227	10.02	8.02
80	41SK80	SK	13.030	12.736	B	2⅝	2⅛	2⅛	3⅜	1 41/64	1 1/32	1¼	.227	11.64	9.64
84	41SK84	SK	13.660	13.372	B	2⅝	2⅛	2⅛	3⅜	1 41/64	1 1/32	1¼	.227	12.40	10.40
96	41SK96	SK	15.570	15.281	B	2⅝	2⅛	2⅛	3⅜	1 41/64	1 1/32	1¼	.227	14.82	12.82
112	41SK112	SK	18.120	17.828	B	2⅝	2⅛	2⅛	3⅜	1 41/64	1 1/32	1¼	.227	19.28	17.28



QD — TYPE B



No. 40 ½" Pitch

All Steel Stock Sprockets

Martin

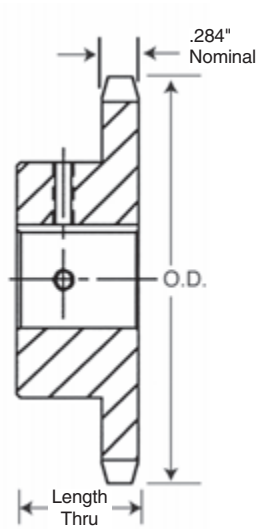
Single - Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	40BS9	1.670	⅞	0.16	★½ — ⅝
10	40BS10	1.840	⅞	0.24	★½ — ⅝ — ¾
11	40BS11	2.000	⅞	0.28	★½ — ⅝ — ¾ — ⅞
12	40BS12	2.170	⅞	0.34	★½ — ⅝ — ¾ — ⅞ — 1
13	40BS13	2.330	⅞	0.45	★½ — ⅝ — ¾ — ⅞ — 1
14	40BS14	2.490	⅞	0.51	★½ — ⅝ — ¾ — ⅞ — 1 — 1⅛
15	40BS15	2.650	⅞	0.53	★½ — ⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼
16	40BS16	2.810	⅞	0.66	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼
17	40BS17	2.970	1	0.88	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼
18	40BS18	3.140	1	1.03	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½
19	40BS19	3.300	1	1.17	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½
20	40BS20	3.460	1	1.33	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½
21	40BS21	3.620	1	1.53	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½
22	40BS22	3.780	1	1.66	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½
23	40BS23	3.940	1	1.92	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½
24	40BS24	4.100	1	2.10	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½
25	40BS25	4.260	1	2.22	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
26	40BS26	4.420	1	2.34	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
27	40BS27	4.580	1	2.42	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
28	40BS28	4.740	1	2.50	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
29	40BS29	4.900	1	2.60	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
30	40BS30	5.060	1	2.70	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
31	40BS31	5.220	1	2.88	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
32	40BS32	5.380	1	3.00	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
33	40BS33	5.540	1	3.03	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
34	40BS34	5.700	1	3.11	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
35	40BS35	5.860	1	3.20	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
36	40BS36	6.020	1	3.39	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
37	40BS37	6.170	1	3.45	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
38	40BS38	6.330	1	3.50	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
39	40BS39	6.490	1	4.00	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
40	40BS40	6.650	1⅛	4.28	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
41	40BS41	6.810	1⅛	4.58	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
42	40BS42	6.970	1⅛	4.64	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
43	40BS43	7.130	1⅛	4.80	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
44	40BS44	7.290	1⅛	4.96	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
45	40BS45	7.450	1⅛	5.06	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
46	40BS46	7.610	1⅛	5.19	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
47	40BS47	7.770	1⅛	5.26	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
48	40BS48	7.930	1⅛	5.66	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
49	40BS49	8.090	1⅛	5.72	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
50	40BS50	8.250	1⅛	5.78	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
51	40BS51	8.410	1⅛	5.90	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
52	40BS52	8.570	1⅛	5.94	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
53	40BS53	8.730	1⅛	6.12	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
54	40BS54	8.880	1⅛	6.24	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
55	40BS55	9.040	1⅛	6.66	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
56	40BS56	9.200	1⅛	6.71	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
57	40BS57	9.360	1⅛	6.94	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
58	40BS58	9.520	1⅛	7.17	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
59	40BS59	9.680	1⅛	7.38	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
60	40BS60	9.840	1⅛	7.68	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
70	40BS70	11.430	1¼	10.80	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
72	40BS72	11.750	1¼	11.30	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
80	40BS80	13.030	1¼	13.20	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
84	40BS84	13.660	1¼	13.84	— ¾ — ⅞ — 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
96	40BS96	15.570	1¼	17.44	— 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½
112	40BS112	18.120	1¼	22.45	— 1 — 1⅛ — 1⅜₁₆ — 1¼ — — 1⁷⁄₁₆ — 1½

★ Indicates no keyway. (2) ¼" setscrews only.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



BORED-TO-SIZE



TYPE BS

All Steel Stock Sprockets

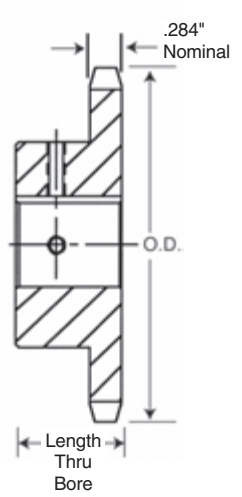
No. 40 ½" Pitch



SABER TOOTH®

No. 40-Hardened Teeth — 2 Setscrews — Bored-To-Size

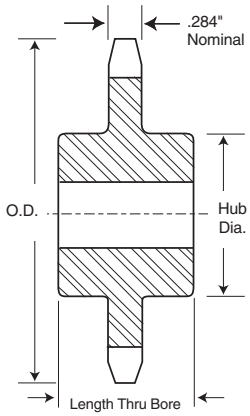
No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	40BS9HT	1.670	⅞	0.16	★½— ⅝
10	40BS10HT	1.840	⅞	0.24	★½— ⅝— ¾
11	40BS11HT	2.000	⅞	0.28	★½— ⅝— ¾—⅞
12	40BS12HT	2.170	⅞	0.34	★½— ⅝— ¾—⅞—1
13	40BS13HT	2.330	⅞	0.45	★½— ⅝— ¾—⅞—1
14	40BS14HT	2.490	⅞	0.51	★½— ⅝— ¾—⅞—1—1⅛
15	40BS15HT	2.650	⅞	0.53	★½— ⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼
16	40BS16HT	2.810	⅞	0.66	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼
17	40BS17HT	2.970	1	0.88	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼
18	40BS18HT	3.140	1	1.03	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼—1⅜ —1⁷⁄₁₆—1½
19	40BS19HT	3.292	1	1.17	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼—1⅜ —1⁷⁄₁₆—1½
20	40BS20HT	3.460	1	1.33	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼—1⅜ —1⁷⁄₁₆—1½
21	40BS21HT	3.620	1	1.53	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼—1⅜ —1⁷⁄₁₆—1½
22	40BS22HT	3.780	1	1.66	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼—1⅜ —1⁷⁄₁₆—1½
23	40BS23HT	3.940	1	1.92	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼—1⅜ —1⁷⁄₁₆—1½
24	40BS24HT	4.100	1	2.10	⅝— ¾—⅞—1—1⅛—1³⁄₁₆—1¼—1⅜ —1⁷⁄₁₆—1½
25	40BS25HT	4.260	1	2.22	¾—⅞—1—1⅛—1³⁄₁₆—1¼ —1⁷⁄₁₆—1½
26	40BS26HT	4.420	1	2.34	¾—⅞—1—1⅛—1³⁄₁₆—1¼ —1⁷⁄₁₆—1½
28	40BS28HT	4.740	1	2.50	¾—⅞—1—1⅛—1³⁄₁₆—1¼ —1⁷⁄₁₆—1½
30	40BS30HT	5.060	1	2.70	¾—⅞—1—1⅛—1³⁄₁₆—1¼ —1⁷⁄₁₆—1½



TYPE BS

★Indicates no keyway. (2) ¼" setscrews only in ½" & ⅜" bore at 90°.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.



TYPE C

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
12	40C12	2.170	½	1	1³⁹⁄₆₄★	1½	0.75
13	40C13	2.330	½	1⅛	1¾	1½	0.94
14	40C14	2.490	½	1⅛	1¹¹⁄₁₆	1½	0.91
15	40C15	2.650	½	1¼	1⅞	1½	1.19
16	40C16	2.810	½	1⅜	2	1½	1.34
17	40C17	2.970	⅝	1⁷⁄₁₆	2⅛	1½	1.50
18	40C18	3.140	⅝	1½	2⁵⁄₁₆	1½	1.80

★ Has recessed groove in hub for chain clearance.

No. 40
½" Pitch

All Steel Stock Sprockets

Martin

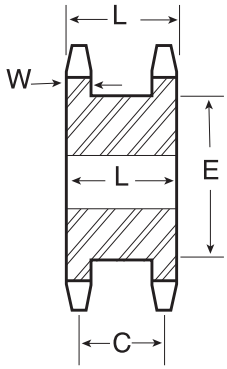






Double Single - Type A — Steel

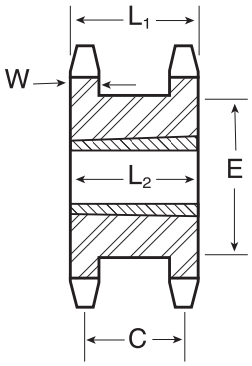
No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
15	DS40A15	2.650	2.405	A	½	1¼	1 13/32	1⅛	1 13/16	.284	1.2
16	DS40A16	2.810	2.563	A	½	1¼	1 13/32	1⅛	2	.284	1.4
17	DS40A17	2.980	2.721	A	½	1 5/16	1 13/32	1⅛	2⅛	.284	1.6
18	DS40A18	3.140	2.879	A	½	1½	1 13/32	1⅛	2 5/16	.284	1.8
19	DS40A19	3.300	3.038	A	⅝	1 11/16	1 13/32	1⅛	2½	.284	2.2
20	DS40A20	3.460	3.196	A	⅝	1¾	1 13/32	1⅛	2⅝	.284	2.6
21	DS40A21	3.620	3.355	A	⅝	1¾	1 13/32	1⅛	2 25/32	.284	2.9
22	DS40A22	3.780	3.513	A	⅝	1 13/16	1 13/32	1⅛	2 15/16	.284	3.0
23	DS40A23	3.940	3.672	A	⅝	2 1/16	1 13/32	1⅛	3 3/32	.284	3.5
24	DS40A24	4.100	3.831	A	⅝	2¼	1 13/32	1⅛	3 17/64	.284	4.0
25	DS40A25	4.260	3.989	A	⅝	2¼	1 13/32	1⅛	3 7/16	.284	4.5



TYPE A

Double Single - Taper Bushed — Steel

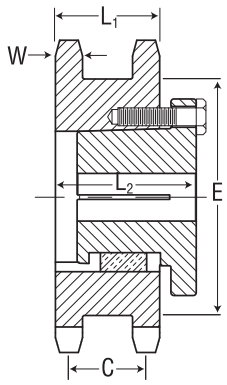
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt.
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	Rim Only
18	DS40ATB18H	1215	3.140	2.879	½	1¼	A	1 13/32	1⅛	2 5/16	1½	.284	1.0
19	DS40ATB19H	1215	3.300	3.038	½	1¼	A	1 13/32	1⅛	2½	1½	.284	1.1
20	DS40ATB20H	1215	3.460	3.196	½	1¼	A	1 13/32	1⅛	2⅝	1½	.284	1.3
21	DS40ATB21H	1615	3.620	3.355	½	1⅝	A	1 13/32	1⅛	2 25/32	1½	.284	1.3
23	DS40ATB23H	1615	3.940	3.672	½	1⅝	A	1 13/32	1⅛	3 3/32	1½	.284	1.5
24	DS40ATB24H	1615	4.100	3.831	½	1⅝	A	1 13/32	1⅛	3 17/64	1½	.284	1.7



TAPER BUSH TYPE A

Double Single - MST® — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt.
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	Rim Only
19	DS40H19H	H	3.300	3.038	⅜	1½	BH	1 13/32	1⅛	2½	2 1/32	.284	1.5
21	DS40H21H	H	3.620	3.355	⅜	1½	BH	1 13/32	1⅛	2 25/32	2 1/32	.284	2.0
23	DS40P23H	P1	3.940	3.672	½	1¾	B	1 13/32	1⅛	3 3/32	2 3/32	.284	2.3
24	DS40P24H	P1	4.100	3.831	½	1¾	B	1 13/32	1⅛	3 17/64	2 3/32	.284	2.5

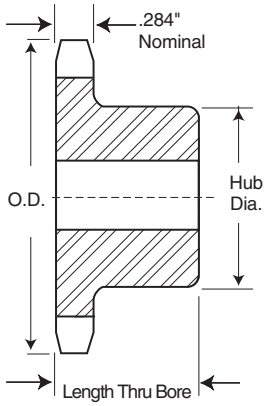


MST TYPE B

Stainless Steel Stock Sprockets

No. 40 ½" Pitch





Alteration Charges

See current discount sheet for alteration charges.

STAINLESS STEEL **TYPE B**

Single - Type B — Stainless

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru Bore	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
8	40B8SS	1.507	B	½	½	31/32	⅞	0.18				
9	40B9SS	1.840	B	½	9/16	1 1/16	⅞	0.20				
10	40B10SS	1.840	B	½	¾	1¼★	⅞	0.28				
11	40B11SS	2.000	B	½	13/16	1⅜★	⅞	0.36				
12	40B12SS	2.170	B	½	15/16	1 9/16★	⅞	0.44				
13	40B13SS	2.330	B	½	1 1/16	1 9/16	⅞	0.50	A	40A13SS	½	0.22
14	40B14SS	2.490	B	½	1⅛	1 11/16	⅞	0.60	A	40A14SS	½	0.26
15	40B15SS	2.650	B	½	1¼	1 13/16	⅞	0.68	A	40A15SS	⅝	0.30
16	40B16SS	2.810	B	⅝	1⅜	2	⅞	0.82	A	40A16SS	⅝	0.34
17	40B17SS	2.980	B	⅝	1 7/16	2⅛	1	1.06	A	40A17SS	⅝	0.36
18	40B18SS	3.140	B	⅝	1½	2 5/16	1	1.24	A	40A18SS	⅝	0.44
19	40B19SS	3.300	B	⅝	1¾	2½	1	1.42	A	40A19SS	⅝	0.46
20	40B20SS	3.460	B	⅝	1⅞	2⅝	1	1.60	A	40A20SS	⅝	0.56
21	40B21SS	3.620	B	⅝	1⅞	2¾	1	1.68	A	40A21SS	⅝	0.58
22	40B22SS	3.780	B	⅝	1⅞	2⅞	1	1.81	A	40A22SS	⅝	0.66
23	40B23SS	3.940	B	⅝	2	3	1	2.14	A	40A23SS	⅝	0.72
24	40B24SS	4.100	B	⅝	2¼	3¼	1	2.46	A	40A24SS	⅝	0.82
25	40B25SS	4.260	B	⅝	2¼	3¼	1	2.55	A	40A25SS	⅝	0.88
26	40B26SS	4.420	B	⅝	2¼	3¼	1	2.62	A	40A26SS	19/32	1.31
28	40B28SS	4.740	B	⅝	2¼	3¼	1	2.75	A	40A28SS	19/32	1.35
30	40B30SS	5.060	B	⅝	2¼	3¼	1	2.88	A	40A30SS	19/32	1.39
32	40B32SS	5.376	B	⅝	2¼	3¼	1	3.16	A	40A32SS	19/32	1.48
35	40B35SS	5.860	B	⅝	2¼	3¼	1	3.32	A	40A35SS	19/32	1.92
36	40B36SS	6.015	B	⅝	2¼	3¼	1	3.58	A	40A36SS	19/32	1.84
40	40B40SS	6.650	B	¾	2⅜	3½	1⅛	4.28	A	40A40SS	23/32	2.36
45	40B45SS	7.450	B	¾	2⅜	3½	1⅛	4.68	A	40A45SS	23/32	3.13
48	40B48SS	7.928	B	¾	2⅜	3½	1⅛	5.84	A	40A48SS	23/32	3.22
54	40B54SS	8.884	B	¾	2⅜	3½	1⅛	6.42	A	40A54SS	23/32	4.44
60	40B60SS	9.840	B	¾	2⅜	3½	1⅛	7.00	A	40A60SS	23/32	5.50

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

No. 40
½" Pitch

All Steel Stock Sprockets

Martin

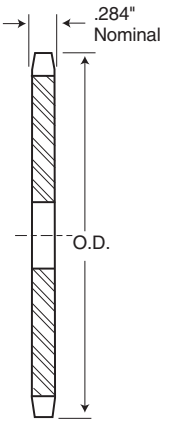
Single - Type B

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru Bore	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
8	40B8	1.510	B	½	½	63/64★	⅞	0.18				
9	40B9	1.670	B	½	9/16	1 1/16★	⅞	0.20				
10	40B10	1.840	B	½	¾	1 ¼★	⅞	0.27				
11	40B11	2.000	B	½	⅞	1 3/16★	⅞	0.35				
12	40B12	2.170	B	½	1	1 9/16★	⅞	0.45	A	40A12	½	0.18
13	40B13	2.330	B	½	1 1/16	1 9/16	⅞	0.50	A	40A13	½	0.22
14	40B14	2.490	B	½	1⅛	1 11/16	⅞	0.59	A	40A14	½	0.26
15	40B15	2.650	B	½	1¼	1 13/16	⅞	0.70	A	40A15	5/8	0.30
16	40B16	2.810	B	5/8	1⅜	2	⅞	0.79	A	40A16	5/8	0.34
17	40B17	2.980	B	5/8	1 1/16	2⅛	1	1.04	A	40A17	5/8	0.36
18	40B18	3.140	B	5/8	1½	2 5/16	1	1.22	A	40A18	5/8	0.44
19	40B19	3.300	B	5/8	1¾	2½	1	1.43	A	40A19	5/8	0.46
20	40B20	3.460	B	5/8	1⅞	2⅝	1	1.56	A	40A20	5/8	0.56
21	40B21	3.620	B	5/8	1⅞	2¾	1	1.73	A	40A21	5/8	0.58
22	40B22	3.780	B	5/8	1⅞	2⅞	1	1.96	A	40A22	5/8	0.66
23	40B23	3.940	B	5/8	2	3	1	2.13	A	40A23	5/8	0.72
24	40B24	4.100	B	5/8	2¼	3¼	1	2.41	A	40A24	5/8	0.82
25	40B25	4.260	B	5/8	2¼	3¼	1	2.54	A	40A25	5/8	0.88
26	40B26	4.420	B	5/8	2¼	3¼	1	2.58	A	40A26	5/8	0.94
27	40B27	4.580	B	5/8	2¼	3¼	1	2.66	A	40A27	5/8	0.98
28	40B28	4.740	B	5/8	2¼	3¼	1	2.73	A	40A28	5/8	1.10
29	40B29	4.900	B	5/8	2¼	3¼	1	2.80	A	40A29	19/32	1.22
30	40B30	5.060	B	5/8	2¼	3¼	1	2.98	A	40A30	19/32	1.26
31	40B31	5.220	B	5/8	2¼	3¼	1	3.10	A	40A31	19/32	1.40
32	40B32	5.380	B	5/8	2¼	3¼	1	3.16	A	40A32	19/32	1.48
33	40B33	5.540	B	5/8	2¼	3¼	1	3.22	A	40A33	19/32	1.56
34	40B34	5.700	B	5/8	2¼	3¼	1	3.30	A	40A34	19/32	1.64
35	40B35	5.860	B	5/8	2¼	3¼	1	3.46	A	40A35	19/32	1.70
36	40B36	6.020	B	5/8	2¼	3¼	1	3.58	A	40A36	19/32	1.84
37	40B37	6.180	B	5/8	2¼	3¼	1	3.62	A	40A37	19/32	1.92
38	40B38	6.330	B	5/8	2¼	3¼	1	3.70	A	40A38	19/32	2.00
39	40B39	6.490	B	5/8	2¼	3¼	1	3.76	A	40A39	19/32	2.02
40	40B40	6.650	B	¾	2⅜	3½	1⅛	4.69	A	40A40	23/32	2.22
41	40B41	6.810	B	¾	2⅜	3½	1⅛	4.76	A	40A41	23/32	2.40
42	40B42	6.970	B	¾	2⅜	3½	1⅛	4.82	A	40A42	23/32	2.52
43	40B43	7.130	B	¾	2⅜	3½	1⅛	5.12	A	40A43	23/32	2.64
44	40B44	7.290	B	¾	2⅜	3½	1⅛	5.15	A	40A44	23/32	2.81
45	40B45	7.450	B	¾	2⅜	3½	1⅛	5.30	A	40A45	23/32	2.90
46	40B46	7.610	B	¾	2⅜	3½	1⅛	5.57	A	40A46	23/32	3.03
47	40B47	7.770	B	¾	2⅜	3½	1⅛	5.44	A	40A47	23/32	3.17
48	40B48	7.930	B	¾	2⅜	3½	1⅛	5.84	A	40A48	23/32	3.31
49	40B49	8.090	B	¾	2⅜	3½	1⅛	5.90	A	40A49	23/32	3.45
50	40B50	8.250	B	¾	2⅜	3½	1⅛	5.96	A	40A50	23/32	3.60
51	40B51	8.410	B	¾	2⅜	3½	1⅛	6.08	A	40A51	23/32	3.75
52	40B52	8.570	B	¾	2⅜	3½	1⅛	6.28	A	40A52	23/32	3.90
53	40B53	8.730	B	¾	2⅜	3½	1⅛	6.33	A	40A53	23/32	4.05
54	40B54	8.890	B	¾	2⅜	3½	1⅛	6.42	A	40A54	23/32	4.44
55	40B55	9.040	B	¾	2⅜	3½	1⅛	6.46	A	40A55	23/32	4.54
56	40B56	9.200	B	¾	2⅜	3½	1⅛	6.89	A	40A56	23/32	4.84
57	40B57	9.360	B	¾	2⅜	3½	1⅛	7.02	A	40A57	23/32	5.00
58	40B58	9.520	B	¾	2⅜	3½	1⅛	7.36	A	40A58	23/32	5.12
59	40B59	9.680	B	¾	2⅜	3½	1⅛	7.45	A	40A59	23/32	5.30
60	40B60	9.840	B	¾	2⅜	3½	1⅛	7.86	A	40A60	23/32	5.48
70	40B70	11.430	B	¾	2¾	4	1¼	11.00	A	40A70	23/32	7.24
72	40B72	11.750	B	¾	2¾	4	1¼	11.50	A	40A72	23/32	7.56
80	40B80	13.030	B	¾	2¾	4	1¼	13.40	A	40A80	23/32	10.20
84	40B84	13.660	B	¾	2¾	4	1¼	14.04	A	40A84	23/32	10.07
96	40B96	15.570	B	1	2¾	4	1¼	17.56	A	40A96	15/16	12.15
112	40B112	18.120	B	1	2¾	4	1¼	22.56	A	40A112	15/16	20.00

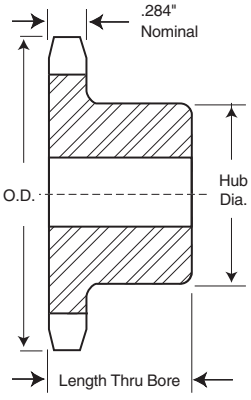
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.





TYPE A





TYPE B

Alteration Charges

See current discount sheet for alteration charges.

All Steel Stock Sprockets

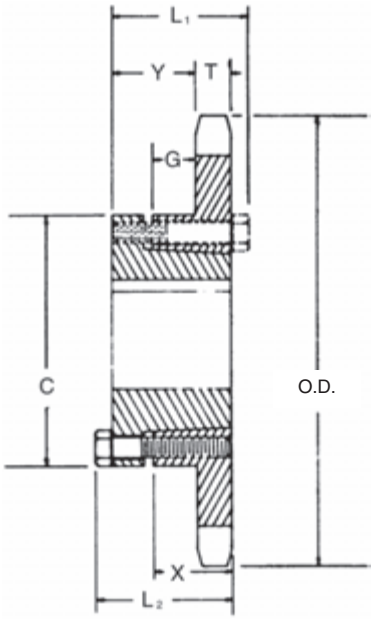
No. 40 ½" Pitch

Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
15	40JA15H
16	40JA16H
17	40JA17H
18	40JA18H
19	40JA19H
20	40SH20H
21	40SH21H
22	40SH22H
23	40SH23H
24	40SH24H
25	40SH25H
26	40SH26H
27	40SH27H
28	40SH28H
30	40SH30H

SABER TOOTH®





QD — TYPE B

Single - Type QD

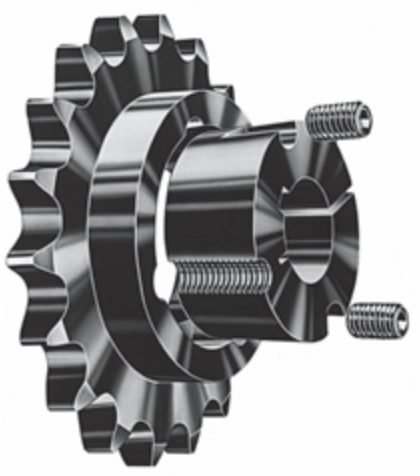
No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	G	X	T	With Hub	Rim Only
15	40JA15	JA	2.650	2.405	B	1¼	1⅛	1⅛	2 1/16	23/32	11/32	⅝	0.284	1.24	0.34
16	40JA16	JA	2.810	2.563	B	1¼	1⅛	1⅛	2 1/16	23/32	11/32	⅝	0.284	1.30	0.40
17	40JA17	JA	2.980	2.721	B	1¼	1⅛	1⅛	2 1/16	23/32	11/32	⅝	0.284	1.38	0.48
18	40JA18	JA	3.140	2.879	B	1¼	1⅛	1⅛	2 1/16	23/32	11/32	⅝	0.284	1.44	0.54
19	40JA19	JA	3.300	3.038	B	1¼	1⅛	1⅛	2 1/16	23/32	11/32	⅝	0.284	1.50	0.60
20	40SH20	SH	3.460	3.196	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	1.76	0.76
21	40SH21	SH	3.620	3.355	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	1.84	0.84
22	40SH22	SH	3.780	3.513	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	1.92	0.92
23	40SH23	SH	3.940	3.672	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.14	1.14
24	40SH24	SH	4.100	3.831	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.22	1.22
25	40SH25	SH	4.260	3.989	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.30	1.30
26	40SH26	SH	4.420	4.148	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.44	1.44
27	40SH27	SH	4.580	4.307	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.46	1.46
28	40SH28	SH	4.740	4.466	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.54	1.54
30	40SH30	SH	5.060	4.783	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.72	1.72
32	40SH32	SH	5.380	5.101	B	1⅝	1 7/16	1 7/16	2 11/16	31/32	17/32	13/16	0.284	2.90	1.90
35	40SH35	SH	5.860	5.578	B	1⅝	1 7/16	1 7/16	3	31/32	17/32	13/16	0.284	3.22	2.22
36	40SDS36	SDS	6.020	5.737	B	2	1½	1½	3 3/16	1 1/32	15/32	¾	0.284	3.20	2.20
40	40SDS40	SDS	6.650	6.373	B	2	1½	1½	3 3/16	1 1/32	15/32	¾	0.284	3.72	2.72
42	40SDS42	SDS	6.970	6.691	B	2	1½	1½	3 3/16	1 1/32	15/32	¾	0.284	3.92	2.92
45	40SDS45	SDS	7.450	7.168	B	2	1½	1½	3 3/16	1 1/32	15/32	¾	0.284	4.32	3.32
48	40SDS48	SDS	7.930	7.645	B	2	1½	1½	3 3/16	1 1/32	15/32	¾	0.284	4.70	3.70
54	40SDS54	SDS	8.890	8.599	B	2	1½	1½	3 3/16	1 1/32	15/32	¾	0.284	5.78	4.78
60	40SDS60	SDS	9.840	9.554	B	2	1½	1½	3 3/16	1 1/32	15/32	¾	0.284	6.86	5.86
70	40SK70	SK	11.430	11.145	B	2⅞	2⅛	2⅛	3⅞	1 19/32	31/32	1¼	0.284	10.68	8.68
72	40SK72	SK	11.750	11.463	B	2⅞	2⅛	2⅛	3⅞	1 19/32	31/32	1¼	0.284	10.84	8.84
80	40SK80	SK	13.030	12.736	B	2⅞	2⅛	2⅛	3⅞	1 19/32	31/32	1¼	0.284	13.20	11.20
84	40SK84	SK	13.660	13.372	B	2⅞	2⅛	2⅛	3⅞	1 19/32	31/32	1¼	0.284	13.56	11.56
96	40SK96	SK	15.570	15.282	B	2⅞	2⅛	2⅛	3⅞	1 19/32	31/32	1¼	0.284	17.76	15.76
112	40SK112	SK	18.120	17.828	B	2⅞	2⅛	2⅛	3⅞	1 19/32	31/32	1¼	0.284	22.28	20.28

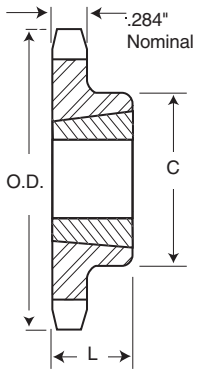
No. 40
½" Pitch

All Steel Stock Sprockets

Martin

Single - Taper Bushed with Hardened Teeth





TAPER BUSHED
TYPE B

SABER TOOTH®

No. Teeth	Catalog Number
14	40BTB14H
15	40BTB15H
16	40BTB16H
17	40BTB17H
18	40BTB18H
19	40BTB19H
20	40BTB20H
21	40BTB21H
22	40BTB22H
23	40BTB23H
24	40BTB24H
25	40BTB25H
26	40BTB26H
28	40BTB28H
30	40BTB30H

Single - Taper Bushed

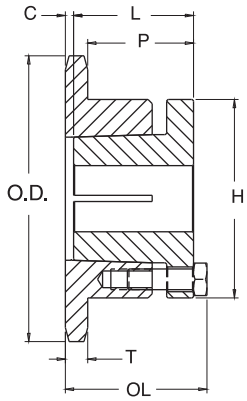
No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
14	40BTB14	1008	2.491	2.247	1	⅞	★1 13/16	B	0.3	0.3
15	40BTB15	1008	2.652	2.405	1	⅞	1 13/16	B	0.4	0.3
16	40BTB16	1008	2.814	2.563	1	⅞	1 15/16	B	0.5	0.3
17	40BTB17	1210	2.975	2.721	1¼	1	★2⅜	B	0.5	0.3
18	40BTB18	1210	3.135	2.879	1¼	1	★2 15/32	B	0.6	0.6
19	40BTB19	1210	3.296	3.038	1¼	1	2 15/32	B	0.7	0.6
20	40BTB20	1610	3.457	3.196	1⅜	1	★2 25/32	B	0.7	0.9
21	40BTB21	1610	3.617	3.355	1⅜	1	2 25/32	B	0.8	0.9
22	40BTB22	1610	3.778	3.513	1⅜	1	2 25/32	B	0.9	0.9
23	40BTB23	1610	3.938	3.672	1⅜	1	3 5/32	B	1.0	0.9
24	40BTB24	1610	4.098	3.831	1⅜	1	3¼	B	1.4	0.9
25	40BTB25	1610	4.258	3.989	1⅜	1	3 13/32	B	1.5	0.9
26	40BTB26	1610	4.418	4.148	1⅜	1	3½	B	1.7	0.9
28	40BTB28	1610	4.738	4.466	1⅜	1	3½	B	1.8	0.9
30	40BTB30	1610	5.057	4.783	1⅜	1	3½	B	1.9	0.9
32	40BTB32	1610	5.377	5.101	1⅜	1	3½	B	1.9	0.9
35	40BTB35	1610	5.855	5.578	1⅜	1	3½	B	2.3	0.9
36	40BTB36	1610	6.015	5.737	1⅜	1	3	B	2.4	0.9
40	40BTB40	1610	6.653	6.373	1⅜	1	3	B	2.8	0.9
42	40BTB42	1610	6.972	6.691	1⅜	1	3	B	2.9	0.9
45	40BTB45	1610	7.451	7.168	1⅜	1	3	B	3.5	0.9
48	40BTB48	1610	7.928	7.645	1⅜	1	3	B	4.0	0.9
54	40BTB54	1610	8.885	8.599	1⅜	1	3	B	4.9	0.9
60	40BTB60	1610	9.841	9.554	1⅜	1	3	B	6.0	0.9
70	40BTB70	2012	11.434	11.145	2	1¼	3 9/16	B	8.2	1.7
72	40BTB72	2012	11.752	11.463	2	1¼	3 9/16	B	9.0	1.7
80	40BTB80	2012	13.026	12.736	2	1¼	3 9/16	B	10.8	1.7
84	40BTB84	2012	13.663	13.372	2	1¼	3 9/16	B	11.3	1.7
96	40BTB96	2012	15.573	15.282	2	1¼	3 9/16	B	14.6	1.7
112	40BTB112	2517	18.122	17.828	2½	1¾	4¼	B	20.5	1.7

★ Has recessed groove in hub for chain clearance.

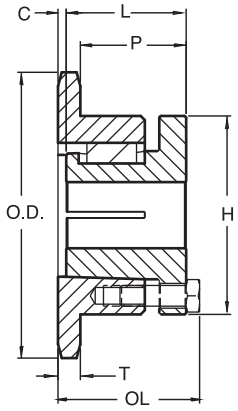
MST® Sprockets

No. 40 ½" Pitch

Single - MST® Sprockets



TYPE 3



TYPE 4

No. Teeth	Catalog Number	Bushing	Diameters Outside Dia.	Diameters Pitch Dia.	Type	Max. Bore	Dimensions OL	Dimensions L	Dimensions C	Dimensions H	Dimensions P	Dimensions T(nom)	Weight Lbs. (Approx.) With Hub	Weight Lbs. (Approx.) Rim Only
15	40H15H	H	2.650	2.405	3	1-1/2	1-19/32	1-1/4	5/32	2-1/2	1-1/8	.284	1.3	0.5
16	40H16H	H	2.810	2.563	3	1-1/2	1-19/32	1-1/4	5/32	2-1/2	1-1/8	.284	1.4	0.6
17	40H17H	H	2.980	2.721	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.4	0.6
18	40H18H	H	3.140	2.879	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.4	0.6
18	40P18H	P1	3.140	2.879	3	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.7	1.4
19	40H19H	H	3.300	3.038	3	1-1/2	1-1/2	1-1/4	1/16	2 1/2	1-1/32	.284	1.6	0.8
19	40P19H	P1	3.300	3.038	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.6	1.3
20	40H20H	H	3.460	3.196	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.7	0.9
20	40P20H	P1	3.460	3.196	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.6	1.3
21	40H21H	H	3.620	3.355	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.7	0.9
21	40P21H	P1	3.620	3.355	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.8	1.5
22	40H22H	H	3.780	3.513	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.8	1.0
22	40P22H	P1	3.780	3.513	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.9	1.6
23	40H23H	H	3.940	3.672	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.8	1.0
23	40P23H	P1	3.940	3.672	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.0	1.7
24	40H24H	H	4.100	3.831	3	1-1/2	1 1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.9	1.1
24	40P24H	P1	4.100	3.831	4	1-3/4	2 3/16	1-15/16	0	3	1-21/32	.284	3.1	1.8
25	40H25H	H	4.260	3.989	3	1-1/2	1 1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.1	1.3
25	40P25H	P1	4.260	3.989	4	1-3/4	2 3/16	1-15/16	0	3	1-21/32	.284	3.2	1.9
26	40H26H	H	4.420	4.148	3	1-1/2	1 1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.1	1.3
26	40P26H	P1	4.420	4.148	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.2	1.9
27	40H27H	H	4.580	4.307	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.2	1.4
28	40H28H	H	4.740	4.466	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.2	1.4
28	40P28H	P1	4.740	4.466	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.4	2.1
29	40P29H	P1	4.900	4.625	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.6	2.3
30	40H30H	H	5.060	4.783	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.4	1.6
30	40P30H	P1	5.060	4.783	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.6	2.3
31	40P31	P1	5.220	4.942	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.8	2.5
32	40H32H	H	5.380	5.101	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.6	1.8
32	40P32	P1	5.380	5.101	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.9	2.6
33	40H33H	H	5.540	5.260	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.7	1.9
33	40P33	P1	5.540	5.260	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.9	2.6
34	40P34	P1	5.700	5.419	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.1	2.8
35	40H35H	H	5.860	5.578	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.9	2.1
35	40P35	P1	5.860	5.578	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.2	2.9
36	40H36H	H	6.020	5.737	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	3.1	2.3
36	40P36	P1	6.020	5.737	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.4	3.1
37	40P37	P1	6.180	5.896	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.6	3.3
38	40H38H	H	6.330	6.055	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	3.4	2.6
38	40P38	P1	6.330	6.055	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.6	3.3
40	40H40H	H	6.650	6.373	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	3.6	2.8
40	40P40	P1	6.650	6.373	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.8	3.5
41	40P41	P1	6.810	6.532	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.9	3.6
42	40P42	P1	6.970	6.691	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.2	3.9
44	40P44	P1	7.290	7.009	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.3	4.0
45	40P45	P1	7.450	7.168	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.5	4.2
47	40P47	P1	7.770	7.486	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.9	4.6
48	40P48	P1	7.930	7.645	4	1-3/4	2 3/16	1-15/16	0	3	1-21/32	.284	6.1	4.8
50	40P50	P1	8.250	7.963	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	6.3	5.0
54	40P54	P1	8.890	8.599	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	6.8	5.5
56	40P56	P1	9.200	8.917	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	7.2	5.9
60	40P60	P1	9.840	9.554	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	7.9	6.6
60	40Q60	Q1	9.840	9.554	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	12.3	8.8
70	40P70	P1	11.430	11.145	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	9.9	8.6
70	40Q70	Q1	11.430	11.145	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	14.5	11.0
72	40Q72	Q1	11.750	11.463	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	14.7	11.2
80	40Q80	Q1	13.030	12.736	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	16.6	13.1
84	40Q84	Q1	13.660	13.372	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	17.6	14.1
96	40Q96	Q1	15.570	15.281	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	16.3	12.8
112	40Q112	Q1	18.120	17.828	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	20.8	17.3

Sprockets with "H" suffix have hardened teeth.

No. 40-2
½" Pitch

All Steel Stock Sprockets

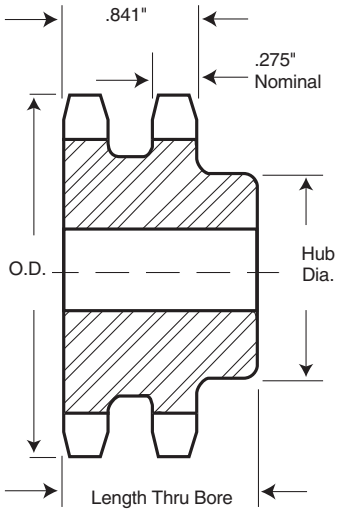
Double - Type B

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	D40B11H	2.000	B	½	¾	1 7/16★	1½	0.62
12	D40B12H	2.170	B	½	15/16	1 9/16★	1½	0.76
13	D40B13H	2.330	B	½	1	1½	1½	0.86
14	D40B14H	2.490	B	½	1⅛	1 11/16	1½	1.08
15	D40B15H	2.650	B	½	1¼	1 13/16	1½	1.24
16	D40B16H	2.810	B	⅝	1⅜	2	1½	1.42
17	D40B17H	2.980	B	⅝	1 7/16	2⅛	1½	1.64
18	D40B18H	3.140	B	⅝	1½	2 5/16	1½	1.92
19	D40B19H	3.300	B	⅝	1¾	2½	1½	2.22
20	D40B20H	3.460	B	⅝	1⅞	2⅝	1⅝	2.64
21	D40B21H	3.620	B	⅝	1⅞	2¾	1⅝	2.94
22	D40B22H	3.780	B	⅝	1⅞	2⅞	1⅝	3.18
23	D40B23H	3.940	B	⅝	2	3	1⅝	3.52
24	D40B24H	4.100	B	⅝	2¼	3¼	1⅝	4.04
25	D40B25H	4.260	B	⅝	2¼	3¼	1⅝	4.26
26	D40B26	4.420	B	⅝	2¼	3¼	1⅝	4.48
30	D40B30	5.060	B	⅞	2¼	3¼	1⅝	5.34
35	D40B35	5.860	B	⅞	2¼	3¼	1⅝	6.80
36	D40B36	6.020	B	15/16	2½	3¾	1⅝	7.20
40	D40B40	6.650	B	15/16	2½	3¾	1¾	9.40
42	D40B42	6.970	B	15/16	2½	3¾	1¾	10.20
45	D40B45	7.450	B	15/16	2½	3¾	1¾	11.36
48	D40B48	7.930	B	15/16	2½	3¾	1¾	12.66
52	D40B52	8.570	B	15/16	2½	3¾	1¾	14.46
54	D40B54	8.890	B	15/16	2½	3¾	1¾	15.48
60	D40B60	9.840	B	15/16	2½	3¾	1¾	18.60
68	D40B68	11.120	B	1 3/16	2¾	4¼	2⅛	24.96
72	D40B72	11.750	B	1 3/16	2¾	4¼	2⅛	27.88
76	D40B76	12.390	B	1 3/16	2¾	4¼	2⅛	30.18
84	D40B84	13.660	B	1 3/16	2¾	4¼	2⅛	36.24
95	D40B95	15.410	B	1 3/16	2¾	4¼	2⅛	38.84
96	D40B96	15.570	B	1 3/16	2¾	4¼	2⅛	39.50
102	D40B102	16.530	B	1 3/16	2¾	4¼	2⅛	42.72
112	D40B112	18.120	B	1 3/16	2¾	4¼	2⅛	55.54

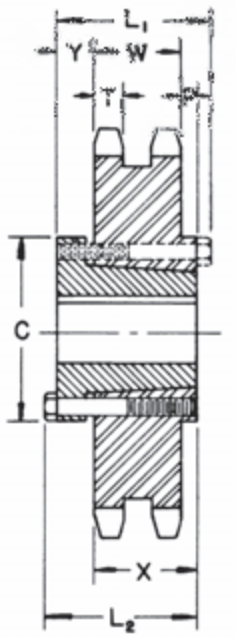
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Double 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.



TYPE B



QD — TYPE C

Alteration Charges

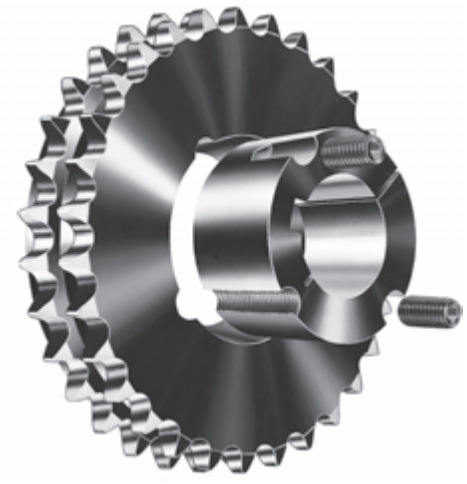
See current discount sheet for alteration charges.

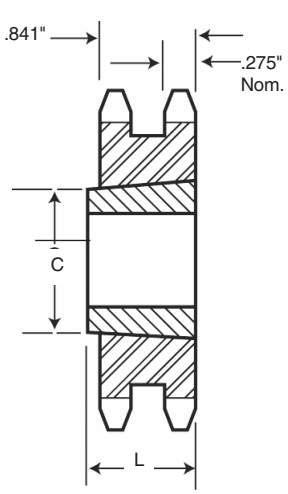
Double - Type QD

No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
36	D40SK36	SK	6.020	5.737	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	6.68	4.68
40	D40SK40	SK	6.650	6.373	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	8.02	6.02
42	D40SK42	SK	6.970	6.691	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	8.82	6.82
45	D40SK45	SK	7.450	7.168	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	9.98	7.98
48	D40SK48	SK	7.930	7.645	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	11.22	9.22
52	D40SK52	SK	8.570	8.281	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	13.04	11.04
54	D40SK54	SK	8.890	8.599	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	14.06	12.06
60	D40SK60	SK	9.840	9.554	C	2⅝	2⅛	2⅛	3⅞	⅝	13/32	1¼	0.275	0.841	16.98	14.98
68	D40SF68	SF	11.180	10.826	C	2 15/16	2¼	2¼	4⅝	¾	13/32	1¼	2.750	0.841	22.72	19.72
72	D40SF72	SF	11.750	11.463	C	2 15/16	2¼	2¼	4⅝	¾	13/32	1¼	2.750	0.841	24.20	22.20
76	D40SF76	SF	12.390	12.099	C	2 15/16	2¼	2¼	4⅝	¾	13/32	1¼	2.750	0.841	28.20	25.20
84	D40SF84	SF	13.660	13.372	C	2 15/16	2¼	2¼	4⅝	¾	13/32	1¼	2.750	0.841	33.64	30.64
95	D40SF95	SF	15.410	15.122	C	2 15/16	2¼	2¼	4⅝	¾	13/32	1¼	2.750	0.841	40.22	37.22
102	D40SF102	SF	16.530	16.236	C	2 15/16	2¼	2¼	4⅝	¾	13/32	1¼	2.750	0.841	42.70	39.70
112	D40SF112	SF	18.120	17.828	C	2 15/16	2¼	2¼	4⅝	¾	13/32	1¼	2.750	0.841	52.60	49.60

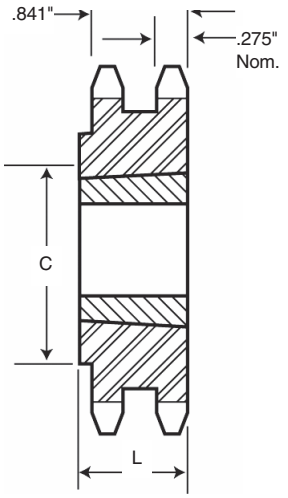
All Steel Stock Sprockets

No. 40-2 ½" Pitch

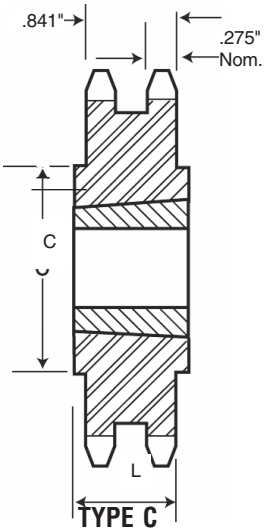




TYPE A



TYPE B



TYPE C

Double - Taper Bushed

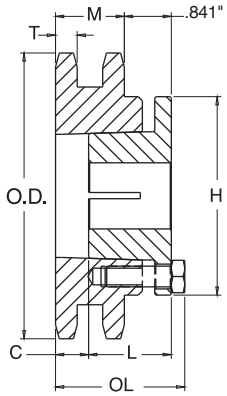
No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
15	D40ATB15H	1008	2.652	2.405	1	⅞	1 17/64	A	0.5	0.3
16	D40ATB16H	1008	2.814	2.563	1	⅞	1 17/64	A	0.6	0.3
17	D40ATB17H	1008	2.975	2.721	1	⅞	1 17/64	A	0.7	0.3
18	D40BTB18H	1210	3.135	2.879	1¼	1	2 5/16	B	0.7	0.6
19	D40BTB19H	1210	3.296	3.038	1¼	1	2½	B	0.9	0.6
20	D40BTB20H	1610	3.457	3.196	1⅜	1	2⅝	B	0.9	0.9
21	D40BTB21H	1610	3.617	3.355	1⅜	1	2¾	B	1.0	0.9
23	D40BTB23H	1610	3.938	3.672	1⅜	1	3	B	1.3	0.9
25	D40BTB25H	2012	4.258	3.989	2	1¼	3 13/32	B	1.6	1.7
30	D40BTB30	2012	5.057	4.783	2	1¼	4 15/64	B	3.4	1.7
36	D40BTB36	2012	6.015	5.737	2	1¼	5 5/32	B	5.9	1.7
42	D40CTB42	2517	6.972	6.691	2½	1¾	4¼	C	7.0	3.5
48	D40CTB48	2517	7.928	7.645	2½	1¾	4¼	C	9.6	3.5
52	D40CTB52	2517	8.566	8.281	2½	1¾	4¼	C	11.4	3.5
60	D40CTB60	2517	9.841	9.554	2½	1¾	4¼	C	15.4	3.5
68	D40CTB68	2517	11.115	10.826	2½	1¾	4¼	C	20.5	3.5
76	D40CTB76	2517	12.389	12.099	2½	1¾	4¼	C	25.7	3.5
84	D40CTB84	2517	13.663	13.372	2½	1¾	4¼	C	31.6	3.5
95	D40CTB95	2517	15.414	15.122	2½	1¾	4¼	C	34.1	3.5
102	D40CTB102	2517	16.529	16.236	2½	1¾	4¼	C	36.8	3.5

NOTE: Double 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

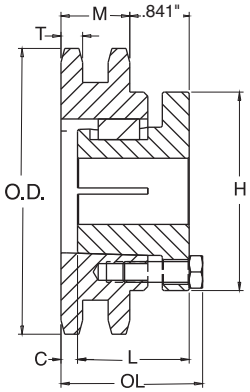
No. 40-2
½" Pitch

MST® Sprockets

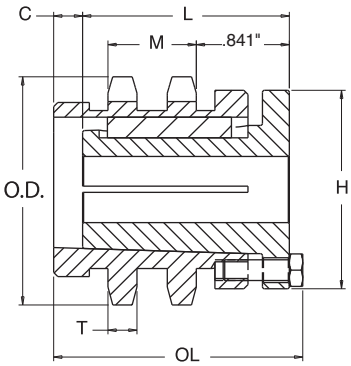




TYPE 11



TYPE 12



TYPE 16

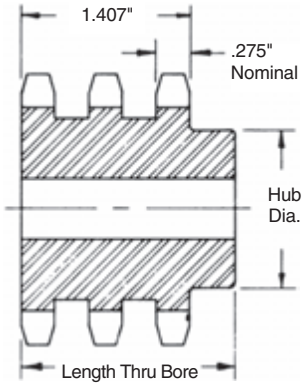
Double - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
15	D40H15H	H	2.650	2.405	11	1-1/2	2-5/32	1-1/4	23/32	2-1/2	1-1/8	0.275	1.7	0.9
16	D40H16H	H	2.810	2.563	11	1-1/2	2-5/32	1-1/4	23/32	2-1/2	1-1/8	0.275	1.8	1.0
17	D40H17H	H	2.980	2.721	11	1-1/2	2-5/32	1-1/4	23/32	2-1/2	1-1/8	0.275	1.9	1.1
18	D40P18H	P1	3.140	2.879	16	1-3/4	3-3/16	1-15/16	1	3	1-3/8	0.275	3.1	1.8
19	D40P19H	P1	3.300	3.038	12	1-3/4	2-15/32	1-15/16	9/32	3	1-3/8	0.275	2.7	1.4
20	D40P20H	P1	3.460	3.196	12	1-3/4	2-13/32	1-15/16	7/32	3	1-3/8	0.275	2.9	1.6
21	D40P21H	P1	3.620	3.355	12	1-3/4	2-13/32	1-15/16	7/32	3	1-3/8	0.275	3.1	1.8
22	D40P22H	P1	3.780	3.513	12	1-3/4	2-13/32	1-15/16	7/32	3	1-3/8	0.275	3.3	2.0
23	D40P23H	P1	3.940	3.672	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	3.3	2.0
24	D40P24H	P1	4.100	3.831	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	3.5	2.2
25	D40P25H	P1	4.260	3.989	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	3.8	2.5
26	D40P26H	P1	4.420	4.148	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	4.0	2.7
28	D40P28H	P1	4.740	4.466	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	4.4	3.1
30	D40Q30H	Q1	5.060	4.783	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	7.7	4.2
32	D40Q32H	Q1	5.380	5.101	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	8.8	5.3
35	D40Q35H	Q1	5.860	5.578	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	9.6	6.1
36	D40Q36H	Q1	6.020	5.737	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	10.0	6.5
40	D40Q40H	Q1	6.650	6.373	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	11.4	7.9
42	D40Q42H	Q1	6.970	6.691	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	12.4	8.9
45	D40Q45H	Q1	7.450	7.168	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	13.6	10.1
48	D40Q48H	Q1	7.930	7.645	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	15.3	11.8
52	D40Q52H	Q1	8.570	8.281	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	16.1	12.6
54	D40Q54H	Q1	8.890	8.599	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	17.8	14.3
60	D40Q60H	Q1	9.840	9.554	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	20.9	17.4
68	D40Q68	Q1	11.120	10.826	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	25.0	21.5
72	D40Q72	Q1	11.750	11.463	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	28.5	25.0
76	D40Q76	Q1	12.390	12.099	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	30.4	26.9
84	D40Q84	Q1	13.660	13.372	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	37.6	34.1
95	D40Q95	Q1	15.410	15.122	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	45.5	42.0
96	D40Q96	Q1	15.570	15.281	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	47.6	44.
102	D40Q102	Q1	16.530	16.236	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	52.0	48.5
112	D40Q112	Q1	18.120	17.828	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	64.5	61.0

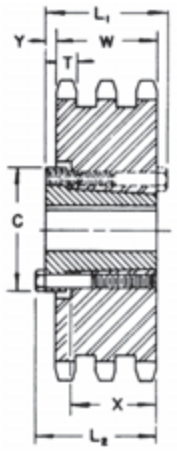
Sprockets with “H” suffix have hardened teeth.

All Steel Stock Sprockets

No. 40-3 ½" Pitch



TYPE B



QD — TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Triple - Type B

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	E40B11H	2.000	B	½	¾	1 7/16★	2⅛	0.80
12	E40B12H	2.170	B	½	15/16	1 9/16★	2⅛	1.10
13	E40B13H	2.330	B	½	1	1½	2⅛	1.24
14	E40B14H	2.490	B	½	1⅛	1 11/16	2⅛	1.50
15	E40B15H	2.650	B	½	1¼	1 13/16	2⅛	1.76
16	E40B16H	2.810	B	⅝	1⅜	2	2⅛	2.04
17	E40B17H	2.980	B	⅝	1 7/16	2⅛	2⅛	2.34
18	E40B18H	3.140	B	⅝	1½	2 5/16	2⅛	2.72
19	E40B19H	3.300	B	⅝	1¾	2½	2⅛	3.10
20	E40B20H	3.460	B	⅝	1⅞	2⅝	2¼	3.72
21	E40B21H	3.620	B	⅝	1⅞	2¾	2¼	4.06
22	E40B22H	3.780	B	⅝	1⅞	2⅞	2¼	4.52
23	E40B23H	3.940	B	⅝	2	3	2¼	4.96
24	E40B24H	4.100	B	⅝	2¼	3¼	2¼	5.64
25	E40B25H	4.260	B	⅝	2¼	3¼	2¼	6.02
26	E40B26	4.420	B	⅝	2¼	3¼	2¼	6.36
30	E40B30	5.060	B	⅞	2¼	3¼	2¼	7.84
35	E40B35	5.860	B	⅞	2¼	3¼	2¼	10.30
36	E40B36	6.020	B	15/16	2½	3¾	2⅜	11.72
42	E40B42	6.970	B	15/16	2½	3¾	2⅜	15.36
48	E40B48	7.930	B	15/16	2½	3¾	2⅜	19.36
52	E40B52	8.570	B	15/16	2½	3¾	2⅜	22.44
60	E40B60	9.840	B	15/16	2½	3¾	2⅜	30.02
68	E40B68	11.120	B	1 3/16	2¾	4	2⅝	38.44
72	E40B72	11.750	B	1 3/16	2¾	4	2⅝	42.46
76	E40B76	12.390	B	1 3/16	2¾	4	2⅝	46.90
84	E40B84	13.660	B	1 3/16	2¾	4¼	2¾	57.30
95	E40B95	15.410	B	1 3/16	2¾	4¼	2¾	62.18
102	E40B102	16.530	B	1 3/16	2¾	4¼	2¾	68.40

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

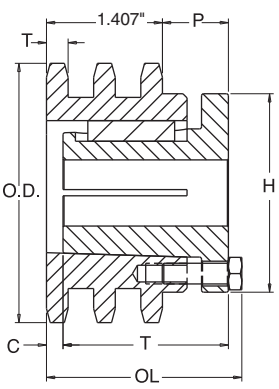
Triple - Type QD

No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	X	T	W	Weight Lbs. (Approx.) With Hub	Weight Lbs. (Approx.) Rim Only
36	E40SK36	SK	6.020	5.737	B	2⅝	2⅛	2⅛	3⅞	15/32	1¼	0.275	1.407	8.16	6.16
42	E40SK42	SK	6.970	6.691	B	2⅝	2⅛	2⅛	3⅞	15/32	1¼	0.275	1.407	11.92	9.52
48	E40SK48	SK	7.930	7.645	B	2⅝	2⅛	2⅛	3⅞	15/32	1¼	0.275	1.407	15.13	13.16
52	E40SK52	SK	8.570	8.281	B	2⅝	2⅛	2⅛	3⅞	15/32	1¼	0.275	1.407	18.08	16.08
60	E40SK60	SK	9.840	9.554	B	2⅝	2⅛	2⅛	3⅞	15/32	1¼	0.275	1.407	24.60	22.60
68	E40SF68	SF	11.120	10.826	B	2 15/16	2¼	2¼	4⅝	19/32	1¼	0.275	1.407	31.98	29.98
72	E40SF72	SF	11.750	11.463	B	2 15/16	2¼	2¼	4⅝	19/32	1¼	0.275	1.407	37.40	34.40
76	E40SF76	SF	12.390	12.099	B	2 15/16	2¼	2¼	4⅝	19/32	1¼	0.275	1.407	51.92	48.92
84	E40SF84	SF	13.660	13.372	B	2 15/16	2¼	2¼	4⅝	19/32	1¼	0.275	1.407	56.70	53.78
95	E40SF95	SF	15.410	15.122	B	2 15/16	2¼	2¼	4⅝	19/32	1¼	0.275	1.407	58.94	55.94
102	E40SF102	SF	16.530	16.236	B	2 15/16	2¼	2¼	4⅝	19/32	1¼	0.275	1.407	62.24	59.24

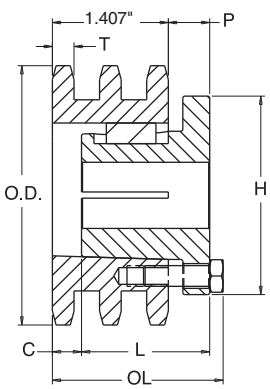
No. 40-3
½" Pitch

MST® Sprockets

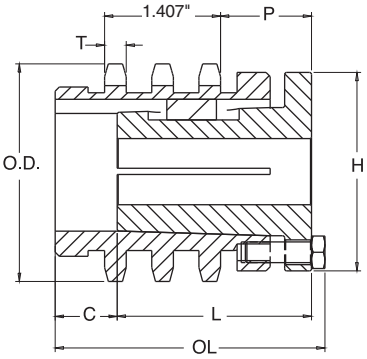




TYPE 22



TYPE 23



TYPE 27

Triple - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
18	E40P18H	P1	3.140	2.879	27	1-3/4	3-3/4	1-15/16	1 9/16	3	1-3/8	0.275	3.2	1.9
19	E40P19H	P1	3.300	3.038	22	1-3/4	3-1/32	1-15/16	27/32	3	1-3/8	0.275	3.1	1.8
20	E40P20H	P1	3.460	3.196	22	1-3/4	2-31/32	1-15/16	25/32	3	1-5/16	0.275	3.3	2.0
23	E40P23H	P1	3.940	3.672	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	3.6	2.3
24	E40P24H	P1	4.100	3.831	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	3.9	2.6
25	E40P25H	P1	4.260	3.989	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	4.3	3.0
27	E40P27H	P1	4.580	4.307	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	4.6	3.3
30	E40Q30H	Q1	5.060	4.783	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	8.0	4.5
35	E40Q35H	Q1	5.860	5.578	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	10.4	6.9
36	E40Q36H	Q1	6.020	5.737	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	11.1	7.6
42	E40Q42H	Q1	6.970	6.691	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	14.6	11.1
48	E40Q48H	Q1	7.930	7.645	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	18.7	15.2
52	E40Q52H	Q1	8.570	8.281	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	22.2	18.7
54	E40Q54H	Q1	8.890	8.599	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	23.4	19.9
60	E40Q60H	Q1	9.840	9.554	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	28.8	25.3
68	E40Q68	Q1	11.120	10.826	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	37.0	33.5
72	E40Q72	Q1	11.750	11.463	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	41.4	37.9
76	E40Q76	Q1	12.390	12.099	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	46.0	42.5
84	E40Q84	Q1	13.660	13.372	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	55.9	52.4
95	E40Q95	Q1	15.410	15.122	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	71.4	67.9
102	E40Q102	Q1	16.530	16.236	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	82.0	78.5

Sprockets with "H" suffix have hardened teeth.

All Steel Stock Sprockets

No. 50 5/8" Pitch

Single Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	50BS9	2.090	1	0.30	⅝ — ¾
10	50BS10	2.300	1	0.30	⅝ — ¾ — ⅞ — †1
11	50BS11	2.500	1	0.60	⅝ — ¾ — ⅞ — 1
12	50BS12	2.710	1	0.70	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼
13	50BS13	2.910	1	0.80	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼
14	50BS14	3.110	1	1.00	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼
15	50BS15	3.320	1	1.20	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
16	50BS16	3.520	1	1.45	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝
17	50BS17	3.720	1	1.60	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝
18	50BS18	3.920	1	1.90	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝
19	50BS19	4.120	1	2.00	⅝ — ¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝
20	50BS20	4.320	1	2.10	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝
21	50BS21	4.520	1	2.25	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
22	50BS22	4.720	1	2.40	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
23	50BS23	4.920	1	2.50	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
24	50BS24	5.120	1¼	3.00	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
25	50BS25	5.320	1¼	3.10	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
26	50BS26	5.520	1¼	3.30	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
27	50BS27	5.720	1¼	3.46	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
28	50BS28	5.920	1¼	3.60	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
29	50BS29	6.120	1¼	3.78	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
30	50BS30	6.320	1¼	3.90	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
31	50BS31	6.520	1¼	4.46	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
32	50BS32	6.720	1¼	4.70	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
33	50BS33	6.920	1¼	4.92	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
34	50BS34	7.120	1¼	5.06	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
35	50BS35	7.320	1¼	5.30	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
36	50BS36	7.520	1¼	5.50	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
37	50BS37	7.720	1¼	5.62	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
38	50BS38	7.920	1¼	5.80	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
39	50BS39	8.120	1¼	6.02	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
40	50BS40	8.320	1¼	6.20	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
41	50BS41	8.520	1¼	6.45	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
42	50BS42	8.720	1¼	6.68	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
43	50BS43	8.910	1¼	6.99	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
44	50BS44	9.110	1¼	7.30	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
45	50BS45	9.310	1¼	8.00	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
46	50BS46	9.510	1¼	8.51	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
47	50BS47	9.710	1¼	8.76	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
48	50BS48	9.910	1¼	9.03	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
49	50BS49	10.110	1¼	9.33	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
50	50BS50	10.310	1¼	9.63	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
51	50BS51	10.510	1¼	9.81	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
52	50BS52	10.710	1¼	9.99	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
53	50BS53	10.910	1¼	10.37	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
54	50BS54	11.110	1¼	10.75	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
55	50BS55	11.310	1¼	11.08	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
56	50BS56	11.500	1¼	11.41	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
57	50BS57	11.700	1¼	11.75	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
58	50BS58	11.900	1¼	12.08	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
59	50BS59	12.100	1¼	12.41	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
60	50BS60	12.300	1¼	13.50	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
70	50BS70	14.290	1¾	17.81	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
72	50BS72	14.690	1¾	19.13	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
80	50BS80	16.280	1¾	24.39	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
84	50BS84	17.080	1¾	25.15	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
96	50BS96	19.470	1¾	32.57	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16
112	50BS112	22.650	1¾	41.65	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — — 1¾ — 1 15/16

† Keyway with Setscrew at 90°.
Hub diameters vary to suit different bore sizes.
KEYWAY IS ON CENTER LINE OF TOOTH.

No. 50
5/8" Pitch

All Steel Stock Sprockets

Martin

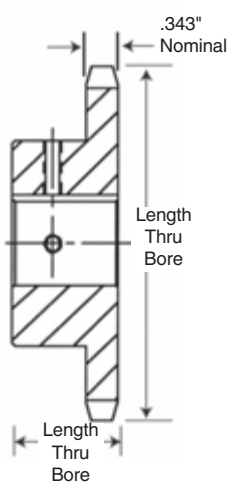


SABER TOOTH®

No. 50 — Hardened Teeth — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	50BS9HT	2.09	1	0.3	5/8 — 3/4
10	50BS10HT	2.30	1	0.3	5/8 — 3/4 — 7/8 —† 1
11	50BS11HT	2.50	1	0.6	5/8 — 3/4 — 7/8 — 1
12	50BS12HT	2.71	1	0.7	5/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4
13	50BS13HT	2.91	1	0.8	5/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4
14	50BS14HT	3.11	1	1.0	5/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4
15	50BS15HT	3.32	1	1.2	5/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2
16	50BS16HT	3.52	1	1.5	5/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2 — 1 5/8
17	50BS17HT	3.72	1	1.7	5/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2 — 1 5/8
18	50BS18HT	3.92	1	2.0	3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2 — 1 5/8
19	50BS19HT	4.12	1	2.2	3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2 — 1 5/8
20	50BS20HT	4.32	1	2.5	3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2 — 1 5/8
21	50BS21HT	4.52	1	2.6	3/4 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2
22	50BS22HT	4.72	1	2.8	3/4 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2
23	50BS23HT	4.92	1	3.2	3/4 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2
24	50BS24HT	5.12	1 1/4	4.0	3/4 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 7/16 — 1 1/2

† Setscrews at 90° and 180° to key.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



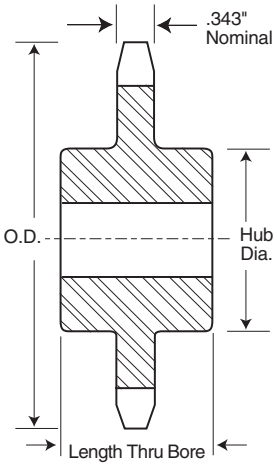
TYPE BS

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
12	50C12	2.710	5/8	1 1/4	2★	1 5/8	1.25
13	50C13	2.910	5/8	1 5/16	1 7/8	1 5/8	1.47
14	50C14	3.110	5/8	1 7/16	2 1/8	1 5/8	1.69
15	50C15	3.320	5/8	1 1/2	2 3/8	1 5/8	1.94
16	50C16	3.520	5/8	1 3/4	2 1/2	1 5/8	2.42
17	50C17	3.720	5/8	1 7/8	2 47/64	1 5/8	2.75
18	50C18	3.920	5/8	1 7/8	2 15/16	1 5/8	3.25
19	50C19	4.120	3/4	2	3 5/64	1 5/8	3.87
20	50C20	4.320	3/4	2	3	1 5/8	4.40

★ Has recessed groove in hub for chain clearance.



TYPE C

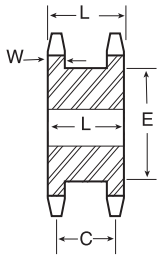
All Steel Stock Sprockets

No. 50 5/8" Pitch





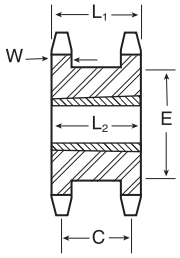




TYPE A

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
15	DS50A15	3.320	3.006	A	⅝	1½	1 21/32	1 5/16	2⅜	0.343	2.1
16	DS50A16	3.520	3.204	A	⅝	1 11/16	1 21/32	1 5/16	2 31/64	0.343	2.4
17	DS50A17	3.720	3.401	A	⅝	1¾	1 21/32	1 5/16	2 11/16	0.343	2.9
18	DS50A18	3.920	3.599	A	⅝	1⅞	1 21/32	1 5/16	2 57/64	0.343	3.3
19	DS50A19	4.120	3.797	A	⅝	2 1/16	1 21/32	1 5/16	3 3/64	0.343	3.7
20	DS50A20	4.320	3.995	A	⅝	2¼	1 21/32	1 5/16	3 3/32	0.343	4.2
21	DS50A21	4.520	4.194	A	⅝	2¼	1 21/32	1 5/16	3 31/64	0.343	4.8
22	DS50A22	4.720	4.392	A	⅝	2 7/16	1 21/32	1 5/16	3 11/16	0.343	5.3
23	DS50A23	4.920	4.590	A	⅝	2⅝	1 21/32	1 5/16	3 57/64	0.343	5.8
24	DS50A24	5.120	4.788	A	⅝	2¾	1 21/32	1 5/16	4 5/64	0.343	6.3

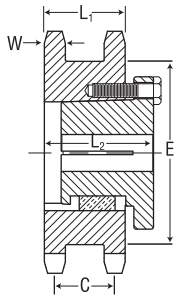


TAPER BUSH TYPE A

Double Single - Taper Bushed — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	
16	DS50ATB16H	1215	3.520	3.204	½	1⅝	A	1 21/32	1 5/16	2 31/64	1½	0.343	1.5
17	DS50ATB17H	1615	3.720	3.401	½	1⅝	A	1 21/32	1 5/16	2 11/16	1½	0.343	1.8
18	DS50ATB18H	1615	3.920	3.599	½	1⅝	A	1 21/32	1 5/16	2 57/64	1½	0.343	2.2
19	DS50ATB19H	1615	4.120	3.797	½	1⅝	A	1 21/32	1 5/16	3 5/64	1½	0.343	2.7
20	DS50ATB20H	1615	4.320	3.995	½	1⅝	A	1 21/32	1 5/16	3 3/32	1½	0.343	5.0
21	DS50ATB21H	2012	4.520	4.194	½	2	A	1 21/32	1 5/16	3 31/64	1¼	0.343	3.3
23	DS50ATB23H	2012	4.920	4.590	½	2	A	1 21/32	1 5/16	3 57/64	1¼	0.343	3.7
24	DS50ATB24H	2012	5.120	4.788	½	2	A	1 21/32	1 5/16	4 5/64	1¼	0.343	4.1

Sprockets with "H" suffix have hardened teeth.



MST TYPE B

Double Single- MST®— Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	
17	DS50H17H	H	3.720	3.401	⅜	1½	BH	1 21/32	1 5/16	2 11/16	2 9/32	0.343	2.3
19	DS50P19H	P1	4.120	3.797	½	1¾	B	1 21/32	1 5/16	3 5/64	2 17/32	0.343	2.8
21	DS50P21H	P1	4.520	4.194	½	1¾	B	1 21/32	1 5/16	3 31/64	2 17/32	0.343	3.8
23	DS50P23H	P1	4.920	4.590	½	1¾	B	1 21/32	1 5/16	3 57/64	2 17/32	0.343	4.6
24	DS50P24H	P1	5.120	4.788	½	1¾	B	1 21/32	1 5/16	4 5/64	2 17/32	0.343	5.0

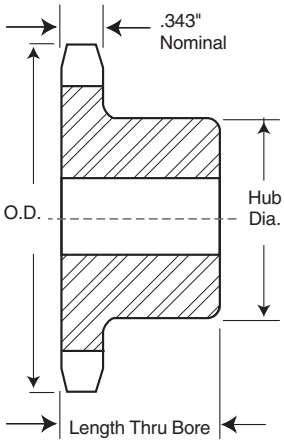
Sprockets with "H" suffix have hardened teeth.

No. 50 5/8" Pitch

Stainless Steel Stock Sprockets



STAINLESS STEEL



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B — Stainless

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Lbs. (Approx.)
8	50B8SS	1.884	B	5/8	5/8	1 1/8	1	0.25				
9	50B9SS	2.093	B	5/8	3/4	1 3/8	1	0.36				
10	50B10SS	2.300	B	5/8	7/8	1 9/16★	1	0.50				
11	50B11SS	2.500	B	5/8	1	1 3/4★	1	0.60				
12	50B12SS	2.710	B	5/8	1 1/4	1 63/64★	1	0.70				
13	50B13SS	2.910	B	5/8	1 5/16	1 7/8	1	0.80	A	50A13SS	5/8	0.42
14	50B14SS	3.110	B	5/8	1 7/16	2 1/8	1	1.00	A	50A14SS	5/8	0.50
15	50B15SS	3.320	B	5/8	1 1/2	2 3/8	1	1.30	A	50A15SS	5/8	0.54
16	50B16SS	3.520	B	5/8	1 3/4	2 1/2	1	1.50	A	50A16SS	5/8	0.68
17	50B17SS	3.720	B	5/8	1 7/8	2 11/16	1	1.80	A	50A17SS	5/8	0.76
18	50B18SS	3.920	B	5/8	1 7/8	2 7/8	1	2.00	A	50A18SS	5/8	0.86
19	50B19SS	4.120	B	5/8	1 3/4	2 1/2	1	2.23	A	50A19SS	5/8	0.94
20	50B20SS	4.320	B	3/4	1 3/4	2 1/2	1	2.30	A	50A20SS	3/4	1.06
21	50B21SS	4.520	B	3/4	2	3	1	2.42	A	50A21SS	23/32	1.40
22	50B22SS	4.720	B	3/4	2	3	1	2.54	A	50A22SS	23/32	1.60
23	50B23SS	4.920	B	3/4	2	3	1	2.67	A	50A23SS	23/32	1.70
24	50B24SS	5.120	B	3/4	2	3	1 1/4	3.38	A	50A24SS	23/32	1.80
25	50B25SS	5.320	B	3/4	2	3	1 1/4	3.42	A	50A25SS	23/32	1.90
26	50B26SS	5.520	B	3/4	2	3	1 1/4	3.57	A	50A26SS	23/32	1.70
28	50B28SS	5.920	B	3/4	2	3	1 1/4	3.88	A	50A28SS	23/32	2.50
30	50B30SS	6.320	B	3/4	2 1/4	3 1/4	1 1/4	4.54	A	50A30SS	23/32	2.70
32	50B32SS	6.721	B	3/4	2 1/4	3 1/4	1 1/4	4.96	A	50A32SS	23/32	2.72
35	50B35SS	7.320	B	3/4	2 1/4	3 1/4	1 1/4	5.44	A	50A35SS	23/32	3.70
36	50B36SS	7.519	B	3/4	2 1/4	3 1/4	1 1/4	5.64	A	50A36SS	23/32	3.82
40	50B40SS	8.320	B	3/4	2 1/4	3 1/4	1 1/4	6.50	A	50A40SS	23/32	4.70
45	50B45SS	9.310	B	3/4	2 1/2	3 3/4	1 1/4	8.50	A	50A45SS	23/32	6.00
48	50B48SS	9.911	B	1	2 1/2	3 3/4	1 1/4	9.28	A	50A46SS	15/16	6.58
54	50B54SS	11.106	B	1	2 1/2	3 3/4	1 1/4	11.00	A	50A54SS	15/16	8.30
60	50B60SS	12.300	B	1	2 1/2	3 3/4	1 1/4	14.00	A	50A60SS	15/16	10.80

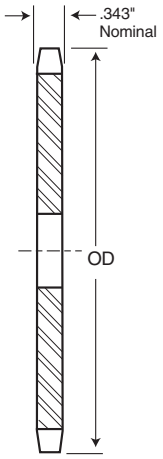
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

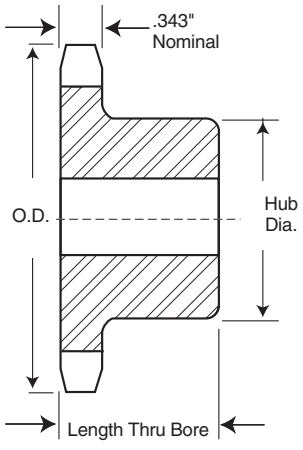
Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

All Steel Stock Sprockets

No. 50 5/8" Pitch



TYPE A



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
8	50B8	1.880	B	5/8	5/8	1 1/16★	1	0.25				
9	50B9	2.090	B	5/8	3/4	1 3/16★	1	0.36				
10	50B10	2.300	B	5/8	7/8	1 9/16★	1	0.48				
11	50B11	2.500	B	5/8	1	1 3/4★	1	0.64				
12	50B12	2.710	B	5/8	1 1/4	1 63/64★	1	0.83	A	50A12	5/8	0.34
13	50B13	2.910	B	5/8	1 5/16	1 7/8	1	0.88	A	50A13	5/8	0.42
14	50B14	3.110	B	5/8	1 7/16	2 1/8	1	1.13	A	50A14	5/8	0.50
15	50B15	3.320	B	5/8	1 1/2	2 3/8	1	1.34	A	50A15	5/8	0.54
16	50B16	3.520	B	5/8	1 3/4	2 1/2	1	1.51	A	50A16	5/8	0.68
17	50B17	3.720	B	5/8	1 7/8	2 11/16	1	1.74	A	50A17	5/8	0.76
18	50B18	3.920	B	5/8	1 7/8	2 7/8	1	2.00	A	50A18	5/8	0.86
19	50B19	4.120	B	5/8	2	3	1	2.22	A	50A19	5/8	0.94
20	50B20	4.320	B	3/4	2	3	1	2.28	A	50A20	3/4	1.06
21	50B21	4.520	B	3/4	2	3	1	2.40	A	50A21	3/4	1.12
22	50B22	4.720	B	3/4	2	3	1	2.56	A	50A22	3/4	1.30
23	50B23	4.920	B	3/4	2	3	1	2.66	A	50A23	3/4	1.44
24	50B24	5.120	B	3/4	2	3	1 1/4	3.30	A	50A24	23/32	1.50
25	50B25	5.320	B	3/4	2	3	1 1/4	3.40	A	50A25	23/32	1.62
26	50B26	5.520	B	3/4	2	3	1 1/4	3.44	A	50A26	23/32	1.72
27	50B27	5.720	B	3/4	2	3	1 1/4	3.74	A	50A27	23/32	1.96
28	50B28	5.920	B	3/4	2	3	1 1/4	3.80	A	50A28	23/32	2.04
29	50B29	6.120	B	3/4	2	3	1 1/4	4.06	A	50A29	23/32	2.36
30	50B30	6.320	B	3/4	2 1/4	3 1/4	1 1/4	4.56	A	50A30	23/32	2.54
31	50B31	6.520	B	3/4	2 1/4	3 1/4	1 1/4	4.74	A	50A31	23/32	2.80
32	50B32	6.720	B	3/4	2 1/4	3 1/4	1 1/4	4.96	A	50A32	23/32	2.72
33	50B33	6.920	B	3/4	2 1/4	3 1/4	1 1/4	5.20	A	50A33	23/32	3.14
34	50B34	7.120	B	3/4	2 1/4	3 1/4	1 1/4	5.14	A	50A34	23/32	3.20
35	50B35	7.320	B	3/4	2 1/4	3 1/4	1 1/4	5.44	A	50A35	23/32	3.34
36	50B36	7.520	B	3/4	2 1/4	3 1/4	1 1/4	5.64	A	50A36	23/32	3.82
37	50B37	7.720	B	3/4	2 1/4	3 1/4	1 1/4	5.90	A	50A37	23/32	3.98
38	50B38	7.920	B	3/4	2 1/4	3 1/4	1 1/4	6.08	A	50A38	23/32	4.14
39	50B39	8.120	B	3/4	2 1/4	3 1/4	1 1/4	6.30	A	50A39	23/32	4.42
40	50B40	8.320	B	3/4	2 1/4	3 1/4	1 1/4	6.50	A	50A40	23/32	4.46
41	50B41	8.520	B	3/4	2 1/4	3 1/4	1 1/4	6.64	A	50A41	23/32	4.86
42	50B42	8.720	B	3/4	2 1/4	3 1/4	1 1/4	6.96	A	50A42	23/32	4.98
43	50B43	8.910	B	3/4	2 1/4	3 1/4	1 1/4	7.06	A	50A43	23/32	5.24
44	50B44	9.110	B	3/4	2 1/4	3 1/4	1 1/4	7.58	A	50A44	23/32	5.42
45	50B45	9.310	B	3/4	2 1/2	3 3/4	1 1/4	8.58	A	50A45	23/32	5.92
46	50B46	9.510	B	1	2 1/2	3 3/4	1 1/4	8.22	A	50A46	15/16	6.42
47	50B47	9.710	B	1	2 1/2	3 3/4	1 1/4	8.48	A	50A47	15/16	6.50
48	50B48	9.910	B	1	2 1/2	3 3/4	1 1/4	9.28	A	50A48	15/16	6.58
49	50B49	10.110	B	1	2 1/2	3 3/4	1 1/4	9.22	A	50A49	15/16	7.06
50	50B50	10.310	B	1	2 1/2	3 3/4	1 1/4	9.88	A	50A50	15/16	7.10
51	50B51	10.510	B	1	2 1/2	3 3/4	1 1/4	9.70	A	50A51	15/16	7.32
52	50B52	10.710	B	1	2 1/2	3 3/4	1 1/4	10.24	A	50A52	15/16	7.98
53	50B53	10.910	B	1	2 1/2	3 3/4	1 1/4	10.48	A	50A53	15/16	8.08
54	50B54	11.110	B	1	2 1/2	3 3/4	1 1/4	11.00	A	50A54	15/16	8.30
55	50B55	11.310	B	1	2 1/2	3 3/4	1 1/4	10.93	A	50A55	15/16	8.56
56	50B56	11.500	B	1	2 1/2	3 3/4	1 1/4	11.50	A	50A56	15/16	8.90
57	50B57	11.700	B	1	2 1/2	3 3/4	1 1/4	12.00	A	50A57	15/16	9.38
58	50B58	11.900	B	1	2 1/2	3 3/4	1 1/4	11.82	A	50A58	15/16	10.30
59	50B59	12.100	B	1	2 1/2	3 3/4	1 1/4	12.32	A	50A59	15/16	10.50
60	50B60	12.300	B	1	2 1/2	3 3/4	1 1/4	13.00	A	50A60	15/16	10.80
70	50B70	14.290	B	1	2 1/2	3 3/4	1 3/4	18.16	A	50A70	15/16	14.00
72	50B72	14.690	B	1	2 1/2	3 3/4	1 3/4	19.48	A	50A72	15/16	15.24
76	50B76	15.486	B	1	2 1/2	3 3/4	1 3/4	21.00	A	50A76	15/16	20.08
80	50B80	16.280	B	1	2 3/4	4 1/4	1 3/4	24.74	A	50A80	15/16	21.00
84	50B84	17.080	B	1	2 3/4	4 1/4	1 3/4	25.50	A	50A84	15/16	22.08
95	50B95	19.270	B	1	2 3/4	4 1/4	1 3/4	32.00	A	50A95	15/16	27.00
96	50B96	19.470	B	1	2 3/4	4 1/4	1 3/4	32.92	A	50A96	15/16	27.40
112	50B112	22.650	B	1	2 3/4	4 1/4	1 3/4	42.00	A	50A112	15/16	37.70

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 50 5/8" Pitch

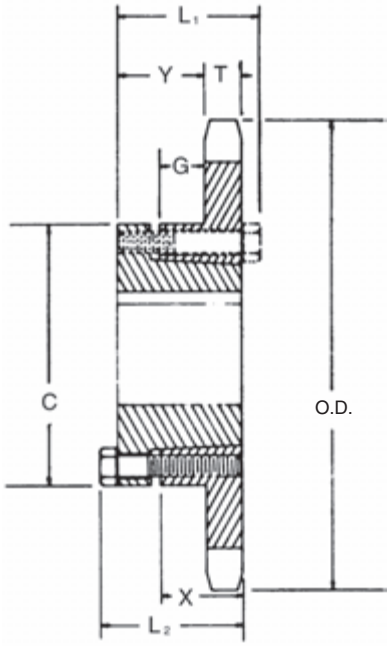
All Steel Stock Sprockets

Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
12	50JA12H
13	50JA13H
14	50JA14H
15	50JA15H
16	50JA16H
17	50SH17H
18	50SH18H
19	50SH19H
20	50SDS20H
21	50SDS21H
22	50SDS22H
23	50SDS23H
24	50SDS24H
25	50SDS25H
26	50SDS26H
27	50SDS27H
28	50SDS28H
30	50SDS30H

SABER TOOTH®





QD — TYPE B

Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions							Weight (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	G	X	T	With Hub	Rim Only
12	50JA12	JA	2.710	2.415	B	1¼	1⅛	1⅛	2 1/16	21/32	9/32	5/8	0.343	1.24	0.34
13	50JA13	JA	2.910	2.612	B	1¼	1⅛	1⅛	2 1/16	21/32	9/32	5/8	0.343	1.30	0.40
14	50JA14	JA	3.110	2.803	B	1¼	1⅛	1⅛	2 1/16	21/32	9/32	5/8	0.343	1.45	0.52
15	50JA15	JA	3.320	3.006	B	1¼	1⅛	1⅛	2 1/16	21/32	9/32	5/8	0.343	1.50	0.60
16	50JA16	JA	3.520	3.204	B	1¼	1⅛	1⅛	2 1/16	21/32	9/32	5/8	0.343	1.58	0.68
17	50SH17	SH	3.720	3.401	B	1⅝	1 7/16	1 7/16	2 11/16	29/32	15/32	13/16	0.343	1.84	0.84
18	50SH18	SH	3.920	3.599	B	1⅝	1 7/16	1 7/16	2 11/16	29/32	15/32	13/16	0.343	2.04	1.04
19	50SH19	SH	4.120	3.797	B	1⅝	1 7/16	1 7/16	2 11/16	29/32	15/32	13/16	0.343	2.24	1.24
20	50SDS20	SDS	4.320	3.995	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	2.20	1.20
21	50SDS21	SDS	4.520	4.194	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	2.32	1.32
22	50SDS22	SDS	4.720	4.392	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	2.48	1.42
23	50SDS23	SDS	4.920	4.590	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	2.58	1.58
24	50SDS24	SDS	5.120	4.788	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	2.70	1.70
25	50SDS25	SDS	5.320	4.987	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	2.86	1.86
26	50SDS26	SDS	5.520	5.185	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	3.00	2.00
27	50SDS27	SDS	5.720	5.384	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	3.12	2.12
28	50SDS28	SDS	5.920	5.582	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	3.32	2.32
30	50SDS30	SDS	6.320	5.979	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	3.64	2.64
32	50SDS32	SDS	6.720	6.376	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	3.98	2.98
35	50SDS35	SDS	7.320	6.972	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	4.62	3.62
36	50SDS36	SDS	7.520	7.171	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	4.64	3.64
40	50SDS40	SDS	8.320	7.966	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	5.74	4.74
42	50SDS42	SDS	8.720	8.363	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	6.40	5.40
45	50SDS45	SDS	9.310	8.960	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	6.90	5.90
48	50SDS48	SDS	9.910	9.556	B	2	1½	1½	3 3/16	31/32	13/32	¾	0.343	7.66	6.66
54	50SK54	SK	11.110	10.749	B	2⅝	2⅛	2⅛	3⅞	1 17/32	29/32	1¼	0.343	11.68	9.68
60	50SK60	SK	12.300	11.942	B	2⅝	2⅛	2⅛	3⅞	1 17/32	29/32	1¼	0.343	13.88	11.88
70	50SK70	SK	14.290	13.931	B	2⅝	2⅛	2⅛	3⅞	1 17/32	29/32	1¼	0.343	17.52	15.52
72	50SK72	SK	14.690	14.329	B	2⅝	2⅛	2⅛	3⅞	1 17/32	29/32	1¼	0.343	18.44	16.44
80	50SF80	SF	16.280	15.920	B	2 15/16	2¼	2¼	4⅝	1 21/32	29/32	1¼	0.343	22.90	19.90
84	50SF84	SF	17.080	16.715	B	2 15/16	2¼	2¼	4⅝	1 21/32	29/32	1¼	0.343	25.98	22.98
96	50SF96	SF	19.470	19.102	B	2 15/16	2¼	2¼	4⅝	1 21/32	29/32	1¼	0.343	32.88	29.88
112	50SF112	SF	22.650	22.285	B	2 15/16	2¼	2¼	4⅝	1 21/32	29/32	1¼	0.343	43.10	40.10

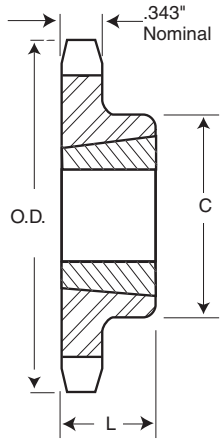
All Steel Stock Sprockets

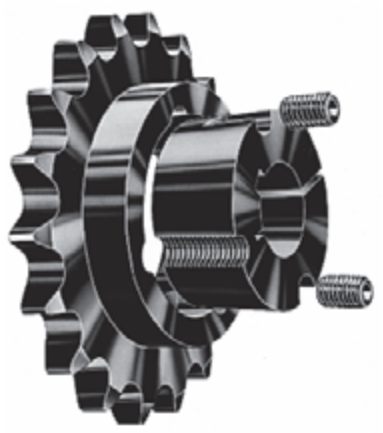
No. 50 5/8" Pitch

Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
12	50BTB12H
13	50BTB13H
14	50BTB14H
15	50BTB15H
16	50BTB16H
17	50BTB17H
18	50BTB18H
19	50BTB19H
20	50BTB20H
21	50BTB21H
22	50BTB22H
23	50BTB23H
24	50BTB24H
25	50BTB25H
26	50BTB26H
27	50BTB27H
28	50BTB28H
30	50BTB30H

SABER TOOTH®





TYPE B

Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
12	50BTB12	1008	2.708	2.415	1	7/8	1 15/16★★	B	0.5	0.3
13	50BTB13	1008	2.911	2.612	1	7/8	1 15/16	B	0.5	0.3
14	50BTB14	1008	3.113	2.809	1	7/8	1 15/16	B	0.6	0.3
15	50BTB15	1210	3.315	3.006	1 1/4	1	2 1/32★★	B	0.7	0.6
16	50BTB16	1610	3.517	3.204	1 3/8	1	2 25/32★★	B	0.7	0.9
17	50BTB17	1610	3.719	3.401	1 3/8	1	2 25/32★★	B	0.8	0.9
18	50BTB18	1610	3.920	3.599	1 3/8	1	2 25/32	B	0.9	0.9
19	50BTB19	1610	4.120	3.797	1 3/8	1	3	B	1.3	0.9
20	50BTB20	1610	4.321	3.995	1 3/8	1	3 1/4	B	1.6	0.9
21	50BTB21	1610	4.522	4.193	1 3/8	1	3 1/2	B	1.5	0.9
22	50BTB22	1610	4.722	4.392	1 3/8	1	3 1/2	B	1.6	0.9
23	50BTB23	2012	4.922	4.590	2	1 1/4	3 7/8	B	2.0	1.7
24	50BTB24	2012	5.122	4.788	2	1 1/4	4	B	2.2	1.7
25	50BTB25	2012	5.322	4.987	2	1 1/4	4	B	2.4	1.7
26	50BTB26	2012	5.522	5.185	2	1 1/4	4	B	2.5	1.7
27	50BTB27	2012	5.723	5.384	2	1 1/4	4	B	2.6	1.7
28	50BTB28	2012	5.922	5.582	2	1 1/4	4	B	2.8	1.7
30	50BTB30	2012	6.321	5.979	2	1 1/4	3 9/16	B	3.2	1.7
32	50BTB32	2012	6.721	6.376	2	1 1/4	3 9/16	B	3.6	1.7
35	50BTB35	2012	7.319	6.972	2	1 1/4	3 9/16	B	4.2	1.7
36	50BTB36	2012	7.519	7.171	2	1 1/4	3 9/16	B	4.3	1.7
40	50BTB40	2012	8.316	7.966	2	1 1/4	3 9/16	B	5.2	1.7
42	50BTB42	2012	8.715	8.363	2	1 1/4	3 9/16	B	5.9	1.7
45	50BTB45	2012	9.313	8.960	2	1 1/4	3 9/16	B	6.5	1.7
48	50BTB48	2012	9.911	9.556	2	1 1/4	3 9/16	B	7.3	1.7
54	50BTB54	2012	11.106	10.749	2	1 1/4	3 9/16	B	9.0	1.7
60	50BTB60	2012	12.301	11.942	2	1 1/4	3 9/16	B	10.8	1.7
70	50BTB70	2517	14.292	13.931	2 1/2	1 3/4	4 1/4	B	14.0	3.5
72	50BTB72	2517	14.690	14.329	2 1/2	1 3/4	4 1/4	B	15.5	3.5
80	50BTB80	2517	16.282	15.920	2 1/2	1 3/4	4 1/4	B	19.5	3.5
84	50BTB84	2517	17.079	16.715	2 1/2	1 3/4	4 1/4	B	22.5	3.5
96	50BTB96	2517	19.466	19.102	2 1/2	1 3/4	4 1/4	B	29.0	3.5
112	50BTB112	2517	22.651	22.285	2 1/2	1 3/4	4 1/4	B	38.7	3.5

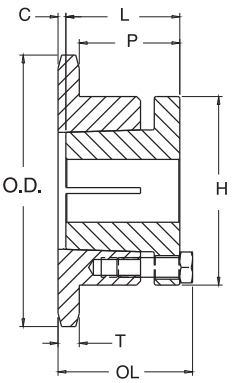
★★ Has recessed groove in hub for chain clearance.

No. 50
5/8" Pitch

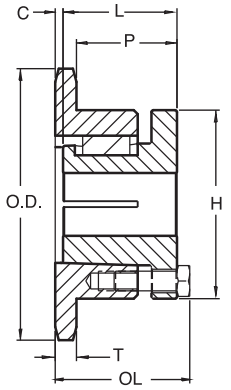
MST® Sprockets

Single - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters Outside Dia.	Diameters Pitch Dia.	Type	Max. Bore	Dimensions OL	Dimensions L	Dimensions C	Dimensions H	Dimensions P	Dimensions T(nom)	Weight Lbs. (Approx.) With Hub	Weight Lbs. (Approx.) Rim Only
13	50H13H	H	2.910	2.612	3	1-1/2	1 21/32	1 1/4	7/32	2-1/2	1-1/8	0.343	1.4	0.6
14	50H14H	H	3.110	2.809	3	1-1/2	1 19/32	1 1/4	5/32	2-1/2	1-1/16	0.343	1.4	0.6
15	50H15H	H	3.320	3.006	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.6	0.8
15	50P15H	P1	3.320	3.006	4	1-3/4	2 3/16	1 15/16	–	3	1-19/32	0.343	2.4	1.1
16	50H16H	H	3.520	3.204	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.7	0.9
16	50P16H	P1	3.520	3.204	4	1-3/4	2 3/16	1 15/16	–	3	1-19/32	0.343	2.7	1.4
17	50H17H	H	3.720	3.401	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.8	1.0
17	50P17H	P1	3.720	3.401	4	1-3/4	2 3/16	1 15/16	–	3	1-19/32	0.343	2.7	1.4
18	50H18H	H	3.920	3.599	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.9	1.1
18	50P18H	P1	3.920	3.599	4	1-3/4	2 3/16	1 15/16	–	3	1-19/32	0.343	3.1	1.8
19	50H19H	H	4.120	3.797	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	2.1	1.3
19	50P19H	P1	4.120	3.797	4	1-3/4	2 3/16	1 15/16	–	3	1-19/32	0.343	3.1	1.8
20	50H20H	H	4.320	3.995	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	2.3	1.5
20	50P20H	P1	4.320	3.995	4	1-3/4	2 3/16	1 15/16	–	3	1-19/32	0.343	3.3	2.0
21	50H21H	H	4.520	4.194	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	2.2	1.4
21	50P21H	P1	4.520	4.194	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	3.4	2.1
22	50H22H	H	4.720	4.392	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.3	1.5
22	50P22H	P1	4.720	4.392	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	3.5	2.2
23	50H23H	H	4.920	4.590	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.5	1.7
23	50P23H	P1	4.920	4.590	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	3.7	2.4
23	50Q23H	Q1	4.920	4.590	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	6.7	3.2
24	50H24H	H	5.120	4.788	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.6	1.8
24	50P24H	P1	5.120	4.788	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	3.9	2.6
24	50Q24H	Q1	5.120	4.788	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	7.0	3.5
25	50H25H	H	5.320	4.987	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.7	1.9
25	50P25H	P1	5.320	4.987	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	4.0	2.7
25	50Q25H	Q1	5.320	4.987	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	7.1	3.6
26	50H26H	H	5.520	5.185	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.8	2.0
26	50P26H	P1	5.520	5.185	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	4.1	2.8
26	50Q26H	Q1	5.520	5.185	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	7.2	3.7
27	50H27H	H	5.720	5.384	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	3.0	2.2
27	50P27H	P1	5.720	5.384	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	4.2	2.9
27	50Q27H	Q1	5.720	5.384	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	7.3	3.8
28	50H28H	H	5.920	5.582	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	3.3	2.5
28	50P28H	P1	5.920	5.582	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	4.3	3.0
28	50Q28H	Q1	5.920	5.582	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	7.5	4.0
29	50P29H	P1	6.120	5.781	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	4.7	3.4
30	50H30H	H	6.320	5.979	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	3.7	2.9
30	50P30H	P1	6.320	5.979	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	4.9	3.6
30	50Q30H	Q1	6.320	5.979	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	9.1	5.6
31	50P31	P1	6.520	6.178	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	4.9	3.6
32	50H32H	H	6.720	6.376	3	1-1/2	1-1/2	1 1/4	1/16	2-1/2	31/32	0.343	4.0	3.2
32	50P32	P1	6.720	6.376	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	5.2	3.9
32	50Q32	Q1	6.720	6.376	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	9.6	6.1
33	50H33H	H	6.920	6.575	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.2	3.4
33	50P33	P1	6.920	6.575	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	5.4	4.1
34	50H34H	H	7.120	6.774	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.5	3.7
34	50P34	P1	7.120	6.774	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	5.6	4.3
35	50H35H	H	7.320	6.972	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.6	3.8
35	50P35	P1	7.320	6.972	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	5.6	4.3
35	50Q35	Q1	7.320	6.972	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2 5/32	0.343	10.3	6.8
36	50H36H	H	7.520	7.171	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.8	4.0
36	50P36	P1	7.520	7.171	4	1-3/4	2-3/16	1-15/16	–	3	1-19/32	0.343	6.1	4.8
36	50Q36	Q1	7.520	7.171	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	10.3	6.8
37	50Q37	Q1	7.720	7.370	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	10.5	7.0
38	50H38H	H	7.920	7.569	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	5.2	4.4
38	50Q38	Q1	7.920	7.569	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	10.9	7.4
39	50Q39	Q1	8.120	7.767	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	11.1	7.6
40	50H40H	H	8.320	7.966	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	5.6	4.8
40	50Q40	Q1	8.320	7.966	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	11.5	8.0
41	50Q41	Q1	8.520	8.165	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	11.7	8.2
42	50Q42	Q1	8.720	8.363	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	11.8	8.3
44	50Q44	Q1	9.110	8.761	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	12.1	8.6
45	50Q45	Q1	9.310	8.960	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	12.5	9.0
47	50Q47	Q1	9.710	9.357	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	12.8	9.3
48	50Q48	Q1	9.910	9.556	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	13.1	9.6
50	50Q50	Q1	10.310	9.954	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	13.3	9.8
54	50Q54	Q1	11.110	10.749	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	14.8	11.3
56	50Q56	Q1	11.500	11.147	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	15.8	12.3
60	50Q60	Q1	12.300	11.942	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	16.8	13.3
70	50Q70	Q1	14.290	13.931	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	20.4	16.9
72	50Q72	Q1	14.690	14.329	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	21.6	18.1
80	50Q80	Q1	16.280	15.920	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	24.6	21.1
84	50Q84	Q1	17.080	16.715	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	27.8	24.3
96	50Q96	Q1	19.470	19.102	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	33.3	29.8
112	50Q112	Q1	22.650	22.285	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-5/32	0.343	42.8	39.3



TYPE 3

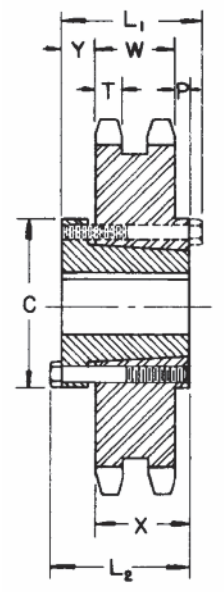


TYPE 4

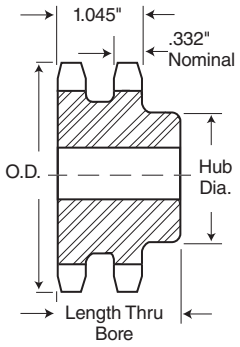
Sprockets with "H" suffix have hardened teeth.

All Steel Stock Sprockets

No. 50-2 5/8" Pitch



QD — TYPE C



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Double - Type B

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	D50B11H	2.500	B	5/8	15/16	1 15/32	1 3/4	0.96
12	D50B12H	2.710	B	5/8	1 1/8	1 11/16	1 3/4	1.25
13	D50B13H	2.910	B	5/8	1 5/16	1 7/8	1 3/4	1.56
14	D50B14H	3.110	B	5/8	1 3/8	2 1/16	1 3/4	1.86
15	D50B15H	3.320	B	3/4	1 1/2	2 5/16	1 3/4	2.22
16	D50B16H	3.520	B	3/4	1 3/4	2 1/2	1 3/4	2.62
17	D50B17H	3.720	B	3/4	1 7/8	2 11/16	1 3/4	3.04
18	D50B18H	3.920	B	3/4	1 15/16	2 7/8	1 3/4	3.58
19	D50B19H	4.120	B	1	2 1/8	3 1/8	1 3/4	3.90
20	D50B20H	4.320	B	1	2 1/4	3 1/4	1 3/4	4.26
21	D50B21H	4.520	B	1	2 3/8	3 1/2	1 3/4	4.90
22	D50B22H	4.720	B	1	2 3/8	3 9/16	1 7/8	5.58
23	D50B23H	4.920	B	1	2 1/2	3 5/8	1 7/8	6.10
24	D50B24H	5.120	B	1	2 1/2	3 5/8	1 7/8	6.50
25	D50B25H	5.320	B	1	2 1/2	3 5/8	1 7/8	6.94
26	D50B26	5.520	B	1	2 1/2	3 3/4	1 7/8	7.54
30	D50B30	6.320	B	1	2 1/2	3 3/4	1 7/8	9.40
32	D50B32	6.720	B	1	2 1/2	3 3/4	1 7/8	10.46
35	D50B35	7.320	B	1	2 1/2	3 3/4	1 7/8	12.28
36	D50B36	7.520	B	1 3/16	2 3/4	4	2 1/8	13.94
40	D50B40	8.320	B	1 3/16	2 3/4	4	2 1/8	16.54
42	D50B42	8.720	B	1 3/16	2 3/4	4	2 1/8	17.92
45	D50B45	9.310	B	1 3/16	2 3/4	4	2 1/8	20.30
48	D50B48	9.910	B	1 3/16	2 3/4	4 1/4	2 3/8	24.08
52	D50B52	10.710	B	1 3/16	2 3/4	4 1/4	2 3/8	27.42
54	D50B54	11.110	B	1 3/16	2 3/4	4 1/4	2 3/8	29.16
60	D50B60	12.300	B	1 5/16	3	4 1/2	2 3/8	35.88
68	D50B68	13.890	B	1 5/16	3	4 1/2	2 3/8	44.98
72	D50B72	14.690	B	1 5/16	3	4 1/2	2 3/8	50.22
76	D50B76	15.490	B	1 5/16	3	4 1/2	2 3/8	45.64
84	D50B84	17.080	B	1 5/16	3	4 1/2	2 3/8	51.64
95	D50B95	19.270	B	1 5/16	3	4 1/2	2 3/8	64.32
96	D50B96	19.470	B	1 5/16	3	4 1/2	2 3/8	67.42
102	D50B102	20.660	B	1 5/16	3	4 1/2	2 3/8	72.68
112	D50B112	22.650	B	1 5/16	3 5/16	5 1/4	2 3/8	90.22

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

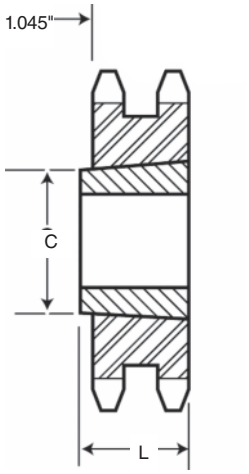
NOTE: Double 50 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

Double - Type QD

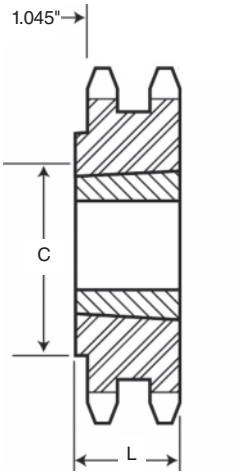
No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
36	D50SK36	SK	7.520	7.171	C	2 5/8	2 1/8	2 1/8	3 7/8	5/8	13/64	1 1/4	0.332	1.045	11.08	9.08
42	D50SK42	SK	8.720	8.363	C	2 5/8	2 1/8	2 1/8	3 7/8	5/8	13/64	1 1/4	0.332	1.045	15.16	13.16
48	D50SK48	SK	9.910	9.556	C	2 5/8	2 1/8	2 1/8	3 7/8	5/8	13/64	1 1/4	0.332	1.045	19.90	17.90
52	D50SF52	SF	10.710	10.351	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	24.26	21.26
54	D50SF54	SF	11.110	10.749	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	26.18	23.18
60	D50SF60	SF	12.300	11.942	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	32.12	29.12
68	D50SF68	SF	13.890	13.533	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	41.16	38.16
72	D50SF72	SF	14.690	14.329	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	46.28	43.26
76	D50SF76	SF	15.490	15.124	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	47.00	44.00
84	D50SF84	SF	17.080	16.715	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	48.89	45.88
95	D50SF95	SF	19.270	18.903	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	61.80	58.88
102	D50SF102	SF	20.660	20.295	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	69.02	66.02
112	D50SF112	SF	22.650	22.285	C	2 15/16	2 1/4	2 1/4	4 5/8	3/4	13/64	1 1/4	0.332	1.045	88.26	85.26

No. 50-2
⅝" Pitch

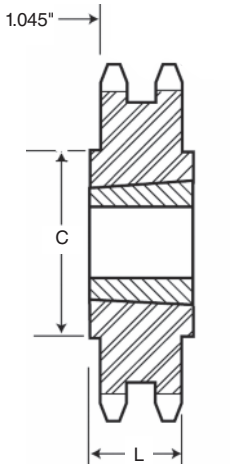
All Steel Stock Sprockets



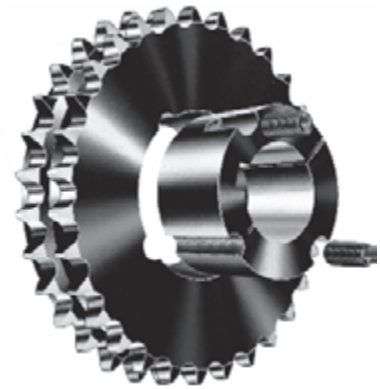
TYPE A



TYPE B



TYPE C



Double - Taper Bushed

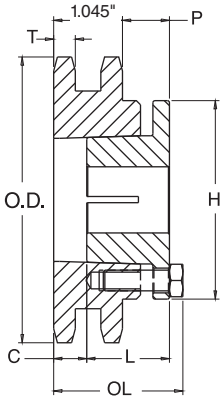
No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
14	D50ATB14H	1008	3.113	2.809	1	⅞	–	A	0.8	0.3
15	D50ATB15H	1210	3.315	3.006	1¼	1	–	A	0.9	0.6
16	D50ATB16H	1210	3.517	3.204	1¼	1	–	A	1.1	0.6
17	D50ATB17H	1610	3.719	3.410	1⅝	1	–	A	1.1	0.6
18	D50ATB18H	1610	3.920	3.599	1⅝	1	–	A	1.3	0.9
19	D50ATB19H	1610	4.120	3.797	1⅝	1	–	A	1.6	0.9
20	D50BTB20H	2012	4.321	3.995	2	1¼	3¼	B	1.5	1.7
21	D50BTB21H	2012	4.522	4.193	2	1¼	3½	B	1.9	1.7
25	D50BTB25H	2012	5.322	4.987	2	1¼	4²⁄₃₂	B	3.8	1.7
30	D50BTB30	2517	6.321	5.979	2½	1¾	5²⁄₃₂	B	7.5	3.5
36	D50CTB36	2517	7.519	7.171	2½	1¾	4¼	C	9.4	3.5
42	D50CTB42	2517	8.715	8.363	2½	1¾	4¼	C	13.4	3.5
48	D50CTB48	2517	9.911	9.556	2½	1¾	4¼	C	18.6	3.5
52	D50CTB52	2517	10.707	10.351	2½	1¾	4⅜	C	22.2	3.5
60	D50CTB60	2517	12.301	11.942	2½	1¾	4⅜	C	30.3	3.5
68	D50CTB68	2517	13.893	13.533	2½	1¾	4⅜	C	39.4	3.5
76	D50CTB76	2517	15.486	15.124	2½	1¾	4⅜	C	41.2	3.5
84	D50CTB84	2517	17.079	16.715	2½	1¾	4⅜	C	45.3	3.5
95	D50CTB95	2517	19.267	18.903	2½	1¾	4⅜	C	58.8	3.5
102	D50CTB102	2517	20.661	20.295	2½	1¾	4⅜	C	67.1	3.5

NOTE: Double 50 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

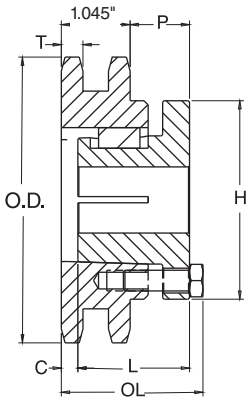
MST® Sprockets

No. 50-2 5/8" Pitch

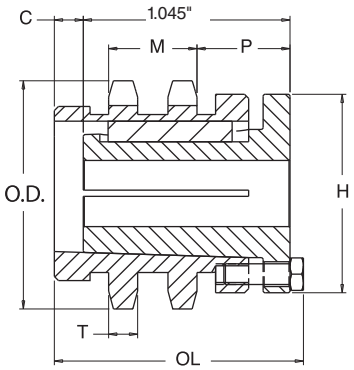




TYPE 11



TYPE 12



TYPE 16

Double - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
14	D50H14H	H	3.110	2.809	11	1-1/2	2-5/16	1-1/4	7/8	2-1/2	1-3/32	0.332	2.0	1.2
15	D50P15H	P1	3.320	3.006	16	1-3/4	3-7/16	1-15/16	1-1/4	3	1-13/32	0.332	3.3	2.0
16	D50P16H	P1	3.520	3.204	12	1-3/4	2-11/16	1-15/16	1/2	3	1-13/32	0.332	2.9	1.6
17	D50P17H	P1	3.720	3.401	12	1-3/4	2-11/16	1-15/16	1/2	3	1-13/32	0.332	3.4	2.1
18	D50P18H	P1	3.920	3.599	12	1-3/4	2-11/16	1-15/16	1/2	3	1-13/32	0.332	3.8	2.5
19	D50P19H	P1	4.120	3.797	12	1-3/4	2-3/16	1-15/16	–	3	29/32	0.332	3.3	2.0
20	D50P20H	P1	4.320	3.995	12	1-3/4	2-3/16	1-15/16	–	3	29/32	0.332	3.8	2.5
21	D50P21H	P1	4.520	4.194	12	1-3/4	2-3/16	1-15/16	–	3	29/32	0.332	4.1	2.8
22	D50P22H	P1	4.720	4.392	12	1-3/4	2-3/16	1-15/16	–	3	29/32	0.332	4.5	3.2
23	D50P23H	P1	4.920	4.590	12	1-3/4	2-3/16	1-15/16	–	3	29/32	0.332	4.9	3.6
24	D50Q24H	Q1	5.120	4.788	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	7.5	4.0
25	D50Q25H	Q1	5.320	4.987	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	8.0	4.5
26	D50Q26H	Q1	5.520	5.185	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	8.8	5.3
27	D50Q27H	Q1	5.720	5.384	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	9.4	5.9
28	D50Q28H	Q1	5.920	5.582	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	9.8	6.3
30	D50Q30H	Q1	6.320	5.979	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	11.0	7.5
32	D50Q32H	Q1	6.720	6.376	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	12.0	8.5
35	D50Q35H	Q1	7.320	6.972	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	13.9	10.4
36	D50Q36H	Q1	7.520	7.171	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	14.5	11.0
40	D50Q40H	Q1	8.320	7.966	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	17.1	13.6
42	D50Q42H	Q1	8.720	8.363	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	18.5	15.0
45	D50Q45H	Q1	9.310	8.960	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	21.0	17.5
48	D50Q48H	Q1	9.910	9.556	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	23.9	20.4
52	D50Q52	Q1	10.710	10.351	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	26.8	23.3
54	D50Q54	Q1	11.110	10.749	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	26.8	23.3
60	D50Q60	Q1	12.300	11.942	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	29.0	25.5
72	D50Q72	Q1	14.690	14.329	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	46.6	43.1
76	D50Q76	Q1	15.490	15.124	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	49.5	46.0
84	D50Q84	Q1	17.080	16.715	12	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/32	0.332	60.2	56.7
95	D50R95	R1	19.270	18.903	12	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/32	0.332	79.8	72.3
96	D50R96	R1	19.470	19.102	12	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/32	0.332	88.2	80.7
102	D50R102	R1	20.660	20.295	12	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/32	0.332	92.0	84.5
112	D50R112	R1	22.650	22.285	12	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/32	0.332	100.7	93.2

Sprockets with “H” suffix have hardened teeth.

No. 50-3
5/8" Pitch

All Steel Stock Sprockets

Triple - Type B & C

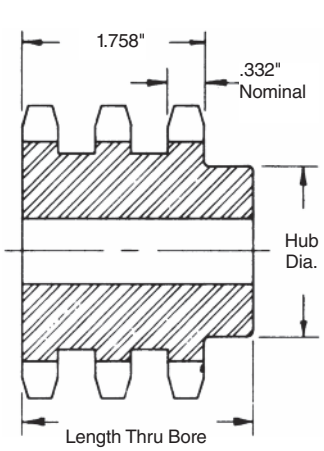
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	E50B11H	2.500	B	5/8	15/16	1 15/32	2 1/2	1.42
12	E50B12H	2.710	B	5/8	1 1/8	1 11/16	2 1/2	1.84
13	E50B13H	2.910	B	5/8	1 5/16	1 7/8	2 1/2	2.28
14	E50B14H	3.110	B	5/8	1 3/8	2 1/16	2 1/2	2.72
15	E50B15H	3.320	B	3/4	1 1/2	2 5/16	2 1/2	3.24
16	E50B16H	3.520	B	3/4	1 3/4	2 1/2	2 1/2	3.76
17	E50B17H	3.720	B	3/4	1 7/8	2 11/16	2 1/2	4.38
18	E50B18H	3.920	B	3/4	1 15/16	2 15/16	2 1/2	5.10
19	E50B19H	4.120	B	1	2 1/8	3 1/8	2 1/2	5.60
20	E50B20H	4.320	B	1	2 1/4	3 1/4	2 5/8	6.42
21	E50B21H	4.520	B	1	2 3/8	3 1/2	2 5/8	7.42
22	E50B22H	4.720	B	1	2 3/8	3 9/16	2 5/8	8.13
23	E50B23H	4.920	B	1	2 1/2	3 5/8	2 5/8	8.85
24	E50B24H	5.120	B	1	2 1/2	3 5/8	2 5/8	9.42
25	E50B25H	5.320	B	1	2 1/2	3 5/8	2 5/8	10.16
26	E50B26	5.520	B	1	2 1/2	3 3/4	2 5/8	11.02
30	E50B30	6.320	B	1	2 1/2	3 3/4	2 5/8	14.24
35	E50B35	7.320	B	1	2 1/2	3 3/4	2 5/8	19.09
36	E50B36	7.520	B	1 3/16	2 3/4	4	2 3/4	20.60
42	E50B42	8.720	B	1 3/16	2 3/4	4	2 3/4	27.46
48	E50B48	9.910	B	1 3/16	2 3/4	4	3 1/8	36.64
52	E50B52	10.710	B	1 3/16	2 3/4	4	3 1/8	42.54
60	E50B60	12.300	B	1 5/16	3	4 1/2	3 1/8	57.17
68	E50B68	13.890	B	1 5/16	3	4 1/2	3 1/8	73.21
72	E50C72	14.690	C	1 5/16	3	4 3/4	3 1/2	57.04
76	E50C76	15.490	C	1 5/16	3	4 3/4	3 1/2	61.57
84	E50C84	17.080	C	1 5/16	3	4 3/4	3 1/2	62.86
95	E50C95	19.270	C	1 5/16	3	4 3/4	3 3/4	75.01
102	E50C102	20.660	C	1 5/16	3	4 3/4	3 3/4	86.26

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

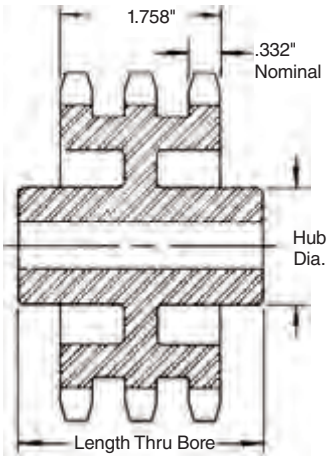
NOTE: Triple 50 stock sprockets with 25 teeth or less have Hardened Teeth. As indicated by H suffix.

Alteration Charges

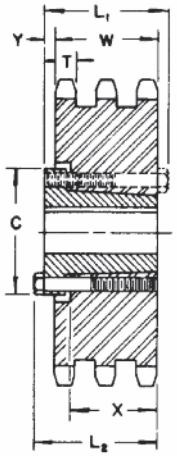
See current discount sheet for alteration charges.



TYPE B



TYPE C



QD — TYPE B

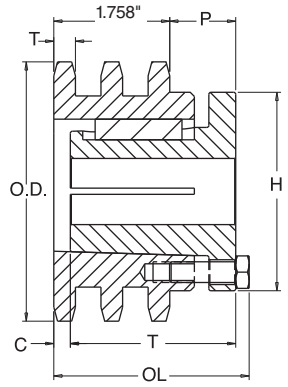
NOTE: Triple 50 stock sprockets with 25 teeth or less have hardened teeth.

Triple - Type QD

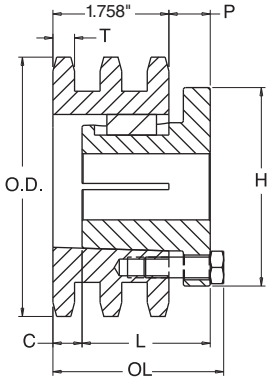
No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	V	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
36	E50SK36	SK	7.520	7.171	B	2 5/8	2 1/8	2 1/8	3 7/8	1/8	–	1 1/4	0.332	1.758	14.8	12.8
42	E50SK42	SK	8.720	8.363	B	2 5/8	2 1/8	2 1/8	3 7/8	1/8	–	1 1/4	0.332	1.758	21.5	19.5
48	E50SK48	SK	9.910	9.556	B	2 5/8	2 1/8	2 1/8	3 7/8	1/8	–	1 1/4	0.332	1.758	29.6	27.6
52	E50SF52	SF	10.710	10.351	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	–	1 1/4	0.332	1.758	31.6	28.6
60	E50SF60	SF	12.300	11.942	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	–	1 1/4	0.332	1.758	42.1	41.3
68	E50SF68	SF	13.890	13.533	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	–	1 1/4	0.332	1.758	53.8	45.3
72	E50SF72	SF	14.690	14.329	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	1/2	1 1/4	0.332	1.758	46.6	60.2
76	E50SF76	SF	15.490	15.124	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	1/2	1 1/4	0.332	1.758	49.9	67.3
84	E50SF84	SF	17.080	16.715	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	1/2	1 1/4	0.332	1.758	53.9	72.4
95	E50SF95	SF	19.270	18.903	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	1/2	1 1/4	0.332	1.758	62.3	91.4
102	E50SF102	SF	20.660	20.295	B	2 15/16	2 1/4	2 1/4	4 5/8	1/4	1/2	1 1/4	0.332	1.758	69.3	103.2

MST® Sprockets

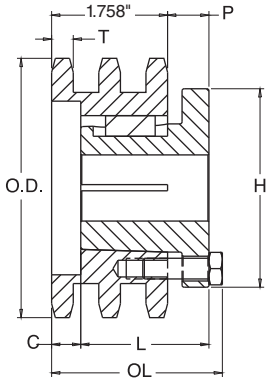
No. 50-3 5/8" Pitch



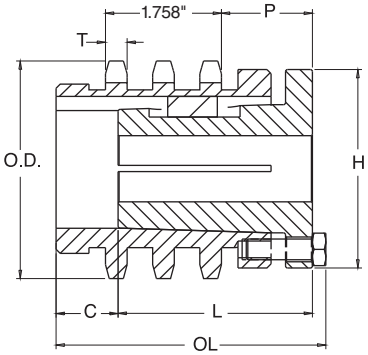
TYPE 22



TYPE 23



TYPE 24



TYPE 27

Triple - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
15	E50P15H	P2	3.320	3.006	27	1-3/4	4-1/8	2-15/16	15/16	3	1-3/8	0.332	4.0	2.5
16	E50P16H	P2	3.520	3.204	22	1-3/4	3 3/8	2-15/16	3/16	3	1-3/8	0.332	3.9	2.4
17	E50P17H	P2	3.720	3.401	22	1-3/4	3 3/8	2-15/16	3/16	3	1-3/8	0.332	4.3	2.8
18	E50P18H	P2	3.920	3.599	22	1-3/4	3 3/8	2-15/16	3/16	3	1-3/8	0.332	4.9	3.4
19	E50P19H	P1	4.120	3.797	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	4.2	2.9
20	E50P20H	P1	4.320	3.995	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	4.4	3.1
21	E50P21H	P1	4.520	4.194	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	4.8	3.5
23	E50P23H	P1	4.920	4.590	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	5.8	4.5
24	E50Q24H	Q1	5.120	4.788	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	8.2	4.7
25	E50Q25H	Q1	5.320	4.987	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	8.5	5.0
26	E50Q26H	Q1	5.520	5.185	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	9.4	5.9
28	E50Q28H	Q1	5.920	5.582	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	10.8	7.3
30	E50Q30H	Q1	6.320	5.979	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	12.3	8.8
32	E50Q32H	Q1	6.720	6.376	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	14.4	10.9
35	E50Q35H	Q1	7.320	6.972	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	17.2	13.7
36	E50Q36H	Q1	7.520	7.171	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	18.1	14.6
40	E50Q40H	Q1	8.320	7.966	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	22.6	19.1
42	E50Q42H	Q1	8.720	8.363	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	25.0	21.5
48	E50Q48H	Q1	9.910	9.556	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	33.1	29.6
52	E50Q52	Q1	10.710	10.351	23	2-11/16	2-25/32	2-1/2	–	4-1/8	3/4	0.332	39.9	36.4
60	E50R60	R1	12.300	11.942	22	3-3/4	2-5/32	2-7/8	–	5-3/8	1-1/8	0.332	55.5	48.0
68	E50R68	R1	13.890	13.533	22	3-3/4	2-5/32	2-7/8	–	5-3/8	1-1/8	0.332	71.0	63.5
72	E50R72	R1	14.690	14.329	22	3-3/4	2-5/32	2-7/8	–	5-3/8	1-1/8	0.332	79.5	72.0
76	E50R76	R1	15.490	15.124	22	3-3/4	2-5/32	2-7/8	–	5-3/8	1-1/8	0.332	88.5	81.0
84	E50R84	R1	17.080	16.715	22	3-3/4	2-5/32	2-7/8	–	5-3/8	1-1/8	0.332	107.5	100.0
95	E50R95	R1	19.270	18.903	22	3-3/4	2-5/32	2-7/8	–	5-3/8	1-1/8	0.332	137.5	130.0
102	E50R102	R1	20.660	20.295	22	3-3/4	2-5/32	2-7/8	–	5-3/8	1-1/8	0.332	158.5	151.0

Sprockets with "H" suffix have hardened teeth.

No. 60 ¾" Pitch

All Steel Stock Sprockets

Single Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and Setscrews
9	60BS9	2.510	1¼	0.6	¾ — ⅞ — 1
10	60BS10	2.760	1¼	0.7	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼
11	60BS11	3.000	1¼	0.9	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼
11	60BS11W★	3.000	1¼	0.8	1¼
12	60BS12	3.250	1¼	1.3	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — — 1⅞
12	60BS12W★	3.250	1¼	1.1	1¼
13	60BS13	3.490	1¼	1.3	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
14	60BS14	3.740	1¼	1.6	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝
15	60BS15	3.980	1¼	1.7	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾
16	60BS16	4.220	1¼	2.1	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
17	60BS17	4.460	1¼	2.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
18	60BS18	4.700	1¼	2.6	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
18	60BS18W★	4.700	1¼	2.6	1¼
19	60BS19	4.950	1¼	3.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
20	60BS20	5.190	1¼	3.9	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
21	60BS21	5.430	1¼	4.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
22	60BS22	5.670	1¼	4.7	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
23	60BS23	5.910	1¼	5.0	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
24	60BS24	6.150	1¼	5.3	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
25	60BS25	6.390	1¼	5.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
26	60BS26	6.630	1¼	5.8	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
27	60BS27	6.870	1¼	6.3	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
28	60BS28	7.110	1¼	6.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
29	60BS29	7.350	1¼	6.9	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
30	60BS30	7.590	1¼	7.1	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
31	60BS31	7.830	1¼	7.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
32	60BS32	8.070	1¼	7.8	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
33	60BS33	8.300	1¼	8.2	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
34	60BS34	8.540	1¼	8.5	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
35	60BS35	8.780	1¼	8.8	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16
36	60BS36	9.020	1¼	9.2	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
37	60BS37	9.260	1¼	9.9	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
38	60BS38	9.500	1¼	10.5	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
39	60BS39	9.740	1¼	10.9	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
40	60BS40	9.980	1¼	11.2	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
41	60BS41	10.220	1¼	11.8	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
42	60BS42	10.460	1¼	12.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
43	60BS43	10.700	1¼	13.0	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
44	60BS44	10.940	1¼	13.5	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
45	60BS45	11.180	1¼	13.8	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
46	60BS46	11.420	1¼	14.1	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
47	60BS47	11.650	1¼	14.6	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
48	60BS48	11.890	1¼	15.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
49	60BS49	12.130	1¼	16.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
50	60BS50	12.370	1¼	17.3	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
51	60BS51	12.610	1¼	18.3	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
52	60BS52	12.850	1¼	19.3	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
53	60BS53	13.090	1¼	20.3	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
54	60BS54	13.330	1¾	21.0	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
55	60BS55	13.570	1¾	21.2	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
56	60BS56	13.810	1¾	21.3	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
57	60BS57	14.040	1¾	22.2	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
58	60BS58	14.280	1¾	23.0	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
59	60BS59	14.520	1¾	23.8	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
60	60BS60	14.760	1¾	25.0	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
70	60BS70	17.150	1¾	31.4	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
72	60BS72	17.630	2	33.5	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
80	60BS80	19.540	2	41.2	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
84	60BS84	20.490	2	45.8	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
96	60BS96	23.360	2¼	62.3	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16
112	60BS112	27.180	2¼	81.0	— 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15⁄16 — 2 — 2 3⁄16 — 2 7⁄16

Hub diameters vary to suit different bore sizes.

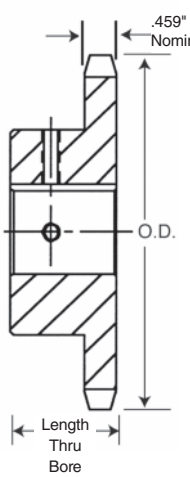
KEYWAY IS ON CENTER LINE OF TOOTH.

W = Winch Sprockets — KW 5⁄16" × 5⁄32" – One SS at 90°

All Steel Stock Sprockets

No. 60 ¾" Pitch





TYPE BS

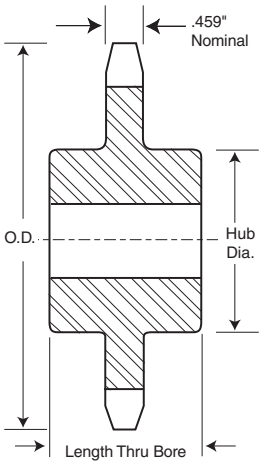
SABER TOOTH®

No. 60-Hardened Teeth — 2 Setscrews

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and Setscrews
9	60BS9HT	2.51	1¼	0.6	¾ — ⅞ — 1
10	60BS10HT	2.76	1¼	0.7	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼
11	60BS11HT	3.00	1¼	0.9	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼
12	60BS12HT	3.25	1¼	1.3	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅞
13	60BS13HT	3.49	1¼	1.3	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½
14	60BS14HT	3.74	1¼	1.6	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝
15	60BS15HT	3.98	1¼	1.7	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾
16	60BS16HT	4.22	1¼	2.1	¾ — ⅞ — 1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15/16
17	60BS17HT	4.46	1¼	2.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15/16
18	60BS18HT	4.70	1¼	2.6	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15/16
19	60BS19HT	4.95	1¼	3.4	1 — 1⅛ — 1⅜ — 1¼ — 1⅜ — 1⅞ — 1½ — 1⅝ — 1¾ — 1 15/16

KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.



TYPE C

Single - Type C

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
12	60C12	3.250	¾	1⅜	2⅜ ★★	2	2.25
13	60C13	3.490	¾	1½	2 11/32	2	2.75
14	60C14	3.740	¾	1¾	2⅜	2	3.19
15	60C15	3.980	¾	1⅞	2⅞	2	3.10
16	60C16	4.220	¾	2	3 1/16	2	4.19
17	60C17	4.460	¾	2¼	3¼	2	4.81
18	60C18	4.700	¾	2⅜	3½	2	5.62

★★ Has recessed groove in hub for chain clearance.

No. 60
¾" Pitch

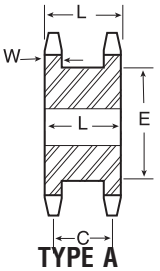
All Steel Stock Sprockets





Double Single - Type A — Steel

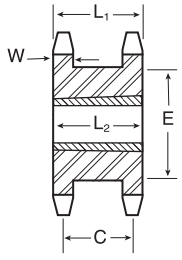
No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
13	DS60A13	3.490	3.134	A	¾	1¼	1 15/16	1 31/64	2 11/32	0.459	2.6
14	DS60A14	3.740	3.371	A	¾	1 5/16	1 15/16	1 31/64	2 9/16	0.459	3.2
15	DS60A15	3.980	3.607	A	¾	1½	1 15/16	1 31/64	2 7/8	0.459	3.8
16	DS60A16	4.220	3.844	A	¾	1 11/16	1 15/16	1 31/64	3 3/64	0.459	4.5
17	DS60A17	4.460	4.082	A	¾	1¾	1 15/16	1 31/64	3¼	0.459	5.3
18	DS60A18	4.700	4.319	A	¾	1⅞	1 15/16	1 31/64	3½	0.459	6.5
19	DS60A19	4.950	4.557	A	¾	2 1/16	1 15/16	1 31/64	3 45/64	0.459	6.8
20	DS60A20	5.190	4.794	A	¾	2¼	1 15/16	1 31/64	3 61/64	0.459	7.0
21	DS60A21	5.430	5.032	A	¾	2¾	1 15/16	1 31/64	4 3/16	0.459	7.5
22	DS60A22	5.670	5.270	A	¾	2¾	1 15/16	1 31/64	4 7/16	0.459	11.0
23	DS60A23	5.910	5.508	A	¾	2¾	1 15/16	1 31/64	4 21/32	0.459	11.5
24	DS60A24	6.150	5.749	A	¾	2¾	1 15/16	1 31/64	4 29/32	0.459	12.0



TYPE A

Double Single - Taper Bushed — Steel

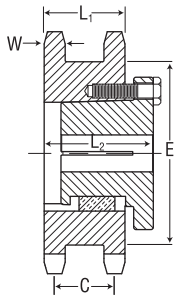
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	
16	DS60ATB16H	1615	4.220	3.844	½	1⅞	A	1 15/16	1 31/64	2 63/64	1½	0.459	4.5
17	DS60ATB17H	1615	4.460	4.002	½	1⅞	A	1 15/16	1 31/64	3 7/32	1½	0.459	4.5
18	DS60ATB18H	2012	4.700	4.319	½	2	A	1 15/16	1 31/64	3 15/32	1¼	0.459	5.0
19	DS60ATB19H	2012	4.950	4.557	½	2	A	1 15/16	1 31/64	3 45/64	1¼	0.459	5.8
20	DS60ATB20H	2517	5.190	4.794	½	2½	A	1 15/16	1 31/64	3 61/64	1¾	0.459	5.6
21	DS60ATB21H	2517	5.430	5.032	½	2½	A	1 15/16	1 31/64	4 3/16	1¾	0.459	6.4
23	DS60ATB23H	2517	5.910	5.508	½	2½	A	1 15/16	1 31/64	4 43/64	1¾	0.459	7.3
24	DS60ATB24H	2517	6.150	5.746	½	2½	A	1 15/16	1 31/64	4 29/32	1¾	0.459	8.2



TAPER BUSH
TYPE A

Double Single - MST® — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	
17	DS60P17H	P1	4.460	4.002	½	1¾	B	1 15/16	1 31/64	3 7/32	1 15/16	0.459	3.9
19	DS60P19H	P1	4.950	4.557	½	1¾	B	1 15/16	1 31/64	3 45/64	1 15/16	0.459	5.3
21	DS60Q21H	Q1	5.430	5.032	¾	2 11/16	B	1 15/16	1 31/64	4 3/16	2½	0.459	5.4
22	DS60Q22H	Q1	5.670	5.270	¾	2 11/16	B	1 15/16	1 31/64	4 27/64	2½	0.459	6.2
23	DS60Q23H	Q1	5.910	5.508	¾	2 11/16	B	1 15/16	1 31/64	4 43/64	2½	0.459	6.9
24	DS60Q24H	Q1	6.150	5.746	¾	2 11/16	B	1 15/16	1 31/64	4 29/32	2½	0.459	7.6



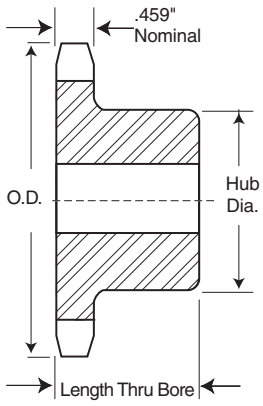
MST
TYPE B

Martin

Stainless Steel Stock Sprockets

No. 60 ¾" Pitch





STAINLESS STEEL

TYPE B

Single - Type B — Stainless

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Appl.)
8	60B8SS	2.261	B	5/8	5/8	1 15/32 ★	1¼	0.54	–	–	–	–
9	60B9SS	2.511	B	¾	⅞	1 9/16 ★	1¼	0.64	–	–	–	–
10	60B10SS	2.759	B	¾	1⅛	1 15/16 ★	1¼	0.99	–	–	–	–
11	60B11SS	3.005	B	¾	1 5/16	2 1/16 ★	1¼	1.16	–	–	–	–
12	60B12SS	3.249	B	¾	1⅜	2⅜ ★ ★	1¼	1.50	–	–	–	–
13	60B13SS	3.493	B	¾	1½	2 11/32	1¼	1.71	–	–	–	–
14	60B14SS	3.736	B	¾	1¾	2 7/16	1¼	2.05	A	60A13SS	¾	0.80
15	60B15SS	3.978	B	¾	1⅞	2⅞	1¼	2.51	A	60A14SS	¾	0.94
16	60B16SS	4.220	B	¾	2	3 1/16	1¼	2.88	A	60A15SS	¾	1.08
17	60B17SS	4.462	B	¾	2¼	3¼	1¼	3.27	A	60A16SS	¾	1.24
18	60B18SS	4.703	B	¾	2⅜	3½	1¼	3.77	A	60A17SS	¾	1.44
19	60B19SS	4.945	B	¾	2⅜	3½	1¼	3.98	A	60A18SS	¾	1.62
20	60B20SS	5.186	B	¾	2⅝	3⅞	1¼	4.69	A	60A20SS	¾	1.84
21	60B21SS	5.426	B	¾	2¾	4	1¼	5.10	A	60A21SS	¾	2.34
22	60B22SS	5.666	B	¾	2¾	4	1¼	5.34	A	60A22SS	¾	2.56
23	60B23SS	5.907	B	¾	2¾	4	1¼	5.59	A	60A23SS	¾	2.81
24	60B24SS	6.147	B	¾	2¾	4	1¼	5.59	A	60A24SS	23/32	3.08
25	60B25SS	6.387	B	¾	2¾	4	1¼	6.13	A	60A25SS	23/32	3.35
26	60B26SS	6.627	B	¾	2¾	4	1¼	6.42	A	60A26SS	23/32	3.67
28	60B28SS	7.106	B	¾	2¾	4	1¼	7.03	A	60A28SS	23/32	4.28
30	60B30SS	7.586	B	¾	2¾	4	1¼	7.69	A	60A30SS	23/32	4.94
32	60B32SS	8.065	B	¾	2¾	4	1¼	5.26	A	60A32SS	23/32	5.52
35	60B35SS	8.783	B	1	2¾	4	1¼	9.41	A	60A35SS	15/16	6.74
36	60B36SS	9.023	B	1	2¾	4	1¼	9.60	A	60A36SS	15/16	6.82
40	60B40SS	9.980	B	1	2¾	4¼	1¼	11.91	A	60A40SS	15/16	8.88
45	60B45SS	11.176	B	1	2¾	4¼	1¼	14.34	A	60A45SS	15/16	11.30
60	60B60SS	14.761	B	1¼	2¾	4¼	1¾	25.05	A	60A60SS	1¼	20.08

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

Alteration Charges

See current discount sheet for alteration charges.

No. 60 ¾" Pitch

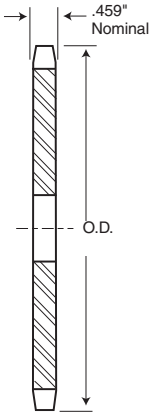
All Steel Stock Sprockets

Martin

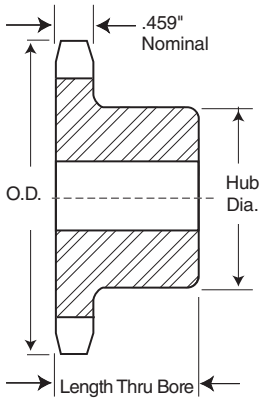
Single - Type B

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
8	60B8	2.260	B	5/8	5/8	1 15/32★	1¼	0.54	–	–	–	–
9	60B9	2.510	B	¾	⅞	1 9/16★	1¼	0.64	–	–	–	–
10	60B10	2.760	B	¾	1⅛	1 15/16★	1¼	0.99	A	60A10	¾	0.44
11	60B11	3.000	B	¾	1 5/16	2 1/16★	1¼	1.16	A	60A11	¾	0.54
12	60B12	3.250	B	¾	1⅜	2⅜★	1¼	1.47	A	60A12	¾	0.68
13	60B13	3.490	B	¾	1½	2 11/32	1¼	1.66	A	60A13	¾	0.80
14	60B14	3.740	B	¾	1¾	2 9/16	1¼	2.00	A	60A14	¾	0.94
15	60B15	3.980	B	¾	1⅞	2⅞	1¼	2.51	A	60A15	¾	1.08
16	60B16	4.220	B	¾	2	3 1/16	1¼	2.81	A	60A16	¾	1.24
17	60B17	4.460	B	¾	2¼	3¼	1¼	3.22	A	60A17	¾	1.44
18	60B18	4.700	B	¾	2⅜	3½	1¼	3.72	A	60A18	¾	1.62
19	60B19	4.950	B	¾	2⅝	3½	1¼	3.92	A	60A19	¾	1.84
20	60B20	5.190	B	¾	2⅝	3⅞	1¼	4.63	A	60A20	¾	2.12
21	60B21	5.430	B	¾	2¾	4	1¼	5.00	A	60A21	¾	2.28
22	60B22	5.670	B	¾	2¾	4	1¼	5.25	A	60A22	¾	2.48
23	60B23	5.910	B	¾	2¾	4	1¼	5.48	A	60A23	¾	2.68
24	60B24	6.150	B	¾	2¾	4	1¼	5.78	A	60A24	23/32	3.00
25	60B25	6.390	B	¾	2¾	4	1¼	6.13	A	60A25	23/32	3.34
26	60B26	6.630	B	¾	2¾	4	1¼	6.38	A	60A26	23/32	3.54
27	60B27	6.870	B	¾	2¾	4	1¼	6.72	A	60A27	23/32	3.96
28	60B28	7.110	B	¾	2¾	4	1¼	6.88	A	60A28	23/32	4.14
29	60B29	7.350	B	¾	2¾	4	1¼	7.28	A	60A29	23/32	4.40
30	60B30	7.590	B	¾	2¾	4	1¼	7.58	A	60A30	23/32	4.78
31	60B31	7.830	B	¾	2¾	4	1¼	7.72	A	60A31	23/32	5.24
32	60B32	8.070	B	¾	2¾	4	1¼	8.26	A	60A32	23/32	5.52
33	60B33	8.300	B	1	2¾	4	1¼	8.42	A	60A33	15/16	5.86
34	60B34	8.540	B	1	2¾	4	1¼	8.80	A	60A34	15/16	6.16
35	60B35	8.780	B	1	2¾	4	1¼	9.04	A	60A35	15/16	6.78
36	60B36	9.020	B	1	2¾	4	1¼	9.60	A	60A36	15/16	6.82
37	60B37	9.260	B	1	2¾	4	1¼	10.24	A	60A37	15/16	7.52
38	60B38	9.500	B	1	2¾	4¼	1¼	10.84	A	60A38	15/16	7.84
39	60B39	9.740	B	1	2¾	4¼	1¼	11.36	A	60A39	15/16	8.28
40	60B40	9.980	B	1	2¾	4¼	1¼	11.50	A	60A40	15/16	8.56
41	60B41	10.220	B	1	2¾	4¼	1¼	12.14	A	60A41	15/16	9.10
42	60B42	10.460	B	1	2¾	4¼	1¼	12.74	A	60A42	15/16	9.84
43	60B43	10.700	B	1	2¾	4¼	1¼	13.00	A	60A43	15/16	9.74
44	60B44	10.940	B	15/16	2¾	4¼	1¼	13.88	A	60A44	15/16	10.76
45	60B45	11.180	B	15/16	2¾	4¼	1¼	13.98	A	60A45	15/16	11.08
46	60B46	11.420	B	15/16	2¾	4¼	1¼	14.60	A	60A46	15/16	11.50
47	60B47	11.650	B	15/16	2¾	4¼	1¼	15.00	A	60A47	15/16	12.32
48	60B48	11.890	B	15/16	2¾	4¼	1¼	15.82	A	60A48	15/16	12.42
49	60B49	12.130	B	15/16	2¾	4¼	1¼	15.90	A	60A49	15/16	12.92
50	60B50	12.370	B	15/16	2¾	4¼	1¼	17.66	A	60A50	15/16	13.98
51	60B51	12.610	B	15/16	2¾	4¼	1¼	16.98	A	60A51	15/16	14.58
52	60B52	12.850	B	15/16	2¾	4¼	1¼	17.93	A	60A52	15/16	14.60
53	60B53	13.090	B	15/16	2¾	4¼	1¼	17.99	A	60A53	15/16	15.84
54	60B54	13.330	B	15/16	2¾	4¼	1¾	21.60	A	60A54	15/16	15.92
55	60B55	13.570	B	1¼	2¾	4¼	1¾	21.14	A	60A55	1¼	16.96
56	60B56	13.810	B	1¼	2¾	4¼	1¾	21.88	A	60A56	1¼	17.60
57	60B57	14.040	B	1¼	2¾	4¼	1¾	22.26	A	60A57	1¼	17.62
58	60B58	14.280	B	1¼	2¾	4¼	1¾	22.80	A	60A58	1¼	19.00
59	60B59	14.520	B	1¼	2¾	4¼	1¾	23.86	A	60A59	1¼	19.20
60	60B60	14.760	B	1¼	2¾	4¼	1¾	25.22	A	60A60	1¼	20.02
64	60B64	15.720	B	1¼	2¾	4¼	1¾	27.40	A	60A64	1¼	23.00
65	60B65	15.960	B	1¼	2¾	4¼	1¾	28.92	A	60A65	1¼	23.24
66	–	–	–	–	–	–	–	–	A	60A66	1¼	24.42
68	60B68	16.670	B	1¼	2¾	4¼	1¾	30.38	A	60A68	1¼	25.54
70	60B70	17.150	B	1¼	2¾	4¼	1¾	31.98	A	60A70	1¼	27.20
72	60B72	17.630	B	1¼	2¾	4¼	2	34.18	A	60A72	1¼	28.90
76	60B76	18.580	B	1¼	2¾	4¼	2	38.06	A	60A76	1¼	32.34
80	60B80	19.540	B	1¼	2¾	4¼	2	41.88	A	60A80	1¼	45.50
84	60B84	20.490	B	1¼	3¼	4¾	2	46.46	A	60A84	1¼	40.18
90	60B90	21.930	B	1¼	3 5/16	5	2¼	63.20	A	60A90	1¼	43.44
96	60B96	23.360	B	1¼	3¾	5½	2¼	63.08	A	60A96	1¼	52.02
112	60B112	27.180	B	1¼	3¾	5½	2¼	81.78	A	60A112	1¼	70.80



TYPE A



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

★ Has recessed groove in hub for chain clearance.

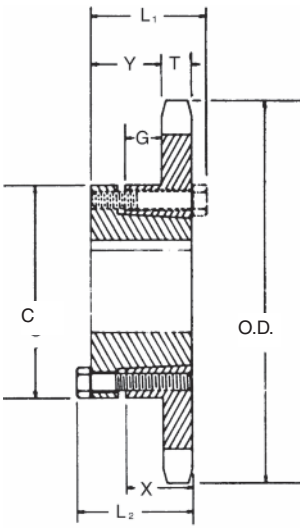
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

All Steel Stock Sprockets

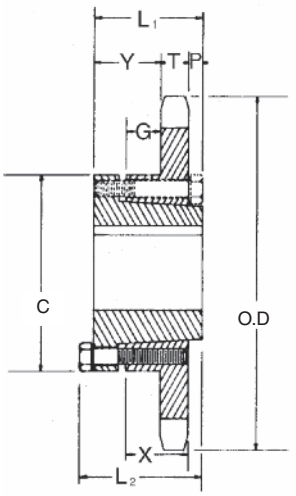
No. 60 ¾" Pitch

Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
11	60JA11H
12	60JA12H
13	60JA13H
14	60SH14H
15	60SH15H
16	60SH16H
17	60SDS17H
18	60SDS18H
19	60SDS19H
20	60SDS20H
21	60SDS21H
22	60SDS22H
23	60SDS23H
24	60SDS24H
25	60SDS25H
26	60SK26H
27	60SK27H
28	60SK28H
30	60SK30H



QD — TYPE B



QD — TYPE B_1

SABER TOOTH®



Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	G	X	T	With Hub	Rim Only
11	60JA11	JA	3.000	2.662	B	1¼	1⅛	1⅛	2 1/16	35/64	11/64	⅝	0.459	1.36	0.46
12	60JA12	JA	3.250	2.898	B	1¼	1⅛	1⅛	2 1/16	35/64	11/64	⅝	0.459	1.50	0.60
13	60JA13	JA	3.490	3.134	B	1¼	1⅛	1⅛	2 1/16	35/64	11/64	⅝	0.459	1.66	0.76
14	60SH14	SH	3.740	3.371	B	1⅝	1 7/16	1 7/16	2 11/16	51/64	23/64	13/16	0.459	1.88	0.88
15	60SH15	SH	3.980	3.607	B	1⅝	1 7/16	1 7/16	2 11/16	51/64	23/64	13/16	0.459	2.08	1.08
16	60SH16	SH	4.220	3.844	B	1⅝	1 7/16	1 7/16	2 11/16	51/64	23/64	13/16	0.459	2.26	1.26
17	60SDS17	SDS	4.460	4.082	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	2.38	1.38
18	60SDS18	SDS	4.700	4.319	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	2.56	1.56
19	60SDS19	SDS	4.950	4.557	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	2.76	1.76
20	60SDS20	SDS	5.190	4.794	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	3.00	2.00
21	60SDS21	SDS	5.430	5.032	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	3.20	2.20
22	60SDS22	SDS	5.670	5.270	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	3.44	2.44
23	60SDS23	SDS	5.910	5.508	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	3.70	2.70
24	60SDS24	SDS	6.150	5.746	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	3.94	2.94
25	60SDS25	SDS	6.390	5.984	B	2	1½	1½	3 3/16	55/64	19/64	¾	0.459	4.24	3.24
26	60SK26	SK	6.630	6.222	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	6.18	4.18
27	60SK27	SK	6.870	6.460	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	6.52	4.52
28	60SK28	SK	7.110	6.699	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	6.72	4.72
30	60SK30	SK	7.590	7.175	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	7.34	5.34
32	60SK32	SK	8.070	7.652	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	8.10	6.10
35	60SK35	SK	8.780	8.367	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	9.42	7.42
36	60SK36	SK	9.020	8.605	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	9.70	7.70
40	60SK40	SK	9.980	9.559	B	2⅝	2⅛	2⅛	3⅞	1 27/64	51/64	1¼	0.459	11.56	9.56
42	60SF42	SF	10.460	10.036	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	13.78	10.78
45	60SF45	SF	11.180	10.752	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	15.40	12.40
48	60SF48	SF	11.890	11.467	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	17.26	14.26
54	60SF54	SF	13.330	12.899	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	20.02	17.02
60	60SF60	SF	14.760	14.331	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	23.76	20.76
70	60SF70	SF	17.150	16.717	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	31.60	28.60
72	60SF72	SF	17.630	17.194	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	32.58	29.58
80	60SF80	SF	19.540	19.103	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	41.24	38.24
84	60SF84	SF	20.490	20.058	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	43.94	40.94
96	60SF96	SF	23.360	22.922	B	2 15/16	2¼	2¼	4⅝	1 35/64	51/64	1¼	0.459	55.40	52.40
112	60E112	E	27.180	26.742	B1	3½	2⅝	2 15/16	6	2 3/16	1 11/64	1⅝	0.459	83.76	73.76

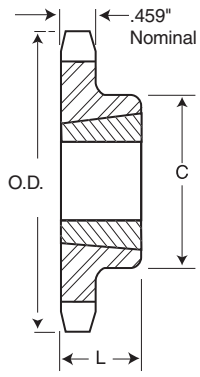
No. 60 Pitch ¾"

All Steel Stock Sprockets

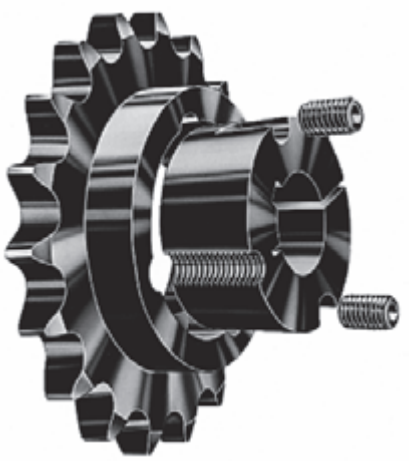
Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
11	60BTB11H
12	60BTB12H
13	60BTB13H
14	60BTB14H
15	60BTB15H
16	60BTB16H
17	60BTB17H
18	60BTB18H
19	60BTB19H
20	60BTB20H
21	60BTB21H
22	60BTB22H
23	60BTB23H
24	60BTB24H
25	60BTB25H
26	60BTB26H
27	60BTB27H
28	60BTB28H
30	60BTB30H

SABER TOOTH®



TAPER BUSH TYPE B



Single - Taper Bushed

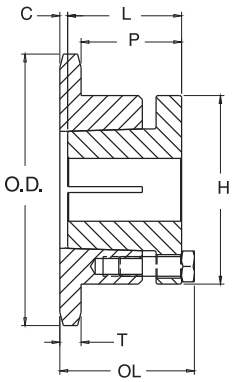
No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
11	60BTB11	1008	3.004	2.662	1	⅞	1 13/16	B	0.6	0.3
12	60BTB12	1008	3.249	2.898	1	⅞	1 15/16	B	0.8	0.3
13	60BTB13	1210	3.493	3.134	1¼	1	2 15/32★	B	0.8	0.6
14	60BTB14	1210	3.736	3.371	1¼	1	2 19/32	B	1.0	0.6
15	60BTB15	1610	3.979	3.607	1⅜	1	2 25/32	B	1.0	0.9
16	60BTB16	1610	4.221	3.844	1⅜	1	3	B	1.4	0.9
17	60BTB17	1610	4.462	4.082	1⅜	1	3¼	B	1.8	0.9
18	60BTB18	1610	4.704	4.319	1⅜	1	3½	B	1.9	0.9
19	60BTB19	1610	4.945	4.557	1⅜	1	3½	B	2.2	0.9
20	60BTB20	2012	5.185	4.794	2	1¼	3 15/16	B	2.2	1.7
21	60BTB21	2012	5.426	5.032	2	1¼	4	B	2.5	1.7
22	60BTB22	2012	5.666	5.270	2	1¼	4	B	2.8	1.7
23	60BTB23	2012	5.907	5.508	2	1¼	4	B	3.1	1.7
24	60BTB24	2012	6.147	5.746	2	1¼	4 3/16	B	3.4	1.7
25	60BTB25	2012	6.387	5.984	2	1¼	4 3/16	B	3.7	1.7
26	60BTB26	2012	6.627	6.222	2	1¼	4 3/16	B	4.0	1.7
27	60BTB27	2012	6.867	6.416	2	1¼	4 3/16	B	4.2	1.7
28	60BTB28	2012	7.107	6.699	2	1¼	4 3/16	B	4.6	1.7
30	60BTB30	2012	7.586	7.175	2	1¼	4 3/16	B	5.2	1.7
32	60BTB32	2012	8.065	7.652	2	1¼	4 3/16	B	5.6	1.7
35	60BTB35	2012	8.783	8.367	2	1¼	4 3/16	B	6.4	1.7
36	60BTB36	2012	9.022	8.605	2	1¼	4 3/16	B	6.6	1.7
40	60BTB40	2012	9.980	9.559	2	1¼	4 3/16	B	8.3	1.7
42	60BTB42	2012	10.458	10.036	2	1¼	4 3/16	B	10.0	1.7
45	60BTB45	2012	11.175	10.752	2	1¼	4 3/16	B	11.5	1.7
48	60BTB48	2012	11.893	11.467	2	1¼	4 3/16	B	13.2	1.7
54	60BTB54	2517	13.327	12.899	2½	1¾	4¼	B	17.1	3.5
60	60BTB60	2517	14.761	14.330	2½	1¾	4¼	B	21.0	3.5
70	60BTB70	2517	17.150	16.717	2½	1¾	4¼	B	27.6	3.5
72	60BTB72	2517	17.628	17.194	2½	1¾	4¼	B	30.0	3.5
80	60BTB80	2517	19.539	19.103	2½	1¾	4¼	B	36.3	3.5
84	60BTB84	2517	20.494	20.058	2½	1¾	4¼	B	40.6	3.5

★ Has recessed groove in hub for chain clearance.

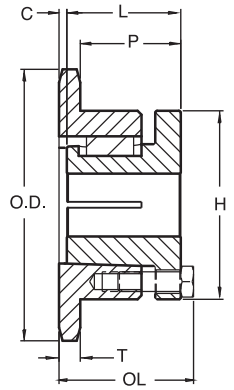
MST® Sprockets

No. 60 ¾" Pitch

Single - MST® Sprockets



TYPE 3



TYPE 4

No. Teeth	Catalog Number	Bushing	Diameters Outside Dia.	Diameters Pitch Dia.	Type	Max. Bore	Dimensions OL	L	C	H	P	T(nom)	Weight Lbs. (Approx.) With Hub	Weight Lbs. (Approx.) Rim Only
11	60H11H	H	3.000	2.662	3	1-1/2	1-13/16	1-1/4	3/8	2-1/2	1-5/32	0.459	1.5	0.7
12	60H12H	H	3.250	2.898	3	1-1/2	1-3/4	1-1/4	5/16	2-1/2	1-3/32	0.459	1.6	0.8
13	60H13H	H	3.490	3.134	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	1.6	0.8
13	60P13H	P1	3.490	3.134	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	2.5	1.2
14	60H14H	H	3.740	3.371	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	1.9	1.1
14	60P14H	P1	3.740	3.371	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	2.7	1.4
15	60H15H	H	3.980	3.607	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	2.2	1.4
15	60P15H	P1	3.980	3.607	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	3.0	1.7
16	60H16H	H	4.220	3.844	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	2.1	1.3
16	60P16H	P1	4.220	3.844	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	3.1	1.8
17	60H17H	H	4.460	4.082	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	2.3	1.5
17	60P17H	P1	4.460	4.082	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	3.4	2.1
18	60H18H	H	4.700	4.319	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	2.5	1.7
18	60P18H	P1	4.700	4.319	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	3.5	2.2
19	60H19H	H	4.950	4.557	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	2.7	1.9
19	60P19H	P1	4.950	4.557	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	3.8	2.5
20	60H20H	H	5.190	4.794	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	2.9	2.1
20	60P20H	P1	5.190	4.794	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	4.4	3.1
20	60Q20H	Q1	5.190	4.794	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	7.0	3.5
21	60P21H	P1	5.430	5.032	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	4.2	2.9
21	60Q21H	Q1	5.430	5.032	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	7.1	3.6
22	60H22H	H	5.670	5.270	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	3.4	2.6
22	60P22H	P1	5.670	5.270	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	4.5	3.2
22	60Q22H	Q1	5.670	5.270	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	7.5	4.0
23	60P23H	P1	5.910	5.508	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	4.8	3.5
23	60Q23H	Q1	5.910	5.508	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	7.6	4.1
24	60H24H	H	6.150	5.746	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	27/32	0.459	3.8	3.0
24	60P24H	P1	6.150	5.746	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	5.1	3.8
24	60Q24H	Q1	6.150	5.746	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	8.0	4.5
25	60P25H	P1	6.390	5.984	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	5.4	4.1
25	60Q25H	Q1	6.390	5.984	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	9.4	5.9
26	60P26H	P1	6.630	6.222	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	5.6	4.3
26	60Q26H	Q1	6.630	6.222	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	9.8	6.3
27	60P27H	P1	6.870	6.460	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	5.8	4.5
27	60Q27H	Q1	6.870	6.460	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	9.9	6.4
28	60P28H	P1	7.110	6.699	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	6.2	4.9
28	60Q28H	Q1	7.110	6.699	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	10.4	6.9
29	60Q29H	Q1	7.350	6.937	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	10.8	7.3
30	60P30H	P1	7.590	7.175	4	1-3/4	2-3/16	1-15/16	–	3	1-15/32	0.459	6.9	5.6
30	60Q30H	Q1	7.590	7.175	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	11.1	7.6
31	60Q31	Q1	7.830	7.413	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	11.3	7.8
32	60Q32	Q1	8.070	7.652	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	11.8	8.3
33	60Q33	Q1	8.300	7.890	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	12.2	8.7
34	60Q34	Q1	8.540	8.129	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	12.6	9.1
35	60Q35	Q1	8.780	8.367	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	12.8	9.3
36	60Q36	Q1	9.020	8.605	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	13.4	9.9
37	60Q37	Q1	9.260	8.844	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	13.8	10.3
38	60Q38	Q1	9.500	9.082	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	14.1	10.6
39	60Q39	Q1	9.740	9.321	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	14.6	11.1
40	60Q40	Q1	9.980	9.559	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	15.1	11.6
41	60Q41	Q1	10.220	9.798	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	15.4	11.9
42	60Q42	Q1	10.460	10.036	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	16.1	12.6
44	60Q44	Q1	10.940	10.513	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	16.9	13.4
45	60Q45	Q1	11.180	10.752	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	17.4	13.9
47	60Q47	Q1	11.650	11.229	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	19.8	16.3
48	60Q48	Q1	11.890	11.467	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	19.9	16.4
50	60Q50	Q1	12.370	11.945	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	20.4	16.9
54	60Q54	Q1	13.330	12.899	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	23.1	19.6
56	60Q56	Q1	13.810	13.376	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	23.8	20.3
60	60Q60	Q1	14.760	14.331	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	26.4	22.9
70	60Q70	Q1	17.150	16.717	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	34.4	30.9
70	60R70	R1	17.150	16.717	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-13/32	0.459	39.3	31.8
72	60Q72	Q1	17.630	17.194	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	35.4	31.9
72	60R72	R1	17.630	17.194	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-13/32	0.459	41.6	34.1
80	60Q80	Q1	19.540	19.103	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	42.6	39.1
80	60R80	R1	19.540	19.103	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-13/32	0.459	49.0	41.5
84	60Q84	Q1	20.490	20.058	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	45.1	41.6
84	60R84	R1	20.490	20.058	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-13/32	0.459	52.3	44.8
96	60Q96	Q1	23.360	22.922	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	57.5	54.0
96	60R96	R1	23.360	22.922	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-13/32	0.459	63.5	56.0
112	60Q112	Q1	27.180	26.742	4	2-11/16	2-25/32	2-1/2	–	4-1/8	2-1/32	0.459	76.5	73.0
112	60R112	R1	27.180	26.742	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-13/32	0.459	82.0	74.5

Sprockets with "H" suffix have hardened teeth.

No. 60-2
¾" Pitch

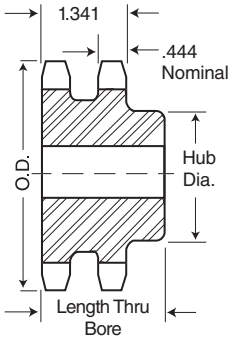
All Steel Stock Sprockets

Double - Type B & C

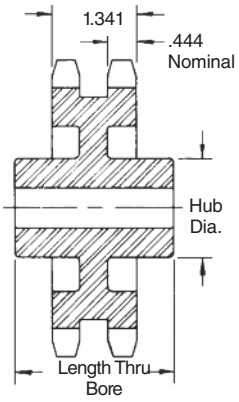
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	D60B11H	3.000	B	1	1¼	1 13/16	2⅛	1.62
12	D60B12H	3.250	B	1	1 7/16	2⅛	2⅛	2.20
13	D60B13H	3.490	B	1	1½	2¼	2⅛	2.60
14	D60B14H	3.740	B	1	1¾	2½	2⅛	3.24
15	D60B15H	3.980	B	1	1⅞	2 13/16	2⅛	3.96
16	D60B16H	4.220	B	1	2	3	2⅛	4.62
17	D60B17H	4.460	B	1	2¼	3¼	2⅛	5.40
18	D60B18H	4.700	B	1	2⅜	3½	2⅛	6.24
19	D60B19H	4.950	B	1	2½	3 11/16	2⅛	7.00
20	D60B20H	5.190	B	1	2½	3¾	2⅛	7.72
21	D60B21H	5.430	B	1	2¾	4⅛	2⅛	8.82
22	D60B22H	5.670	B	1	2¾	4¼	2⅛	9.68
23	D60B23H	5.910	B	1	2¾	4¼	2⅛	10.30
24	D60B24H	6.150	B	1	2¾	4¼	2⅛	11.14
25	D60B25H	6.390	B	1	2¾	4¼	2⅛	11.96
26	D60B26	6.630	B	1	2¾	4¼	2⅛	12.70
30	D60B30	7.590	B	1	2¾	4¼	2⅛	16.36
32	D60B32	8.070	B	1¼	3	4½	2⅜	19.52
35	D60B35	8.780	B	1¼	3	4½	2⅜	22.80
36	D60B36	9.020	B	1¼	3	4½	2⅜	23.82
40	D60B40	9.980	B	1¼	3¼	4¾	2¾	30.84
42	D60B42	10.460	B	1¼	3¼	4¾	2¾	33.08
45	D60B45	11.180	B	1¼	3¼	4¾	2¾	37.08
52	D60B52	12.850	B	1¼	3¼	4¾	2¾	48.70
60	D60B60	14.760	B	1¼	3¼	4¾	2¾	63.10
68	D60C68	16.670	C	1¼	3 5/16	5	3	53.68
72	D60C72	17.630	C	1¼	3 5/16	5	3	53.74
76	D60C76	18.580	C	1¼	3 5/16	5	3	60.28
95	D60C95	23.120	C	1¼	3¾	5½	3½	87.14

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

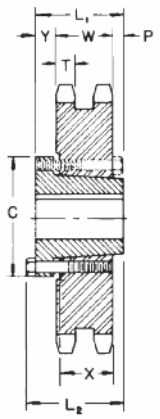
NOTE: Double 60 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.



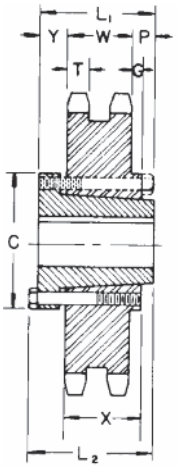
TYPE B



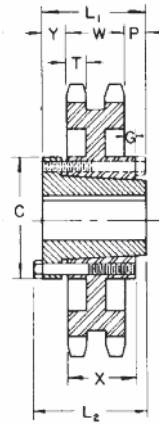
TYPE C



QD — TYPE C_1



QD — TYPE C_2



QD — TYPE C_4

Alteration Charges

See current discount sheet for alteration charges.

Double - Type QD

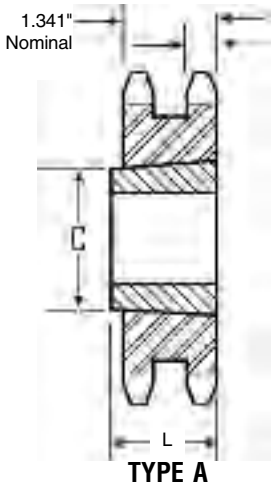
No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
14	D60SH14H	SH	3.740	3.371	B★★	1⅝	1 31/32	1 31/32	2 11/16	½	–	–	–	0.444	1.341	2.50	1.50
22	D60SDS22H	SDS	5.670	5.270	B★	2	1 17/32	1 15/32	3 3/16	–	–	–	¾	0.444	1.341	5.44	4.44
36	D60SF36	SF	9.020	8.605	C1	2 15/16	2	2¼	4⅝	¾	–	–	1¼	0.444	1.341	19.26	16.26
42	D60E42	E	10.460	10.036	C2	3½	2⅝	2 15/16	6	⅞	13/32	9/32	1⅝	0.444	1.341	34.04	24.04
45	D60E45	E	11.180	10.752	C2	3½	2⅝	2 15/16	6	⅞	13/32	9/32	1⅝	0.444	1.341	38.26	28.36
52	D60E52	E	12.850	12.422	C2	3½	2⅝	2 15/16	6	⅞	13/32	9/32	1⅝	0.444	1.341	49.52	39.52
60	D60E60	E	14.760	14.331	C2	3½	2⅝	2 15/16	6	⅞	13/32	9/32	1⅝	0.444	1.341	63.39	53.74
68	D60E68	E	16.670	16.240	C4	3½	2⅝	2 15/16	6	⅞	13/32	9/32	1⅝	0.444	1.341	54.32	44.32
76	D60E76	E	18.580	18.149	C4	3½	2⅝	2 15/16	6	⅞	13/32	9/32	1⅝	0.444	1.341	61.48	51.48
95	D60E95	E	23.120	22.683	C4	3½	2⅝	2 15/16	6	⅞	13/32	9/32	1⅝	0.444	1.341	82.96	72.96

★★ Not illustrated. Dimensions listed correspond approximately to illustrations shown.

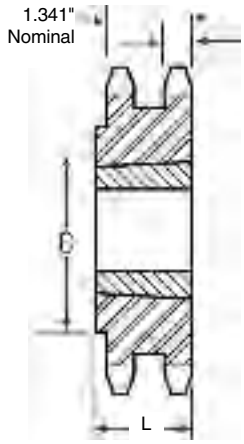
All Steel Stock Sprockets

No. 60-2 ¾" Pitch

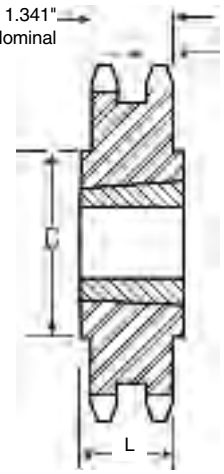




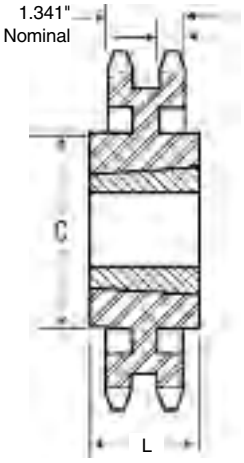
TYPE A



TYPE B



TYPE C_1



TYPE C

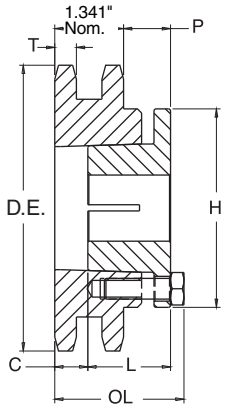
Double - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs.(Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
13	D60BTB13H	1215	3.493	3.134	1¼	1½	2¼	B	1.2	1.6
14	D60BTB14H	1215	3.736	3.371	1¼	1½	2½	B	1.6	1.7
15	D60BTB15H	1615	3.979	3.607	1⅝	1½	2 15/16	B	1.3	1.8
16	D60BTB16H	1615	4.221	3.844	1⅝	1½	3	B	2.2	2.3
17	D60BTB17H	1615	4.462	4.082	1⅝	1½	3¼	B	2.5	2.8
18	D60ATB18H	2012	4.704	4.319	2	1¼	–	A	3.0	2.4
19	D60ATB19H	2012	4.945	4.557	2	1¼	–	A	3.5	2.9
20	D60BTB20H	2517	5.185	4.794	2½	1¾	3 61/64	B	4.0	2.9
21	D60BTB21H	2517	5.426	5.032	2½	1¾	4 3/16	B	5.0	3.8
25	D60BTB25H	2517	6.387	4.984	2½	1¾	5 5/32	B	7.5	7.4
30	D60BTB30	2517	7.586	7.175	2½	1¾	6 11/32	B	13.5	13.3
36	D60CTB36	2517	9.022	8.605	2½	1¾	4¼	C 1	17.5	17.4
42	D60CTB42	2517	10.458	10.036	2½	1¾	4¼	C 1	25.5	25.0
45	D60CTB45	2517	11.176	10.752	2½	1¾	4¼	C 1	29.5	29.3
52	D60CTB52	2517	12.849	12.422	2½	1¾	4¼	C 1	41.0	40.3
60	D60CTB60	2517	14.761	14.330	2½	1¾	4¼	C	32.5	33.5
68	D60CTB68	2517	16.672	16.240	2½	1¾	4½	C	36.5	43.2
76	D60CTB76	3020	18.583	18.149	3	2	5¼	C	42.5	47.8
95	D60CTB95	3020	23.121	22.684	3	2	5¼	C	48.5	69.8

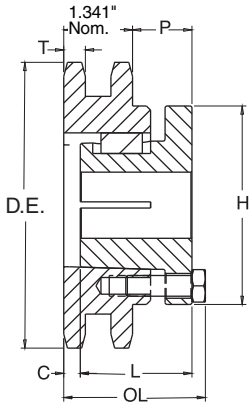
NOTE: Double 60 stock sprockets with 25 teeth or less have hardened teeth.

No. 60-2
¾" Pitch

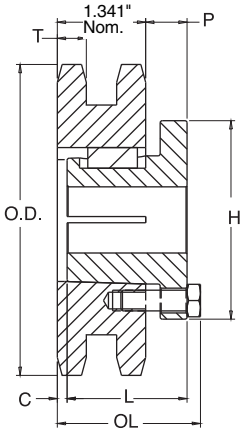
MST® Sprockets



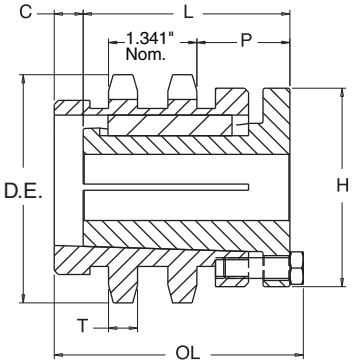
TYPE 11



TYPE 12



TYPE 13



TYPE 16

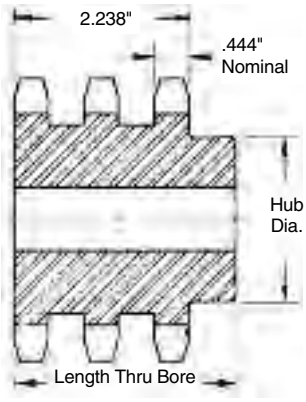
Double - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	D60P13H	P1	3.490	3.134	16	1-3/4	3-13/16	1-15/16	1 5/8	3	1-13/32	0.444	3.8	2.5
14	D60P14H	P1	3.740	3.371	12	1-3/4	3	1-15/16	13/16	3	1-13/32	0.444	3.6	2.3
15	D60P15H	P1	3.980	3.607	12	1-3/4	3	1-15/16	13/16	3	1-13/32	0.444	4.0	2.7
16	D60P16H	P1	4.220	3.844	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	3.7	2.4
17	D60P17H	P1	4.460	4.082	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	4.1	2.8
18	D60P18H	P1	4.700	4.319	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	4.7	3.4
19	D60P19H	P1	4.950	4.557	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	5.3	4.0
20	D60P20H	P1	5.190	4.794	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	6.0	4.7
21	D60Q21H	Q1	5.430	5.032	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	8.3	4.8
22	D60Q22H	Q1	5.670	5.270	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	9.1	5.6
23	D60Q23H	Q1	5.910	5.508	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	9.8	6.3
24	D60Q24H	Q1	6.150	5.746	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	10.5	7.0
25	D60Q25H	Q1	6.390	5.984	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	11.4	7.9
26	D60Q26H	Q1	6.630	6.222	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	12.3	8.8
27	D60Q27H	Q1	6.870	6.460	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	13.1	9.6
28	D60Q28H	Q1	7.110	6.699	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	14.0	10.5
30	D60Q30H	Q1	7.590	7.175	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	15.8	12.3
32	D60Q32H	Q1	8.070	7.652	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	17.8	14.3
35	D60Q35H	Q1	8.780	8.367	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	21.2	17.7
36	D60Q36H	Q1	9.020	8.605	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	21.9	18.4
40	D60Q40H	Q1	9.980	9.559	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	27.4	23.9
42	D60Q42	Q1	10.460	10.036	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	29.8	26.3
42	D60R42	R1	10.460	10.036	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	33.2	25.7
45	D60R45	R1	11.180	10.752	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	37.7	30.2
48	D60R48	R1	11.890	11.467	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	42.6	35.1
52	D60R52	R1	12.850	12.422	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	49.3	41.8
54	D60R54	R1	13.330	12.899	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	52.6	45.1
60	D60R60	R1	14.760	14.331	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	62.3	54.8
68	D60R68	R1	16.670	16.240	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	81.3	73.8
72	D60R72	R1	17.630	17.194	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	89.3	81.8
76	D60R76	R1	18.580	18.149	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	100.5	93.0
84	D60R84	R1	20.490	20.058	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	118.5	111.0
95	D60R95	R1	23.120	22.683	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	155.5	148.0
96	D60R96	R1	23.360	22.922	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	162.5	155.0

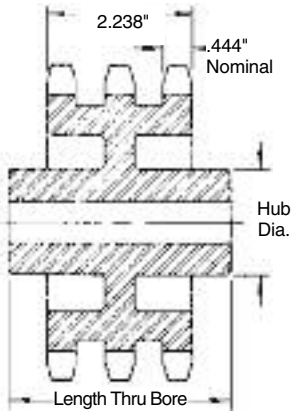
Sprockets with “H” suffix have hardened teeth.

All Steel Stock Sprockets

No. 60-3 ¾" Pitch



TYPE B



TYPE C

Triple - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	E60B11H	3.000	B	1	1¼	1 3⁄16	3	2.5
12	E60B12H	3.250	B	1	1 7⁄16	2⅛	3	3.3
13	E60B13H	3.490	B	1	1½	2¼	3	3.9
14	E60B14H	3.740	B	1	1¾	2½	3	4.5
15	E60B15H	3.980	B	1	1⅞	2 3⁄16	3	5.4
16	E60B16H	4.220	B	1	2	3	3	6.5
17	E60B17H	4.460	B	1	2¼	3¼	3	7.7
18	E60B18H	4.700	B	1	2⅜	3½	3	8.5
19	E60B19H	4.950	B	1	2½	3 1⁄16	3	10.0
20	E60B20H	5.190	B	1	2½	3¾	3	11.2
21	E60B21H	5.430	B	1	2¾	4⅛	3	12.5
22	E60B22H	5.670	B	1	2¾	4¼	3	13.2
23	E60B23H	5.910	B	1	2¾	4¼	3	14.6
24	E60B24H	6.150	B	1	2¾	4¼	3	15.8
25	E60B25H	6.390	B	1	2¾	4¼	3	17.0
26	E60B26	6.630	B	1	2¾	4¼	3	18.6
30	E60B30	7.590	B	1	2¾	4¼	3	23.2
35	E60B35	8.780	B	1¼	3	4½	3¼	34.5
36	E60B36	9.020	B	1¼	3	4½	3¼	37.0
42	E60B42	10.460	B	1¼	3¼	4¾	3⅝	49.0
45	E60B45	11.180	B	1¼	3¼	4¾	3⅝	57.0
52	E60C52	12.850	C	1¼	3¼	4¾	3½	73.0
60	E60C60	14.760	C	1¼	3¼	4¾	3½	63.0
68	E60C68	16.670	C	1¼	3¼	5	3½	73.0
72	E60C72	17.630	C	1¼	3¼	5	3½	85.0
76	E60C76	18.580	C	1½	3¾	5½	3½	82.0
95	E60C95	23.120	C	1½	3¾	5½	4	105.0

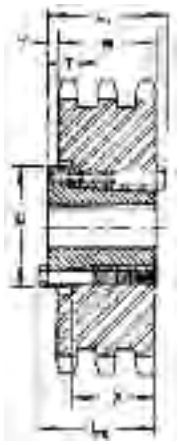
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 60 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

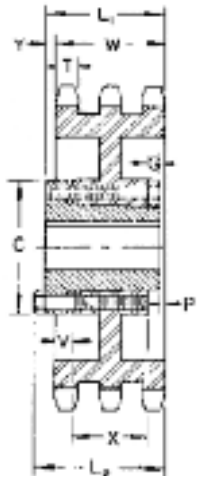


Alteration Charges

See current discount sheet for alteration charges.



QD — TYPE B



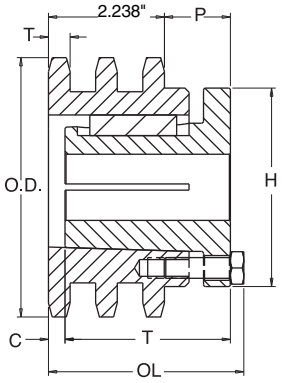
QD — TYPE B_1

Triple - Type QD

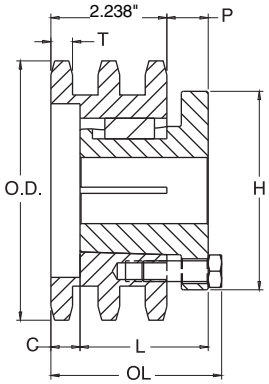
No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	V	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
36	E60E36	E	9.020	8.605	B	3½	2⅝	2 15⁄16	6	17⁄64	⅛	–	–	1⅝	0.444	2.238	49.0	37.0
42	E60E42	E	10.460	10.036	B	3½	2⅝	2 15⁄16	6	17⁄64	⅛	–	–	1⅝	0.444	2.238	62.0	50.0
52	E60E52	E	12.850	12.422	B	3½	2⅝	2 15⁄16	6	17⁄64	⅛	–	–	1⅝	0.444	2.238	80.0	68.0
68	E60E68	E	16.670	16.240	B1	3½	2 13⁄16	3 7⁄64	6	9⁄16	3⁄16	⅛	5⁄16	1⅝	0.444	2.238	83.0	71.0
76	E60E76	E	18.580	18.149	B1	3½	2 13⁄16	3 7⁄64	6	9⁄16	3⁄16	⅛	5⁄16	1⅝	0.444	2.238	99.0	87.0
95	E60E95	E	23.120	22.683	B1	3½	2 13⁄16	3 7⁄64	6	9⁄16	3⁄16	⅛	5⁄16	1⅝	0.444	2.238	129.0	117.0

No. 60-3
¾" Pitch

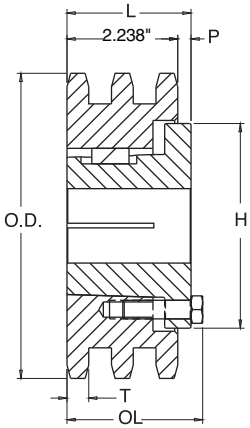
MST® Sprockets



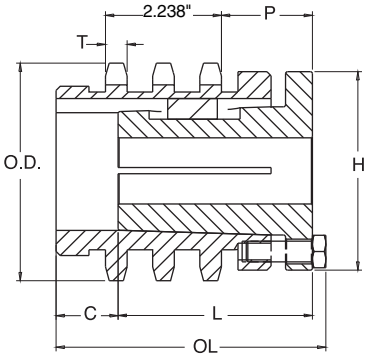
TYPE 22



TYPE 24



TYPE 25



TYPE 27

Triple - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	E60P13H	P2	3.490	3.134	27	1-3/4	4-23/32	2-15/16	1 17/32	3	1-13/32	0.444	4.8	3.3
14	E60P14H	P2	3.740	3.371	22	1-3/4	3-29/32	2-15/16	1-23/32	3	1-13/32	0.444	4.8	3.3
15	E60P15H	P2	3.980	3.607	22	1-3/4	3-29/32	2-15/16	1-23/32	3	1-13/32	0.444	5.5	4.0
16	E60P16H	P1	4.220	3.844	24	1-3/4	3 1/8	1-15/16	15/16	3	5/8	0.444	4.7	3.4
17	E60Q17H	Q1	4.460	4.082	27	2-11/16	5	3-1/2	13/32	4-1/8	1-21/32	0.444	8.1	4.6
18	E60Q18H	Q1	4.700	4.319	22	2-11/16	4-3/16	3-1/2	13/32	4-1/8	1-21/32	0.444	8.5	5.0
19	E60Q19H	Q1	4.950	4.557	22	2-11/16	4-3/16	3-1/2	13/32	4-1/8	1-21/32	0.444	9.4	5.9
20	E60Q20H	Q1	5.190	4.794	22	2-11/16	4-3/16	3-1/2	13/32	4-1/8	1-21/32	0.444	10.5	6.2
21	E60Q21H	Q1	5.430	5.032	24	2-11/16	3-1/4	2-1/2	15/32	4-1/8	3/4	0.444	9.2	6.4
22	E60Q22H	Q1	5.670	5.270	24	2-11/16	3-1/4	2-1/2	15/32	4-1/8	3/4	0.444	10.1	6.6
23	E60Q23H	Q1	5.910	5.508	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	11.2	7.7
24	E60Q24H	Q1	6.150	5.746	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	12.3	8.8
25	E60Q25H	Q1	6.390	5.984	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	13.5	10.0
26	E60Q26H	Q1	6.630	6.222	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	14.6	11.1
27	E60Q27H	Q1	6.870	6.460	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	15.9	12.4
28	E60Q28H	Q1	7.110	6.699	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	17.1	13.6
30	E60R30H	R1	7.590	7.175	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	21.5	14.0
32	E60R32H	R1	8.070	7.652	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	26.5	19.0
35	E60R35H	R1	8.780	8.367	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	29.5	22.0
36	E60R36H	R1	9.020	8.605	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	30.9	23.4
40	E60R40	R1	9.980	9.559	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	38.8	31.3
42	E60R42	R1	10.460	10.036	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	42.8	35.3
52	E60R52	R1	12.850	12.422	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	70.7	63.2

Sprockets with “H” suffix have hardened teeth.

All Steel Stock Sprockets

No. 80 1" Pitch

Single Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and Setscrews
9	80BS9	3.350	1⅝	1.6	1 — 1⅛ — 1³⁄₁₆ — 1¼
10	80BS10	3.680	1⅝	1.7	1 — 1⅛ — 1³⁄₁₆ — 1¼
10	80BS10W★	3.680	1⅝	1.7	1¼
11	80BS11	4.010	1⅝	1.8	1 — 1⅛ — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝
11	80BS11W★	4.010	1⅝	1.8	1¼
12	80BS12	4.330	1⅝	3.0	1 — 1⅛ — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾
12	80BS12W★	4.330	1⅝	3.0	1¼
13	80BS13	4.660	1½	3.5	1 — 1⅛ — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — 1⅞ — 1¹⁵⁄₁₆ 2
14	80BS14	4.980	1½	4.1	1 — 1⅛ — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — 1⅞ — 1¹⁵⁄₁₆ 2
15	80BS15	5.300	1½	5.2	1 — 1⅛ — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — 1⅞ — 1¹⁵⁄₁₆ 2
15	80BS15W★	5.300	1½	5.3	1¼
16	80BS16	5.630	1½	5.5	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆
17	80BS17	5.950	1½	6.0	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
18	80BS18	6.270	1½	6.5	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
18	80BS18W★	6.270	1½	6.0	1¼ 1½
19	80BS19	6.590	1½	7.0	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
20	80BS20	6.910	1½	8.0	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
21	80BS21	7.240	1¾	8.9	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
22	80BS22	7.560	1¾	9.5	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
23	80BS23	7.880	1¾	10.2	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
24	80BS24	8.200	1¾	10.8	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
25	80BS25	8.520	1¾	11.4	1 — — 1³⁄₁₆ — 1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆
26	80BS26	8.840	2	14.0	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
27	80BS27	9.160	2	14.7	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
28	80BS28	9.480	2	15.3	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
29	80BS29	9.800	2	16.4	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
30	80BS30	10.110	2	16.7	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
31	80BS31	10.430	2	18.0	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
32	80BS32	10.750	2	18.8	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
33	80BS33	11.070	2	18.9	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
34	80BS34	11.390	2	20.6	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
35	80BS35	11.710	2	21.4	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
36	80BS36	12.030	2	22.4	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
37	80BS37	12.350	2	23.9	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
38	80BS38	12.670	2	24.0	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
39	80BS39	12.990	2	24.9	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
40	80BS40	13.310	2	26.0	1¼ — 1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
41	80BS41	13.630	2	27.1	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
42	80BS42	13.940	2	28.0	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
43	80BS43	14.260	2	29.3	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
44	80BS44	14.580	2	29.3	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
45	80BS45	14.900	2	30.7	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
46	80BS46	15.220	2	32.4	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
47	80BS47	15.540	2	33.3	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
48	80BS48	15.860	2	34.8	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
49	80BS49	16.180	2	35.1	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
50	80BS50	16.500	2	36.6	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
51	80BS51	16.810	2	38.5	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
52	80BS52	17.130	2	40.3	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
53	80BS53	17.450	2	42.2	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
54	80BS54	17.770	2	44.0	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
55	80BS55	18.090	2	46.3	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
56	80BS56	18.410	2	47.3	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
57	80BS57	18.730	2	48.9	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
58	80BS58	19.040	2	50.6	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
59	80BS59	19.360	2	52.2	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆
60	80BS60	19.680	2	58.8	1⅜ — 1⁷⁄₁₆ — 1½ — 1⅝ — 1¾ — — 1¹⁵⁄₁₆ 2 — 2³⁄₁₆ — 2⁷⁄₁₆ — 2¹⁵⁄₁₆

Hub diameters vary to suit different bore sizes.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH

★ W = Winch Sprockets — KW ⁵⁄₁₆ × ⁵⁄₃₂ – One S.S. at 90°

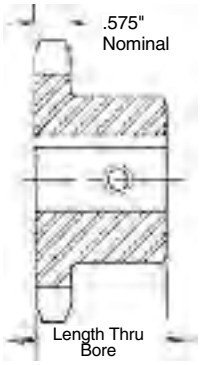
No. 80 1" Pitch

All Steel Stock Sprockets

Single Type BS Winch — 1 Setscrew

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway (see Footnote) and Set Screw at 90° from Keyway
10	80BS10W	3.680	1⅝	1.7	1¼
11	80BS11W	4.010	1⅝	1.8	1¼
12	80BS12W	4.330	1⅝	3.0	1¼
15	80BS15W	5.300	1½	5.2	1¼
18	80BS18W	6.270	1½	7.8	1¼ — 1½

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



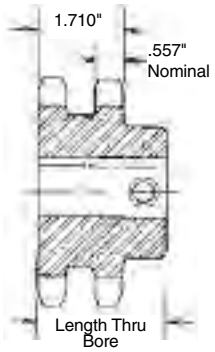
SINGLE TYPE BS

Double Type BS Winch (Hardened Teeth) — 1 Setscrew

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway (see Footnote) and Set Screw at 90° from Keyway
12	D80BS12HW	3.680	2½	5.2	1¼ — 1½ — 1¾
15	D80BS15HW	5.300	2½	9.2	1¼ — 1½ — 1¾
18	D80BS18HW	6.270	2¾	13.5	1½ — 1¾ — 2
20	D80BS20HW	6.910	2¾	16.2	1½ — 1¾ — 2
24	D80BS24HW	8.200	2¾	23.2	1½ 2

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Footnote: 1¼" bore has a 5/16 × 5/32" keyway
1½" bore has a 5/16 × 5/32" keyway
1¾" bore has a 3/8 × 3/16" keyway
2" bore has a 3/8 × 3/16" keyway



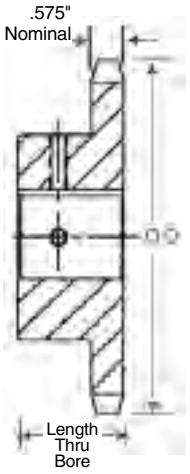
DOUBLE TYPE BS

SABER TOOTH®

No. 80 — Hardened Teeth — 2 Setscrews

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	80BS9HT	3.350	1⅝	1.6	1 – 1⅛ – 1 3/16 – 1¼
10	80BS10HT	3.368	1⅝	1.7	1 – 1⅛ – 1 3/16 – 1¼
11	80BS11HT	4.010	1⅝	1.8	1 – 1⅛ – 1 3/16 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝
12	80BS12HT	4.330	1⅝	3.0	1 – 1⅛ – 1 3/16 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝ – 1¾
13	80BS13HT	4.660	1½	3.5	1 – 1⅛ – 1 3/16 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝ – 1¾ – 1⅞ – 1 15/16 – 2
14	80BS14HT	4.980	1½	4.1	1 – 1⅛ – 1 3/16 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝ – 1¾ – 1⅞ – 1 15/16 – 2
15	80BS15HT	5.300	1½	5.2	1 – 1⅛ – 1 3/16 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝ – 1¾ – 1⅞ – 1 15/16 – 2
16	80BS16HT	5.630	1½	6.1	1 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝ – 1¾ – 1 15/16 – 2
17	80BS17HT	5.950	1½	7.0	1 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝ – 1¾ – 1 15/16 – 2 – 2 7/16
18	80BS18HT	6.270	1½	7.8	1 – 1¼ – 1⅜ – 1 7/16 – 1½ – 1⅝ – 1¾ – 1 15/16 – 2 – 2 7/16
19	80BS19HT	6.590	1½	8.3	– 1¼ – 1 7/16 – 1½ – 1⅝ – 1¾ – 1 15/16 – 2 – 2 7/16
20	80BS20HT	6.910	1½	9.5	– 1 7/16 – 1½ – 1⅝ – 1¾ – 1 15/16 – 2 – 2 7/16

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH



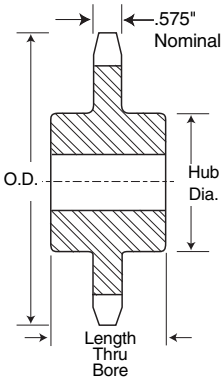
TYPE BS

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
11	80C11	4.010	1	1⅝	2 29/32 ★	2⅜	3.87
12	80C12	4.330	1	1⅞	3⅛ ★	2⅜	4.31
13	80C13	4.660	1	2	3 1/64	2⅜	5.32
14	80C14	4.980	1	2¼	3 11/32	2⅜	6.44
15	80C15	5.300	1	2½	3 13/16	2⅜	7.75
16	80C16	5.630	1	2¾	4	2⅜	8.81

★ Has recessed groove in hub for chain clearance.



TYPE C

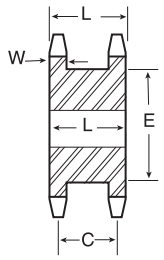
All Steel Stock Sprockets

No. 80 1" Pitch





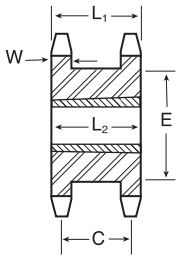




TYPE A

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
13	DS80A13	4.660	4.179	A	1	2	2 3/16	1 7/8	3 1/64	0.575	6.5
14	DS80A14	4.980	4.494	A	1	2 1/4	2 3/16	1 7/8	3 11/32	0.575	7.7
15	DS80A15	5.300	4.810	A	1	2 3/8	2 3/16	1 7/8	3 13/16	0.575	9.1
16	DS80A16	5.630	5.126	A	1	2 11/16	2 3/16	1 7/8	4	0.575	9.5
17	DS80A17	5.950	5.442	A	1	2 13/16	2 3/16	1 7/8	4 5/16	0.575	10.8
18	DS80A18	6.270	5.759	A	1	3 1/8	2 3/16	1 7/8	4 41/64	0.575	12.1
19	DS80A19	6.590	6.076	A	1	3 1/4	2 3/16	1 7/8	4 61/64	0.575	12.8
20	DS80A20	6.910	6.392	A	1	3 1/2	2 3/16	1 7/8	5 5/32	0.575	14.0
21	DS80A21	7.240	6.710	A	1	3 3/4	2 3/16	1 7/8	5 19/32	0.575	16.5
22	DS80A22	7.560	7.027	A	1	3 7/8	2 3/16	1 7/8	5 59/64	0.575	18.4
23	DS80A23	7.880	7.344	A	1	3 7/8	2 3/16	1 7/8	6 15/64	0.575	20.5

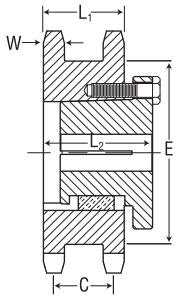


TAPER BUSH TYPE A

Double Single - Taper Bushed — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt.
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	Rim Only
17	DS80ATB17H	2517	5.950	5.442	1/2	2 1/2	A	2 3/16	1 7/8	4 5/16	1 3/4	0.575	7.6
18	DS80ATB18H	2517	6.270	5.759	1/2	2 1/2	A	2 3/16	1 7/8	4 41/64	1 3/4	0.575	8.7
19	DS80ATB19H	3020	6.590	6.076	15/16	3	A	2 3/16	1 7/8	4 61/64	2	0.575	9.7
20	DS80ATB20H	3020	6.910	6.392	15/16	3	A	2 3/16	1 7/8	5 5/32	2	0.575	10.0
21	DS80ATB21H	3020	7.240	6.710	15/16	3	A	2 3/16	1 7/8	5 19/32	2	0.575	12.0
22	DS80ATB22H	3020	7.560	7.027	15/16	3	A	2 3/16	1 7/8	5 59/64	2	0.575	13.0
23	DS80ATB23H	3020	7.880	7.344	15/16	3	A	2 3/16	1 7/8	6 15/64	2	0.575	14.5

Sprockets with “H” suffix have hardened teeth.



MST TYPE B

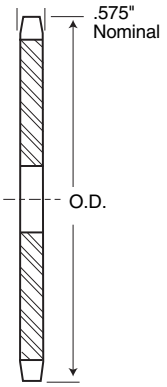
Double Single - MST® — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt.
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	Rim Only
17	DS80Q17H	Q1	5.950	5.442	3/4	2 11/16	B	2 3/16	1 7/8	4 5/16	3 15/64	0.575	7.2
19	DS80Q19H	Q1	6.590	6.076	3/4	2 11/16	B	2 3/16	1 7/8	4 61/64	3 15/64	0.575	10.5
20	DS80Q20H	Q1	6.910	6.392	3/4	2 11/16	B	2 3/16	1 7/8	5 5/32	3 15/64	0.575	12.2
21	DS80R21H	R1	7.240	6.710	1 1/8	3 3/4	B	2 3/16	1 7/8	5 19/32	3 23/64	0.575	12.8
23	DS80R23H	R1	7.880	7.344	1 1/8	3 3/4	B	2 3/16	1 7/8	6 15/64	3 23/64	0.575	13.3

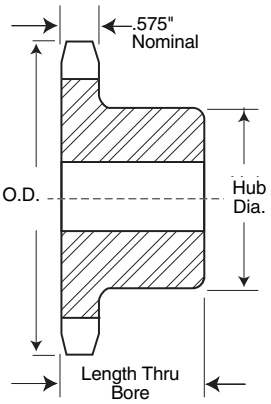
Sprockets with “H” suffix have hardened teeth.

No. 80
1" Pitch

Stainless Steel Stock Sprockets



TYPE A



TYPE B

Single - Type B

Single - Type A

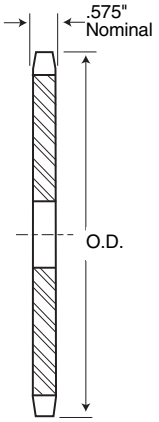
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
10	80B10SS	3.680	B	1	1½	2⁹⁄₁₆★	1⅝	2.14	–	–	–	–
11	80B11SS	4.010	B	1	1⅝	2¹³⁄₁₆★	1⅝	2.72	–	–	–	–
12	80B12SS	4.330	B	1	1⅞	3⅛ ★	1⅝	3.42	A	80A12SS	¹⁵⁄₁₆	1.50
13	80B13SS	4.660	B	1	2	3	1½	3.53	A	80A13SS	¹⁵⁄₁₆	1.80
14	80B14SS	4.980	B	1	2¼	3¼	1½	4.19	A	80A14SS	¹⁵⁄₁₆	2.20
15	80B15SS	5.300	B	1	2½	3¹³⁄₁₆	1½	5.38	A	80A15SS	¹⁵⁄₁₆	2.50
16	80B16SS	5.630	B	1	2¾	4	1½	6.07	A	80A16SS	¹⁵⁄₁₆	2.90
17	80B17SS	5.950	B	1	2¾	4	1½	6.45	A	80A17SS	¹⁵⁄₁₆	3.30
18	80B18SS	6.270	B	1	2¾	4¼	1½	7.34	A	80A18SS	¹⁵⁄₁₆	3.70
19	80B19SS	6.590	B	1	2¾	4¼	1½	7.80	A	80A19SS	¹⁵⁄₁₆	4.10
20	80B20SS	6.910	B	1	2¾	4¼	1½	8.22	A	80A20SS	¹⁵⁄₁₆	4.70
21	80B21SS	7.240	B	1	2¾	4¼	1¾	9.40	A	80A21SS	¹⁵⁄₁₆	5.10
22	80B22SS	7.560	B	1	2¾	4¼	1¾	10.00	A	80A22SS	¹⁵⁄₁₆	5.61
23	80B23SS	7.880	B	1	2¾	4¼	1¾	10.70	A	80A23SS	¹⁵⁄₁₆	6.10
24	80B24SS	8.200	B	1	2¾	4¼	1¾	11.36	A	80A24SS	¹⁵⁄₁₆	6.73
25	80B25SS	8.520	B	1	2¾	4¼	1¾	11.90	A	80A25SS	¹⁵⁄₁₆	7.26
26	80B26SS	8.840	B	1¼	3¼	4¾	2	14.57	A	80A26SS	1³⁄₁₆	6.73
30	80B30SS	10.110	B	1³⁄₁₆	3¼	4¾	2	17.50	A	80A30SS	1³⁄₁₆	10.53
35	80B35SS	11.710	B	1³⁄₁₆	3¼	4¾	2	21.48	A	80A35SS	1³⁄₁₆	13.07
40	80B40SS	13.310	B	1³⁄₁₆	3¼	4¾	2	26.00	A	80A40SS	1³⁄₁₆	19.22

★ Has recessed groove in hub for chain clearance.

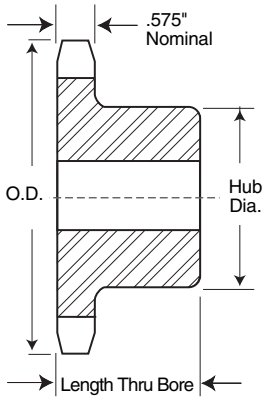
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

All Steel Stock Sprockets

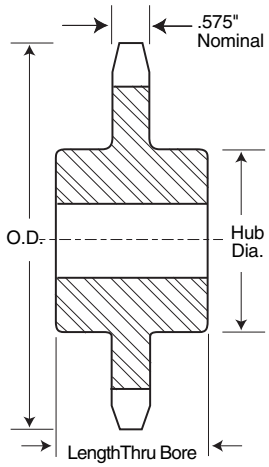
No. 80 1" Pitch



TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
8	80B8	3.010	B	1	1	1 15/16 ★	1⅝	1.4	–	–	–	–
9	80B9	3.350	B	1	1 5/16	2¼ ★	1⅝	1.6	A	80A9	15/16	.8
10	80B10	3.680	B	1	1½	2 9/16 ★	1⅝	2.2	A	80A10	15/16	1.0
11	80B11	4.010	B	1	1⅝	2 13/16 ★	1⅝	3.2	A	80A11	15/16	1.3
12	80B12	4.330	B	1	1⅞	3⅛ ★	1⅝	3.4	A	80A12	15/16	1.5
13	80B13	4.660	B	1	2	3	1½	3.5	A	80A13	15/16	1.8
14	80B14	4.980	B	1	2¼	3¼	1½	4.1	A	80A14	15/16	2.2
15	80B15	5.300	B	1	2½	3 13/16	1½	5.3	A	80A15	15/16	2.5
16	80B16	5.630	B	1	2¾	4	1½	5.9	A	80A16	15/16	2.9
17	80B17	5.950	B	1	2¾	4	1½	6.6	A	80A17	15/16	3.3
18	80B18	6.270	B	1	2¾	4¼	1½	7.3	A	80A18	15/16	3.7
19	80B19	6.590	B	1	2¾	4¼	1½	7.8	A	80A19	15/16	4.1
20	80B20	6.910	B	1	2¾	4¼	1½	8.4	A	80A20	15/16	4.7
21	80B21	7.240	B	1	2¾	4¼	1¾	9.4	A	80A21	15/16	4.9
22	80B22	7.560	B	1	2¾	4¼	1¾	10.0	A	80A22	15/16	5.5
23	80B23	7.880	B	1	2¾	4¼	1¾	10.7	A	80A23	15/16	6.3
24	80B24	8.200	B	1	2¾	4¼	1¾	11.3	A	80A24	15/16	6.7
25	80B25	8.520	B	1	2¾	4¼	1¾	11.9	A	80A25	15/16	7.2
26	80B26	8.840	B	1¼	3¼	4¾	2	14.3	A	80A26	1 3/16	7.8
27	80B27	9.160	B	1¼	3¼	4¾	2	15.4	A	80A27	1 3/16	8.6
28	80B28	9.480	B	1¼	3¼	4¾	2	16.0	A	80A28	1 3/16	9.3
29	80B29	9.800	B	1 3/16	3¼	4¾	2	17.1	A	80A29	1 3/16	9.8
30	80B30	10.110	B	1 3/16	3¼	4¾	2	17.4	A	80A30	1 3/16	10.7
31	80B31	10.430	B	1 3/16	3¼	4¾	2	18.7	A	80A31	1 3/16	11.3
32	80B32	10.750	B	1 3/16	3¼	4¾	2	19.5	A	80A32	1 3/16	12.1
33	80B33	11.070	B	1 3/16	3¼	4¾	2	19.6	A	80A33	1 3/16	13.6
34	80B34	11.390	B	1 3/16	3¼	4¾	2	21.3	A	80A34	1 3/16	14.3
35	80B35	11.710	B	1 3/16	3¼	4¾	2	22.1	A	80A35	1 3/16	14.8
36	80B36	12.030	B	1 3/16	3¼	4¾	2	23.1	A	80A36	1 3/16	16.1
37	80B37	12.350	B	1 3/16	3¼	4¾	2	23.8	A	80A37	1 3/16	16.8
38	80B38	12.670	B	1 3/16	3¼	4¾	2	24.7	A	80A38	1 3/16	17.2
39	80B39	12.990	B	1 3/16	3¼	4¾	2	25.6	A	80A39	1 3/16	17.9
40	80B40	13.310	B	1 3/16	3¼	4¾	2	26.7	A	80A40	1 3/16	18.9
41	80B41	13.630	B	1¼	3¼	4¾	2	27.8	A	80A41	1¼	21.0
42	80B42	13.940	B	1¼	3¼	4¾	2	28.7	A	80A42	1¼	21.8
43	80B43	14.260	B	1¼	3¼	4¾	2	29.4	A	80A43	1¼	23.6
44	80B44	14.580	B	1¼	3¼	4¾	2	29.9	A	80A44	1¼	24.3
45	80B45	14.900	B	1¼	3¼	4¾	2	31.4	A	80A45	1¼	25.2
46	80B46	15.220	B	1¼	3¼	4¾	2	33.1	A	80A46	1¼	26.6
47	80B47	15.540	B	1¼	3¼	4¾	2	34.0	A	80A47	1¼	26.4
48	80B48	15.860	B	1¼	3¼	4¾	2	35.5	A	80A48	1¼	27.8
49	80B49	16.180	B	1¼	3¼	4¾	2	35.8	A	80A49	1¼	28.9
50	80B50	16.500	B	1¼	3¼	4¾	2	37.3	A	80A50	1¼	30.9
51	80B51	16.810	B	1¼	3¼	4¾	2	38.6	A	80A51	1¼	32.2
52	80B52	17.130	B	1¼	3¼	4¾	2	39.4	A	80A52	1¼	33.0
53	80B53	17.450	B	1¼	3¼	4¾	2	41.3	A	80A53	1¼	34.9
54	80B54	17.770	B	1¼	3½	5¼	2	44.7	A	80A54	1¼	36.6
55	80B55	18.090	B	1¼	3½	5¼	2	45.6	A	80A55	1¼	37.5
56	80B56	18.410	B	1¼	3½	5¼	2	47.5	A	80A56	1¼	39.4
57	80B57	18.730	B	1¼	3½	5¼	2	48.5	A	80A57	1¼	40.4
58	80B58	19.040	B	1¼	3½	5¼	2	50.5	A	80A58	1¼	41.3
59	80B59	19.360	B	1¼	3½	5¼	2	52.1	A	80A59	1¼	42.9
60	80B60	19.680	B	1¼	3½	5¼	2	54.5	A	80A60	1¼	45.3
65	80B65	21.270	B	1¼	3½	5¼	2	61.8	A	80A65	1¼	52.2
70	80C70	22.870	C	1½	4¼	6¼	3½	75.7	A	80A70	1½	59.8
72	80C72	23.500	C	1½	4¼	6¼	3½	81.4	A	80A72	1½	65.7
76	80C76	24.780	C	1½	4¼	6¼	3½	87.8	A	80A76	1½	70.2
80	80C80	26.050	C	1½	4¼	6¼	3½	89.9	A	80A80	1½	79.6
84	80C84	27.330	C	1½	4¼	6¼	3½	99.2	A	80A84	1½	86.1
90	80C90	29.240	C	1½	4¼	6¼	3½	106.0	A	80A90	1½	101.0
96	80C96	31.150	C	1½	4¼	6¼	3½	117.0	A	80A96	1½	120.0
112	80C112	36.240	C	1½	4¼	6¼	3½	154.0	A	80A112	1½	165.0

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 80
1" Pitch

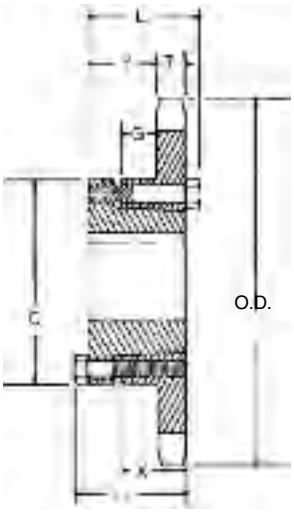
All Steel
Stock Sprockets

Single - Type QD With Hardened Teeth

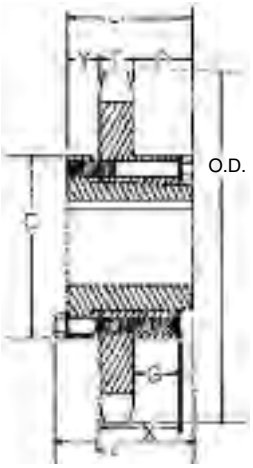
No. Teeth	Catalog Number
11	80SH11H
12	80SH12H
13	80SDS13H
14	80SDS14H
15	80SK15H
16	80SK16H
17	80SK17H
18	80SK18H
19	80SK19H
20	80SF20H
21	80SF21H
22	80SF22H
23	80SF23H
24	80SF24H
25	80SF25H
26	80SF26H
27	80SF27H
28	80SF28H
30	80SF30H

SABER TOOTH®





QD — TYPE B

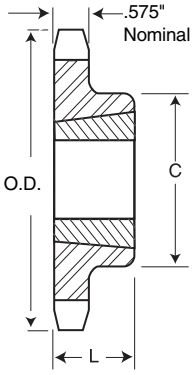


QD — TYPE C

Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	P	G	X	T	With Hub	Rim Only
11	80SH11	SH	4.010	3.550	B	1⅝	1 7/16	1 7/16	2 11/16	2/32	–	15/64	13/16	0.575	2.0	1.0
12	80SH12	SH	4.330	3.864	B	1⅝	1 7/16	1 7/16	2 11/16	2/32	–	15/64	13/16	0.575	2.4	1.4
13	80SDS13	SDS	4.660	4.179	B	2	1½	1½	3 3/16	47/64	–	11/64	¾	0.575	2.5	1.5
14	80SDS14	SDS	4.980	4.494	B	2	1½	1½	3 3/16	47/64	–	11/64	¾	0.575	2.8	1.8
15	80SK15	SK	5.300	4.810	B	2⅝	2⅛	2⅛	3⅞	1 19/64	–	2/32	1¼	0.575	4.5	2.5
16	80SK16	SK	5.630	5.126	B	2⅝	2⅛	2⅛	3⅞	1 19/64	–	2/32	1¼	0.575	5.1	3.1
17	80SK17	SK	5.950	5.442	B	2⅝	2⅛	2⅛	3⅞	1 19/64	–	2/32	1¼	0.575	5.5	3.5
18	80SK18	SK	6.270	5.759	B	2⅝	2⅛	2⅛	3⅞	1 19/64	–	2/32	1¼	0.575	5.9	3.9
19	80SK19	SK	6.590	6.076	B	2⅝	2⅛	2⅛	3⅞	1 19/64	–	2/32	1¼	0.575	6.4	4.4
20	80SF20	SF	6.910	6.392	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	8.3	5.3
21	80SF21	SF	7.240	6.710	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	8.7	5.7
22	80SF22	SF	7.560	7.027	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	9.3	6.3
23	80SF23	SF	7.880	7.344	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	9.8	6.8
24	80SF24	SF	8.200	7.661	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	10.5	7.5
25	80SF25	SF	8.520	7.979	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	11.0	8.0
26	80SF26	SF	8.840	8.296	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	11.6	8.6
27	80SF27	SF	9.160	8.614	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	12.4	9.4
28	80SF28	SF	9.480	8.931	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	13.2	10.2
30	80SF30	SF	10.110	9.567	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	14.3	11.3
32	80SF32	SF	10.750	10.202	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	16.0	13.0
33	80SF33	SF	11.070	10.520	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	16.5	13.5
34	80SF34	SF	11.390	10.838	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	17.1	14.1
35	80SF35	SF	11.710	11.156	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	18.5	15.5
36	80SF36	SF	12.030	11.474	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	19.9	16.9
40	80SF40	SF	13.310	12.746	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	23.6	20.6
42	80SF42	SF	13.940	13.382	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	25.4	22.4
45	80SF45	SF	14.900	14.336	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	28.1	25.1
48	80SF48	SF	15.860	15.290	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	31.6	28.6
54	80SF54	SF	17.770	17.198	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	39.8	36.8
60	80SF60	SF	19.680	19.107	B	2 15/16	2¼	2¼	4⅝	1 27/64	–	2/32	1¼	0.575	48.8	45.8
70	80E70	E	22.870	22.289	C	3½	2⅝	2 15/16	6	⅞	1 3/16	1 3/64	1⅝	0.575	65.6	55.6
72	80E72	E	23.500	22.926	C	3½	2⅝	2 15/16	6	⅞	1 3/16	1 3/64	1⅝	0.575	69.3	59.3
80	80E80	E	26.050	25.471	C	3½	2⅝	2 15/16	6	⅞	1 3/16	1 3/64	1⅝	0.575	79.2	69.2
84	80E84	E	27.330	26.744	C	3½	2⅝	2 15/16	6	⅞	1 3/16	1 3/64	1⅝	0.575	84.9	74.9
96	80E96	E	31.150	30.563	C	3½	2⅝	2 15/16	6	⅞	1 3/16	1 3/64	1⅝	0.575	108.0	97.5
112	80F112	F	36.240	35.655	C	3 15/16	3⅜	4	6⅝	1	2 1/16	1 59/64	2½	0.575	145.0	134.0

Single - Taper Bushed with Hardened Teeth



TYPE B



No. Teeth	Catalog Number
10	80BTB10H
11	80BTB11H
12	80BTB12H
13	80BTB13H
14	80BTB14H
15	80BTB15H
16	80BTB16H
17	80BTB17H
18	80BTB18H
19	80BTB19H
20	80BTB20H
21	80BTB21H
22	80BTB22H
23	80BTB23H
24	80BTB24H
25	80BTB25H
26	80BTB26H
27	80BTB27H
28	80BTB28H
30	80BTB30H

SABER TOOTH®

Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
10	80BTB10	1215	3.678	3.236	1¼	1½	2⅜ ★	B	1.1	0.8
11	80BTB11	1215	4.006	3.549	1¼	1½	2¹⁵⁄₃₂ ★	B	1.5	0.8
12	80BTB12	1615	4.332	3.864	1⅝	1½	3 ★	B	1.8	1.2
13	80BTB13	1615	4.657	4.179	1⅝	1½	3	B	2.3	1.2
14	80BTB14	1615	4.982	4.494	1⅝	1½	3¹¹⁄₃₂	B	2.5	1.2
15	80BTB15	1615	5.305	4.810	1⅝	1½	3½	B	2.7	1.2
16	80BTB16	2012	5.627	5.126	2	1¼	4	B	2.8	1.7
17	80BTB17	2012	5.950	5.442	2	1¼	4	B	3.1	1.7
18	80BTB18	2012	6.271	5.759	2	1¼	3⅜₁₆	B	2.6	1.7
19	80BTB19	2012	6.593	6.076	2	1¼	3⅜₁₆	B	4.1	1.7
20	80BTB20	2517	6.914	6.392	2½	1¾	4¼	B	5.5	1.7
21	80BTB21	2517	7.235	6.710	2½	1¾	4¼	B	6.0	3.5
22	80BTB22	2517	7.555	7.027	2½	1¾	4¼	B	6.5	3.5
23	80BTB23	2517	7.875	7.344	2½	1¾	4¼	B	7.0	3.5
24	80BTB24	2517	8.196	7.661	2½	1¾	4¼	B	7.5	3.5
25	80BTB25	2517	8.516	7.979	2½	1¾	4¼	B	8.1	3.5
26	80BTB26	2517	8.836	8.296	2½	1¾	4¼	B	8.8	3.5
27	80BTB27	2517	9.156	8.614	2½	1¾	4¼	B	9.0	3.5
28	80BTB28	2517	9.475	8.931	2½	1¾	4¼	B	9.5	3.5
30	80BTB30	2517	10.114	9.567	2½	1¾	4¼	B	11.5	3.5
32	80BTB32	2517	10.753	10.202	2½	1¾	4¼	B	12.0	3.5
35	80BTB35	2517	11.711	11.156	2½	1¾	4¼	B	15.2	3.5
36	80BTB36	2517	12.030	11.474	2½	1¾	4¼	B	17.0	3.5
40	80BTB40	2517	13.306	12.746	2½	1¾	4¼	B	21.0	3.5
45	80BTB45	2517	14.901	14.336	2½	1¾	4¼	B	26.5	3.5
48	80BTB48	2517	15.857	15.290	2½	1¾	4¼	B	29.5	3.5
54	80BTB54	2517	17.769	17.198	2½	1¾	4¼	B	38.5	3.5
60	80BTB60	2517	19.681	19.107	2½	1¾	4¼	B	45.0	3.5
70	80BTB70	3020	22.867	22.289	3	2	5¼	B	52.3	6.5
80	80BTB80	3020	26.052	25.471	3	2	5¼	B	69.2	6.5

★ Has recessed groove in hub for chain clearance.

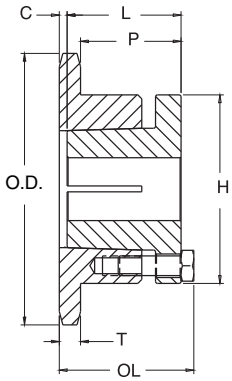
No. 80
1" Pitch

MST® Sprockets

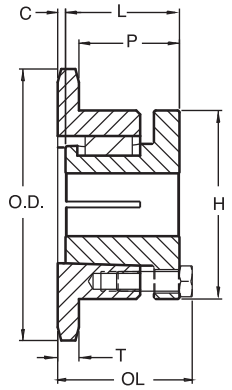
Single - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
10	80H10H	H	3.680	3.236	3	1-1/2	2-3/32	1-1/4	21/32	2-1/2	1-21/64	0.575	2.8	2.0
11	80H11H	H	4.010	3.550	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	3/4	0.575	2.1	1.3
11	80P11H	P	4.010	3.550	4	1-3/4	2-11/32	1-15/16	5/32	3	1-17/32	0.575	2.4	1.6
12	80P12H	P1	4.330	3.864	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	3.3	2.0
13	80P13H	P1	4.660	4.179	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	3.7	2.4
14	80P14H	P1	4.980	4.494	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	3.9	2.6
14	80Q14H	Q1	4.980	4.494	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	6.4	2.9
15	80P15H	P1	5.300	4.810	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	4.3	3.0
15	80Q15H	Q1	5.300	4.810	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	6.9	3.4
16	80P16H	P1	5.630	5.126	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	4.8	3.5
16	80Q16H	Q1	5.630	5.126	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	8.1	4.6
17	80P17H	P1	5.950	5.442	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	5.1	3.8
17	80Q17H	Q1	5.950	5.442	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	8.8	5.3
18	80P18H	P1	6.270	5.759	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	5.7	4.4
18	80Q18H	Q1	6.270	5.759	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	9.5	6.0
19	80P19H	P1	6.590	6.076	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	6.2	4.9
19	80Q19H	Q1	6.590	6.076	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	10.0	6.5
20	80Q20H	Q1	6.910	6.392	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	10.5	7.0
21	80Q21H	Q1	7.240	6.710	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	10.8	7.3
22	80Q22H	Q1	7.560	7.027	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	11.7	8.2
23	80Q23H	Q1	7.880	7.344	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	12.3	8.8
24	80Q24H	Q1	8.200	7.661	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	12.6	9.1
25	80Q25H	Q1	8.520	7.979	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	13.1	9.6
26	80Q26H	Q1	8.840	8.296	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	14.1	10.6
27	80Q27H	Q1	9.160	8.614	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	14.4	10.9
28	80Q28H	Q1	9.480	8.931	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	15.9	12.4
29	80Q29H	Q1	9.800	9.249	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	16.1	12.6
30	80Q30H	Q1	10.110	9.567	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	16.9	13.4
31	80Q31	Q1	10.430	9.885	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	17.4	13.9
32	80Q32	Q1	10.750	10.202	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	18.3	14.8
33	80Q33	Q1	11.070	10.520	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	19.0	15.5
34	80Q34	Q1	11.390	10.838	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	19.8	16.3
35	80Q35	Q1	11.710	11.156	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	21.3	17.8
36	80Q36	Q1	12.030	11.474	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	21.6	18.1
36	80R36	R1	12.030	11.474	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	27.0	19.5
37	80Q37	Q1	12.350	11.792	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	22.0	18.5
38	80Q38	Q1	12.670	12.110	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	23.5	20.0
39	80R39	R1	12.990	12.428	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	30.3	22.8
40	80Q40	Q1	13.310	12.746	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	25.4	21.9
40	80R40	R1	13.310	12.746	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	30.9	23.4
41	80R41	R1	13.630	13.064	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	31.4	23.9
42	80Q42	Q1	13.940	13.382	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	27.3	23.8
42	80R42	R1	13.940	13.382	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	32.9	25.4
44	80R44	R1	14.580	14.018	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	34.7	27.2
45	80Q45	Q1	14.900	14.336	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	31.3	27.8
45	80R45	R1	14.900	14.336	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	36.0	28.5
47	80R47	R1	15.540	14.972	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	38.5	31.0
48	80Q48	Q1	15.860	15.290	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	34.3	30.8
48	80R48	R1	15.860	15.290	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	39.8	32.3
50	80R50	R1	16.500	15.926	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	42.6	35.1
54	80Q54	Q1	17.770	17.198	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	42.0	38.5
54	80R54	R1	17.770	17.198	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	48.3	40.8
56	80R56	R1	18.410	17.835	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	51.5	44.0
60	80Q60	Q1	19.680	19.107	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	50.3	46.8
60	80R60	R1	19.680	19.107	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	54.8	47.3
70	80Q70	Q1	22.870	22.289	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-5/16	0.575	63.5	60.0
70	80R70	R1	22.870	22.289	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	71.0	63.5
72	80Q72	Q1	23.500	22.926	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-5/16	0.575	71.0	67.5
72	80R72	R1	23.500	22.926	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	76.9	69.4
80	80R80	R1	26.050	25.471	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	92.5	85.0
84	80R84	R1	27.330	26.744	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	97.5	90.0
96	80R96	R1	31.150	30.563	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	117.5	110.0
112	80S112	S1	36.240	36.655	5	4-1/4	4-3/4	4-3/8	2-3/4	6-3/8	1-1/8	0.575	178.5	165.0

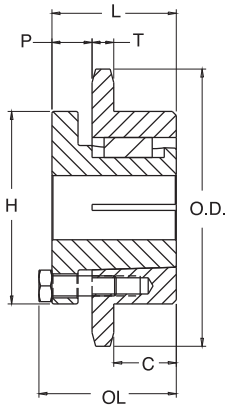
Sprockets with “H” suffix have hardened teeth.



TYPE 3



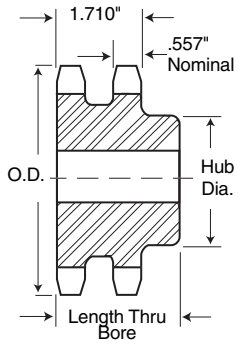
TYPE 4



TYPE 5

All Steel Stock Sprockets

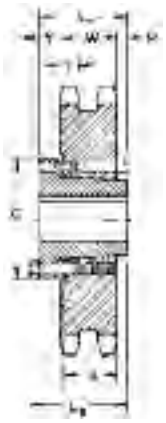
No. 80-2 1" Pitch



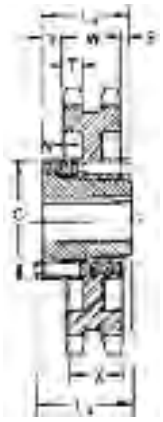
TYPE B



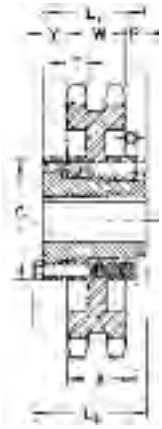
TYPE C



QD — TYPE C_1



QD — TYPE C_3



QD — TYPE C_4

Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
10	D80B10H	3.680	B	1	1½	2⁹⁄₁₆ ★	2¾	3.6
11	D80B11H	4.010	B	1	1¾	2½	2½	4.0
12	D80B12H	4.330	B	1	1⅞	2²⁷⁄₃₂	2½	5.1
13	D80B13H	4.660	B	1	2¼	3⅝₃₂	2½	6.3
14	D80B14H	4.980	B	1	2⅜	3¹⁵⁄₃₂	2½	7.6
15	D80B15H	5.300	B	1	2½	3⁵⁄₆₄	2½	9.0
16	D80B16H	5.630	B	1	2¾	4	2¾	11.0
17	D80B17H	5.950	B	1	3	4²⁷⁄₆₄	2¾	13.2
18	D80B18H	6.270	B	1	3¼	4⁴⁷⁄₆₄	2¾	15.0
19	D80B19H	6.590	B	1	3⁵⁄₁₆	5	2¾	17.0
20	D80B20H	6.910	B	1	3⁵⁄₁₆	5	2¾	18.2
21	D80B21H	7.240	B	1	3⁵⁄₁₆	5	2¾	19.6
22	D80B22H	7.560	B	1	3⁵⁄₁₆	5	2¾	21.0
23	D80B23H	7.880	B	1	3⁵⁄₁₆	5	2¾	22.8
24	D80B24H	8.200	B	1	3½	5¼	2¾	25.1
25	D80B25H	8.520	B	1	3½	5¼	3	28.3
26	D80B26	8.840	B	1	3½	5¼	3	29.9
30	D80B30	10.110	B	1¼	3¾	5¾	3	39.5
32	D80B32	10.750	B	1¼	3¾	5¾	3	43.8
35	D80B35	11.710	B	1¼	3¾	5¾	3	49.1
36	D80B36	12.030	B	1¼	3¾	5¾	3⅛	54.2
42	D80B42	13.940	B	1¼	3¾	5¾	3⅛	71.5
45	D80B45	14.900	B	1¼	3¾	5¾	3⅛	73.5
52	D80C52	17.130	C	1½	3¾	5¾	3¾	78.4
60	D80C60	19.680	C	1½	3¾	5¾	3¾	93.3
68	D80C68	22.230	C	1½	3¹³⁄₁₆	6	4	96.2
76	D80C76	24.780	C	1½	3¹³⁄₁₆	6	4	113.0
95	D80C95	30.830	C	1½	4	6	4¼	165.0

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Double 80 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

Alteration Charges

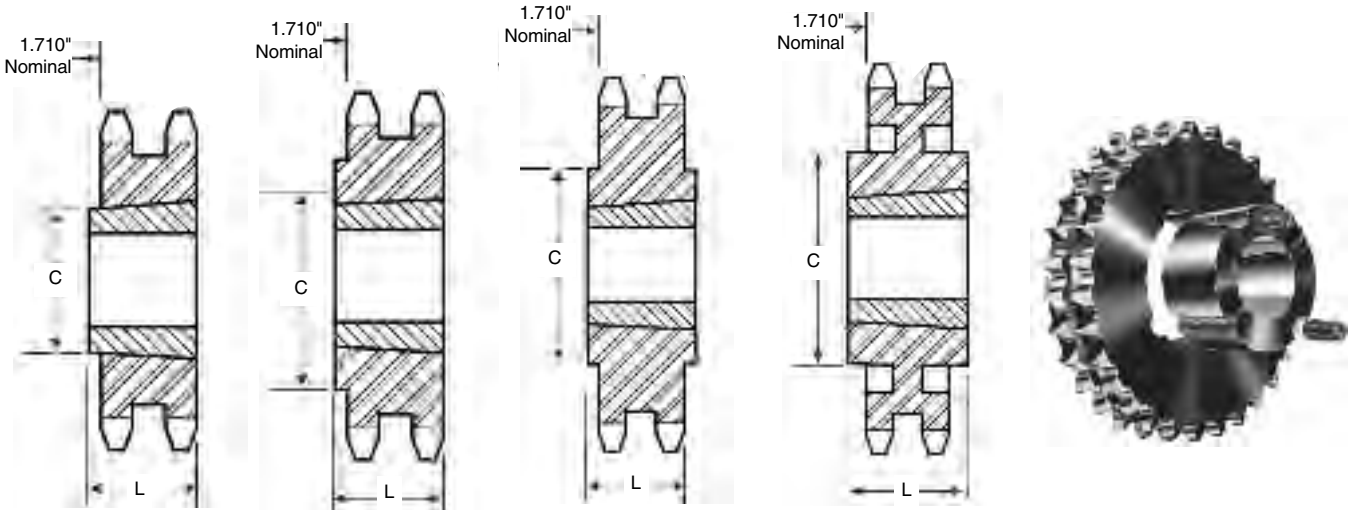
See current discount sheet for alteration charges.

Double - Type QD

No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	V	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
36	D80E36	E	12.030	11.474	C1	3½	2⅝	2¹⁵⁄₁₆	6	⁵¹⁄₆₄	⅛	–	–	1⅝	0.557	1.710	48.3	38.2
42	D80E42	E	13.940	13.382	C1	3½	2⅝	2¹⁵⁄₁₆	6	⁵¹⁄₆₄	⅛	–	–	1⅝	0.557	1.710	65.3	55.3
45	D80E45	E	14.900	14.336	C1	3½	2⅝	2¹⁵⁄₁₆	6	⁵¹⁄₆₄	⅛	–	–	1⅝	0.557	1.710	74.6	64.6
52	D80E52	E	17.130	16.562	C3	3½	2⅝	2¹⁵⁄₁₆	6	⁵¹⁄₆₄	⅛	–	³⁄₃₂	1⅝	0.557	1.710	68.2	58.2
60	D80E60	E	19.680	19.107	C3	3½	2⅝	2¹⁵⁄₁₆	6	⁵¹⁄₆₄	⅛	–	³⁄₃₂	1⅝	0.557	1.710	78.2	68.2
68	D80E68	E	22.230	21.653	C3	3½	2⅝	2¹⁵⁄₁₆	6	⁵¹⁄₆₄	⅛	–	³⁄₃₂	1⅝	0.557	1.710	84.2	74.2
76	D80E76	E	24.780	24.198	C3	3½	2⅝	2¹⁵⁄₁₆	6	⁵¹⁄₆₄	⅛	–	³⁄₃₂	1⅝	0.557	1.710	100.0	90.1
95	D80F95	F	30.830	30.245	C4	3¹⁵⁄₁₆	3⅝	4	6⅝	1	⁵⁹⁄₆₄	⁵¹⁄₆₄	–	2½	0.557	1.710	152.0	140.0

No. 80-2
1" Pitch

All Steel Stock Sprockets



TYPE A **TYPE B** **TYPE C** **TYPE C_1**

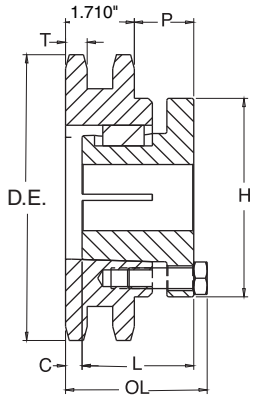
Double - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
13	D80ATB13H	1615	4.657	4.179	1⅝	1½	–	A	3.4	1.2
14	D80ATB14H	2012	4.982	4.494	2	1¼	–	A	3.5	1.7
15	D80ATB15H	2012	5.305	4.810	2	1¼	–	A	4.3	1.7
16	D80ATB16H	2517	5.627	5.126	2½	1¾	3⅛	A	3.8	3.5
17	D80ATB17H	2517	5.950	5.442	2½	1¾	3⅛	A	5.1	3.5
18	D80ATB18H	2517	6.271	5.759	2½	1¾	3⅛	A	6.4	3.5
19	D80BTB19H	3020	6.593	6.076	3	2	5	B	5.6	6.5
20	D80BTB20H	3020	6.914	6.392	3	2	5¼	B	7.1	6.5
21	D80BTB21H	3020	7.235	6.710	3	2	5⁹⁄₁₆	B	8.9	6.5
25	D80BTB25H	3020	8.516	7.979	3	2	6⅛	B	16.5	6.5
30	D80CTB30	3020	10.114	9.567	3	2	5¼	C	25.1	6.5
36	D80CTB36	3020	12.030	11.474	3	2	5¼	C	39.4	6.5
42	D80CTB42	3020	13.944	13.392	3	2	5¼	C	36.4	6.5
45	D80CTB45	3020	14.901	14.336	3	2	5¼	C1	41.4	6.5
52	D80CTB52	3020	17.132	16.562	3	2	5¼	C1	56.2	6.5
60	D80CTB60	3020	19.681	19.107	3	2	5¼	C1	66.3	6.5
68	D80CTB68	3020	22.230	21.653	3	2	5¼	C1	72.0	6.5
76	D80CTB76	3020	24.778	24.198	3	2	5¼	C1	89.1	6.5
95	D80CTB95	3020	30.828	30.245	3	2	5¼	C1	112.0	6.5

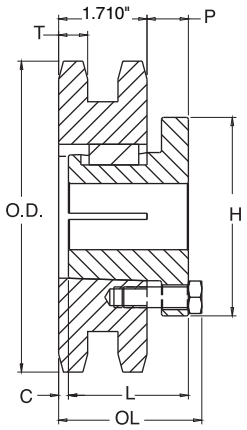
NOTE: Double 80 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

MST® Sprockets

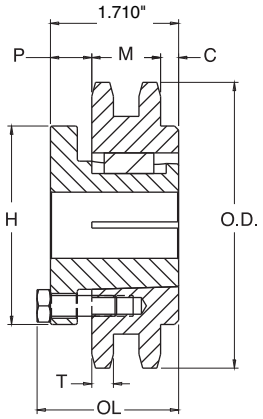
No. 80-2 1" Pitch



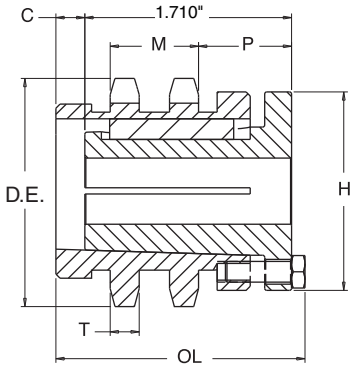
TYPE 12



TYPE 13



TYPE 15



TYPE 16

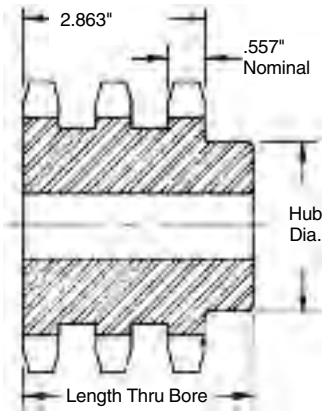
Double - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	D80P13H	P1	4.660	4.179	13	1-3/4	2-19/32	1-15/16	13/32	3	5/8	0.557	4.9	3.6
14	D80Q14H	Q2	4.980	4.494	16	2-5/8	4 5/8	3-1/2	27/32	4-1/8	1-3/4	0.557	9.9	5.4
15	D80Q15H	Q2	5.300	4.810	12	2-5/8	3-25/32	3-1/2	0	4-1/8	13/4	0.557	9.9	5.4
16	D80Q16H	Q1	5.630	5.126	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	8.3	4.8
17	D80Q17H	Q1	5.950	5.442	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	9.5	6.0
18	D80Q18H	Q1	6.270	5.759	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	10.8	7.3
19	D80Q19H	Q1	6.590	6.076	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	12.0	8.5
20	D80R20H	R1	6.910	6.392	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	15.3	7.8
21	D80R21H	R1	7.240	6.710	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	16.9	9.4
22	D80R22H	R1	7.560	7.027	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	18.3	10.8
23	D80R23H	R1	7.880	7.344	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	19.8	12.3
24	D80R24H	R1	8.200	7.661	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	21.6	14.1
25	D80R25H	R1	8.520	7.979	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	23.3	15.8
26	D80R26	R1	8.840	8.296	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	25.6	18.1
27	D80R27	R1	9.160	8.614	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	27.9	20.4
28	D80R28	R1	9.480	8.931	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	30.2	22.7
30	D80R30	R1	10.110	9.567	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	34.3	26.8
36	D80R36	R1	12.030	11.474	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	49.1	41.6
42	D80R42	R1	13.940	13.382	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	65.5	58.0
45	D80R45	R1	14.900	14.336	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	75.5	68.0
48	D80R48	R2	15.860	15.290	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	97.0	86.0
52	D80R52	R2	17.130	16.562	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	114.0	103.0
54	D80R54	R2	17.770	17.198	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	122.0	111.0
60	D80R60	R2	19.680	19.107	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	146.0	135.0
68	D80R68	R2	22.230	21.653	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	187.0	176.0
72	D80R72	R2	23.500	22.926	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	209.0	198.0
76	D80U76	U0	24.780	24.198	15	5-1/2	5-23/32	5-1/4	2-1/32	8-3/8	1-1/2	0.557	249.0	219.0
95	D80U95	U0	30.830	30.245	15	51/2	5-23/32	5-1/4	2-1/32	8-3/8	1-1/2	0.557	372.0	342.0

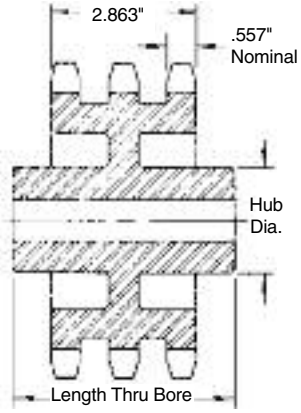
Sprockets with “H” suffix have hardened teeth.

No. 80-3
1" Pitch

All Steel Stock Sprockets



TYPE B

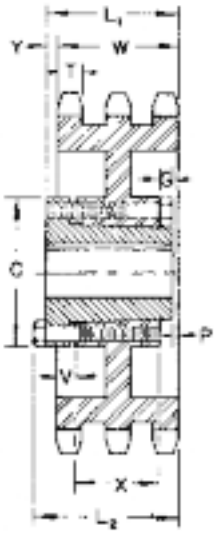


TYPE C

Triple - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	E80B11H	4.010	B	1	1¾	2½	3⅝	5.9
12	E80B12H	4.330	B	1	1⅞	2 27/32	3⅝	7.5
13	E80B13H	4.660	B	1	2¼	3 5/32	3⅝	9.2
14	E80B14H	4.980	B	1	2⅜	3 15/32	3⅝	11.0
15	E80B15H	5.300	B	1	2½	3 51/64	3⅝	13.1
16	E80B16H	5.630	B	1	2¾	4	3⅞	15.8
17	E80B17H	5.950	B	1	3	4 27/64	3⅞	18.6
18	E80B18H	6.270	B	1	3¼	4 47/64	3⅞	21.2
19	E80B19H	6.590	B	1	3 5/16	5	3⅞	23.7
20	E80B20H	6.910	B	1	3 5/16	5	3⅞	26.0
21	E80B21H	7.240	B	1	3 5/16	5	3⅞	28.4
22	E80B22H	7.560	B	1	3 5/16	5	3⅞	31.0
23	E80B23H	7.880	B	1	3 5/16	5	3⅞	33.6
24	E80B24H	8.200	B	1	3½	5¼	3⅞	37.1
25	E80B25H	8.520	B	1	3½	5¼	3⅞	40.1
26	E80B26	8.840	B	1	3½	5¼	3⅞	42.9
30	E80B30	10.110	B	1¼	3¾	5¾	4¼	54.5
35	E80B35	11.710	B	1¼	3¾	5¾	4¼	79.5
36	E80B36	12.030	B	1¼	3¾	5¾	4¼	83.9
42	E80C42	13.940	C	1¼	3 13/16	6	4½	84.9
45	E80C45	14.900	C	1¼	3 13/16	6	4½	92.4
52	E80C52	17.130	C	1½	3 13/16	6	4½	107.0
60	E80C60	19.680	C	1½	4¼	6¼	4¾	128.0
68	E80C68	22.230	C	1½	4¼	6¼	4¾	140.0
76	E80C76	24.780	C	1½	4¼	6¼	4¾	165.0
95	E80C95	30.830	C	1½	4½	6¾	5	240.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat, as indicated by H suffix.



QD — TYPE B_1



Alteration Charges

See current discount sheet for alteration charges.

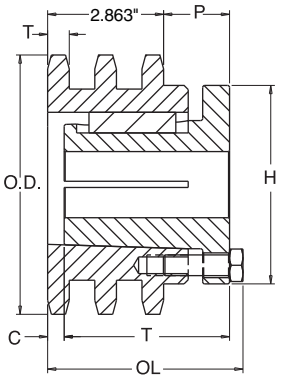
Triple - Type QD

No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	V	X	T	W	Weight Lbs.(Approx.) With Hub	Rim Only
36	E80E36	E	12.030	11.474	B	3½	3 7/64	3 27/64	6	¼	31/64	⅛	5/8	1⅝	0.557	2.863	65.1	55.1
42	E80E42	E	13.940	13.382	B	3½	3 7/64	3 27/64	6	¼	31/64	⅛	5/8	1⅝	0.557	2.863	81.9	71.9
45	E80E45	E	14.900	14.336	B1	3½	3 7/64	3 27/64	6	¼	31/64	⅛	5/8	1⅝	0.557	2.863	75.3	65.3
52	E80E52	E	17.130	16.562	B1	3½	3 7/64	3 27/64	6	¼	31/64	⅛	5/8	1⅝	0.557	2.863	90.0	80.0
60	E80F60	F	19.680	19.107	B1	3 15/16	3 43/64	4 3/64	6 5/8	13/16	3/64	⅛	3/16	2½	0.557	2.863	112.0	100.0
68	E80F68	F	22.230	21.653	B1	3 15/16	3 43/64	4 3/64	6 5/8	13/16	3/64	⅛	3/16	2½	0.557	2.863	132.0	120.0
76	E80F76	F	24.780	24.198	B1	3 15/16	3 43/64	4 3/64	6 5/8	13/16	3/64	⅛	3/16	2½	0.557	2.863	150.0	138.0
95	E80F95	F	30.830	30.245	B1	3 15/16	3 43/64	4 3/64	6 5/8	13/16	3/64	⅛	3/16	2½	0.557	2.863	208.0	196.0

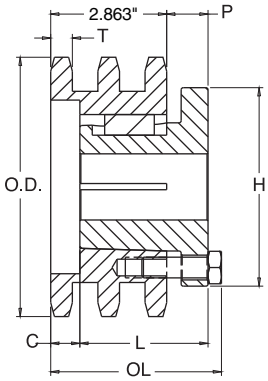
NOTE: Triple 80 stock sprockets with 25 teeth or less have hardened teeth.

MST® Sprockets

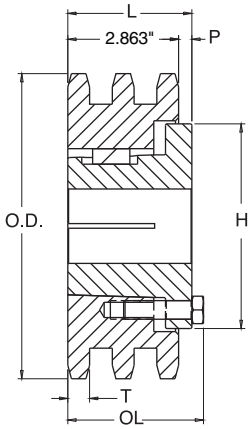
No. 80-3 1" Pitch



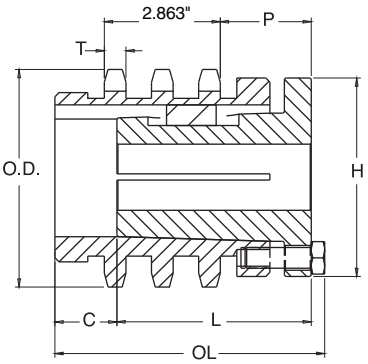
TYPE 22



TYPE 24



TYPE 25



TYPE 27

Triple - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	E80P13H	P2	4.660	4.179	24	1-3/4	3-3/4	2-15/16	9/16	3	5/8	0.557	7.2	5.7
14	E80Q14H	Q2	4.980	4.494	27	2-5/8	5-25/32	3-1/2	2	4-1/8	1-3/4	0.557	12.0	7.5
15	E80Q15H	Q2	5.300	4.810	22	2-5/8	4-29/32	3-1/2	1-1/8	4-1/8	1-3/4	0.557	12.6	8.1
16	E80Q16H	Q2	5.630	5.126	25	2-5/8	3-7/8	3-1/2	3/32	4-1/8	3/4	0.557	13.8	9.3
17	E80Q17H	Q2	5.950	5.442	24	2-5/8	3-29/32	3-1/2	1/8	4-1/8	3/4	0.557	14.3	9.8
18	E80Q18H	Q2	6.270	5.759	24	2-5/8	3-29/32	3-1/2	1/8	4-1/8	3/4	0.557	16.5	12.0
19	E80Q19H	Q2	6.590	6.076	24	2-5/8	3-29/32	3-1/2	1/8	4-1/8	3/4	0.557	18.4	13.9
20	E80R20H	R1	6.910	6.392	24	3-3/4	4-1/32	2-7/8	7/8	5-3/8	7/8	0.557	17.7	10.2
21	E80R21H	R1	7.240	6.710	24	3-3/4	4-1/32	2-7/8	7/8	5-3/8	7/8	0.557	19.9	12.4
22	E80R22H	R1	7.560	7.027	24	3-3/4	4-1/32	2-7/8	7/8	5-3/8	7/8	0.557	22.1	14.6
23	E80R23H	R1	7.880	7.344	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	23.4	15.9
24	E80R24	R1	8.200	7.661	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	7.2	18.5
25	E80R25	R1	8.520	7.979	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	12.0	20.3
26	E80R26	R1	8.840	8.296	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	12.6	23.4
27	E80R27	R1	9.160	8.614	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	13.8	25.8
28	E80R28	R1	9.480	8.931	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	14.3	28.1
30	E80R30	R1	10.110	9.567	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	16.5	33.3
36	E80S36	S1	12.030	11.474	22	4-1/4	5-1/8	4-3/8	0	6-3/8	1-1/2	0.557	18.4	67.0
42	E80S42	S1	13.940	13.382	22	4-1/4	5-1/8	4-3/8	0	6-3/8	1-1/2	0.557	17.7	96.1
45	E80S45	S1	14.900	14.336	22	4-1/4	5-1/8	4-3/8	0	6-3/8	1-1/2	0.557	19.9	112.0
52	E80U52	U0	17.130	16.562	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	22.1	150.0
60	E80U60	U0	19.680	19.107	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	23.4	207.0
68	E80U68	U0	22.230	21.653	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	23.4	271.0
76	E80U76	U0	24.780	24.198	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	23.4	344.0
95	E80U95	U0	30.830	30.245	25	5-1/2	5-55/64	5-1/4	1/32	8-3/8	1-13/32	0.557	23.4	183.0

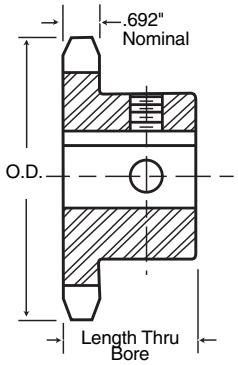
Sprockets with “H” suffix have hardened teeth.

No. 100
1¼" Pitch

All Steel
Stock Sprockets



BORED-TO-SIZE



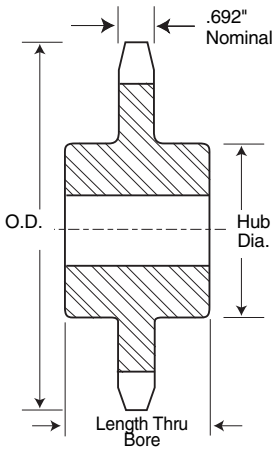
TYPE BS

Single - Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and Setscrews
8	100BS8	3.770	1⅞	2.8	1 — 1 3/16 — 1¼
9	100BS9	4.180	1⅞	3.0	1 — 1 3/16 — 1¼ — 1 7/16
10	100BS10	4.600	1⅞	3.9	1 — 1 3/16 — 1¼ — 1 7/16
11	100BS11	5.010	1⅞	4.9	1 — 1 3/16 — 1¼ — 1 7/16 — 1 15/16 — 2 — 2 3/16
12	100BS12	5.420	1⅞	6.0	1 — 1 3/16 — 1¼ — 1 7/16 — 1 15/16 — 2 — 2 3/16
13	100BS13	5.820	1⅝	6.2	1 — 1 3/16 — 1¼ — 1 7/16 — 1 15/16 — 2 — 2 3/16
14	100BS14	6.230	1⅝	6.6	— 1¼ — 1 7/16 — 1 15/16 — 2 — 2 3/16
15	100BS15	6.630	1¾	8.4	— 1¼ — 1 7/16 — 1 15/16 — 2 — 2 3/16
16	100BS16	7.030	1¾	9.0	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
17	100BS17	7.440	1¾	9.9	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
18	100BS18	7.840	1¾	10.6	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
19	100BS19	8.240	2	12.1	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
20	100BS20	8.640	2	13.2	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
21	100BS21	9.040	2	14.3	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
22	100BS22	9.440	2	15.1	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
23	100BS23	9.840	2	16.1	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
24	100BS24	10.250	2	18.1	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16
25	100BS25	10.650	2	18.4	— 1 7/16 — 1 15/16 — 2 — 2 3/16 — 2 7/16 — 2 15/16

Hub diameters vary to suit different bore sizes.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



TYPE C

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
10	100C10	4.600	1	1⅞	3 9/32	2⅞	6.13
11	100C11	5.010	1	2¼	3 9/16	2⅞	7.12
12	100C12	5.420	1	2 1/16	4	2⅞	8.37
13	100C13	5.820	1	2⅜	3 57/64	2⅞	10.00
14	100C14	6.230	1	2¾	4 3/16	2⅞	12.19

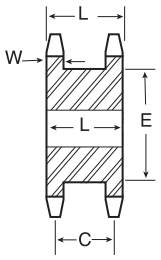
All Steel Stock Sprockets

No. 100 1¼" Pitch





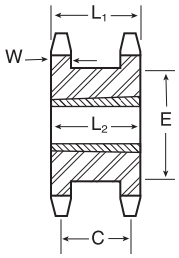




TYPE A

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
13	DS100A13	5.820	5.223	A	1	2½	2 11/16	2	3 25/32	0.692	11.2
14	DS100A14	6.230	5.617	A	1¼	2¾	2 11/16	2	4 3/16	0.692	13.5
15	DS100A15	6.630	6.012	A	1¼	3 1/16	2 11/16	2	4 19/32	0.692	16.8
16	DS100A16	7.030	6.407	A	1¼	3¼	2 11/16	2	5	0.692	19.3
17	DS100A17	7.440	6.803	A	1¼	3⅜	2 11/16	2	5 13/32	0.692	21.5
18	DS100A18	7.840	7.198	A	1¼	3¾	2 11/16	2	5 51/64	0.692	23.0
19	DS100A19	8.240	7.595	A	1¼	4 3/16	2 11/16	2	6 13/64	0.692	25.0
20	DS100A20	8.640	7.991	A	1¼	4 3/16	2 11/16	2	6 39/64	0.692	26.5
21	DS100A21	9.040	8.387	A	1¼	5¼	2 11/16	2	7	0.692	29.0

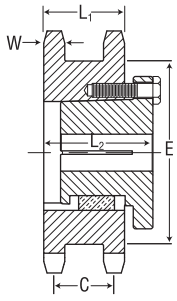


TAPER BUSH TYPE A

Double Single - Taper Bushed — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	
15	DS100ATB15H	2517	6.630	6.012	¾	2½	A	2 11/16	2	4 19/32	1¾	0.692	12.5
16	DS100ATB16H	2517	7.030	6.407	¾	2½	A	2 11/16	2	5	1¾	0.692	13.0
17	DS100ATB17H	3020	7.440	6.803	15/16	3	A	2 11/16	2	5 13/32	2	0.692	14.0
18	DS100ATB18H	3020	7.840	7.198	15/16	3	A	2 11/16	2	5 51/64	2	0.692	16.0
19	DS100ATB19H	3020	8.240	7.595	15/16	3	A	2 11/16	2	6 13/64	2	0.692	20.0
20	DS100ATB20H	3020	8.640	7.991	15/16	3	A	2 11/16	2	6 39/64	1¾	0.692	27.5
21	DS100ATB21H	3020	9.040	8.387	15/16	3	A	2 11/16	2	7	2	0.692	27.5

Sprockets with "H" suffix have hardened teeth.



MST TYPE B

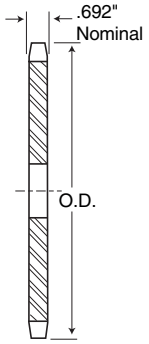
Double Single - MST® — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L_1	C	E	L_2	w Nom.	
17	DS100R17H	R1	7.440	6.803	1⅛	3¾	B	2 11/16	2	5 13/32	3 27/32	0.692	12.5
19	DS100R19H	R1	8.240	7.595	1⅛	3¾	B	2 11/16	2	6 13/64	3 27/32	0.692	18.8
21	DS100R21H	R1	9.040	8.387	1⅛	3¾	B	2 11/16	2	7	3 27/32	0.692	23.1

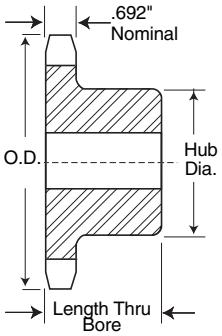
Sprockets with "H" suffix have hardened teeth.

No. 100
1¼" Pitch

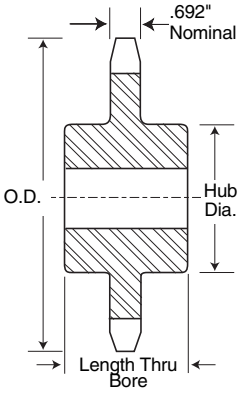
Stainless Steel Stock Sprockets



TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
11	100B11SS	5.010	B	1	2¼	3⁹⁄₁₆ ★	1⅞	5.3	–	–	–	–
12	100B12SS	5.420	B	1	2¼	4 ★	1⅞	6.4	–	–	–	–
13	100B13SS	5.820	B	1	2⅜	3⅞	1⅝	6.6	–	–	–	–
14	100B14SS	6.230	B	1¼	2¾	4³⁄₁₆	1⅝	7.4	–	–	–	–
15	100B15SS	6.630	B	1¼	3	4½	1¾	9.2	–	–	–	–
16	100B16SS	7.030	B	1⁵⁄₁₆	3	4½	1¾	9.9	A	100A16SS	1¼	5.4
17	100B17SS	7.440	B	1⁵⁄₁₆	3	4½	1¾	10.8	A	100A17SS	1¼	6.1
18	100B18SS	7.840	B	1⁵⁄₁₆	3	4½	1¾	11.5	A	100A18SS	1¼	7.0
19	100B19SS	8.240	B	1⁵⁄₁₆	3	4½	2	13.1	A	100A19SS	1¼	7.8
20	100B20SS	8.640	B	1⁵⁄₁₆	3	4½	2	14.2	A	100A20SS	1¼	8.8
21	100B21SS	9.040	B	1⁵⁄₁₆	3	4½	2	15.3	A	100A21SS	1¼	9.8

★ Has recessed groove in hub for chain clearance.

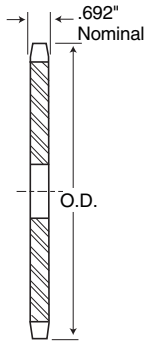
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Alteration Charges

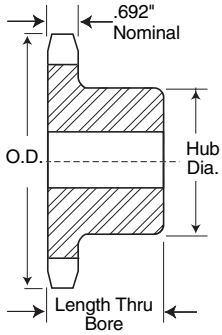
See current discount sheet for alteration charges.

All Steel Stock Sprockets

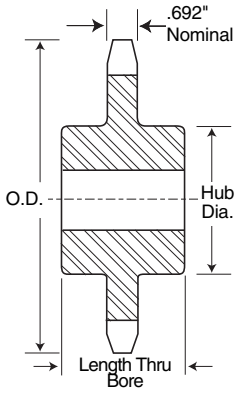
No. 100 1¼" Pitch



TYPE A



TYPE B



TYPE C

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B & C

Single-Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
7		3.350							A	100A7	1	1.2
8	100B8	3.770	B	1	1¼	2 7/16 ★	1⅞	2.3	A	100A8	1	1.4
9	100B9	4.180	B	1	1⅜	2 13/16 ★	1⅞	3.2	A	100A9	1	1.6
10	100B10	4.600	B	1	1⅜	3¼ ★	1⅞	4.1	A	100A10	1	2.0
11	100B11	5.010	B	1	2¼	3 9/16 ★	1⅞	5.3	A	100A11	1¼	2.5
12	100B12	5.420	B	1	2¼	4 ★	1⅞	6.4	A	100A12	1¼	3.0
13	100B13	5.820	B	1	2⅜	3⅞	1⅝	6.6	A	100A13	1¼	3.5
14	100B14	6.230	B	1¼	2¾	4 3/16	1⅝	7.4	A	100A14	1¼	4.1
15	100B15	6.630	B	1¼	3	4½	1¾	9.2	A	100A15	1¼	4.7
16	100B16	7.030	B	1 5/16	3	4½	1¾	9.9	A	100A16	1¼	5.4
17	100B17	7.440	B	1 5/16	3	4½	1¾	10.8	A	100A17	1¼	6.1
18	100B18	7.840	B	1 5/16	3	4½	1¾	11.5	A	100A18	1¼	7.0
19	100B19	8.240	B	1 5/16	3	4½	2	13.1	A	100A19	1¼	7.8
20	100B20	8.640	B	1 5/16	3	4½	2	14.2	A	100A20	1¼	8.8
21	100B21	9.040	B	1 5/16	3	4½	2	15.3	A	100A21	1¼	9.8
22	100B22	9.440	B	1 5/16	3	4½	2	16.1	A	100A22	1¼	10.5
23	100B23	9.840	B	1¼	3	4½	2	17.2	A	100A23	1¼	11.8
24	100B24	10.250	B	1¼	3	4½	2	19.2	A	100A24	1¼	12.8
25	100B25	10.650	B	1¼	3	4½	2	19.5	A	100A25	1¼	13.9
26	100B26	11.050	B	1¼	3 5/16	5	2	21.7	A	100A26	1¼	15.0
27	100B27	11.440	B	1¼	3 5/16	5	2	23.0	A	100A27	1¼	16.0
28	100B28	11.840	B	1¼	3 5/16	5	2	24.4	A	100A28	1¼	17.4
29	100B29	12.240	B	1¼	3 5/16	5	2	25.0	A	100A29	1¼	19.6
30	100B30	12.640	B	1¼	3 5/16	5	2	26.9	A	100A30	1¼	20.1
31		13.040							A	100A31	1¼	21.5
32	100B32	13.440	B	1¼	3 5/16	5	2	29.8	A	100A32	1¼	22.6
33		13.840							A	100A33	1¼	24.1
34		14.240							A	100A34	1¼	26.0
35	100B35	14.640	B	1¼	3 5/16	5	2½	36.9	A	100A35	1¼	27.2
36	100B36	15.040	B	1¼	3 5/16	5	2½	38.6	A	100A36	1¼	30.0
37		15.440							A	100A37	1¼	31.0
38	100B38	15.840	B	1¼	3 5/16	5	2½	41.5	A	100A38	1¼	33.0
39	100B39	16.230	B	1¼	3 5/16	5	2½	43.6	A	100A39	1¼	35.0
40	100B40	16.630	B	1¼	3 5/16	5	2½	46.9	A	100A40	1¼	36.0
41		17.030							A	100A41	1¼	39.0
42	100B42	17.430	B	1¼	3 5/16	5	2½	50.4	A	100A42	1¼	40.0
43		17.830							A	100A43	1½	43.0
44		18.230							A	100A44	1½	45.0
45	100B45	18.630	B	1½	3 5/16	5	2½	54.0	A	100A45	1½	47.0
46		19.020							A	100A46	1½	48.0
47		19.420							A	100A47	1½	52.0
48	100B48	19.820	B	1½	4	6	2½	66.0	A	100A48	1½	54.0
49		20.220							A	100A49	1½	56.0
50		20.620							A	100A50	1½	57.0
51		21.020							A	100A51	1½	63.0
52		21.420							A	100A52	1½	64.0
53		21.810							A	100A53	1½	64.2
54	100C54	22.210	C	1½	4	6	3¼	78.0	A	100A54	1½	68.0
55		22.610							A	100A55	1½	70.0
56		23.010							A	100A56	1½	72.0
57		23.410							A	100A57	1½	75.8
58		23.810							A	100A58	1½	76.0
59		24.200							A	100A59	1½	77.0
60	100C60	24.600	C	1½	4	6	3¼	89.0	A	100A60	1½	80.0
70	100C70	28.580	C	1½	5¼	7	3¾	125.0	A	100A70	1½	113
72	100C72	29.380	C	1½	5¼	7	3¾	134.0	A	100A72	1½	119
76	100C76	30.973	C	1½	5¼	7	3¾	143.0	A	100A76	1½	133
80	100C80	32.570	C	1½	5¼	7	3¾	151.0	A	100A80	1½	146
84	100C84	34.160	C	1½	5¼	7	3¾	170.0	A	100A84	1½	162
90	100C90	36.550	C	1½	5¼	7	3¾	184.0	A	100A90	1½	193
96	100C96	38.930	C	1½	5¼	7	4½	203.0	A	100A96	1½	215

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 100
1¼" Pitch

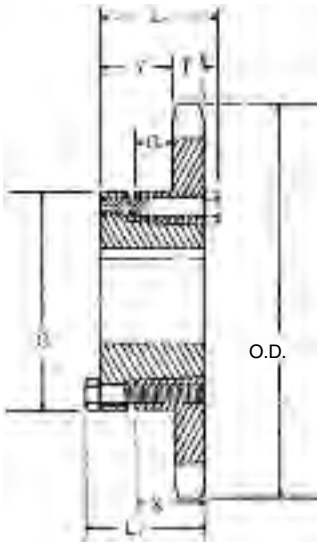
All Steel Stock Sprockets

Martin

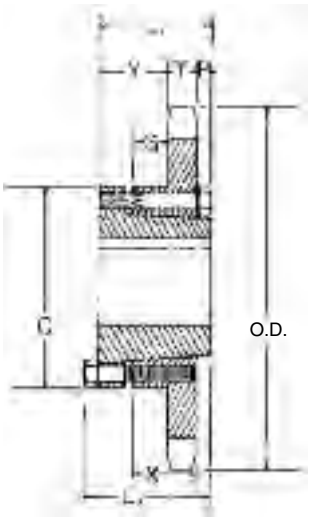
Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
11	100SDS11H
12	100SDS12H
13	100SK13H
14	100SK14H
15	100SF15H
16	100SF16H
17	100SF17H
18	100E18H
19	100E19H
20	100E20H
21	100E21H
22	100E22H
23	100E23H
24	100E24H
25	100E25H
26	100E26H
27	100E27H
28	100E28H
30	100E30H

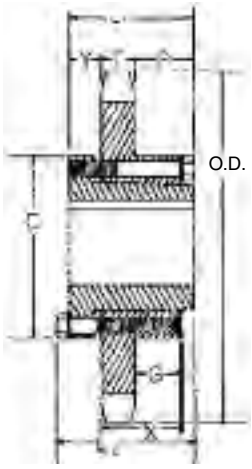
SABER TOOTH®



QD — TYPE B



QD — TYPE B_1



QD — TYPE C

Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	P	G	X	T	With Hub	Rim Only
11	100SDS11	SDS	5.010	4.437	B	2	1½	1½	3 3/16	5/8	–	1/16	3/4	0.692	3.0	2.0
12	100SDS12	SDS	5.420	4.830	B	2	1½	1½	3 3/16	5/8	–	1/16	3/4	0.692	3.6	2.6
13	100SK13	SK	5.820	5.223	B	2 5/8	2 1/8	2 1/8	3 7/8	1 13/64	–	9/16	1 1/4	0.692	5.3	3.3
14	100SK14	SK	6.230	5.617	B	2 5/8	2 1/8	2 1/8	3 7/8	1 13/64	–	9/16	1 1/4	0.692	6.1	4.1
15	100SF15	SF	6.630	6.012	B	2 15/16	2 1/4	2 1/4	4 5/8	1 19/64	–	9/16	1 1/4	0.692	7.8	4.8
16	100SF16	SF	7.030	6.407	B	2 15/16	2 1/4	2 1/4	4 5/8	1 19/64	–	9/16	1 1/4	0.692	8.6	5.6
17	100SF17	SF	7.440	6.803	B	2 15/16	2 1/4	2 1/4	4 5/8	1 19/64	–	9/16	1 1/4	0.692	9.5	6.5
18	100E18	E	7.840	7.198	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	19.0	9.0
19	100E19	E	8.240	7.595	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	20.2	10.2
20	100E20	E	8.640	7.991	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	21.6	11.6
21	100E21	E	9.040	8.387	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	22.5	12.5
22	100E22	E	9.440	8.783	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	23.5	13.5
23	100E23	E	9.840	9.180	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	24.6	14.6
24	100E24	E	10.250	9.577	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	25.7	15.7
25	100E25	E	10.650	9.973	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	26.8	16.8
26	100E26	E	11.050	10.370	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	28.1	18.1
27	100E27	E	11.440	10.767	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	29.2	19.2
28	100E28	E	11.840	11.164	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	30.7	20.7
30	100E30	E	12.640	11.958	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	33.2	23.2
32	100E32	E	13.440	12.753	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	35.4	25.4
35	100E35	E	14.640	13.945	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	40.5	30.5
36	100E36	E	15.040	14.342	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	42.5	32.3
40	100E40	E	16.630	15.932	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	49.1	39.1
42	100E42	E	17.430	16.727	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	53.4	43.4
45	100E45	E	18.630	17.920	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	58.9	48.9
48	100E48	E	19.820	19.112	B1	3½	2 5/8	2 15/16	6	1 13/16	1/8	15/16	1 5/8	0.692	64.0	54.0
54	100E54	E	22.210	21.498	C	3½	2 5/8	2 15/16	6	7/8	1 1/16	15/16	1 5/8	0.692	72.0	62.0
60	100E60	E	24.600	23.884	C	3½	2 5/8	2 15/16	6	7/8	1 1/16	15/16	1 5/8	0.692	84.0	74.0
70	100F70	F	28.580	27.862	C	3 15/16	3 3/8	4	6 5/8	1	1 15/16	1 3/16	2½	0.692	110.5	99.0
72	100F72	F	29.380	28.657	C	3 15/16	3 3/8	4	6 5/8	1	1 15/16	1 3/16	2½	0.692	117.5	106.0
80	100F80	F	32.570	31.839	C	3 15/16	3 3/8	4	6 5/8	1	1 15/16	1 3/16	2½	0.692	134.5	123.0
84	100F84	F	34.160	33.430	C	3 15/16	3 3/8	4	6 5/8	1	1 15/16	1 3/16	2½	0.692	151.5	140.0

All Steel Stock Sprockets

No. 100 1¼" Pitch

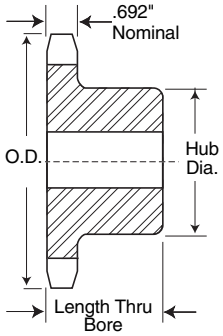
Single - Taper Bushed with Hardened Teeth



SABER TOOTH®

No. Teeth	Catalog Number
11	100BTB11H
12	100BTB12H
13	100BTB13H
14	100BTB14H
15	100BTB15H
16	100BTB16H
17	100BTB17H
18	100BTB18H
19	100BTB19H
20	100BTB20H
21	100BTB21H
22	100BTB22H
24	100BTB24H
26	100BTB26H
28	100BTB28H
30	100BTB30H

Single - Taper Bushed



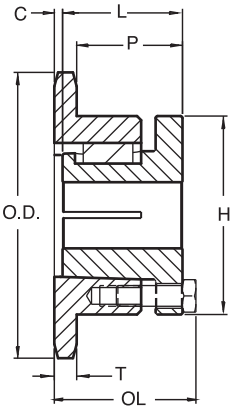
TYPE B

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
11	100BTB11	1615	5.007	4.437	1⅝	1½	3	B	2.7	1.2
12	100BTB12	1615	5.415	4.830	1⅝	1½	3¼	B	3.5	1.2
13	100BTB13	2012	5.821	5.223	2	1¼	3 3/16	B	3.6	1.7
14	100BTB14	2012	6.227	5.617	2	1¼	3 3/16	B	3.9	1.7
15	100BTB15	2517	6.631	6.012	2½	1¾	4¼	B	5.0	3.5
16	100BTB16	2517	7.034	6.407	2½	1¾	4½	B	6.4	3.5
17	100BTB17	2517	7.437	6.803	2½	1¾	4½	B	7.1	3.5
18	100BTB18	2517	7.839	7.198	2½	1¾	4½	B	7.8	3.5
19	100BTB19	2517	8.241	7.594	2½	1¾	4½	B	8.7	3.5
20	100BTB20	2517	8.642	7.991	2½	1¾	4½	B	9.6	3.5
21	100BTB21	2517	9.043	8.387	2½	1¾	4½	B	10.6	3.5
22	100BTB22	2517	9.444	8.783	2½	1¾	4½	B	11.0	3.5
24	100BTB24	2517	10.245	9.577	2½	1¾	4½	B	13.0	3.5
26	100BTB26	2517	11.045	10.370	2½	1¾	4½	B	15.0	3.5
28	100BTB28	3020	11.844	11.164	3	2	5¼	B	16.5	6.5
30	100BTB30	3020	12.643	11.958	3	2	5¼	B	22.0	6.5
32	100BTB32	3020	13.442	12.753	3	2	5¼	B	23.0	6.5
35	100BTB35	3020	14.639	13.945	3	2	5¼	B	28.0	6.5
36	100BTB36	3020	15.038	14.342	3	2	5¼	B	31.0	6.5
40	100BTB40	3020	16.633	15.932	3	2	5¼	B	37.0	6.5
45	100BTB45	3020	18.626	17.919	3	2	5¼	B	46.0	6.5
48	100BTB48	3020	19.821	19.112	3	2	5¼	B	53.0	6.5
54	100BTB54	3020	22.212	21.498	3	2	5¼	B	62.0	6.5
60	100BTB60	3020	24.601	23.884	3	2	5¼	B	72.0	6.5

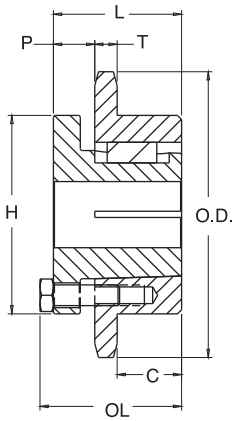
No. 100
1¼" Pitch

MST® Sprockets





TYPE 4



TYPE 5

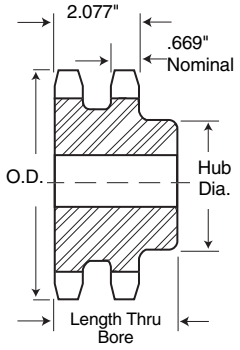
Single - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	100P11H	P1	5.010	4.437	4	1-3/4	2-3/16	1-15/16	–	3	1-1/4	0.692	4.1	2.8
12	100Q12H	Q1	5.420	4.830	4	2-11/16	2-27/32	2-1/2	1/16	4-1/8	1-7/8	0.692	7.0	3.5
13	100Q13H	Q1	5.820	5.223	4	2-11/16	2-27/32	2-1/2	1/16	4-1/8	1-7/8	0.692	7.8	4.3
14	100Q14H	Q1	6.230	5.617	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	9.1	5.6
15	100Q15H	Q1	6.630	6.012	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	10.1	6.6
16	100Q16H	Q1	7.030	6.407	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	10.9	7.4
17	100Q17H	Q1	7.440	6.803	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	11.7	8.2
18	100Q18H	Q1	7.840	7.198	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	12.5	9.0
19	100Q19H	Q1	8.240	7.595	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	13.3	9.8
20	100Q20H	Q1	8.640	7.991	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	14.4	10.9
21	100Q21H	Q1	9.040	8.387	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	15.3	11.8
21	100R21H	R1	9.040	8.387	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	20.8	13.3
22	100Q22H	Q1	9.440	8.783	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	16.1	12.6
23	100Q23H	Q1	9.840	9.180	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	17.3	13.8
24	100Q24H	Q1	10.250	9.577	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	18.9	15.4
24	100R24H	R1	10.250	9.577	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	23.1	15.6
25	100Q25H	Q1	10.650	9.973	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	19.5	16.0
25	100R25H	R1	10.650	9.973	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	24.5	17.0
26	100Q26H	Q1	11.050	10.370	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	20.8	17.3
26	100R26H	R1	11.050	10.370	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	25.4	17.9
27	100Q27H	Q1	11.440	10.767	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	21.7	18.2
27	100R27H	R1	11.440	10.767	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	27.1	19.6
28	100Q28H	Q1	11.840	11.164	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	23.1	19.6
28	100R28H	R1	11.840	11.164	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	28.5	21.0
30	100Q30H	Q1	12.640	11.958	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	25.9	22.4
30	100R30H	R1	12.640	11.958	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	32.0	24.5
32	100Q32	Q1	13.440	12.753	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	28.8	25.3
32	100R32	R1	13.440	12.753	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	34.0	26.5
35	100Q35	Q1	14.640	13.945	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-13/16	0.692	33.7	30.2
35	100R35	R1	14.640	13.945	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	37.3	29.8
36	100R36	R1	15.040	14.342	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	40.5	33.0
40	100R40	R1	16.630	15.932	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	48.4	40.9
42	100R42	R1	17.430	16.727	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	51.8	44.3
45	100R45	R1	18.630	17.920	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	58.0	50.5
48	100R48	R1	19.820	19.112	4	3-3/4	3-5/32	2-7/8	–	5-3/8	2-3/16	0.692	65.0	57.5
54	100R54	R1	22.210	21.498	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	76.5	69.0
60	100R60	R1	24.600	23.884	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	91.5	84.0
70	100R70	R1	28.580	27.862	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	111.5	104.0
72	100R72	R1	29.380	28.657	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	113.5	106.0
80	100R80	R1	32.570	31.839	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	142.5	135.0
84	100R84	R1	34.160	33.430	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	145.5	138.0

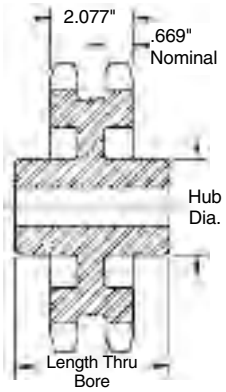
Sprockets with “H” suffix have hardened teeth.

All Steel Stock Sprockets

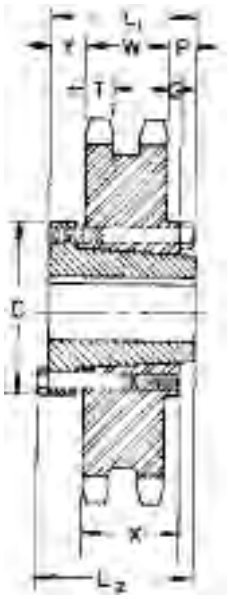
No. 100-2 1¼" Pitch



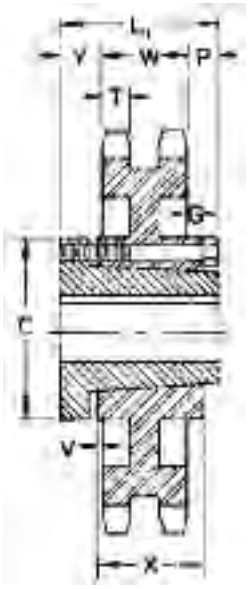
TYPE B



TYPE C



QD — TYPE C_2



QD — TYPE C_6

Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
9	D100B9	4.180	B	1	1⅜	2⅜	2⅞	4.6
10	D100B10	4.600	B	1	1⅞	2¾	2⅞	6.2
11	D100B11	5.010	B	1	2⅛	3⅛	2⅞	7.9
12	D100B12	5.420	B	1⅛	2¼	3⅜	2⅞	9.3
13	D100B13	5.820	B	1⅛	2½	3 3/16	2⅞	11.4
14	D100B14	6.230	B	1⅛	2¾	4 3/16	2⅞	13.6
15	D100B15	6.630	B	1¼	3⅛	4⅝	3⅛	17.1
16	D100B16	7.030	B	1¼	3 5/16	5	3⅛	20.1
17	D100B17	7.440	B	1¼	3½	5¼	3⅛	23.1
18	D100B18	7.840	B	1¼	3½	5¼	3⅛	25.4
19	D100B19	8.240	B	1¼	3¾	5½	3⅜	29.6
20	D100B20	8.640	B	1¼	3¾	5½	3⅜	32.4
21	D100B21	9.040	B	1¼	3¾	5½	3⅜	35.3
22	D100B22	9.440	B	1¼	3¾	5½	3⅜	38.4
23	D100B23	9.840	B	1¼	3¾	5½	3⅜	41.3
24	D100B24	10.250	B	1¼	3¾	5¾	3⅜	45.1
25	D100B25	10.650	B	1¼	3¾	5¾	3⅜	48.5
26	D100B26	11.050	B	1½	3¾	5¾	3⅜	51.5
30	D100B30	12.640	B	1½	3¾	5¾	3⅜	65.0
35	D100C35	14.640	C	1½	3 15/16	6	4¼	75.0
45	D100C45	18.630	C	1½	3 15/16	6	4½	103.0
60	D100C60	24.600	C	1½	5⅜	7½	5	175.0
70	D100C70	28.580	C	1½	5⅜	7½	5	197.0
80	D100C80	32.570	C	1½	5⅜	7½	5	231.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



Alteration Charges

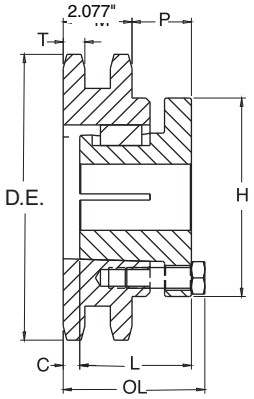
See current discount sheet for alteration charges.

Double - Type QD

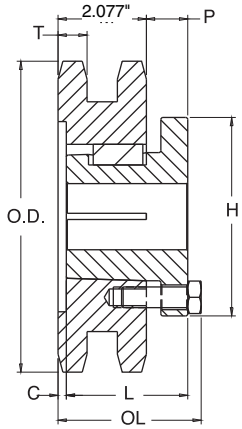
No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	V	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
35	D100F35	F	14.640	13.945	C2	3 15/16	3⅝	4	6⅝	1	35/64	27/64	–	2½	0.669	2.077	84.5	73.0
45	D100F45	F	18.630	17.920	C2	3 15/16	3⅝	4	6⅝	1	35/64	27/64	–	2½	0.669	2.077	92.5	81.0
60	D100J60	J	24.600	23.884	C6	4 7/16	4½	5	7¼	1 7/32	1 13/64	1 3/32	1/32	3 3/16	0.669	2.077	152.0	133.0
70	D100J70	J	28.580	27.862	C6	4 7/16	4½	5	7¼	1 7/32	1 13/64	1 3/32	1/32	3 3/16	0.669	2.077	180.0	161.0
80	D100J80	J	32.570	31.839	C6	4 7/16	4½	5	7¼	1 7/32	1 13/64	1 3/32	1/32	3 3/16	0.669	2.077	215.0	196.0

No. 100-2
1¼" Pitch

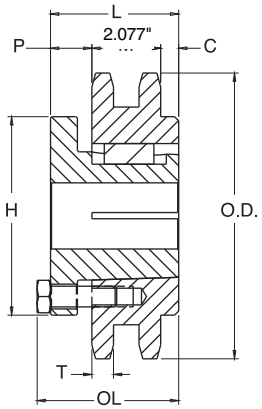
MST® Sprockets



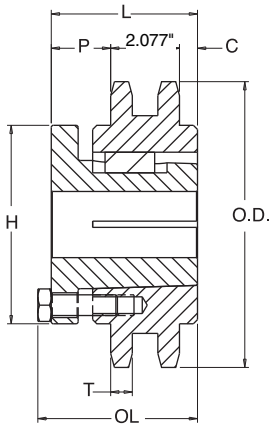
TYPE 12



TYPE 14



TYPE 15



TYPE 18

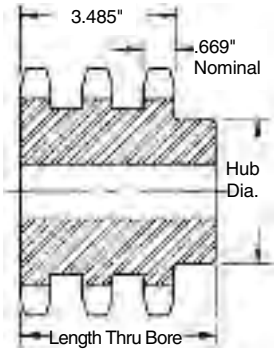
Double - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	D100P11H	P1	5.010	4.437	14	1-3/4	2-15/16	1-15/16	3/4	3	5/8	0.669	6.0	4.7
12	D100Q12H	Q2	5.420	4.830	12	2-5/8	4-7/32	3-1/2	7/16	4-1/8	1-55/64	0.669	10.4	5.9
13	D100Q13H	Q2	5.820	5.223	12	2-5/8	4-7/32	3-1/2	7/16	4-1/8	1-55/64	0.669	12.4	7.9
14	D100Q14H	Q1	6.230	5.617	14	2-11/16	3-3/32	2-1/2	5/16	4-1/8	3/4	0.669	10.9	7.4
15	D100Q15H	Q1	6.630	6.012	14	2-11/16	3-3/32	2-1/2	5/16	4-1/8	3/4	0.669	12.6	9.1
16	D100Q16H	Q1	7.030	6.407	14	2-11/16	3-3/32	2-1/2	5/16	4-1/8	3/4	0.669	14.4	10.9
17	D100R17H	R1	7.440	6.803	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	17.5	10.0
18	D100R18H	R1	7.840	7.198	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	19.8	12.3
19	D100R19	R1	8.240	7.595	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	22.4	14.9
20	D100R20	R1	8.640	7.991	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	24.9	17.4
21	D100R21	R1	9.040	8.387	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	27.8	20.3
22	D100R22	R1	9.440	8.783	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	30.3	22.8
24	D100R24	R1	10.250	9.577	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	37.0	29.5
35	D100R35	R1	14.640	13.945	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	84.3	76.8
45	D100S45	S1	18.630	17.920	15	4-1/4	4-3/4	4-3/8	1-15/64	6-3/8	1-1/16	0.669	151.5	138.0
60	D100S60	S1	24.600	23.884	15	4-1/4	4-3/4	4-3/8	1-15/64	6-3/8	1-1/16	0.669	264.5	251.0
70	D100S70	S1	28.580	27.862	18	4-1/4	7-1/8	6-3/4	2-1/4	6-3/8	2-7/16	0.669	371.5	358.0
80	D100S80	S1	32.570	31.839	18	4-1/4	7-1/8	6-3/4	2-1/4	6-3/8	2-7/16	0.669	444.5	431.0

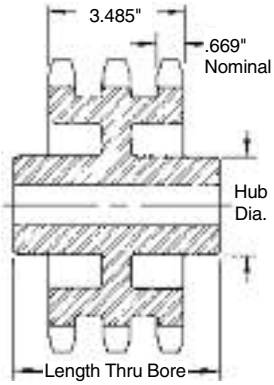
Sprockets with “H” suffix have hardened teeth.

All Steel Stock Sprockets

No. 100-3 1¼" Pitch

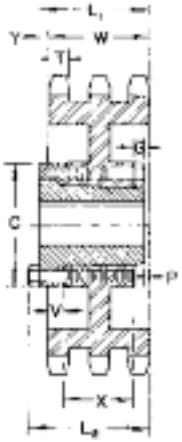


TYPE B

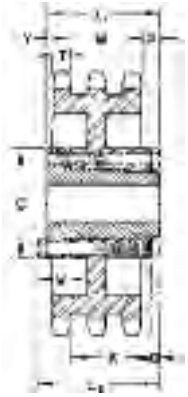


TYPE C





QD — TYPE B_1



QD — TYPE C_3

Triple - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	E100B11	5.010	B	1	2⅛	3⅛	4¼	11.7
12	E100B12	5.420	B	1⅛	2¼	3⅜	4¼	13.7
13	E100B13	5.820	B	1⅛	2½	3 13/16	4¼	16.9
14	E100B14	6.230	B	1⅛	2¾	4 3/16	4¼	20.2
15	E100B15	6.630	B	1¼	3⅛	4⅝	4½	25.0
16	E100B16	7.030	B	1¼	3 5/16	5	4½	29.3
17	E100B17	7.440	B	1¼	3½	5¼	4½	33.8
18	E100B18	7.840	B	1¼	3½	5¼	4¾	38.6
19	E100B19	8.240	B	1¼	3¾	5½	4¾	43.3
20	E100B20	8.640	B	1¼	3¾	5½	4¾	47.9
21	E100B21	9.040	B	1¼	3¾	5½	4¾	52.3
22	E100B22	9.440	B	1¼	3¾	5½	4¾	57.5
23	E100B23	9.840	B	1¼	3¾	5½	4¾	62.5
24	E100B24	10.250	B	1¼	3¾	5¾	4¾	69.0
25	E100B25	10.650	B	1¼	3¾	5¾	4¾	73.0
26	E100B26	11.050	B	1½	3 13/16	5¾	4¾	79.0
30	E100B30	12.640	B	1½	3 13/16	5¾	4¾	103.0
35	E100C35	14.640	C	1½	4	6	5	108.0
45	E100C45	18.630	C	1½	4	6	5	143.0
60	E100C60	24.600	C	1½	5⅜	7½	5	217.0
70	E100C70	28.580	C	1½	5⅜	7½	5	262.0
80	E100C80	32.570	C	1½	5⅜	7½	5	313.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Alteration Charges

See current discount sheet for alteration charges.

Triple - Type QD

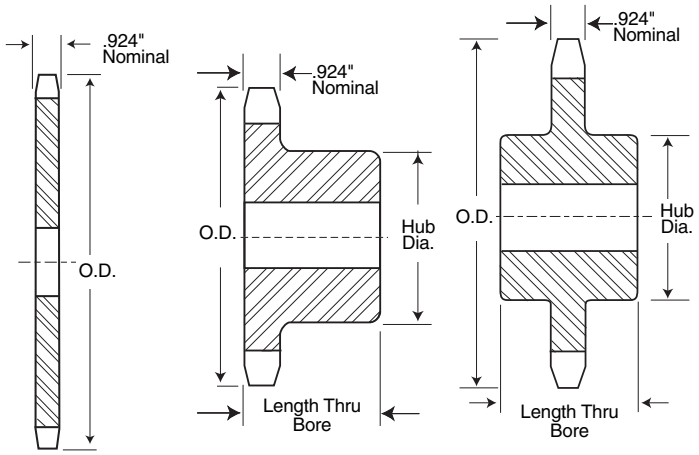
No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	P	G	V	X	T	W	With Hub	Rim Only
35	E100F35	F	14.640	13.945	B1	3 15/16	3 63/64	4 23/64	6⅝	½	23/64	⅛	½	2½	0.669	3.485	112	100
45	E100F45	F	18.630	17.820	B1	3 15/16	3 63/64	4 23/64	6⅝	½	23/64	⅛	½	2½	0.669	3.485	139	120
60	E100J60	J	24.600	28.884	C3	4 7/16	4½	5	7¼	½	33/64	⅜	1/16	3 3/16	0.669	3.485	197	178
70	E100J70	J	28.580	27.862	C3	4 7/16	4½	5	7¼	½	33/64	⅜	1/16	3 3/16	0.669	3.485	247	228
80	E100J80	J	32.570	31.839	C3	4 7/16	4½	5	7¼	½	33/64	⅜	1/16	3 3/16	0.669	3.485	287	268

No. 120
1½" Pitch

All Steel Stock Sprockets

Martin





TYPE A **TYPE B** **TYPE C**

Single - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
8	–	4.520	–	–	–	–	–	–
9	120B9	5.020	B	1⅜	1 13/16	3⅜ ★	2¼	5.3
10	120B10	5.520	B	1⅜	2¼	3¾ ★	2¼	7.1
11	120B11	6.010	B	1⅜	2⅜	3 9/16	2⅛	7.6
12	120B12	6.500	B	1⅜	2¾	4⅛	2⅛	9.9
13	120B13	6.990	B	1⅜	3	4 9/16	2¼	12.4
14	120B14	7.470	B	1⅜	3¼	4⅞	2¼	14.4
15	120B15	7.960	B	1¼	3¼	4¾	2⅜	16.7
16	120B16	8.440	B	1¼	3½	5¼	2⅜	19.9
17	120B17	8.920	B	1¼	3½	5¼	2⅜	20.8
18	120B18	9.410	B	1¼	3½	5¼	2⅜	22.2
19	120B19	9.890	B	1¼	3½	5¼	2⅜	24.8
20	120B20	10.370	B	1¼	3½	5¼	2⅜	25.8
21	120B21	10.850	B	1¼	3½	5¼	2⅜	26.7
22	120B22	11.330	B	1¼	3½	5¼	2⅜	28.2
23	120B23	11.810	B	1¼	3½	5¼	2⅜	30.3
24	120B24	12.290	B	1¼	3½	5¼	2⅜	32.1
25	120B25	12.770	B	1¼	3½	5¼	2⅜	34.6
26	120B26	13.250	B	1½	4	6	2½	40.0
27	–	13.730	–	–	–	–	–	–
28	120B28	14.210	B	1½	4	6	2½	44.9
30	120B30	15.170	B	1½	4	6	2½	50.2
32	120B32	16.130	B	1½	4	6	2½	56.0
33	–	16.610	–	–	–	–	–	–
34	–	17.090	–	–	–	–	–	–
35	120B35	17.570	B	1½	4	6	2½	62.4
36	120B36	18.050	B	1½	4	6	2½	66.4
40	120C40	19.960	C	1½	4	6	3¾	92.0
42	120C42	20.920	C	1½	4	6	3¾	98.0
45	120C45	22.350	C	1½	4	6	3¾	99.2
48	120C48	23.790	C	1½	4	6	4	113.0
54	120C54	26.650	C	1½	4	6	4	133.0
60	120C60	29.520	C	1½	5¼	7	4	160.0
70	120C70	34.300	C	1½	5⅝	7½	4½	206.0
80	120C80	39.080	C	1½	5⅝	7½	4½	254.0
90	–	43.850	–	–	–	–	–	–

Single - Type A

Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
A	120A8	1¼	2.4
A	120A9	1¼	3.0
A	120A10	1¼	3.8
A	120A11	1¼	4.8
A	120A12	1¼	5.8
A	120A13	1¼	6.7
A	120A14	1¼	8.0
A	120A15	1¼	9.1
A	120A16	1¼	10.6
A	120A17	1¼	12.6
A	120A18	1¼	13.6
A	120A19	1¼	15.1
A	120A20	1¼	16.9
A	120A21	1¼	18.7
A	120A22	1¼	20.0
A	120A23	1¼	22.1
A	120A24	1¼	24.8
A	120A25	1¼	26.8
A	120A26	1½	28.3
A	120A27	1½	30.9
A	120A28	1½	33.6
A	120A30	1½	39.0
A	120A32	1½	43.9
A	120A33	1½	48.2
A	120A34	1½	50.0
A	120A35	1½	52.0
A	120A36	1½	56.0
A	120A40	1½	71.0
A	120A42	1½	75.0
A	120A45	1½	88.0
A	120A48	1½	103.0
A	120A54	1½	140.0
A	120A60	1½	160.0
A	120A70	1½	216.0
A	120A80	1½	284.0
A	120A90	1½	358.0

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

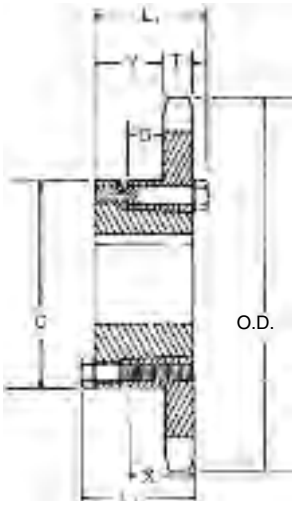
Alteration Charges

See current discount sheet for alteration charges.

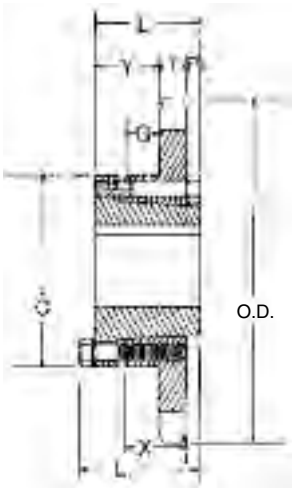
All Steel Stock Sprockets

No. 120 1½" Pitch

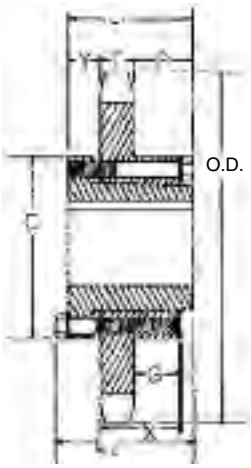
Single - Type QD With Hardened Teeth



QD — TYPE B



QD — TYPE B_1



QD — TYPE C

SABER TOOTH®

No. Teeth	Catalog Number
12	120SF12H
13	120SF13H
14	120SF14H
15	120SF15H
16	120E16H
17	120E17H
18	120E18H
19	120E19H
20	120E20H
21	120E21H
22	120E22H
23	120E23H
24	120E24H
25	120E25H
26	120E26H
28	120E28H
30	120E30H

Single - Type QD

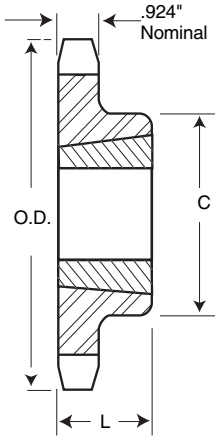
No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	P	G	X	T	With Hub	Rim Only
12	120SF12	SF	6.500	5.796	B	2 15/16	2 1/4	2 1/4	4 5/8	1 7/64	–	21/64	1 1/4	0.924	7.7	4.7
13	120SF13	SF	6.990	6.268	B	2 15/16	2 1/4	2 1/4	4 5/8	1 7/64	–	21/64	1 1/4	0.924	9.1	6.1
14	120SF14	SF	7.470	6.741	B	2 15/16	2 1/4	2 1/4	4 5/8	1 7/64	–	21/64	1 1/4	0.924	10.4	7.4
15	120SF15	SF	7.960	7.215	B	2 15/16	2 1/4	2 1/4	4 5/8	1 7/64	–	21/64	1 1/4	0.924	11.8	8.0
16	120E16	E	8.440	7.689	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	21.2	11.2
17	120E17	E	8.920	8.163	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	23.4	13.4
18	120E18	E	9.410	8.638	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	24.8	14.8
19	120E19	E	9.890	9.113	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	26.5	16.5
20	120E20	E	10.370	9.589	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	29.2	19.2
21	120E21	E	10.850	10.064	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	29.9	19.9
22	120E22	E	11.330	10.540	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	31.6	21.6
23	120E23	E	11.810	11.016	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	33.8	23.8
24	120E24	E	12.290	11.492	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	35.8	25.8
25	120E25	E	12.770	11.968	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	38.1	28.1
26	120E26	E	13.250	12.444	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	39.9	29.9
28	120E28	E	14.210	13.397	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	49.7	34.7
30	120E30	E	15.170	14.350	B1	3 1/2	2 5/8	2 15/16	6	1 9/16	1/8	45/64	1 5/8	0.924	49.4	39.4
32	120F32	F	16.130	15.303	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	62.0	50.5
35	120F35	F	17.570	16.734	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	71.0	59.5
36	120F36	F	18.050	17.211	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	74.9	63.4
40	120F40	F	19.960	19.118	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	88.5	77.0
42	120F42	F	20.920	20.072	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	94.5	83.0
45	120F45	F	22.350	21.503	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	95.5	84.0
48	120F48	F	23.790	22.935	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	103.5	92.0
54	120F54	F	26.650	25.798	C	3 15/16	3 3/8	4	6 5/8	1	1 11/16	1 37/64	2 1/2	0.924	125.0	114.0
60	120J60	J	29.520	28.661	C	4 7/16	4 1/2	5	7 1/4	1 3/16	2 5/16	2 17/64	3 3/16	0.924	159.0	140.0
70	120J70	J	34.300	33.434	C	4 7/16	4 1/2	5	7 1/4	1 3/16	2 5/16	2 17/64	3 3/16	0.924	196.0	177.0
80	120J80	J	39.080	38.207	C	4 7/16	4 1/2	5	7 1/4	1 3/16	2 5/16	2 17/64	3 3/16	0.924	241.0	222.0

No. 120 1½" Pitch

All Steel Stock Sprockets

Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
12	120BTB12	2012	6.498	5.796	2	1¼	3⁹⁄₁₆	B	5.5	1.7
13	120BTB13	2517	6.896	6.268	2½	1¾	4¼	B	6.0	3.5
14	120BTB14	2517	7.472	6.741	2½	1¾	4¼	B	7.0	3.5
15	120BTB15	2517	7.957	7.215	2½	1¾	4¼	B	8.0	3.5
16	120BTB16	3020	8.441	7.689	3	2	5¼	B	10.0	6.5
17	120BTB17	3020	8.924	8.163	3	2	5¼	B	11.0	6.5
18	120BTB18	3020	9.407	8.638	3	2	5¼	B	12.0	6.5
19	120BTB19	3020	9.889	9.113	3	2	5¼	B	14.0	6.5
20	120BTB20	3020	10.371	9.588	3	2	5¼	B	15.5	6.5
21	120BTB21	3020	10.851	10.064	3	2	5¼	B	17.5	6.5
24	120BTB24	3020	12.294	11.492	3	2	5¼	B	23.5	6.5
26	120BTB26	3020	13.254	12.444	3	2	5¼	B	28.5	6.5
30	120BTB30	3020	15.171	14.351	3	2	5¼	B	33.5	6.5
35	120CTB35	3020	17.566	16.734	3	2	5¼	C	52.0	6.5
45	120CTB45	3030	22.351	21.503	3	3	5⅞	C	82.0	9.2
60	120CTB60	3535	29.522	28.661	3½	3½	6½	C	140.0	14.0
70	120CTB70	3535	34.301	33.434	3½	3½	6½	C	175.0	14.0
80	120CTB80	3535	39.078	38.207	3¼	3½	6½	C	220.0	14.0



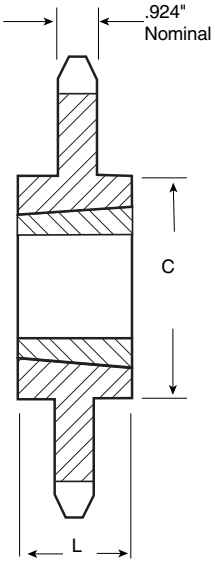
TYPE B

Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
12	120BTB12 H
13	120BTB13 H
14	120BTB14 H
15	120BTB15 H
16	120BTB16 H
17	120BTB17 H
18	120BTB18 H
19	120BTB19 H
20	120BTB20 H
21	120BTB21 H
24	120BTB24 H
26	120BTB26 H
30	120BTB30 H

SABER TOOTH®





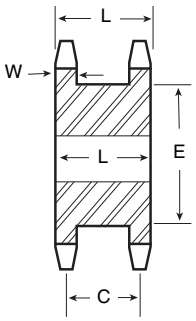
TYPE C

Single - Type C — Steel 1½" Pitch

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
11	120C11	6.010	1⅜	2⅜	3⁹⁄₁₆	3⅜	12.45
12	120C12	6.500	1⅜	2¾	4¹³⁄₁₆	3⅜	14.80
13	120C13	6.990	1⅜	3	4⅝	3⅜	17.15
14	120C14	7.470	1⅜	3¼	4¾	3⅜	19.50

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
15	DS120A15	7.960	7.215	A	1⁷⁄₁₆	3¾	3¹¹⁄₃₂	2⁷⁄₁₆	5³²⁄₆₄	0.924	30.0
16	DS120A16	8.440	7.689	A	1⁷⁄₁₆	4	3¹¹⁄₃₂	2⁷⁄₁₆	6	0.924	34.0
17	DS120A17	8.920	8.163	A	1⁷⁄₁₆	4⁷⁄₁₆	3¹¹⁄₃₂	2⁷⁄₁₆	6³¹⁄₆₄	0.924	37.0
18	DS120A18	9.410	8.638	A	1⁷⁄₁₆	5⅜	3¹¹⁄₃₂	2⁷⁄₁₆	6³¹⁄₆₄	0.924	42.0
19	DS120A19	9.890	9.113	A	1⁷⁄₁₆	5½	3¹¹⁄₃₂	2⁷⁄₁₆	7²⁹⁄₆₄	0.924	47.0
20	DS120A20	10.370	9.589	A	1⁷⁄₁₆	5¹⁵⁄₁₆	3¹¹⁄₃₂	2⁷⁄₁₆	7¹⁵⁄₁₆	0.924	51.0

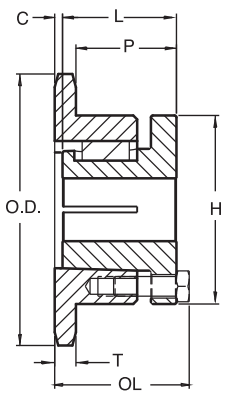


TYPE A

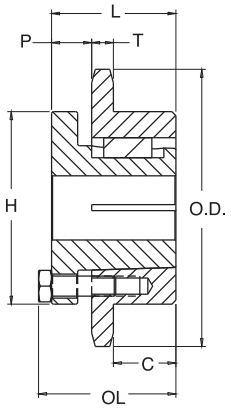
MST® Sprockets

No. 120 1½" Pitch

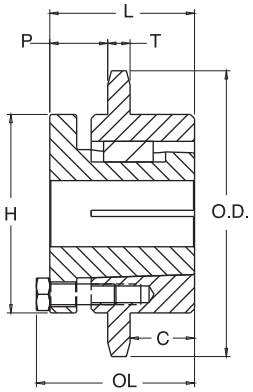




TYPE 4



TYPE 5



TYPE 6

Single - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	120Q11H	Q1	6.010	5.324	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1 9/16	0.924	8.3	4.8
12	120Q12H	Q1	6.500	5.796	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1 9/16	0.924	9.8	6.3
13	120Q13H	Q1	6.990	6.268	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1 9/16	0.924	11.4	7.9
14	120Q14H	Q1	7.470	6.741	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1 9/16	0.924	12.7	9.2
15	120Q15H	Q1	7.960	7.215	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1 9/16	0.924	13.9	10.4
16	120Q16H	Q1	8.440	7.689	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/16	0.924	15.3	11.8
16	120R16H	R1	8.440	7.689	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	19.5	12.0
17	120Q17H	Q1	8.920	8.163	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/16	0.924	16.9	13.4
17	120R17H	R1	8.920	8.163	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	21.2	13.7
18	120Q18H	Q1	9.410	8.638	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-15/16	0.924	19.1	15.6
18	120R18H	R1	9.410	8.638	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	22.5	15.0
19	120R19H	R1	9.890	9.113	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	24.4	16.9
20	120R20H	R1	10.370	9.589	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	26.3	18.8
21	120R21H	R1	10.850	10.064	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	28.2	20.7
22	120R22H	R1	11.330	10.540	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	30.0	22.5
23	120R23H	R1	11.810	11.016	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	31.8	24.3
24	120R24H	R1	12.290	11.492	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	34.6	27.1
25	120R25H	R1	12.770	11.968	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	36.6	29.1
26	120R26H	R1	13.250	12.444	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	40.8	33.3
28	120R28H	R1	14.210	13.397	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	45.5	38.0
30	120R30H	R1	15.170	14.350	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	50.8	43.3
32	120R32	R1	16.130	15.303	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	56.9	49.4
35	120R35	R2	17.570	16.734	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	79.0	68.0
36	120R36	R2	18.050	17.211	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	83.0	72.0
40	120R40	R2	19.960	19.118	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	93.0	82.0
40	120S40	S1	19.960	19.118	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	96.5	83.0
42	120S42	S1	20.920	20.072	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	103.5	90.0
45	120R45	R2	22.350	21.503	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	113.0	102.0
45	120S45	S1	22.350	21.503	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	113.5	100.0
48	120S48	S1	23.790	22.935	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	124.5	111.0
54	120S54	S1	26.650	25.798	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	151.5	138.0
60	120R60	R2	29.520	28.661	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	190.0	179.0
60	120S60	S1	29.520	28.661	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	193.5	180.0
70	120R70	R2	34.300	33.434	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	159.0	148.0
70	120S70	S2	34.300	33.434	5	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-15/16	0.924	186.0	167.0
80	120R80	R2	39.080	38.207	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	302.0	291.0
80	120S80	S2	39.080	38.207	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-15/16	0.924	324.0	305.0

Sprockets with “H” suffix have hardened teeth.

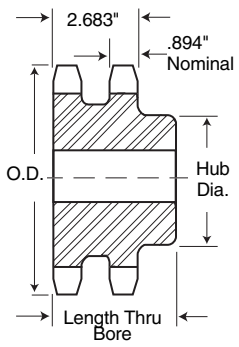
No. 120-2
1½" Pitch

All Steel Stock Sprockets

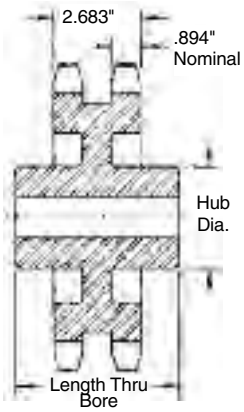
Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	D120B11	6.010	B	1½	2⅜	3⁹⁄₁₆	3¾	13.6
12	D120B12	6.500	B	1½	2¾	4¹⁄₁₆	3¾	17.3
13	D120B13	6.990	B	1½	3	4½	3¾	21.1
14	D120B14	7.470	B	1½	3⅝	5	3¾	25.6
15	D120B15	7.960	B	1½	3½	5¼	3¾	29.9
16	D120B16	8.440	B	1½	3½	5¼	3¾	33.8
17	D120B17	8.920	B	1½	3½	5¼	3¾	36.9
18	D120B18	9.410	B	1½	3½	5¼	3¾	41.9
19	D120B19	9.890	B	1½	3½	5¼	3¾	46.5
20	D120B20	10.370	B	1½	3½	5½	3¾	50.2
21	D120B21	10.850	B	1½	3½	5½	3¾	55.6
22	D120B22	11.330	B	1½	3¹³⁄₁₆	5¾	4	64.0
23	D120B23	11.810	B	1½	4	6½	4	75.0
24	D120B24	12.290	B	1½	4	6½	4	79.0
25	D120B25	12.770	B	1½	4	6½	4	84.0
26	D120B26	13.250	B	1½	4	6½	4	90.0
30	D120B30	15.170	B	1½	4	6½	4	119.0
35	D120C35	17.570	C	1½	5⅜	7½	6	148.0
45	D120C45	22.350	C	1½	5⅜	7½	6	188.0
60	D120C60	29.520	C	1½	6⅜	9½	6¼	307.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

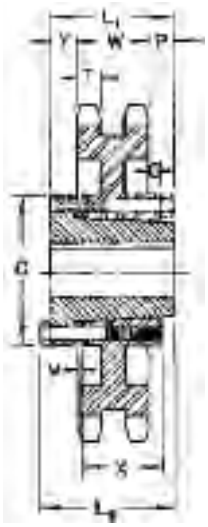


TYPE B

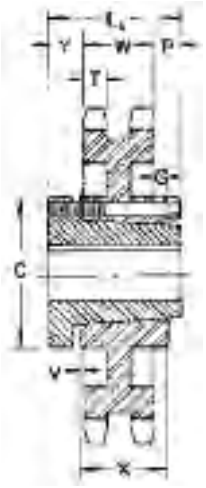


TYPE C





QD — TYPE C_5



QD — TYPE C_6

Alteration Charges

See current discount sheet for alteration charges.

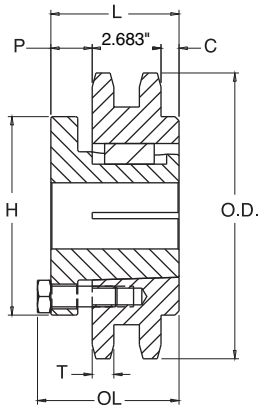
Double - Type QD

No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	V	X	T	W	Weight Lbs. (Approx.) With Hub	Weight Lbs. (Approx.) Rim Only
30	D120J30	J	15.170	14.350	C5	4⁷⁄₁₆	4½	5	7¼	1³⁄₃₂	²⁵⁄₃₂	²¹⁄₃₂	⅝	3³⁄₁₆	.894	2.683	97.5	78.0
35	D120J35	J	17.570	16.734	C5	4⁷⁄₁₆	4½	5	7¼	1³⁄₃₂	²⁵⁄₃₂	²¹⁄₃₂	⅝	3³⁄₁₆	.894	2.683	112.0	93.0
45	D120J45	J	22.350	21.502	C5	4⁷⁄₁₆	4½	5	7¼	1³⁄₃₂	²⁵⁄₃₂	²¹⁄₃₂	⅝	3³⁄₁₆	.894	2.683	157.0	138.0
60	D120M60	M	29.520	28.661	C6	5½	6¾	6¾	9	2⁹⁄₃₂	1²⁵⁄₃₂	1²¹⁄₃₂	²⁷⁄₃₂	5⁵⁄₁₆	.894	2.683	271.0	234.0

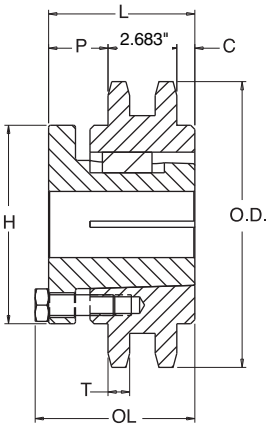
MST® Sprockets

No. 120-2 1½" Pitch





TYPE 15



TYPE 18

Double - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
30	D120S30	S1	15.170	14.350	15	4-1/4	4-3/4	4-3/8	5/8	6-3/8	1-1/16	0.894	118.5	105.0
35	D120S35	S1	17.570	16.734	15	4-1/4	4-3/4	4-3/8	5/8	6-3/8	1-1/16	0.894	161.5	148.0
45	D120S45	S2	22.350	21.503	18	4-3/16	7-1/8	6-3/4	1-27/32	6-3/8	2-7/32	0.894	287.0	268.0
60	D120U60	U0	29.520	28.661	15	5-1/2	5-23/32	5-1/4	1-9/32	8-3/8	19/32	0.894	213.0	183.0

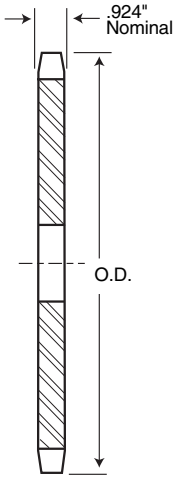
Sprockets with “H” suffix have hardened teeth.

No. 140
1¾" Pitch

All Steel Stock Sprockets







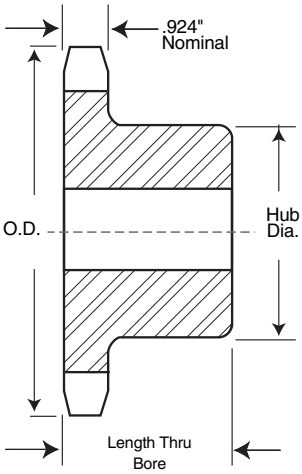
TYPE A

Single - Type B & C

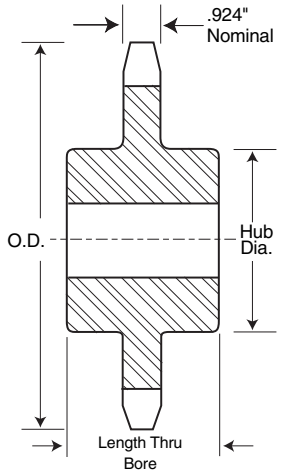
Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
11	140B11	7.010	B	1½	2¾	4¼	2¼	11.3	A	140A11	1½	5.0
12	140B12	7.580	B	1½	3	4½	2¼	13.2	A	140A12	1½	7.8
13	140B13	8.150	B	1½	3 3/16	5 5/16	2⅜	18.9	A	140A13	1½	8.2
14	140B14	8.720	B	1½	3¾	5½	2⅜	20.4	A	140A14	1½	10.0
15	140B15	9.280	B	1½	4¼	6¼	2⅜	25.1	A	140A15	1½	11.0
16	140B16	9.850	B	1½	4¼	6¼	2½	27.9	A	140A16	1½	14.0
17	140B17	10.410	B	1½	4¼	6¼	2½	29.8	A	140A17	1½	16.0
18	140B18	10.980	B	1½	4¼	6¼	2½	32.0	A	140A18	1½	18.0
19	140B19	11.540	B	1½	4¼	6¼	2½	34.1	A	140A19	1½	21.0
20	140B20	12.100	B	1½	4¼	6¼	2½	36.0	A	140A20	1½	23.0
21	140B21	12.660	B	1½	4¼	6¼	2½	38.7	A	140A21	1½	25.0
22	140B22	13.220	B	1½	4¼	6¼	2½	40.6	A	140A22	1½	28.0
23	140B23	13.780	B	1½	4¼	6¼	2½	42.1	A	140A23	1½	30.0
24	140B24	14.340	B	1½	4¼	6¼	2½	46.2	A	140A24	1½	33.0
25	140B25	14.900	B	1½	4¼	6¼	2½	47.8	A	140A25	1½	34.0
26	140B26	15.460	B	1½	4¼	6¼	3	57.2	A	140A26	1½	39.0
27	140B27	16.020	B	1½	4¼	6¼	3	58.5	A	140A27	1½	41.0
28	140B28	16.580	B	1½	4¼	6¼	3	62.2	A	140A28	1½	45.0
30	140B30	17.700	B	1½	4¼	6¼	3	69.8	A	140A30	1½	52.0
31	–	18.260	–	–	–	–	–	–	–	140A31	1½	56.0
32	140B32	18.820	B	1½	4¼	6¼	3	76.3	A	140A32	1½	60.0
35	140C35	20.490	C	1½	5¼	7	4	108.0	A	140A35	1½	73.0
36	–	21.050	–	–	–	–	–	–	A	140A36	1½	77.0
40	140C40	23.290	C	1½	5¼	7	4	121.0	A	140A40	1½	93.0
45	140C45	26.080	C	1½	5¼	7	4	142.0	A	140A45	1½	131.0
48	140C48	27.750	C	1½	5¼	7	4	150.0	A	140A48	1½	134.0
54	140C54	31.100	C	1½	5¼	7	4	177.0	A	140A54	1½	173.0
60	140C60	34.440	C	1½	5¼	7	5	220.0	A	140A60	1½	219.0
70	140C70	40.020	C	1½	5⅜	7½	5	282.0	A	140A70	1½	292.0
80	140C80	45.590	C	1½	5⅜	7½	5	331.0	A	140A80	1½	402.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



TYPE B



TYPE C

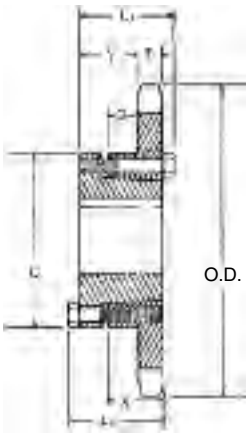
Alteration Charges

See current discount sheet for alteration charges.

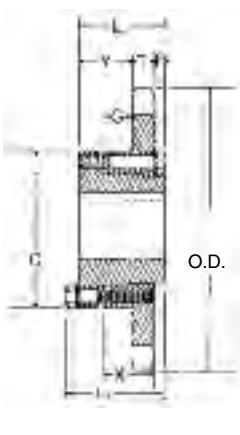
All Steel Stock Sprockets

No. 140 1¾" Pitch

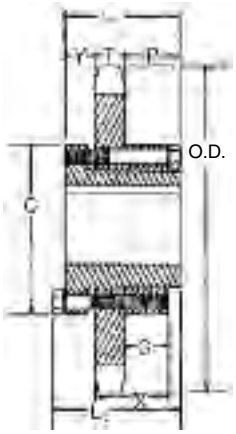
Single - Type QD With Hardened Teeth



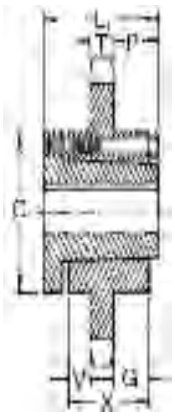
QD — TYPE B



QD — TYPE B_1



QD — TYPE C



QD — TYPE C_1

SABER TOOTH®

No. Teeth	Catalog Number
11	140SF11 H
12	140SF12 H
13	140SF13 H
14	140E14 H
15	140E15 H
16	140E16 H
17	140E17 H
18	140E18 H
19	140E19 H
20	140E20 H
21	140E21 H
22	140E22 H
23	140F23 H
24	140F24 H
25	140F25 H
26	140F26 H
30	140F30 H

Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions									Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	P	G	V	X	T	With Hub	Rim Only
11	140SF11	SF	7.010	6.212	B	2 15/16	2¼	2¼	4⅝	1 5/64	–	21/64	–	1¼	0.924	8.6	5.6
12	140SF12	SF	7.580	6.762	B	2 15/16	2¼	2¼	4⅝	1 5/64	–	21/64	–	1¼	0.924	10.4	7.4
13	140SF13	SF	8.150	7.313	B	2 15/16	2¼	2¼	4⅝	1 5/64	–	21/64	–	1¼	0.924	11.9	8.9
14	140E14	E	8.720	7.864	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	21.6	11.6
15	140E15	E	9.280	8.417	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	24.2	14.2
16	140E16	E	9.850	8.970	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	25.9	15.9
17	140E17	E	10.410	9.524	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	28.0	18.0
18	140E18	E	10.980	10.078	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	29.6	19.6
19	140E19	E	11.540	10.632	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	32.0	22.0
20	140E20	E	12.100	11.187	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	34.6	24.6
21	140E21	E	12.660	11.742	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	37.6	27.6
22	140E22	E	13.220	12.297	B1	3½	2⅝	2 15/16	6	1 9/16	⅛	45/64	–	1⅝	0.924	39.5	29.5
23	140F23	F	13.780	12.852	B1	3 15/16	3⅜	4	6⅝	2 9/16	⅛	1 37/64	–	2½	0.924	48.0	36.4
24	140F24	F	14.340	13.407	B1	3 15/16	3⅜	4	6⅝	2 9/16	⅛	1 37/64	–	2½	0.924	51.6	40.1
25	140F25	F	14.900	13.963	B1	3 15/16	3⅜	4	6⅝	2 9/16	⅛	1 37/64	–	2½	0.924	53.8	42.3
26	140F26	F	15.460	14.518	B1	3 15/16	3⅜	4	6⅝	2 9/16	⅛	1 37/64	–	2½	0.924	58.0	46.5
30	140F30	F	17.700	16.742	B1	3 15/16	3⅜	4	6⅝	2 9/16	⅛	1 37/64	–	2½	0.924	72.0	60.4
35	140F35	F	20.490	19.523	C	3 15/16	3⅜	4	6⅝	1	1 11/16	1 37/64	–	2½	0.924	89.5	78.0
36	140F36	F	21.050	20.079	C	3 15/16	3⅜	4	6⅝	1	1 11/16	1 37/64	–	2½	0.924	95.5	84.0
40	140J40	J	23.290	22.305	C	4 7/16	4½	5	7¼	1 3/16	2⅜	2 17/64	–	3 3/16	0.924	117.0	98.0
45	140J45	J	26.080	25.087	C	4 7/16	4½	5	7¼	1 3/16	2⅜	2 17/64	–	3 3/16	0.924	139.0	120.0
48	140J48	J	27.750	26.757	C	4 7/16	4½	5	7¼	1 3/16	2⅜	2 17/64	–	3 3/16	0.924	148.0	129.0
54	140J54	J	31.100	30.097	C	4 7/16	4½	5	7¼	1 3/16	2⅜	2 17/64	–	3 3/16	0.924	168.0	149.0
60	140J60	J	34.440	33.438	C	4 7/16	4½	5	7¼	1 3/16	2⅜	2 17/64	–	3 3/16	0.924	205.0	186.0
70	140M70	M	40.020	39.006	C1	5½	6¾	6¾	9	2 29/32	2 29/32	2 17/32	1 13/32	5 3/16	0.924	301.0	264.0
80	140M80	M	45.590	44.575	C1	5½	6¾	6¾	9	2 29/32	2 29/32	2 17/32	1 13/32	5 3/16	0.924	385.0	348.0

No. 140
1¾" Pitch

All Steel
Stock Sprockets

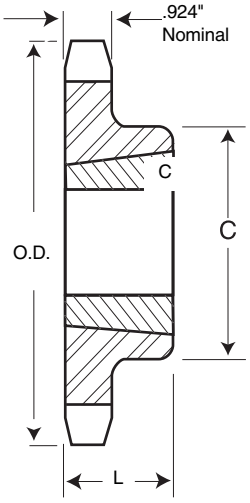
Martin

Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
12	140BTB12 H
13	140BTB13 H
14	140BTB14 H
15	140BTB15 H
16	140BTB16 H
17	140BTB17 H
18	140BTB18 H
19	140BTB19 H
21	140BTB21 H
26	140BTB26 H

SABER TOOTH®

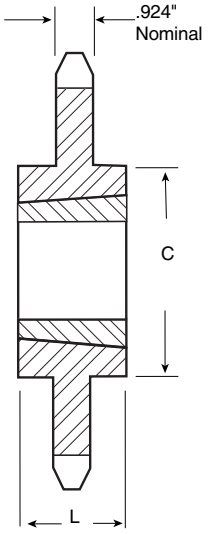




TYPE B

Single - Taper Bushed

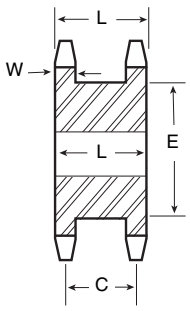
No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
12	140BTB12	2517	7.581	6.762	2½	1¾	4¼	B	7.0	3.5
13	140BTB13	3020	8.150	7.313	3	2	5¼	B	8.0	6.5
14	140BTB14	3020	8.718	7.864	3	2	5¼	B	10.0	6.5
15	140BTB15	3020	9.283	8.417	3	2	5¼	B	12.0	6.5
16	140BTB16	3020	9.848	8.970	3	2	5¼	B	14.0	6.5
17	140BTB17	3020	10.411	9.524	3	2	5¼	B	16.0	6.5
18	140BTB18	3020	10.975	10.078	3	2	5¼	B	18.0	6.5
19	140BTB19	3020	11.537	10.632	3	2	5¼	B	20.0	6.5
21	140BTB21	3020	12.660	11.742	3	2	5¼	B	24.0	6.5
26	140BTB26	3020	15.463	14.518	3	2	5¼	B	40.0	6.5
35	140CTB35	3535	20.494	19.523	3½	3½	6½	C	78.0	14.0
45	140CTB45	4040	26.076	25.087	4	4	7¾	C	118.0	22.0
60	140CTB60	4040	34.442	33.438	4	4	7¾	C	188.0	22.0
70	140CTB70	4040	40.017	39.006	4	4	7¾	C	241.0	22.0



TYPE C

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
14	DS140A14	8.720	7.864	A	1 7/16	3⅞	3 39/64	2 11/16	5⅞	0.924	35.0
15	DS140A15	9.280	8.417	A	1 7/16	4 7/16	3 39/64	2 11/16	6 29/64	0.924	43.0
16	DS140A16	9.850	8.970	A	1 7/16	5¼	3 39/64	2 11/16	7 1/64	0.924	49.0
17	DS140A17	10.410	9.524	A	1 7/16	5 5/16	3 39/64	2 11/16	7 37/64	0.924	58.0
18	DS140A18	10.980	10.078	A	1 7/16	6⅛	3 39/64	2 11/16	8 5/64	0.924	66.0

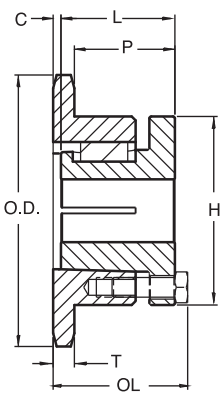


TYPE A

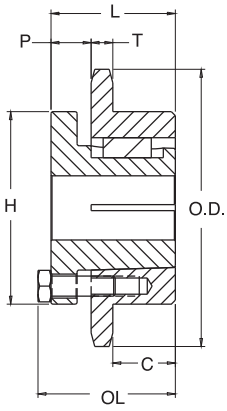
MST® Sprockets

No. 140 1¾" Pitch

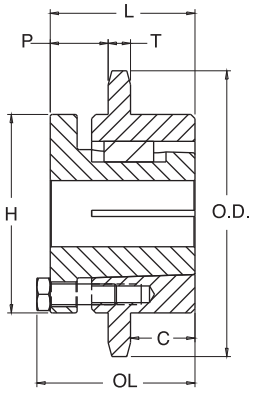




TYPE 4



TYPE 5



TYPE 6

Single - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	140Q11H	Q1	7.010	6.212	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-9/16	0.924	9.9	6.4
12	140Q12H	Q1	7.580	6.762	4	2-11/16	2-25/32	2-1/2	–	4-1/8	1-9/16	0.924	12.5	9.0
13	140R13H	R1	8.150	7.313	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	18.6	11.1
14	140R14H	R1	8.720	7.864	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	20.1	12.6
15	140R15H	R1	9.280	8.417	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-1/16	0.924	22.2	14.7
16	140R16H	R1	9.850	8.970	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-1/16	0.924	24.0	16.5
17	140R17H	R1	10.410	9.524	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	26.0	18.5
18	140R18H	R1	10.980	10.078	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	28.0	20.5
19	140R19H	R1	11.540	10.632	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	30.5	23.0
20	140R20H	R1	12.100	11.187	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	32.9	25.4
21	140R21H	R1	12.660	11.742	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-15/16	0.924	35.3	27.8
22	140R22H	R1	13.220	12.297	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	40.0	32.5
23	140R23H	R1	13.780	12.852	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	43.5	36.0
24	140R24H	R1	14.340	13.407	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	45.1	37.6
25	140R25H	R1	14.900	13.963	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	47.8	40.3
26	140R26H	R1	15.460	14.518	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	51.5	44.0
30	140R30H	R2	17.700	16.742	5	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	79.0	68.0
35	140R35	R2	20.490	19.523	6	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	99.0	88.0
36	140R36	R2	21.050	20.079	6	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	101.0	90.0
36	140S36	S1	21.050	20.079	5	4-1/4	43/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	102.5	89.0
40	140R40	R2	23.290	22.305	6	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	120.0	109.0
40	140S40	S1	23.290	22.305	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	120.5	107.0
45	140S45	S1	26.080	25.087	5	4-1/4	4-3/4	43/8	2-3/8	6-3/8	1-1/16	0.924	145.5	132.0
48	140S48	S2	27.750	26.757	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	188.0	169.0
54	140S54	S2	31.100	30.097	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	227.0	208.0
60	140S60	S2	34.440	33.438	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	249.0	230.0
70	140S70	S2	40.020	39.006	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	330.0	311.0
80	140S80	S2	45.590	44.575	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	261.0	242.0

Sprockets with "H" suffix have hardened teeth.

No. 140-2
1¾" Pitch

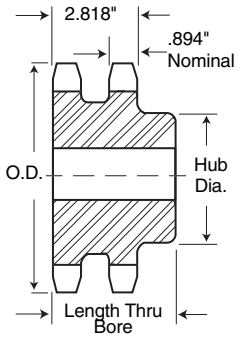
All Steel Stock Sprockets

Double - Type B & C

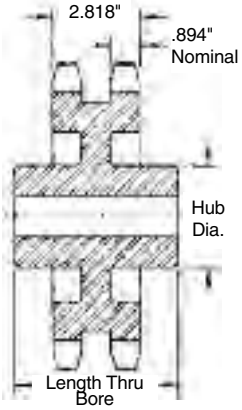
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
13	D140B13	8.150	B	1⅞	3 5/16	5	3¾	29.0
14	D140B14	8.720	B	1⅞	3¾	5½	3¾	34.8
15	D140B15	9.280	B	1⅞	4½	6½	3¾	42.5
16	D140B16	9.850	B	1⅞	5¼	7	4	48.1
17	D140B17	10.410	B	1⅞	5¼	7	4	57.5
18	D140B18	10.980	B	1⅞	5¼	7	4	65.6
19	D140B19	11.540	B	1¾	5¼	7	4	72.0
20	D140B20	12.100	B	1¾	5¼	7	4	76.0
21	D140B21	12.660	B	1¾	5¼	7	4	82.0
22	D140B22	13.220	B	1¾	5¼	7	4	94.0
23	D140B23	13.780	B	1¾	5¼	7	4	100.0
24	D140B24	14.340	B	1¾	5¼	7	4	104.0
25	D140B25	14.900	B	1¾	5¼	7	4	120.0
26	D140B26	15.460	B	1¾	5¼	7	4	128.0
35	D140C35	20.490	C	1½	5⅜	7½	6	180.0
45	D140C45	26.080	C	1½	5⅜	7½	6	232.0
60	D140C60	34.440	C	1½	6⅜	9½	6¼	372.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

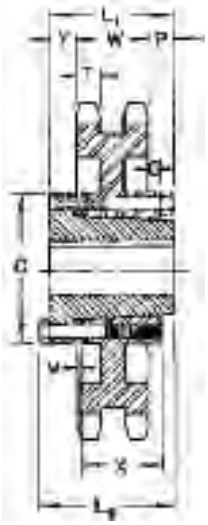




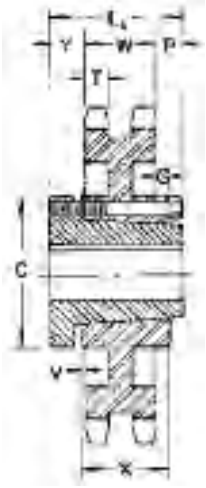
TYPE B



TYPE C



QD — TYPE C_5



QD — TYPE C_6

Alteration Charges

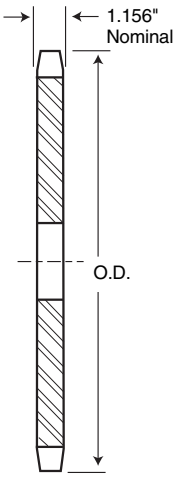
See current discount sheet for alteration charges.

Double - Type QD

No. Teeth	Catalog Number	Bushing	Diameters Outside Diameter	Diameters Pitch Diameter	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	V	X	T	W	Weight Lbs. (Approx.) With Hub	Rim Only
35	D140J35	J	20.490	19.523	C5	4 7/16	4½	5	7¼	31/32	23/32	19/32	7/32	3 3/16	0.894	2.818	137	128
45	D140J45	J	26.080	25.087	C5	4 7/16	4½	5	7¼	31/32	23/32	19/32	7/32	3 3/16	0.894	2.818	195	176
60	D140M60	M	34.440	33.438	C6	5½	6¾	6¾	9	2 7/32	1 23/32	1 19/32	25/32	5 5/16	0.894	2.818	339	302

All Steel Stock Sprockets

No. 160 2" Pitch



TYPE A



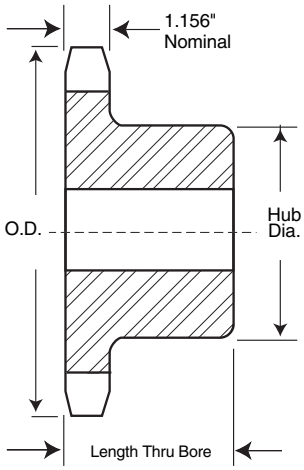
Alteration Charges

See current discount sheet for alteration charges.

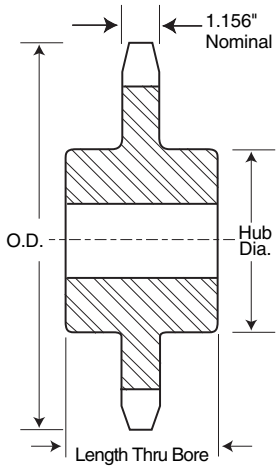
Single - Type B & C

Single - Type A — Plate

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
8	160B8	6.030	B	1½	1⅞	3¼	2¼	8.0	A	160A8	1½	5.0
9	160B9	6.700	B	1½	2⅛	3⅝	2¼	10.0	A	160A9	1½	7.0
10	160B10	7.360	B	1½	2¾	4⅛	2¼	12.0	A	160A10	1½	8.0
11	160B11	8.010	B	1½	3¼	4¾	2½	17.0	A	160A11	1½	10.0
12	160B12	8.660	B	1½	3¾	5½	2½	21.0	A	160A12	1½	12.0
13	160B13	9.310	B	1½	4	6	2¾	28.0	A	160A13	1½	16.0
14	160B14	9.960	B	1½	4½	6½	2¾	32.0	A	160A14	1½	17.0
15	160B15	10.610	B	1½	5¼	7	2¾	37.0	A	160A15	1½	21.0
16	160B16	11.260	B	1½	5¼	7	2¾	41.0	A	160A16	1½	24.0
17	160B17	11.900	B	1½	5¼	7	2¾	45.0	A	160A17	1½	27.0
18	160B18	12.540	B	1½	5¼	7	2¾	48.0	A	160A18	1½	30.0
19	160B19	13.190	B	1½	5¼	7	2¾	52.0	A	160A19	1½	34.0
20	160B20	13.830	B	1½	5¼	7	2¾	56.0	A	160A20	1½	38.0
21	160B21	14.470	B	1½	5¼	7	2¾	59.0	A	160A21	1½	42.0
22	160B22	15.110	B	1½	5¼	7	2¾	65.0	A	160A22	1½	46.0
23	160B23	15.750	B	1½	5¼	7	2¾	68.0	A	160A23	1½	50.0
24	160B24	16.390	B	1½	5¼	7	3	77.0	A	160A24	1½	56.0
25	160B25	17.030	B	1½	5¼	7	3	81.0	A	160A25	1½	61.0
26	160B26	17.670	B	1½	5¼	7	3	86.0	A	160A26	1½	65.0
27	160B27	18.310	B	1½	5¼	7	3	91.0	A	160A27	1½	71.0
28	160B28	18.950	B	1½	5¼	7	3	98.0	A	160A28	1½	77.0
30	160B30	20.230	B	1½	5¼	7	3	108.0	A	160A30	1½	90.0
35	160C35	23.420	C	1½	5½	8	4½	154.0	A	160A35	1½	121.0
40	160C40	26.610	C	1½	5½	8	4½	196.0	A	160A40	1½	138.0
45	160C45	29.800	C	1½	5½	8	5	234.0	A	160A45	1½	204.0
54	160C54	35.540	C	1½	5½	8	5	276.0	A	160A54	1½	294.0
60	160C60	39.360	C	1½	5½	8	5	329.0	A	160A60	1½	366.0
70	160C70	45.730	C	1½	5½	8	5	446.0	A	160A70	1½	507.0
80	160C80	52.100	C	1½	5½	8	6	612.0	A	160A80	1½	656.0



TYPE B



TYPE C

Single - Type C — Steel 2" Pitch

No. Teeth	Catalog Number	Outside Diameter	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length	Weight Lbs. (Approx.)
11	160C11	8.010	1½"	3¼"	4½"	4⅛"	21.0
12	160C12	8.660	1½"	3¾"	5½"	4⅛"	26.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

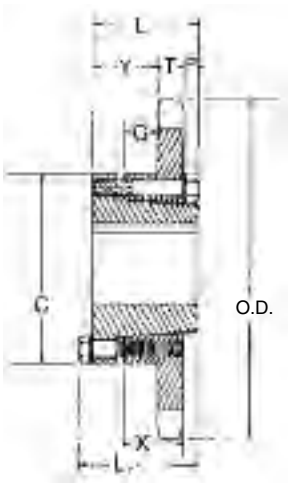
No. 160 2" Pitch

All Steel Stock Sprockets

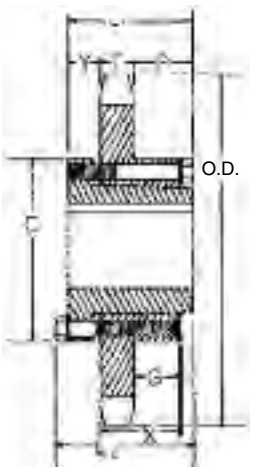
Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
12	160E12 H
13	160E13 H
14	160E14 H
15	160F15 H
16	160F16 H
17	160F17 H
18	160F18 H
19	160F19 H
20	160F20 H
21	160F21 H
22	160F22 H
23	160F23 H
24	160F24 H
25	160F25 H
26	160J26 H
28	160J28 H
30	160J30 H

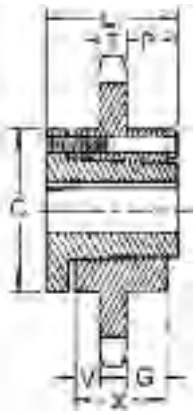
SABER TOOTH®



QD — TYPE B_1



QD — TYPE C



QD — TYPE C_1

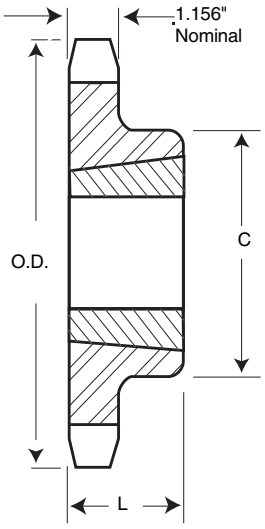


Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions									Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	P	G	V	X	T	With Hub	Rim Only
12	160E12	E	8.660	7.727	B1	3½	2⅝	2 15/16	6	1 5/16	⅛	15/32	–	1⅝	1.156	21.0	11.0
13	160E13	E	9.310	8.357	B1	3½	2⅝	2 15/16	6	1 5/16	⅛	15/32	–	1⅝	1.156	24.0	14.0
14	160E14	E	9.960	8.988	B1	3½	2⅝	2 15/16	6	1 5/16	⅛	15/32	–	1⅝	1.156	26.0	16.0
15	160F15	F	10.610	9.620	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	35.5	24.0
16	160F16	F	11.260	10.252	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	38.5	27.0
17	160F17	F	11.900	10.885	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	42.5	31.0
18	160F18	F	12.540	11.518	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	46.5	35.0
19	160F19	F	13.190	12.151	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	49.5	38.0
20	160F20	F	13.830	12.785	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	53.5	42.0
21	160F21	F	14.740	13.419	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	56.5	45.0
22	160F22	F	15.110	14.053	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	62.5	51.0
23	160F23	F	15.750	14.688	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	66.5	55.0
24	160F24	F	16.390	15.323	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	70.5	59.0
25	160F25	F	17.030	15.958	B1	3 15/16	3⅜	4	6⅝	2 5/16	⅛	1 11/32	–	2½	1.156	75.5	64.0
26	160J26	J	17.670	16.593	C	4 7/16	4½	5	7¼	1 3/16	2⅛	2 1/32	–	3 3/16	1.156	92.5	74.0
28	160J28	J	18.950	17.863	C	4 7/16	4½	5	7¼	1 3/16	2⅛	2 1/32	–	3 3/16	1.156	103.0	84.0
30	160J30	J	20.230	19.134	C	4 7/16	4½	5	7¼	1 3/16	2⅛	2 1/32	–	3 3/16	1.156	115.0	96.0
35	160J35	J	23.420	22.312	C	4 7/16	4½	5	7¼	1 3/16	2⅛	2 1/32	–	3 3/16	1.156	135.0	116.0
40	160M40	M	26.610	25.491	C1	5½	6¾	6¾	9	2 1/16	2 1/16	2 13/32	1 9/32	5 3/16	1.156	21.0	174.0
45	160M45	M	29.800	28.671	C1	5½	6¾	6¾	9	2 1/16	2 1/16	2 13/32	1 9/32	5 3/16	1.156	245.0	208.0
54	160M54	M	35.540	34.397	C1	5½	6¾	6¾	9	2 1/16	2 1/16	2 13/32	1 9/32	5 3/16	1.156	299.0	262.0
60	160M60	M	39.360	38.215	C1	5½	6¾	6¾	9	2 1/16	2 1/16	2 13/32	1 9/32	5 3/16	1.156	347.0	310.0
70	160M70	M	45.730	44.578	C1	5½	6¾	6¾	9	2 1/16	2 1/16	2 13/32	1 9/32	5 3/16	1.156	468.0	431.0
80	160M80	M	52.100	50.943	C1	5½	6¾	6¾	9	2 1/16	2 1/16	2 13/32	1 9/32	5 3/16	1.156	567.0	530.0

All Steel Stock Sprockets

No. 160 2" Pitch



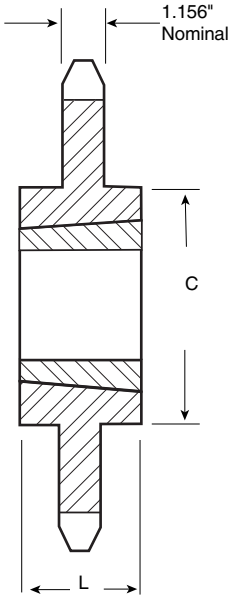
TYPE B

Single - Taper Bushed with Hardened Teeth



SABER TOOTH®

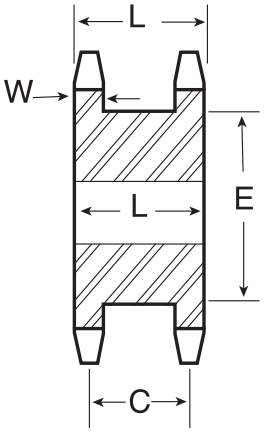
No. Teeth	Catalog Number
11	160BTB11H
12	160BTB12H
13	160BTB13H
14	160BTB14H
15	160BTB15H
16	160BTB16H
17	160BTB17H
18	160BTB18H
19	160BTB19H
21	160BTB21H
26	160BTB26H



TYPE C

Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
11	160BTB11	2517	8.011	7.099	2½	1¾	4¼	B	9.0	3.5
12	160BTB12	3020	8.664	7.727	3	2	5¼	B	11.0	6.5
13	160BTB13	3020	9.314	8.357	3	2	5¼	B	13.0	6.5
14	160BTB14	3020	9.963	8.988	3	2	5¼	B	16.0	6.5
15	160BTB15	3535	10.609	9.620	3½	3½	6½	B	25.0	14.0
16	160BTB16	3535	11.255	10.252	3½	3½	6½	B	28.0	14.0
17	160BTB17	3535	11.899	10.885	3½	3½	6½	B	32.0	14.0
18	160BTB18	3535	12.543	11.518	3½	3½	6½	B	35.0	14.0
19	160BTB19	3535	13.185	12.151	3½	3½	6½	B	39.0	14.0
21	160BTB21	3535	14.470	13.419	3½	3½	6½	B	48.0	14.0
26	160BTB26	3535	17.671	16.593	3½	3½	6½	B	68.0	14.0
35	160CTB35	4040	23.422	22.312	4	4	7¾	C	118.0	14.0
45	160CTB45	4040	29.802	28.671	4	4	7¾	C	186.0	22.0
60	160CTB60	4545	39.362	38.215	4½	4½	8¾	C	292.0	30.0



TYPE A

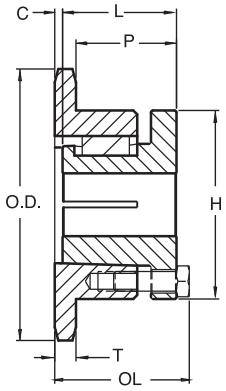
Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
15	DS160A15	10.609	9.620	A	1 11/16	5½	4¼	3 3/32	7⅜	1.156	69.0
16	DS160A16	11.255	10.252	A	1 11/16	6	4¼	3 3/32	8 1/64	1.156	75.0
17	DS160A17	11.899	10.885	A	1 11/16	6½	4¼	3 3/32	8 21/32	1.156	92.0
18	DS160A18	12.543	11.518	A	1 11/16	6 13/16	4¼	3 3/32	9 5/16	1.156	97.0

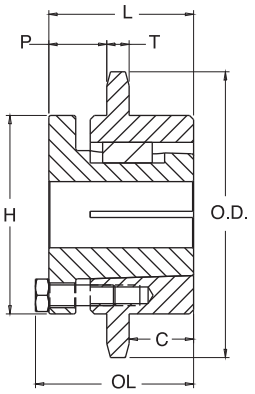
No. 160
2" Pitch

MST®
Sprockets





TYPE 4



TYPE 6

Single - MST® Sprockets

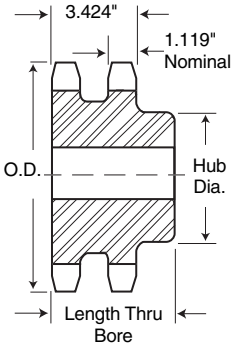
No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	160R11H	R1	8.010	7.099	4	3-3/4	3-13/32	2-7/8	1/4	5-3/8	1-31/32	1.156	18.3	10.8
12	160R12H	R1	8.660	7.727	4	3-3/4	3-13/32	2-7/8	1/4	5-3/8	1-31/32	1.156	21.7	14.2
13	160R13H	R1	9.310	8.357	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-23/32	1.156	23.0	15.5
14	160R14H	R1	9.960	8.988	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-23/32	1.156	26.0	18.5
15	160R15H	R1	10.610	9.620	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-23/32	1.156	29.1	21.6
16	160R16H	R1	11.260	10.252	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-23/32	1.156	32.5	25.0
17	160R17H	R1	11.900	10.885	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-23/32	1.156	35.5	28.0
18	160R18H	R1	12.540	11.518	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-23/32	1.156	39.4	31.9
19	160R19H	R1	13.190	12.151	4	3-3/4	3-5/32	2-7/8	–	5-3/8	1-23/32	1.156	43.4	35.9
20	160R20H	R2	13.830	12.785	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	62.0	51.0
21	160R21H	R2	14.470	13.419	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	67.0	56.0
22	160R22H	R2	15.110	14.053	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	71.0	60.0
23	160R23H	R2	15.750	14.688	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	76.0	65.0
24	160R24H	R2	16.390	15.323	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	82.5	71.5
25	160R25H	R2	17.030	15.958	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	85.0	74.0
26	160R26H	R2	17.670	16.593	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	90.0	79.0
26	160S26H	S2	17.670	16.593	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	98.0	79.0
28	160R28H	R2	18.950	17.863	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	110.8	99.8
28	160S28H	S2	19.950	17.863	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	118.8	99.8
30	160R30H	R2	20.230	19.134	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	117.0	106.0
30	160S30H	S2	20.230	19.134	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	134.0	115.0
35	160S35	S2	23.420	22.312	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	169.0	150.0
40	160S40	S2	26.610	25.491	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	184.0	165.0
45	160S45	S2	29.800	28.671	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	223.0	204.0
60	160U60	U0	39.360	38.215	6	5-1/2	5 25/32	5-1/4	1-15/16	8-3/8	1-21/32	1.156	338.0	308.0
70	160U70	U0	45.730	44.578	6	5-1/2	5 25/32	5-1/4	1-15/16	8-3/8	1-21/32	1.156	384.0	354.0
80	160S80	S2	52.100	50.943	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	–	–
80	160U80	U1	52.100	50.943	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2 19/32	1.156	434.0	394.0

Sprockets with “H” suffix have hardened teeth.

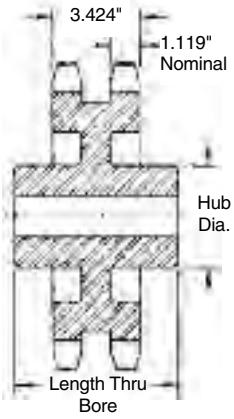
All Steel Stock Sprockets

No. 160-2 2" Pitch





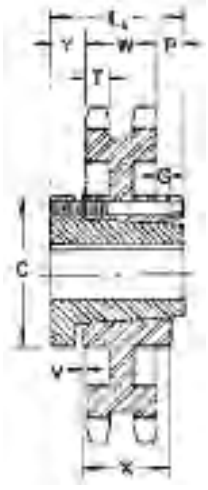
TYPE B



TYPE C

Alteration Charges

See current discount sheet for alteration charges.



QD — TYPE C_6

Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (App.)
				Stock	Rec. Max.	Dia.	Length Thru	
13	D160B13	9.310	B	2	4	6	4¾	48
14	D160B14	9.960	B	2	4¾	6¾	4¾	58
15	D160B15	10.610	B	2	5¼	7	4¾	68
16	D160B16	11.260	B	2	5¼	7	4¾	75
17	D160B17	11.900	B	2	5¼	7	4¾	91
18	D160B18	12.540	B	2	5¼	7	4¾	96
19	D160B19	13.190	B	2	5¼	7	4¾	107
20	D160B20	13.830	B	2	5¼	7	4¾	119
21	D160B21	14.470	B	2	5⅜	7½	4¾	130
22	D160B22	15.110	B	2	5⅜	7½	4¾	141
23	D160B23	15.750	B	2	5⅜	7½	4¾	157
24	D160B24	16.390	B	2	5⅜	7½	4¾	171
25	D160B25	17.030	B	2	5⅜	7½	4¾	187
26	D160B26	17.670	B	2	5⅜	7½	4¾	201
35	D160C35	23.420	C	1½	6¾	9½	6⅝	306
45	D160C45	29.800	C	1½	7	10	7⅛	431
60	D160C60	39.360	C	1½	7	10	7⅛	564

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

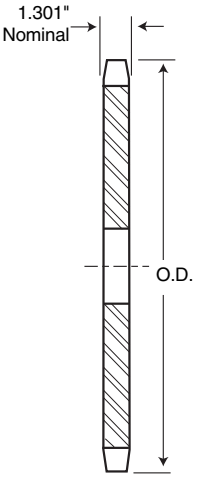
Double - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L_1	L_2	C	Y	P	G	V	X	T	W	With Hub	Rim Only
35	D160M35	M	23.420	22.312	C6	5½	6¾	6¾	9	2 3/64	1 9/32	1 5/32	39/64	5 5/16	1.119	3.424	259	222
45	D160N45	N	29.800	28.671	C6	6	8⅛	8⅛	10	2 11/32	2 23/64	2 5/32	21/32	6¼	1.119	3.424	377	340
60	D160N60	N	39.360	38.215	C6	6	8⅛	8⅛	10	2 11/32	2 23/64	2 5/32	21/32	6¼	1.119	3.424	509	472

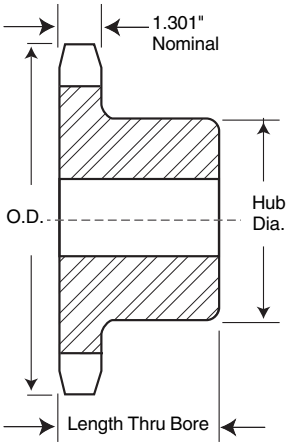
No. 180
2¼" Pitch

All Steel
Stock Sprockets

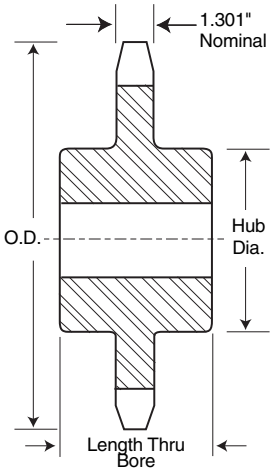




TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
11	180B11	9.010	B	1½	3⅜	5½	3	29	A	180A11	1½	14
12	180B12	9.750	B	1½	4	6	3	32	A	180A12	1½	16
13	180B13	10.480	B	1½	4⅝	6¾	3⅛	40	A	180A13	1½	20
14	180B14	11.210	B	1½	5¼	7	3⅛	44	A	180A14	1½	24
15	180B15	11.930	B	1½	5¼	7	3⅛	48	A	180A15	1½	28
16	180B16	12.660	B	1½	5¼	7	3⅛	52	A	180A16	1½	32
17	180B17	13.390	B	1½	5¼	7	3⅛	58	A	180A17	1½	37
18	180B18	14.110	B	1½	5¼	7	3⅛	63	A	180A18	1½	43
19	180B19	14.830	B	1½	5⅜	7½	3⅜	74	A	180A19	1½	47
20	180B20	15.560	B	1½	5⅜	7½	3⅜	81	A	180A20	1½	53
21	180B21	16.280	B	1½	5⅜	7½	3⅜	83	A	180A21	1½	57
22	180B22	17.000	B	1½	5⅜	7½	3⅜	92	A	180A22	1½	62
23	180B23	17.720	B	1½	5⅜	7½	3⅜	99	A	180A23	1½	69
24	180B24	18.440	B	1½	5⅜	7½	3⅜	105	A	180A24	1½	77
25	180B25	19.160	B	1½	5⅜	7½	3⅜	113	A	180A25	1½	84
28	180B28	21.320	B	1½	5½	8	3½	135	A	180A28	1½	104
30	180C30	22.760	C	1½	5¾	8½	4⅜	180	A	180A30	1½	120
35	180C35	26.350	C	1½	5¾	8½	4⅜	222	A	180A35	1½	172
40	180C40	29.940	C	1½	5¾	8½	4⅜	270	A	180A40	1½	229
45	180C45	33.530	C	1½	6	9	5	315	A	180A45	1½	284
54	180C54	39.980	C	1½	6	9	5	477	A	180A54	1½	420
60	180C60	44.280	C	1½	6½	9½	5⅜	489	A	180A60	1½	505

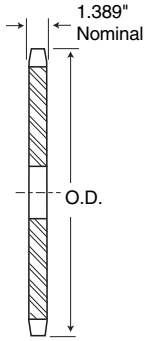
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Alteration Charges

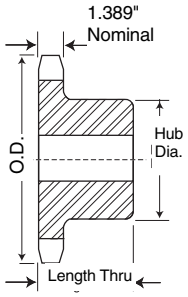
See current discount sheet for alteration charges.

All Steel Stock Sprockets

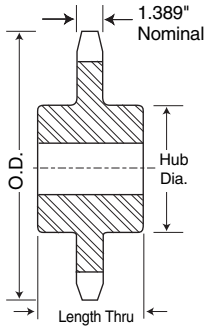
No. 200 2½" Pitch



TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Diameter	Hub (inches) Length Thru	Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
10	200B10	9.200	B	1½	3¾	5½	3	26	A	200A10	1½	16
11	200B11	10.020	B	1½	4	6	3	33	A	200A11	1½	20
12	200B12	10.830	B	1½	4½	6½	3	37	A	200A12	1½	24
13	200B13	11.640	B	1½	5¼	7	3	46	A	200A13	1½	30
14	200B14	12.460	B	1½	5⅜	7½	3½	59	A	200A14	1½	32
15	200B15	13.260	B	1½	5⅜	7½	3½	64	A	200A15	1½	40
16	200B16	14.070	B	1½	5⅜	7½	3½	72	A	200A16	1½	46
17	200B17	14.870	B	1½	5⅜	7½	3½	76	A	200A17	1½	51
18	200B18	15.680	B	1½	5⅜	7½	3½	84	A	200A18	1½	57
19	200B19	16.480	B	1½	5⅜	7½	3½	91	A	200A19	1½	65
20	200B20	17.290	B	1½	5⅜	7½	3½	98	A	200A20	1½	72
21	200B21	18.090	B	1½	5⅜	7½	3½	106	A	200A21	1½	82
22	200B22	18.890	B	1½	5¾	8½	4	131	A	200A22	1½	88
23	200B23	19.690	B	1½	5¾	8½	4	136	A	200A23	1½	95
24	200B24	20.490	B	1½	5¾	8½	4	142	A	200A24	1½	105
25	200B25	21.290	B	1½	5¾	8½	4	153	A	200A25	1½	113
26	200C26	22.090	C	1½	5¾	8½	4½	178	A	200A26	1½	124
28	200C28	23.690	C	1½	5¾	8½	4½	195	A	200A28	1½	144
30	200C30	25.290	C	1½	5¾	8½	4½	212	A	200A30	1½	167
32	200C32	26.880	C	1½	5¾	8½	4½	220	A	200A32	1½	195
35	200C35	29.280	C	1½	5¾	8½	4½	254	A	200A35	1½	227
40	200C40	33.270	C	1½	6	9	5	320	A	200A40	1½	301
45	200C45	37.250	C	1½	6	9	5	364	A	200A45	1½	390
54	200C54	44.420	C	1½	6½	9½	5½	512	A	200A54	1½	555
60	200C60	49.200	C	1½	6½	9½	5½	654	A	200A60	1½	692

Alteration Charges

See current discount sheet for alteration charges.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

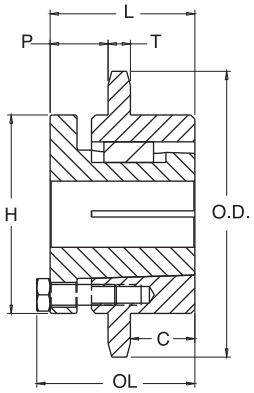
Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters Outside Dia.	Diameters Pitch Dia.	Type	Max. Bore	Dimensions L_1	L_2	C	Y	P	G	V	X	T	Weight Lbs. (Approx.) With Hub	Rim Only
12	200F12	F	10.830	9.660	C	3 15/16	3⅝	4	6⅝	1	1 5/16	1⅛	–	2½	1.389	25.5	24.0
13	200J13	J	11.640	10.447	C	4 7/16	4½	5	7¼	1 3/16	2	1 13/16	–	3 3/16	1.389	50.5	32.0
14	200J14	J	12.460	11.235	C	4 7/16	4½	5	7¼	1 3/16	2	1 13/16	–	3 3/16	1.389	57.5	39.0
15	200J15	J	13.260	12.025	C	4 7/16	4½	5	7¼	1 3/16	2	1 13/16	–	3 3/16	1.389	62.5	44.0
16	200J16	J	14.070	12.815	C	4 7/16	4½	5	7¼	1 3/16	2	1 13/16	–	3 3/16	1.389	68.5	50.0
17	200M17	M	14.870	13.605	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	113.0	76.0
18	200M18	M	15.680	14.397	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	119.0	82.0
19	200M19	M	16.480	15.910	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	125.0	88.0
20	200M20	M	17.290	15.982	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	134.0	97.0
21	200M21	M	18.090	16.775	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	140.0	103.0
22	200M22	M	18.890	17.567	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	149.0	112.0
23	200M23	M	19.690	18.360	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	157.0	120.0
24	200M24	M	20.490	19.152	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	168.0	131.0
25	200M25	M	21.290	19.947	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	175.0	138.0
26	200M26	M	22.090	20.740	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	185.0	148.0
28	200M28	M	23.690	22.330	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	205.0	168.0
30	200M30	M	25.290	23.917	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	227.0	190.0.
32	200M32	M	26.880	25.505	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	251.0	214.0
35	200M35	M	29.280	27.890	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	265.0	228.0
40	200M40	M	33.270	31.865	C1	5½	6¾	6¾	9	2 23/32	2 23/32	2 5/16	1½	5 5/16	1.389	315.0	278.0
45	200N45	N	37.250	35.840	C1	5⅞	8⅛	8⅛	10	3 13/32	3 13/32	3 3/16	1 11/16	6¼	1.389	405.0	348.0
54	200N54	N	44.420	42.995	C1	5⅞	8⅛	8⅛	10	3 13/32	3 13/32	3 3/16	1 11/16	6¼	1.389	535.0	478.0
60	200N60	N	49.200	47.767	C1	5⅞	8⅛	8⅛	10	3 13/32	3 13/32	3 3/16	1 11/16	6¼	1.389	665.0	608.0

No. 200
2 ½" Pitch

MST® Sprockets





TYPE 6

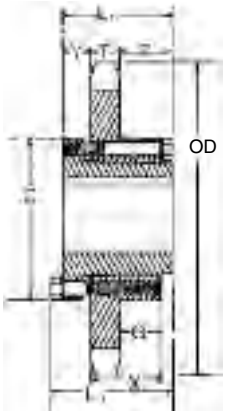
Single - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
12	200R12	R2	10.830	9.660	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-1/2	1.389	46.3	35.3
13	200S13	S2	11.640	10.447	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	71.2	52.2
14	200S14	S2	12.460	11.235	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	76.5	57.5
15	200S15	S2	13.260	12.025	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	80.0	61.0
16	200S16	S2	14.070	12.815	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	90.0	71.0
17	200S17	S2	14.870	13.605	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	98.0	79.0
18	200U18	U0	15.680	14.397	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	106.5	76.5
19	200U19	U0	16.480	15.190	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	113.7	83.7
20	200U20	U0	17.290	15.982	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	121.3	91.3
21	200U21	U0	18.090	16.775	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	129.4	99.4
22	200U22	U0	18.890	17.567	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	140.0	110.0
23	200U23	U0	19.690	18.360	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	147.0	117.0
24	200U24	U0	20.490	19.152	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	156.0	126.0
25	200U25	U0	21.290	19.947	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	170.0	140.0
26	200U26	U0	22.090	20.740	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	180.0	150.0
28	200U28	U0	23.690	22.330	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	199.0	169.0
30	200U30	U0	25.290	23.917	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	218.0	188.0
32	200U32	U0	26.880	25.505	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	242.0	212.0
35	200U35	U1	29.280	27.890	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2-7/8	1.389	292.0	252.0
40	200U40	U1	33.270	31.865	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2-7/8	1.389	346.0	306.0
45	200U45	U1	37.250	35.840	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2-7/8	1.389	330.0	290.0
54	200U54	U2	44.420	42.995	6	5	10-19/32	10-1/8	4-1/4	8-3/8	3-29/32	1.389	435.0	385.0
60	200U60	U2	49.200	47.767	6	5	10-19/32	10-1/8	4-1/4	8-3/8	3-29/32	1.389	495.0	445.0

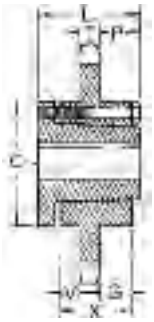
Sprockets with “H” suffix have hardened teeth.

All Steel Stock Sprockets

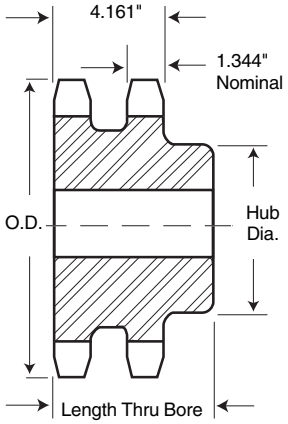
No. 200-2 2½" Pitch



QD — TYPE C



QD — TYPE C1



TYPE B



TYPE C



Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches Stock	Bore (inches Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs. (Approx.)
11	D200B11	10.020	B	2	3¾	5½	5⅞	57
12	D200B12	10.830	B	2	4½	6½	6¼	80
13	D200B13	11.640	B	2	5¼	7	6⅜	96
14	D200B14	12.460	B	2	5½	8	6⅜	119
15	D200B15	13.260	B	2	5¾	8½	6⅜	138
16	D200B16	14.070	B	2	5¾	8½	6⅝	161
17	D200B17	14.870	B	2	5¾	8½	6⅝	178
18	D200B18	15.680	B	2	5¾	8½	6⅝	196
19	D200B19	16.480	B	2	5¾	8½	6⅝	217
20	D200B20	17.290	B	2	5¾	8½	6⅝	236
21	D200B21	18.090	B	2	5¾	8½	6⅝	250
22	D200B22	18.890	B	2	5¾	8½	6⅝	284
23	D200B23	19.690	B	2	5¾	8½	6⅝	308
24	D200B24	20.490	B	2	5¾	8½	6⅝	330
25	D200B25	21.290	B	2	5¾	8½	6⅝	358
26	D200B26	22.090	B	2	5¾	8½	6⅝	386
45	D200C45	37.250	C	1½	7	10	8½	665
60	D200C60	49.200	C	1½	7	10	9	972

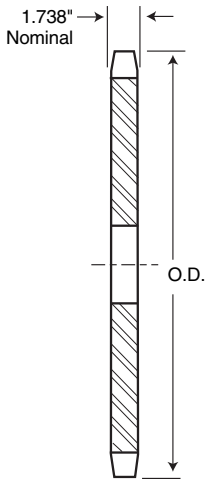
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Alteration Charges

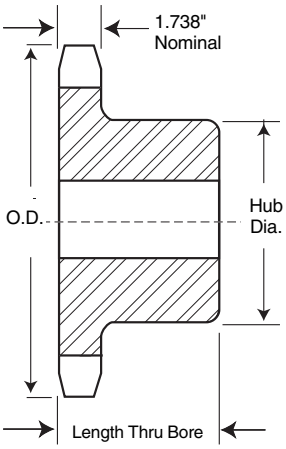
See current discount sheet for alteration charges.

No. 240
3" Pitch

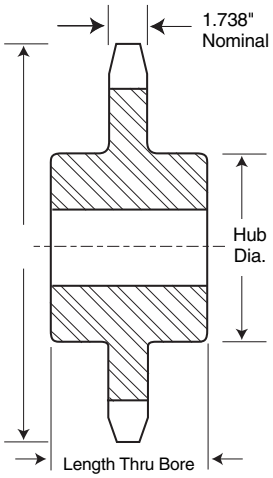
All Steel
Stock Sprockets



TYPE A



TYPE B



TYPE C



Single - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches) Stock	Bore (inches) Rec. Max.	Hub (inches) Dia.	Hub (inches) Length Thru	Weight Lbs (Approx.)
10	240B10	11.030	B	1½	4½	6½	3⅜	49.0
11	240B11	12.020	B	1½	4¾	7	3⅜	66.0
12	240B12	13.000	B	1½	5⅜	7½	3⅜	72.0
13	240B13	13.970	B	1½	5⅜	7½	3⅜	81.0
14	240B14	14.940	B	1½	5⅜	7½	3⅜	88.0
15	240B15	15.910	B	1½	5⅜	7½	3⅜	98.0
16	240B16	16.880	B	1½	5½	8	4⅛	120.0
17	240B17	17.850	B	1½	5½	8	4⅛	137.0
18	240B18	18.810	B	1½	5½	8	4⅛	142.0
19	240B19	19.780	B	1½	5½	8	4⅛	154.0
20	240B20	20.740	B	1½	5½	8	4⅛	169.0
21	240B21	21.710	B	1½	5½	8	4⅛	186.0
25	240B25	25.550	B	1½	5½	8	4⅛	254.0
30	240C30	30.340	C	1½	6	9	6¼	398.0
35	240C35	35.130	C	1½	6	9	6¼	527.0
40	240C40	39.920	C	1½	7	10	6¾	672.0
45	240C45	44.700	C	1½	7	10	6¾	850.0
54	240C54	53.310	C	1½	7	10	6¾	1148.0
60	240C60	59.040	C	1½	7	10	6¾	1419.0

Single - Type A

Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
A	240A10	1½	30.0
A	240A11	1½	37.0
A	240A12	1½	45.0
A	240A13	1½	54.0
A	240A14	1½	62.0
A	240A15	1½	68.0
A	240A16	1½	82.0
A	240A17	1½	93.0
A	240A18	1½	108.0
A	240A19	1½	120.0
A	240A20	1½	128.0
A	240A21	1½	148.0
A	240A25	1½	208.0
A	240A30	1½	310.0
A	240A35	1½	416.0
A	240A40	1½	548.0
A	240A45	1½	702.0
A	240A54	1½	1022.0
A	240A60	1½	1268.0

Metric Sprockets
ISO STANDARDS

Types A - B & C Stock Sprockets



TYPE A
SIMPLEX



TYPE B
SIMPLEX



TYPE C
TRIPLEX



TYPE B
DUPLEX



TAPER BUSHED
SIMPLEX



TAPER BUSHED
DUPLEX



INSTANT
SPLIT® SPROCKET

Made-to-Order



TAPER BUSHED
DOUBLE-SIMPLEX
HARDENED TEETH
Double Simplex



QD
SIMPLEX
QD Sprockets



IDLER
BALL BEARING
Idler Sprockets



TYPE B
SIMPLEX
STAINLESS
Stainless Steel

ISO 06B-1
METRIC 35

Metric Sprockets

CHAIN DATA:
BS 228/3
ISO 06B-1
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 910 kilos (2000 lbs.)

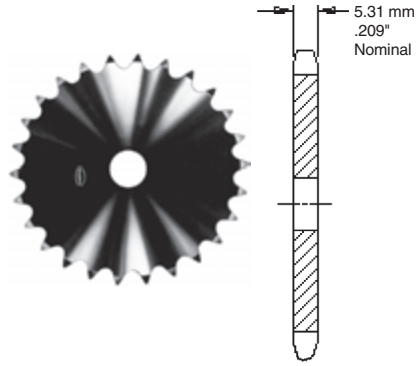
0.375 INCH (9.525 mm) PITCH SIMPLEX

Simplex - Type B — Steel

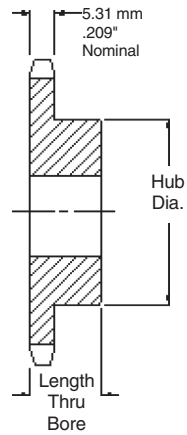
Simplex - Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
8	24.89	06B8	8	9	13	22	0.03	–	–	–
9	27.85	06B9	8	11	16	22	0.04	–	–	–
10	30.82	06B10	8	12	20	22	0.06	–	–	–
11	33.81	06B11	8	14	23	25	0.09	–	–	–
12	36.80	06B12	8	16	26	25	0.10	–	–	–
13	39.80	06B13	10	18	29	25	0.11	–	–	–
14	42.80	06B14	10	19	31	25	0.12	–	–	–
15	45.81	06B15	10	20	34	25	0.14	06A15	8	0.07
16	48.82	06B16	10	22	37	25	0.18	06A16	10	0.08
17	51.84	06B17	10	25	40	28	0.20	06A17	10	0.18
18	54.85	06B18	10	25	43	28	0.23	06A18	10	0.11
19	57.87	06B19	10	28	46	28	0.25	06A19	10	0.12
20	60.89	06B20	10	30	49	28	0.31	06A20	10	0.13
21	63.91	06B21	12	30	50	28	0.36	06A21	10	0.14
22	66.93	06B22	12	32	51	28	0.37	06A22	10	0.15
23	69.95	06B23	12	32	52	28	0.39	06A23	10	0.17
24	72.97	06B24	12	32	54	28	0.40	06A24	10	0.19
25	76.00	06B25	12	35	57	28	0.41	06A25	10	0.20
26	79.02	06B26	12	38	60	28	0.42	06A26	10	0.21
27	82.05	06B27	12	38	60	28	0.44	06A27	10	0.22
28	85.07	06B28	12	38	60	28	0.45	06A28	10	0.23
29	88.10	06B29	12	38	60	28	0.47	06A29	10	0.25
30	91.12	06B30	12	38	60	30	0.48	06A30	10	0.27
32	97.18	06B32	14	40	65	30	0.56	06A32	12	0.20
35	106.26	06B35	14	40	65	30	0.68	06A35	12	0.27
36	109.29	06B36	16	45	70	30	0.71	06A36	12	0.28
38	115.35	06B38	16	45	70	30	0.77	06A38	14	0.43
40	121.40	06B40	16	45	70	30	0.81	06A40	14	0.45
42	127.46	06B42	16	45	70	30	0.85	06A42	14	0.48
45	136.55	06B45	16	45	75	30	0.91	06A45	14	0.51
48	145.64	06B48	16	45	75	30	0.97	06A48	14	0.54
54	163.82	06B54	16	45	75	30	1.09	06A54	14	0.61
57	172.91	06B57	19	45	75	30	1.27	06A57	18	0.86
60	182.00	06B60	19	45	75	30	1.34	06A60	18	0.91
64	194.12	06B64	19	45	75	30	1.43	06A64	18	0.97
70	212.30	06B70	19	45	75	30	1.56	06A70	18	1.06
72	218.37	06B72	19	45	75	30	1.60	06A72	18	1.09
76	230.49	06B76	19	45	75	30	1.91	06A76	18	1.45
80	242.61	06B80	19	45	75	30	2.01	06A80	18	1.53
84	254.74	06B84	19	45	75	30	2.11	06A84	18	1.60
90	272.93	06B90	19	52	75	30	2.26	06A90	18	1.72
95	288.08	06B95	19	52	75	30	2.61	06A95	18	2.18
96	291.11	06B96	19	52	75	30	2.64	06A96	18	2.20
114	345.68	06B114	19	52	75	30	3.63	06A114	18	3.13

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



TYPE A





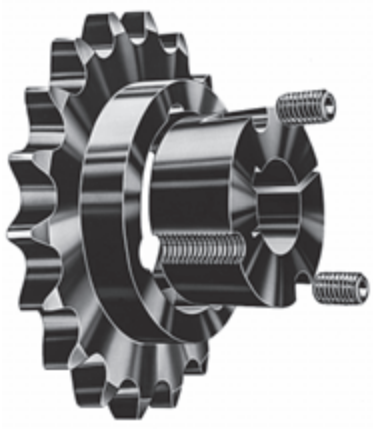
TYPE B

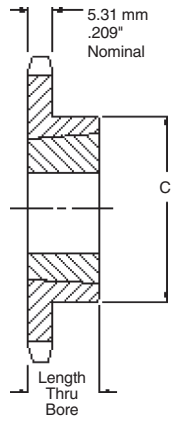
Metric Sprockets

ISO 06B-1
METRIC 35

0.375 INCH (9.525 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/3
ISO 06B-1
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 910 kilos (2000 lbs.)





TYPE B

Simplex- Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
18	54.85	06BTB18H	1008	25.40	22.23	47.63★	0.18	0.14
19	57.87	06BTB19H	1008	25.40	22.23	46.04	0.23	0.14
20	60.89	06BTB20H	1008	25.40	22.23	49.20	0.27	0.14
21	63.91	06BTB21H	1008	25.40	22.23	52.39	0.32	0.14
22	66.93	06BTB22H	1210	31.75	25.40	60.33	0.36	0.27
23	69.95	06BTB23H	1210	31.75	25.40	61.91	0.41	0.27
24	72.97	06BTB24H	1210	31.75	25.40	61.91	0.41	0.27
25	76.00	06BTB25H	1210	31.75	25.40	61.91	0.54	0.27
26	79.02	06BTB26H	1610	41.28	25.40	73.03*	0.50	0.41
28	85.07	06BTB28H	1610	41.28	25.40	73.03	0.54	0.41
30	91.12	06BTB30H	1610	41.28	25.40	79.38	0.54	0.41
32	97.18	06BTB32	1610	41.28	25.40	82.55	0.59	0.41
35	106.26	06BTB35	1610	41.28	25.40	82.55	0.64	0.41
36	109.29	06BTB36	1610	41.28	25.40	82.55	0.64	0.41
38	115.35	06BTB38	1610	41.28	25.40	82.55	0.68	0.41
40	121.40	06BTB40	1610	41.28	25.40	82.55	0.86	0.41
45	136.55	06BTB45	1610	41.28	25.40	82.55	0.95	0.41
48	145.65	06BTB48	1610	41.28	25.40	82.55	1.04	0.41
54	163.82	06BTB54	1610	41.28	25.40	82.55	1.18	0.41
57	172.91	06BTB57	1610	41.28	25.40	82.55	1.25	0.41
60	182.00	06BTB60	1610	41.28	25.40	82.55	1.36	0.41
70	212.30	06BTB70	1610	41.28	25.40	82.55	1.68	0.41
76	230.49	06BTB76	1610	41.28	25.40	82.55	1.82	0.41
95	288.08	06BTB95	1610	41.28	25.40	82.55	2.28	0.41

★Has recessed groove in hub for chain clearance.
Sprockets with “H” suffix have hardened teeth.

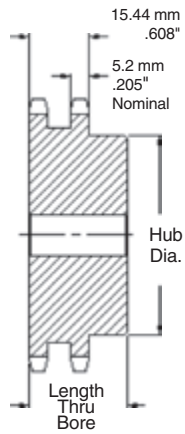
ISO 06B-2
METRIC 35-2

Metric Sprockets

CHAIN DATA:
BS 228/3
ISO 06B-2
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 1730 kilos (3800 lbs.)

0.375 INCH (9.525 mm) PITCH DUPLEX WIDTH CHAIN





TYPE B

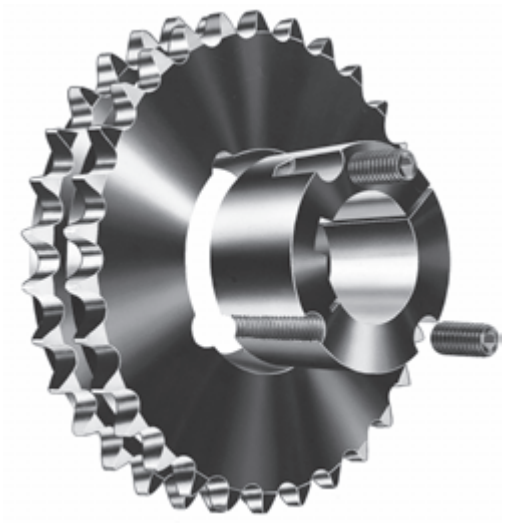
Duplex - Type B — Steel

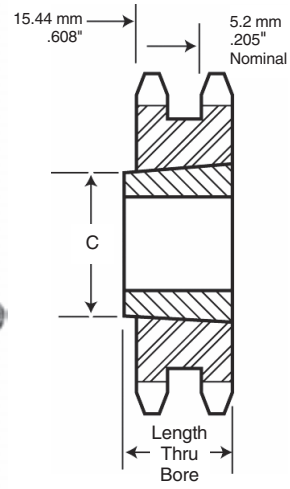
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
12	36.80	D06B12	10	16	25	25	0.16
13	39.79	D06B13	10	18	28	25	0.20
14	42.80	D06B14	10	18	31	25	0.25
15	45.81	D06B15	10	20	34	25	0.29
16	48.82	D06B16	12	20	37	30	0.34
17	51.83	D06B17	12	24	40	30	0.39
18	54.85	D06B18	12	25	43	30	0.45
19	57.87	D06B19	12	28	46	30	0.52
20	60.89	D06B20	12	30	49	30	0.59
21	63.91	D06B21	12	30	52	30	0.68
22	66.93	D06B22	12	35	55	30	0.75
23	69.95	D06B23	12	38	58	30	0.80
24	72.97	D06B24	12	39	61	30	0.84
25	76.00	D06B25	12	40	64	30	0.89
26	79.02	D06B26	12	42	67	30	0.91
27	82.05	D06B27	12	45	70	30	1.00
28	85.07	D06B28	12	48	73	30	1.07
29	88.10	D06B29	12	50	76	30	1.14
30	91.12	D06B30	12	52	80	30	1.22
32	98.18	D06B32	16	52	80	30	1.30
35	106.26	D06B35	16	52	80	30	1.42
36	109.29	D06B36	16	60	90	30	1.58
38	115.35	D06B38	16	60	90	30	1.72
40	121.40	D06B40	16	52	80	35	1.81
42	127.46	D06B42	19	60	90	35	2.05
45	136.55	D06B45	19	60	90	35	2.35
48	145.64	D06B48	19	60	90	35	2.75
52	157.75	D06B52	19	60	90	35	3.13
57	172.91	D06B57	19	60	90	35	3.47
60	182.00	D06B60	19	60	90	35	3.78
68	206.24	D06B68	19	60	90	35	4.43
70	212.30	D06B70	19	60	90	35	4.56
72	218.37	D06B72	19	60	90	35	4.89
76	230.49	D06B76	19	60	90	38	5.67
84	254.74	D06B84	19	60	90	38	7.10
95	288.08	D06B95	25	62	95	38	8.64
96	291.11	D06B96	25	62	95	38	8.75
114	345.68	D06B114	25	62	95	38	11.12

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.375 INCH (9.525 mm) PITCH DUPLEX WIDTH CHAINS

CHAIN DATA:
BS 228/3
ISO 06B-2
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 1730 kilos (3800 lbs.)





TYPE B

Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
19	57.87	D06BTB19	1008	25.40	22.23	46.43	0.6	0.14
20	60.89	D06BTB20	1008	25.40	22.23	49.20	0.8	0.14
21	63.91	D06BTB21	1008	25.40	22.23	52.39	1.4	0.14
22	66.93	D06BTB22	1008	25.40	22.23	55.56	1.7	0.14
24	72.97	D06BTB24	1210	31.75	25.40	61.91	1.8	0.27
25	76.00	D06BTB25	1210	31.75	25.40	61.91	1.9	0.27
26	79.02	D06BTB26	1210	31.75	25.40	66.68	2.0	0.27
30	91.12	D06BTB30	1610	41.28	25.40	79.38	1.8	0.41
32	97.18	D06BTB32	1610	41.28	25.40	82.55	2.0	0.41
35	106.26	D06BTB35	1610	41.28	25.40	82.55	2.3	0.41
38	115.34	D06BTB38	1610	41.28	25.40	82.55	2.5	0.41
40	121.40	D06BTB40	1610	41.28	25.40	82.55	2.9	0.41
45	136.55	D06BTB45	1610	41.28	25.40	82.55	3.2	0.41
48	145.65	D06BTB48	1610	41.28	25.40	92.08	3.5	0.41
54	163.82	D06BTB54	1610	41.28	25.40	92.08	3.9	0.41
57	172.91	D06BTB57	1610	41.28	25.40	92.08	4.1	0.41
60	182.00	D06BTB60	1610	41.28	25.40	92.08	4.9	0.41
70	212.30	D06BTB70	1610	41.28	25.40	92.08	6.3	0.41
76	230.49	D06BTB76	1610	41.28	25.40	92.08	6.8	0.41
95	288.08	D06BTB95	1610	41.28	25.40	92.08	6.9	0.41

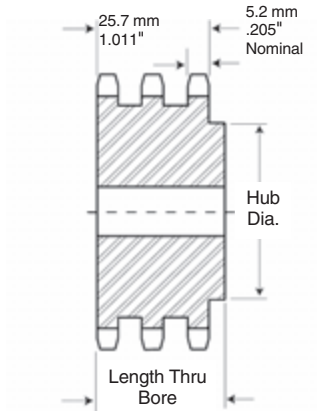
ISO 06B-3
METRIC 35-3

Metric Sprockets

CHAIN DATA:
BS 228/3
ISO 06B-3
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 2540 kilos (5600 lbs.)

0.375 INCH (9.525 mm) PITCH TRIPLEX





TYPE B

Triplex - Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
12	36.80	E06B12	12	16	25	35	0.23
13	39.80	E06B13	12	18	28	35	0.27
14	42.80	E06B14	12	18	31	35	0.32
15	45.81	E06B15	12	20	34	35	0.36
16	48.82	E06B16	12	20	37	35	0.45
17	51.84	E06B17	12	24	40	35	0.54
18	54.85	E06B18	12	25	43	35	0.64
19	57.87	E06B19	12	28	46	35	0.72
20	60.89	E06B20	12	30	49	35	0.77
21	63.91	E06B21	14	30	52	40	0.86
22	66.93	E06B22	14	35	54	40	0.95
23	69.95	E06B23	14	38	58	40	1.04
24	72.97	E06B24	14	39	61	40	1.18
25	76.00	E06B25	14	40	64	40	1.27
26	79.02	E06B26	14	42	67	40	1.31
27	82.05	E06B27	14	45	70	40	1.36
28	85.07	E06B28	14	48	73	40	1.50
29	88.10	E06B29	14	50	76	40	1.68
30	91.12	E06B30	14	52	80	40	1.72
32	97.18	E06B32	16	52	80	48	2.00
35	106.26	E06B35	16	52	80	48	2.25
36	109.29	E06B36	16	60	90	40	2.33
38	115.34	E06B38	16	60	90	40	2.49
40	121.40	E06B40	16	52	80	48	2.65
42	127.46	E06B42	19	60	90	48	2.81
45	136.55	E06B45	19	60	90	48	3.00
48	145.64	E06B48	19	60	90	48	3.20
52	157.75	E06B52	19	60	90	48	3.46
57	172.91	E06B57	19	60	90	48	4.77
60	182.00	E06B60	19	60	80	48	5.02
68	206.24	E06B68	19	60	90	48	5.69
72	218.37	E06B72	19	60	90	48	6.02
76	230.49	E06B76	19	64	100	48	8.48
84	254.74	E06B84	19	64	100	48	9.37
95	288.08	E06B95	25	64	100	54	13.61
96	291.11	E06B96	25	64	100	54	13.75
114	345.68	E06B114	25	64	100	54	17.48

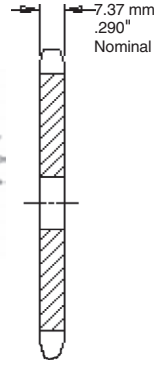
Metric Sprockets

ISO 08B-1
METRIC 40

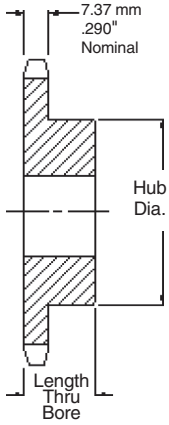
0.500 INCH (12.70 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/7
ISO 08B-1
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 1820 kilos (4000 lbs.)





TYPE A





TYPE B

Simplex - Type B — Steel

Simplex - Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
9	37.13	08B9	10	15	21	25	0.14	–	–	–
10	41.10	08B10	10	20	26	25	0.15	–	–	–
11	45.08	08B11	10	22	30	25	0.17	–	–	–
12	49.07	08B12	10	22	34	28	0.24	08A12	10	0.08
13	53.07	08B13	10	25	38	28	0.25	08A13	10	0.10
14	57.07	08B14	10	28	42	28	0.31	08A14	10	0.12
15	61.08	08B15	10	30	46	28	0.33	08A15	10	0.14
16	65.10	08B16	12	32	50	28	0.37	08A16	10	0.15
17	69.12	08B17	12	35	54	28	0.51	08A17	10	0.16
18	73.14	08B18	12	38	57	28	0.54	08A18	10	0.20
19	77.16	08B19	12	40	64	28	0.65	08A19	10	0.21
20	81.18	08B20	12	42	67	28	0.76	08A20	10	0.25
21	85.21	08B21	12	45	70	28	0.82	08A21	12	0.26
22	89.24	08B22	12	48	73	28	0.88	08A22	12	0.30
23	93.27	08B23	12	51	78	28	1.05	08A23	12	0.33
24	97.30	08B24	14	53	82	28	1.05	08A24	12	0.37
25	101.33	08B25	14	53	82	28	1.13	08A25	12	0.40
26	105.36	08B26	16	53	82	30	1.15	08A26	16	0.43
27	109.40	08B27	16	53	82	30	1.19	08A27	16	0.44
28	113.43	08B28	16	53	82	30	1.30	08A28	16	0.50
29	117.46	08B29	16	53	82	30	1.33	08A29	16	0.55
30	121.50	08B30	16	53	89	30	1.36	08A30	15	0.57
31	125.53	08B31	16	60	89	30	1.41	08A31	15	0.64
32	129.57	08B32	16	60	89	30	1.46	08A32	15	0.67
33	133.61	08B33	16	60	89	30	1.51	08A33	15	0.71
34	137.64	08B34	16	60	89	30	1.56	08A34	15	0.74
35	141.68	08B35	16	60	89	30	1.61	08A35	15	0.77
36	145.72	08B36	16	60	89	35	1.69	08A36	15	0.83
37	149.75	08B37	16	60	89	35	1.74	08A37	15	0.87
38	153.79	08B38	16	60	89	35	1.78	08A38	15	0.91
39	157.83	08B39	19	60	89	35	1.83	08A39	18	0.92
40	161.87	08B40	19	60	89	35	1.88	08A40	18	1.01
42	169.94	08B42	19	60	89	35	1.97	08A42	18	1.13
45	182.06	08B45	19	60	89	35	2.11	08A45	18	1.43
48	194.18	08B48	19	64	100	35	2.76	08A48	18	1.46
54	218.42	08B54	19	64	100	35	3.11	08A54	18	2.01
57	230.54	08B57	19	64	100	35	3.28	08A57	18	2.27
60	242.66	08B60	19	64	100	35	3.45	08A60	18	2.03
64	258.83	08B64	19	64	100	35	3.68	08A64	18	2.17
70	283.07	08B70	19	64	100	35	4.02	08A70	18	3.28
72	291.15	08B72	19	64	100	35	4.13	08A72	18	3.51
76	307.32	08B76	19	64	100	35	5.73	08A76	18	3.70
80	323.49	08B80	19	64	100	35	6.03	08A80	18	4.63
84	339.65	08B84	19	64	100	35	6.33	08A84	18	4.57
95	384.11	08B95	25	64	100	35	8.90	08A95	24	5.45
96	388.15	08B96	25	64	100	35	8.99	08A96	24	5.51
114	460.91	08B114	25	64	100	35	11.17	08A114	24	6.54

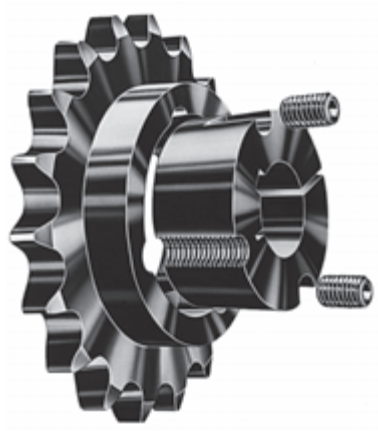
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

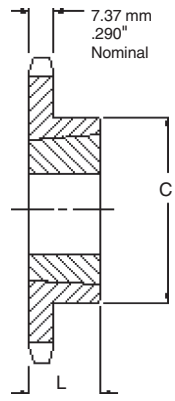
ISO 08B-1
METRIC 40

Metric Sprockets

CHAIN DATA:
BS 228/7
ISO 08B-1
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 1820 kilos (4000 lbs.)

0.500 INCH (12.70 mm) PITCH SIMPLEX





TYPE B

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
14	57.07	08BTB14H	1008	25.40	22.23	46★	0.18	0.14
15	61.08	08BTB15H	1008	25.40	22.23	46	0.18	0.14
16	65.10	08BTB16H	1008	25.40	22.23	46	0.23	0.14
17	69.12	08BTB17H	1210	31.75	25.40	60★	0.23	0.14
18	73.14	08BTB18H	1210	31.75	25.40	62★	0.27	0.27
19	77.16	08BTB19H	1210	31.75	25.40	62	0.32	0.27
20	81.18	08BTB20H	1610	41.28	25.40	70★	0.41	0.41
21	85.21	08BTB21H	1610	41.28	25.40	70	0.45	0.41
22	89.24	08BTB22H	1610	41.28	25.40	70	0.50	0.41
23	93.27	08BTB23H	1610	41.28	25.40	76	0.59	0.41
24	97.30	08BTB24H	1610	41.28	25.40	82	0.73	0.41
25	101.33	08BTB25H	1610	41.28	25.40	82	0.73	0.41
26	105.36	08BTB26H	1610	41.28	25.40	82	0.73	0.41
27	109.40	08BTB27H	1610	41.28	25.40	76	0.70	0.41
28	113.43	08BTB28H	1610	41.28	25.40	76	0.73	0.41
29	117.46	08BTB29H	1610	41.28	25.40	76	0.76	0.41
30	121.50	08BTB30H	1610	41.28	25.40	73	0.82	0.41
32	129.57	08BTB32	1610	41.28	25.40	76	0.87	0.41
35	141.68	08BTB35	1610	41.28	25.40	76	0.96	0.41
36	145.72	08BTB36	1610	41.28	25.40	76	0.98	0.41
38	153.79	08BTB38	1610	41.28	25.40	76	1.23	0.41
40	161.87	08BTB40	1610	41.28	25.40	76	1.29	0.41
42	169.94	08BTB42	1610	41.28	25.40	76	1.36	0.41
45	182.06	08BTB45	1610	41.28	25.40	76	1.46	0.41
48	194.18	08BTB48	1610	41.28	25.40	76	1.55	0.41
54	218.42	08BTB54	1610	41.28	25.40	76	1.75	0.41
57	230.54	08BTB57	1610	41.28	25.40	76	2.63	0.41
60	242.66	08BTB60	1610	41.28	25.40	76	2.77	0.41
70	283.07	08BTB70	2012	50.80	31.75	90	3.93	0.41
72	291.15	08BTB72	2012	50.80	31.75	90	4.05	0.41
76	307.32	08BTB76	2012	50.80	31.75	90	4.27	0.77
80	323.49	08BTB80	2012	50.80	31.75	90	4.49	0.77
84	339.65	08BTB84	2012	50.80	31.75	90	4.72	0.77
95	384.11	08BTB95	2012	50.80	31.75	90	6.81	0.77
96	388.15	08BTB96	2012	50.80	31.75	90	6.88	0.77
114	460.91	08BTB114	2517	63.50	44.45	108	10.44	0.77

★Has recessed groove in hub for chain clearance.
Sprockets with "H" suffix have hardened teeth.

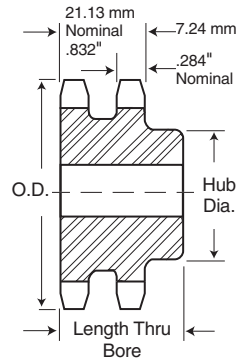
Metric Sprockets

ISO 08B-2
METRIC 40-2

0.500 INCH (12.70 mm) PITCH DUPLEX

CHAIN DATA:
BS 228/7
ISO 08B-2
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 3180 kilos (7000 lbs.)





TYPE B

Duplex - Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
10	41.10	D08B10	10	18	26	32	0.22
11	45.08	D08B11	11	21	30	35	0.22
12	49.07	D08B12	12	23	34	35	0.26
13	53.07	D08B13	12	25	38	35	0.28
14	57.07	D08B14	12	28	42	35	0.34
15	61.08	D08B15	12	30	46	35	0.36
16	65.10	D08B16	14	33	50	35	0.35
17	69.12	D08B17	14	36	54	35	0.44
18	73.14	D08B18	14	38	58	35	0.49
19	77.16	D08B19	14	40	62	35	0.57
20	81.18	D08B20	14	40	66	35	0.65
21	85.21	D08B21	16	45	70	40	0.72
22	89.24	D08B22	16	45	70	40	0.73
23	93.27	D08B23	16	45	70	40	0.83
24	97.30	D08B24	16	50	75	40	0.94
25	101.33	D08B25	16	52	80	40	0.98
26	105.36	D08B26	20	56	85	40	1.04
27	109.40	D08B27	20	56	85	40	1.08
28	113.43	D08B28	20	60	90	40	1.10
29	117.46	D08B29	20	62	95	40	1.14
30	121.50	D08B30	20	64	100	40	1.16
32	129.57	D08B32	20	64	100	40	1.24
35	141.68	D08B35	20	64	100	40	1.35
36	145.72	D08B36	20	73	110	40	2.05
38	153.79	D08B38	20	73	110	45	2.17
40	161.87	D08B40	20	73	110	45	2.28
42	169.94	D08B42	20	73	110	45	2.32
45	182.06	D08B45	20	73	110	45	2.49
48	194.18	D08B48	20	73	110	45	2.65
54	218.42	D08B54	25	73	110	45	2.98
57	230.54	D08B57	25	73	110	45	3.88
60	242.66	D08B60	25	73	110	45	4.08
68	283.07	D08B68	25	73	110	45	4.63
72	291.16	D08B72	25	73	110	45	4.90
76	307.32	D08B76	30	80	120	45	6.60
84	339.65	D08B84	30	80	120	45	7.29
95	384.11	D08B95	30	80	120	45	9.89
96	388.15	D08B96	30	80	120	45	9.99
114	460.90	D08B114	30	80	120	45	12.88

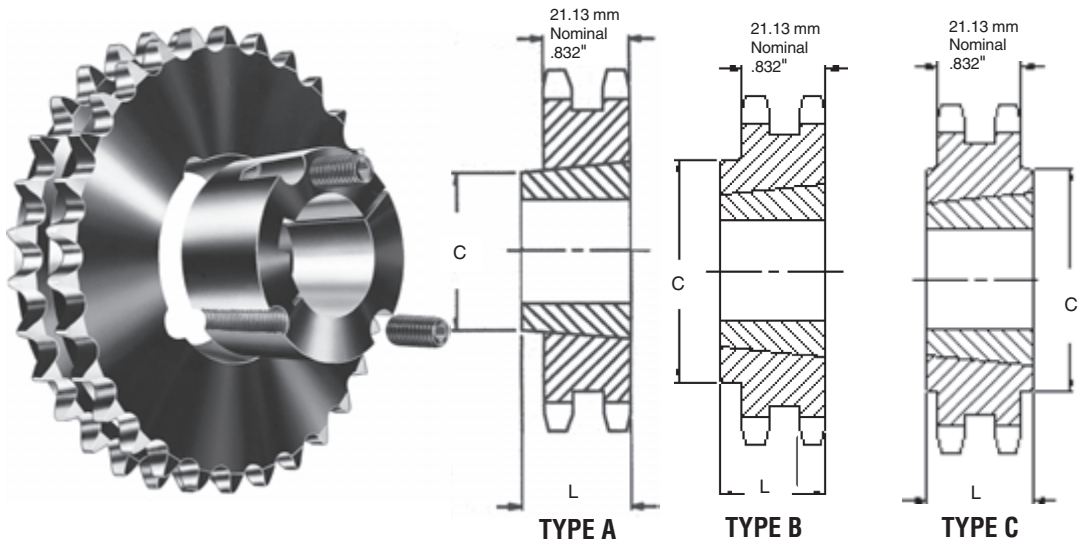
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 08B-2
METRIC 40-2

Metric Sprockets

CHAIN DATA:
BS 228/7
ISO 08B-2
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 3180 kilos (7000 lbs.)

0.500 INCH (12.70 mm) PITCH DUPLEX



Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Rim (kg)	Weight Bushing (kg)
15	61.08	D08ATB15	1008	25.40	22.22	–	0.18	0.13
16	65.10	D08ATB16	1008	25.40	22.22	–	0.22	0.13
17	69.12	D08ATB17	1008	25.40	22.22	–	0.27	0.13
18	73.14	D08BTB18	1210	31.75	25.40	58	0.27	0.27
19	77.16	D08BTB19	1210	31.75	25.40	63	0.36	0.27
20	81.18	D08BTB20	1610	41.27	25.40	70	0.37	0.41
21	85.21	D08BTB21	1610	41.27	25.40	70	0.46	0.41
22	89.24	D08BTB22	1610	41.27	25.40	74	0.55	0.41
23	93.27	D08BTB23	1610	41.27	25.40	78	0.59	0.41
24	97.30	D08BTB24	2012	41.27	25.40	83	0.70	0.41
25	101.33	D08BTB25	2012	50.80	31.75	87	0.77	0.77
26	105.36	D08BTB26	2012	50.80	31.75	87	0.80	0.77
28	113.43	D08BTB28	2012	50.80	31.75	99	1.06	0.77
30	121.50	D08BTB30	2012	50.80	31.75	108	1.59	0.77
35	141.68	D08BTB35	2012	50.80	31.75	108	1.86	0.77
36	145.72	D08BTB36	2012	50.80	31.75	108	1.91	0.77
38	153.79	D08BTB38	2012	50.80	31.75	108	3.18	0.77
42	169.94	D08CTB42	2517	50.80	44.45	108	5.57	1.59
45	182.06	D08CTB45	2517	63.50	44.45	108	5.97	1.59
48	194.18	D08CTB48	2517	63.50	44.45	108	6.37	1.59
54	218.42	D08CTB54	2517	63.50	44.45	108	7.17	1.59
57	230.54	D08CTB57	2517	63.50	44.45	108	7.56	1.59
60	242.66	D08CTB60	2517	63.50	44.45	108	12.05	1.59
68	274.99	D08CTB68	2517	63.50	44.45	108	13.66	1.59
70	283.07	D08CTB70	2517	63.50	44.45	108	14.06	1.59
72	291.15	D08CTB72	2517	63.50	44.45	108	14.46	1.59
76	307.32	D08CTB76	2517	63.50	44.45	108	15.26	1.59
84	339.65	D08CTB84	2517	63.50	44.45	108	16.87	1.59
95	384.11	D08CTB95	2517	63.50	44.45	108	19.08	1.59
96	388.15	D08CTB96	2517	63.50	44.45	108	19.28	1.59
114	460.91	D08CTB114	2517	63.50	44.45	108	22.90	1.59

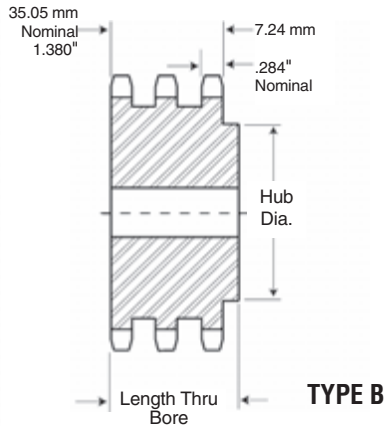
Metric Sprockets

ISO 08B-3
METRIC 40-3

0.500 INCH (12.70 mm) PITCH TRIPLEX

CHAIN DATA:
BS 228/7
ISO 08B-3
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 4540 kilos (10,000 lbs.)





Triplex - Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	45.08	E08B11	14	22	30	50	0.32
12	49.07	E08B12	14	24	34	50	0.45
13	53.06	E08B13	14	25	38	50	0.59
14	57.07	E08B14	14	28	42	50	0.72
15	61.08	E08B15	14	31	46	50	0.81
16	65.10	E08B16	16	35	50	50	0.90
17	69.12	E08B17	16	36	54	50	1.04
18	73.14	E08B18	16	38	58	50	1.22
19	77.16	E08B19	16	40	62	50	1.41
20	81.18	E08B20	16	40	66	50	1.58
21	85.21	E08B21	20	45	70	55	1.81
22	89.24	E08B22	20	45	70	55	2.03
23	93.27	E08B23	20	45	70	55	2.27
24	97.30	E08B24	20	50	75	55	2.44
25	101.33	E08B25	20	52	80	55	2.54
26	105.36	E08B26	20	56	85	55	2.85
27	109.40	E08B27	20	56	85	55	2.85
28	113.43	E08B28	20	60	90	55	3.16
29	117.46	E08B29	20	62	95	55	3.34
30	121.50	E08B30	20	64	100	55	3.48
35	141.68	E08B35	20	73	110	55	4.79
36	145.72	E08B36	25	80	120	55	5.43
38	153.79	E08B38	25	80	120	60	6.49
42	169.94	E08B42	25	80	120	60	7.17
45	182.06	E08B45	25	80	120	60	7.69
48	194.18	E08B48	25	80	120	60	8.20
52	210.34	E08B52	25	80	120	60	8.88
54	218.43	E08B54	25	80	120	60	9.22
57	230.54	E08B57	25	80	120	60	12.62
60	242.66	E08B60	25	85	130	65	13.84
68	274.99	E08B68	25	85	130	65	15.69
72	291.15	E08B72	25	85	130	65	16.61
76	307.32	E08B76	30	85	130	65	22.23
84	339.65	E08B84	30	85	130	65	24.57
95	384.11	E08B95	30	85	130	65	33.11
114	460.91	E08B114	30	85	130	65	41.90

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 10B-1
METRIC 50

Metric Sprockets

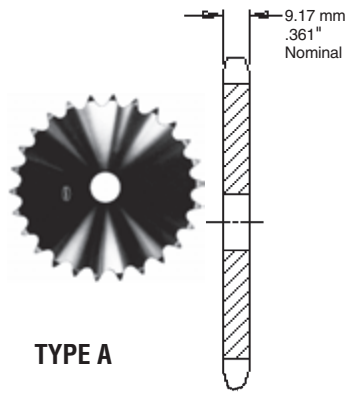
CHAIN DATA:
BS 228/11
ISO 10B-1
PITCH: 15.88mm (0.625")
ROLLER DIAMETER: 10.16mm (0.400")
ROLLER WIDTH: 9.65mm (0.380")
TENSILE: 2270 kilos (4500 lbs.)

0.625 INCH (15.88 mm) PITCH SIMPLEX

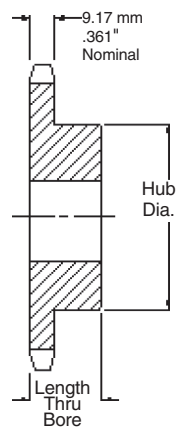
Simplex-Type B — Steel

Simplex-Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
8	41.48	10B8	12	16	22	25	0.09	–	–	–
9	46.42	10B9	12	19	27	25	0.14	–	–	–
10	51.37	10B10	12	22	32	25	0.23	–	–	–
11	56.35	10B11	12	25	37	25	0.27	–	–	–
12	61.34	10B12	12	32	43	25	0.32	10A12	12	0.15
13	66.33	10B13	12	33	48	25	0.36	10A13	12	0.19
14	71.34	10B14	12	36	53	25	0.45	10A14	12	0.23
15	76.36	10B15	12	38	57	25	0.59	10A15	12	0.25
16	81.37	10B16	12	44	63	25	0.68	10A16	12	0.31
17	86.39	10B17	12	47	67	25	0.82	10A17	12	0.35
18	91.42	10B18	12	48	73	25	0.91	10A18	12	0.39
19	96.45	10B19	16	51	76	25	1.04	10A19	16	0.43
20	101.48	10B20	16	51	76	25	1.13	10A20	16	0.48
21	106.51	10B21	16	51	76	25	1.18	10A21	16	0.51
22	111.55	10B22	16	51	76	25	1.27	10A22	16	0.59
23	116.59	10B23	16	51	76	25	1.45	10A23	16	0.65
24	121.62	10B24	16	51	76	32	1.50	10A24	15	0.68
25	126.66	10B25	16	51	76	32	1.59	10A25	15	0.73
26	131.70	10B26	16	51	76	32	1.63	10A26	15	0.78
27	136.74	10B27	19	51	76	32	1.68	10A27	18	0.89
28	141.79	10B28	19	51	76	32	1.72	10A28	18	0.93
29	146.83	10B29	19	51	76	32	1.91	10A29	18	1.07
30	151.87	10B30	19	57	82	32	2.04	10A30	18	1.15
31	156.92	10B31	19	57	82	32	2.13	10A31	18	1.27
32	161.96	10B32	19	57	82	32	2.27	10A32	18	1.23
33	167.01	10B33	19	57	82	32	2.33	10A33	18	1.42
34	172.05	10B34	19	57	82	32	2.36	10A34	18	1.45
35	177.10	10B35	19	57	82	32	2.48	10A35	18	1.51
36	182.15	10B36	19	57	82	32	2.56	10A36	18	1.73
37	187.19	10B37	19	57	82	32	2.68	10A37	18	1.81
38	192.24	10B38	19	57	82	32	2.72	10A38	18	1.88
39	197.29	10B39	19	57	82	32	2.86	10A39	18	2.00
40	202.33	10B40	19	57	82	32	2.95	10A40	18	2.02
41	207.38	10B41	19	57	82	32	3.01	10A41	18	2.20
42	212.43	10B42	19	57	82	32	3.16	10A42	18	2.26
43	217.48	10B43	19	57	82	32	3.20	10A43	18	2.38
44	222.53	10B44	19	57	82	32	3.44	10A44	18	2.46
45	227.58	10B45	19	64	95	32	3.73	10A45	18	2.69
46	232.63	10B46	19	64	95	32	3.85	10A46	18	2.91
47	237.68	10B47	19	64	95	32	3.89	10A47	18	2.95
48	242.73	10B48	25	64	95	32	4.18	10A48	24	2.98
49	247.78	10B49	25	64	95	32	4.21	10A49	24	3.20
50	252.82	10B50	25	64	95	32	4.40	10A50	24	3.22
51	257.87	10B51	25	64	95	32	4.48	10A51	24	3.32
52	262.92	10B52	25	64	95	32	4.64	10A52	24	3.62
53	267.97	10B53	25	64	95	32	4.75	10A53	24	3.67
54	273.03	10B54	25	64	95	32	4.86	10A54	24	3.76
55	278.08	10B55	25	64	95	32	4.96	10A55	24	3.88
56	283.13	10B56	25	64	95	32	5.22	10A56	24	4.04
57	288.18	10B57	25	64	95	32	5.27	10A57	24	4.25
58	293.23	10B58	25	64	95	32	5.36	10A58	24	4.67
59	298.28	10B59	25	64	95	32	5.59	10A59	24	4.76
60	303.33	10B60	25	64	95	32	5.90	10A60	24	4.90
70	353.84	10B70	25	64	95	44	8.24	10A70	24	6.35
72	363.94	10B72	25	64	95	44	8.84	10A72	24	6.91
76	384.15	10B76	25	64	95	44	11.03	10A76	24	9.11
80	404.36	10B80	25	70	108	44	11.22	10A80	24	9.53
84	424.57	10B84	25	70	108	44	11.57	10A84	24	10.02
95	480.14	10B95	25	70	108	44	14.57	10A95	24	12.25
96	485.19	10B96	25	70	108	44	14.93	10A96	24	12.43
112	566.03	10B112	25	70	108	44	19.05	10A112	24	17.10
114	576.13	10B114	25	70	108	44	20.61	10A114	24	17.84



TYPE A



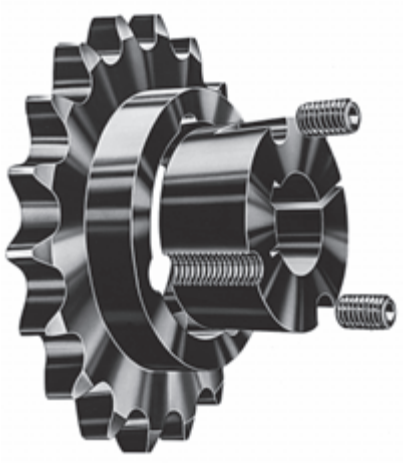


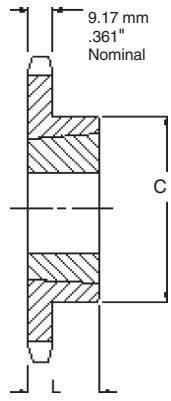
TYPE B

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.625 INCH (15.88 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/11
ISO 10B-1
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 2270 kilos (5000 lbs.)





TYPE B

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
12	61.34	10BTB12H	1008	25.40	22.23	49.20★	0.23	0.14
13	66.33	10BTB13H	1008	25.40	22.23	46.02	0.23	0.14
14	71.34	10BTB14H	1008	25.40	22.23	49.20	0.27	0.14
15	76.35	10BTB15H	1210	31.75	25.40	62.69★	0.32	0.27
16	81.37	10BTB16H	1610	41.28	25.40	70.64★	0.41	0.41
17	86.39	10BTB17H	1610	41.28	25.40	70.64★	0.41	0.41
18	91.42	10BTB18H	1610	41.28	25.40	70.64	0.41	0.41
19	96.45	10BTB19H	1610	41.28	25.40	76.20	0.64	0.41
20	101.48	10BTB20H	1610	41.28	25.40	76.20	0.68	0.41
21	106.51	10BTB21H	1610	41.28	25.40	76.20	0.73	0.41
22	111.55	10BTB22H	1610	41.28	25.40	76.20	0.78	0.41
23	116.59	10BTB23H	2012	50.80	31.75	90.47	0.82	0.77
24	121.62	10BTB24H	2012	50.80	31.75	90.47	0.91	0.77
25	126.66	10BTB25H	2012	50.80	31.75	90.47	1.09	0.77
26	131.70	10BTB26H	2012	50.80	31.75	90.47	1.14	0.77
27	136.74	10BTB27H	2012	50.80	31.75	90.47	1.18	0.77
28	141.79	10BTB28H	2012	50.80	31.75	90.47	1.29	0.77
30	151.87	10BTB30H	2012	50.80	31.75	90.47	1.41	0.77
32	161.96	10BTB32	2012	50.80	31.75	90.47	1.63	0.77
35	177.10	10BTB35	2012	50.80	31.75	90.47	1.91	0.77
36	182.15	10BTB36	2012	50.80	31.75	90.47	1.95	0.77
38	192.24	10BTB38	2012	50.80	31.75	90.47	2.22	0.77
40	202.33	10BTB40	2012	50.80	31.75	90.47	2.36	0.77
42	212.43	10BTB42	2012	50.80	31.75	90.47	2.68	0.77
45	227.58	10BTB45	2012	50.80	31.75	90.47	2.95	0.77
48	242.73	10BTB48	2012	50.80	31.75	90.47	3.31	0.77
54	273.03	10BTB54	2012	50.80	31.75	90.47	4.08	0.77
57	288.18	10BTB57	2012	50.80	31.75	90.47	4.59	0.77
60	303.33	10BTB60	2012	50.80	31.75	90.47	4.90	0.77
70	353.84	10BTB70	2517	63.50	44.45	107.95	6.35	1.59
72	363.94	10BTB72	2517	63.50	44.45	107.95	7.03	1.59
76	384.15	10BTB76	2517	63.50	44.45	107.95	8.31	1.59
80	404.36	10BTB80	2517	63.50	44.45	107.95	8.85	1.59
84	424.57	10BTB84	2517	63.50	44.45	107.95	10.21	1.59
95	480.14	10BTB95	2517	63.50	44.45	107.95	12.76	1.59
96	485.19	10BTB96	2517	63.50	44.45	107.95	13.15	1.59
114	576.13	10BTB114	2517	63.50	44.45	107.95	19.61	1.59

★ Has recessed groove in hub for chain clearance.
Sprockets with "H" suffix have hardened teeth.

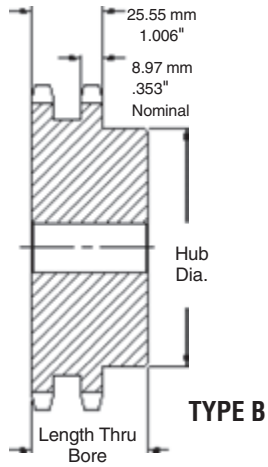
ISO 10B-2
METRIC 50-2

Metric Sprockets

CHAIN DATA:
BS 228/11
ISO 10B-2
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 4540 kilos (10,000 lbs.)

0.625 INCH (15.88 mm) PITCH DUPLEX





TYPE B

Duplex - Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	56.35	D10B11	14	24	37	40	0.44
12	61.34	D10B12	14	28	43	40	0.57
13	66.33	D10B13	14	33	48	40	0.71
14	71.34	D10B14	14	35	53	40	0.84
15	76.35	D10B15	14	38	58	40	1.01
16	81.37	D10B16	16	40	63	45	1.19
17	86.39	D10B17	16	45	68	45	1.38
18	91.42	D10B18	16	48	73	45	1.62
19	96.45	D10B19	16	52	79	45	1.77
20	101.48	D10B20	16	56	84	45	1.93
21	106.51	D10B21	16	56	85	45	2.22
22	111.55	D10B22	16	60	90	45	2.53
23	116.59	D10B23	16	62	95	45	2.77
24	121.62	D10B24	16	64	100	45	2.95
25	126.66	D10B25	16	68	105	45	3.15
26	131.70	D10B26	20	73	110	45	3.42
27	136.74	D10B27	20	73	110	45	3.98
28	141.79	D10B28	20	76	115	45	4.20
29	146.83	D10B29	20	76	115	45	4.43
30	151.87	D10B30	20	80	120	45	4.66
32	161.96	D10B32	20	80	120	45	5.16
35	177.10	D10B35	20	80	120	45	5.96
36	182.15	D10B36	20	80	120	45	6.70
38	192.24	D10B38	20	80	120	50	7.67
40	202.33	D10B40	30	80	120	50	7.92
45	227.58	D10B45	30	80	120	50	9.21
48	242.73	D10B48	30	80	120	60	10.92
57	288.18	D10B57	32	85	130	60	15.07
60	303.33	D10B60	32	85	130	60	16.27
70	353.84	D10B70	32	85	130	60	21.99
76	384.15	D10B76	32	85	130	60	26.31
80	404.36	D10B80	32	85	130	60	27.98
95	480.14	D10B95	32	85	130	60	32.69
114	576.13	D10B114	32	85	130	60	49.30

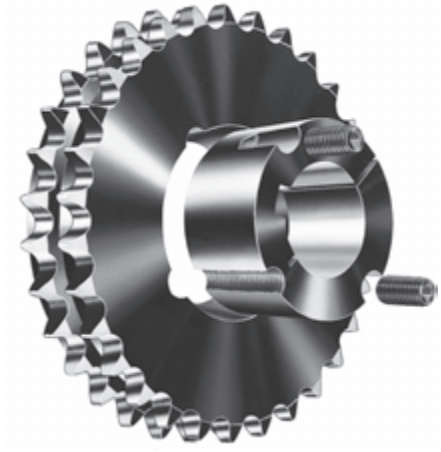
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

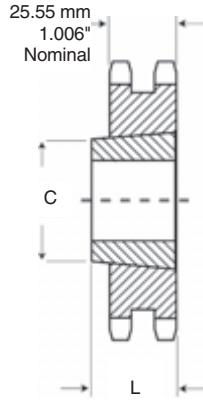
Metric Sprockets

ISO 10B-2
METRIC 50-2

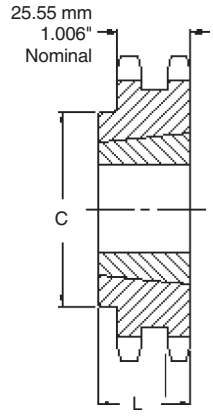
0.625 INCH (15.88 mm) PITCH DUPLEX

CHAIN DATA:
BS 228/11
ISO 10B-2
PITCH: 15.878 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 4540 kilos (10,000 lbs.)

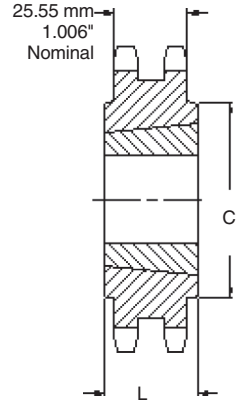




TYPE A



TYPE B



TYPE C

Duplex - Taper Bushed — Steel

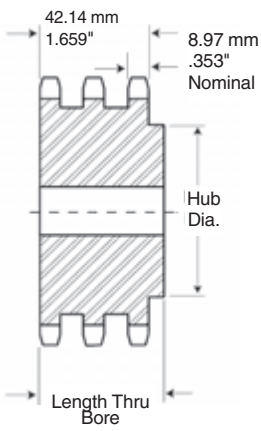
No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Rim (kg)	Weight Bushing (kg)
14	71.34	D10ATB14	1008	25.40	22.23	–	0.45	0.14
15	76.35	D10ATB15	1210	31.75	25.40	–	0.48	0.27
16	81.37	D10ATB16	1210	31.75	25.40	–	0.50	0.27
17	86.39	D10ATB17	1610	41.28	25.40	–	0.57	0.41
18	91.42	D10ATB18	1610	41.28	25.40	–	0.64	0.41
19	96.45	D10ATB19	1610	41.28	25.40	–	0.71	0.41
20	101.49	D10BTB20	2012	50.80	25.40	84.00	0.82	0.77
21	106.52	D10BTB21	2012	50.80	25.40	89.00	0.86	0.77
22	111.55	D10BTB22	2012	50.80	31.75	99.00	1.45	0.77
23	116.59	D10BTB23	2012	50.80	31.75	109.00	1.72	0.77
25	126.66	D10BTB25	2012	50.80	31.75	134.00	3.40	0.77
30	151.87	D10BTB30	2517	63.50	44.45	107.95	3.92	1.59
36	182.15	D10CTB36	2517	63.50	44.45	107.95	4.54	1.59
38	192.24	D10CTB38	2517	63.50	44.45	107.95	5.68	1.59
42	212.43	D10CTB42	2517	63.50	44.45	107.95	7.95	1.59
48	242.73	D10CTB48	2517	63.50	44.45	107.95	11.35	1.59
57	288.18	D10CTB57	2517	63.50	44.45	107.95	19.69	1.59
60	303.33	D10CTB60	2517	63.50	44.45	107.95	22.47	1.59
68	343.74	D10CTB68	2517	63.50	44.45	107.95	25.47	1.59
76	384.15	D10CTB76	2517	63.50	44.45	107.95	37.30	1.59
84	424.57	D10CTB84	2517	63.50	44.45	107.95	44.72	1.59
95	480.14	D10CTB95	2517	63.50	44.45	107.95	52.14	1.59
114	576.13	D10CTB114	2517	63.50	44.45	107.95	62.57	1.59

ISO 50
METRIC 50-3

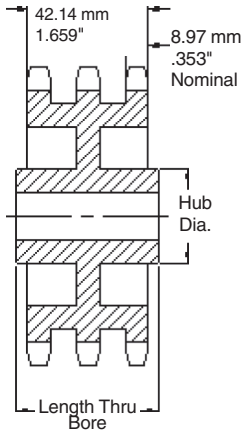
Metric Sprockets

0.625 INCH (15.88 mm) PITCH TRIPLEX

CHAIN DATA:
BS 228/11
ISO 10B-3
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 6810 kilos (10,000 lbs.)



TYPE B



TYPE C





Triplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	56.35	E10B11	16	24	37	55	0.68
12	61.34	E10B12	16	29	43	55	0.82
13	66.33	E10B13	16	34	48	55	1.05
14	71.34	E10B14	16	35	53	55	1.23
15	76.35	E10B15	16	38	58	55	1.36
16	81.37	E10B16	16	42	63	60	1.55
17	86.39	E10B17	16	45	68	60	1.81
18	91.42	E10B18	16	48	73	60	2.09
19	96.45	E10B19	16	52	79	60	2.40
20	101.48	E10B20	16	56	84	60	2.72
21	106.51	E10B21	20	56	85	60	3.04
22	111.55	E10B22	20	60	90	60	3.36
23	116.59	E10B23	20	62	95	60	3.67
24	121.62	E10B24	20	64	100	60	4.00
25	126.66	E10B25	20	68	105	60	4.31
26	131.70	E10B26	20	73	110	60	5.18
27	136.74	E10B27	20	73	110	60	5.63
28	141.79	E10B28	20	76	115	60	6.04
29	146.83	E10B29	20	76	115	60	6.22
30	151.87	E10B30	20	80	120	60	6.36
32	161.96	E10B32	20	80	120	60	7.26
35	177.10	E10B35	20	80	120	60	8.60
36	182.15	E10B36	25	80	120	60	9.34
38	192.24	E10B38	25	80	120	60	11.03
45	227.58	E10B45	30	80	120	75	14.94
48	242.73	E10B48	30	80	120	75	16.62
57	288.18	E10B57	32	80	120	75	21.77
60	303.33	E10B60	32	80	120	75	22.22
76	384.15	E10C76	32	80	120	89	23.13
80	404.36	E10C80	32	80	120	89	25.14
95	480.14	E10C95	32	80	120	95	32.66
114	576.13	E10C114	32	80	120	95	44.76

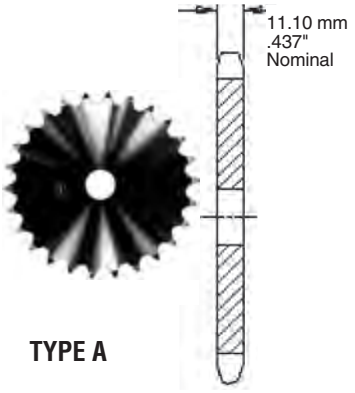
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Metric Sprockets

ISO 12B-1
METRIC 60

0.750 INCH (19.05 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/13
ISO 12B-1
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 2,950 kilos (6500 lbs.)



TYPE A





TYPE B

Simplex - Type B — Steel

Simplex - Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight	Catalog Number	Bore	Weight
			Stock MM	Max. MM	Dia. MM	Thru MM	Approx. (kg)		Stock MM	Approx. (kg)
11	67.62	12B11	12	32	47	35	0.53	12A11	14	0.36
12	73.60	12B12	12	35	53	35	0.67	12A12	14	0.42
13	79.60	12B13	12	38	59	35	0.75	12A13	14	0.48
14	85.61	12B14	12	42	64	35	0.91	12A14	14	0.54
15	91.63	12B15	12	45	70	35	1.14	12A15	14	0.60
16	97.65	12B16	16	50	75	35	1.27	12A16	14	0.68
17	103.67	12B17	16	52	80	35	1.46	12A17	14	0.77
18	109.71	12B18	16	52	80	35	1.69	12A18	14	0.85
19	115.74	12B19	16	60	90	35	1.78	12A19	14	0.95
20	121.78	12B20	16	64	90	35	2.10	12A20	14	1.08
21	127.82	12B21	20	64	100	40	2.27	12A21	16	1.15
22	133.86	12B22	20	64	100	40	2.38	12A22	16	1.24
23	139.90	12B23	20	67	100	40	2.49	12A23	16	1.33
24	145.95	12B24	20	67	100	40	2.62	12A24	19	1.47
25	151.99	12B25	20	67	100	40	2.78	12A25	19	1.63
26	158.04	12B26	20	67	100	40	2.89	12A26	19	1.72
27	164.09	12B27	20	67	100	40	3.05	12A27	19	1.91
28	170.14	12B28	20	67	100	40	3.12	12A28	19	1.99
29	176.19	12B29	20	67	100	40	3.30	12A29	19	2.44
30	182.25	12B30	20	67	100	40	3.44	12A30	19	2.28
31	188.30	12B31	20	67	100	40	3.50	12A31	19	2.49
32	194.35	12B32	20	67	100	40	3.75	12A32	19	2.62
33	200.41	12B33	20	67	100	40	3.82	12A33	19	2.77
34	206.46	12B34	20	67	100	40	3.99	12A34	19	2.91
35	212.52	12B35	20	67	100	40	4.10	12A35	19	3.19
36	218.57	12B36	20	67	100	40	4.35	12A36	19	3.21
37	224.63	12B37	20	67	100	40	4.64	12A37	19	3.52
38	230.69	12B38	25	70	107	40	4.92	12A38	24	3.67
39	236.74	12B39	25	70	107	40	5.15	12A39	24	3.87
40	242.80	12B40	25	70	107	40	5.22	12A40	24	4.00
41	248.86	12B41	25	70	107	40	5.51	12A41	24	4.24
42	254.92	12B42	25	70	107	40	5.78	12A42	24	4.53
43	260.98	12B43	25	70	107	40	5.90	12A43	24	4.58
44	267.03	12B44	25	70	107	40	6.30	12A44	25	4.99
45	273.09	12B45	25	70	107	40	6.34	12A45	25	5.14
46	279.15	12B46	25	70	107	40	6.62	12A46	25	5.33
47	285.21	12B47	25	70	107	40	6.80	12A47	25	5.70
48	291.27	12B48	25	70	107	40	7.18	12A48	25	5.75
50	303.39	12B50	25	70	107	40	8.01	12A50	25	6.45
54	327.63	12B54	32	70	110	45	9.80	12A54	32	7.33
57	345.81	12B57	32	70	110	45	10.10	12A57	32	8.11
60	363.99	12B60	32	70	110	45	11.44	12A60	32	9.19
65	394.30	12B65	32	70	110	45	13.12	12A65	32	10.65
70	424.61	12B70	32	70	110	45	14.51	12A70	32	12.45
72	436.73	12B72	32	80	120	50	15.50	12A72	32	13.22
76	460.98	12B76	32	80	120	50	17.26	12A76	32	14.78
80	485.23	12B80	32	80	120	50	19.00	12A80	32	20.75
84	509.48	12B84	32	80	120	50	21.07	12A84	32	21.78
95	576.17	12B95	32	92	140	55	23.83	12A95	32	23.46
96	582.23	12B96	32	92	140	55	26.61	12A96	32	23.71
114	691.36	12B114	32	92	140	55	33.98	12A114	32	28.16

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

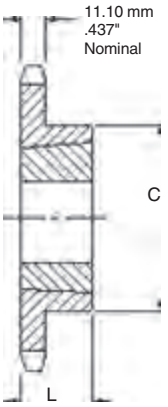
ISO 12B-1
METRIC 60

Metric Sprockets

CHAIN DATA:
BS 228/13
ISO 12B-1
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 2,950 kilos (6500 lbs.)

0.750 INCH (19.05 mm) PITCH SIMPLEX





TYPE B

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
11	67.62	12BTB11H	1008	25.40	22.23	46.04	0.27	0.14
12	73.61	12BTB12H	1008	25.40	22.23	49.21	0.36	0.14
13	79.60	12BTB13H	1210	31.75	25.40	62.69	0.41	0.27
14	85.61	12BTB14H	1210	31.75	25.40	62.69	0.45	0.27
15	91.63	12BTB15H	1610	41.28	25.40	70.64	0.54	0.41
16	97.65	12BTB16H	1610	41.28	25.40	76.20	0.73	0.41
17	103.67	12BTB17H	1610	41.28	25.40	82.55	0.82	0.41
18	109.70	12BTB18H	1610	41.28	25.40	82.55	0.91	0.41
19	115.74	12BTB19H	1610	41.28	25.40	82.55	1.00	0.41
20	121.78	12BTB20H	2012	50.80	31.75	90.47	1.00	0.77
21	127.82	12BTB21H	2012	50.80	31.75	90.47	1.18	0.77
22	133.86	12BTB22H	2012	50.80	31.75	90.47	1.27	0.77
23	139.90	12BTB23H	2012	50.80	31.75	90.47	1.27	0.77
24	145.95	12BTB24H	2012	50.80	31.75	90.47	1.50	0.77
25	151.99	12BTB25H	2012	50.80	31.75	90.47	1.74	0.77
26	158.04	12BTB26H	2012	50.80	31.75	90.47	1.74	0.77
27	164.09	12BTB27H	2012	50.80	31.75	90.47	1.80	0.77
28	170.14	12BTB28H	2012	50.80	31.75	90.47	2.04	0.77
30	182.25	12BTB30H	2012	50.80	31.75	90.47	2.32	0.77
32	194.35	12BTB32	2012	50.80	31.75	90.47	2.48	0.77
35	212.52	12BTB35	2012	50.80	31.75	90.47	2.71	0.77
36	218.57	12BTB36	2012	50.80	31.75	90.47	2.78	0.77
38	230.69	12BTB38	2012	50.80	31.75	90.47	3.36	0.77
40	242.80	12BTB40	2012	50.80	31.75	90.47	3.53	0.77
42	254.92	12BTB42	2012	50.80	31.75	90.47	3.71	0.77
45	273.09	12BTB45	2012	50.80	31.75	90.47	3.98	0.77
48	291.27	12BTB48	2012	50.80	31.75	90.47	4.24	0.77
54	327.63	12BTB54	2517	63.50	44.45	107.95	8.30	1.59
57	345.81	12BTB57	2517	63.50	44.45	107.95	8.76	1.59
60	363.99	12BTB60	2517	63.50	44.45	107.95	9.22	1.59
68	412.49	12BTB68	2517	63.50	44.45	107.95	10.45	1.59
70	424.61	12BTB70	2517	63.50	44.45	107.95	10.76	1.59
72	436.73	12BTB72	2517	63.50	44.45	107.95	11.06	1.59
76	460.98	12BTB76	2517	63.50	44.45	107.95	11.68	1.59
84	509.48	12BTB84	2517	63.50	44.45	107.95	12.91	1.59
95	576.17	12BTB95	2517	63.50	44.45	107.95	14.60	1.59
96	582.23	12BTB96	2517	63.50	44.45	107.95	14.75	1.59
114	691.36	12BTB114	2517	63.50	44.45	107.95	17.52	1.59

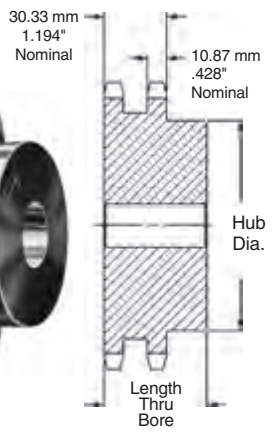
Sprockets with “H” suffix have hardened teeth.

Metric Sprockets

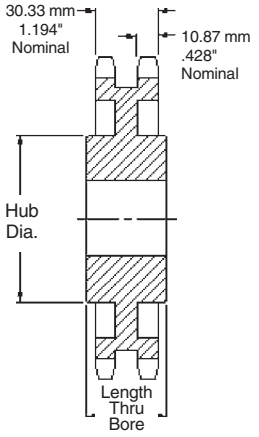
ISO 12B-2
METRIC 60-2

0.750 INCH (19.05 mm) PITCH DUPLEX





TYPE B



TYPE C

CHAIN DATA:
BS 228/13
ISO 12B-2
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 5,900 kilos (13,000 lbs.)

Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	67.62	D12B11	16	32	47	50	1.00
12	73.60	D12B12	16	36	53	50	1.23
13	79.60	D12B13	16	38	59	50	1.41
14	85.61	D12B14	16	42	65	50	1.68
15	91.63	D12B15	16	45	71	50	1.95
16	97.65	D12B16	20	51	77	50	2.27
17	103.67	D12B17	20	54	83	50	2.63
18	109.70	D12B18	20	60	89	50	3.18
19	115.74	D12B19	20	62	95	50	3.50
20	121.78	D12B20	20	64	100	50	3.72
21	127.82	D12B21	20	64	100	50	4.31
22	133.86	D12B22	20	64	100	50	4.77
23	139.90	D12B23	20	73	110	50	4.99
24	145.95	D12B24	20	73	110	50	5.45
25	151.99	D12B25	20	80	120	50	5.67
26	158.04	D12B26	20	80	120	50	6.13
27	164.09	D12B27	20	80	120	50	6.49
28	170.14	D12B28	20	80	120	50	6.81
29	176.19	D12B29	20	80	120	50	7.13
30	182.25	D12B30	20	80	120	50	7.49
32	194.35	D12B32	20	85	130	50	9.31
35	212.52	D12B35	20	85	130	50	10.18
36	218.57	D12B36	25	85	130	50	12.31
38	230.69	D12B38	25	85	130	50	12.99
40	242.80	D12B40	25	85	130	50	13.67
45	273.09	D12B45	25	85	130	50	15.38
48	291.27	D12B48	25	85	130	50	16.41
57	345.81	D12B57	32	85	130	65	25.34
60	363.99	D12B60	32	85	130	65	26.67
68	412.49	D12C68	32	85	130	75	30.48
76	460.98	D12C76	40	85	130	75	25.63
80	485.23	D12C80	40	85	130	75	26.98
95	576.17	D12C95	40	93	140	85	39.24
96	582.23	D12C96	40	93	140	85	39.65
114	691.36	D12C114	40	93	140	85	41.86

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

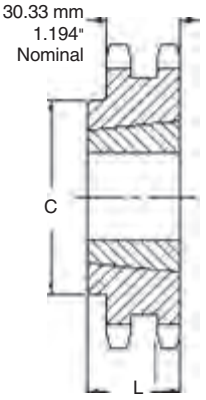
ISO 12B-2
METRIC 60-2

Metric Sprockets

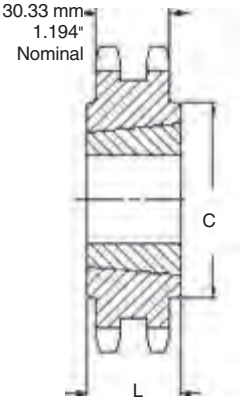
CHAIN DATA:
BS 228/13
ISO 12B-2
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 5,900 kilos (13000 lbs.)

0.750 INCH (19.05 mm) PITCH DUPLEX





TYPE B



TYPE C

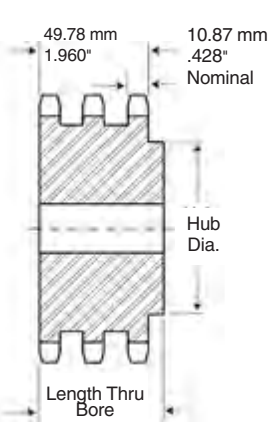
Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
12	73.60	D12BTB12	1215	31.75	38.10	53.54	0.61	0.73
13	79.60	D12BTB13	1215	31.75	38.10	59.74	0.66	0.77
14	85.61	D12BTB14	1215	31.75	38.10	65.91	0.84	0.82
15	91.63	D12BTB15	1615	41.28	38.10	72.09	0.70	0.77
16	97.65	D12BTB16	1615	41.28	38.10	76.20	1.11	0.77
17	103.67	D12BTB17	1615	41.28	38.10	82.93	1.25	0.77
18	109.70	D12BTB18	2012	50.80	31.75	90.50	1.56	0.77
19	115.74	D12BTB19	2012	50.80	31.75	96.6	1.81	0.77
20	121.78	D12BTB20	2517	63.50	44.45	102.00	2.04	1.59
21	127.82	D12BTB21	2517	63.50	44.45	107.95	2.50	1.59
22	133.86	D12BTB22	2517	63.50	44.45	107.95	2.78	1.59
23	139.90	D12BTB23	2517	63.50	44.45	107.95	3.07	1.59
24	145.95	D12BTB24	2517	63.50	44.45	107.95	3.35	1.59
25	151.99	D12BTB25	2517	63.50	44.45	107.95	3.63	1.59
26	158.04	D12BTB26	2517	63.50	44.45	107.95	3.91	1.59
27	164.09	D12BTB27	2517	63.50	44.45	107.95	4.20	1.59
28	170.14	D12BTB28	2517	63.50	44.45	107.95	4.48	1.59
30	182.25	D12BTB30	2517	63.50	44.45	107.95	5.04	1.59
32	194.35	D12BTB32	2517	63.50	44.45	107.95	5.61	1.59
35	212.52	D12BTB35	2517	63.50	44.45	107.95	6.46	1.59
38	230.69	D12CTB38	2517	63.50	44.45	107.95	8.40	1.59
40	242.80	D12CTB40	2517	63.50	44.45	107.95	9.56	1.59
42	254.92	D12CTB42	2517	63.50	44.45	107.95	10.73	1.59
45	273.09	D12CTB45	2517	63.50	44.45	107.95	12.48	1.59
48	291.27	D12CTB48	2517	63.50	44.45	107.95	14.23	1.59
54	327.63	D12CTB54	2517	63.50	44.45	107.95	17.73	1.59
57	345.81	D12CTB57	2517	63.50	44.45	107.95	19.48	1.59
60	363.99	D12CTB60	2517	63.50	44.45	107.95	21.23	1.59
65	394.30	D12CTB65	2517	63.50	44.45	107.95	24.15	1.59
70	424.61	D12CTB70	2517	63.50	44.45	107.95	27.06	1.59
75	454.92	D12CTB75	3020	76.20	50.80	133.35	19.27	2.95
76	460.98	D12CTB76	3020	76.20	50.80	133.35	19.52	2.95
84	509.48	D12CTB84	3020	76.20	50.80	133.35	21.58	2.95
95	576.17	D12CTB95	3020	76.20	50.80	133.35	24.40	2.95
96	582.23	D12CTB96	3020	76.20	50.80	133.35	24.66	2.95
114	691.36	D12CTB114	3020	76.20	50.80	133.35	29.28	2.95

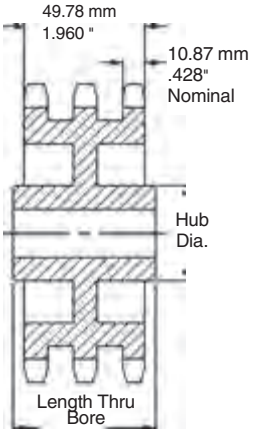
0.750 INCH (19.05 mm) PITCH TRIPLEX

CHAIN DATA:
BS 228/13
ISO 12B-3
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 8,850 kilos (19,500 lbs.)





TYPE B



TYPE C

Triplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	67.62	E12B11	20	32	47	70	1.13
12	73.60	E12B12	20	36	53	70	1.50
13	79.60	E12B13	20	38	59	70	1.77
14	85.61	E12B14	20	42	65	70	2.04
15	91.63	E12B15	20	45	71	70	2.45
16	97.65	E12B16	20	51	77	70	2.95
17	103.67	E12B17	20	54	83	70	3.49
18	109.70	E12B18	20	60	89	70	3.86
19	115.74	E12B19	20	62	95	70	4.54
20	121.78	E12B20	20	64	100	70	5.08
21	127.82	E12B21	20	64	100	70	5.67
22	133.86	E12B22	20	64	100	70	5.99
23	139.90	E12B23	20	73	110	70	6.62
24	145.95	E12B24	20	73	110	70	7.17
25	151.99	E12B25	20	80	120	70	7.71
26	158.04	E12B26	20	80	120	70	8.44
27	164.09	E12B27	20	80	120	70	8.99
28	170.14	E12B28	20	80	120	70	9.49
29	176.19	E12B29	20	80	120	70	9.99
30	182.25	E12B30	20	80	120	70	10.53
35	212.52	E12B35	25	85	130	70	18.95
36	218.57	E12B36	25	85	130	70	19.49
38	230.69	E12B38	25	85	130	70	20.57
45	273.10	E12B45	25	85	130	70	24.36
48	291.27	E12B48	25	85	130	70	25.98
57	345.81	E12C57	32	82	130	85	33.73
60	363.99	E12C60	32	82	130	85	35.51
68	412.49	E12C68	32	82	130	85	40.24
76	460.98	E12C76	40	95	140	85	37.19
80	485.23	E12C80	40	95	140	85	39.15
95	576.17	E12C95	40	95	140	100	47.63

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 16B-1
METRIC 80

Metric Sprockets

CHAIN DATA:
BS 228/15
ISO 16B-1
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 4,310 kilos (9,500 lbs.)

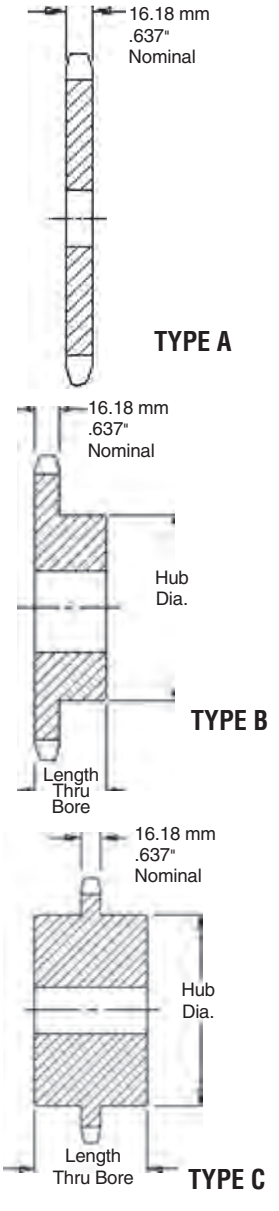
1.00 INCH (25.40 mm) PITCH SIMPLEX

Simplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight
			Stock MM	Max. MM	Dia. MM	Thru MM	Approx. (kg)
11	90.16	16B11	16	41	63	40	1.45
12	98.14	16B12	16	47	72	40	1.82
13	106.14	16B13	16	52	79	40	1.82
14	114.15	16B14	16	60	88	40	2.09
15	122.17	16B15	16	62	96	40	2.59
16	130.20	16B16	20	67	100	45	3.00
17	138.23	16B17	25	67	102	45	3.18
18	146.27	16B18	25	70	108	45	3.77
19	154.32	16B19	25	70	108	45	3.86
20	162.37	16B20	25	70	108	45	4.09
21	170.42	16B21	25	70	108	50	4.54
22	178.48	16B22	25	70	108	50	4.99
23	186.56	16B23	25	70	108	50	5.08
24	194.60	16B24	25	70	108	50	5.54
25	202.66	16B25	25	70	108	50	5.76
26	210.72	16B26	32	80	120	50	7.03
27	218.79	16B27	32	80	120	50	7.53
28	226.86	16B28	32	80	120	50	7.58
29	234.93	16B29	32	80	120	50	7.94
30	243.00	16B30	32	80	120	50	8.26
31	251.07	16B31	32	80	120	50	8.62
32	259.14	16B32	32	80	120	50	8.98
33	267.21	16B33	32	80	120	50	9.33
34	275.28	16B34	32	80	120	50	9.69
35	283.36	16B35	32	80	120	50	10.05
36	291.43	16B36	32	80	120	50	10.41
37	299.51	16B37	32	80	120	50	10.76
38	307.58	16B38	32	80	120	50	11.12
39	315.66	16B39	32	80	120	50	11.48
40	323.74	16B40	32	80	120	50	11.83
41	331.81	16B41	32	80	120	50	12.19
42	339.89	16B42	32	80	120	50	12.55
43	347.97	16B43	32	80	120	50	12.91
44	356.05	16B44	32	80	120	50	13.27
45	364.12	16B45	32	80	120	50	13.62
46	372.20	16B46	32	80	120	50	13.98
47	380.28	16B47	32	80	120	50	14.34
48	388.36	16B48	32	80	120	50	14.70
49	396.44	16B49	32	80	120	50	15.05
50	404.52	16B50	32	80	120	50	15.41
54	436.84	16B54	32	85	130	50	20.99
57	461.08	16B57	32	85	130	50	22.16
60	485.33	16B60	32	85	130	50	23.33
65	525.73	16B65	32	85	130	50	25.27
70	566.15	16C70	40	108	159	90	33.59
72	582.31	16C72	40	108	159	90	35.48
76	614.64	16C76	40	108	159	90	39.24
80	646.97	16C80	40	108	159	90	43.00
84	679.30	16C84	40	108	159	90	46.77
90	727.80	16C90	40	108	159	90	52.41
95	768.22	16C95	40	108	159	90	57.12
96	766.31	16C96	40	108	159	90	58.06
114	921.81	16C114	40	108	159	90	75.00

Simplex - Type A — Steel

Catalog Number	Bore Stock MM	Weight Approx. (kg)
16A11	14	0.82
16A12	14	0.91
16A13	14	1.04
16A14	14	1.22
16A15	14	1.36
16A16	14	1.54
16A17	14	1.81
16A18	24	2.00
16A19	24	2.13
16A20	24	2.49
16A21	24	2.63
16A22	24	2.82
16A23	24	3.04
16A24	24	3.45
16A25	24	3.63
16A26	30	3.90
16A27	30	4.31
16A28	30	4.58
16A29	30	4.81
16A30	32	5.22
16A31	32	5.56
16A32	32	5.90
16A33	32	6.24
16A34	32	6.58
16A35	32	6.92
16A36	32	7.26
16A37	32	7.60
16A38	32	7.94
16A39	32	8.48
16A40	32	9.01
16A41	32	9.55
16A42	32	10.09
16A43	32	10.62
16A44	32	11.16
16A45	32	11.70
16A46	32	12.23
16A47	32	12.77
16A48	32	12.31
16A49	32	13.85
16A50	32	14.38
16A54	32	16.53
16A57	32	18.14
16A60	32	19.75
16A65	32	22.43
16A70	40	25.47
16A72	40	27.94
16A76	40	32.89
16A80	40	37.84
16A84	40	42.78
16A90	40	50.21
16A95	40	56.39
16A96	40	57.63
16A114	40	76.36



Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

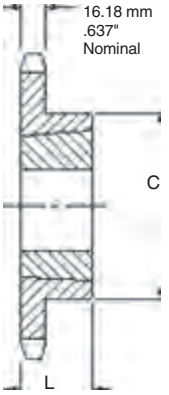
Metric Sprockets

ISO 16B-1
METRIC 80

1.00 INCH (25.40 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/15
ISO 16B-1
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 4,310 KILOS (9,500 lbs.)





TYPE B

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
10	82.20	16BTB10H	1215	31.75	38.10	62.69	0.73	0.36
11	90.16	16BTB11H	1215	31.75	38.10	62.69	0.91	0.36
12	98.14	16BTB12H	1615	41.28	38.10	76.20	1.04	0.54
13	106.14	16BTB13H	1615	41.28	38.10	76.20	1.27	0.54
14	114.15	16BTB14H	1615	41.28	38.10	82.55	1.36	0.54
15	122.17	16BTB15H	1615	41.28	38.10	82.55	1.45	0.54
16	130.20	16BTB16H	2012	50.80	31.75	90.47	1.55	0.77
17	138.23	16BTB17H	2012	50.80	31.75	90.47	1.69	0.77
18	146.27	16BTB18H	2012	50.80	31.75	90.47	1.46	0.77
19	154.32	16BTB19H	2012	50.80	31.75	90.47	2.14	0.77
20	162.37	16BTB20H	2517	63.50	44.45	107.95	2.72	1.59
21	170.42	16BTB21H	2517	63.50	44.45	107.95	2.95	1.59
22	178.48	16BTB22H	2517	63.50	44.45	107.95	3.18	1.59
23	186.54	16BTB23H	2517	63.50	44.45	107.95	3.40	1.59
24	194.60	16BTB24H	2517	63.50	44.45	107.95	3.63	1.59
25	202.66	16BTB25H	2517	63.50	44.45	107.95	3.90	1.59
26	210.72	16BTB26H	2517	63.50	44.45	107.95	4.22	1.59
27	218.79	16BTB27H	2517	63.50	44.45	107.95	4.31	1.59
28	226.86	16BTB28H	2517	63.50	44.45	107.95	4.54	1.59
30	243.00	16BTB30H	2517	63.50	44.45	107.95	5.44	1.59
32	259.14	16BTB32	2517	63.50	44.45	107.95	5.67	1.59
35	283.36	16BTB35	2517	63.50	44.45	107.95	7.12	1.59
36	291.43	16BTB36	2517	63.50	44.45	107.95	7.94	1.59
38	307.58	16BTB38	2517	63.50	44.45	107.95	8.85	1.59
40	323.74	16BTB40	2517	63.50	44.45	107.95	9.75	1.59
45	364.12	16BTB45	2517	63.50	44.45	107.95	12.25	1.59
48	388.36	16BTB48	2517	63.50	44.45	107.95	13.61	1.59
54	436.84	16BTB54	2517	63.50	44.45	107.95	17.69	1.59
57	461.07	16BTB57	2517	63.50	44.45	107.95	19.16	1.59
60	485.33	16BTB60	2517	63.50	44.45	107.95	20.64	1.59
64	517.65	16BTB64	3020	76.20	50.80	133.35	19.35	2.95
70	566.15	16BTB70	3020	76.20	50.80	133.35	23.95	2.95
76	614.64	16BTB76	3020	76.20	50.80	133.35	28.55	2.95
80	646.97	16BTB80	3020	76.20	50.80	133.35	31.62	2.95
84	679.30	16BTB84	3020	76.20	50.80	133.35	34.68	2.95
95	768.22	16BTB95	3020	76.20	50.80	133.35	41.58	2.95
114	921.81	16BTB114	3020	76.20	50.80	133.35	56.15	2.95

Sprockets with “H” suffix have hardened teeth.

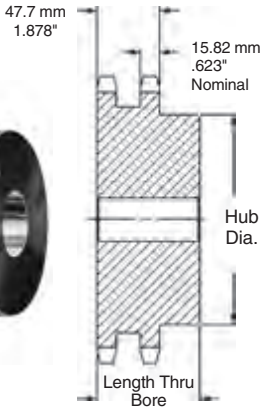
ISO 16B-2
METRIC 80-2

Metric Sprockets

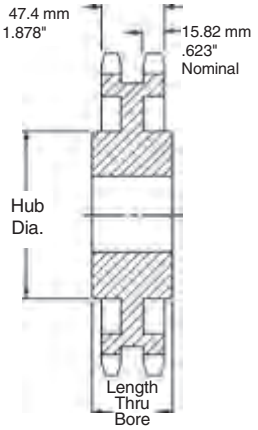
CHAIN DATA:
BS 228/15
ISO 16B-2
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 8,620 kilos (19,000 lbs.)

1.00 INCH (25.40 mm) PITCH DUPLEX





TYPE B



TYPE C

Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	90.16	D16B11	20	42	63	70	1.82
12	98.14	D16B12	20	45	72	70	2.36
13	106.14	D16B13	20	52	80	70	2.95
14	114.15	D16B14	20	53	88	70	3.50
15	122.17	D16B15	20	62	96	70	4.18
16	130.20	D16B16	20	66	104	70	5.22
17	138.23	D16B17	20	74	112	70	5.99
18	146.27	D16B18	20	80	120	70	6.81
19	154.32	D16B19	20	84	128	70	7.71
20	162.37	D16B20	20	85	130	70	8.26
21	170.42	D16B21	25	85	130	70	8.85
22	178.28	D16B22	25	85	130	70	9.53
23	186.54	D16B23	25	85	130	70	10.43
24	194.60	D16B24	25	85	130	70	11.44
25	202.66	D16B25	25	85	130	70	12.47
26	210.72	D16B26	25	85	130	70	13.62
27	218.79	D16B27	25	85	130	70	14.75
28	226.86	D16B28	25	85	130	70	15.89
29	234.93	D16B29	25	85	130	70	17.02
30	243.00	D16B30	25	95	145	75	18.16
32	259.14	D16B32	32	95	145	75	19.86
35	283.36	D16B35	32	95	145	75	22.27
36	291.43	D16B36	32	95	145	80	28.04
38	307.58	D16B38	32	95	145	80	29.60
42	339.89	D16B42	40	95	145	80	32.20
45	364.12	D16C45	40	95	145	95	34.35
57	461.07	D16C57	40	95	145	95	38.18
60	485.33	D16C60	40	95	145	95	42.77
68	549.98	D16C68	40	96	153	102	43.86
76	614.64	D16C76	40	96	152	102	68.11
80	646.97	D16C80	40	102	152	108	54.88
95	768.22	D16C95	40	102	152	108	72.57
114	921.81	D16C114	40	102	152	108	78.22

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

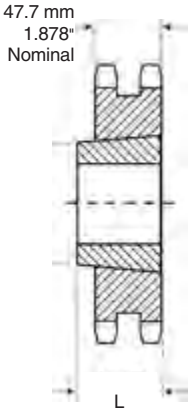
Metric Sprockets

ISO 16B-2
METRIC 80-2

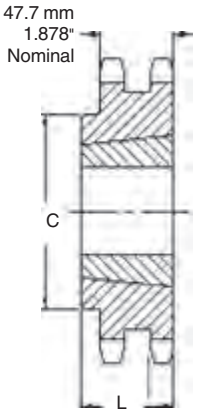
1.00 INCH (25.40 mm) PITCH DUPLEX

CHAIN DATA:
BS 228/15
ISO 16B-2
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 8,620 kilos (19,000 lbs.)

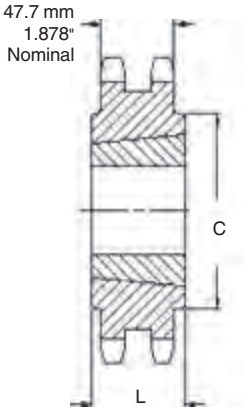




TYPE A



TYPE B



TYPE C

Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
13	106.14	D16ATB13	1615	41.28	38.10	–	1.54	0.77
14	114.15	D16ATB14	2012	50.80	31.75	–	1.68	0.77
15	122.17	D16ATB15	2012	50.80	31.75	–	2.04	0.77
16	130.20	D16ATB16	2012	50.80	31.75	–	2.27	0.77
17	138.23	D16ATB17	2517	63.50	44.45	–	2.50	1.59
18	146.27	D16ATB18	2517	63.50	44.45	–	2.64	1.59
19	154.32	D16BTB19	3020	76.20	50.80	127.00	3.18	2.95
20	162.37	D16BTB20	3020	76.20	50.80	133.35	3.45	2.95
21	170.42	D16BTB21	3020	76.20	50.80	141.28	4.09	2.95
22	178.48	D16BTB22	3020	76.20	50.80	149.23	4.73	2.95
23	186.54	D16BTB23	3020	76.20	50.80	158.34	5.48	2.95
24	194.60	D16BTB24	3020	76.20	50.80	166.68	6.34	2.95
25	202.66	D16BTB25	3020	76.20	50.80	174.63	7.72	2.95
26	210.72	D16BTB26	3020	76.20	50.80	182.56	8.36	2.95
27	218.79	D16BTB27	3020	76.20	50.80	133.35	10.22	2.95
28	226.86	D16BTB28	3020	76.20	50.80	133.35	10.59	2.95
30	243.00	D16CTB30	3020	76.20	50.80	133.35	11.35	2.95
35	283.36	D16CTB35	3020	76.20	50.80	133.35	17.88	2.95
38	307.58	D16CTB38	3020	76.20	50.80	133.35	21.79	2.95
42	339.89	D16CTB42	3020	76.20	50.80	133.35	22.94	2.95
45	364.12	D16CTB45	3020	76.20	50.80	133.35	23.80	2.95
57	461.08	D16CTB57	3020	76.20	50.80	133.35	27.24	2.95
76	614.64	D16CTB76	3020	76.20	50.80	133.35	37.68	2.95
95	768.22	D16CTB95	3020	76.20	50.80	133.35	43.13	2.95
114	921.81	D16CTB114	3020	76.20	50.80	133.35	48.58	2.95

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 16B-3
METRIC 80-3

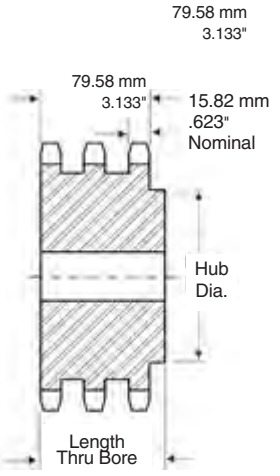
Metric Sprockets

CHAIN DATA:
BS 228/15
ISO 16B-3
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 12,930 kilos (28,500 lbs.)

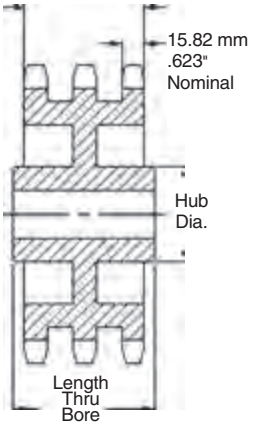
1.00 INCH (25.40 mm) PITCH TRIPLEX







TYPE B



TYPE C

Triplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	90.16	E16B11	25	42	63	100	2.72
12	98.14	E16B12	25	45	72	100	3.59
13	106.14	E16B13	25	52	80	100	4.13
14	114.15	E16B14	25	58	88	100	4.68
15	122.17	E16B15	25	62	96	100	5.54
16	130.20	E16B16	30	66	104	100	6.81
17	138.23	E16B17	30	74	112	100	8.07
18	146.27	E16B18	30	80	120	100	9.99
19	154.32	E16B19	30	84	128	100	10.89
20	162.37	E16B20	30	85	130	100	11.80
21	170.42	E16B21	30	85	130	100	13.61
22	178.48	E16B22	30	85	130	100	14.07
23	186.54	E16B23	30	85	130	100	14.97
24	194.60	E16B24	30	85	130	100	16.34
25	202.66	E16B25	30	85	130	100	17.70
26	210.72	E16B26	30	85	130	100	19.98
27	218.79	E16B27	30	85	130	100	21.57
28	226.86	E16B28	30	85	130	100	23.15
29	234.93	E16B29	30	85	130	100	24.74
30	243.00	E16B30	32	95	140	105	26.33
35	283.36	E16B35	32	95	140	105	36.06
36	291.43	E16B36	32	95	140	105	38.06
38	307.58	E16C38	32	97	152	114	41.45
42	339.89	E16C42	40	97	152	114	38.51
45	364.12	E16C45	40	97	152	114	41.91
57	461.08	E16C57	40	107	159	120	51.35
60	485.33	E16C60	40	107	159	120	58.06
68	549.98	E16C68	40	107	159	120	63.50
76	614.64	E16C76	40	107	159	120	77.11
95	768.22	E16C95	40	114	171	127	100.70
114	921.81	E16C114	40	114	171	127	120.84

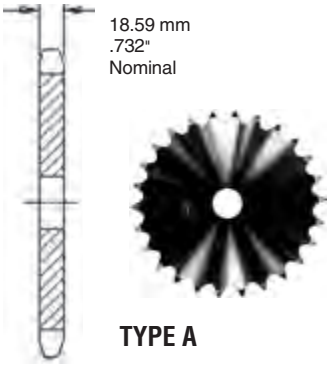
Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Martin Metric Sprockets

ISO 20B-1
METRIC 100

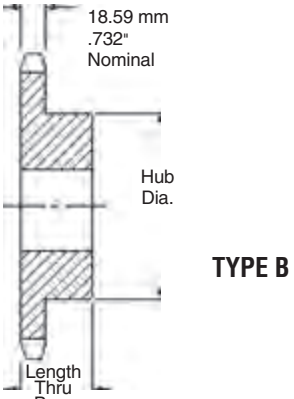
1.25 INCH (31.75 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/17
ISO 20B-1
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 6,580 kilos (14,500 lbs.)

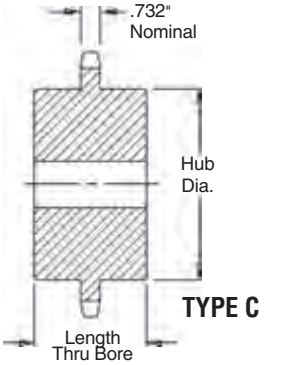


TYPE A





TYPE B



TYPE C

Simplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
8	82.97	20B8	25	57	48	48	1.04
9	92.83	20B9	25	57	58	48	1.45
10	102.75	20B10	25	60	69	48	1.86
11	112.70	20B11	25	70	79	48	2.40
12	122.67	20B12	25	76	90	48	2.95
13	132.67	20B13	25	76	98	41	3.00
14	142.68	20B14	25	76	106	41	3.40
15	152.71	20B15	25	76	114	44	4.31
16	162.75	20B16	25	76	114	44	4.63
17	172.79	20B17	32	76	114	44	4.99
18	182.84	20B18	32	76	114	44	5.44
19	192.90	20B19	32	76	114	51	5.90
20	202.96	20B20	32	76	114	51	6.35
21	213.03	20B21	32	76	114	51	7.03
22	223.10	20B22	32	76	114	51	7.71
23	233.17	20B23	32	84	114	51	8.16
24	243.25	20B24	32	84	114	51	8.62
25	253.32	20B25	32	84	114	51	9.07
26	263.41	20B26	32	84	127	51	9.53
27	273.49	20B27	32	84	127	51	10.43
28	283.57	20B28	32	84	127	51	11.34
29	293.66	20B29	32	84	127	51	11.76
30	303.75	20B30	32	84	127	51	12.02
31	313.83	20B31	32	84	127	51	12.77
32	323.92	20B32	32	84	127	51	13.52
33	334.01	20B33	32	84	127	51	14.59
34	344.10	20B34	32	84	127	51	15.66
35	354.20	20B35	32	84	127	64	16.74
36	364.29	20B36	32	84	127	64	17.51
37	374.38	20B37	32	84	127	64	18.17
38	384.48	20B38	32	84	127	64	18.82
39	394.57	20B39	32	84	127	64	19.78
40	404.67	20B40	32	84	127	64	21.27
41	414.77	20B41	32	84	127	64	22.07
42	424.88	20B42	32	84	127	64	22.86
43	434.96	20B43	32	84	127	64	23.40
44	445.06	20B44	32	84	127	64	23.95
45	455.15	20B45	32	84	127	64	24.49
46	465.25	20B46	32	84	127	64	26.31
47	475.35	20B47	32	84	127	64	28.12
48	485.45	20B48	40	102	152	64	29.94
49	495.55	20B49	40	102	152	64	31.76
50	505.65	20B50	40	102	152	64	33.57
51	515.75	20B51	40	102	152	64	35.39
52	525.85	20B52	40	102	152	64	37.21
53	535.95	20B53	40	102	152	64	39.02
54	546.05	20C54	40	102	152	82	32.90
55	556.15	20C55	40	102	152	82	34.77
56	566.25	20C56	40	102	152	82	36.63
57	576.35	20C57	40	102	152	82	38.50
58	586.45	20C58	40	102	152	82	40.37
59	596.56	20C59	40	102	152	82	42.24
60	606.66	20C60	40	102	152	82	44.10
70	707.68	20C70	40	133	178	95	65.36
72	727.89	20C72	40	133	178	95	67.23
76	768.30	20C76	40	133	178	95	70.98
80	808.71	20C80	40	133	178	95	74.70
84	849.13	20C84	40	133	178	95	78.43
90	909.76	20C90	40	133	178	95	84.03
95	960.28	20C95	40	133	178	114	117.18
96	970.38	20C96	40	133	178	114	117.56
114	1152.27	20C114	40	133	178	114	124.40

Simplex - Type A — Steel

Catalog Number	Bore Stock MM	Weight Approx. (kg)
20A8	25	0.63
20A9	25	0.95
20A10	25	1.27
20A11	25	1.59
20A12	25	1.91
20A13	25	2.18
20A14	25	2.49
20A15	25	2.68
20A16	24	3.08
20A17	24	3.54
20A18	30	3.81
20A19	30	4.31
20A20	30	4.58
20A21	32	5.17
20A22	32	5.72
20A23	32	5.99
20A24	32	6.62
20A25	32	6.94
20A26	32	7.62
20A27	32	8.35
20A28	32	8.85
20A29	32	9.43
20A30	32	9.98
20A31	32	10.73
20A32	32	11.49
20A33	32	12.24
20A34	32	13.00
20A35	32	13.75
20A36	32	14.50
20A37	32	15.25
20A38	32	16.01
20A39	32	16.76
20A40	32	17.52
20A41	32	18.27
20A42	32	19.03
20A43	32	19.78
20A44	32	20.53
20A45	32	21.29
20A46	32	22.04
20A47	32	22.79
20A48	32	23.55
20A49	32	24.30
20A50	32	25.06
20A51	40	24.43
20A52	40	25.85
20A53	40	27.27
20A54	40	25.70
20A55	40	30.12
20A56	40	31.34
20A57	40	32.96
20A58	40	35.80
20A59	40	37.22
20A60	40	38.64
20A70	40	52.85
20A72	40	55.70
20A76	40	61.38
20A80	40	67.06
20A84	40	72.75
20A90	40	81.27
20A95	40	102.42
20A96	40	103.84
20A114	40	130.84

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

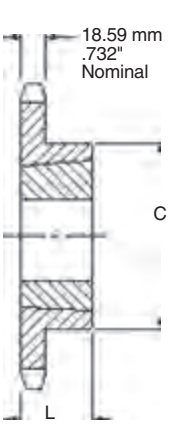
ISO 20B-1
METRIC 100

Metric Sprockets

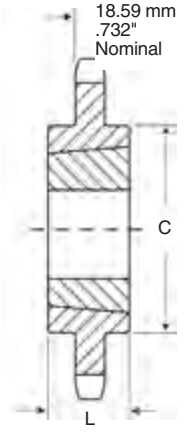
CHAIN DATA:
BS 228/17
ISO 20B1
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 6,580 kilos (14,500 lbs.)

1.25 INCH (31.75 mm) PITCH SIMPLEX





TYPE B



TYPE C

Simplex - Taper Bushed — Steel

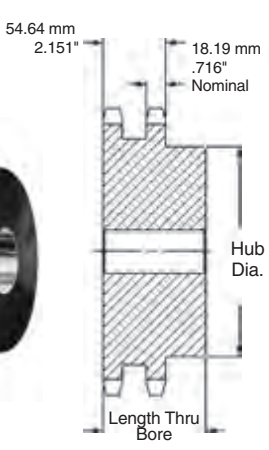
No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
11	112.70	20BTB11H	1615	41.28	38.10	62.69	1.22	0.54
12	122.67	20BTB12H	1615	41.28	38.10	70.64	1.41	0.54
13	132.67	20BTB13H	2012	50.80	31.75	90.47	1.45	0.77
14	142.68	20BTB14H	2012	50.80	31.75	90.47	1.63	0.77
15	152.71	20BTB15H	2517	63.50	44.45	107.95	2.31	1.59
16	162.75	20BTB16H	2517	63.50	44.45	107.95	2.72	1.59
17	172.79	20BTB17H	2517	63.50	44.45	107.95	3.27	1.59
18	182.84	20BTB18H	2517	63.50	44.45	107.95	3.63	1.59
19	192.90	20BTB19H	2517	63.50	44.45	107.95	4.09	1.59
20	202.96	20BTB20H	2517	63.50	44.45	107.95	4.40	1.59
21	213.03	20BTB21H	2517	63.50	44.45	107.95	4.54	1.59
22	223.10	20BTB22H	2517	63.50	44.45	107.95	4.77	1.59
23	233.17	20BTB23H	2517	63.50	44.45	107.95	5.58	1.59
24	243.25	20BTB24H	2517	63.50	44.45	107.95	6.13	1.59
25	253.32	20BTB25H	2517	63.50	44.45	107.95	6.95	1.59
26	263.41	20BTB26H	2517	63.50	44.45	107.95	7.35	1.59
28	283.57	20BTB28H	3020	76.20	50.80	133.35	7.90	2.95
30	303.75	20BTB30H	3020	76.20	50.80	133.35	9.62	2.95
32	323.92	20BTB32	3020	76.20	50.80	133.35	11.03	2.95
35	354.20	20BTB35	3020	76.20	50.80	133.35	13.15	2.95
36	364.29	20BTB36	3020	76.20	50.80	133.35	13.86	2.95
38	384.48	20BTB38	3020	76.20	50.80	133.35	15.98	2.95
40	404.67	20BTB40	3020	76.20	50.80	133.35	19.43	2.95
45	455.15	20BTB45	3020	76.20	50.80	133.35	25.18	2.95
48	485.45	20BTB48	3020	76.20	50.80	133.35	28.62	2.95
54	546.05	20BTB54	3020	76.20	50.80	133.35	35.52	2.95
57	576.35	20BTB57	3020	76.20	50.80	133.35	37.82	2.95
60	606.66	20BTB60	3020	76.20	50.80	133.35	41.27	2.95
70	707.68	20CTB70	3535	88.90	88.90	171.45	51.56	6.35
72	727.89	20CTB72	3535	88.90	88.90	171.45	53.97	6.35
76	768.30	20CTB76	3535	88.90	88.90	171.45	60.33	6.35
80	808.71	20CTB80	3535	88.90	88.90	171.45	66.23	6.35
84	849.13	20CTB84	3535	88.90	88.90	171.45	73.48	6.35
90	909.76	20CTB90	3535	88.90	88.90	171.45	94.33	6.35
95	960.28	20CTB95	3535	88.90	88.90	171.45	96.16	6.35

Sprockets with “H” suffix have hardened teeth.

1.25 INCH (31.75 mm) PITCH DUPLEX

CHAIN DATA:
BS 228/17
ISO 20B-2
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 13,160 kilos (29,000 lbs.)





TYPE B



TYPE C

Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
10	102.75	D20B10	20	45	69	75	2.90
11	112.70	D20B11	20	52	79	80	3.67
12	122.67	D20B12	20	60	90	80	4.31
13	132.67	D20B13	20	64	100	80	5.53
14	142.68	D20B14	20	73	110	80	6.62
15	152.71	D20B15	20	80	120	80	7.76
16	162.75	D20B16	25	80	120	80	9.12
17	172.79	D20B17	25	80	120	80	10.44
18	182.84	D20B18	25	80	120	80	11.71
19	192.90	D20B19	25	80	120	80	12.92
20	202.96	D20B20	25	80	120	80	15.43
21	213.03	D20B21	25	92	140	80	16.55
22	223.10	D20B22	25	92	140	80	17.70
23	233.17	D20B23	25	92	140	80	19.05
24	243.25	D20B24	32	96	145	80	20.43
25	253.32	D20B25	32	96	145	80	21.77
26	263.41	D20B26	32	96	145	80	23.15
27	273.49	D20B27	32	96	145	80	24.97
28	283.57	D20B28	32	96	145	80	26.78
30	303.75	D20B30	32	96	145	80	30.41
32	323.92	D20B32	32	96	145	80	32.22
35	354.20	D20C35	32	100	152	108	34.02
36	364.29	D20C36	32	100	152	108	34.70
38	384.48	D20C38	32	100	152	114	43.72
42	424.86	D20C42	40	100	152	114	43.55
45	455.15	D20C45	40	100	152	114	46.72
57	576.35	D20C57	40	100	191	127	64.10
60	606.66	D20C60	40	125	191	127	79.38
68	687.48	D20C68	40	125	191	127	87.74
76	768.30	D20C76	40	125	191	127	96.11
80	808.71	D20C80	40	125	191	127	100.30
95	960.28	D20C95	40	125	191	127	115.98
114	1152.26	D20C114	40	125	191	127	135.85

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

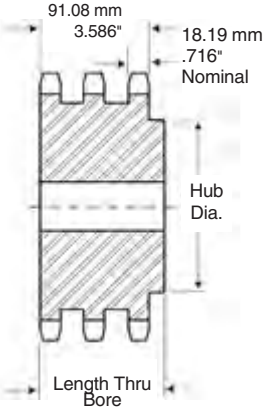
ISO 20B-3
METRIC 100-3

Metric Sprockets

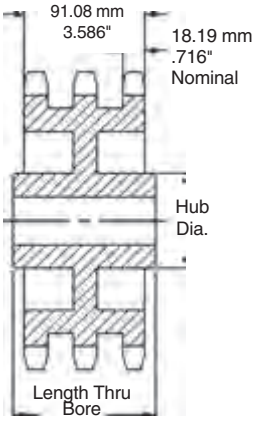
CHAIN DATA:
BS 228/17
ISO 20B-3
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 19,740 kilos (43,500 lbs.)

1.25 INCH (31.75 mm) PITCH TRIPLEX





TYPE B



TYPE C

Triplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
10	102.75	E20B10	25	47	69	110	3.95
11	112.70	E20B11	25	52	79	115	5.26
12	122.67	E20B12	25	60	90	115	6.21
13	132.67	E20B13	25	64	100	115	9.26
14	142.68	E20B14	25	73	110	115	9.76
15	152.71	E20B15	25	80	120	115	10.81
16	162.75	E20B16	25	80	120	115	12.76
17	172.79	E20B17	25	80	120	115	14.76
18	182.84	E20B18	25	80	120	115	16.71
19	192.90	E20B19	25	80	120	115	19.13
20	202.96	E20B20	25	80	120	115	21.57
21	213.03	E20B21	25	92	140	115	23.36
22	223.10	E20B22	25	92	140	115	25.65
23	233.17	E20B23	25	92	140	115	27.90
24	243.25	E20B24	32	95	145	120	27.19
25	253.32	E20B25	32	95	145	120	27.90
26	263.41	E20B26	32	95	145	120	31.90
27	273.49	E20B27	32	95	145	120	35.90
28	283.57	E20B28	32	95	145	120	39.90
30	303.75	E20B30	32	95	145	120	47.90
32	323.92	E20B32	32	95	145	127	51.57
35	354.20	E20C35	32	97	152	127	57.29
36	364.29	E20C36	32	97	152	127	59.35
38	384.48	E20C38	40	97	152	127	62.56
42	424.86	E20C42	40	97	152	127	70.12
45	455.15	E20C45	40	97	152	127	75.84
57	576.35	E20C57	40	102	191	127	100.11
60	606.66	E20C60	40	102	191	127	104.86
68	687.48	E20C68	40	102	191	127	117.54
76	768.30	E20C76	40	102	191	127	130.21
80	808.71	E20C80	40	102	191	127	136.55
95	960.28	E20C95	40	102	191	127	160.31
114	1152.27	E20C114	40	102	191	127	190.41

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

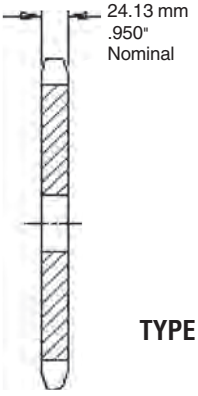
Martin Metric Sprockets

ISO 24B-1
METRIC 120

1.50 INCH (38.10 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/18
ISO 24B-1
PITCH: 38.10 mm (1.50")
ROLLER DIAMETER: 25.40 mm (1.00")
ROLLER WIDTH: 25.40 mm (1.00")
TENSILE: 9,980 kilos (22,000 lbs.)



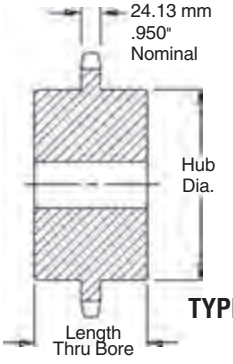


TYPE A





TYPE B



TYPE C

Simplex - Type B/C — Steel

Simplex - Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
9	111.40	24B9	20	45	69	45	2.02	24A9	20	1.69
10	123.29	24B10	20	52	80	45	2.61	24A10	20	1.88
11	135.23	24B11	25	60	90	50	3.77	24A11	20	2.06
12	147.21	24B12	25	67	102	50	4.77	24A12	20	2.68
13	159.20	24B13	25	76	114	50	5.91	24A13	20	3.06
14	171.22	24B14	32	86	127	60	6.68	24A14	32	3.72
15	183.25	24B15	32	92	140	60	7.49	24A15	32	4.31
16	195.29	24B16	32	92	140	60	9.08	24A16	32	4.86
17	207.35	24B17	32	92	140	60	9.76	24A17	32	5.44
18	219.41	24B18	32	92	140	60	10.49	24A18	32	6.13
19	231.48	24B19	32	92	140	60	11.21	24A19	32	7.03
20	243.55	24B20	32	92	140	60	12.26	24A20	32	7.94
21	255.63	24B21	32	92	140	60	13.38	24A21	32	8.62
22	267.72	24B22	32	92	140	60	13.67	24A22	32	9.76
23	179.80	24B23	32	92	140	60	14.74	24A23	32	10.43
24	291.90	24B24	32	92	140	60	15.48	24A24	32	11.35
25	303.99	24B25	32	92	140	60	16.38	24A25	32	12.47
26	316.09	24B26	40	102	150	65	19.43	24A26	40	13.39
27	328.19	24B27	40	102	150	65	20.39	24A27	40	14.53
28	340.29	24B28	40	102	150	65	21.34	24A28	40	15.89
29	352.39	24B29	40	102	150	65	22.79	24A29	40	17.02
30	364.49	24B30	40	102	150	65	24.25	24A30	40	18.39
31	376.60	24B31	40	102	150	65	26.19	24A31	40	20.02
32	388.71	24B32	40	102	150	65	28.12	24A32	40	21.66
33	400.82	24B33	40	102	150	65	30.05	24A33	40	23.29
34	412.93	24B34	40	102	150	65	31.99	24A34	40	24.93
35	425.04	24B35	40	102	150	65	33.93	24A35	40	26.56
36	437.15	24B36	40	102	152	65	35.86	24A36	40	28.19
38	461.37	24B38	40	102	152	65	39.73	24A38	40	31.46
42	509.83	24C42	40	102	152	95	45.31	24A42	40	40.99
45	546.19	24C45	40	102	152	95	50.71	24A45	40	48.14
48	482.54	24C48	40	102	152	102	57.43	24A48	40	55.29
57	691.62	24C57	40	133	178	102	76.05	24A57	40	76.73
60	727.99	24C60	40	133	178	102	80.05	24A60	40	85.19
76	922.00	24C76	40	133	191	114	129.00	24A76	40	116.00

Maximum bores shown will acco mmodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

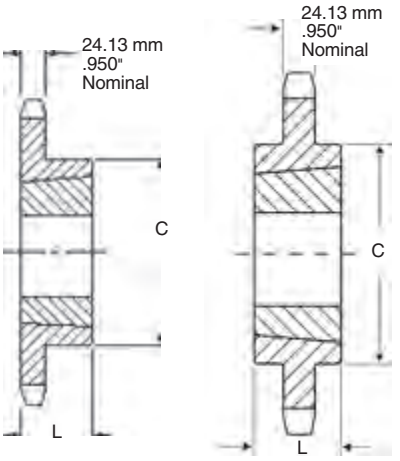
ISO 24B-1
METRIC 120

Metric Sprockets

CHAIN DATA:
BS 228/18
ISO 24B-1
PITCH: 38.10 mm (1.50")
ROLLER DIAMETER: 25.40 mm (1.00")
ROLLER WIDTH: 25.40 mm (1.00")
TENSILE: 9,980 kilos (22,000 lbs.)

1.50 INCH (38.10 mm) PITCH SIMPLEX





TYPE B **TYPE C**

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
11	135.23	24BTB11H	2012	50.80	31.75	90.49	2.28	0.77
12	147.21	24BTB12H	2012	50.80	31.75	90.49	2.49	0.77
13	159.20	24BTB13H	2517	63.50	44.45	107.95	2.77	1.59
14	171.22	24BTB14H	2517	63.50	44.45	107.95	3.54	1.59
15	183.25	24BTB15H	2517	63.50	44.45	107.95	4.31	1.59
16	195.29	24BTB16H	3020	76.20	50.80	133.35	4.77	2.95
17	207.35	24BTB17H	3020	76.20	50.80	133.35	5.45	2.95
18	219.41	24BTB18H	3020	76.20	50.80	133.35	6.13	2.95
19	231.48	24BTB19H	3020	76.20	50.80	133.35	6.81	2.95
20	243.55	24BTB20H	3020	76.20	50.80	133.35	7.49	2.95
21	255.63	24BTB21H	3020	76.20	50.80	133.35	7.94	2.95
22	267.72	24BTB22H	3020	76.20	50.80	133.35	8.75	2.95
23	279.80	24BTB23H	3020	76.20	50.80	133.35	9.53	2.95
24	291.90	24BTB24H	3020	76.20	50.80	133.35	10.67	2.95
25	303.99	24BTB25H	3020	76.20	50.80	133.35	11.80	2.95
26	316.09	24BTB26H	3020	76.20	50.80	133.35	12.93	2.95
27	328.19	24BTB27H	3020	76.20	50.80	133.35	13.50	2.95
28	340.29	24BTB28H	3020	76.20	50.80	133.35	14.70	2.95
29	352.29	24BTB29H	3020	76.20	50.80	133.35	14.75	2.95
30	364.49	24BTB30H	3020	76.20	50.80	133.35	15.20	2.95
32	388.71	24BTB32	3020	76.20	50.80	133.35	15.76	2.95
38	461.37	24CTB38	3030	76.20	76.20	139.70	24.97	4.18
40	485.60	24CTB40	3030	76.20	76.20	139.70	28.46	4.18
42	509.83	24CTB42	3030	76.20	76.20	139.70	31.95	4.18
45	546.19	24CTB45	3030	76.20	76.20	139.70	37.19	4.18
48	582.54	24CTB48	3030	76.20	76.20	139.70	42.43	4.18
50	606.78	24CTB50	3030	76.20	76.20	139.70	45.92	4.18
54	655.26	24CTB54	3535	88.90	88.90	165.10	63.32	6.36
57	691.62	24CTB57	3535	88.90	88.90	165.10	71.46	6.36
60	727.99	24CTB60	3535	88.90	88.90	165.10	79.60	6.36
68	824.97	24CTB68	3535	88.90	88.90	165.10	101.31	6.36
72	873.46	24CTB72	3535	88.90	88.90	165.10	112.17	6.36
76	921.96	24CTB76	3535	88.90	88.90	165.10	123.02	6.36
95	1152.33	24CTB95	4040	101.60	101.60	196.85	196.67	9.98
96	1164.46	24CTB96	4040	101.60	101.60	196.85	201.03	9.98
114	1382.72	24CTB114	4040	101.60	101.60	196.85	279.50	9.98

Sprockets with “H” suffix have hardened teeth.

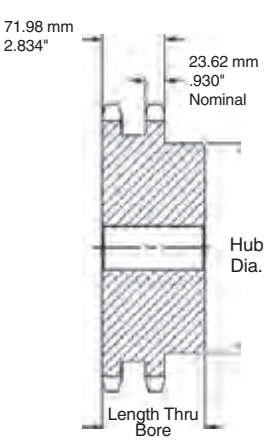
Metric Sprockets

ISO 24B-2
METRIC 120

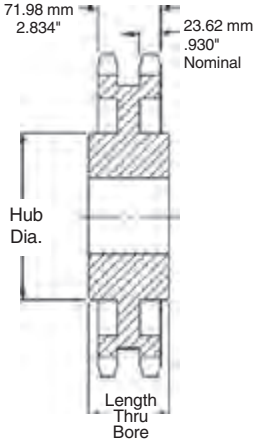
1.50 INCH (38.10 mm) PITCH DUPLEX

CHAIN DATA:
BS 228/18
ISO 24B-2
PITCH: 38.10 mm (1.50")
ROLLER DIAMETER: 25.40 mm (1.00")
ROLLER WIDTH: 25.40 mm (1.00")
TENSILE: 19,960 kilos (44,000 lbs.)





TYPE B



TYPE C

Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	135.23	D24B11	32	60	90	100	6.50
12	147.21	D24B12	32	67	102	100	8.13
13	159.20	D24B13	32	76	114	100	9.92
14	171.22	D24B14	32	84	128	100	11.98
15	183.25	D24B15	32	93	140	100	14.13
16	195.29	D24B16	32	100	150	100	16.35
17	207.35	D24B17	40	100	150	100	17.85
18	219.41	D24B18	40	108	160	100	20.35
19	231.48	D24B19	40	108	160	100	22.56
20	243.55	D24B20	40	108	160	100	24.78
21	255.63	D24B21	40	108	160	100	26.99
22	267.72	D24B22	40	108	160	102	29.74
23	279.80	D24B23	40	108	160	102	32.87
24	291.90	D24B24	40	108	160	102	36.00
25	303.99	D24B25	40	108	160	102	39.13
26	316.09	D24B26	40	108	160	102	42.26
27	328.19	D24B27	40	108	160	102	45.40
28	340.29	D24B28	40	108	160	102	48.53
29	352.39	D24B29	40	108	160	102	51.66
30	364.49	D24B30	40	108	160	102	54.79
32	388.71	D24B32	40	108	160	102	61.05
38	461.37	D24C38	40	137	190	152	72.01
40	485.60	D24C40	40	137	190	152	75.80
42	509.83	D24C42	40	137	190	152	79.59
45	546.19	D24C45	40	137	190	152	85.28
48	582.54	D24C48	40	137	190	152	90.97
50	606.78	D24C50	40	137	190	152	94.76
54	655.26	D24C54	40	161	238	159	127.46
57	691.62	D24C57	40	161	238	159	140.74
60	727.99	D24C60	40	161	238	159	154.02
68	824.97	D24C68	40	161	238	159	189.45
72	873.46	D24C72	40	161	238	159	207.16
76	921.96	D24C76	40	161	238	159	224.87
95	1152.33	D24C95	40	161	238	159	309.00
96	1164.46	D24C96	40	161	238	159	313.43
114	1382.72	D24C114	40	161	238	159	393.13

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 28B-1
METRIC 140

Metric Sprockets

CHAIN DATA:
BS 228/20
ISO 28B-1
PITCH: 44.45 mm (1.75")
ROLLER DIAMETER: 27.94 mm (1.10")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 13,160 kilos (29,000 lbs.)

1.75 INCH (44.45 mm) PITCH SIMPLEX

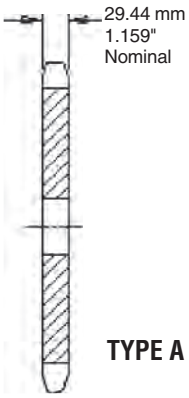


Simplex - Type B/C — Steel

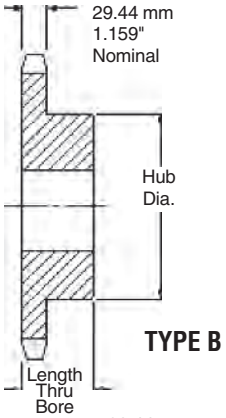
No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	157.77	28B11	40	73	112	70	5.27
12	171.74	28B12	40	84	125	70	6.40
13	185.74	28B13	40	93	140	70	8.22
14	199.76	28B14	40	93	140	60	9.13
15	213.79	28B15	40	108	160	60	11.40
16	227.84	28B16	40	108	160	64	12.76
17	241.91	28B17	40	108	160	64	13.65
18	255.98	28B18	40	108	160	64	13.65
19	270.06	28B19	40	108	160	64	15.01
20	284.14	28B20	40	108	160	64	16.84
21	298.24	28B21	40	108	160	64	18.19
22	312.34	28B22	40	108	160	64	19.11
23	326.44	28B23	40	108	160	64	20.46
24	340.54	28B24	40	108	160	64	21.84
25	354.65	28B25	40	108	160	64	22.73
26	368.77	28B26	40	108	160	64	26.83
27	382.88	28B27	40	108	160	64	27.74
28	397.00	28B28	40	108	160	64	30.29
29	411.12	28B29	40	108	160	64	31.74
30	425.24	28B30	40	108	160	64	32.73
32	453.49	28B32	40	134	180	76	34.84
38	538.27	28C38	40	134	178	102	51.25
40	566.54	28C40	40	134	178	102	52.84
42	594.81	28C42	40	134	178	102	54.43
45	637.22	28C45	40	134	178	102	60.55
48	679.63	28C48	40	134	178	102	62.72
54	764.47	28C54	40	134	178	127	74.60
57	806.89	28C57	40	134	178	127	81.77
60	849.32	28C60	40	134	178	127	88.94
68	962.47	28C68	40	137	191	127	108.05
72	1019.04	28C72	40	137	191	127	117.61
76	1075.62	28C76	40	137	191	127	127.17
95	1344.39	28C95	40	137	191	127	172.57
96	1358.53	28C96	40	137	191	127	174.96
114	1613.18	28C114	40	137	191	127	217.97

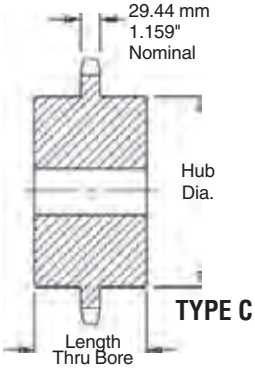
Simplex - Type A — Steel

Catalog Number	Bore Stock MM	Weight Approx. (kg)
28A11	32	3.18
28A12	32	3.95
28A13	32	4.31
28A14	32	4.77
28A15	40	5.45
28A16	40	6.81
28A17	40	7.71
28A18	40	8.63
28A19	40	9.53
28A20	40	10.44
28A21	40	11.79
28A22	40	13.17
28A23	40	14.06
28A24	40	15.44
28A25	40	16.78
28A26	40	18.61
28A27	40	20.43
28A28	40	20.88
28A29	40	23.06
28A30	40	25.17
28A32	40	31.02
28A38	40	48.58
28A40	40	52.80
28A42	40	57.02
28A45	40	63.35
28A48	40	69.68
28A54	40	82.34
28A57	40	88.67
28A60	40	97.97
28A68	40	122.79
28A72	40	135.19
28A76	40	147.60
28A95	40	206.53
28A96	40	209.63
28A114	40	265.46









Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

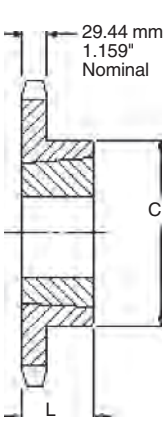
Metric Sprockets

ISO 28B-1
METRIC 140

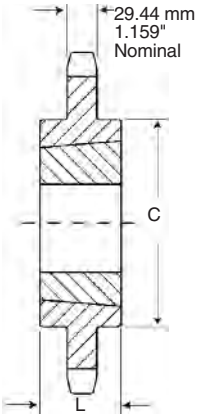
1.75 INCH (44.45 mm) PITCH SIMPLEX

CHAIN DATA:
BS 228/20
ISO 28B-1
PITCH: 44.45 mm (1.75")
ROLLER DIAMETER: 27.94 mm (1.10")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 13,160 kilos (29,000 lbs.)





TYPE B



TYPE C

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
11	157.80	28BTB11H	2517	63.50	44.45	107.95	3.53	1.59
12	170.80	28BTB12H	2517	63.50	44.45	107.95	3.86	1.59
13	185.80	28BTB13H	3020	76.20	50.80	133.35	5.90	2.95
14	199.80	28BTB14H	3020	76.20	50.80	133.35	7.04	2.95
15	213.80	28BTB15H	3020	76.20	50.80	133.35	8.17	2.95
16	227.90	28BTB16H	3020	76.20	50.80	133.35	9.76	2.95
17	241.90	28BTB17H	3020	76.20	50.80	133.35	11.35	2.95
18	256.00	28BTB18H	3020	76.20	50.80	133.35	12.49	2.95
19	270.10	28BTB19H	3020	76.20	50.80	133.35	13.62	2.95
20	284.10	28BTB20H	3020	76.20	50.80	133.35	14.3	2.95
21	298.30	28BTB21H	3020	76.20	50.80	133.35	14.98	2.95
22	312.30	28BTB22H	3020	76.20	50.80	133.35	16.91	2.95
23	326.40	28BTB23H	3020	76.20	50.80	133.35	18.84	2.95
24	340.50	28BTB24H	3020	76.20	50.80	133.35	20.77	2.95
25	354.70	28BTB25H	3020	76.20	50.80	133.35	22.70	2.95
26	368.80	28BTB26H	3020	76.20	50.80	133.35	24.63	2.95
27	382.90	28BTB27	3020	76.20	50.80	133.35	26.56	2.95
28	397.00	28BTB28	3020	76.20	50.80	133.35	28.49	2.95
30	425.20	28BTB30	3020	76.20	50.80	133.35	32.35	2.95
32	453.49	28BTB32	3020	76.20	50.80	133.35	36.21	2.95
38	538.30	28CTB38	3535	88.90	88.90	165.10	45.40	6.36
40	566.55	28CTB40	3535	88.90	88.90	165.10	47.79	6.36
42	594.82	28CTB42	3535	88.90	88.90	165.10	50.18	6.36
45	637.21	28CTB45	4040	101.60	101.60	219.08	57.35	9.99
48	679.63	28CTB48	4040	101.60	101.60	219.08	61.17	9.99
54	764.46	28CTB54	4040	101.60	101.60	219.08	68.82	9.99
57	806.90	28CTB57	4040	101.60	101.60	219.08	72.64	9.99
60	849.33	28CTB60	4040	101.60	101.60	219.08	76.44	9.99
68	962.46	28CTB68	4040	101.60	101.60	219.08	86.63	9.99
72	1019.05	28CTB72	4040	101.60	101.60	219.08	91.73	9.99
76	1075.60	28CTB76	4040	101.60	101.60	219.08	96.83	9.99
95	1344.37	28CTB95	4040	101.60	101.60	219.08	121.03	9.99
96	1358.52	28CTB96	4040	101.60	101.60	219.08	122.31	9.99
114	1613.18	28CTB114	4040	101.60	101.60	219.08	145.24	9.99

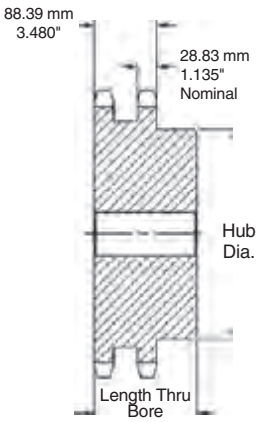
ISO 28B-2
METRIC 140-2

Metric Sprockets

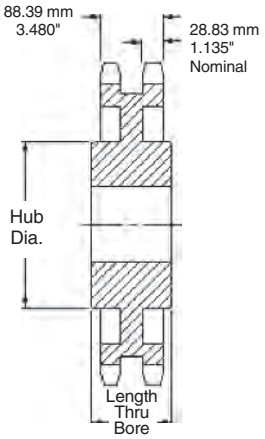
CHAIN DATA:
BS 228/20
ISO 28B-2
PITCH: 44.45 mm (1.75")
ROLLER DIAMETER: 27.94 mm (1.10")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 26,320 kilos (58,000 lbs.)

1.75 INCH (44.45 mm) PITCH DUPLEX





TYPE B



TYPE C

Duplex - Type B/C — Steel

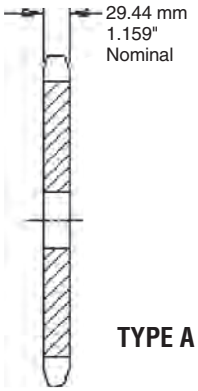
No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)
11	157.77	D28B11	40	73	112	120	10.21
12	171.74	D28B12	40	84	125	120	13.02
13	185.74	D28B13	40	84	130	120	16.00
14	199.76	D28B14	40	87	135	120	19.28
15	213.79	D28B15	40	96	145	120	22.91
16	227.84	D28B16	40	108	160	120	26.92
17	241.91	D28B17	40	114	178	120	30.83
18	255.98	D28B18	40	114	178	120	34.74
19	270.06	D28B19	40	133	178	120	38.93
20	284.14	D28B20	40	133	178	120	44.27
21	298.24	D28B21	40	133	178	120	45.08
22	312.34	D28B22	40	133	178	120	48.15
23	326.44	D28B23	40	133	178	120	51.59
24	340.54	D28B24	40	133	178	120	55.03
25	354.65	D28B25	40	133	178	120	58.47
26	368.77	D28B26	40	133	178	120	64.06
28	397.00	D28B28	40	133	178	120	76.05
30	425.24	D28B30	40	133	178	120	89.16
32	453.49	D28B32	40	133	178	120	103.38
38	537.27	D28C38	40	133	191	159	97.53
40	566.54	D28C40	40	137	191	159	109.47
45	637.22	D28C45	40	137	191	159	137.32
48	679.63	D28C48	40	137	191	159	153.61
54	764.47	D28C54	40	162	241	181	204.44
57	806.89	D28C57	40	162	241	181	210.02
60	849.32	D28C60	40	162	241	181	230.82
68	962.47	D28C68	40	162	241	181	273.98
72	1019.04	D28C72	40	162	241	181	305.70
76	1075.62	D28C76	40	162	241	181	323.56

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

2.00 INCH (50.80 mm) PITCH SIMPLEX

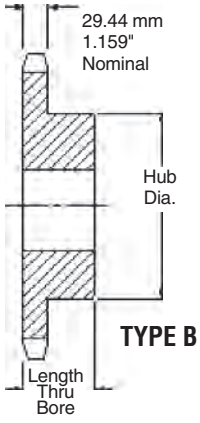
CHAIN DATA:
BS 228/22
ISO 32B-1
PITCH: 50.80 mm(2.00")
ROLLER DIAMETER: 29.21 mm (1.15")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 17,240 kilos (38,000 lbs.)



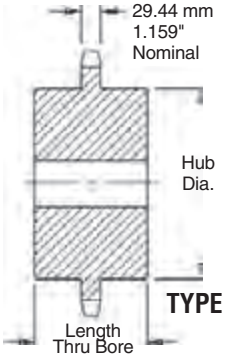


TYPE A





TYPE B



TYPE C

Simplex - Type B/C — Steel

Simplex - Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore Stock MM	Bore Max. MM	Hub Dia. MM	Hub Thru MM	Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
11	180.31	32B11	40	83	120	80	9.04	32A11	32	5.00
12	196.28	32B12	40	89	133	80	11.11	32A12	32	6.02
13	212.27	32B13	40	102	152	70	12.61	32A13	32	7.12
14	228.29	32B14	40	102	152	70	14.97	32A14	32	8.32
15	244.33	32B15	40	102	178	70	17.32	32A15	40	9.50
16	260.39	32B16	40	103	178	70	18.78	32A16	40	11.64
17	276.46	32B17	40	103	178	70	20.23	32A17	40	12.35
18	292.55	32B18	40	103	178	70	21.88	32A18	40	13.96
19	308.64	32B19	40	103	178	70	23.53	32A19	40	15.57
20	324.74	32B20	40	133	178	70	25.37	32A20	40	17.36
21	340.84	32B21	40	133	178	70	27.20	32A21	40	19.15
22	356.96	32B22	40	133	178	70	29.23	32A22	40	21.13
23	373.07	32B23	40	133	178	70	31.25	32A23	40	23.10
24	389.19	32B24	40	133	178	76	35.33	32A24	40	25.26
25	405.32	32B25	40	133	178	76	36.80	32A25	40	27.41
26	421.45	32B26	40	133	181	76	39.41	32A26	40	30.25
27	437.58	32B27	40	133	181	76	42.02	32A27	40	33.10
28	453.72	32B28	40	133	181	76	44.62	32A28	40	35.94
29	469.85	32B29	40	133	181	76	47.23	32A29	40	38.78
30	485.99	32B30	40	133	181	76	49.84	32A30	40	41.63
32	518.28	32B32	40	139	203	76	58.02	32A32	40	47.31
38	615.17	32C38	40	139	203	114	86.78	32A38	40	64.37
40	647.47	32C40	40	139	203	114	91.35	32A40	40	72.98
42	679.78	32C42	40	139	203	114	95.91	32A42	40	81.60
45	728.25	32C45	40	139	203	127	116.97	32A45	40	94.52
48	776.72	32C48	40	139	203	127	130.43	32A48	40	107.44
54	873.68	32C54	40	139	203	127	157.34	32A54	40	133.29
57	922.16	32C57	40	139	203	127	170.79	32A57	40	146.21
60	970.65	32C60	40	139	203	127	184.25	32A60	40	164.35
68	1099.96	32C68	40	139	203	127	220.13	32A68	40	212.73
72	1164.62	32C72	40	139	203	152	282.31	32A72	40	236.91
76	1229.28	32C76	40	139	203	152	297.99	32A76	40	261.10

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

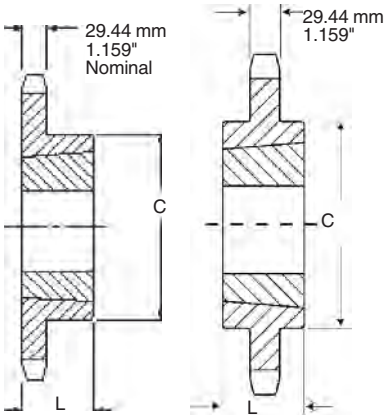
ISO 32B-1
METRIC 160

Metric Sprockets

CHAIN DATA:
BS 228/22
ISO 32B-1
PITCH: 50.80 mm (2.00")
ROLLER DIAMETER: 29.21 mm (1.15")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 17,240 kilos (38,000 lbs.)

2.00 INCH (50.80 mm) PITCH SIMPLEX





TYPE B **TYPE C**

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension L MM	Dimension C MM	Weight Approx. Rim (kg)	Weight Approx. Bushing (kg)
11	180.31	32BTB11H	2517	63.50	44.45	107.95	4.51	1.59
12	196.28	32BTB12H	3020	76.20	50.80	133.35	5.27	2.95
13	212.27	32BTB13H	3020	76.20	50.80	133.35	6.38	2.95
14	228.29	32BTB14H	3020	76.20	50.80	133.35	6.87	2.95
15	244.33	32BTB15H	3535	88.90	88.90	165.10	11.80	6.36
16	260.39	32BTB16H	3535	88.90	88.90	165.10	13.38	6.36
17	276.46	32BTB17H	3535	88.90	88.90	165.10	14.98	6.36
18	292.55	32BTB18H	3535	88.90	88.90	165.10	16.12	6.36
19	308.64	32BTB19H	3535	88.90	88.90	165.10	17.25	6.36
20	324.74	32BTB20H	3535	88.90	88.90	165.10	21.10	6.36
21	340.84	32BTB21H	3535	88.90	88.90	165.10	24.94	6.36
22	356.96	32BTB22H	3535	88.90	88.90	165.10	27.79	6.36
23	373.07	32BTB23H	3535	88.90	88.90	165.10	30.64	6.36
24	389.19	32BTB24H	3535	88.90	88.90	165.10	33.48	6.36
25	405.32	32BTB25H	3535	88.90	88.90	165.10	36.32	6.36
26	421.45	32BTB26H	3535	88.90	88.90	165.10	39.16	6.36
27	437.58	32BTB27	3535	88.90	88.90	165.10	42.00	6.36
28	453.72	32BTB28	3535	88.90	88.90	165.10	44.84	6.36
30	486.99	32BTB30	3535	88.90	88.90	165.10	50.52	6.36
32	518.28	32BTB32	3535	88.90	88.90	165.10	56.20	6.36
38	615.17	32CTB38	4040	101.60	101.60	219.08	68.10	10.00
40	647.47	32CTB40	4040	101.60	101.60	219.08	77.08	10.00
45	728.25	32CTB45	4040	101.60	101.60	219.08	99.53	10.00
48	776.72	32CTB48	4040	101.60	101.60	219.08	113.01	10.00
54	873.68	32CTB54	4040	101.60	114.30	219.08	139.95	10.00
57	922.16	32CTB57	4545	114.30	114.30	247.65	136.20	13.62
60	970.65	32CTB60	4545	114.30	114.30	247.65	158.84	13.62
64	1035.30	32CTB64	4545	114.30	114.30	247.65	189.03	13.62
70	1132.29	32CTB70	4545	114.30	114.30	247.65	234.32	13.62

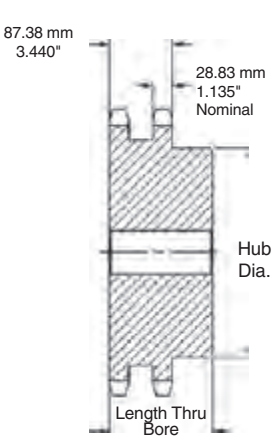
Metric Sprockets

ISO 32B-2
METRIC 160-2

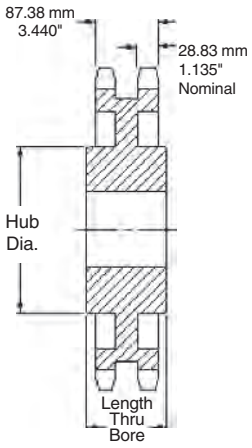
2.00 INCH (50.80 mm) PITCH DUPLEX

CHAIN DATA:
BS 228/22
ISO 32B-2
PITCH: 50.80 mm (2.00")
ROLLER DIAMETER: 29.21 mm (1.15")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 34,480 kilos (76,000 lbs.)





TYPE B



TYPE C

Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	180.31	D32B11	40	80	125	120	10.42
12	196.28	D32B12	40	89	133	120	16.32
13	212.27	D32B13	40	96	145	120	21.77
14	228.29	D32B14	40	103	155	120	26.31
15	244.33	D32B15	40	106	160	120	30.84
16	260.39	D32B16	40	120	178	120	34.02
17	276.46	D32B17	40	120	178	120	41.28
18	292.55	D32B18	40	120	178	120	43.55
19	308.64	D32B19	40	120	178	120	48.53
20	324.74	D32B20	40	130	191	120	53.98
21	340.84	D32B21	40	130	191	120	58.97
22	356.96	D32B22	40	130	191	120	63.96
23	373.07	D32B23	40	130	191	120	71.21
24	389.19	D32B24	40	130	191	120	77.57
25	405.32	D32B25	40	130	191	120	84.82
26	421.45	D32B26	40	130	191	120	91.17
27	437.58	D32B27	40	130	191	120	97.52
28	453.72	D32B28	40	130	191	120	101.13
30	485.99	D32B30	40	130	191	120	116.57
38	615.17	D32B38	40	178	254	181	170.25
40	647.47	D32C40	40	178	254	181	177.46
45	728.25	D32C45	40	178	254	181	195.50
48	776.72	D32C48	40	178	254	181	204.51
54	873.68	D32C54	40	178	254	181	222.53
57	922.16	D32C57	40	178	254	181	231.54
60	970.65	D32C60	40	178	254	181	255.83
76	1229.28	D32C76	40	178	254	181	292.83

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

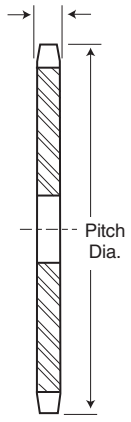
SPROCKET ENGINEERING DATA

ROLLER CHAIN DIMENSIONS
SPROCKET TOOTH DIMENSIONS
MAXIMUM HUB RECOMMENDATIONS
APPLICATION AND SELECTION
HARDENING
CHAIN LENGTH CALCULATION
SPEED RATIOS
SPROCKET DIAMETERS
HORSEPOWER RATINGS

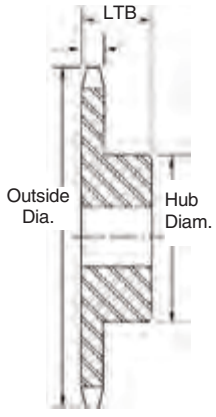
SPROCKETS

American sprocket manufacturers have adopted 4 specific types of sprocket construction styles as American Standards. In addition to the standard sprockets, special sprockets may be available in the same styles.

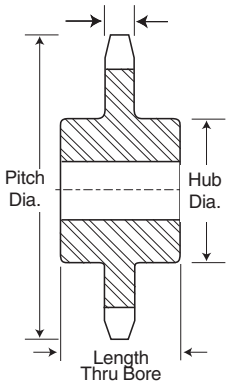
Style A - Flat sprocket with no hub extension either side.
Style B - Sprocket with hub extension one side.
Style C - Sprocket with hub extension both sides.
Style D - Sprocket with a detachable bolt on hub attached to a plate.



Single
Type A Hub



Single
Type B Hub



Single
Type C Hub



Single
Type D Hub

Sprocket Nomenclature

Multiple Strand Sprockets -
Listed using a letter prefix starting with the letter “D” for Double Strand, “E” for Triple Strand, and “F” for Quadruple, etc. They also have the same hub configuration letter designation listed on previous page. In addition to the four specific types, sprockets may also be made in various other styles.

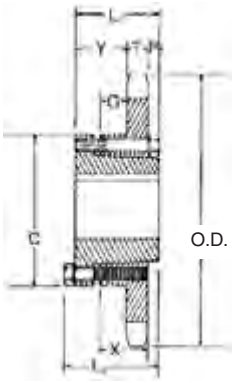


Double



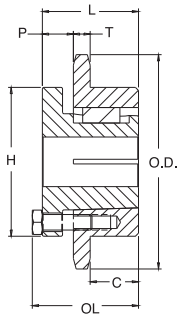
Triple

Five common styles are:





QD

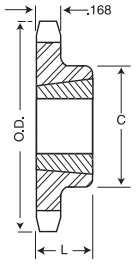




MST®

The **QD** (quick detachable) sprocket; here a tapered bushing is bolted into the bore machined in the sprocket. This bushing, when inserted into the sprocket, compresses onto the shaft providing a tight grip.

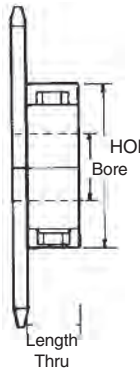
The **MST®** (Martin Split Taper®) is another style of bushed sprocket. The bushing is similar to the QD style except it has an external key that fits into the driven product.





TB

The **TB** (taper bushed) sprocket is another style of an interchangeable bushed sprocket, which provides a positive grip on a driven shaft.





Split

A **Split** type sprocket is used in place of solid type to allow quick installation without disruption of shaft and alignment.



Shear Pin Sprocket

Sprocket Nomenclature

Sprocket nomenclatures provide the chain pitch written to the left of the hub style code letter followed by the number of teeth in the sprocket. If the sprocket is to be multiple strand, the prefix code letter is added to the beginning of the part number.

A suffix of H is added if the teeth are to be heat treated. If the sprocket is to be bored for QD, Taper Bushed or MST, the center hub letter is changed. For QD and MST styles the letter designation of the bushing is used in lieu of the hub style code. If a taper bushing is to be used, the two letters TB are added behind the hub code letter.

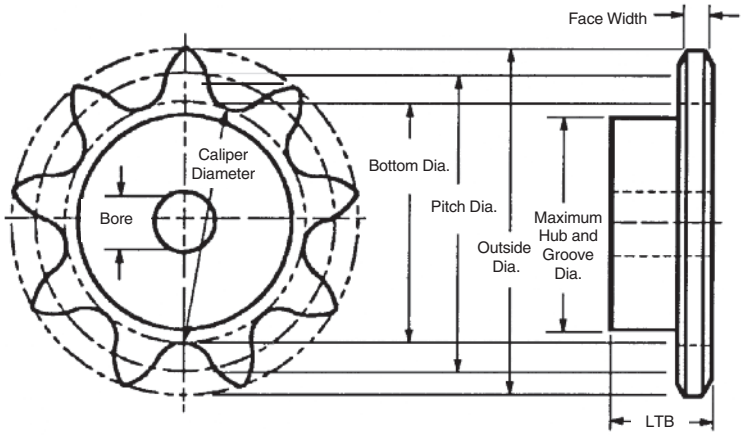
In some instances, the material a sprocket is to be manufactured from will be added into the part number as a suffix.

For example:

SS - Stainless Steel Material
NM - Non-Metallic
BR - Brass or Bronze Material
CD - Cadmium Plated
Zi - Zinc Plated
Ni - Nickel Plated
CH - Chrome Plated

If the part is to be used with a shear pin device, the center hub style letter is substituted with an SP.

Most manufacturers of sprockets conform to the ANSI (American Standards Institute) and Martin conforms to the Type II tooth form as given in the standard B29.1 - 1975. It is not necessary to show detailed tooth information on sprocket drawings, just specify ANSI standard tooth form.



Sprocket Dimensional Specifications

Bottom Diameter (B.D.) - The diameter of a circle tangent to the bottoms of the tooth spaces.

Caliper Diameter - Since the bottom diameter of a sprocket with odd number of teeth cannot be measured directly, caliper diameters are the measurement across the tooth spaces nearly opposite.

Pitch Diameter (P.D.) - The diameter across to the pitch circle which is the circle followed by the centers of the chain pins as the sprocket revolves in mesh with the chain.

$$PD = \frac{PITCH}{SIN\ (180/Nt)}$$

Outside Diameter (O.D.) - The measurement from the tip of the sprocket tooth across to the corresponding point directly across the sprocket. It is comparatively unimportant as the tooth length is not vital to proper meshing with the chain. The outside diameter may vary depending on type of cutter used.

$$OD = (Pitch)\ (.6 + COT\ [180 / Nt])$$

Hub Diameter (HOD) - That distance across the hub from one side to another. This diameter must not exceed the calculated diameter of the inside of the chain side bars.

Maximum Sprocket Bore - Maximum Sprocket Bore is determined by the required hub wall thickness for proper strength. Allowance must be made for keyway and setscrews.

Face Width - Face width is limited in its maximum dimension to allow proper clearance to provide for chain engagement and disengagement. The minimum width is limited to provide the proper strength to carry the imposed loads.

Length Thru Bore (LTB) - Length Thru Bore (or L.T.B.) must be sufficient to allow a long enough key to withstand the torque transmitted by the shaft. This also assures stability of the sprocket on the shaft.

Roller Chain Dimensions

ANSI Number	Roller Width	Roller Diam.	Inside Link Plate Height	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
STANDARD SERIES CHAIN						
25	1/8	.130	.237	.37	.34	875
25-2	1/8	.130	.237	.63	.59	1750
25-3	1/8	.130	.237	.88	.84	2626
35	3/16	.200	.356	.56	.50	2100
35-2	3/16	.200	.356	.96	.90	4200
35-3	3/16	.200	.356	1.36	1.31	6300
35-4	3/16	.200	.356	1.76	1.70	8400
35-5	3/16	.200	.356	2.16	2.11	10500
35-6	3/16	.200	.356	2.57	2.51	12600
40	5/16	.312	.475	.72	.67	3700
40-2	5/16	.312	.475	1.29	1.24	7400
40-3	5/16	.312	.475	1.85	1.80	11100
40-4	5/16	.312	.475	2.42	2.37	14800
40-6	5/16	.312	.475	3.56	3.51	22200
41	1/4	.306	.383	.65	.57	2000
50	3/8	.400	.594	.89	.83	6600
50-2	3/8	.400	.594	1.60	1.55	13200
50-3	3/8	.400	.594	2.31	2.26	19800
50-4	3/8	.400	.594	3.03	2.97	26400
50-5	3/8	.400	.594	3.75	3.69	33000
50-6	3/8	.400	.594	4.46	4.40	39600
60	1/2	.469	.712	1.11	1.04	8500
60-2	1/2	.469	.712	2.01	1.94	17000
60-3	1/2	.469	.712	2.91	2.84	25500
60-4	1/2	.469	.712	3.81	3.74	34000
60-5	1/2	.469	.712	4.71	4.64	42500
60-6	1/2	.469	.712	5.60	5.53	51000
80	5/8	.625	.950	1.44	1.32	14500
80-2	5/8	.625	.950	2.59	2.47	29000
80-3	5/8	.625	.950	3.74	3.62	43500
80-4	5/8	.625	.950	4.90	4.79	58000
80-5	5/8	.625	.950	6.06	5.94	72500
80-6	5/8	.625	.950	7.22	7.10	87000

*Dimensions are across pins.

ANSI Number	Roller Width	Roller Diam.	Inside Link Plate Height	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
STANDARD SERIES CHAIN						
100	3/4	.750	1.187	1.73	1.61	24000
100-2	3/4	.750	1.187	3.14	3.02	48000
100-3	3/4	.750	1.187	4.56	4.43	72000
100-4	3/4	.750	1.187	5.97	5.84	96000
100-5	3/4	.750	1.187	7.38	7.25	120000
100-6	3/4	.750	1.187	8.78	8.66	144000
120	1	.875	1.425	2.14	2.00	34000
120-2	1	.875	1.425	3.93	3.79	68000
120-3	1	.875	1.425	5.72	5.58	102000
120-4	1	.875	1.425	7.52	7.38	136000
120-5	1	.875	1.425	9.31	9.17	170000
120-6	1	.875	1.425	11.10	10.96	204000
140	1	1.000	1.662	2.31	2.14	46000
140-2	1	1.000	1.662	4.24	4.07	92000
140-3	1	1.000	1.662	6.16	6.00	138000
140-4	1	1.000	1.662	8.09	7.93	184000
140-6	1	1.000	1.662	11.94	11.78	276000
160	1 1/4	1.125	1.900	2.73	2.54	58000
160-2	1 1/4	1.125	1.900	5.04	4.85	116000
160-3	1 1/4	1.125	1.900	7.35	7.16	174000
160-4	1 1/4	1.125	1.900	9.66	9.47	232000
160-6	1 1/4	1.125	1.900	14.27	14.09	348000
180	1 13/32	1.406	2.137	3.15	2.88	76000
180-2	1 13/32	1.406	2.137	5.75	5.48	152000
180-3	1 13/32	1.406	2.137	8.34	8.07	228000
200	1 1/2	1.562	2.375	3.44	3.12	95000
200-2	1 1/2	1.562	2.375	6.26	5.94	190000
200-3	1 1/2	1.562	2.375	9.08	8.76	285000
200-4	1 1/2	1.562	2.375	11.90	11.58	380000
200-6	1 1/2	1.562	2.375	17.52	17.21	570000
240	1 7/8	1.875	2.812	4.06	3.72	130000
240-2	1 7/8	1.875	2.812	7.52	7.18	260000

*Dimensions are across pins.

STANDARD KEYWAYS AND SETSCREWS

Diameter of Shaft	Keyway Width × Depth	Setscrew	Diameter of Shaft	Keyway Width × Depth	Setscrew
1/2 - 9/16	1/8 × 1/16	10-24	2 5/16 — 2 3/4	5/8 × 5/16	5/8*
5/8 - 7/8	3/16 × 3/32	1/4	2 13/16 — 3 1/4	3/4 × 3/8	5/8*
15/16 - 1 1/4	1/4 × 1/8	5/16	3 5/16 — 3 3/4	7/8 × 7/16	3/4
1 5/16 - 1 3/8	5/16 × 5/32	5/16	3 13/16 — 4 1/2	1 × 1/2	3/4
1 7/16 - 1 3/4	3/8 × 3/16	3/8	4 5/16 — 5 1/2	1 1/4 × 5/8	3/4
1 13/16 - 2 1/4	1/2 × 1/4	1/2*	5 5/16 — 6 1/2	1 1/2 × 3/4	3/4

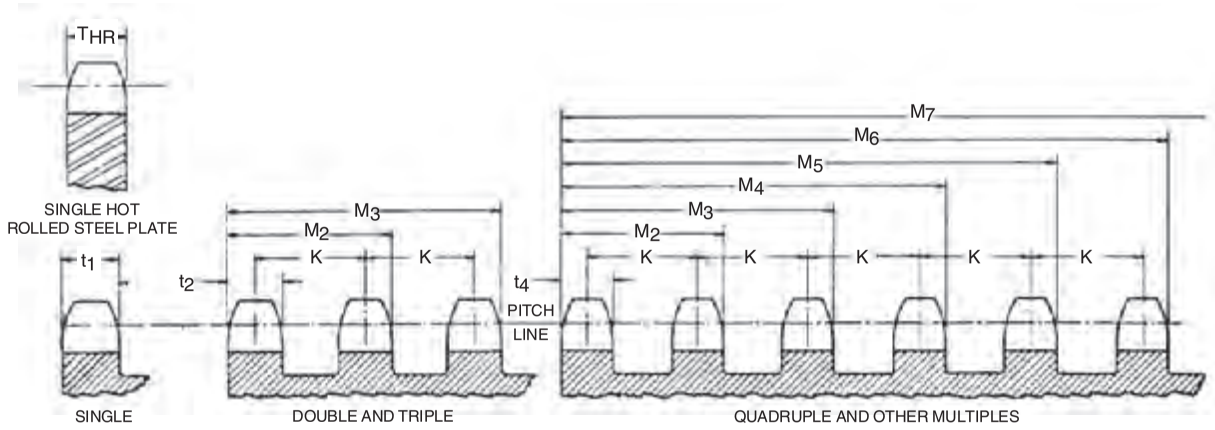
*Hub size may require smaller setscrews in some instances.

STANDARD BORE TOLERANCES

1" and Less	+ .001 -.000
1 1/16" to 2"	+ .002 -.000
2 1/16" to 3"	+ .003 -.000
3 1/16" & up	+ .004 -.000

Bores with closer tolerances will be supplied at a slight increase in price.

Sprocket Tooth Dimensions



Dimensions in Inches

Chain Data For All Sprockets				Single Strand t1 and T_{HR}	Double and Triple Strand			For 4 or more Strands						Minus					Tolerance on "t" and "M" Machined	Minus Tolerance on T_{HR}
A.S.A. Chain No.	Pitch P	Roller Width W	Roller Diameter		t_2	M_2	M_3	t_4	M_2	M_3	M_4	M_5	M_6	M_8	M_{10}	M_{12}	M_{16}	K		
STANDARD SERIES ROLLER CHAIN SPROCKETS																				
25	¼	⅛	.130	.110	.107	.359	.611	.096	.348	.600	.852	1.104	1.356	1.860	2.364	2.868	3.876	.252	.007	.021
35	⅜	3/16	.200	.168	.162	.561	.960	.149	.548	.947	1.346	1.745	2.144	2.942	3.740	4.538	6.134	.399	.008	.027
41	½	¼	.306	.227	†	†	†	†	†	†	†	†	†	†	†	†	†	†	.009	.032
40	½	5/16	.312	.284	.275	.841	1.407	.256	.822	1.388	1.954	2.520	3.086	4.218	5.250	6.482	8.746	.566	.009	.035
50	⅝	⅜	.400	.343	.332	1.045	1.758	.311	1.024	1.737	2.450	3.163	3.876	5.302	6.728	8.154	11.006	.713	.010	.036
60	¾	½	.469	.459	.444	1.341	2.238	.418	1.315	2.212	3.108	4.006	4.903	6.697	8.491	10.258	13.873	.897	.011	.036
80	1	⅝	.625	.575	.557	1.700	2.863	.526	1.679	2.832	3.985	5.138	6.291	8.597	10.903	13.209	17.821	1.153	.012	.040
100	1¼	¾	.750	.692	.669	2.077	3.484	.633	2.041	3.449	4.857	6.265	7.673	10.489	13.305	16.121	21.753	1.408	.014	.046
120	1½	1	.875	.924	.894	2.683	4.472	.848	2.637	4.426	6.215	8.004	9.793	13.371	16.949	20.527		1.789	.016	.057
140	1¾	1	1.000	.924	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316	18.164	22.012		1.924	.016	.057
160	2	1¼	1.125	1.156	1.119	3.424	5.729	1.063	3.368	5.673	7.978	10.283	12.588	17.198	21.808			2.305	.019	.062
180	2¼	1 13/32	1.406	1.301	1.259	3.851	6.443	1.197	3.789	6.381	8.973	11.565	14.157	19.341				2.592	-.020	-.068
200	2½	1½	1.562	1.389	1.344	4.161	6.978	1.278	4.095	6.912	9.729	12.546	15.363	20.997				2.817	.021	.072
240	3	1⅞	1.875	1.738	1.682	5.140	8.598	1.601	5.059	8.517	11.975	15.433	18.891					3.458	-.025	-.087
HEAVY SERIES CHAIN SPROCKETS																				
60H	.750	.500	.469	.459	.444	1.472	2.500	.418	1.446	2.474	3.502	4.530	5.558	7.614				1.028	-.011	-.036
80H	1.000	.625	.625	.575	.557	1.840	3.123	.526	1.809	3.092	4.375	5.568	6.941	9.507				1.283	-.012	-.040
100H	1.250	.750	.750	.692	.669	2.208	3.747	.633	2.172	3.711	5.250	6.789	8.328	11.406				1.539	-.014	-.046
120H	1.500	1.000	.875	.924	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316				1.924	-.016	-.057
140H	1.750	1.000	1.000	.924	.894	2.949	5.004	.848	2.903	4.958	7.013	9.068	11.123	15.233				2.055	-.016	-.057
160H	2.000	1.250	1.125	1.156	1.119	3.555	5.991	1.063	3.499	5.935	8.371	10.807	13.243	18.115				2.436	-.019	-.062
180H	2.250	1.406	1.406	1.301	1.259	3.982	6.705	1.197	3.920	6.643	9.366	12.089	14.812	20.258				2.723	-.020	-.068
200H	2.500	1.500	1.562	1.389	1.344	4.427	7.510	1.278	4.361	7.444	10.527	13.610	16.693	22.859				3.083	-.021	-.072

† = Not made in multiple strands.

Maximum Hub Dimensions

Recommended Max. Hub and Bore Sizes

AMERICAN STANDARD NO. 25

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore
6	555	9/64	....	16	6940	31/32	9/16	26	8645	1 49/64	1 1/4
7	1300	15/64	....	17	7290	1 3/64	5/8	27	8655	1 55/64	1 1/4
8	2080	5/16	....	18	7590	1 1/8	3/4	28	8650	1 15/16	1 1/4
9	2860	7/16	1/4	19	7840	1 7/32	13/16	29	8625	2 1/64	1 1/4
10	3610	1/2	1/4	20	8050	1 19/64	7/8	30	8580	2 3/32	1 5/16
11	4310	9/16	5/16	21	8230	1 3/8	7/8	31	8540	2 11/64	1 3/8
12	4960	41/64	3/8	22	8370	1 23/64	15/16	32	8465	2 1/4	1 1/2
13	5540	47/64	7/16	23	8480	1 17/32	1	35	8200	2 31/64	1 11/16
14	6070	13/16	9/16	24	8560	1 39/64	1 1/16	40	7580	2 57/64	1 7/8
15	6530	57/64	9/16	25	8610	1 11/16	1 3/16	45	6820	3 9/32	2 1/4

STD. KEYWAY (Am. Std.) and SETSCREW

Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
3/8	3/32 × 3/64	3/16	7/16	3/8
7/16	3/32 × 3/64	3/16	15/32	3/8
1/2 - 9/16	1/8 × 1/16	3/16	1/2	3/8
5/8 - 7/8	3/16 × 3/32	1/4	11/16	1/2
15/16 - 1 1/4	1/4 × 1/8	1/4	3/4	1/2
1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4

AMERICAN STANDARD NO. 35

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore
6	290	15/64	....	16	3630	1 15/32	15/16	26	4525	2 43/64	1 3/4
7	680	3/8	....	17	3810	1 19/32	1 1/16	27	4530	2 51/64	1 3/4
8	1090	1/2	1/4	18	3970	1 23/32	1 3/16	28	4525	2 59/64	1 7/8
9	1495	5/8	3/8	19	4100	1 27/32	1 1/4	29	4510	3 1/32	2
10	1885	3/4	1/2	20	4210	1 61/64	1 1/4	30	4490	3 5/32	2 1/8
11	2260	55/64	9/16	21	4300	2 3/64	1 5/16	31	4470	3 9/32	2 1/4
12	2590	63/64	9/16	22	4380	2 13/64	1 7/16	32	4430	3 25/64	2 1/4
13	2900	1 7/64	11/16	23	4430	2 5/16	1 9/16	35	4290	3 3/4	2 1/2
14	3170	1 15/64	13/16	24	4480	2 7/16	1 11/16	40	3970	4 23/64	2 13/16
15	3420	1 23/64	7/8	25	4510	2 9/16	1 3/4	45	3570	4 61/64	3 1/4

STD. KEYWAY (Am. Std.) and SETSCREW

Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
7/16	3/32 × 3/64	3/16	15/32	3/8
1/2 - 9/16	1/8 × 1/16	3/16	1/2	3/8
5/8 - 7/8	3/16 × 3/32	1/4	11/16	1/2
15/16 - 1 1/4	1/4 × 1/8	1/4	3/4	1/2
1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1

AMERICAN STANDARD NO. 41

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore
6	130	27/64	1/8	16	1630	2 1/16	1 5/16	26	2040	3 43/64	2 3/8
7	305	19/32	5/16	17	1720	2 15/64	1 7/16	27	2040	3 53/64	2 3/16
8	495	49/64	1/2	18	1790	2 25/64	1 5/8	28	2040	4	2 3/4
9	675	15/16	9/16	19	1850	2 35/64	1 3/4	29	2040	4 5/32	2 3/4
10	850	1 3/32	11/16	20	1890	2 23/32	1 3/4	30	2020	4 5/16	2 13/16
11	1020	1 17/64	7/8	21	1940	2 7/8	1 7/8	31	2020	4 15/32	2 15/16
12	1170	1 27/64	7/8	22	1970	3 1/32	2	32	2000	4 41/64	3 1/16
13	1310	1 37/64	1 1/16	23	2000	3 3/16	2 3/16	35	1930	5 7/64	3 5/16
14	1430	1 3/4	1 1/4	24	2020	3 23/64	2 1/4	40	1780	5 29/32	3 7/8
15	1540	1 29/32	1 1/4	25	2030	3 33/64	2 1/4	45	1600	6 45/64	4 15/16

STD. KEYWAY (Am. Std.) and SETSCREW

Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
5/8 - 7/8	3/16 × 3/32	1/4	11/16	1/2
15/16 - 1 1/4	1/4 × 1/8	1/4	3/4	1/2
1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2

AMERICAN STANDARD NO. 40

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore
6	220	21/64	....	16	2720	1 63/64	1 1/4	26	3400	3 37/64	2 5/16
7	510	1/2	1/4	17	2860	2 3/64	1 5/16	27	3405	3 47/64	2 7/16
8	820	43/64	3/8	18	2980	2 19/64	1 1/2	28	3405	3 29/32	2 5/8
9	1125	27/32	9/16	19	3080	2 29/64	1 11/16	29	3395	4 1/16	2 3/4
10	1420	1	5/8	20	3160	2 5/8	1 3/4	30	3370	4 7/32	2 3/4
11	1690	1 11/64	3/4	21	3230	2 25/32	1 3/4	31	3360	4 3/8	2 7/8
12	1940	1 21/64	7/8	22	3290	2 15/16	1 15/16	32	3330	4 35/64	3
13	2180	1 1/2	1	23	3330	3 3/32	2 1/16	35	3220	5 1/64	3 1/4
14	2380	1 21/32	1 1/8	24	3360	3 7/64	2 1/4	40	2970	5 13/16	3 13/16
15	2560	1 13/16	1 1/4	25	3380	3 27/64	2 1/4	45	2670	6 39/64	4 13/16

STD. KEYWAY (Am. Std.) and SETSCREW

Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
5/8 - 7/8	3/16 × 3/32	1/4	11/16	1/2
15/16 - 1 1/4	1/4 × 1/8	1/4	3/4	1/2
1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2

AMERICAN STANDARD NO. 50

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore
6	155	27/64	1/8	16	1960	2 31/64	1 11/16	26	2445	4 31/64	2 15/16
7	370	41/64	3/8	17	2060	2 11/16	1 3/4	27	2450	4 11/16	3 3/16
8	590	27/32	9/16	18	2150	2 57/64	1 7/8	28	2445	4 57/64	3 1/4
9	810	1 1/16	11/16	19	2220	3 5/64	2 1/16	29	2440	5 5/64	3 5/16
10	1020	1 17/64	7/8	20	2280	3 5/32	2 1/4	30	2430	5 5/32	3 1/2
11	1220	1 15/32	15/16	21	2330	3 31/64	2 1/4	31	2415	5 31/64	3 11/16
12	1400	1 43/64	1 1/8	22	2370	3 11/16	2 7/16	32	2395	5 11/16	3 3/4
13	1570	1 7/8	1 1/4	23	2400	3 57/64	2 5/8	35	2320	6 3/32	4 3/32
14	1720	2 5/64	1 5/16	24	2420	4 1/64	2 3/4	40	2140	7 3/32	5 1/2
15	1850	2 5/32	1 1/2	25	2440	4 5/32	2 3/4	45	1930	8 5/32	6 1/4

STD. KEYWAY (Am. Std.) and SETSCREW

Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
5/8 - 7/8	3/16 × 3/32	1/4	11/16	1/2
15/16 - 1 1/4	1/4 × 1/8	1/4	3/4	1/2
1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2

AMERICAN STANDARD NO. 60

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore
6	120	33/64	1/4	16	1480	2 63/64	1 15/16	26	1840	5 25/64	3 5/8
7	275	49/64	1/2	17	1550	3 7/32	2 3/16	27	1845	5 5/8	3 3/4
8	445	1 1/32	5/8	18	1610	3 15/32	2 1/4	28	1840	5 7/8	3 7/8
9	610	1 9/32	7/8	19	1670	3 45/64	2 7/16	29	1835	6 7/64	4 1/16
10	770	1 33/64	1	20	1720	3 61/64	2 11/16	30	1830	6 11/32	4 5/16
11	920	1 49/64	1 1/4	21	1750	4 3/16	2 3/4	31	1815	6 19/32	4 13/16
12	1050	2 1/64	1 1/4	22	1780	4 7/16	2 15/16	32	1800	6 53/64	5 1/16
13	1180	2 1/4	1 1/2	23	1800	4 45/64	3 1/8	35	1740	7 35/64	5 1/2
14	1290	2 1/2	1 3/4	24	1820	4 29/32	3 1/4	40	1610	8 3/4	6 1/2
15	1390	2 3/4	1 3/4	25	1830	5 5/32	3 3/8	45	1450	9 15/16	7 1/16

STD. KEYWAY (Am. Std.) and SETSCREW

Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
15/16 - 1 1/4	1/4 × 1/8	1/4	3/4	1/2
1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2
3 5/16 - 3 3/4	7/8 × 7/16	3/4	2 3/8	1 3/4

Maximum Hub Dimensions

Recommended Max. Hub and Bore Sizes

AMERICAN STANDARD NO. 80

STD. KEYWAY (Am. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
6	75	45/64	7/16	16	935	3 63/64	2 11/16	26	1165	7 15/64	5 7/16					
7	175	1 3/64	5/8	17	985	4 5/16	2 13/16	27	1170	6 35/64	5 1/2					
8	280	1 3/8	7/8	18	1020	4 41/64	3 1/8	28	1170	7 27/32	5 13/16					
9	385	1 23/32	1 3/16	19	1060	4 61/64	3 1/4	29	1165	8 5/32	6 1/8	15/16 - 1 1/4	1/4 × 1/8	1/4	3/4	1/2
10	485	2 3/64	1 1/4	20	1090	5 9/32	3 1/2	30	1160	8 31/64	6 7/16	1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
11	580	2 3/8	1 5/8	21	1110	5 19/32	3 3/4	31	1155	8 51/64	6 1/2	1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
12	670	2 45/64	1 3/4	22	1130	5 25/64	3 7/8	32	1143	9 7/64	6 9/16	1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
13	750	3 1/64	2	23	1150	6 15/64	4 3/16	35	1110	10 7/64	7 1/2	2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
14	820	3 11/32	2 1/4	24	1160	6 9/16	4 13/16	40	1020	11 43/64	8 5/8	2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2
15	880	3 43/64	2 3/8	25	1160	6 7/8	5 1/8	45	920	13 17/64	9 3/4	3 5/16 - 3 3/4	7/8 × 7/16	3/4	2 3/8	1 3/4

AMERICAN STANDARD NO. 100

STD. KEYWAY (Am. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
6	55	7/8	9/16	16	670	5	3 1/4	26	830	9 1/64	6 1/2					
7	125	1 5/16	7/8	17	700	5 13/32	3 5/8	27	835	9 13/32	6 7/8					
8	200	1 47/64	1 3/16	18	730	5 51/64	3 3/4	28	830	9 13/16	7 5/16					
9	275	2 9/64	1 3/8	19	755	6 13/64	4 3/16	29	830	10 13/64	7 1/2	1 5/16 - 1 3/8	5/16 × 5/32	5/16	15/16	5/8
10	350	2 3/16	1 3/4	20	775	6 39/64	4 3/64	30	825	10 39/64	7 3/16	1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
11	415	2 31/32	1 15/16	21	790	7	5 1/4	31	820	11	8	1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
12	475	3 3/8	2 1/4	22	805	7 13/32	5 1/2	32	815	11 13/32	8 5/8	2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
13	535	3 25/32	2 1/2	23	815	7 13/16	5 13/16	35	790	12 39/64	9 1/16	2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2
14	585	4 3/16	2 3/4	24	825	8 13/64	6 3/16	40	730	14 19/32	....	3 5/16 - 3 3/4	7/8 × 7/16	3/4	2 3/8	1 3/4
15	630	4 19/32	3 1/16	25	830	8 39/64	6 1/2	45	655	16 19/32	....	3 13/16 - 4 1/2	1 × 1/2	3/4	2 1/2	2

AMERICAN STANDARD NO. 120

STD. KEYWAY (Am. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
6	40	1 1/16	1 1/16	16	520	6	4	26	650	10 13/16	7 13/64					
7	100	1 37/64	1 1/16	17	550	6 31/64	4 7/16	27	650	11 1/64	8 1/4					
8	155	2 5/64	1 5/16	18	570	6 31/32	5 3/16	28	650	11 25/32	8 3/8					
9	215	2 37/64	1 3/4	19	590	7 3/64	5 1/2	29	650	12 1/4	8 15/16	1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
10	270	3 5/64	2 1/16	20	605	7 15/16	5 15/16	30	645	12 47/64	9 3/16	1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
11	325	3 37/64	2 5/16	21	620	8 7/64	6 3/8	31	645	13 7/32	9 1/16	2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
12	375	4 1/16	2 3/4	22	630	8 57/64	6 1/2	32	640	13 11/16	10 3/16	2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2
13	415	4 35/64	3	23	640	9 3/8	6 7/8	35	615	15 1/8	....	3 5/16 - 3 3/4	7/8 × 7/16	3/4	2 3/8	1 3/4
14	455	5 1/32	3 1/4	24	645	9 55/64	7 5/16	40	570	17 33/64	....	3 13/16 - 4 1/2	1 × 1/2	3/4	2 1/2	2
15	490	5 33/64	3 3/4	25	650	10 11/32	7 1/2	45	515	19 59/64	....	4 9/16 - 5 1/2	1 1/4 × 5/8	3/4	2 3/8	1 3/4

AMERICAN STANDARD NO. 140

STD. KEYWAY (Am. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
6	30	1 1/4	7/8	16	380	7 1/64	5 1/4	26	475	12 5/8	9 1/8					
7	70	1 27/32	1 1/4	17	400	7 7/64	5 5/16	27	475	13 3/16	9 11/16					
8	115	2 1/16	1 11/16	18	415	8 3/64	6 1/8	28	475	13 3/4	10 1/4					
9	150	3 1/64	2	19	430	8 45/64	6 1/2	29	475	14 19/64	10 3/4	1 7/16 - 1 3/4	3/8 × 3/16	3/8	1 1/8	3/4
10	200	3 19/32	2 5/16	20	440	9 1/64	6 3/4	30	470	14 55/64	....	1 13/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
11	235	4 11/64	2 3/4	21	450	9 53/64	7 5/16	31	470	15 27/64	....	2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
12	270	4 3/4	3 1/4	22	460	10 25/64	7 1/2	32	465	15 63/64	....	2 15/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2
13	305	5 5/16	3 9/16	23	465	10 15/16	7 15/16	35	450	17 21/32	....	3 5/16 - 3 3/4	7/8 × 7/16	3/4	2 3/8	1 3/4
14	335	5 7/8	3 7/8	24	470	11 1/2	8 1/2	40	415	20 29/64	....	3 13/16 - 4 1/2	1 × 1/2	3/4	2 1/2	2
15	360	6 29/64	4 1/16	25	475	12 1/16	8 15/16	45	375	23 15/64	....	4 9/16 - 5 1/2	1 1/4 × 5/8	3/4	2 3/8	1 3/4

AMERICAN STANDARD NO. 160

STD. KEYWAY (Am. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
6	25	1 27/64	7/8	16	325	8 1/64	6	26	405	14 7/16	10 15/16					
7	60	2 7/64	1 3/8	17	340	8 21/32	6 1/2	27	405	15 5/64	....					
8	100	2 51/64	1 3/4	18	355	9 5/16	6 15/16	28	405	15 23/32	....					
9	135	3 29/64	2 1/4	19	365	9 61/64	7 1/16	29	400	16 23/64	....	1 3/16 - 2 1/4	1/2 × 1/4	1/2	1 1/2	1
10	170	4 1/8	2 3/4	20	375	10 19/32	7 9/16	30	400	17	....	2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
11	200	4 25/32	3 1/4	21	385	11 15/64	8 3/16	31	400	17 5/8	....	2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2
12	230	5 27/64	3 5/8	22	390	11 7/8	8 7/8	32	395	18 17/64	....	3 5/16 - 3 3/4	7/8 × 7/16	3/4	2 3/8	1 3/4
13	260	6 3/64	4 1/16	23	395	12 33/64	9	35	380	20 3/16	....	3 13/16 - 4 1/2	1 × 1/2	3/4	2 1/2	2
14	280	6 22/32	4 15/16	24	400	13 3/32	9 3/8	40	355	23 3/8	....	4 9/16 - 5 1/2	1 1/4 × 5/8	3/4	2 3/8	1 3/4
15	305	7 3/8	5 1/2	25	400	13 51/64	10 1/4	45	320	26 3/16	....	5 9/16 - 6 1/2	1 1/2 × 3/4	3/4	3	2

AMERICAN STANDARD NO. 200

STD. KEYWAY (Am. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diameter of Shaft	Keyway Width × Depth	Diam. of Set-screw	Min. added to bore for adequate hub wall Steel Sprockets: Setscrew over Key	Setscrew not over Key
6	20	1 51/64	1 1/4	16	235	10 1/32	7 1/2	26	290	18 3/64	....					
7	45	2 21/32	1 7/8	17	245	10 27/32	7 15/16	27	290	18 55/64	....					
8	70	3 1/2	2 1/4	18	255	11 41/64	8 5/8	28	290	19 21/32	....					
9	95	4 21/64	2 13/16	19	265	12 7/16	8 15/16	29	290	20 29/64	....	2 5/16 - 2 3/4	5/8 × 5/16	5/8	1 7/8	1 1/4
10	120	5 5/32	3 3/8	20	270	13 1/4	9 3/4	30	290	21 1/4	....	2 13/16 - 3 1/4	3/4 × 3/8	3/4	2 1/4	1 1/2
11	145	5 53/64	3 15/16	21	280	14 3/64	10 1/2	31	400	22 3/64	....	3 5/16 - 3 3/4	7/8 × 7/16	3/4	2 3/8	1 3/4
12	165	6 5/64	5	22	280	14 27/32	....	32	285	22 27/32	....	3 13/16 - 4 1/2	1 × 1/2	3/4	2 1/2	2
13	185	7 3/64	5 5/16	23	285	15 21/32	....	35	275	25 15/64	....	4 9/16 - 5 1/2	1 1/4 × 5/8	3/4	2 3/8	1 3/4
14	205	8 7/64	6 3/8	24	290	16 29/64	....	40	255	29 15/64	....	5 9/16 - 6 1/2	1 1/2 × 3/4	3/4	3	2
15	220	9 7/32	6 1/2	25	290	17 1/4	....	45	230	33 7/32	....	6 9/16 - 7 1/2	1 3/4 × 3/4	3/4	3 1/4	2 1/2

Application Data and Selection Procedure

How to Check Horsepower Rating of Installed Drive

1. Determine the types of driving and driven loads and obtain the proper service factor, as explained in Steps 1 and 2 under Selection Procedures.
2. Find the multiple strand factor, for the number of chain strands in the drive, from the Multiple Strand Factor Table, in Horsepower Tables (Page E-186 thru E-192).
3. From the horsepower rating table for the chain pitch, read the figure under the RPM of the small sprocket and to the right of the column giving number of teeth in the small sprocket.
4. The horsepower this drive can properly transmit is as follows:

$$\text{HORSEPOWER DRIVE CAN TRANSMIT} = \frac{\left(\text{Rating Table Horsepower}\right) \times \left(\text{Multiple Strand Factor}\right)}{\text{Service Factor}}$$

Center Distance

The following general principals should be applied in determining shaft center distances. The center distance must always be greater than one-half the sum of the sprocket outside diameters to avoid interference of teeth. When the speed ratio is greater than 3 to 1, the center distance should be not less than the sum of the sprocket diameters. Chain wrap should be at least 120° of the small sprocket — one-third of the teeth meshing.

Longer center distances give greater chain wrap. For average applications a center distance of 30 to 50 pitches of chain is reco mmended for best results. For pulsating loads, a center distance of 20 to 30 pitches may be desirable. For center distances of 80 pitches or greater, idlers or chain guides should be used to support the chain. Slightly adjustable center distances will provide chain tension as the chain elongates with wear.

Alignment

Accurate alignment of shafts and sprocket tooth faces provide uniform distribution of the load across the entire chain width and contributes substantially to optimum drive life. Shafting, bearings, and foundations should be suitable to maintain the initial alignment. Periodic maintenance should include an inspection of alignment to insure optimum chain life.

Design Horsepower

When making drive selections consideration is given to the loads imposed on the chain. Service factors based on the type of equipment to be driven (Table I, Page E162) and the type of input power (Table II, Page E162) are used to compensate for these loads.

Horsepower Rating Tables

The horsepower ratings in this catalog apply to lubricated single pitch, single strand precision roller chains, both standard and double pitch roller chain.

The ratings reflect a service factor of 1, a chain length of approximately 100 pitches, use of reco mmended lubrication methods, and a drive arrangement where two aligned sprockets are mounted on parallel horizontal shafts.

The horsepower ratings relate to the speed of the smaller sprocket and drive selections are made on this basis, whether the drive is speed reducing or speed increasing.

For ratings of multiple strand roller chains refer to Multiple Strand Factor in Horsepower Tables.

Lubrication

It has been shown that a separate wedge of fluid lubricant is formed in operating chain joints much like that formed in journal bearings. Therefore, fluid lubricant must be applied to assure an oil supply to the joints and minimize metal to metal contact. Lubrication, if supplied in sufficient volume, also provides effective cooling and impact damping at the higher speeds. For this reason, it is important that the lubrication reco mmendations be followed. The horsepower rating tables shown throughout this catalog, apply only to drives lubricated in the manner specified in the tables.

Chain drives should be protected against dirt and moisture and the oil supply kept free of contamination. Periodic oil change is desirable. A good grade of non-detergent petroleum base oil is reco mmended. Heavy oils and grease are generally too stiff to enter and fill the chain joints.

Application Data and Selection Procedure

Types of Lubrication

There are four basic types of lubrication for chain drives. The recommended type shown in the horsepower rating tables is influenced by chain speed and the amount of power transmitted. These are minimum lubrication requirements and the use of a better type (for example, Type C instead of Type B) is acceptable and may be beneficial. Chain life can vary appreciably depending upon the way the drive is lubricated. The better the lubrication, the longer the chain and sprocket life. For this reason, it is important that the lubrication recommendations be followed when using the rating tables given in this catalog.

Lubrication

TYPE A — Manual Lubrication. Oil applied periodically with brush or spout can.

TYPE B — Oil Bath or Oil Slinger. Oil level maintained in casing at predetermined height.

TYPE C — Oil Stream. Oil supplied by circulating pump inside chain loop on lower span.

NOTE: Drip Lubrication. Oil applied between link plate edges from a drip lubricator and should be used in clean environments only.

Selection of Roller Chain Drives

The following information is necessary for the proper selection and design of Roller Chain Drives:

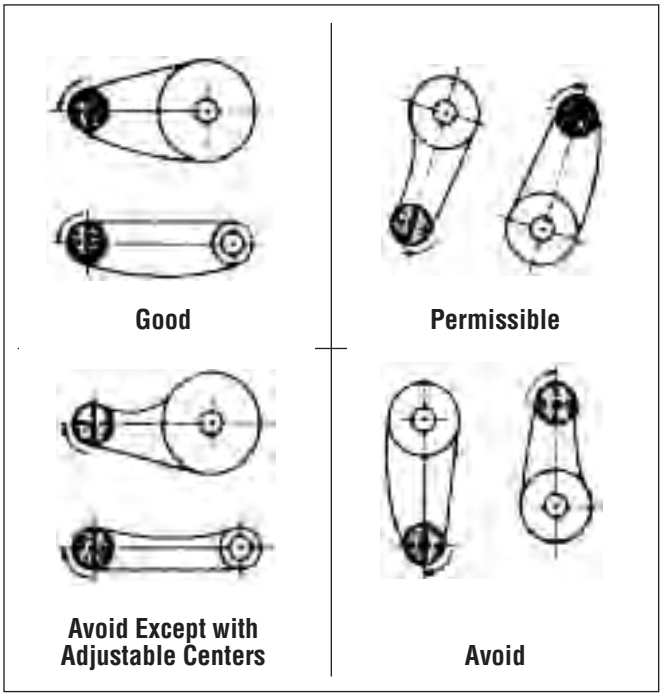
1. Type of input horsepower (electrical motor, internal combustion engine.)
2. Type of equipment to be driven.
3. Horsepower to be transmitted.
4. Full load speed of the fastest running shaft. (R.P.M.)
5. Desired speed of the slow speed shaft. (R.P.M.)
6. Diameters of the driving and driven shafts.
7. Center to center distance of shafts.
8. Position of drive and space limitations.
9. Method of lubrication.
10. Conditions of drive, steady or fluctuating load, hours of operation, lubrication.

Most roller chain drive applications allow considerable latitude in the selection of sprocket sizes and chain pitch, although usually one combination will best fulfill the requirements of power, speed, space limitations and economy.

Chain and Sprocket Selection Procedure Steps:

1. Determine class of driven load.
2. Select service factor.
3. Calculate design horsepower.
4. Select chain pitch.
5. Select number of teeth in small sprocket.
6. Determine number of teeth in larger sprocket.
7. Determine center distance.
8. Calculate chain length.

Drive Positions



Application Data and Selection Procedure

Step I

Service Classification — Table I

Uniform Load

Agitators, Liquid
Blowers, Centrifugal
Conveyors, Even Load
Elevators, Even Load
Fans, Centrifugal
Generators
Line Shafts, Even Load
Machines, Even Load, Non-reversing
Pumps, Centrifugal

Moderate Shock Load

Beaters
Compressors, Centrifugal
Conveyors, Uneven Load
Elevators, Uneven Load
Grinders, Pulp
Kilns and Dryers
Laundry - Washers and Tumblers
Line Shafts, Uneven Load
Machines, Pulsating Load, Non-reversing
Pumps, Reciprocating, Triplex
Screens, Rotary, Even Load
Woodworking Machinery

Heavy Shock Load

Brick Machines
Compressors Reciprocating
Crushers
Machines, Reversing or Impact Loads
Mills, Hammer, Rolling or Drawing
Presses
Pumps, Reciprocating, Simplex or Duplex

Step II

Service Factor — Table II

SERVICE CLASSIFICATION	TYPE OF INPUT POWER		
	Internal Combustion Engine with Hydraulic Drive	Electric Motor or Turbine	Internal Combustion Engine with Mechanical Drive
Uniform Load	1.0	1.0	1.2
Moderate Shock Load	1.2	1.3	1.4
Heavy Shock Load	1.4	1.5	1.7

Unfavorable Operating Conditions which may be present should be compensated for by adding .2 to the Service Factor for each unfavorable condition. Some of these conditions are listed below:

1. Multiple Shafts — add .2 for each additional shaft.
2. Excessive speed ratios — exceeding 7 to 1.
3. Heavy starting loads with frequent starts and stops.
4. Conditions of high temperatures, unusually abrasive conditions, or circumstances decreasing lubrication effectiveness or not allowing the use of recommended lubrication procedures.

Step III

Determination of Design Horsepower

Determine the design horsepower of the required drive using the following procedure.

1. Determine Service Classification — Table I. Unlisted equipment may be classified by its similarity to a listed type.
2. Using Service Classification and Frequency of Service, select the Service Factor — Table II. Increase the Service Factor by adding compensation for unfavorable operating conditions.
3. Multiply the normal operating horsepower of the drive by the Compensated Service Factor to obtain Service Horsepower.

Step IV

Drive Selection

Using Design Horsepower computed above, use Trial Selection Chart (Horsepower Tables) on page E184-E185, or enter tables of Horsepower Ratings shown on pages E186 thru E192. Select the smallest pitch chain which has the required horsepower rating for a pinion sprocket turning at the specified RPM. Check to be certain the selected sprocket has a listed maximum bore large enough to accommodate the specified shaft. The tables on pages E-158 thru E-159 gives maximum bores for the usual range of driving sprockets.

If the Design Horsepower at the required RPM is greater than the horsepower rating of the largest pitch chain which can operate at that speed, a multiple chain drive should be considered for the application.

Selection of drives to operate at speeds somewhat below the maximum rating will increase the life of the drive and quietness of operation.

Step V

Driving Sprocket

In selecting the driving sprocket 17 **teeth are recommended as a minimum** although 15 teeth are quite often used, and as low as 7 teeth can be cut. When the maximum bore of the 17 tooth sprocket will not accomodate the driving shaft, it is necessary to go to a sprocket with a greater number of teeth. Hardened teeth are recommended for sprockets with 25 teeth or less.

Application Data and Selection Procedure

Step VI

Driven Sprocket (Ratio)

The number of teeth selected for the driven sprocket depends upon the driving sprocket chosen and the desired speed of the driven shaft. When space limitations are a factor, the diameter of the driven sprocket sometimes determines the final selection of drive.

The recommended maximum speed ratio is 7 to 1, although higher ratios are occasionally used. It is usually better design, however, for large reductions to use a double reduction drive.

Select the driven sprocket size from the Speed Ratio Table on page E-170 using the required speed ratio and size of driver sprocket.

Step VII

Shaft Centers

May be calculated from the formula on page E-168 where the sprocket diameters and chain length are known.

On many applications the motor base is adjustable, allowing for slight changes in shaft centers. On long centers some form of chain adjuster or take-up is recommended.

Step VIII

Chain Length

On page E-168 is shown a simple method of computing the length of chain necessary for a drive with given sprocket dimensions and center to center distance of shafts. (See chart on page E-169 for length in ft.)

Chain Drive Design Example

To select a roller chain drive from a 10 HP electric motor (1⅝" shaft) 1200 RPM (1150 under load) to a wood working machine shaft at 300 RPM on 30" centers. Drive conditions — moderate pulsating load, good lubrication, 10 hour day operation.

1. Service class — moderate shock load (Table I).
2. Service factor — 1.3 (Table II).
3. Design HP — 1.3 × 10 = 13 DHP.
4. Selection — The Horsepower Ratings on page E-184 show that either of the following combinations may be used.

   No. D40-19 Tooth — Smoothest in operation

   No. 50-18 Tooth — Lower drive cost

For our purpose we select No. 50 chain and checking the bore find that the 1⅝" shaft can be accommodated with a stock bored to size sprocket.

The driven sprocket is found as follows:

No. Teeth
Driven
Sprocket = $18 \times \frac{1150}{300}$ (Ratio) = 68.99 or 69 Teeth

Since 69 teeth is not a stock size we select 70 teeth. The chain length is calculated as shown on page E-169 and is 142 pitches.

Overhung Load

When a Sprocket is mounted on a reducer shaft, a calculation should be made to determine the overhung load in pounds using formula on page *i*-2 in general engineering section.

Engineering Data & Design

Horsepower — equals 33,000 foot pounds per minute, or 550 foot pounds per second. In terms of chain load and speed.

$$HP = \frac{\text{Working Load} \times \text{Ft. Per Min.}}{33{,}000}$$

$$\text{or } HP = \frac{\text{Working Load} \times T \times P \times \text{R.P.M.}}{396{,}000}$$

Where T = number of sprocket teeth
P = chain pitch

Chain Working Load — when the horsepower input is known and the chain working load is desired, this can be calculated as follows:

$$\text{Working Load} = \frac{HP \times 33{,}000}{\text{Ft. Per Min.}}$$

$$\text{or} = \frac{HP \times 396{,}000}{T \times P \times \text{R.P.M.}}$$

Chain Speed — can be determined from the following formula:

$$\text{Chain Speed (Ft. Per Min.)} = \frac{T \times \text{R.P.M.}}{K}$$

where T = number of sprocket teeth

Constant K (Pitches of Chain Per Foot)

PITCH	⅜"	½"	⅝"	¾"	1"	1¼"	1½"	1¾"	2"	2½"	3"
K	32	24	19.2	16	12	9.6	8	6.85	6	4.8	4

Approx. Wt./Ft. of Standard Roller Chain

Number	Single	Double	Triple	Quadruple
25	0.08	0.18	0.27	0.35
35	0.23	0.46	0.69	0.92
41	0.28	—	—	—
40	0.41	0.82	1.23	1.64
50	0.69	1.38	2.07	2.76
60	1.04	2.08	3.12	4.16
80	1.77	3.54	5.31	7.08
100	2.59	5.18	7.77	10.36
120	4.05	8.10	12.15	16.20
140	5.10	10.20	15.30	20.40
160	6.85	13.70	20.55	27.40
180	9.30	18.20	27.20	36.30
200	10.20	21.00	31.50	42.00
240	16.90	33.40	50.00	66.50

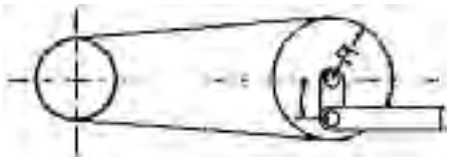
Factor of Safety — is determined as follows:

$$\text{F.S.} = \frac{\text{Chain Ultimate Strength}}{\text{Chain Working Load}}$$

Shaft Torque — Ordinarily is greater for the driven shaft than for the driving shaft due to the difference in sprocket sizes and R.P.M. Torque is usually expressed in inch pounds.

$$\text{Torque (Driving Shaft)} = \frac{HP \times 63{,}000}{\text{R.P.M}}$$

$$\text{Torque (Driven Shaft)} = \text{Working Load} \times R$$



Where a crank arm is used the load transmitted by the arm can be determined as follows:

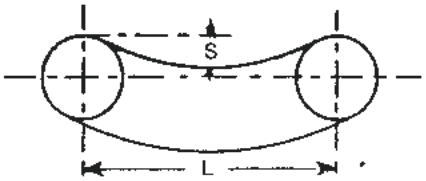
$$\text{Crank arm Load} = \frac{\text{Driven Shaft Torque}}{r}$$

$$\text{or} = \frac{\text{Chain Working Load} \times R}{r}$$

Catenary Tension — imposed by reason of the weight of chain can be approximated as follows:

$$\text{Catenary Tension} = \frac{W \times L_2}{8 \times S} + (W \times S)$$

where W = weight of chain (lbs. per ft.)
S = chain sag (feet) = 2% to 3% of shaft centers approx.
L = Shaft centers in feet.



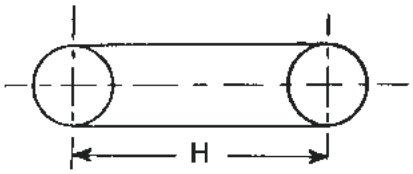
Engineering Data & Design

Conveyor Chains

Chains used in the design of conveyors should be selected on the basis of the **chain pull** imposed by the application and the permissible or **maximum working load** of the chain.

In some instances a larger pitch chain than is necessary may be selected due to the desired attachment spacing, and the effect in this case would be to increase the life of the conveyor.

HORIZONTAL CONVEYORS



Total pull of chains = f H (W + P)

NOTE: When lower strand of conveyor drags on runway above formula becomes f H (W + 2P).

VERTICAL CONVEYORS



Total pull of chains = V (W + P)

H (feet) = Horizontal projection of conveyor length.

V (feet) = Vertical projection of conveyor length.

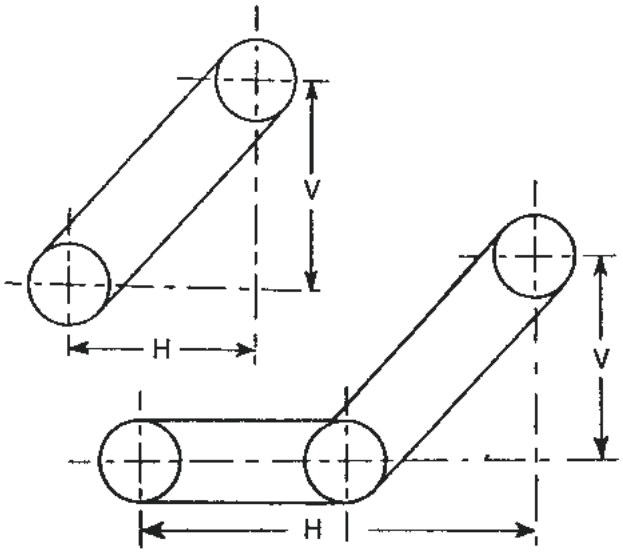
W (pounds) = Weight of material handled per foot of conveyor length.

P (pounds) = Weight per foot of all moving conveyor parts (single or two strand).

f = Coefficient of friction of chain on runway.

Chain Pull

The force or pull required to move a conveyor includes the pull necessary to move the weight of chain and material and the frictional resistance of the chain parts on the runways. The following formulas may be used in calculating the total chain pull. The same formula applies in the case of single or parallel strand chain conveyors, but in the case of parallel strand conveyors, the pull per chain is one-half of the figure calculated from the formula.



INCLINED CONVEYORS

Total pull of chains = f H (W + P) + V (W + P)

NOTE: When lower strand of conveyor drags on runway the factor P (f H – V) should be added to above formula unless V is greater than f H.

Value of Coefficient F

Sliding steel on iron or steel.....25%
Rolling friction.....15%

(If material or other than the usual chain parts are in contact with the runway, the coefficient should be increased to compensate for the added resistance.)

Sprocket Engineering

Chain Drive Selection

Step 1:

Prime Driver: _____ (Type & Description) _____ (Rated - H.P.) _____ (R.P.M.)

Driven Comp: _____ (Type & Description) _____ (R.P.M.) _____ (Hours/Day)

Center Distance: _____" (Maximum) _____" (Minimum) _____" (Nominal)

Step 2: _____
Service Classification (Step I Page E-162)

Step 3: _____ (Include additions to basic factor)
Service Factor (Step II Page E-162)

Step 4: Determine Design H.P. _____ (H.P.) × _____ (Service Factor) = _____ (H.P. Design)

Step 5: Speed Ratio _____ (RPM Faster Shaft) ÷ _____ (RPM Slower Shaft) = _____ (Ratio (E-172))

Step 6: From selector chart, select proper chain pitch & driver sprocket.
(check Martin Catalog page E-184)

A. _____ (Chain Pitch) B. _____ (Driver Sprocket) _____ (Maximum Bore (Pages E-16 thru E-112))

Step 7: From ratio chart, select proper driven sprocket.

C. _____ (Driven Sprocket) _____ (Maximum Bore)

Step 8: Check manufacturer's catalog for maximum bore recommended & final stock selection. (Pages E-16 thru E-112)

Step 9: Review Horsepower table for type of lubrication required.

TYPE: A B C (Pages E-161 and E-186 thru E-192)
OR TYPE: 1 2 3 (Pages E-191 and E-192)

Step 10: _____ (Center Dist. (inches)) ÷ _____ (Chain Pitch) _____ (Center Dist. (pitches))

Step 11: Formula for chain length $= 2C + \frac{N+n}{2} + \frac{A}{C}$

Where:

C	=	Center Dist. in pitches
N	=	Number of teeth in Driven Sprocket
n	=	Number of teeth in Driver Sprocket
A	=	Value from table tabulated for N - n values

Sprocket Hardening

Brinell, Rockwell and Scleroscope Hardness Numbers with Corresponding Tensile Strength

Brinell 10 MM Ball 3,000 Kg.	Rockwell "C" 120 Cone 150 Kg.	Scleroscope Shore Model C	Tensile Strength 1000 Lb. Per Sq. In.
745	68	100	368
712	66	95	352
682	64	91	337
653	62	87	324
627	60	84	311
601	58	81	298
578	57	78	287
555	55	75	276
534	53	72	266
514	52	70	256
495	50	67	247
477	49	65	238
461	47	63	229
444	46	61	220
429	45	59	212
415	44	57	204
401	42	55	196
388	41	54	189
375	40	52	182
362	38	51	176
351	37	49	170
341	36	48	165
331	35	46	160
321	34	45	155
311	33	44	150
302	32	43	146
293	31	42	142
285	30	40	138
277	29	39	134
269	28	38	131
262	26	37	128
255	25	37	125
248	24	36	122
241	23	35	119
235	22	34	116
229	21	33	113
223	20	32	110
	Rockwell "B" 1/16" Ball 100 Kg.		
217	97	31	107
212	96	31	104
207	95	30	101
202	94	30	99
197	93	29	97
192	92	28	95
187	91	28	93
183	90	27	91
179	89	27	89
174	88	26	87

Note: Hardening cannot be accurately checked with a file — stationary or portable hardness testers should be used for conclusive results.

Material

All Martin stock sprockets are made of quality steel poured to our specifications.

Bar size sprockets normally include sizes up to 7" or 7½" in diameter type "B", "BS", "QD", "TB" single, double & triple width. And can easily be electrical induction or flame hardened — to Rockwell "C" 40 to 50.

Plate sprockets normally include sizes 7½" in diameter and larger type "B", "BS", "C", "QD", "TB" single, double, & triple width fabricated and type "A" all diameters. This material would have 35 to 40 points of carbon and can be induction or flame hardened to Rockwell "C" 30 to 45. Degree of hardness obtainable and method depends on size of sprocket.

Special quality steel can be used for large quantities or made-to-order sprockets if specified.

Hardening Recommendations

Hardened teeth substantially increases sprocket life and is recommended under conditions listed below:

1. Pinion or driver where the reduction is 4:1 or greater.
2. Slow speed drives (100 FPM or less).
3. Where safety factor is less than standard.
4. Unusual abrasive conditions.

Degree of hardness — this is governed by conditions prevailing each application — for stock sprockets these general suggestions may be used as guide lines:

1. Rockwell "C" 35 to 50 pinion or driver.
2. Rockwell "C" 25 to 40 larger diameter or driver sprockets.

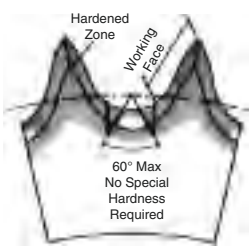
Induction or flame hardening will be used as best suited to the individual application. The diameter and pitch of the sprocket govern the method used.

Caution should be used to avoid "file hardness" (Rockwell C 62 and above) as it is not recommended for sprockets due to brittleness.

Depth of hardening should be limited so as to provide case only on the wear surfaces with a tough resilient core to absorb shock — (see illustration tooth section).



Hardened Tooth Section



Depth of Hardness Required

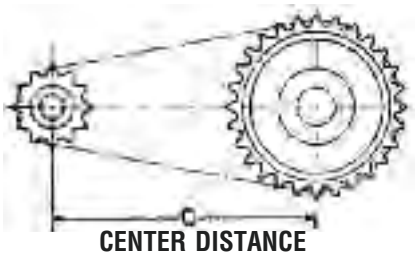
Chain Length Calculation

The following equation may be used to determine the chain length required for any two-sprocket drive.

$$L = 2C + \frac{N+n}{2} + \frac{.1013\,(N-n)^2}{4C}$$ or substituting A for $\frac{.1013\,(N-n)^2}{4}$, $L = 2C + \frac{N+n}{2} + \frac{A}{C}$

where:

- C = Shaft Center Distance in pitches,
- L = Length of chain in pitches,
- N = Number of teeth in larger sprocket,
- n = Number of teeth in smaller sprocket,
- π = 3.1416,
- A = Value from table below tabulated for values of N-n,
- P = Pitch of chain.



CENTER DISTANCE

NOTE: The method described with above table of constants is sufficiently accurate for practically all commercial chain drives. When, however, a high degree of precision is necessary, especially if the drive is vertical, the following formula is useful in determining the exact centers for chain length already determined.

Calculation of shaft centers

The following formula is useful in determining the approximate centers in inches for chain lengths in pitches already determined.

$$C = \frac{P}{8}\left\{2L - N - n + \sqrt{(2L - N - n)^2 - 0.810\,(N-n)^2}\right\}$$

Values of A For Chain Length Calculation

N-n	A	N-n	A	N-n	A	N-n	A	N-n	A	N-n	A
1	0.03	32	25.94	63	100.54	94	223.82	125	395.79	156	616.44
2	0.10	33	27.58	64	103.75	95	228.61	126	402.14	157	624.37
3	0.23	34	29.28	65	107.02	96	233.44	127	408.55	158	632.35
4	0.41	35	31.03	66	110.34	97	238.33	128	415.01	159	640.38
5	0.63	36	32.83	67	113.71	98	243.27	129	421.52	160	648.46
6	0.91	37	34.68	68	117.13	99	248.26	130	428.08	161	656.59
7	1.24	38	36.58	69	120.60	100	253.30	131	434.69	162	664.77
8	1.62	39	38.53	70	124.12	101	258.39	132	441.36	163	673.00
9	2.05	40	40.53	71	127.69	102	263.54	133	448.07	164	681.28
10	2.53	41	42.58	72	131.31	103	268.73	134	454.83	165	689.62
11	3.06	42	44.68	73	134.99	104	273.97	135	461.64	166	698.00
12	3.65	43	46.84	74	138.71	105	279.27	136	468.51	167	706.44
13	4.28	44	49.04	75	142.48	106	284.67	137	475.42	168	714.92
14	4.96	45	51.29	76	146.31	107	290.01	138	482.39	169	723.46
15	5.70	46	53.60	77	150.18	108	295.45	139	489.41	170	732.05
16	6.48	47	55.95	78	154.11	109	300.95	140	496.47	171	740.68
17	7.32	48	58.36	79	158.09	110	306.50	141	503.59	172	749.37
18	8.21	49	60.82	80	162.11	111	312.09	142	510.76	173	758.11
19	9.14	50	63.33	81	166.19	112	317.74	143	517.98	174	766.90
20	10.13	51	65.88	82	170.32	113	323.44	144	525.25	175	775.74
21	11.17	52	68.49	83	174.50	114	329.19	145	532.57	176	784.63
22	12.26	53	71.15	84	178.73	115	334.99	146	539.94	177	793.57
23	13.40	54	73.86	85	183.01	116	340.84	147	547.36	178	802.57
24	14.59	55	76.62	86	187.34	117	346.75	148	554.83	179	811.61
25	15.83	56	79.44	87	191.73	118	352.70	149	562.36	180	820.70
26	17.12	57	82.30	88	196.16	119	358.70	150	569.93	181	829.85
27	18.47	58	85.21	89	200.64	120	364.76	151	577.56	182	839.04
28	19.86	59	88.17	90	205.18	121	370.86	152	585.23	183	848.29
29	21.30	60	91.19	91	209.76	122	377.02	153	592.96	184	857.58
30	22.80	61	94.25	92	214.40	123	383.22	154	600.73	185	866.93
31	24.34	62	97.37	93	219.08	124	389.48	155	608.56		

Roller Chain Lengths

No. Of Pitches	CHAIN PITCH — INCHES										
	⅜	½	⅝	¾	1	1¼	1½	1¾	2	2½	3
	CHAIN LENGTHS — FEET										
1	0.0313	0.0417	0.0521	0.0625	0.0833	0.1042	0.1250	0.1458	0.1667	0.2083	0.2500
2	0.0625	0.0833	0.1042	0.1250	0.1667	0.2083	0.2500	0.2917	0.3333	0.4167	0.5000
3	0.0938	0.1250	0.1563	0.1875	0.2500	0.3125	0.3750	0.4375	0.5000	0.6250	0.7500
4	0.1250	0.1667	0.2083	0.2500	0.3333	0.4167	0.5000	0.5833	0.6667	0.8333	1.0000
5	0.1563	0.2083	0.2604	0.3125	0.4167	0.5208	0.6250	0.7292	0.8333	1.0417	1.2500
6	0.1875	0.2500	0.3125	0.3750	0.5000	0.6250	0.7500	0.8750	1.0000	1.2500	1.5000
7	0.2188	0.2917	0.3646	0.4375	0.5833	0.7292	0.8750	1.0208	1.1667	1.4583	1.7500
8	0.2500	0.3333	0.4167	0.5000	0.6667	0.8333	1.0000	1.1667	1.3333	1.6667	2.0000
9	0.2813	0.3750	0.4688	0.5625	0.7500	0.9375	1.1250	1.3125	1.5000	1.8750	2.2500
10	0.3125	0.4167	0.5208	0.6250	0.8333	1.0417	1.2500	1.4583	1.6667	2.0833	2.5000
11	0.3438	0.4584	0.5729	0.6875	0.9167	1.1459	1.3750	1.6041	1.8333	2.9217	2.7500
12	0.3750	0.5000	0.6250	0.7500	1.0000	1.2500	1.5000	1.7500	2.000	2.5000	3.0000
13	0.4063	0.5417	0.6771	0.8125	1.0833	1.3542	1.6250	1.8958	2.1667	2.7083	3.2500
14	0.4375	0.5833	0.7292	0.8750	1.1667	1.4583	1.7500	2.0417	2.3333	2.9167	3.5000
15	0.4688	0.6250	0.7813	0.9375	1.2500	1.5625	1.8750	2.1875	2.5000	3.1250	3.7500
16	0.5000	0.6667	0.8333	1.0000	1.3333	1.6667	2.0000	2.3333	2.6667	3.3333	4.0000
17	0.5313	0.7084	0.8854	1.0625	1.4167	1.7709	2.1250	2.4791	2.8333	3.5417	4.2500
18	0.5625	0.7500	0.9375	1.1250	1.5000	1.8750	2.2500	2.6250	3.0000	3.7500	4.5000
19	0.5938	0.7917	0.9896	1.1875	1.5833	1.9792	2.3750	2.7708	3.1667	3.9583	4.7500
20	0.6250	0.8333	1.0417	1.2500	1.6667	2.0833	2.5000	2.9167	3.3333	4.1667	5.0000
21	0.6563	0.8750	1.0938	1.3125	1.7500	2.1875	2.6250	3.0625	3.5000	4.3750	5.2500
22	0.6875	0.9167	1.1458	1.3750	1.8333	2.2917	2.7500	3.2083	3.6667	4.5833	5.5000
23	0.7188	0.9584	1.1979	1.4375	1.9166	2.3959	2.8750	3.3541	3.8333	4.7917	5.7500
24	0.7500	1.0000	1.2500	1.5000	2.0000	2.5000	3.0000	3.5000	4.0000	5.0000	6.0000
25	0.7813	1.0417	1.3021	1.5625	2.0833	2.6042	3.1250	3.6458	4.1667	5.2083	6.2500
26	0.8125	1.0833	1.3541	1.6250	2.1667	2.7083	3.2500	3.7917	4.3333	5.3167	6.5000
27	0.8438	1.1250	1.4062	1.6875	2.2500	2.8125	3.3750	3.9375	4.5000	5.6250	6.7500
28	0.8750	1.1667	1.4583	1.7500	2.3333	2.9167	3.5000	4.0833	4.6667	5.8333	7.0000
29	0.9063	1.2084	1.5104	1.8125	2.4167	3.0209	3.6250	4.2291	4.8333	6.0417	7.2500
30	0.9375	1.2500	1.5625	1.8750	2.5000	3.1250	3.7500	4.3750	5.0000	6.2500	7.5000
31	0.9688	1.2917	1.6146	1.9375	2.5833	3.2292	3.8750	4.5208	5.1667	6.4583	7.7500
32	1.0000	1.3333	1.6667	2.0000	2.6667	3.3333	4.0000	4.6667	5.3333	6.6667	8.0000
33	1.0313	1.3750	1.7188	2.0625	2.7500	3.4375	4.1250	4.8125	5.5000	6.8750	8.2500
34	1.0625	1.4167	1.7708	2.1250	2.8333	3.5417	4.2500	4.9583	5.6667	7.0833	8.5000
35	1.0938	1.4584	1.8229	2.1875	2.9167	3.6459	4.3750	5.1041	5.8333	7.2917	8.7500
36	1.1250	1.5000	1.8750	2.2500	3.0000	3.7500	4.5000	5.2500	6.0000	7.5000	9.0000
37	1.1563	1.5417	1.9271	2.3125	3.0833	3.8542	4.6250	5.3958	6.1667	7.7083	9.2500
38	1.1875	1.5833	1.9791	2.3750	3.1667	3.9583	4.7500	5.5417	6.3333	7.9167	9.5000
39	1.2188	1.6250	2.0312	2.4375	3.2500	4.0625	4.8750	5.0875	6.5000	8.1250	9.7500
40	1.2500	1.6667	2.0833	2.5000	3.3333	4.1667	5.0000	5.8333	6.6667	8.3333	10.0000
41	1.2813	1.7084	2.1354	2.5625	3.4167	4.2709	5.1250	5.9791	6.8333	8.5417	10.2500
42	1.3125	1.7500	2.1875	2.6250	3.5000	4.3750	5.2500	6.1250	7.0000	8.7500	10.5000
43	1.3438	1.7917	2.2396	2.6875	3.5833	4.4792	5.3750	6.2708	7.1667	8.9583	10.7500
44	1.3750	1.8333	2.2916	2.7500	3.6667	4.5833	5.5000	6.4167	7.3333	9.1667	11.0000
45	1.4063	1.8750	2.3437	2.8125	3.7500	4.6875	5.6250	6.5625	7.5000	9.3750	11.2500
46	1.4375	1.9167	2.3958	2.8750	3.8333	4.7917	5.7500	6.7083	7.6667	9.5833	11.5000
47	1.4688	1.9584	2.4479	2.9375	3.9167	4.8959	5.8750	6.8541	7.8333	9.7917	11.7500
48	1.5000	2.0000	2.5000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	10.0000	12.0000
49	1.5313	2.0417	2.5521	3.0625	4.0833	5.1042	6.1250	7.1458	8.1667	10.0283	12.2500
50	1.5625	2.0833	2.6042	3.1250	4.1667	5.2083	6.2500	7.2917	8.3333	10.4167	12.5000
51	1.5938	2.1250	2.6563	3.1875	4.2500	5.3125	6.3750	7.4375	8.5000	10.6250	12.7500
52	1.6250	2.1667	2.7083	3.2500	4.3333	5.4167	6.5000	7.5833	8.6667	10.8333	13.0000
53	1.6563	2.2084	2.7604	3.3125	4.4167	5.5209	6.6250	7.7291	8.8333	11.0417	13.2500
54	1.6875	2.2500	2.8125	3.3750	4.5000	5.6250	6.7500	7.8750	9.0000	11.2500	13.5000
55	1.7188	2.2917	2.8647	3.4375	4.5833	5.7292	6.8750	8.0208	9.1667	11.4583	13.7500
56	1.7500	2.3333	2.9167	3.5000	4.6667	5.8333	7.0000	8.1667	9.3333	11.6667	14.0000
57	1.7813	2.3750	2.9688	3.5625	4.7500	5.9375	7.1250	8.3125	9.5000	11.8750	14.2500
58	1.8125	2.4167	3.0208	3.6250	4.8333	6.0417	7.2500	8.4583	9.6667	12.0833	14.5000
59	1.8438	2.4584	3.0729	3.6875	4.1967	6.1459	7.3750	8.6041	9.8333	12.2917	14.7500
60	1.8750	2.5000	3.1250	3.7500	5.0000	6.2500	7.5000	8.7500	10.0000	12.5000	15.0000
61	1.9063	2.5417	3.1771	3.8125	5.0833	6.3542	7.6250	8.8958	10.1667	12.7083	15.2500
62	1.9375	2.5833	3.2292	3.8750	5.1667	6.4583	7.7500	9.0417	10.3333	12.9167	15.5000
63	1.9688	2.6250	3.2813	3.9375	5.2500	6.5625	7.8750	9.1875	10.5000	13.1250	15.7500
64	2.0000	2.6667	3.3333	4.0000	5.3333	6.6667	8.0000	9.3333	10.6667	13.3333	16.0000
65	2.0313	2.7084	3.3854	4.0625	5.4167	6.7709	8.1250	9.4791	10.8333	13.5417	16.2500
66	2.0625	2.7500	3.4375	4.1250	5.5000	6.8750	8.2500	9.6250	11.0000	13.7500	16.5000
67	2.0938	2.7917	3.4897	4.1875	5.5833	6.9792	8.3750	9.7708	11.1667	13.9583	16.7500
68	2.1250	2.8333	3.5417	4.2500	5.6667	7.0883	8.5000	9.9167	11.3333	14.1667	17.0000
69	2.1563	2.8750	3.5938	4.3125	5.7500	7.1875	8.6250	10.0625	11.5000	14.3750	17.2500
70	2.1875	2.9167	3.6458	4.3750	5.8333	7.2917	8.7500	10.2083	11.6667	14.5833	17.5000
71	2.2188	2.9584	3.6979	4.4375	5.9167	7.3959	8.8750	10.3541	11.8333	14.7917	17.7500
72	2.2500	3.0000	3.7500	4.5000	6.0000	7.5000	9.0000	10.5000	12.0000	15.0000	18.0000
73	2.2813	3.0417	3.8021	4.5625	6.0833	7.6042	9.1250	10.6458	12.1667	15.2083	18.2500
74	2.3125	3.0833	3.8541	4.6250	6.1667	7.7083	9.2500	10.7917	12.3333	15.4167	18.5000
75	2.3438	3.1250	3.9062	4.6875	6.2500	7.8125	9.3750	10.9375	12.5000	15.6250	18.7500
80	2.5000	3.3333	4.1667	5.0000	6.6667	8.3333	10.0000	11.6667	13.3333	16.6667	20.0000
85	2.6563	3.5417	4.4271	5.3125	7.0833	8.8542	10.6250	12.3958	14.1667	17.7083	21.2500
90	2.8125	3.7500	4.6875	5.6250	7.5000	9.3750	11.2500	13.1250	15.0000	18.7500	22.5000
95	2.9688	3.9584	4.9479	5.9375	7.9167	9.8959	11.8750	13.8541	15.8333	19.7917	23.7500
100	3.1250	4.1667	5.2083	6.2500	8.3333	10.4167	12.5000	14.5833	16.6667	20.8333	25.0000

Speed Ratios For Sprocket Combinations
Driver Sprocket Teeth

DRIVEN SPROCKET TEETH	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
9	1.00																	
10	1.11	1.00																
11	1.22	1.10	1.00															
12	1.33	1.20	1.09	1.00														
13	1.44	1.30	1.18	1.08	1.00													
14	1.56	1.40	1.27	1.17	1.08	1.00												
15	1.67	1.50	1.36	1.25	1.15	1.07	1.00											
16	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00										
17	1.89	1.70	1.55	1.42	1.31	1.21	1.13	1.06	1.00									
18	2.00	1.80	1.64	1.50	1.38	1.29	1.20	1.13	1.06	1.00								
19	2.11	1.90	1.73	1.58	1.46	1.36	1.27	1.19	1.12	1.06	1.00							
20	2.22	2.00	1.82	1.67	1.54	1.43	1.33	1.25	1.18	1.11	1.05	1.00						
21	2.33	2.10	1.91	1.75	1.61	1.50	1.40	1.31	1.23	1.17	1.10	1.05	1.00					
22	2.44	2.20	2.00	1.83	1.69	1.57	1.47	1.38	1.29	1.22	1.16	1.10	1.05	1.00				
23	2.56	2.30	2.09	1.92	1.77	1.64	1.53	1.44	1.35	1.28	1.21	1.15	1.09	1.04	1.00			
24	2.67	2.40	2.18	2.00	1.85	1.71	1.60	1.50	1.41	1.33	1.26	1.20	1.14	1.09	1.04	1.00		
25	2.78	2.50	2.27	2.08	1.92	1.79	1.67	1.56	1.47	1.39	1.32	1.25	1.19	1.14	1.09	1.04	1.00	
26	2.89	2.60	2.36	2.17	2.00	1.86	1.73	1.63	1.53	1.45	1.37	1.30	1.24	1.18	1.13	1.08	1.04	1.00
27	3.00	2.70	2.45	2.25	2.08	1.93	1.80	1.69	1.59	1.50	1.42	1.35	1.29	1.23	1.17	1.12	1.08	1.04
28	3.11	2.80	2.54	2.33	2.15	2.00	1.87	1.75	1.65	1.56	1.47	1.40	1.33	1.27	1.22	1.17	1.12	1.08
29	3.22	2.90	2.64	2.42	2.23	2.07	1.93	1.81	1.71	1.61	1.53	1.45	1.38	1.32	1.26	1.21	1.16	1.12
30	3.33	3.00	2.73	2.50	2.31	2.14	2.00	1.88	1.76	1.67	1.58	1.50	1.43	1.36	1.31	1.25	1.20	1.15
31	3.44	3.10	2.82	2.58	2.38	2.21	2.07	1.94	1.82	1.72	1.63	1.55	1.48	1.41	1.35	1.29	1.24	1.19
32	3.56	3.20	2.91	2.67	2.46	2.28	2.13	2.00	1.88	1.78	1.68	1.60	1.52	1.45	1.39	1.33	1.28	1.23
33	3.67	3.30	3.00	2.75	2.54	2.36	2.20	2.06	1.94	1.83	1.74	1.65	1.57	1.50	1.43	1.38	1.32	1.27
34	3.78	3.40	3.09	2.83	2.62	2.43	2.27	2.13	2.00	1.89	1.79	1.70	1.62	1.55	1.48	1.42	1.36	1.31
35	3.89	3.50	3.18	2.92	2.69	2.50	2.33	2.19	2.06	1.95	1.84	1.75	1.67	1.59	1.52	1.46	1.40	1.34
36	4.00	3.60	3.27	3.00	2.77	2.57	2.40	2.25	2.12	2.00	1.89	1.80	1.71	1.63	1.57	1.50	1.44	1.38
37	4.11	3.70	3.36	3.08	2.85	2.64	2.47	2.31	2.18	2.06	1.95	1.85	1.76	1.68	1.61	1.54	1.48	1.42
38	4.22	3.80	3.45	3.17	2.92	2.71	2.53	2.38	2.24	2.11	2.00	1.90	1.81	1.73	1.65	1.58	1.52	1.46
39	4.33	3.90	3.55	3.25	3.00	2.79	2.60	2.44	2.29	2.17	2.05	1.95	1.86	1.77	1.70	1.63	1.56	1.50
40	4.44	4.00	3.64	3.33	3.08	2.86	2.67	2.50	2.35	2.22	2.10	2.00	1.90	1.82	1.74	1.67	1.60	1.54
41	4.56	4.10	3.73	3.42	3.15	2.93	2.73	2.56	2.41	2.28	2.16	2.05	1.95	1.86	1.78	1.71	1.64	1.58
42	4.67	4.20	3.82	3.50	3.23	3.00	2.80	2.63	2.47	2.34	2.21	2.10	2.00	1.91	1.83	1.75	1.68	1.61
43	4.78	4.30	3.91	3.58	3.31	3.07	2.87	2.69	2.53	2.39	2.26	2.15	2.05	1.95	1.87	1.79	1.72	1.65
44	4.89	4.40	4.00	3.67	3.39	3.14	2.93	2.75	2.59	2.44	2.32	2.20	2.10	2.00	1.91	1.83	1.76	1.69
45	5.00	4.50	4.09	3.75	3.46	3.21	3.00	2.81	2.65	2.50	2.37	2.25	2.14	2.04	1.96	1.88	1.80	1.73
46	5.11	4.60	4.18	3.83	3.54	3.29	3.07	2.88	2.71	2.56	2.42	2.30	2.19	2.09	2.00	1.92	1.84	1.77
47	5.22	4.70	4.27	3.92	3.62	3.36	3.13	2.94	2.76	2.61	2.47	2.35	2.24	2.14	2.04	1.96	1.88	1.81
48	5.33	4.80	4.36	4.00	3.69	3.43	3.20	3.00	2.82	2.67	2.52	2.40	2.28	2.18	2.09	2.00	1.92	1.84
49	5.44	4.90	4.45	4.08	3.77	3.50	3.27	3.06	2.88	2.72	2.58	2.45	2.33	2.23	2.13	2.04	1.96	1.88
50	5.56	5.00	4.55	4.17	3.85	3.57	3.33	3.13	2.94	2.78	2.63	2.50	2.38	2.27	2.17	2.08	2.00	1.92
51	5.67	5.10	4.64	4.25	3.92	3.64	3.40	3.19	3.00	2.83	2.68	2.55	2.43	2.32	2.22	2.13	2.04	1.96
52	5.78	5.20	4.73	4.33	4.00	3.71	3.47	3.25	3.06	2.89	2.74	2.60	2.48	2.36	2.26	2.17	2.08	2.00
53	5.89	5.30	4.82	4.42	4.08	3.79	3.53	3.31	3.12	2.94	2.79	2.65	2.52	2.41	2.30	2.21	2.12	2.04
54	6.00	5.40	4.91	4.50	4.15	3.86	3.60	3.38	3.18	3.00	2.84	2.70	2.57	2.45	2.35	2.25	2.16	2.07
55	6.11	5.50	5.00	4.58	4.23	3.93	3.67	3.44	3.24	3.06	2.90	2.75	2.62	2.50	2.39	2.29	2.20	2.12
56	6.22	5.60	5.09	4.67	4.31	4.00	3.73	3.50	3.29	3.11	2.95	2.80	2.67	2.55	2.43	2.33	2.24	2.15
57	6.33	5.70	5.18	4.75	4.38	4.07	3.80	3.56	3.35	3.17	3.00	2.85	2.71	2.59	2.48	2.38	2.28	2.19
58	6.44	5.80	5.27	4.83	4.46	4.14	3.87	3.63	3.41	3.22	3.05	2.90	2.76	2.64	2.52	2.42	2.32	2.23
59	6.56	5.90	5.36	4.92	4.54	4.21	3.93	3.69	3.47	3.28	3.11	2.95	2.81	2.68	2.57	2.46	2.36	2.27
60	6.67	6.00	5.45	5.00	4.61	4.28	4.00	3.75	3.53	3.34	3.16	3.00	2.86	2.72	2.61	2.50	2.40	2.30
68	7.55	6.80	6.18	5.66	5.23	4.86	4.54	4.25	4.00	3.78	3.58	3.40	3.24	3.09	2.96	2.84	2.72	2.61
70	7.78	7.00	6.36	5.83	5.38	5.00	4.67	4.38	4.12	3.89	3.68	3.50	3.33	3.18	3.05	2.92	2.80	2.69
72	8.00	7.20	6.54	6.00	5.54	5.14	4.80	4.50	4.24	4.00	3.79	3.60	3.43	3.27	3.13	3.00	2.88	2.77
76			6.91	6.33	5.84	5.43	5.07	4.75	4.47	4.23	4.00	3.80	3.62	3.45	3.31	3.17	3.04	2.92
80			7.27	6.66	6.15	5.71	5.34	5.00	4.70	4.45	4.21	4.00	3.81	3.63	3.48	3.34	3.20	3.07
84				7.00	6.46	6.00	5.60	5.25	4.94	4.67	4.42	4.20	4.00	3.81	3.65	3.50	3.36	3.23
95					7.31	6.78	6.33	5.94	5.59	5.28	5.00	4.75	4.52	4.32	4.13	3.96	3.80	3.65
96					7.38	6.85	6.40	6.00	5.64	5.34	5.05	4.80	4.57	4.36	4.18	4.00	3.84	3.69
102						7.28	6.80	6.38	6.00	5.67	5.37	5.10	4.86	4.63	4.44	4.25	4.08	3.92
112								7.00	6.59	6.23	5.89	5.60	5.33	5.08	4.87	4.67	4.48	4.30

Martin stock sprockets in pitches No. 40 through No. 100 are available with 8 to 60 teeth inclusive and in all common larger sizes for all pitches.

Martin Sprocket Diameters

No. 25 ¼" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
6	0.500	0.583	0.370	71	5.652	5.796	5.521	136	10.823	10.970	10.693
7	0.576	0.669	0.432	72	5.732	5.876	5.602	137	10.903	11.050	10.772
8	0.653	0.754	0.523	73	5.811	5.956	5.680	138	10.983	11.130	10.853
9	0.731	0.837	0.591	74	5.891	6.035	5.761	139	11.062	11.209	10.932
10	0.809	0.919	0.679	75	5.970	6.115	5.839	140	11.142	11.289	11.012
11	0.887	1.002	0.748	76	6.050	6.195	5.920	141	11.221	11.369	11.091
12	0.966	1.083	0.836	77	6.129	6.274	5.998	142	11.301	11.448	11.171
13	1.045	1.167	0.907	78	6.209	6.354	6.079	143	11.380	11.528	11.250
14	1.124	1.246	0.994	79	6.288	6.433	6.157	144	11.460	11.607	11.330
15	1.203	1.326	1.066	80	6.368	6.513	6.238	145	11.540	11.687	11.409
16	1.282	1.407	1.152	81	6.448	6.593	6.317	146	11.619	11.767	11.489
17	1.361	1.487	1.225	82	6.527	6.672	6.397	147	11.699	11.846	11.568
18	1.440	1.568	1.310	83	6.607	6.752	6.476	148	11.779	11.926	11.649
19	1.519	1.648	1.383	84	6.686	6.832	6.556	149	11.858	12.005	11.727
20	1.598	1.729	1.468	85	6.766	6.911	6.635	150	11.938	12.084	11.807
21	1.678	1.809	1.543	86	6.845	6.991	6.715	151	12.017	12.164	11.886
22	1.757	1.889	1.627	87	6.925	7.070	6.794	152	12.097	12.244	11.966
23	1.836	1.969	1.702	88	7.004	7.150	6.874	153	12.176	12.323	12.045
24	1.915	2.049	1.785	89	7.084	7.230	6.953	154	12.256	12.403	12.125
25	1.995	2.129	1.861	90	7.164	7.309	7.034	155	12.335	12.482	12.204
26	2.074	2.209	1.944	91	7.243	7.389	7.112	156	12.415	12.562	12.284
27	2.154	2.289	2.020	92	7.323	7.468	7.193	157	12.494	12.641	12.363
28	2.233	2.369	2.103	93	7.402	7.548	7.271	158	12.574	12.721	12.444
29	2.312	2.449	2.179	94	7.482	7.628	7.352	159	12.654	12.801	12.523
30	2.392	2.529	2.262	95	7.561	7.707	7.430	160	12.733	12.881	12.603
31	2.471	2.609	2.338	96	7.641	7.787	7.511	161	12.813	12.960	12.682
32	2.551	2.688	2.421	97	7.720	7.866	7.589	162	12.893	13.039	12.762
33	2.630	2.768	2.497	98	7.800	7.946	7.670	163	12.972	13.119	12.841
34	2.710	2.848	2.580	99	7.880	8.026	7.749	164	13.051	13.199	12.921
35	2.789	2.928	2.656	100	7.959	8.105	7.829	165	13.131	13.278	13.000
36	2.869	3.008	2.739	101	8.039	8.185	7.908	166	13.211	13.357	13.080
37	2.948	3.087	2.815	102	8.118	8.264	7.988	167	13.290	13.437	13.159
38	3.028	3.167	2.898	103	8.198	8.344	8.067	168	13.370	13.517	13.239
39	3.107	3.247	2.975	104	8.277	8.424	8.147	169	13.450	13.597	13.318
40	3.187	3.327	3.057	105	8.357	8.503	8.226	170	13.529	13.676	13.398
41	3.266	3.406	3.134	106	8.437	8.583	8.307	171	13.608	13.756	13.477
42	3.346	3.486	3.216	107	8.516	8.662	8.385	172	13.688	13.835	13.558
43	3.425	3.566	3.293	108	8.596	8.742	8.466	173	13.768	13.915	13.637
44	3.505	3.646	3.375	109	8.675	8.822	8.544	174	13.847	13.995	13.717
45	3.584	3.725	3.452	110	8.755	8.901	8.625	175	13.927	14.074	13.796
46	3.664	3.805	3.534	111	8.834	8.981	8.703	176	14.006	14.154	13.876
47	3.743	3.885	3.611	112	8.914	9.060	8.784	177	14.086	14.233	13.955
48	3.823	3.964	3.693	113	8.994	9.140	8.863	178	14.166	14.313	14.035
49	3.902	4.044	3.770	114	9.073	9.220	8.943	179	14.245	14.392	14.114
50	3.982	4.124	3.852	115	9.153	9.299	9.022	180	14.325	14.472	14.195
51	4.061	4.203	3.929	116	9.232	9.379	9.102	181	14.404	14.551	14.273
52	4.141	4.283	4.011	117	9.312	9.458	9.181	182	14.484	14.631	14.353
53	4.220	4.363	4.088	118	9.391	9.538	9.261	183	14.564	14.711	14.433
54	4.300	4.442	4.170	119	9.471	9.618	9.340	184	14.643	14.790	14.513
55	4.379	4.522	4.247	120	9.550	9.697	9.420	185	14.722	14.870	14.591
56	4.459	4.602	4.329	121	9.630	9.777	9.499	186	14.803	14.949	14.672
57	4.538	4.681	4.407	122	9.709	9.856	9.579	187	14.882	15.029	14.751
58	4.618	4.761	4.488	123	9.789	9.936	9.658	188	14.961	15.109	14.831
59	4.697	4.841	4.566	124	9.869	10.016	9.739	189	15.041	15.188	14.910
60	4.777	4.920	4.647	125	9.949	10.095	9.818	190	15.120	15.268	14.990
61	4.857	5.000	4.725	126	10.028	10.175	9.898	191	15.200	15.347	15.069
62	4.936	5.080	4.806	127	10.108	10.255	9.977	192	15.279	15.427	15.149
63	5.016	5.159	4.884	128	10.187	10.334	10.057	193	15.359	15.507	15.228
64	5.095	5.239	4.965	129	10.267	10.414	10.136	194	15.439	15.586	15.308
65	5.175	5.319	5.044	130	10.346	10.493	10.216	195	15.518	15.666	15.387
66	5.254	5.398	5.124	131	10.426	10.573	10.295	196	15.598	15.745	15.467
67	5.334	5.478	5.203	132	10.505	10.652	10.375	197	15.678	15.824	15.547
68	5.413	5.558	5.283	133	10.585	10.732	10.454	198	15.757	15.904	15.626
69	5.493	5.637	5.362	134	10.664	10.811	10.534	199	15.837	15.984	15.706
70	5.572	5.717	5.442	135	10.744	10.891	10.613	200	15.916	16.064	15.786

Odd tooth “bottom diameters” equal pitch diameters minus .130".

No. 35
3/8" Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	0.638	0.741	0.407	71	8.478	8.694	8.276	136	16.235	16.456	16.035
6	0.750	0.875	0.550	72	8.597	8.814	8.397	137	16.355	16.575	16.154
7	0.864	1.004	0.643	73	8.717	8.933	8.514	138	16.474	16.695	16.274
8	9.80	1.130	0.780	74	8.836	9.053	8.636	139	16.593	16.814	16.392
9	1.097	1.256	0.880	75	8.955	9.172	8.753	140	16.713	16.934	16.513
10	1.214	1.379	1.014	76	9.074	9.292	8.874	141	16.832	17.053	16.631
11	1.331	1.502	1.117	77	9.194	9.411	8.992	142	16.952	17.172	16.752
12	1.449	1.625	1.249	78	9.313	9.531	9.113	143	17.071	17.292	16.870
13	1.567	1.746	1.356	79	9.432	9.650	9.231	144	17.190	17.411	16.990
14	1.685	1.868	1.485	80	9.552	9.770	9.352	145	17.309	17.531	17.108
15	1.804	1.989	1.594	81	9.671	9.889	9.469	146	17.429	17.650	17.229
16	1.922	2.110	1.722	82	9.791	10.008	9.591	147	17.548	17.769	17.347
17	2.041	2.231	1.832	83	9.910	10.128	9.708	148	17.667	17.889	17.467
18	2.160	2.352	1.960	84	10.029	10.247	9.829	149	17.787	18.008	17.586
19	2.279	2.472	2.071	85	10.148	10.367	9.947	150	17.906	18.128	17.706
20	2.397	2.593	2.197	86	10.268	10.486	10.068	151	18.026	18.247	17.825
21	2.516	2.713	2.309	87	10.387	10.605	10.285	152	18.145	18.366	17.945
22	2.635	2.833	2.435	88	10.506	10.725	10.306	153	18.264	18.486	18.063
23	2.754	2.954	2.548	89	10.626	10.844	10.424	154	18.384	18.605	18.184
24	2.873	3.074	2.673	90	10.745	10.964	10.545	155	18.503	18.724	18.302
25	2.992	3.194	2.786	91	10.865	11.083	10.663	156	18.623	18.844	18.423
26	3.111	3.314	2.911	92	10.934	11.202	10.784	157	18.742	18.963	18.541
27	3.230	3.434	3.025	93	11.103	11.322	10.902	158	18.861	19.082	18.661
28	3.349	3.553	3.149	94	11.223	11.441	11.023	159	18.981	19.202	18.780
29	3.468	3.673	3.263	95	11.342	11.561	11.140	160	19.100	19.321	18.900
30	3.588	3.793	3.388	96	11.461	11.680	11.261	161	19.219	19.440	19.018
31	3.707	3.913	3.502	97	11.581	11.799	11.379	162	19.338	19.560	19.138
32	3.826	4.032	3.626	98	11.700	11.919	11.500	163	19.458	19.679	19.257
33	3.945	4.152	3.741	99	11.819	12.038	11.618	164	19.577	19.799	19.377
34	4.064	4.272	3.864	100	11.939	12.158	11.739	165	19.697	19.918	19.496
35	4.184	4.392	3.979	101	12.058	12.277	11.856	166	19.816	20.037	19.616
36	4.303	4.511	4.103	102	12.177	12.396	11.977	167	19.935	20.090	19.734
37	4.422	4.631	4.218	103	12.297	12.516	12.095	168	20.055	20.276	19.855
38	4.541	4.751	4.341	104	12.416	12.635	12.216	169	20.174	20.396	19.973
39	4.661	4.870	4.457	105	12.536	12.755	12.334	170	20.294	20.515	20.094
40	4.780	4.990	4.580	106	12.655	12.874	12.455	171	20.413	20.634	20.212
41	4.899	5.109	4.695	107	12.774	12.993	12.573	172	20.532	20.754	20.332
42	5.018	5.229	4.818	108	12.893	13.113	12.693	173	20.652	20.873	20.451
43	5.138	5.349	4.934	109	13.013	13.232	12.811	174	20.771	20.993	20.571
44	5.257	5.468	5.057	110	13.132	13.352	12.932	175	20.890	21.112	20.689
45	5.376	5.588	5.173	111	13.251	13.471	13.050	176	21.010	21.231	20.810
46	5.495	5.707	5.295	112	13.371	13.590	13.171	177	21.129	21.351	20.928
47	5.615	5.827	5.411	113	13.490	13.710	13.289	178	21.248	21.470	21.048
48	5.734	5.946	5.534	114	13.610	13.829	13.410	179	21.368	21.589	21.167
49	5.853	6.066	5.650	115	13.729	13.949	13.528	180	21.487	21.709	21.287
50	5.972	6.186	5.772	116	13.848	14.068	13.648	181	21.606	21.828	21.406
51	6.092	6.305	5.889	117	13.968	14.187	13.766	182	21.726	21.948	21.526
52	6.211	6.425	6.011	118	14.087	14.307	13.887	183	21.845	22.067	21.644
53	6.330	6.544	6.127	119	14.206	14.426	14.005	184	21.965	22.186	21.765
54	6.449	6.663	6.249	120	14.326	14.546	14.126	185	22.084	22.306	21.883
55	6.569	6.783	6.366	121	14.445	14.665	14.244	186	22.203	22.425	22.003
56	6.688	6.903	6.488	122	14.564	14.784	14.364	187	22.323	22.544	22.122
57	6.807	7.022	6.605	123	14.684	14.904	14.482	188	22.442	22.664	22.242
58	6.927	7.142	6.727	124	14.803	15.023	14.603	189	22.561	22.783	22.360
59	7.046	7.261	6.843	125	14.922	15.143	14.721	190	22.681	22.902	22.481
60	7.165	7.380	6.965	126	15.042	15.262	14.842	191	22.800	23.022	22.599
61	7.285	7.500	7.082	127	15.161	15.381	14.960	192	22.919	23.141	22.719
62	7.404	7.619	7.204	128	15.281	15.501	15.081	193	23.039	23.261	22.838
63	7.523	7.739	7.321	129	15.400	15.620	15.199	194	23.158	23.380	22.958
64	7.643	7.859	7.443	130	15.519	15.740	15.319	195	23.277	23.499	23.177
65	7.762	7.978	7.560	131	15.639	15.859	15.437	196	23.397	23.619	23.197
66	7.881	8.097	7.681	132	15.758	15.978	15.558	197	23.516	23.738	23.315
67	8.001	8.217	7.798	133	15.877	16.098	15.676	198	23.636	23.858	23.436
68	8.120	8.336	7.920	134	15.996	16.217	15.796	199	23.755	23.977	23.554
69	8.239	8.456	8.037	135	16.116	16.337	15.915	200	23.874	24.096	23.674
70	8.358	8.575	8.158								

Martin Sprocket Diameters

No. 40 ½" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	0.851	0.988	0.497	71	11.304	11.592	10.988	136	21.647	21.941	21.334
6	1.000	1.166	0.688	72	11.463	11.752	11.151	137	21.806	22.100	21.492
7	1.152	1.338	0.812	73	11.622	11.911	11.306	138	21.965	22.259	21.653
8	1.307	1.507	0.995	74	11.781	12.070	11.468	139	22.124	22.419	21.810
9	1.462	1.674	1.127	75	11.940	12.229	11.625	140	22.284	22.578	21.971
10	1.618	1.839	1.305	76	12.099	12.389	11.786	141	22.442	22.737	22.129
11	1.775	2.003	1.444	77	12.258	12.548	11.943	142	22.602	22.896	22.289
12	1.932	2.166	1.614	78	12.417	12.707	12.105	143	22.761	23.055	22.447
13	2.089	2.328	1.761	79	12.576	12.866	12.261	144	22.920	23.214	22.607
14	2.247	2.490	1.934	80	12.736	13.026	12.423	145	23.079	23.374	22.765
15	2.405	2.652	2.079	81	12.895	13.185	12.580	146	23.238	23.533	22.926
16	2.563	2.814	2.250	82	13.054	13.344	12.742	147	23.398	23.692	23.088
17	2.721	2.974	2.397	83	13.213	13.503	12.898	148	23.557	23.851	23.244
18	2.879	3.136	2.567	84	13.372	13.663	13.059	149	23.716	24.010	23.402
19	3.038	3.292	2.715	85	13.531	13.822	13.216	150	23.875	24.170	23.562
20	3.196	3.457	2.883	86	13.690	13.981	13.373	151	24.034	24.329	23.720
21	3.355	3.618	3.033	87	13.849	14.140	13.534	152	24.193	24.488	23.880
22	3.513	3.778	3.201	88	14.009	14.299	13.696	153	24.352	24.647	24.038
23	3.672	3.938	3.351	89	14.168	14.459	13.853	154	24.512	24.806	24.199
24	3.831	4.098	3.518	90	14.327	14.618	14.014	155	24.672	24.965	24.357
25	3.989	4.258	3.669	91	14.486	14.777	14.171	156	24.830	25.124	24.517
26	4.148	4.418	3.835	92	14.645	14.936	14.332	157	24.989	25.284	24.675
27	4.307	4.578	3.987	93	14.804	15.096	14.489	158	24.148	25.443	24.835
28	4.465	4.738	4.153	94	14.963	15.255	14.651	159	25.307	25.602	24.993
29	4.625	4.898	4.305	95	15.122	15.414	14.808	160	25.466	25.761	25.154
30	4.783	5.057	4.471	96	15.282	15.573	14.969	161	25.625	25.920	25.312
31	4.942	5.217	4.623	97	15.441	15.732	15.126	162	25.785	26.080	25.472
32	5.101	5.376	4.788	98	15.600	15.892	15.287	163	25.944	26.239	25.630
33	5.260	5.536	4.941	99	15.759	16.051	15.445	164	26.103	26.398	25.790
34	5.419	5.696	5.107	100	15.918	16.210	15.605	165	26.262	26.557	25.948
35	5.578	5.856	5.260	101	16.077	16.369	15.763	166	26.421	26.716	26.109
36	5.737	6.015	5.425	102	16.236	16.528	15.924	167	26.581	26.876	26.266
37	5.896	6.174	5.578	103	16.395	16.688	16.081	168	25.739	27.035	26.427
38	6.055	6.334	5.742	104	16.555	16.847	16.242	169	26.899	27.194	26.585
39	6.214	6.494	5.896	105	16.714	17.006	16.399	170	27.058	27.353	26.745
40	6.373	6.653	6.061	106	16.873	17.165	16.561	171	27.217	27.512	26.903
41	6.532	6.812	6.214	107	17.032	17.324	16.717	172	27.376	27.671	27.063
42	6.691	6.972	6.379	108	17.191	17.484	16.878	173	27.535	27.831	27.221
43	6.850	7.132	6.532	109	17.351	17.643	17.036	174	27.694	27.990	27.382
44	7.009	7.291	6.696	110	17.509	17.802	17.197	175	27.854	28.149	27.540
45	7.168	7.450	6.851	111	17.668	17.962	17.304	176	28.013	28.308	27.700
46	7.327	7.609	7.014	112	17.827	18.121	17.515	177	28.172	28.467	27.858
47	7.486	7.769	7.169	113	17.987	18.280	17.672	178	28.331	28.626	28.018
48	7.645	7.928	7.332	114	18.146	18.439	17.834	179	28.490	28.786	28.176
49	7.804	8.088	7.487	115	18.305	18.598	17.991	180	28.649	28.945	28.337
50	7.963	8.248	7.650	116	18.464	18.757	18.151	181	28.808	29.104	28.495
51	8.122	8.406	7.805	117	18.623	18.916	18.309	182	28.968	28.263	28.655
52	8.281	8.566	7.968	118	18.782	19.076	18.470	183	29.127	29.422	28.813
53	8.440	8.725	8.124	119	18.941	19.235	18.627	184	29.286	29.581	28.973
54	8.599	8.884	8.286	120	19.101	19.394	18.788	185	29.445	29.741	29.131
55	8.758	9.044	8.442	121	19.260	19.553	18.946	186	29.604	29.900	29.291
56	8.917	9.204	8.605	122	19.419	19.712	19.106	187	29.763	30.059	29.450
57	9.077	9.362	8.760	123	19.578	19.872	19.264	188	29.922	30.218	29.610
58	9.235	9.522	8.924	124	19.737	20.031	19.425	189	30.082	30.387	29.768
59	9.395	9.628	9.078	125	19.896	20.190	19.582	190	30.241	30.536	29.928
60	9.554	9.840	9.241	126	20.056	20.349	19.743	191	30.400	30.696	30.086
61	9.713	10.000	9.397	127	20.215	20.508	19.900	192	30.559	30.855	30.246
62	9.872	10.159	9.559	128	20.374	20.667	20.061	193	30.718	31.014	30.404
63	10.031	10.319	9.715	129	20.533	20.827	20.219	194	30.877	31.173	30.565
64	10.190	10.478	9.872	130	20.692	20.986	20.379	195	31.037	31.332	30.723
65	10.349	10.673	10.033	131	20.851	21.145	20.537	196	31.196	31.491	30.878
66	10.508	10.796	10.195	132	21.010	21.304	20.698	197	31.355	31.651	31.042
67	10.667	10.955	10.352	133	21.169	21.463	20.855	198	31.514	31.810	31.202
68	10.826	11.115	10.514	134	21.329	21.623	21.016	199	31.673	31.969	31.359
69	10.985	11.274	10.670	135	21.488	21.782	21.174	200	31.832	32.128	31.520
70	11.145	11.433	10.832								

No. 50
5/8" Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	1.063	1.235	0.611	71	14.129	14.491	13.726	136	27.059	27.426	26.659
6	1.250	1.458	0.850	72	14.329	14.690	13.929	137	27.258	27.626	26.856
7	1.441	1.673	1.104	73	14.528	14.889	14.124	138	27.457	27.824	27.057
8	1.633	1.884	1.233	74	14.726	15.088	14.326	139	27.656	28.024	27.254
9	1.828	2.093	1.400	75	14.925	15.287	14.522	140	27.854	28.223	27.454
10	2.023	2.299	1.623	76	15.124	15.486	14.724	141	28.053	28.421	27.652
11	2.219	2.504	1.796	77	15.323	15.685	14.920	142	28.253	28.621	27.853
12	2.415	2.708	2.015	78	15.522	15.884	15.122	143	28.451	28.819	28.050
13	2.612	2.911	2.193	79	15.721	16.083	15.318	144	28.650	29.018	28.250
14	2.809	3.113	2.409	80	15.919	16.283	15.519	145	28.849	28.218	28.447
15	3.006	3.315	2.590	81	16.119	16.481	15.715	146	29.048	29.416	28.608
16	3.204	3.517	2.804	82	16.318	16.681	15.918	147	29.247	29.615	28.845
17	3.401	3.718	2.987	83	16.516	16.879	16.113	148	29.446	29.814	29.046
18	3.599	3.919	3.159	84	16.715	17.079	16.315	149	29.645	30.013	29.243
19	3.798	4.121	3.384	85	16.914	17.278	16.511	150	29.844	30.213	29.444
20	3.995	4.321	3.595	86	17.113	17.476	16.713	151	30.043	30.411	29.641
21	4.194	4.522	3.782	87	17.312	17.676	16.909	152	30.241	30.610	29.841
22	4.392	4.722	3.992	88	17.511	17.874	17.111	153	30.441	30.809	30.039
23	4.590	4.923	4.179	89	17.709	18.074	17.307	154	30.639	31.008	30.239
24	4.788	5.123	4.388	90	17.909	18.273	17.509	155	30.838	31.207	30.437
25	4.987	5.323	4.577	91	18.108	18.472	17.705	156	31.038	31.406	30.638
26	5.185	5.523	4.785	92	18.306	18.671	17.906	157	31.236	31.605	30.835
27	5.384	5.723	4.975	93	18.505	18.870	18.103	158	31.435	31.804	31.035
28	5.582	5.922	5.182	94	18.704	19.069	18.304	159	31.634	32.003	31.233
29	5.781	6.122	5.371	95	18.903	19.268	18.501	160	31.833	32.202	31.433
30	5.979	6.321	5.579	96	19.102	19.467	18.702	161	32.032	32.401	31.630
31	6.178	6.521	5.770	97	19.301	19.666	18.898	162	32.231	32.600	31.831
32	6.376	6.721	5.976	98	19.500	19.865	19.100	163	32.430	32.799	32.082
33	6.575	6.921	6.168	99	19.699	20.064	19.296	164	32.629	32.998	32.229
34	6.774	7.120	6.374	100	19.898	20.263	19.498	165	32.828	33.197	32.426
35	6.973	7.319	6.565	101	20.096	20.462	19.694	166	33.027	33.396	32.627
36	7.171	7.519	6.771	102	20.296	20.661	19.896	167	33.226	33.595	32.824
37	7.370	7.718	6.963	103	20.494	20.860	20.092	168	33.424	33.794	33.024
38	7.569	7.918	7.169	104	20.693	21.059	20.293	169	33.624	33.993	33.222
39	7.768	8.117	7.361	105	20.893	21.258	20.490	170	33.823	34.192	33.423
40	7.966	8.316	7.566	106	21.091	21.457	20.691	171	34.021	34.391	33.620
41	8.165	8.516	7.759	107	21.290	21.656	20.888	172	34.220	34.589	33.820
42	8.364	8.715	7.964	108	21.489	21.855	21.089	173	34.419	34.789	34.018
43	8.563	8.914	8.157	109	21.688	22.054	21.286	174	36.618	34.988	34.218
44	8.761	9.114	8.361	110	21.887	22.253	21.487	175	34.817	35.186	34.416
45	8.960	9.313	8.554	111	22.086	22.452	21.684	176	35.016	35.386	34.616
46	9.159	9.512	8.759	112	22.284	22.651	21.884	177	35.215	35.584	34.814
47	9.358	9.711	8.952	113	22.484	22.850	22.081	178	35.414	35.783	35.014
48	9.556	9.911	9.156	114	22.683	23.049	22.283	179	35.613	35.983	35.211
49	9.755	10.110	9.350	115	22.881	23.248	22.479	180	35.812	36.181	35.412
50	9.954	10.309	9.554	116	23.080	23.447	22.680	181	36.011	36.380	35.609
51	10.153	10.508	9.748	117	23.279	23.646	22.827	182	36.209	36.579	35.809
52	10.351	10.708	9.951	118	23.478	23.845	23.078	183	36.409	36.778	36.007
53	10.550	10.907	10.146	119	23.677	24.004	23.275	184	36.608	36.977	36.208
54	10.749	11.106	10.349	120	23.876	24.243	23.476	185	36.806	37.176	36.405
55	10.948	11.305	10.543	121	24.075	24.442	23.673	186	37.005	37.375	36.605
56	11.147	11.504	10.747	122	24.274	24.641	23.874	187	37.204	37.574	36.803
57	11.346	11.703	10.941	123	24.473	24.840	24.071	188	37.403	37.773	37.003
58	11.544	11.903	11.144	124	24.672	25.039	24.272	189	37.602	39.972	37.201
59	11.743	12.102	11.339	125	24.871	25.238	24.469	190	37.801	38.171	37.401
60	11.942	12.301	11.542	126	25.069	25.437	24.669	191	38.000	38.370	37.599
61	12.141	12.500	11.737	127	25.269	25.636	24.867	192	38.199	38.569	37.799
62	12.340	12.699	11.940	128	25.468	25.834	25.068	193	38.398	38.768	37.998
63	12.539	12.898	12.135	129	25.666	26.034	25.264	194	38.597	38.967	38.197
64	12.738	13.098	12.338	130	25.865	26.233	25.465	195	38.796	39.166	38.394
65	12.936	13.296	12.533	131	26.064	26.432	25.662	196	38.994	39.364	38.594
66	13.135	13.496	12.735	132	26.263	26.631	25.863	197	39.194	39.564	38.792
67	13.334	13.694	12.930	133	26.462	26.829	26.060	198	39.393	39.763	38.993
68	13.533	13.894	13.133	134	26.661	27.029	26.261	199	39.591	39.961	39.190
69	13.732	14.093	13.328	135	26.860	27.228	26.458	200	39.791	40.161	39.391
70	13.931	14.292	13.531								

Martin Sprocket Diameters

No. 60 ¾" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	1.276	1.482	0.745	71	16.955	17.389	16.482	136	32.471	32.912	32.002
6	1.500	1.749	1.031	72	17.195	17.628	16.726	137	32.709	33.151	32.238
7	1.729	2.007	1.216	73	17.433	17.867	16.960	138	32.948	33.389	32.479
8	1.960	2.261	1.491	74	17.672	18.106	17.203	139	33.187	33.629	32.716
9	2.193	2.511	1.691	75	17.910	18.344	17.437	140	33.425	33.867	32.956
10	2.427	2.759	1.958	76	18.149	18.584	17.680	141	33.664	34.106	33.193
11	2.663	3.005	2.166	77	18.388	18.822	17.915	142	33.903	34.345	33.434
12	2.898	3.249	2.429	78	18.626	19.061	18.157	143	34.142	34.583	33.670
13	3.134	3.493	2.642	79	18.865	19.300	18.392	144	34.380	34.822	33.911
14	3.371	3.736	2.902	80	19.103	19.539	18.634	145	34.619	35.061	34.148
15	3.608	3.978	3.119	81	19.343	19.778	18.870	146	34.858	35.300	34.389
16	3.845	4.220	3.380	82	19.581	20.017	19.112	147	35.096	35.538	34.625
17	4.082	4.462	3.595	83	19.820	20.255	19.347	148	35.335	35.777	34.866
18	4.319	4.703	3.850	84	20.058	20.495	19.589	149	35.574	36.016	35.103
19	4.557	4.945	4.072	85	20.297	20.733	19.824	150	35.813	36.255	35.344
20	4.794	5.186	4.325	86	20.536	20.972	20.067	151	36.051	36.494	35.580
21	5.033	5.426	4.549	87	20.774	21.211	20.302	152	36.390	36.732	35.821
22	5.270	5.666	4.801	88	21.013	21.449	20.544	153	36.529	36.971	36.058
23	5.508	5.907	5.026	89	21.251	21.689	20.779	154	36.767	37.210	36.298
24	5.746	6.147	5.277	90	21.491	21.927	21.022	155	37.006	37.448	36.535
25	5.984	6.387	5.503	91	21.729	22.166	21.257	156	37.245	37.688	36.776
26	6.222	6.627	5.753	92	21.968	22.405	21.499	157	37.484	37.926	37.013
27	6.461	6.867	5.980	93	22.206	22.644	21.734	158	37.722	38.165	37.253
28	6.698	7.106	6.229	94	22.445	22.883	21.976	159	37.961	38.404	37.490
29	6.937	7.346	6.458	95	22.684	23.121	22.212	160	38.200	38.642	37.731
30	7.175	7.586	6.706	96	22.922	23.360	22.453	161	38.438	38.881	37.968
31	7.413	7.826	6.935	97	23.162	23.599	22.689	162	38.677	39.120	38.208
32	7.652	8.065	7.183	98	23.400	23.838	22.931	163	38.916	39.359	38.445
33	7.890	8.305	7.412	99	23.639	24.077	23.167	164	39.155	39.597	38.686
34	8.129	8.544	7.660	100	23.877	24.316	23.408	165	39.393	39.836	38.922
35	8.367	8.783	7.889	101	24.116	24.554	23.644	166	39.632	40.075	39.163
36	8.606	9.023	8.137	102	24.355	24.793	23.886	167	39.871	40.314	39.400
37	8.844	9.262	8.367	103	24.593	25.032	24.121	168	40.109	40.553	39.640
38	9.083	9.501	8.614	104	24.832	25.271	24.363	169	40.349	40.791	39.877
39	9.321	9.740	8.844	105	25.071	25.510	24.599	170	40.587	41.030	40.118
40	9.560	9.980	9.091	106	25.310	25.748	24.841	171	40.826	41.269	40.355
41	9.798	10.219	9.321	107	25.548	25.987	25.076	172	41.064	41.507	40.595
42	10.037	10.458	9.568	108	25.787	26.226	25.318	173	41.303	41.747	40.832
43	10.275	10.697	9.799	109	26.026	26.465	25.554	174	41.542	41.985	41.073
44	10.514	10.937	10.045	110	26.264	26.704	25.795	175	41.780	42.224	41.310
45	10.752	11.176	10.276	111	26.503	26.942	26.031	176	42.020	42.463	41.551
46	10.991	11.414	10.522	112	26.741	27.181	26.272	177	42.258	42.701	41.787
47	11.229	11.654	10.754	113	26.981	27.420	26.507	178	42.497	42.940	42.028
48	11.468	11.893	10.999	114	27.219	27.659	26.750	179	42.735	43.179	42.265
49	11.706	12.132	11.231	115	27.458	27.898	26.986	180	42.974	43.418	42.505
50	11.945	12.371	11.476	116	27.696	28.136	27.227	181	43.213	43.656	42.742
51	12.183	12.610	11.708	117	27.935	28.375	27.464	182	43.451	43.895	42.982
52	12.422	12.849	11.953	118	28.174	28.614	27.705	183	43.691	44.134	43.220
53	12.660	13.088	12.186	119	28.412	28.853	27.941	184	43.929	44.372	43.460
54	12.899	13.327	12.430	120	28.652	29.091	28.183	185	44.168	44.612	43.697
55	13.137	13.566	12.663	121	28.890	29.330	28.418	186	44.406	44.850	43.937
56	13.376	13.805	12.907	122	29.129	29.569	28.660	187	44.645	45.089	44.174
57	13.615	14.044	13.140	123	29.367	29.808	28.896	188	44.884	45.328	44.415
58	13.853	14.283	13.384	124	29.606	30.047	29.137	189	45.122	45.566	44.652
59	14.092	14.522	13.618	125	29.845	30.285	29.373	190	45.362	45.805	44.893
60	14.330	14.761	13.861	126	30.083	30.524	29.614	191	45.600	46.044	45.129
61	14.570	15.000	14.095	127	30.323	30.763	29.851	192	45.839	46.283	45.370
62	14.808	15.239	14.339	128	30.561	31.001	30.092	193	46.077	46.521	45.607
63	15.047	15.478	14.573	129	30.800	31.241	30.328	194	46.316	46.760	45.847
64	15.285	15.717	14.816	130	31.038	31.479	30.569	195	46.555	46.999	46.084
65	15.524	15.956	15.050	131	31.277	31.718	30.806	196	46.793	47.237	46.324
66	15.762	16.195	15.293	132	31.516	31.957	31.047	197	47.033	47.477	46.562
67	16.001	16.433	15.528	133	31.754	32.195	31.283	198	47.271	47.715	46.802
68	16.240	16.673	15.771	134	31.993	32.435	31.524	199	47.510	47.954	47.039
69	16.478	16.911	16.005	135	32.232	32.673	31.761	200	47.749	48.193	47.280
70	16.717	17.150	16.248								

No. 80
1" Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	1.701	1.976	0.993	71	22.607	23.185	21.977	136	43.294	43.882	42.669
6	2.000	2.332	1.375	72	22.926	23.504	22.301	137	43.612	44.201	42.984
7	2.305	2.676	1.622	73	23.244	23.822	22.613	138	43.931	44.519	43.306
8	2.613	3.014	1.988	74	23.562	24.141	22.937	139	44.249	44.838	43.621
9	2.924	3.348	2.254	75	23.880	24.459	23.250	140	44.567	45.156	43.942
10	3.236	3.678	2.611	76	24.198	24.778	23.573	141	44.885	45.474	44.258
11	3.550	4.006	2.888	77	24.517	25.096	23.887	142	45.204	45.793	44.579
12	3.864	4.332	3.239	78	24.835	25.415	24.210	143	45.522	46.111	44.894
13	4.179	4.657	3.523	79	25.153	25.733	24.523	144	45.840	46.429	45.215
14	4.494	4.981	3.869	80	25.471	26.052	24.846	145	46.158	46.748	45.531
15	4.810	5.304	4.158	81	25.790	26.370	25.160	146	46.477	47.066	45.852
16	5.126	5.627	4.501	82	26.108	26.689	25.483	147	46.795	47.384	46.167
17	5.442	5.949	4.794	83	26.426	27.007	25.796	148	47.113	47.703	46.488
18	5.759	6.271	5.134	84	26.744	27.326	26.119	149	47.432	48.021	46.804
19	6.076	6.593	5.430	85	27.062	27.644	26.433	150	47.750	48.340	47.125
20	6.392	6.914	5.767	86	27.381	27.962	26.756	151	48.068	48.658	47.441
21	6.710	7.235	6.066	87	27.699	28.281	27.069	152	48.386	48.976	47.761
22	7.027	7.555	6.402	88	28.017	28.599	27.392	153	48.705	49.295	48.077
23	7.344	7.876	6.702	89	28.335	28.918	27.706	154	49.023	49.613	48.398
24	7.661	8.196	7.036	90	28.654	29.236	28.029	155	49.341	49.931	48.714
25	7.979	8.516	7.338	91	28.972	29.555	28.343	156	49.660	50.250	49.035
26	8.296	8.836	7.671	92	29.290	29.873	28.665	157	49.978	50.568	49.351
27	8.614	9.156	7.974	93	29.608	30.192	28.979	158	50.296	50.886	49.671
28	8.931	9.475	8.306	94	29.927	30.510	29.302	159	50.615	51.205	49.987
29	9.249	9.795	8.611	95	30.245	30.828	29.616	160	50.933	51.523	50.308
30	9.567	10.114	8.942	96	30.563	31.147	29.938	161	51.251	51.841	50.624
31	9.884	10.434	9.247	97	30.822	31.465	30.252	162	51.569	52.160	50.944
32	10.202	10.753	9.577	98	31.200	31.784	30.575	163	51.888	52.478	51.260
33	10.520	11.073	9.883	99	31.518	32.102	30.889	164	52.206	52.796	51.581
34	10.838	11.392	10.213	100	31.836	32.421	31.211	165	52.524	53.115	51.897
35	11.156	11.711	10.520	101	32.154	32.739	31.526	166	52.843	53.433	52.218
36	11.471	12.030	10.849	102	32.473	33.057	31.848	167	53.161	53.752	52.533
37	11.792	12.349	11.156	103	32.791	33.376	32.162	168	53.479	54.070	52.854
38	12.110	12.668	11.485	104	33.109	33.694	32.484	169	53.798	54.388	53.170
39	12.428	12.987	11.792	105	33.428	34.013	32.799	170	54.116	54.707	53.491
40	12.746	13.306	12.121	106	33.746	34.331	33.121	171	54.434	55.025	53.807
41	13.064	13.625	12.429	107	34.064	34.649	33.435	172	54.752	55.343	54.127
42	13.382	13.944	12.757	108	34.382	34.968	33.757	173	55.071	55.662	54.443
43	13.700	14.263	13.065	109	34.701	35.286	34.072	174	55.389	55.980	54.764
44	14.018	14.582	13.393	110	35.019	35.605	34.394	175	55.707	56.298	55.080
45	14.336	14.901	13.702	111	35.337	35.923	34.709	176	56.026	56.617	55.401
46	14.654	15.219	14.029	112	35.655	36.241	35.030	177	56.344	56.935	55.717
47	14.972	15.538	14.338	113	35.974	36.560	35.345	178	56.662	57.253	56.037
48	15.290	15.857	14.665	114	36.292	36.878	35.667	179	56.980	57.572	56.353
49	15.608	16.176	14.975	115	36.610	37.197	35.982	180	57.299	57.890	56.674
50	15.926	16.495	15.301	116	36.928	37.515	36.303	181	57.617	58.208	56.990
51	16.244	16.813	15.611	117	37.274	37.833	36.618	182	57.935	58.527	57.310
52	16.562	17.132	15.937	118	37.565	38.152	36.940	183	58.254	58.845	57.626
53	16.880	17.451	16.248	119	37.883	38.470	37.255	184	58.572	59.163	57.947
54	17.198	17.769	16.573	120	38.202	38.788	37.577	185	58.890	59.482	58.263
55	17.516	18.088	16.884	121	38.520	39.107	37.892	186	59.208	59.800	58.583
56	17.835	18.407	17.210	122	38.838	39.425	38.213	187	59.527	60.118	58.900
57	18.153	18.725	17.521	123	39.156	39.744	38.528	188	59.845	60.437	59.220
58	18.471	19.044	17.846	124	39.457	40.062	38.850	189	60.163	60.755	59.536
59	18.789	19.363	18.157	125	39.793	40.380	39.165	190	60.482	61.073	59.857
60	19.107	19.681	18.482	126	40.111	40.699	39.486	191	60.800	61.392	60.173
61	19.426	20.000	18.794	127	40.430	41.017	39.801	192	61.118	61.710	60.493
62	19.744	20.318	19.119	128	40.748	41.335	40.123	193	61.436	62.028	60.809
63	20.062	20.637	19.431	129	41.066	41.654	40.438	194	61.755	62.347	61.130
64	20.380	20.956	19.755	130	41.384	41.972	40.759	195	62.073	62.665	61.447
65	20.698	21.274	20.067	131	41.703	42.291	41.075	196	62.391	62.983	61.756
66	21.016	21.593	20.391	132	42.021	42.609	41.396	197	62.710	63.302	62.083
67	21.335	21.911	20.704	133	42.339	42.927	41.711	198	63.028	63.620	62.403
68	21.653	22.230	21.028	134	42.657	43.246	42.032	199	63.346	63.938	62.719
69	21.971	22.548	21.340	135	42.976	43.564	42.348	200	63.665	64.257	63.040
70	22.289	22.867	21.664								

Martin Sprocket Diameters

No. 100 1¼" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	2.126	2.470	1.273	71	28.259	28.981	27.502	136	54.118	54.853	53.368
6	2.500	2.915	1.750	72	28.658	29.380	27.908	137	54.515	55.251	53.762
7	2.881	3.345	2.059	73	29.055	29.778	28.298	138	54.914	55.649	54.164
8	3.266	3.768	2.516	74	29.453	30.176	28.703	139	55.311	56.048	54.558
9	3.655	4.185	2.849	75	29.850	30.574	29.094	140	55.709	56.445	54.959
10	4.045	4.598	3.295	76	30.248	30.973	29.498	141	56.106	56.843	55.353
11	4.438	5.008	3.639	77	30.646	31.370	29.890	142	56.505	57.241	55.755
12	4.830	5.415	4.080	78	31.044	31.769	30.294	143	56.903	57.639	56.149
13	5.224	5.821	4.435	79	31.441	32.166	30.685	144	57.300	58.036	56.550
14	5.618	6.226	4.868	80	31.839	32.565	31.089	145	57.698	58.435	56.945
15	6.013	6.630	5.229	81	32.238	32.963	31.481	146	58.096	58.833	57.346
16	6.408	7.034	5.658	82	32.635	33.361	31.885	147	58.494	59.230	57.741
17	6.803	7.436	6.024	83	33.033	33.759	32.277	148	58.891	59.629	58.141
18	7.199	7.839	6.449	84	33.430	34.158	32.680	149	59.290	60.026	58.536
19	7.595	8.241	6.819	85	33.828	34.555	33.072	150	59.688	60.425	58.938
20	7.990	8.643	7.240	86	34.226	34.953	33.476	151	60.085	60.823	59.332
21	8.388	9.044	7.613	87	34.624	35.351	33.868	152	60.483	61.220	59.733
22	8.784	9.444	8.034	88	35.022	35.749	34.272	153	60.881	61.619	60.128
23	9.180	9.845	8.409	89	35.419	36.148	34.664	154	61.279	62.016	60.529
24	9.576	10.245	8.827	90	35.818	36.545	35.068	155	61.676	62.414	60.924
25	9.974	10.645	9.204	91	36.215	36.944	35.460	156	62.075	62.813	61.325
26	10.370	11.045	9.620	92	36.613	37.341	35.863	157	62.473	63.210	61.719
27	10.768	11.445	9.999	93	37.010	37.740	36.255	158	62.870	63.608	62.120
28	11.164	11.844	10.414	94	37.409	38.138	36.659	159	63.269	64.006	62.515
29	11.561	12.244	10.794	95	37.806	38.535	37.051	160	63.666	64.404	62.916
30	11.959	12.643	11.209	96	38.204	38.934	37.454	161	64.064	64.801	63.311
31	12.355	13.043	11.590	97	38.603	39.331	37.847	162	64.461	65.200	63.711
32	12.753	13.441	12.003	98	39.000	39.730	38.250	163	64.860	65.598	64.107
33	13.150	13.841	12.385	99	39.398	40.128	38.643	164	65.258	65.995	64.508
34	13.548	14.240	12.798	100	39.795	40.526	39.045	165	65.655	66.394	64.902
35	13.945	14.639	13.181	101	40.193	40.924	39.438	166	66.054	66.791	65.304
36	14.343	15.038	13.593	102	40.591	41.321	39.841	167	66.451	67.190	65.698
37	14.740	15.436	13.976	103	40.989	41.720	40.234	168	66.849	67.588	66.099
38	15.138	15.835	14.388	104	41.386	42.118	40.636	169	67.248	67.985	66.494
39	15.535	16.234	14.772	105	41.785	42.516	41.030	170	67.645	68.384	66.895
40	15.933	16.633	15.183	106	42.183	42.914	41.433	171	68.043	68.781	67.290
41	16.330	17.031	15.567	107	42.580	43.311	41.826	172	68.440	69.179	67.690
42	16.728	17.430	15.978	108	42.978	43.710	42.228	173	68.839	69.578	68.086
43	17.125	17.829	16.363	109	43.376	44.108	42.621	174	69.236	69.975	68.486
44	17.523	18.228	16.773	110	43.774	44.506	43.024	175	69.634	70.373	68.881
45	17.920	18.626	17.159	111	44.171	44.904	43.420	176	70.033	70.771	69.283
46	18.318	19.024	17.568	112	44.569	45.301	43.819	177	70.430	71.169	69.677
47	18.715	19.423	17.954	113	44.968	45.700	44.213	178	70.828	71.566	70.078
48	19.113	19.821	18.363	114	45.365	46.098	44.615	179	71.225	71.965	70.473
49	19.510	20.220	18.750	115	45.763	46.496	45.009	180	71.624	72.363	70.874
50	19.908	20.619	19.158	116	46.160	46.894	45.410	181	72.021	72.760	71.269
51	20.305	21.016	19.546	117	46.559	47.291	45.804	182	72.419	73.159	71.669
52	20.703	21.415	19.953	118	46.956	47.690	46.206	183	72.818	73.556	72.064
53	21.100	21.814	20.341	119	47.354	48.088	46.600	184	73.215	73.954	72.465
54	21.498	22.211	20.748	120	47.753	48.485	47.003	185	73.613	74.353	72.860
55	21.895	22.610	21.137	121	48.150	48.884	47.396	186	74.010	74.750	73.260
56	22.294	23.009	21.544	122	48.548	49.281	47.798	187	74.409	75.148	73.656
57	22.691	23.406	21.932	123	48.945	49.680	48.192	188	74.806	75.546	74.056
58	23.089	23.805	22.339	124	49.344	50.078	48.594	189	75.204	75.944	74.452
59	23.486	24.204	22.728	125	49.741	50.475	48.987	190	75.603	76.341	74.853
60	23.884	24.601	23.134	126	50.139	50.874	49.389	191	76.000	76.740	75.247
61	24.283	25.000	23.524	127	50.538	51.271	49.783	192	76.398	771.38	75.648
62	24.680	25.398	23.930	128	50.935	51.669	50.185	193	76.795	77.535	76.043
63	25.078	25.796	24.320	129	51.333	52.068	50.579	194	77.194	77.934	76.444
64	25.475	26.195	24.725	130	51.730	52.465	50.980	195	77.591	78.331	76.839
65	25.873	26.593	25.115	131	52.129	52.864	51.375	196	77.989	78.729	77.239
66	26.270	26.991	25.520	132	52.526	53.261	51.776	197	78.388	79.128	77.635
67	26.669	27.389	25.911	133	52.924	53.659	52.170	198	78.785	79.525	78.035
68	27.066	27.788	26.316	134	53.321	54.058	52.571	199	79.183	79.923	78.430
69	27.464	28.185	26.707	135	53.720	54.455	52.966	200	79.581	80.321	78.831
70	27.861	28.584	27.111								

No. 120
1½" Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	2.552	2.964	1.552	71	33.911	34.778	33.028	136	64.941	65.823	64.066
6	3.000	3.498	2.125	72	34.389	35.256	33.514	137	65.418	66.302	64.539
7	3.458	4.014	2.496	73	34.866	35.733	33.983	138	65.897	66.779	65.022
8	3.920	4.521	3.045	74	35.343	36.212	34.468	139	66.374	67.257	65.494
9	4.386	5.022	3.444	75	35.820	36.689	34.938	140	66.851	67.734	65.976
10	4.854	5.517	3.979	76	36.297	37.167	35.422	141	67.328	68.211	66.449
11	5.325	6.009	4.392	77	36.776	37.644	35.892	142	67.806	68.690	66.931
12	5.796	6.498	4.921	78	37.253	38.123	36.378	143	68.283	69.167	67.404
13	6.269	6.986	5.347	79	37.730	38.600	36.847	144	68.760	69.644	67.885
14	6.741	7.472	5.866	80	38.207	39.078	37.332	145	69.237	70.122	68.359
15	7.215	7.956	6.300	81	38.685	39.555	37.802	146	69.716	70.599	68.841
16	7.689	8.441	6.814	82	39.162	40.034	38.287	147	70.193	71.076	69.314
17	8.163	8.924	7.254	83	39.639	40.511	38.757	148	70.670	71.555	69.795
18	8.639	9.407	7.764	84	40.116	40.989	39.241	149	71.148	72.032	70.269
19	9.114	9.890	8.207	85	40.593	41.466	39.712	150	71.625	72.510	70.750
20	9.588	10.371	8.713	86	41.072	41.943	40.197	151	72.102	72.987	71.224
21	10.065	10.853	9.161	87	41.549	42.422	40.667	152	72.579	73.464	71.704
22	10.541	11.333	9.666	88	42.026	42.899	41.151	153	73.058	73.943	72.178
23	11.016	11.814	10.115	89	42.503	43.377	41.622	154	73.535	74.420	72.660
24	11.492	12.294	10.617	90	42.981	43.854	42.106	155	74.012	74.897	73.133
25	11.969	12.774	11.070	91	43.458	44.333	42.576	156	74.490	75.375	73.615
26	12.444	13.254	11.569	92	43.935	44.810	43.060	157	74.967	75.852	74.088
27	12.921	13.734	12.024	93	44.412	45.288	43.531	158	75.444	76.329	74.569
28	13.397	14.213	12.522	94	44.891	45.765	44.016	159	75.923	76.808	75.043
29	13.874	14.693	12.978	95	45.368	46.242	44.48	160	76.400	77.285	75.525
30	14.351	15.171	13.476	96	45.845	46.721	44.970	161	76.877	77.762	75.998
31	14.826	15.651	13.933	97	46.323	47.198	45.441	162	77.354	78.240	76.479
32	15.303	16.130	14.428	98	46.800	47.676	45.925	163	77.832	78.717	76.953
33	15.780	16.610	14.887	99	47.277	48.153	46.396	164	78.309	79.194	77.434
34	16.257	17.088	15.382	100	47.754	48.632	46.879	165	78.786	79.673	77.908
35	16.734	17.567	15.842	101	48.231	49.109	47.351	166	79.265	80.150	78.390
36	17.211	18.045	16.336	102	48.710	49.586	47.835	167	79.742	80.628	78.863
37	17.688	18.524	16.797	103	49.187	50.064	48.306	168	80.219	81.105	79.344
38	18.165	19.002	17.290	104	49.664	50.541	48.789	169	80.697	81.582	79.818
39	18.642	19.481	17.751	105	50.142	51.020	49.261	170	81.174	82.061	80.299
40	19.119	19.959	18.244	106	50.619	51.497	49.744	171	81.651	82.538	80.773
41	19.596	20.438	18.706	107	51.096	51.974	50.216	172	82.128	83.015	81.253
42	20.073	20.916	19.198	108	51.573	52.452	50.698	173	82.607	83.493	81.728
43	20.550	21.395	19.661	109	52.052	52.929	51.171	174	83.084	83.970	82.209
44	21.027	21.873	20.152	110	52.529	53.408	51.654	175	83.561	84.447	82.683
45	21.504	22.352	20.615	111	53.006	53.885	52.125	176	84.039	84.926	83.164
46	21.981	22.829	21.106	112	53.483	54.362	52.608	177	84.501	85.403	83.637
47	22.458	23.307	21.570	113	53.961	54.840	53.080	178	84.993	85.880	84.118
48	22.935	23.786	22.060	114	54.438	55.317	53.563	179	85.470	86.358	84.592
49	23.412	24.264	22.525	115	54.915	55.796	54.035	180	85.949	86.835	85.074
50	23.889	24.743	23.014	116	55.392	56.273	54.517	181	86.426	87.312	85.547
51	24.366	25.220	23.480	117	55.871	56.750	54.990	182	86.903	87.791	86.028
52	24.843	25.698	23.968	118	56.348	57.228	55.473	183	87.381	88.268	86.502
53	25.320	26.177	24.434	119	56.825	57.705	55.945	184	87.858	88.745	86.983
54	25.797	26.654	24.922	120	57.303	58.182	56.428	185	88.335	89.223	87.457
55	26.274	27.132	25.389	121	57.780	58.661	56.900	186	88.812	89.700	87.937
56	26.753	27.611	25.878	122	58.257	59.138	57.382	187	89.291	90.177	88.412
57	27.230	28.088	26.344	123	58.734	59.616	57.855	188	89.768	90.656	88.893
58	27.707	28.566	26.832	124	59.213	60.093	58.338	189	90.245	91.133	89.367
59	28.184	29.045	27.299	125	59.690	60.570	58.810	190	90.723	91.610	89.848
60	28.661	29.522	27.786	126	60.167	61.049	59.292	191	91.200	92.088	90.322
61	29.139	30.000	28.254	127	60.645	61.526	59.765	192	91.677	92.565	90.802
62	29.616	30.477	28.741	128	61.122	62.003	60.247	193	92.154	93.042	91.277
63	30.093	30.956	29.208	129	61.599	62.481	60.720	194	92.633	93.521	91.758
64	30.570	31.434	29.695	130	62.076	62.958	61.201	195	93.110	93.998	92.232
65	31.047	31.911	30.163	131	62.555	63.437	61.674	196	93.587	94.475	92.712
66	31.524	32.390	30.649	132	63.032	63.914	62.157	197	94.065	94.953	93.187
67	32.003	32.867	31.118	133	63.509	64.391	62.629	198	94.542	95.430	93.667
68	32.480	33.345	31.605	134	63.986	64.869	63.111	199	95.019	95.907	94.141
69	32.957	33.822	32.073	135	64.464	65.346	63.584	200	95.498	96.386	94.623
70	33.434	34.301	32.559								

Martin Sprocket Diameters

No. 140 1¾" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	2.977	3.458	1.832	71	39.562	40.574	38.553	136	75.765	76.794	74.765
6	3.500	4.081	2.500	72	40.121	41.132	39.121	137	76.321	77.352	75.316
7	4.034	4.683	2.932	73	40.677	41.689	39.667	138	76.879	77.908	75.879
8	4.573	5.275	3.573	74	41.234	42.247	40.234	139	77.436	78.467	76.431
9	5.117	5.859	4.039	75	41.790	42.803	40.781	140	78.008	79.023	77.008
10	5.663	6.437	4.663	76	42.347	43.362	41.347	141	78.549	79.580	77.545
11	6.213	7.011	5.148	77	42.905	43.918	41.895	142	79.107	80.138	78.107
12	6.762	7.581	5.762	78	43.461	44.476	42.461	143	79.664	80.694	78.484
13	7.313	8.150	6.259	79	44.018	45.033	43.009	144	80.220	81.251	79.220
14	7.865	8.717	6.865	80	44.574	45.591	43.574	145	80.777	81.809	79.773
15	8.418	9.282	7.371	81	45.133	46.148	44.123	146	81.335	82.366	80.335
16	8.971	9.847	7.971	82	45.689	46.706	44.689	147	81.891	82.922	80.887
17	9.524	10.411	8.483	83	46.246	47.262	45.237	148	82.448	83.480	81.448
18	10.078	10.974	9.078	84	46.802	47.821	45.802	149	83.006	84.037	82.000
19	10.633	11.538	9.596	85	47.359	48.377	46.351	150	83.563	84.595	82.563
20	11.186	12.100	10.186	86	47.917	48.934	46.917	151	84.119	85.152	83.115
21	11.743	12.661	10.709	87	48.473	49.492	47.465	152	84.676	85.708	83.676
22	12.297	13.221	11.297	88	49.030	50.048	48.030	153	85.234	86.266	84.229
23	12.852	13.783	11.822	89	49.586	50.607	48.579	154	85.790	86.823	84.790
24	13.407	14.343	12.407	90	50.145	51.163	49.145	155	86.347	87.379	85.343
25	13.963	14.903	12.935	91	50.701	51.721	49.693	156	86.905	87.938	85.905
26	14.518	15.463	13.518	92	51.258	52.278	50.258	157	87.462	88.494	86.457
27	15.075	16.023	14.049	93	51.814	52.836	50.807	158	88.018	89.051	87.018
28	15.629	16.581	14.629	94	52.372	53.393	51.372	159	88.576	89.609	87.571
29	16.186	17.141	15.162	95	52.929	53.949	51.921	160	89.133	90.165	88.133
30	16.742	17.700	15.742	96	53.485	54.507	52.485	161	89.689	90.722	88.685
31	17.297	18.260	16.276	97	54.044	55.064	53.035	162	90.246	91.280	89.246
32	17.854	18.818	16.854	98	54.600	55.622	53.600	163	90.804	91.837	89.799
33	18.410	19.378	17.389	99	55.157	56.179	54.150	164	91.361	92.393	90.361
34	18.967	19.936	17.967	100	55.713	56.737	54.713	165	91.917	92.951	90.913
35	19.523	20.494	18.503	101	56.270	57.293	55.264	166	92.475	93.508	91.475
36	20.080	21.053	19.080	102	56.828	57.850	55.828	167	93.032	94.066	92.027
37	20.636	21.611	19.617	103	57.384	58.408	56.378	168	93.588	94.623	92.588
38	21.193	22.169	20.193	104	57.941	58.965	56.941	169	94.147	95.179	93.141
39	21.749	22.727	20.730	105	58.499	59.523	57.492	170	94.703	95.737	93.703
40	22.306	23.286	21.306	106	59.056	60.079	58.056	171	95.260	96.294	94.255
41	22.862	23.844	21.844	107	59.612	60.636	58.606	172	95.816	96.850	94.816
42	23.419	24.402	22.419	108	60.169	61.194	59.169	173	96.374	97.409	95.370
43	23.975	24.960	22.958	109	60.727	61.751	59.720	174	96.931	97.965	95.931
44	24.532	25.519	23.532	110	61.283	62.309	60.283	175	97.487	98.522	96.484
45	25.088	26.077	24.072	111	61.840	62.865	60.834	176	98.046	99.080	97.046
46	25.645	26.633	24.645	112	62.396	63.422	61.396	177	98.602	99.636	97.598
47	26.201	27.192	25.186	113	62.955	63.980	61.948	178	99.159	100.193	98.159
48	26.758	27.750	25.758	114	63.511	64.537	62.511	179	99.715	100.751	98.712
49	27.314	28.308	26.300	115	64.068	65.095	63.062	180	100.273	101.308	99.273
50	27.871	28.866	26.871	116	64.624	65.651	63.624	181	100.830	101.864	99.826
51	28.427	29.423	27.414	117	65.182	66.208	64.176	182	101.386	102.422	100.386
52	28.984	29.981	27.984	118	65.739	66.766	64.739	183	101.945	102.979	100.940
53	29.540	30.539	28.528	119	66.295	67.323	65.290	184	102.501	103.535	101.501
54	30.097	31.096	29.097	120	66.854	67.879	65.854	185	103.058	104.094	102.054
55	30.653	31.654	29.641	121	67.410	68.437	66.404	186	103.614	104.650	102.614
56	31.211	32.212	30.211	122	67.967	68.994	66.967	187	104.172	105.207	103.168
57	31.768	32.769	30.755	123	68.523	69.552	67.518	188	104.729	105.765	103.729
58	32.324	33.327	31.324	124	69.081	70.109	68.081	189	105.285	106.321	104.282
59	32.881	33.885	31.869	125	69.638	70.665	68.632	190	105.844	106.878	104.844
60	33.437	34.442	32.437	126	70.194	71.223	69.194	191	106.400	107.436	105.396
61	33.996	35.000	32.983	127	70.753	71.780	69.746	192	106.957	107.993	105.957
62	34.552	35.557	33.552	128	71.309	72.336	70.309	193	107.513	108.549	106.510
63	35.109	36.115	34.097	129	71.866	72.895	70.860	194	108.071	109.107	107.071
64	35.665	36.673	34.665	130	72.422	73.451	71.422	195	108.628	109.664	107.624
65	36.222	37.230	35.211	131	72.980	74.009	71.974	196	109.184	110.220	108.184
66	36.778	37.788	35.778	132	73.537	74.566	72.537	197	109.743	110.779	108.738
67	37.336	38.344	36.325	133	74.093	75.122	73.088	198	110.299	111.335	109.299
68	37.893	38.903	36.893	134	74.650	75.681	73.650	199	110.856	111.892	109.853
69	38.449	39.459	37.439	135	75.208	76.237	74.202	200	111.414	112.450	110.414
0	39.006	40.017	38.006								

No. 160
2" Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	3.402	3.952	2.111	71	45.214	46.370	44.079	136	86.588	87.764	85.463
6	4.000	4.664	2.875	72	45.852	47.008	44.727	137	87.224	88.402	86.094
7	4.610	5.352	3.369	73	46.488	47.644	45.352	138	87.862	89.038	86.737
8	5.226	6.028	4.101	74	47.124	48.282	45.999	139	88.498	89.676	87.367
9	5.848	6.696	4.635	75	47.760	48.918	46.625	140	89.134	90.312	88.009
10	6.472	7.356	5.347	76	48.396	49.556	47.271	141	89.770	90.948	88.640
11	7.100	8.012	5.902	77	49.034	50.192	47.898	142	90.408	91.586	89.283
12	7.728	8.664	6.603	78	49.670	50.830	48.545	143	91.044	92.222	89.913
13	8.358	9.314	7.171	79	50.306	51.466	49.171	144	91.680	92.858	90.555
14	8.988	9.962	7.863	80	50.942	52.104	49.817	145	92.316	93.496	91.187
15	9.620	10.608	8.442	81	51.580	52.740	50.444	146	92.945	94.132	91.829
16	10.252	11.254	9.127	82	52.216	53.378	51.091	147	93.590	94.768	92.460
17	10.844	11.898	9.713	83	52.852	54.014	51.718	148	94.226	95.406	93.101
18	11.518	12.542	10.393	84	53.488	54.652	52.363	149	94.864	96.042	93.733
19	12.152	13.186	10.985	85	54.124	55.288	52.991	150	95.500	96.680	94.375
20	12.784	13.828	11.659	86	54.762	55.924	53.637	151	96.136	97.316	95.006
21	13.420	14.470	12.256	87	55.398	56.562	54.264	152	96.772	97.952	95.647
22	14.054	15.110	12.929	88	56.034	57.198	54.909	153	97.410	98.590	96.280
23	14.688	15.752	13.529	89	56.670	57.836	55.537	154	98.046	99.226	96.921
24	15.322	16.392	14.197	90	57.308	58.472	56.183	155	98.682	99.862	97.553
25	15.958	17.032	14.801	91	57.944	59.110	56.810	156	99.320	100.500	98.195
26	16.592	17.672	15.467	92	58.580	59.746	57.455	157	99.956	101.136	98.826
27	17.228	18.312	16.073	93	59.216	60.384	58.083	158	100.592	101.772	99.467
28	17.862	18.950	16.737	94	59.854	61.020	58.729	159	101.230	102.410	100.099
29	18.498	19.590	17.346	95	60.490	61.656	59.357	160	101.866	103.046	100.741
30	19.134	20.228	18.009	96	61.126	62.294	60.001	161	102.502	103.682	101.372
31	19.768	20.868	18.619	97	61.764	62.930	60.630	162	103.138	104.320	102.013
32	20.404	21.506	19.279	98	62.400	63.568	61.275	163	103.776	104.956	102.646
33	21.040	22.146	19.891	99	63.036	64.204	61.903	164	104.412	105.592	103.287
34	21.676	22.784	20.551	100	63.672	64.842	62.547	165	105.048	106.230	103.919
35	22.312	23.422	21.164	101	64.308	65.478	63.176	166	105.686	106.866	104.561
36	22.948	24.060	21.823	102	64.946	66.114	63.821	167	106.322	107.504	105.192
37	23.584	24.698	22.437	103	65.582	66.752	64.449	168	106.958	108.140	105.833
38	24.220	25.336	23.095	104	66.218	67.388	65.093	169	107.596	108.776	106.465
39	24.856	25.974	23.710	105	66.856	68.026	65.723	170	108.232	109.414	107.107
40	25.492	26.612	24.367	106	67.492	68.662	66.367	171	108.868	110.050	107.738
41	26.128	27.250	24.983	107	68.128	69.298	66.996	172	109.504	110.686	108.379
42	26.764	27.888	25.639	108	68.764	69.936	67.639	173	110.142	111.324	109.012
43	27.400	28.526	26.256	109	69.402	70.572	68.269	174	110.778	111.960	109.653
44	28.036	29.164	26.911	110	70.038	70.210	68.913	175	111.414	112.596	110.285
45	28.672	29.802	27.529	111	70.674	71.846	69.542	176	112.052	113.234	110.927
46	29.308	30.438	28.183	112	71.310	72.482	70.185	177	112.688	113.870	111.558
47	29.944	31.076	28.802	113	71.948	73.120	70.815	178	113.324	114.506	112.199
48	30.580	31.714	29.455	114	72.584	73.756	71.459	179	113.960	115.144	112.831
49	31.216	32.352	30.075	115	73.220	74.394	72.089	180	114.598	115.780	113.473
50	31.852	32.990	30.727	116	73.856	75.030	72.731	181	115.234	116.416	114.105
51	32.488	33.626	31.348	117	74.494	75.666	73.362	182	115.870	117.054	114.745
52	33.124	34.264	31.999	118	75.130	76.304	74.005	183	116.508	117.690	115.388
53	33.760	34.902	32.621	119	75.766	76.940	74.645	184	117.114	118.326	116.019
54	34.396	35.538	33.271	120	76.404	77.576	75.279	185	117.780	118.964	116.651
55	35.032	36.176	33.894	121	77.040	78.214	75.908	186	118.416	119.600	117.291
56	35.670	36.814	34.545	122	77.676	78.850	76.551	187	119.054	120.236	117.924
57	36.306	37.450	35.167	123	78.312	79.488	77.181	188	119.690	120.874	118.565
58	36.942	38.088	35.817	124	78.950	80.124	77.825	189	120.326	121.150	119.197
59	37.578	38.726	36.440	125	79.586	80.760	78.455	190	120.964	122.146	119.839
60	38.214	39.362	37.089	126	80.222	81.398	79.097	191	121.600	122.784	120.471
61	38.852	40.000	37.713	127	80.860	82.034	79.728	192	122.236	123.420	121.111
62	39.488	40.636	38.363	128	81.496	82.670	80.371	193	122.872	124.056	121.744
63	40.124	41.274	38.986	129	82.132	83.308	81.001	194	123.510	124.694	122.385
64	40.760	41.912	39.635	130	82.768	83.944	81.643	195	124.146	125.330	123.017
65	41.396	42.548	40.259	131	83.406	84.582	82.274	196	124.781	125.966	123.656
66	42.032	43.186	40.907	132	84.042	85.218	82.917	197	125.420	126.604	124.290
67	42.670	43.822	41.532	133	84.678	85.854	83.547	198	126.056	127.240	124.931
68	43.306	44.460	42.181	134	85.314	86.492	84.189	199	126.692	127.876	125.564
69	43.942	45.096	42.806	135	85.952	87.128	84.820	200	127.330	128.514	126.205
70	44.578	45.734	43.453								

Martin Sprocket Diameters

No. 180 2¼" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	3.828	4.446	2.234	71	50.866	52.166	49.448	136	97.412	98.735	96.006
6	4.500	5.247	3.094	72	51.583	52.884	50.177	137	98.128	99.452	96.715
7	5.186	6.021	3.650	73	52.299	53.600	50.880	138	98.844	100.106	97.438
8	5.879	6.782	4.473	74	53.015	54.317	51.609	139	99.560	100.886	98.148
9	6.579	7.533	5.073	75	53.730	55.033	52.313	140	100.276	101.601	98.870
10	7.281	8.276	5.875	76	54.446	55.751	53.040	141	100.992	102.317	99.580
11	7.986	9.014	6.499	77	55.162	56.466	53.745	142	101.708	103.034	100.302
12	8.693	9.747	7.287	78	55.879	57.184	54.473	143	102.425	103.750	101.012
13	9.402	10.478	7.927	79	56.594	57.899	55.177	144	103.140	104.465	101.734
14	10.112	11.207	8.706	80	57.310	58.617	55.904	145	103.857	105.183	102.445
15	10.822	11.934	9.357	81	58.027	59.333	56.610	146	104.573	105.899	103.167
16	11.533	12.661	10.127	82	58.743	60.055	57.337	147	105.289	106.614	103.877
17	12.245	13.385	10.787	83	59.459	60.766	58.042	148	106.005	108.332	104.599
18	12.957	14.110	11.551	84	60.175	61.484	58.769	149	106.721	108.047	105.309
19	13.670	14.834	12.217	85	60.891	62.199	59.474	150	107.438	108.765	106.032
20	14.383	15.557	12.977	86	61.607	62.915	60.201	151	108.154	109.481	106.742
21	15.096	16.279	13.648	87	62.323	63.632	60.907	152	108.870	110.196	107.464
22	15.810	16.999	14.404	88	63.039	63.348	61.633	153	109.586	110.914	108.174
23	16.524	17.721	15.079	89	63.755	65.066	62.339	154	110.302	111.629	108.896
24	17.238	18.441	15.832	90	64.471	65.781	63.065	155	111.018	112.345	109.607
25	17.952	19.161	16.511	91	65.187	66.499	63.771	156	111.734	113.063	110.328
26	18.666	19.881	17.260	92	65.903	67.214	64.497	157	112.451	113.778	111.039
27	19.381	20.601	17.942	93	66.619	67.932	65.203	158	113.167	114.494	111.761
28	20.096	21.319	18.690	94	67.335	68.648	65.929	159	113.883	115.211	112.471
29	20.810	22.039	19.374	95	68.051	69.363	66.636	160	114.599	115.927	113.193
30	21.525	22.757	20.119	96	68.767	70.081	67.361	161	115.315	116.642	113.904
31	22.240	23.477	20.806	97	69.483	70.796	68.068	162	116.031	117.360	114.625
32	22.955	24.194	21.549	98	70.199	71.514	68.793	163	116.747	118.076	115.336
33	23.670	24.914	22.237	99	70.916	72.230	69.500	164	117.464	118.791	116.058
34	24.385	25.632	22.979	100	71.631	72.947	70.225	165	118.180	119.509	116.768
35	25.101	26.350	23.669	101	72.348	73.663	70.933	166	118.896	120.224	117.490
36	25.816	27.068	24.410	102	73.064	74.378	71.658	167	119.612	120.942	118.201
37	26.531	27.785	25.101	103	73.780	75.096	72.365	168	120.328	121.658	118.922
38	27.246	28.503	25.840	104	74.496	75.812	73.090	169	121.044	122.373	119.633
39	27.962	29.221	26.533	105	75.212	76.529	73.798	170	121.760	123.091	120.354
40	28.677	29.939	27.271	106	75.928	77.245	74.522	171	122.477	123.806	121.065
41	29.393	30.656	27.965	107	76.644	77.960	75.230	172	123.193	124.522	121.787
42	30.108	31.374	28.702	108	77.360	78.678	75.954	173	123.909	125.240	122.498
43	30.824	32.092	29.397	109	79.073	79.394	76.662	174	124.625	125.955	123.219
44	31.539	32.810	30.133	110	78.792	80.111	77.386	175	125.341	126.671	123.930
45	32.255	33.527	30.830	111	79.508	80.827	78.095	176	126.057	127.388	124.651
46	32.971	34.243	31.565	112	80.225	81.542	78.819	177	126.774	128.104	125.363
47	33.686	34.961	32.262	113	80.931	82.260	79.527	178	127.490	128.819	126.084
48	34.402	35.678	32.996	114	81.657	82.976	80.251	179	128.206	129.537	126.795
49	35.118	36.396	33.694	115	82.373	83.693	80.959	180	128.922	130.253	127.516
50	35.834	37.114	34.428	116	83.089	84.409	81.683	181	129.638	130.968	128.227
51	36.549	37.829	35.126	117	83.805	85.124	82.392	182	130.354	131.686	128.948
52	37.265	38.547	35.859	118	84.521	85.842	83.115	183	131.071	132.401	129.660
53	37.981	39.265	36.558	119	85.237	86.558	83.824	184	131.787	133.117	130.381
54	38.696	39.980	37.290	120	85.953	87.273	84.547	185	132.503	133.835	131.092
55	39.412	40.698	37.990	121	86.670	87.991	85.256	186	133.219	134.550	131.813
56	40.128	41.416	38.722	122	87.386	88.706	85.980	187	133.935	135.266	132.524
57	40.844	42.131	39.422	123	88.102	89.424	86.689	188	134.651	135.983	133.245
58	41.560	42.849	40.154	124	88.818	90.140	87.412	189	135.367	136.699	133.957
59	42.276	43.567	40.855	125	89.534	90.855	88.121	190	136.084	137.414	134.678
60	42.991	44.282	41.585	126	90.250	91.573	88.844	191	136.800	138.132	135.389
61	43.707	45.000	42.287	127	90.966	92.288	89.553	192	137.516	138.848	136.110
62	44.423	45.716	43.017	128	91.682	93.004	90.276	193	138.232	139.563	136.822
63	45.139	46.433	43.719	129	92.399	93.722	90.986	194	138.948	140.281	137.542
64	45.855	47.151	44.449	130	93.115	94.437	91.709	195	139.664	140.996	138.254
65	46.571	47.867	45.151	131	93.831	95.155	92.418	196	140.381	141.712	138.975
66	47.287	48.584	45.881	132	94.547	95.870	93.141	197	141.097	142.430	139.686
67	48.003	49.300	46.584	133	95.263	96.586	93.850	198	141.813	143.145	140.407
68	48.719	50.018	47.313	134	95.979	97.304	94.573	199	142.529	143.861	141.119
69	49.435	50.733	48.016	135	96.695	98.019	95.283	200	143.245	144.578	141.839
70	50.151	51.451	48.745								

No. 200
2½" Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	4.253	4.940	2.482	71	56.518	57.962	54.942	136	108.235	109.705	106.672
6	5.000	5.830	3.438	72	57.315	58.760	55.752	137	109.030	110.502	107.461
7	5.760	6.690	4.055	73	58.110	59.555	56.533	138	109.827	111.297	108.264
8	6.533	7.535	4.970	74	58.905	60.352	57.342	139	110.622	112.095	109.052
9	7.310	8.370	5.636	75	59.700	61.147	58.125	140	111.418	112.890	109.855
10	8.090	9.195	6.527	76	60.495	61.945	58.932	141	112.212	113.685	110.644
11	8.875	10.015	7.220	77	61.292	62.740	59.716	142	113.010	114.482	111.447
12	9.660	10.830	8.097	78	62.087	63.537	60.524	143	113.805	115.277	112.235
13	10.447	11.642	8.807	79	62.882	64.332	61.307	144	114.600	116.072	113.037
14	11.235	12.452	9.672	80	63.678	65.130	62.115	145	115.395	116.870	113.827
15	12.025	13.260	10.396	81	64.475	65.925	62.899	146	116.192	117.665	114.629
16	12.815	14.068	11.252	82	65.270	66.722	63.707	147	116.988	118.460	115.418
17	13.605	14.872	11.985	83	66.065	67.517	64.490	148	117.783	119.257	116.220
18	14.397	15.678	12.834	84	66.860	68.315	65.297	149	118.580	120.052	117.010
19	15.190	16.478	13.574	85	67.655	69.110	66.082	150	119.375	120.850	117.812
20	15.980	17.285	14.417	86	68.452	69.905	66.889	151	120.170	121.645	118.601
21	16.775	18.088	15.164	87	69.247	70.702	67.673	152	120.965	122.440	119.402
22	17.567	18.888	16.004	88	70.043	71.497	68.480	153	121.762	123.237	120.193
23	18.360	19.690	16.754	89	70.838	72.295	69.265	154	122.558	124.032	120.995
24	19.153	20.490	17.590	90	71.635	73.090	70.072	155	123.354	124.827	121.784
25	19.947	21.290	18.345	91	72.430	73.887	70.856	156	125.150	125.624	122.587
26	20.740	22.090	19.177	92	73.225	74.682	71.662	157	124.945	126.420	123.376
27	21.535	22.890	19.935	93	74.020	75.480	72.448	158	125.740	127.215	124.177
28	22.327	23.688	20.764	94	74.817	76.275	73.254	159	126.537	128.012	124.967
29	23.123	24.488	21.526	95	75.612	77.070	74.039	160	127.332	128.807	125.769
30	23.917	25.285	22.354	96	76.408	77.867	74.845	161	128.127	129.602	126.559
31	24.710	26.085	23.117	97	77.205	78.662	75.631	162	128.923	130.400	127.360
32	25.505	26.882	23.942	98	78.000	79.460	76.437	163	129.720	131.195	128.150
33	26.300	27.682	24.708	99	78.795	80.255	77.222	164	130.515	131.990	128.952
34	27.095	28.480	25.532	100	79.590	81.052	78.027	165	131.310	132.787	129.742
35	27.890	29.280	26.300	101	80.385	81.847	78.814	166	132.107	133.582	130.544
36	28.685	30.075	27.122	102	81.182	82.642	79.619	167	132.903	134.380	131.333
37	29.480	30.872	27.890	103	81.977	83.440	80.405	168	133.697	135.175	132.134
38	30.275	31.670	28.712	104	82.773	84.235	81.210	169	134.495	135.970	132.925
39	31.070	32.468	29.481	105	83.570	85.032	81.997	170	135.290	136.767	133.727
40	31.865	33.265	30.302	106	84.365	85.827	82.802	171	136.085	137.562	134.516
41	32.660	34.062	31.072	107	85.160	86.622	83.588	172	136.880	138.357	135.317
42	33.455	34.860	31.892	108	85.955	87.420	84.392	173	137.677	139.155	136.108
43	34.250	35.658	32.663	109	86.753	88.215	85.180	174	138.472	139.950	136.909
44	35.045	36.455	33.482	110	87.547	89.012	85.984	175	139.268	140.745	137.700
45	35.840	37.252	34.254	111	88.342	89.808	86.771	176	140.065	141.542	138.502
46	36.635	38.047	35.072	112	89.137	90.603	87.574	177	140.860	142.337	139.291
47	37.430	38.845	35.846	113	89.935	91.400	88.363	178	141.655	143.132	140.092
48	38.225	39.642	36.662	114	90.730	92.195	89.167	179	142.450	143.930	140.883
49	39.020	40.440	37.437	115	91.525	92.992	89.954	180	143.247	144.725	141.684
50	39.815	41.238	38.252	116	92.320	93.787	90.757	181	144.042	145.520	142.474
51	40.610	42.032	39.028	117	93.117	94.582	91.546	182	144.838	146.318	143.275
52	41.405	42.830	39.842	118	93.912	95.380	92.349	183	145.635	147.113	144.066
53	42.200	43.627	40.619	119	94.707	96.175	93.137	184	146.430	147.908	144.867
54	42.995	44.422	41.432	120	95.505	96.970	93.942	185	147.225	148.705	145.657
55	43.790	45.220	42.211	121	96.300	97.767	94.729	186	148.020	149.500	146.457
56	44.587	46.018	43.024	122	97.095	98.562	95.532	187	148.817	150.295	147.249
57	45.383	46.812	43.802	123	97.890	99.360	96.320	188	149.612	151.093	148.049
58	46.177	47.610	44.614	124	98.687	100.155	97.124	189	150.408	151.888	148.840
59	46.973	48.408	45.393	125	99.482	100.950	97.912	190	151.205	152.683	149.642
60	47.768	49.202	46.205	126	100.278	101.747	98.715	191	152.000	153.480	150.432
61	48.565	50.000	46.964	127	101.075	102.542	99.503	192	152.795	154.275	151.232
62	49.360	50.795	47.797	128	101.870	103.337	100.307	193	153.590	155.070	152.023
63	50.155	51.593	48.576	129	102.665	104.135	101.095	194	154.387	155.868	152.824
64	50.950	52.390	49.387	130	103.460	104.930	101.897	195	155.183	156.663	153.615
65	51.745	53.185	50.167	131	104.257	105.727	102.686	196	155.977	157.458	154.414
66	52.540	53.982	50.977	132	105.052	106.522	103.489	197	156.775	158.255	155.206
67	53.337	54.777	51.759	133	105.847	107.317	104.278	198	157.570	159.050	156.007
68	54.132	55.575	52.569	134	106.643	108.115	105.080	199	158.365	159.845	156.798
69	54.927	56.370	53.350	135	107.440	108.910	105.869	200	159.162	160.643	157.599
70	55.723	57.167	54.160								

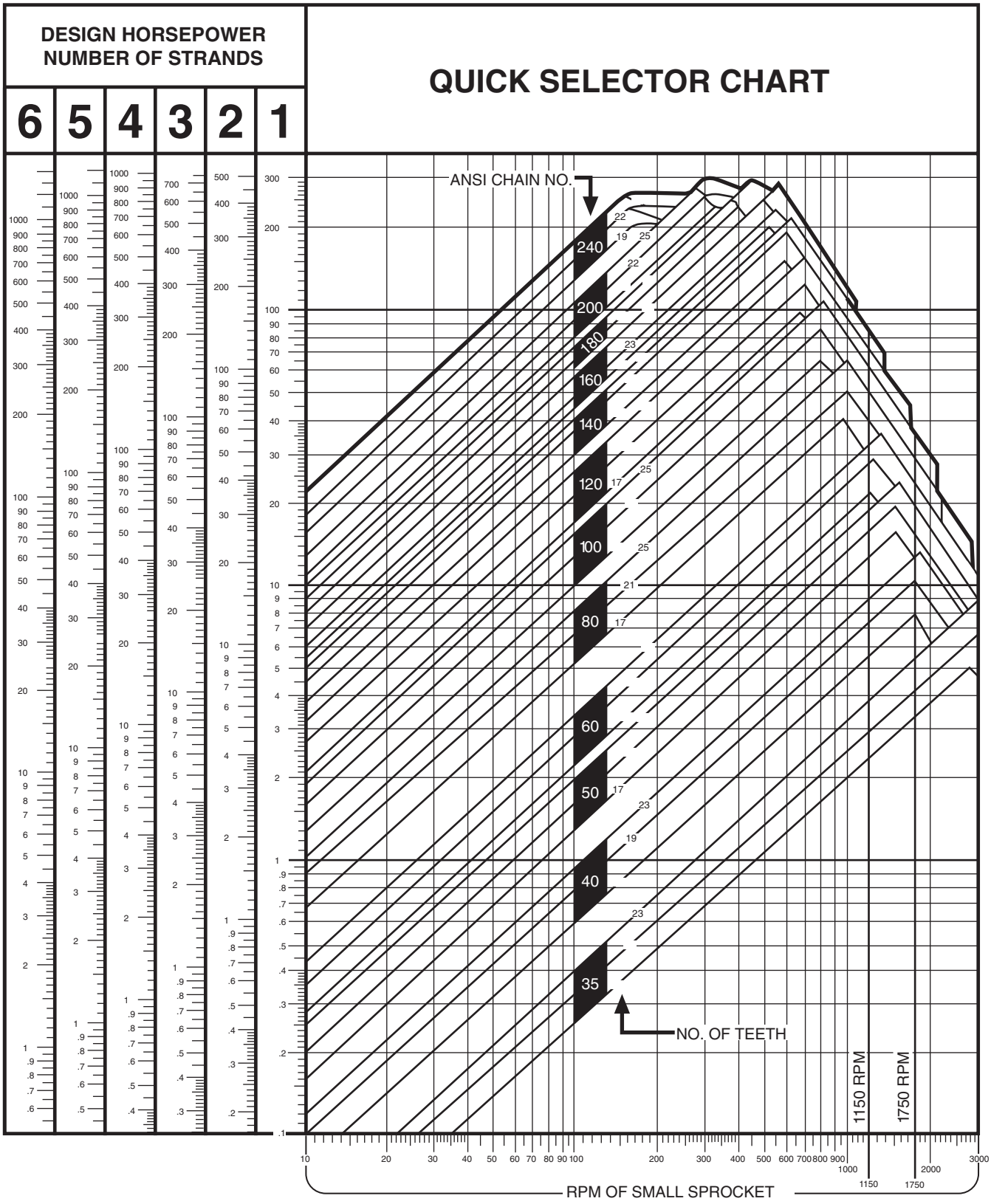
Sprocket Diameters

No. 240 3" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
6	6.000	7.00	4.125	45	43.007	44.70	41.105	83	79.278	81.02	77.388
7	6.914	8.03	4.866	46	43.961	45.66	42.086	84	80.233	81.98	78.358
8	7.839	9.04	5.964	47	44.915	46.61	43.013	85	81.188	82.93	79.298
9	8.771	10.04	6.764	48	45.869	47.57	43.994	86	82.142	83.89	80.267
10	9.708	11.03	7.833	49	46.824	48.53	44.925	87	83.097	84.84	81.207
11	10.649	12.02	8.666	50	47.778	49.49	45.903	88	84.052	85.80	82.177
12	11.591	13.00	9.716	51	48.732	50.44	46.833	89	85.006	86.75	83.116
13	12.536	13.97	10.568	52	49.687	51.40	47.812	90	85.961	87.71	84.086
14	13.482	14.94	11.607	53	50.641	52.35	48.744	91	86.916	88.67	85.026
15	14.429	15.91	12.473	54	51.595	53.31	49.720	92	87.871	89.62	85.996
16	15.377	16.88	13.502	55	52.550	54.26	50.654	93	88.825	90.58	86.938
17	16.327	17.85	14.383	56	53.504	55.22	51.629	94	89.780	91.53	87.905
18	17.276	18.81	15.401	57	54.458	56.18	52.562	95	90.735	92.48	88.848
19	18.227	19.78	16.289	58	55.413	57.13	53.538	96	91.690	93.44	89.815
20	19.177	20.74	17.302	59	56.368	58.09	54.473	97	92.645	94.40	90.758
21	20.129	21.71	18.197	60	57.322	59.04	55.447	98	93.599	95.35	91.724
22	21.080	22.67	19.205	61	58.277	60.00	56.384	99	94.554	96.31	92.667
23	22.032	23.63	20.106	62	59.231	60.95	57.356	100	95.507	97.26	93.634
24	22.984	24.59	21.109	63	60.185	61.91	58.292	101	96.463	98.22	94.676
25	23.936	25.55	22.013	64	61.140	62.87	59.265	102	97.418	99.17	95.543
26	24.889	26.51	23.014	65	62.095	63.82	60.202	103	98.373	100.13	96.486
27	25.841	27.47	23.921	66	63.049	64.78	61.174	104	99.328	101.08	97.453
28	26.794	28.43	24.919	67	64.004	65.73	62.111	105	100.283	102.04	98.396
29	27.747	29.39	25.833	68	64.958	66.69	63.083	106	101.237	102.99	99.362
30	28.700	30.34	26.825	69	65.913	67.64	64.023	107	102.192	103.95	100.305
31	29.654	31.30	27.740	70	66.868	68.60	64.993	108	103.147	104.90	101.272
32	30.607	32.26	28.732	71	67.822	69.56	65.932	109	104.102	105.86	102.215
33	31.560	33.22	29.649	72	68.777	70.51	66.902	110	105.056	106.82	103.181
34	32.514	34.18	30.639	73	69.731	71.45	67.841	111	106.011	107.77	104.124
35	33.467	35.13	31.559	74	70.686	72.42	68.811	112	106.966	108.72	105.091
36	34.421	36.09	32.546	75	71.641	73.38	69.751	113	107.922	109.68	106.035
37	35.375	37.05	33.467	76	72.595	74.33	70.720	114	108.876	110.63	107.001
38	36.329	38.00	34.454	77	73.550	75.29	71.660	115	109.830	111.59	107.943
39	37.283	38.96	35.378	78	74.505	76.25	72.630	116	110.786	112.55	108.911
40	38.237	39.92	36.362	79	75.459	77.20	73.569	117	111.740	113.50	109.820
41	39.191	40.88	37.286	80	76.414	78.16	74.539	118	112.695	114.46	110.810
42	40.145	41.83	38.270	81	77.369	79.11	75.479	119	113.650	115.41	111.750
43	41.099	42.79	39.197	82	78.323	80.07	76.448	120	114.605	116.36	112.730
44	42.053	43.75	40.178								

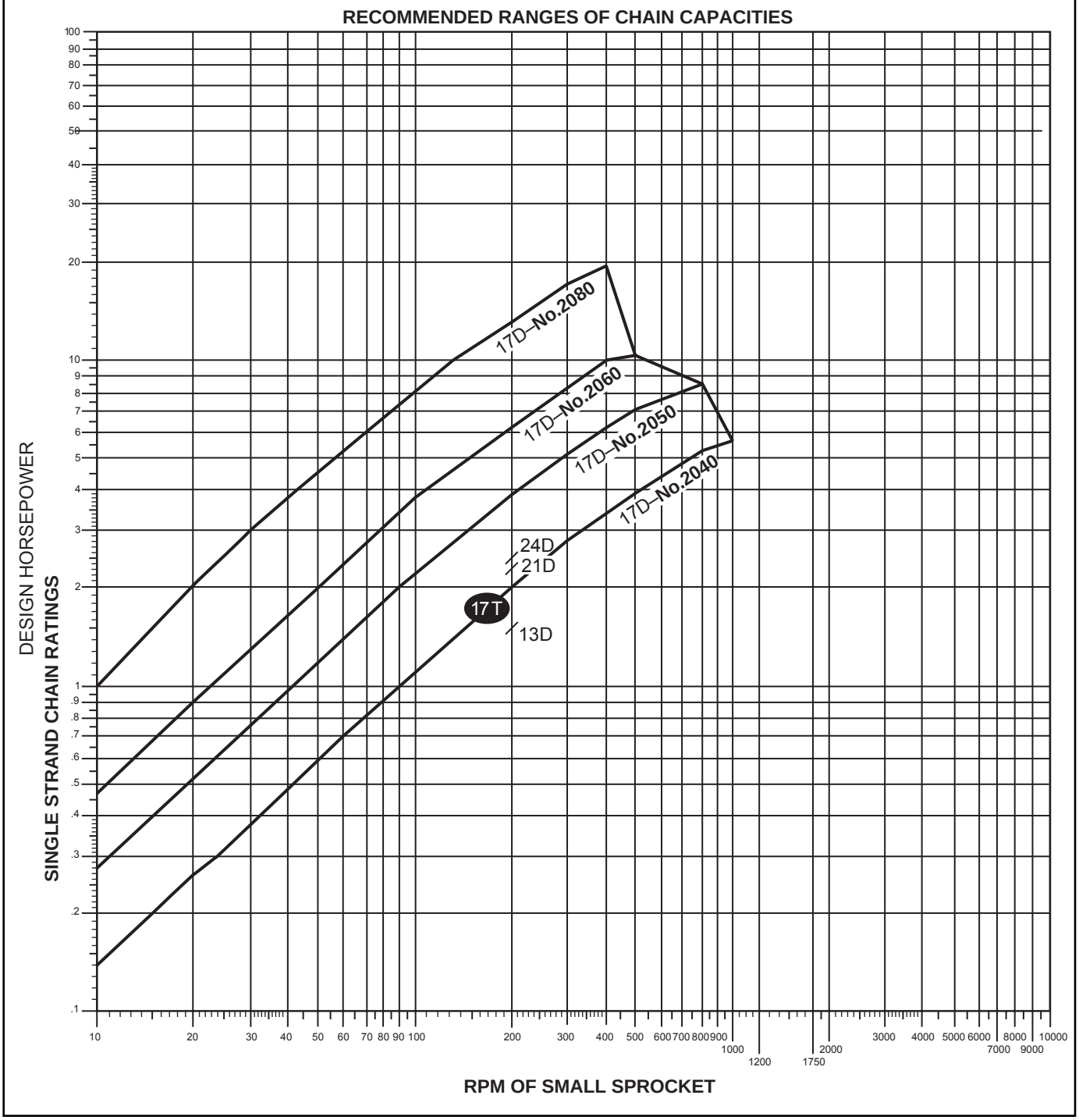
Horsepower Table



DOUBLE PITCH CHAIN

Sloping Lines Represent Horsepower Ratings for Chains with 17 Tooth Sprockets

QUICK SELECTOR CHART



Horsepower Ratings
Single Strand Roller Chain

(For Multiple Strand Ratings See Chart on Page E-187)

¼"Pitch No. 25

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																			
	100	500	900	1200	1800	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10000
11	0.05	0.23	0.39	0.50	0.73	0.98	1.15	1.32	1.38	1.16	0.99	0.86	0.75	0.67	0.60	0.54	0.49	0.45	0.41	0.35
12	0.06	0.25	0.43	0.55	0.80	1.07	1.26	1.45	1.57	1.32	1.12	0.97	0.86	0.76	0.68	0.61	0.56	0.51	0.47	0.40
13	0.06	0.27	0.47	0.60	0.87	1.17	1.38	1.58	1.77	1.49	1.27	1.10	0.96	0.86	0.77	0.69	0.63	0.57	0.53	0.45
14	0.07	0.30	0.50	0.65	0.94	1.27	1.49	1.71	1.93	1.66	1.42	1.23	1.08	0.96	0.86	0.77	0.70	0.64	0.59	0.50
15	0.07	0.32	0.54	0.70	1.01	1.36	1.61	1.85	2.08	1.84	1.57	1.36	1.20	1.06	0.95	0.86	0.78	0.71	0.65	0.56
16	0.08	0.34	0.58	0.76	1.09	1.46	1.72	1.98	2.23	2.03	1.73	1.50	1.32	1.17	1.05	0.94	0.86	0.78	0.72	0.61
17	0.08	0.37	0.62	0.81	1.16	1.56	1.84	2.11	2.38	2.22	1.90	1.64	1.44	1.28	1.14	1.03	0.94	0.86	0.79	0.67
18	0.09	0.39	0.66	0.86	1.24	1.66	1.96	2.25	2.53	2.42	2.07	1.79	1.57	1.39	1.25	1.12	1.02	0.93	0.86	0.73
19	0.09	0.41	0.70	0.91	1.31	1.76	2.07	2.38	2.69	2.62	2.24	1.94	1.70	1.51	1.35	1.22	1.11	1.01	0.93	0.79
20	0.10	0.44	0.74	0.96	1.38	1.86	2.19	2.52	2.84	2.83	2.42	2.10	1.84	1.63	1.46	1.32	1.20	1.09	1.00	0.86
21	0.11	0.46	0.78	1.01	1.46	1.96	2.31	2.66	2.99	3.05	2.60	2.26	1.98	1.76	1.57	1.42	1.29	1.17	1.08	0.92
22	0.11	0.48	0.82	1.07	1.53	2.06	2.43	2.79	3.15	3.27	2.79	2.42	2.12	1.88	1.69	1.52	1.38	1.26	1.16	0.99
23	0.12	0.51	0.86	1.12	1.61	2.16	2.55	2.93	3.30	3.50	2.98	2.59	2.27	2.01	1.80	1.62	1.47	1.35	1.24	1.06
24	0.13	0.53	0.90	1.17	1.69	2.27	2.67	3.07	3.46	3.73	3.18	2.76	2.42	2.15	1.92	1.73	1.57	1.44	1.32	1.12
25	0.13	0.56	0.94	1.22	1.76	2.37	2.79	3.21	3.61	3.96	3.38	2.93	2.57	2.28	2.04	1.84	1.67	1.53	1.40	1.20
26	0.14	0.58	0.98	1.28	1.84	2.47	2.91	3.34	3.77	4.19	3.59	3.11	2.73	2.42	2.17	1.95	1.77	1.62	1.49	1.27
28	0.15	0.63	1.07	1.38	1.99	2.68	3.15	3.62	4.09	4.54	4.01	3.47	3.05	2.70	2.42	2.18	1.98	1.81	1.66	1.42
30	0.16	0.68	1.15	1.49	2.15	2.88	3.40	3.90	4.40	4.89	4.45	3.85	3.38	3.00	2.68	2.42	2.20	2.01	1.84	1.57
32	0.17	0.73	1.23	1.60	2.30	3.09	3.64	4.18	4.72	5.25	4.90	4.25	3.73	3.30	2.96	2.67	2.42	2.21	2.03	1.73
35	0.19	0.80	1.36	1.76	2.53	3.41	4.01	4.61	5.20	5.78	5.60	4.86	4.26	3.78	3.38	3.05	2.77	2.53	2.32	1.98
40	0.22	0.92	1.57	2.03	2.93	3.93	4.64	5.32	6.00	6.68	6.85	5.93	5.21	4.62	4.13	3.73	3.38	3.09	2.83	2.42
45	0.25	1.05	1.78	2.31	3.32	4.47	5.26	6.05	6.82	7.58	8.17	7.08	6.21	5.51	4.93	4.45	4.04	3.69	3.38	2.89
Lubrication	Type A		Type B						Type C											

⅜" Pitch No. 35

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																			
	100	500	900	1200	1800	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10000
11	0.18	0.77	1.31	1.70	2.45	3.30	2.94	2.33	1.91	1.60	1.37	1.18	1.04	0.92	0.82	0.74	0.67	0.62	0.57	0.48
12	0.20	0.85	1.44	1.87	2.70	3.62	3.35	2.66	2.17	1.82	1.56	1.35	1.18	1.05	0.94	0.85	0.77	0.70	0.64	0.55
13	0.22	0.93	1.57	2.04	2.94	3.95	3.77	3.00	2.45	2.05	1.75	1.52	1.33	1.18	1.06	0.95	0.87	0.79	0.73	0.62
14	0.24	1.01	1.71	2.21	3.18	4.28	4.22	3.35	2.74	2.30	1.96	1.70	1.49	1.32	1.18	1.07	0.97	0.88	0.81	0.69
15	0.25	1.08	1.84	2.38	3.43	4.61	4.68	3.71	3.04	2.55	2.17	1.88	1.65	1.47	1.31	1.18	1.07	0.98	0.90	0.77
16	0.27	1.16	1.97	2.55	3.68	4.94	5.15	4.09	3.35	2.81	2.40	2.08	1.82	1.62	1.45	1.30	1.18	1.08	0.99	0.85
17	0.29	1.24	2.10	2.73	3.93	5.28	5.64	4.48	3.67	3.07	2.62	2.27	2.00	1.77	1.58	1.43	1.30	1.18	1.09	0.93
18	0.31	1.32	2.24	2.90	4.18	5.61	6.15	4.88	3.99	2.35	2.86	2.48	2.17	1.93	1.73	1.56	1.41	1.29	1.18	1.01
19	0.33	1.40	2.37	3.07	4.43	5.95	6.67	5.29	4.33	3.63	3.10	2.69	2.36	2.09	1.87	1.69	1.53	1.40	1.28	1.10
20	0.35	1.48	2.51	3.25	4.68	6.29	7.20	5.72	4.68	3.92	3.35	2.90	2.55	2.26	2.02	1.82	1.65	1.51	1.39	1.18
21	0.37	1.56	2.64	3.42	4.93	6.63	7.75	6.15	5.03	4.22	3.60	3.12	2.74	2.43	2.17	1.96	1.78	1.62	1.49	1.27
22	0.38	1.64	2.78	3.60	5.19	6.97	8.21	6.59	5.40	4.52	3.86	3.35	2.94	2.61	2.33	2.10	1.91	1.74	1.60	1.37
23	0.40	1.72	2.92	3.78	5.44	7.31	8.62	7.05	5.77	4.83	4.13	3.58	3.14	2.79	2.49	2.25	2.04	1.86	1.71	1.46
24	0.42	1.80	3.05	3.96	5.70	7.66	9.02	7.51	6.15	5.15	4.40	3.81	3.35	2.97	2.66	2.40	2.17	1.99	1.82	1.56
25	0.44	1.88	3.19	4.13	5.95	8.00	9.43	7.99	6.54	5.48	4.68	4.05	3.56	3.16	2.82	2.55	2.31	2.11	1.94	1.65
26	0.46	1.96	3.33	4.31	6.21	8.35	9.84	8.47	6.93	5.18	4.96	4.30	3.77	3.35	3.00	2.70	2.45	2.24	2.05	1.75
28	0.50	2.12	3.61	4.67	6.73	9.05	10.7	9.47	7.75	6.49	5.55	4.81	4.22	3.74	3.35	3.02	2.74	2.50	2.30	1.96
30	0.54	2.29	3.89	5.03	7.25	9.74	11.5	10.5	8.59	7.20	6.15	5.33	4.68	4.15	3.71	3.35	3.04	2.77	2.55	2.17
32	0.58	2.45	4.17	5.40	7.77	10.4	12.3	11.6	9.47	7.93	6.77	5.87	5.15	4.57	4.09	3.69	3.35	3.06	2.81	...
35	0.64	2.70	4.59	5.95	8.56	11.5	13.6	13.2	10.8	9.08	7.75	6.72	5.90	5.23	4.68	4.22	3.83	3.50	3.21	...
40	0.73	3.12	5.30	6.87	9.89	13.3	15.7	16.2	13.2	11.1	9.47	8.21	7.20	6.39	5.72	5.15	4.68	...	...	...
45	0.83	3.55	6.02	7.80	11.2	15.1	17.8	19.3	15.8	13.2	11.3	9.79	8.59	7.62	6.82	...	...	...	...	...
Lubrication	Type A		Type B						Type C											

½" Pitch No. 41

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	50	100	200	400	500	700	900	1200	1800	2400	3000	3500	4000	5000	6000	7000	8000
11	0.13	0.24	0.44	0.82	1.01	1.37	1.71	1.71	0.93	0.61	0.43	0.34	0.28	0.20	0.15	0.12	0.10
12	0.14	0.26	1.49	0.91	1.11	1.50	1.88	1.95	1.06	0.69	0.49	0.39	0.32	0.23	0.17	0.14	0.11
13	0.15	0.28	0.53	0.99	1.21	1.63	2.05	2.20	1.20	0.78	0.56	0.44	0.36	0.26	0.20	0.16	0.13
14	0.16	0.31	0.57	1.07	1.31	1.77	2.22	2.46	1.34	0.87	0.62	0.49	0.40	0.29	0.22	0.17	0.14
15	0.18	0.33	0.62	1.15	1.41	1.91	2.39	2.73	1.49	0.96	0.69	0.55	0.45	0.32	0.24	0.19	0.16
16	0.19	0.36	0.66	1.24	1.51	2.05	2.57	3.01	1.64	1.06	0.76	0.60	0.49	0.35	0.27	0.21	0.17
17	0.20	0.38	0.71	1.32	1.61	2.18	2.74	3.29	1.79	1.16	0.83	0.66	0.54	0.39	0.29	0.23	0.19
18	0.22	0.40	0.75	1.40	1.72	2.32	2.91	3.59	1.95	1.27	0.91	0.72	0.59	0.42	0.32	0.25	...
19	0.23	0.43	0.80	1.49	1.82	2.46	3.09	3.89	2.12	1.38	0.98	0.78	0.64	0.46	0.35	0.28	...
20	0.24	0.45	0.84	1.57	1.92	2.60	3.26	4.20	2.29	1.49	1.06	0.84	0.69	0.49	0.38	0.30	...
21	0.26	0.48	0.89	1.66	2.03	2.74	3.44	4.46	2.46	1.60	1.14	0.91	0.74	0.53	0.40	0.32	...
22	0.27	0.50	0.93	1.74	2.13	2.89	3.62	4.69	2.64	1.71	1.23	0.97	0.80	0.57	0.43	0.34	...
23	0.28	0.53	0.98	1.83	2.24	3.03	3.80	4.92	2.82	1.83	1.31	1.04	0.85	0.61	0.46	0.37	...
24	0.29	0.55	1.03	1.92	2.34	3.17	3.97	5.15	3.01	1.95	1.40	1.11	0.91	0.65	0.49	0.39	...
25	0.31	0.57	1.07	2.00	2.45	3.31	4.15	5.38	3.20	2.08	1.49	1.18	0.96	0.69	0.53	...	...
26	0.32	0.60	1.12	2.09	2.55	3.46	4.33	5.61	3.39	2.20	1.58	1.25	1.02	0.73	0.56	...	...
28	0.35	0.65	1.21	2.26	2.77	3.74	4.69	6.08	3.79	2.46	1.76	1.40	1.14	0.82	0.62	...	...
30	0.38	0.70	1.31	2.44	2.98	4.03	5.06	6.55	4.20	2.73	1.95	1.55	1.27	0.91	0.69	...	...
32	0.40	0.75	1.40	2.61	3.20	4.33	5.42	7.03	4.63	3.01	2.15	1.71	1.40	1.00	...	...	...
35	0.44	0.83	1.54	2.88	3.52	4.76	5.97	7.74	5.29	3.44	2.46	1.95	1.60	1.14	...	...	...
40	0.51	0.96	1.78	3.33	4.07	5.50	6.90	8.94	6.47	4.20	3.01	2.39	1.95	1.40	...	...	...
45	0.58	1.08	2.02	3.78	4.62	6.25	7.84	10.2	7.72	5.01	3.59	2.85	2.33	...	...	...	...
Lubrication	Type A		Type B						Type C								

Horsepower Ratings
Single Strand Roller Chain

For Multiple Strand Ratings See Chart at Bottom

½" Pitch No. 40

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	50	100	200	400	500	700	900	1200	1800	2400	3000	3500	4000	5000	6000	7000	8000
11	0.23	0.43	0.80	1.50	1.83	2.48	3.11	4.63	4.66	3.03	2.17	1.72	1.41	1.01	0.77	0.61	0.50
12	0.25	0.47	0.88	1.65	2.01	2.73	3.42	5.09	5.31	3.45	2.47	1.96	1.60	1.15	0.87	0.69	0.57
13	0.28	0.52	0.96	1.80	2.20	2.97	3.73	5.55	5.99	3.89	2.79	2.21	1.81	1.29	0.98	0.78	0.64
14	0.30	0.56	1.04	1.95	2.38	3.22	4.04	6.01	6.70	4.35	3.11	2.47	2.02	1.45	1.10	0.87	0.71
15	0.32	0.60	1.12	2.10	2.56	3.47	4.35	6.47	7.43	4.82	3.45	2.74	2.24	1.60	1.22	0.97	0.79
16	0.35	0.65	1.20	2.25	2.75	3.72	4.66	6.94	8.18	5.31	3.80	3.02	2.47	1.77	1.34	1.07	0.87
17	0.37	0.69	1.29	2.40	2.93	3.97	4.98	7.41	8.96	5.82	4.17	3.31	2.71	1.94	1.47	1.17	0.96
18	0.39	0.73	1.37	2.55	3.12	4.22	5.30	7.88	9.76	6.34	4.54	3.60	2.95	2.11	1.60	1.27	...
19	0.42	0.78	1.45	2.71	3.31	4.48	5.62	8.36	10.5	6.88	4.92	3.91	3.20	2.29	1.74	1.38	...
20	0.44	0.82	1.53	2.86	3.50	4.73	5.94	8.83	11.1	7.43	5.31	4.22	3.45	2.47	1.88	1.49	...
21	0.46	0.87	1.62	3.02	3.69	4.99	6.26	9.31	11.7	7.99	5.72	4.54	3.71	2.66	2.02	1.60	...
22	0.49	0.91	1.70	3.17	3.88	5.25	6.58	9.79	12.3	8.57	6.13	4.87	3.98	2.85	2.17	1.72	...
23	0.51	0.96	1.78	3.33	4.07	5.51	6.90	10.3	12.9	9.16	6.55	5.20	4.26	3.05	2.32	1.84	...
24	0.54	1.00	1.87	3.48	4.26	5.76	7.23	10.8	13.5	9.76	6.99	5.54	4.54	3.25	2.47	1.96	...
25	0.56	1.05	1.95	3.64	4.45	6.02	7.55	11.2	14.1	10.4	7.43	5.89	4.82	3.45	2.63	...	...
26	0.58	1.09	2.04	3.80	4.64	6.28	7.88	11.7	14.7	11.0	7.88	6.25	5.12	3.66	2.79	...	...
28	0.63	1.18	2.20	4.11	5.03	6.81	8.54	12.7	15.9	12.3	8.80	6.99	5.72	4.09	3.11	...	...
30	0.68	1.27	2.38	4.43	5.42	7.33	9.20	13.7	17.2	13.6	9.76	7.75	6.34	4.54	3.45	...	...
32	0.73	1.36	2.55	4.75	5.81	7.86	9.86	14.7	18.4	15.0	10.8	8.64	6.99	5.00	...	...	...
35	0.81	1.50	2.81	5.24	6.40	8.66	10.9	16.2	20.3	17.2	12.3	9.76	7.99	5.76	...	...	...
40	0.93	1.74	3.24	6.05	7.39	10.0	12.5	18.7	23.4	21.0	15.0	11.9	9.76	6.99	...	...	...
45	1.06	1.97	3.68	6.87	8.40	11.4	14.2	21.2	26.6	25.1	17.9	14.2	11.7	...	...	...	...
Lubrication	Type A		Type B					Type C									

⅝" Pitch No. 50

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																	
	50	100	300	500	900	1200	1400	1800	2100	2400	2700	3000	3500	4000	4500	5000	5500	6000
11	0.45	0.84	2.25	3.57	6.06	7.85	8.13	5.58	4.42	3.62	3.04	2.59	2.06	1.68	1.41	1.20	1.04	0.92
12	0.49	0.92	2.47	3.92	6.65	8.62	9.26	6.35	5.04	4.13	3.46	2.95	2.34	1.92	1.61	1.37	1.19	1.04
13	0.54	1.00	2.70	4.27	7.25	9.40	10.4	7.16	5.69	4.65	3.90	3.33	2.64	3.16	1.81	1.55	1.34	...
14	0.58	1.09	2.92	4.63	7.86	10.2	11.7	8.01	6.35	5.20	4.36	3.72	2.95	2.42	2.03	1.73	1.50	...
15	0.73	1.17	3.15	4.99	8.47	11.0	12.6	8.88	7.05	5.77	4.83	4.13	3.27	2.68	2.25	1.92	1.66	...
16	0.67	1.26	3.38	5.35	9.08	11.8	13.5	9.78	7.76	6.35	5.32	4.55	3.61	2.95	2.47	2.11	1.83	...
17	0.72	1.34	3.61	5.71	9.69	12.6	14.4	10.7	8.50	6.96	5.83	4.98	3.95	3.23	2.71	2.31	2.01	...
18	0.76	1.43	3.83	6.07	10.3	13.4	15.3	11.7	9.26	7.58	6.35	5.42	4.30	3.52	2.95	2.52	...	...
19	0.81	1.51	4.07	6.44	10.9	14.2	16.3	12.7	10.0	8.22	6.89	5.88	4.67	3.82	3.20	2.73	...	...
20	0.86	1.60	4.30	6.80	11.5	15.0	17.2	13.7	10.8	8.88	7.44	6.35	5.04	4.13	3.46	2.95	...	...
21	0.90	1.69	4.53	7.17	12.2	15.8	18.1	14.7	11.7	9.55	8.01	6.84	5.42	4.44	3.72	3.18	...	...
22	0.95	1.77	4.76	7.54	12.8	16.6	19.1	15.8	12.5	10.2	8.59	7.39	5.82	4.76	3.99	3.41	...	...
23	1.00	1.86	5.00	7.91	13.4	17.4	20.0	16.9	13.4	11.0	9.18	7.84	6.22	5.09	4.27	...	...	...
24	1.04	1.95	5.23	8.29	14.1	18.2	20.9	18.0	14.3	11.7	9.78	8.35	6.33	5.42	4.55	...	...	...
25	1.09	2.03	5.47	8.66	14.7	19.0	21.9	19.1	15.2	12.4	10.4	8.88	7.05	5.77	4.83	...	...	...
26	1.14	2.12	5.70	9.03	15.3	19.9	22.8	20.3	16.1	13.2	11.0	9.42	7.47	6.12	5.13	...	...	...
28	1.23	2.30	6.18	9.79	16.6	21.5	24.7	22.6	18.0	14.7	12.3	10.5	8.35	6.84	5.73	...	...	...
30	1.33	2.49	6.66	10.5	17.9	23.2	26.6	25.1	19.9	16.3	13.7	11.7	9.26	7.58	...	...	...	...
32	1.42	2.66	7.14	11.3	19.2	24.9	28.6	27.7	22.0	18.0	15.1	12.9	10.2	8.35	...	...	...	...
35	1.57	2.93	7.86	12.5	21.1	27.4	31.5	31.6	25.1	20.6	17.2	14.7	11.7	9.55	...	...	...	...
40	1.81	3.38	9.08	14.4	24.4	31.6	36.3	38.7	30.7	25.1	21.0	18.0	14.3	...	...	...	...	...
45	2.06	3.84	10.3	16.3	27.7	35.9	41.3	46.1	36.6	30.0	25.1	21.4	...	...	...	...	...	...
Lubrication	Type A		Type B		Type C													

Type A Manual Lubrication
Type B Bath or Disc Lubrication
Type C Oil Stream Lubrication

Multiple Strand Factors

No. Strands	Strand Factor
1	1.0
2	1.9
3	2.8
4	3.7

Horsepower Ratings
Single Strand Roller Chain

For Multiple Strand Ratings See Chart Page E-189

¾" Pitch No. 60

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET															
	50	100	200	500	700	900	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500
11	0.77	1.44	2.69	6.13	8.30	10.4	11.9	9.41	7.70	6.45	5.51	3.94	3.00	2.38	1.95	1.63
12	0.85	1.58	2.95	6.74	9.12	11.4	13.5	10.7	8.77	7.35	6.28	4.49	3.42	2.71	2.22	1.86
13	0.92	1.73	3.22	7.34	9.94	12.5	15.2	12.1	9.89	8.29	7.08	5.06	3.85	3.06	2.50	...
14	1.00	1.87	3.49	7.96	10.8	13.5	17.0	13.5	11.1	9.26	7.91	5.66	4.31	3.42	2.80	...
15	1.08	2.01	3.76	8.57	11.6	14.5	18.8	15.0	12.3	10.3	8.77	6.28	4.77	3.79	3.10	...
16	1.16	2.16	4.03	9.19	12.4	15.6	20.2	16.5	13.5	11.3	9.66	9.61	5.26	4.17	3.42	...
17	1.24	2.31	4.30	9.81	13.3	16.7	21.6	18.1	14.8	12.4	10.6	7.57	5.76	4.57	3.74	...
18	1.31	2.45	4.58	10.4	14.1	17.7	22.9	19.7	16.1	13.5	11.5	8.25	6.28	4.98	4.08	...
19	1.39	2.60	4.85	11.1	15.0	18.8	24.3	21.4	17.5	14.6	12.5	8.95	6.81	5.40	4.42	...
20	1.47	2.75	5.13	11.7	15.8	19.8	25.7	23.1	18.9	15.8	13.5	9.66	7.35	5.83	...	...
21	1.55	2.90	5.40	12.3	16.7	20.9	27.1	24.8	20.3	17.0	14.5	10.4	7.91	6.28	...	...
22	1.63	3.05	5.68	13.0	17.5	22.0	28.5	26.6	21.8	18.2	15.6	11.1	8.48	6.73	...	...
23	1.71	3.19	5.96	13.6	18.4	23.1	29.9	28.4	23.3	19.5	16.7	11.9	9.07	7.19	...	...
24	1.79	3.35	6.24	14.2	19.3	24.1	31.3	30.3	24.8	20.8	17.8	12.7	9.66	7.67	...	...
25	1.87	3.50	6.52	14.9	20.1	25.3	32.7	32.2	26.4	22.1	18.9	13.5	10.3	8.15	...	...
26	1.95	3.65	6.81	15.5	21.0	26.4	34.1	34.2	28.0	23.4	20.0	14.3	10.9	8.65	...	...
28	2.12	3.95	7.37	16.8	22.8	28.5	37.0	38.2	31.3	26.2	22.4	16.0	12.2	...	...	...
30	2.28	4.26	7.94	18.1	24.5	30.8	39.8	42.4	34.7	29.1	24.8	17.8	13.5	...	...	...
32	2.45	4.56	8.52	19.4	26.3	33.0	42.7	46.7	38.2	32.0	27.3	19.6	14.9	...	...	...
35	2.69	5.03	9.38	21.4	29.0	36.3	47.1	53.4	43.7	36.6	31.3	22.4	17.0	...	...	...
40	3.11	5.81	10.8	23.7	33.5	42.0	54.4	62.5	53.4	44.7	38.2	27.3	...	...	...	...
45	3.53	6.60	12.3	28.1	38.0	47.7	61.7	70.9	63.7	53.4	45.6	32.6	...	...	...	...
Lubrication	Type A	Type B			Type C											

1" Pitch No. 80

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																			
	25	50	100	200	300	400	500	700	900	1000	1200	1400	1600	1800	2000	2200	2400	2700	3000	3400
11	0.97	1.80	3.36	6.28	9.04	11.7	14.3	19.4	23.0	19.6	14.9	11.8	9.69	8.12	6.93	6.01	5.27	4.42	3.77	1.70
12	1.06	1.98	3.69	6.89	9.93	12.9	15.7	21.3	26.2	22.3	17.0	13.5	11.0	9.25	7.90	6.85	6.01	5.04	4.30	...
13	1.16	2.16	4.03	7.52	10.8	14.0	17.1	23.2	29.1	25.2	19.2	15.2	12.5	10.4	8.91	7.72	6.78	5.68	4.85	...
14	1.25	2.34	4.36	8.14	11.7	15.2	18.6	25.1	31.5	28.2	21.4	17.0	13.9	11.7	9.96	6.83	7.57	6.35	5.42	...
15	1.35	2.52	4.70	8.77	12.6	16.4	20.0	27.1	34.0	31.2	23.8	18.9	15.4	12.9	11.0	9.57	8.40	7.04	6.01	...
16	1.45	2.70	5.04	9.41	13.5	17.6	21.5	29.0	36.4	34.4	26.2	20.8	17.0	14.2	12.2	10.5	9.25	7.76	6.62	...
17	1.55	2.88	5.38	10.0	14.5	18.7	22.9	31.0	38.9	37.7	28.7	22.7	18.6	15.6	13.3	11.5	10.1	8.49	7.25	...
18	1.64	3.07	5.72	10.7	15.4	19.9	24.4	33.0	41.4	41.1	31.2	24.8	20.3	17.0	14.5	12.6	11.0	9.25	7.90	...
19	1.74	3.25	6.07	11.3	16.3	21.1	25.8	35.0	43.8	44.5	33.9	26.9	22.0	18.4	15.7	13.6	12.0	10.0	8.57	...
20	1.84	3.44	6.41	12.0	17.2	22.3	27.3	37.0	46.3	48.1	36.6	29.0	23.8	19.9	17.0	14.7	12.9	10.8	...	...
21	1.94	3.62	6.76	12.6	18.2	23.5	28.8	39.0	48.9	51.7	39.4	31.2	25.6	21.4	18.3	15.9	13.9	11.7	...	...
22	2.04	3.81	7.11	13.3	19.1	24.8	30.3	41.0	51.4	55.5	42.2	33.5	27.4	23.0	19.6	17.0	14.9	12.5	...	...
23	2.14	4.00	7.46	13.9	20.1	26.0	31.8	43.0	53.9	59.3	45.1	35.8	29.3	24.6	21.0	18.2	15.9	13.4	...	...
24	2.24	4.19	7.81	14.6	21.0	27.2	33.2	45.0	56.4	62.0	48.1	38.2	31.2	26.2	22.3	19.4	17.0	14.2	...	...
25	2.34	4.37	8.16	15.2	21.9	28.4	34.7	47.0	59.0	64.8	51.1	40.6	33.2	27.8	23.8	20.6	18.1	15.1	...	...
26	2.45	4.56	8.52	15.9	22.9	29.7	36.2	49.1	61.5	67.6	54.2	43.0	35.2	29.5	25.2	21.8	19.2	16.1	...	...
28	2.65	4.94	9.23	17.2	24.8	32.1	39.3	53.2	66.7	73.3	60.6	48.1	39.4	33.0	28.2	24.4	21.4	...	...	...
30	2.85	5.33	9.94	18.5	26.7	34.6	42.3	57.3	71.8	78.9	67.2	53.3	43.6	36.6	31.2	27.1	23.8	...	...	...
32	3.06	5.71	10.7	19.9	28.6	37.1	45.4	61.4	77.0	84.6	74.0	58.7	48.1	40.3	34.4	29.8	26.2	...	...	...
35	3.37	6.29	11.7	21.9	31.6	40.9	50.0	67.6	84.8	93.3	84.7	67.2	55.0	46.1	39.4	34.1	...	...	...	...
40	3.89	7.27	13.6	25.3	36.4	47.2	57.7	78.1	98.0	108	103	82.1	67.2	56.3	48.1	20.0	...	...	...	...
45	4.42	8.25	15.4	28.7	41.4	53.6	65.6	88.7	111	122	123	98.0	80.2	67.2	54.1	...	...	...	...	...
Lubrication	Type A	Type B					Type C													

1¼" Pitch No. 100

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																						
	10	25	50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2400	2600
11	0.81	1.85	3.45	6.44	12.0	17.3	22.4	27.4	32.3	37.1	32.8	27.5	23.4	20.3	17.8	15.8	14.2	11.6	9.71	8.29	7.19	6.31	1.29
12	0.89	2.03	3.79	7.08	13.2	19.0	24.6	30.1	35.5	40.8	37.3	31.3	26.7	23.2	20.3	18.0	16.1	13.2	11.1	9.45	8.19	7.19	...
13	0.97	2.22	4.13	7.72	14.4	20.7	26.9	32.8	38.7	44.5	42.1	35.3	30.1	26.1	22.9	20.3	18.2	14.9	12.5	10.6	9.23	8.10	...
14	1.05	2.40	4.48	8.36	15.6	22.5	29.1	35.6	41.9	48.2	47.0	39.4	33.7	29.2	25.6	22.7	20.3	16.6	13.9	11.9	10.3	9.06	...
15	1.13	2.59	4.83	9.01	16.8	24.2	31.4	38.3	45.2	51.9	52.2	43.7	37.3	32.4	28.4	25.2	22.5	18.4	15.5	13.2	11.4	10.0	...
16	1.22	2.77	5.17	9.66	18.0	26.0	33.6	41.1	48.4	55.6	57.5	48.2	41.1	35.7	31.3	27.7	24.8	20.3	17.0	14.5	12.8	11.1	...
17	1.30	2.96	5.52	10.3	19.2	27.7	35.9	43.9	51.7	59.4	63.0	52.8	45.0	39.0	34.3	30.4	27.2	22.3	18.7	15.9	13.8	0.79	...
18	1.38	3.15	5.88	11.0	20.5	29.5	38.2	46.7	55.0	63.2	68.6	57.5	49.1	42.5	37.3	33.1	29.6	24.2	20.3	17.4	15.0	...	...
19	1.46	3.34	6.23	11.6	21.7	31.2	40.5	49.5	58.3	67.0	74.4	62.3	53.2	46.1	40.5	35.9	32.1	26.3	22.0	18.8	16.3	...	...
20	1.55	3.53	6.58	12.3	22.9	33.0	42.8	52.3	61.6	70.8	79.8	67.3	57.5	49.8	43.7	38.8	34.7	28.4	23.8	20.3	17.6	...	...
21	1.63	3.72	6.94	13.0	24.2	34.8	45.1	55.1	65.0	74.6	84.2	72.4	61.8	53.6	47.0	41.7	37.3	30.6	25.6	21.9	19.0	...	...
22	1.71	3.91	7.30	13.6	25.4	36.6	47.4	58.0	68.3	78.5	88.5	77.7	66.3	57.5	50.4	44.7	40.0	32.8	27.5	23.4	20.3	...	...
23	1.80	4.10	7.66	14.3	26.7	38.4	49.8	60.8	71.7	82.3	92.8	83.0	70.9	61.4	53.9	47.8	42.8	35.0	29.4	25.1	7.74	...	...
24	1.88	4.30	8.02	15.0	27.9	40.2	52.1	63.7	75.0	86.2	97.2	88.5	75.6	65.5	57.5	51.0	45.6	37.3	31.3	26.7	...	...	...
25	1.97	4.49	8.38	15.6	29.2	42.0	54.4	66.6	78.4	90.1	102	94.1	80.3	69.6	61.1	54.2	48.5	39.7	33.3	28.4	...	...	...
26	2.05	4.68	8.74	16.3	30.4	43.8	56.8	69.4	81.8	94.0	106	99.8	85.2	73.8	64.8	57.5	51.4	42.1	35.3	30.1	...	...	...
28	2.22	5.07	9.47	17.7	33.0	47.5	61.5	75.2	88.6	102	115	112	95.2	82.5	72.4	64.2	57.5	47.0	39.4	33.7	...	...	...
30	2.40	5.47	10.2	19.0	35.5	51.2	66.3	81.0	95.5	110	124	124	106	91.5	80.3	7.12	63.7	52.2	43.7	10.0	...	...	...
32	2.57	5.86	10.9	20.4	38.1	54.9	71.1	86.9	102	118	133	136	116	101	88.5	78.5	70.2	57.5	48.2	...	...	...	...
35	2.83	6.46	12.0	22.5	42.0	60.4	78.3	95.7	113	130	146	156	133	115	101	89.8	80.3	65.8	55.1	...	...	...	...
40	3.27	7.46	13.9	26.0	48.5	69.8	90.4	111	130	150	169	188	163	141	124	110	98.1	80.3	...	...	...	...	...
45	3.71	8.47	15.8	29.5	55.0	79.3	103	126	148	170	192	213	194	168	148	131	117	45.3	...	...	...	...	...
Lubrication	Type A	Type B			Type C																		

Horsepower Ratings
Single Strand Roller Chain

For Multiple Strand Ratings See Chart at Bottom

1½" Pitch No. 120

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
11	1.37	3.12	5.83	10.9	15.7	20.3	29.2	37.9	46.3	54.6	46.3	37.9	31.8	27.1	23.5	20.6	18.3	16.4	13.8	14.4	12.2	11.2	10.4	9.59	...
12	1.50	3.43	6.40	11.9	17.2	22.3	32.1	41.6	50.9	59.9	52.8	43.2	36.2	30.9	26.8	23.5	20.9	18.7	16.8	15.3	13.9	12.8	11.8	10.9	...
13	1.64	3.74	6.98	13.0	18.8	24.3	35.0	45.4	55.5	65.3	59.5	48.7	40.8	34.9	30.2	26.5	23.5	21.0	19.0	17.2	15.7	14.4	13.3	12.3	...
14	1.78	4.05	7.56	14.1	20.3	26.3	37.9	49.1	60.1	70.8	66.5	54.4	45.6	39.0	33.8	29.6	26.3	23.5	21.2	19.2	17.6	16.1	14.9	8.94	...
15	1.91	4.37	8.15	15.2	21.9	28.4	40.9	53.0	64.7	76.3	73.8	60.4	50.6	43.2	37.4	32.9	29.1	26.1	23.5	21.3	19.5	17.0	16.5	...	...
16	2.05	4.68	8.74	16.3	23.5	30.4	43.8	56.8	69.4	81.8	81.3	66.5	55.7	47.6	41.2	36.2	32.1	28.7	25.9	23.5	21.5	19.7	18.2	...	...
17	2.19	5.00	9.33	17.4	25.1	32.5	46.8	60.6	74.1	87.3	89.0	72.8	61.0	52.1	45.2	39.6	35.2	31.5	28.4	25.8	23.5	21.6	19.9	...	...
18	2.33	5.32	9.92	18.5	26.7	34.6	49.8	64.5	78.8	92.9	97.0	79.4	66.5	56.8	49.2	43.2	38.3	34.3	30.9	28.1	25.6	23.5	11.3	...	...
19	2.47	5.64	10.5	19.6	28.3	36.6	52.8	68.4	83.6	98.5	105	86.1	72.1	61.6	53.4	46.8	41.5	37.2	33.5	30.4	27.8	25.5	...	...	...
20	2.61	5.96	11.1	20.7	29.9	38.7	55.8	72.2	88.3	104	114	92.9	77.9	66.5	57.6	50.6	44.9	40.1	36.2	32.9	30.0	27.5	...	...	...
21	2.75	6.28	11.7	21.9	31.5	40.8	58.8	76.2	98.1	110	122	100	83.8	71.6	62.0	54.4	48.3	43.2	39.0	35.4	32.3	29.6	...	...	...
22	2.90	6.60	12.3	23.0	33.1	42.9	61.8	80.1	97.9	115	131	107	89.9	76.7	66.5	58.4	51.8	46.3	41.8	37.9	34.6	16.6	...	...	...
23	3.04	6.93	12.9	24.1	34.8	45.0	64.9	84.0	103	121	139	115	96.1	82.0	71.1	62.4	55.3	49.5	44.6	40.5	37.0	...	...	...	...
24	3.18	7.25	13.5	25.3	36.4	47.1	67.9	88.0	108	127	146	122	102	87.4	75.8	66.5	59.0	52.8	47.6	43.2	39.4	...	...	...	...
25	3.32	7.58	14.1	26.4	38.0	49.3	71.0	91.9	112	132	152	130	109	92.9	80.6	70.7	62.7	56.1	50.6	45.9	41.3	...	...	...	...
26	3.47	7.91	14.8	27.5	39.7	51.4	74.0	95.9	117	138	159	138	115	98.6	85.4	75.0	66.5	59.5	53.7	48.7	26.6	...	...	...	...
28	3.76	8.57	16.0	29.8	43.0	55.7	80.2	104	127	150	172	154	129	110	95.5	83.8	74.3	66.5	60.0	54.4	...	...	...	...	...
30	4.05	9.23	17.2	32.1	46.3	60.0	86.4	112	137	161	185	171	143	122	106	92.9	82.4	73.8	66.5	42.4	...	...	...	...	...
32	4.34	9.90	18.5	34.5	49.6	64.3	92.6	120	147	173	199	188	158	135	117	102	90.8	81.3	73.3	...	...	...	...	...	...
35	4.78	10.9	20.3	38.0	54.7	70.9	102	132	162	190	219	215	180	154	133	117	104	92.9	47.7	...	...	...	...	...	...
50	5.52	12.6	23.5	43.9	63.2	81.8	118	153	187	220	253	263	220	188	163	143	127	59.5	...	...	...	...	...	...	...
45	6.27	14.3	26.7	49.8	71.7	92.9	134	173	212	250	287	314	263	224	195	171	80.0	...	...	...	...	...	...	...	...
Lubrication	Type A	Type B					Type C																		

1¾" Pitch No. 140

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																								
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
11	2.12	4.83	9.02	16.8	24.2	31.4	38.4	45.2	52.0	58.6	65.2	71.6	75.2	66.0	52.4	42.9	35.9	30.7	26.6	23.3	20.7	18.5	16.7	15.2	...
12	2.33	5.31	9.91	18.5	26.6	34.5	42.2	49.7	57.1	64.4	71.6	78.7	85.7	75.2	59.7	48.9	41.0	35.0	30.3	26.6	23.6	21.1	19.0	17.3	...
13	2.54	5.79	10.8	20.2	29.0	37.6	46.0	54.2	62.2	70.2	78.0	85.8	93.5	84.8	67.3	55.1	46.2	39.4	34.2	30.0	26.5	23.8	21.5	19.5	...
14	2.75	6.27	11.7	21.8	31.5	40.8	49.8	58.7	67.4	76.0	84.5	93.0	101	94.8	75.2	61.6	51.6	44.1	38.2	33.5	29.7	26.6	24.0	21.8	...
15	2.96	6.76	12.6	23.5	33.9	43.9	53.7	63.2	72.7	81.9	91.1	100	109	10.5	83.4	68.3	57.2	48.9	42.4	37.2	33.0	29.5	26.6	...	...
16	3.18	7.24	13.5	25.2	36.3	47.1	57.5	67.8	77.9	87.8	97.7	107	117	116	91.9	75.2	63.1	53.8	46.7	41.0	36.3	32.5	29.3	...	...
17	3.39	7.73	14.4	26.9	38.8	50.3	61.4	72.4	83.2	93.8	104	115	125	127	101	82.4	69.1	59.0	51.1	44.9	39.8	35.6	32.1	...	...
18	3.61	8.23	15.4	28.6	41.3	53.5	65.3	77.0	88.5	99.8	111	122	133	138	110	89.8	75.2	64.2	55.7	48.9	43.3	38.8	35.0	...	...
19	3.82	8.72	16.3	30.4	43.7	56.7	60.3	81.6	93.8	106	118	129	141	150	119	97.4	81.6	69.7	50.4	53.0	47.0	42.1	37.9	...	...
20	4.04	9.22	17.2	32.1	46.2	59.9	73.2	86.3	99.1	112	124	137	149	161	128	105	88.1	75.2	65.2	57.2	50.8	45.4	...	...	...
21	4.26	9.72	18.1	33.8	48.7	63.1	77.2	91.0	104	118	131	144	157	170	138	113	94.8	80.9	70.2	61.6	54.6	48.9	...	...	...
22	4.48	10.2	19.1	35.6	51.3	66.4	81.2	95.6	110	124	138	151	165	178	148	121	102	86.8	75.2	66.0	58.6	52.4	...	...	...
23	4.70	10.7	20.0	37.3	53.8	69.7	85.2	100	115	130	145	159	173	187	158	130	109	92.8	80.4	70.6	62.6	56.0	...	...	...
24	4.92	11.2	20.9	39.1	56.3	72.9	89.2	105	121	136	151	166	181	196	169	138	116	98.9	85.7	75.2	66.7	59.7	...	...	...
25	5.14	11.7	21.9	40.8	58.8	76.2	93.2	110	126	142	158	174	189	205	180	147	123	105	91.1	80.0	70.9	63.5	...	...	...
26	5.37	12.2	22.8	42.6	61.4	79.5	97.2	115	132	148	165	181	198	214	190	156	131	112	96.7	84.8	75.2	...	...	...	...
28	5.81	13.3	24.7	46.2	66.5	86.2	105	124	143	161	179	197	214	232	213	174	146	125	108	94.8	84.1	...	...	...	...
30	6.26	14.3	26.7	49.7	71.6	92.8	113	134	154	173	193	212	231	249	236	193	162	138	120	105	93.2	...	...	...	...
32	6.71	15.3	28.6	53.3	76.8	99.5	122	143	165	186	206	227	247	267	260	213	178	152	132	116	...	...	...	...	...
35	7.40	16.9	31.5	58.7	84.6	110	134	158	181	205	227	250	272	295	297	243	204	174	151	130	...	...	...	...	...
40	8.54	19.5	36.4	67.9	97.7	127	155	182	210	236	263	289	315	340	363	297	249	213	178	...	...	...	...	...	...
45	9.70	22.1	41.3	77.1	111	144	176	207	238	268	298	328	357	387	434	355	297	237	92.7	...	...	...	...	...	...
Lubrication	Type A	Type B					Type C																		

Type A Manual Lubrication
Type B Bath or Disc Lubrication
Type C Oil Stream Lubrication

Multiple Strand Factors

No. Strands	Strand Factor
1	1.0
2	1.9
3	2.8
4	3.7

Horsepower Ratings
Single Strand Roller Chain

For Multiple Strand Ratings See Chart Page E-191

2" Pitch No. 160

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																							
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300
11	3.07	7.01	13.1	24.4	35.2	45.6	55.7	65.6	75.4	85.0	94.5	96.6	83.7	73.5	65.2	58.3	52.6	47.7	43.6	40.0	34.1	29.6	26.0	23.0
12	3.38	7.70	14.4	26.8	38.6	50.1	61.2	72.1	82.8	93.4	104	110	95.4	83.7	74.2	66.4	59.9	54.4	49.6	45.6	38.9	33.7	29.6	26.3
13	3.68	8.40	15.7	29.2	42.1	54.6	66.7	78.6	90.3	102	113	124	108	94.4	83.7	74.9	67.5	61.3	56.0	51.4	43.9	38.0	33.4	29.6
14	3.99	9.10	17.0	31.7	45.6	59.1	72.3	85.2	97.8	110	123	135	120	105	93.6	83.7	75.5	68.5	62.6	57.4	49.0	42.5	37.3	33.1
15	4.30	9.80	18.3	34.1	49.2	63.7	77.9	91.7	105	119	132	145	133	117	104	92.8	83.7	76.0	69.4	63.7	45.4	47.1	41.4	...
16	4.61	10.5	19.6	36.6	52.7	68.3	83.5	98.4	113	127	142	156	147	129	114	102	92.2	83.7	76.4	70.2	59.9	51.9	45.6	...
17	4.92	11.2	20.9	39.1	56.3	72.9	89.1	105	121	136	151	166	161	141	125	112	101	91.7	83.7	75.8	65.6	56.9	49.9	...
18	5.23	11.9	22.3	41.6	59.9	77.6	94.8	112	128	145	161	177	175	154	136	122	110	99.9	91.2	83.7	71.5	62.0	54.4	...
19	5.55	12.7	23.6	44.1	63.5	82.2	101	118	136	153	171	188	190	167	148	132	119	108	98.9	90.8	77.6	67.2	59.0	...
20	5.86	13.4	25.0	46.6	67.1	86.9	106	125	144	162	180	198	205	180	160	143	129	117	93.1	83.7	72.6	63.7	...	...
21	6.18	14.1	26.3	49.1	70.7	91.6	112	132	152	171	190	209	221	194	172	154	139	126	115	105	90.1	78.1	68.5	...
22	6.50	14.8	27.7	51.6	74.4	96.3	118	139	159	180	200	220	237	208	184	165	149	135	123	113	96.6	83.7	...	...
23	6.82	15.6	29.0	54.2	78.0	101	124	146	167	189	210	231	251	222	197	176	159	144	132	121	103	98.5	...	...
24	7.14	16.3	30.4	56.7	81.7	106	129	152	175	197	220	241	263	237	210	188	169	154	140	129	110	95.4	...	...
25	7.46	17.0	31.8	59.3	85.4	111	135	159	183	206	229	252	275	252	223	200	180	164	149	137	117	101	...	...
26	7.78	17.8	33.1	61.8	89.1	115	141	166	191	215	239	263	287	267	237	212	191	173	158	145	124	108	...	...
28	8.43	19.2	35.9	67.0	96.5	125	153	180	207	233	259	285	311	298	265	237	214	194	177	162	139	120	...	...
30	9.08	20.7	38.7	72.2	104	135	165	194	223	251	279	307	335	331	293	263	237	215	196	180	154	...	...	...
32	9.74	22.2	41.5	77.4	111	144	176	208	239	269	300	329	359	365	323	289	261	237	216	198	169	...	...	...
35	10.7	24.5	45.7	85.2	123	159	194	229	263	297	330	363	395	417	370	331	298	271	247	227	180	...	...	...
40	12.4	28.3	52.8	98.5	142	184	225	265	304	343	381	419	457	494	452	404	365	331	302	257	...	...	...	...
45	14.1	32.1	59.9	112	161	209	255	301	345	389	433	476	519	561	538	482	418	348	271	189	...	...	...	...
Lubrication	Type A	Type B			Type C																			

2¼" Pitch No. 180

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																							
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	750	800	850	900	950	1000	1050	1100	1150
11	4.24	9.68	18.1	33.7	48.6	62.9	76.9	90.6	104	117	124	106	92.0	80.7	71.6	57.8	52.4	47.9	43.9	40.5	37.5	34.9	32.5	...
12	4.66	10.6	19.8	37.0	53.4	69.1	84.5	99.6	114	129	142	121	105	92.0	81.6	65.8	59.7	54.6	50.1	46.2	42.8	39.7	37.1	...
13	5.08	11.6	21.6	40.4	58.2	75.4	92.1	109	125	141	156	136	118	104	92.0	74.2	67.4	61.5	55.5	52.1	48.2	44.8	...	...
14	5.51	12.6	23.4	43.7	63.0	81.6	99.8	118	135	152	169	152	132	116	103	82.9	75.3	68.7	63.1	58.2	53.9	50.1	...	...
15	5.93	13.5	25.3	47.1	67.9	88.0	108	127	146	164	182	169	146	129	114	92.0	83.5	76.2	70.0	64.5	59.7	55.5	...	...
16	6.36	14.5	27.1	50.5	72.8	94.3	115	136	156	176	196	186	161	142	126	101	92.0	84.0	77.1	71.1	65.8	61.2	...	...
17	6.79	15.5	28.9	54.0	77.7	101	123	145	167	188	209	204	177	155	138	111	101	92.0	84.4	77.9	72.1	...	...	...
18	7.22	16.5	30.8	57.4	82.7	107	131	154	177	200	222	222	193	169	150	121	110	100	92.0	84.8	78.5	...	...	...
19	7.66	17.5	32.6	60.8	87.6	114	139	164	188	212	236	241	209	183	163	131	119	109	99.8	92.0	85.2	...	...	...
20	8.10	18.5	34.5	64.3	92.6	120	147	173	199	224	249	260	226	198	175	142	129	117	108	99.3	92.0	...	...	...
21	8.53	19.5	36.3	67.8	97.6	126	155	182	209	236	262	280	243	213	189	152	138	126	116	107	99.0	...	...	...
22	8.97	20.5	38.2	71.3	103	133	163	192	220	248	276	300	260	228	203	163	148	135	124	115	...	...	...	...
23	9.41	21.5	40.1	74.8	108	140	171	201	231	260	290	318	278	244	216	175	159	145	133	123	...	...	...	...
24	9.86	22.5	42.0	78.3	113	146	179	210	242	273	303	333	296	260	231	186	169	154	142	131	...	...	...	...
25	10.3	23.5	43.9	81.8	118	153	187	220	253	285	317	348	315	277	245	198	180	164	151	139	...	...	...	...
26	10.7	24.5	45.7	85.4	123	159	195	229	264	297	331	363	334	293	260	210	191	174	160	...	...	...	...	...
28	11.6	26.6	49.6	92.5	133	173	211	249	286	322	358	394	374	328	291	235	213	194	178	...	...	...	...	...
30	12.5	28.6	53.4	99.6	144	186	227	268	308	347	386	424	414	364	322	260	236	216	198	...	...	...	...	...
32	13.4	30.7	57.2	107	154	199	244	287	330	372	414	455	456	401	355	287	260	238	...	...	...	...	...	...
35	14.8	33.8	63.1	118	170	220	268	316	363	410	456	501	522	458	406	328	291	220	...	...	...	...	...	...
40	17.	39.0	72.9	136	196	254	310	365	420	473	526	579	575	524	465	324	244	...	...	...	...	...	...	...
45	19.4	44.3	82.7	154	222	288	352	415	477	538	598	631	578	514	441	271	...	...	...	...	...	...	...	...
Lubrication	Type A	Type B			Type C																			

2½" Pitch No. 200

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																		
	10	15	20	30	40	50	70	100	150	200	250	300	350	400	450	550	600	650
11	5.64	8.12	10.5	15.1	19.6	24.0	32.5	44.8	64.5	83.5	102	120	138	156	135	100	87.8	77.9
12	6.19	8.92	11.6	16.6	21.6	26.4	35.7	49.2	70.8	91.8	112	132	152	171	154	114	100	...
13	6.75	9.72	12.6	18.1	23.5	28.7	38.9	53.6	77.2	100	122	144	168	187	174	129	113	...
14	7.31	10.5	13.6	19.7	25.5	31.1	42.1	58.1	83.7	108	132	156	179	202	194	144	126	...
15	7.88	11.3	14.7	21.2	27.4	33.5	45.4	62.6	90.1	117	143	168	183	218	215	159	140	...
16	8.45	12.2	15.8	22.7	29.4	36.0	48.7	67.1	96.6	125	153	180	207	234	237	176	154	...
17	9.02	13.0	16.8	24.2	31.4	38.4	52.0	71.6	103	134	163	193	221	249	260	192	169	...
18	9.59	13.8	17.9	25.8	33.4	40.8	55.3	76.2	110	142	174	205	235	265	283	209	184	...
19	10.2	14.6	19.0	27.3	35.4	43.3	58.6	80.8	116	151	184	217	249	281	307	227	198	...
20	10.7	15.5	20.1	28.9	37.4	45.8	61.9	85.4	123	159	195	229	264	297	331	245	...	...
21	11.3	16.3	21.1	30.5	39.5	48.2	65.3	90.0	130	168	205	242	278	313	348	264	...	...
22	11.9	17.2	22.2	32.0	41.5	50.7	68.7	94.6	136	177	216	254	292	330	366	283	...	...
23	12.5	18.0	23.3	33.6	43.5	53.2	72.0	99.3	143	185	226	267	307	346	384	303	...	...
24	13.1	18.9	24.4	35.2	45.6	55.7	75.4	104	150	194	237	279	321	362	402	323	...	...
25	13.7	19.7	25.5	36.8	47.6	58.2	78.8	109	156	203	248	292	335	378	421	343	...	...
26	14.3	20.6	26.6	38.4	49.7	60.7	82.2	113	163	212	259	305	350	395	439	364	...	...
Lubrication	Type A		Type B							Type C								

Horsepower Ratings
Single Strand Roller Chain

For Multiple Strand Ratings See Chart at Bottom

3" Pitch No. 240

No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																			
	5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250	300	350	400	450
11	4.86	9.08	13.1	16.9	20.7	24.4	31.6	38.6	45.5	59.0	72.1	88.1	104	119	135	164	194	223	187	156
12	5.34	9.97	14.4	18.6	22.7	26.8	34.7	42.4	50.0	64.8	79.2	96.8	114	131	148	181	213	245	218	...
13	5.83	10.9	15.7	20.3	24.8	29.2	37.9	46.3	54.5	70.6	86.4	106	124	143	161	197	232	267	240	...
14	6.31	11.8	17.0	22.0	26.9	31.7	41.0	50.1	59.1	76.5	93.6	114	135	155	175	213	251	289	268	...
15	6.80	12.7	18.3	23.7	28.9	34.1	44.2	54.0	63.6	82.4	101	123	145	167	188	230	274	311	297	...
16	7.29	13.6	19.6	25.4	31.0	36.6	47.4	57.9	68.2	88.4	108	132	156	179	202	247	290	334	328	...
17	7.78	14.5	20.9	27.1	33.1	39.0	50.6	61.8	72.9	94.4	115	141	166	191	215	263	310	356	359	...
18	8.28	15.4	22.3	28.8	35.2	41.5	53.8	65.8	77.5	100	123	150	177	203	229	280	330	379	377	...
19	8.78	16.4	23.6	30.6	37.4	44.0	57.0	69.7	82.2	106	130	159	187	215	243	297	360	402	393	...
20	9.28	17.3	24.9	32.3	39.5	46.5	60.3	73.7	86.8	112	138	168	198	228	257	314	370	423	407	...
21	9.78	18.2	26.3	34.1	41.6	49.0	63.5	77.7	91.5	119	145	177	209	240	270	331	390	439	421	...
22	10.3	19.2	27.6	35.8	43.8	51.6	66.8	81.7	96.2	125	152	186	220	252	284	348	410	454	435	...
23	10.8	20.1	29.0	37.6	45.9	54.1	70.1	85.7	101	131	160	195	230	265	298	365	430	469	448	...
24	11.3	21.1	30.4	39.3	48.1	56.7	73.4	89.7	106	137	167	205	241	277	312	282	450	483	...	...
25	11.8	22.0	31.7	41.1	50.3	59.2	76.7	93.8	110	143	175	214	252	290	327	399	470	496	...	...
26	12.3	23.0	33.1	42.9	52.4	61.8	80.0	97.8	115	149	183	223	263	302	341	416	491	509	...	...

American Standard No. 2040

No. of Effective Teeth in Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	25	50	100	150	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300
11	.202	.379	.687	.958	1.19	1.41	1.59	1.89	2.14	2.32							
12	.223	.419	.766	1.07	1.34	1.58	1.81	2.16	2.46	2.71	2.88						
13	.243	.458	.842	1.18	1.48	1.76	2.00	2.44	2.79	3.08	3.31	3.48					
14	.263	.497	.914	1.28	1.63	1.93	2.20	2.67	3.09	3.44	3.70	3.91	4.10				
15	.283	.535	.989	1.39	1.76	2.09	2.40	2.93	3.38	3.77	4.08	4.32	4.52	4.67			
16	.303	.572	1.06	1.49	1.89	2.25	2.59	3.17	3.67	4.09	4.44	4.73	4.96	5.13			
17	.322	.611	1.13	1.59	2.02	2.41	2.77	3.41	3.95	4.41	4.80	5.10	5.38	5.57	5.72		
18	.342	.648	1.20	1.70	2.15	2.57	2.94	3.63	4.21	4.71	5.13	5.48	5.76	5.97	6.15		
19	.361	.687	1.27	1.80	2.28	2.72	3.14	3.86	4.49	5.02	5.48	5.85	6.17	6.41	6.61	6.70	
20	.380	.720	1.34	1.90	2.40	2.87	3.29	4.07	4.72	5.29	5.76	6.17	6.50	6.77	6.98	7.13	
21	.399	.758	1.41	1.99	2.52	3.01	3.47	4.27	4.97	5.57	6.07	6.50	6.86	7.13	7.35	7.50	
22	.419	.794	1.48	2.08	2.64	3.15	3.63	4.48	5.20	5.83	6.37	6.81	7.18	7.48	7.71	7.87	
23	.437	.829	1.54	2.18	2.76	3.30	3.79	4.68	5.42	6.09	6.64	7.11	7.49	7.80	8.04	8.21	8.30
24	.456	.866	1.60	2.27	2.88	3.44	3.96	4.87	5.67	6.35	6.92	7.40	7.80	8.12	8.37	8.54	8.63
25	.475	.902	1.67	2.36	3.00	3.58	4.11	5.07	5.90	6.60	7.19	7.73	8.10	8.42	8.67	8.84	8.94
30	.568	1.076	1.99	2.81	3.56	4.24	4.86	5.95	6.93	7.76	8.40	8.90	9.38	9.72	9.95	10.09	10.15
35	.657	1.247	2.30	3.24	4.09	4.86	5.56	6.81	7.86	8.71	9.42	9.99	10.43	10.72	10.93	10.97	
40	.748	1.413	2.60	3.65	4.59	5.44	6.22	7.57	8.67	9.60	10.31	10.86	11.23	11.49	11.61		
Lubrication type	1				2				3								

American Standard No. 2050

No. of Effective Teeth in Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET															
	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900
11	.385	.72	1.29	1.78	2.19	2.56	2.85	3.12	3.33	3.53						
12	.428	.80	1.44	1.99	2.48	2.90	3.26	3.58	3.86	4.10	4.31					
13	.457	.87	1.59	2.20	2.74	3.23	3.65	4.03	4.36	4.66	4.91	5.11	5.30			
14	.506	.95	1.73	2.41	3.01	3.55	4.02	4.45	4.84	5.17	5.48	5.73	5.96			
15	.544	1.02	1.87	2.61	3.27	3.86	4.39	4.88	5.31	5.68	6.02	6.31	6.57	6.94		
16	.582	1.09	2.00	2.81	3.52	4.16	4.74	5.26	5.73	6.16	6.55	6.87	7.19	7.61		
17	.620	1.16	2.14	2.99	3.77	4.46	5.09	5.66	6.17	6.63	7.05	7.42	7.75	8.24	8.62	
18	.658	1.23	2.27	3.19	4.01	4.75	5.41	6.03	6.58	7.09	7.54	7.94	8.31	8.84	9.28	
19	.696	1.31	2.41	3.39	4.25	5.05	5.76	6.42	7.00	7.55	8.04	8.46	8.87	9.42	9.90	
20	.732	1.38	2.54	3.56	4.48	5.32	6.07	6.75	7.38	7.95	8.46	8.92	9.35	9.97	10.49	
21	.769	1.45	2.66	3.75	4.70	5.59	6.38	7.10	7.77	8.37	8.90	9.39	9.84	10.50	11.06	11.44
22	.806	1.52	2.79	3.92	4.92	5.86	6.69	7.45	8.14	8.76	9.33	9.84	10.31	11.01	11.59	12.00
23	.842	1.58	2.91	4.09	5.16	6.12	6.98	7.78	8.50	9.15	9.74	10.27	10.76	11.50	12.10	12.52
24	.879	1.65	3.05	4.27	5.37	6.38	7.28	8.10	8.85	9.54	10.16	10.70	11.21	11.97	12.59	13.03
25	.914	1.72	3.17	4.45	5.59	6.62	7.58	8.42	9.20	9.91	10.55	11.12	11.64	12.42	13.05	13.50
30	1.092	2.06	3.77	5.28	6.63	7.84	8.93	9.92	10.82	11.62	12.35	12.99	13.57	14.39	15.06	15.48
36	1.267	2.38	4.35	6.07	7.59	8.96	10.18	11.27	12.26	13.14	13.92	14.59	15.17	16.00	16.62	16.94
40	1.44	2.70	4.91	6.82	8.51	10.00	11.33	12.51	13.57	14.49	15.28	15.95	16.57	17.29	17.78	
Lubrication type	1			2					3							

Type 1: Manual drip (4 to 10 drops per minute), or splash.
Type 2: Rapid drip (20 drops per minute minimum), splash, or disc.
Type 3: Disc or forced.

No. Strands	Strand Factor
2	1.7
3	2.5
4	3.3

Horsepower Ratings
Single Strand Roller Chain

For Multiple Strand Ratings See Chart at Bottom

American Standard No. 2060

No. of Effective Teeth In Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	25	50	75	100	125	150	200	250	300	350	400	450	500	550	600	650	700
11	.66	1.21	1.70	2.15	2.54	2.93	3.58	4.12	4.56	4.93							
12	.73	1.34	1.90	2.41	2.85	3.30	4.05	4.70	5.24	5.71	6.08						
13	.79	1.48	2.09	2.65	3.15	3.65	4.52	5.27	5.91	6.46	6.92	7.32					
14	.86	1.60	2.27	2.90	3.45	4.00	4.97	5.79	6.54	7.17	7.72	8.18	8.58				
15	.92	1.72	2.45	3.14	3.74	4.34	5.39	6.32	7.14	7.86	8.48	9.01	9.48				
16	.99	1.85	2.64	3.36	4.01	4.66	5.82	6.82	7.73	8.52	9.21	9.80	10.34	10.77			
17	1.05	1.97	2.82	3.59	4.28	4.98	6.22	7.32	8.29	9.14	9.91	10.56	11.14	11.64	12.06		
18	1.12	2.10	2.99	3.82	4.56	5.31	6.63	7.82	8.85	9.78	10.60	11.31	11.96	12.50	12.97		
19	1.18	2.23	3.17	4.05	4.83	5.62	7.03	8.29	9.42	10.41	11.29	12.08	12.76	13.35	13.87	14.30	
20	1.25	2.34	3.34	4.26	5.09	5.93	7.41	8.74	9.92	10.97	11.91	12.74	13.46	14.08	14.64	15.10	
21	1.31	2.46	3.51	4.49	5.36	6.24	7.80	9.19	10.43	11.55	12.52	13.40	14.14	14.83	15.42	15.90	
22	1.37	2.58	3.67	4.70	5.62	6.54	8.16	9.62	10.93	12.08	13.13	14.04	14.84	15.55	16.15	16.67	
23	1.44	2.69	3.83	4.90	5.86	6.83	8.53	10.06	11.42	12.62	13.71	14.67	15.49	16.22	16.87	17.38	17.83
24	1.50	2.80	4.00	5.11	6.11	7.12	8.90	10.47	11.90	13.16	14.28	15.27	16.14	16.89	17.56	18.11	18.57
25	1.56	2.92	4.17	5.32	6.36	7.41	9.27	10.89	12.37	13.67	14.84	15.86	16.76	17.53	18.21	18.79	19.24
30	1.86	3.48	4.96	6.32	7.55	8.78	10.94	12.76	14.55	16.05	17.38	18.54	19.53	20.38	21.11	21.70	22.16
35	2.16	4.03	5.73	7.29	8.67	10.06	12.52	14.67	16.54	18.17	19.61	20.80	21.88	22.73	23.40	23.99	
40	2.45	4.55	6.46	8.20	9.70	11.31	13.99	16.33	18.35	20.08	21.57	22.84	23.86	24.64	25.42		
Lubrication Type	1				2						3						

American Standard No. 2080

No. of Effective Teeth In Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	10	20	30	40	50	60	70	80	90	100	150	200	250	300	350	400	450
11	.66	1.24	1.78	2.26	2.76	3.20	3.60	3.99	4.38	4.78	6.36	7.60					
12	.72	1.37	1.96	2.52	3.08	3.56	4.03	4.48	4.92	5.36	7.20	8.68	9.82				
13	.79	1.49	2.15	2.77	3.36	3.91	4.44	4.95	5.45	5.93	8.02	9.73	11.08				
14	.85	1.62	2.33	3.01	3.66	4.26	4.85	5.42	5.96	6.49	8.82	10.75	12.29	13.60			
15	.91	1.74	2.52	3.25	3.95	4.60	5.25	5.86	6.45	7.03	9.60	11.74	13.46	14.94			
16	.98	1.87	2.70	3.48	4.24	4.94	5.64	6.29	6.93	7.56	10.36	12.70	14.59	16.24	17.65		
17	1.04	1.99	2.88	3.71	4.52	5.28	6.02	6.72	7.40	8.09	11.10	13.63	15.69	17.50	19.04		
18	1.11	2.11	3.05	3.94	4.80	5.61	6.40	7.14	7.87	8.60	11.82	14.53	16.76	18.72	20.38	21.77	
19	1.17	2.23	3.23	4.17	5.09	5.94	6.77	7.56	8.33	9.10	12.52	15.40	17.80	19.90	21.67	23.18	
20	1.23	2.35	3.40	4.40	5.36	6.26	7.13	7.98	8.78	9.60	13.20	16.25	18.81	21.04	22.91	24.52	
21	1.29	2.47	3.57	4.62	5.62	6.58	7.49	8.39	9.23	10.09	13.87	17.08	19.79	22.14	24.11	25.80	
22	1.36	2.58	3.74	4.84	5.90	6.89	7.84	8.79	9.67	10.57	14.53	17.90	20.74	23.20	25.27	27.03	
23	1.42	2.70	3.90	5.06	6.16	7.20	8.19	9.18	10.10	11.05	15.18	18.71	21.66	24.23	26.40	28.22	
24	1.48	2.82	4.05	5.27	6.43	7.51	8.54	9.56	10.53	11.52	15.82	19.51	22.55	25.23	27.50	29.38	30.98
25	1.54	2.92	4.20	5.48	6.69	7.81	8.89	9.94	10.95	11.98	16.45	20.30	23.42	26.20	28.57	30.52	32.16
30	1.84	3.50	5.02	6.54	7.96	9.29	10.59	11.74	12.97	14.23	19.46	23.91	27.52	30.70	33.56	35.52	37.26
35	2.14	4.07	5.82	7.56	9.19	10.71	12.21	13.48	14.92	16.35	22.26	27.23	31.21	34.65	37.57	39.66	
40	2.43	4.61	6.60	8.55	10.38	12.09	13.76	15.17	16.80	18.36	24.88	30.28	34.52	38.09	40.96	43.07	
Lubrication Type	1									2			3				

Type 1: Manual drip (4 to 10 drops per minute), or splash.
Type 2: Rapid drip (20 drops per minute minimum), splash, or disc.
Type 3: Disc or forced.

No. Strands	Strand Factor
2	1.7
3	2.5
4	3.3

ENGINEERED CLASS SPROCKETS

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Engineered Class Sprockets
Steel Cut and Cast Iron



Martin's Engineering Class Sprockets are manufactured to the highest quality standards. Martin offers Engineering Class Sprockets in both Flame Cut (Accu-Torch) and Cast Iron.

ASME Standard Torch Profiles – Elongated Root Design promotes a self-cleaning effect of the root to keep your demanding applications moving.

These sprockets are available in A ,B, andC Hub Types:

- A style (no hub) typically used in weld-on applications.
- B style (hub one side) is used in applications where clearance width is narrow (these are typically more economical than C style).
- C style (hub both sides) which is used in applications where B style is not wide enough to withstand torques produced by drive.



Martin also offers Split Style construction. The split style allows for easy removal or installation. They can be used in nearly all applications. The shaft/keyway security is much tighter than a typical setscrew mount.

Flame hardening, induction heat treating, and chilled rim are available for longer wear life.

Steel Accu-Torch® Sprockets for Engineering Chain





Martin Accu-Torch® steel sprockets are available for virtually all engineering class chains in style A, B, and C. Also available as split with welded hub and split or solid detachable hub. May also be furnished as shear pin type. Send us your inquiries.

Where possible please specify chain number, pitch diameter, number of teeth, bore and keyway size, and hub style required.

Accu-Torch® sprockets are not intended to replace cut tooth roller chain sprockets.

MTO Engineered Class Sprockets



ALL STEEL
WIDE DRAG SPROCKET



SPLINED MUD
RELIEF
ACCU-TORCH®



SPECIAL ACCU-TORCH®
FOR SEWAGE TREATMENT



10 FT. DIAMETER ACCU-TORCH®
FOR PAPER MILLS

For quality and dependable service, call Martin for all your made-to-order requirements.

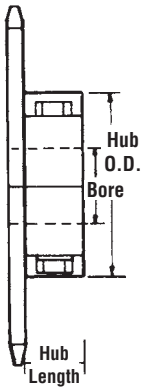
Instant Split® Sprockets

Martin Instant Split® / Accu-Torch® sprockets offer unlimited design and are simply installed with a hand wrench... greatly reducing costly downtime.



Accu-Torch® Size for Instant Split® Hubs

Split Hub Number	Bore	Minimum Number of Teeth Chain Number / Pitch 62 1.654	78 2.609	1568 3.067	1030 3.075	82 3.075	238 3.500	124 4.000	1240 4.063	635 4.500	1207 5000	132 6.050
S-1	.75" – 1.5"	9	7									
S-2	1.375" – 2.25"	12	8	8	8	7	8	6	7			
S-3	2" – 3"	15	10	10	9	9	9	7	8	8		
S-4	2.75" – 4"	18	12	12	11	11	10	9	9	9	8	
S-5	3.75" – 5"	21	14	13	13	12	12	10	10	10	9	7
S-6	4.75" – 6"	23	15	14	14	13	13	11	11	11	10	8
S-7	5.75" – 7"	27	18	16	16	15	15	12	13	12	11	9
S-8	6.25" – 8"	31	20	18	18	17	16	14	14	14	13	10



Pricing Example Style B
1030B25 Split with S-3 Hub,
2.938" Bore, KW and SS

S-3 Hub
1030A25 Plate

See Hub List
See Plate List
Total Price List



Pricing Example Style B
1030B25 Split with S-3 Hub,
2.938" Bore, KW and SS

Two S-3 Hubs
1030A25 Plate

See Hub List
See Plate List
Total Price List

Instant Split Hubs are for use with Plate Sprockets only.

Hub Number	Bore	Hub O.D.	Hub ★ Length	Bolts	Weight (lb)
S-1	.75" - 1.5"	3.125"	1"	.375" × 2.25"	1.8
S-2	1.375" - 2.25"	4.375"	1.25"	.5" × 3"	4.1
S-3	2" - 3"	6"	1.375"	.625" × 4.5"	8.4
S-4	2.75" - 4"	7.625"	1.5"	.75" × 5.5"	14.4
S-5	3.75" - 5"	9.25"	2"	1" × 6"	27.8
S-6	4.75" - 6"	10.25"	2.25"	1" × 6"	35.4
S-7	5.75" - 7"	12.5"	2.5"	1" × 7"	64.4
S-8	6.25" - 8"	14.5"	3"	1" × 8"	98.5

★Add hub length to plate thickness to determine length thru bore.

Solid and Split Detachable Hubs

TYPE D SPROCKETS — STOCK DETACHABLE HUBS

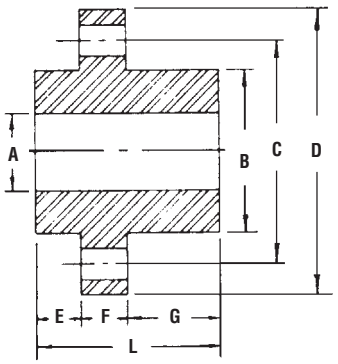
Type D sprockets consist of a Type A plate sprocket bolted to a detachable hub. A solid or split plate sprocket may be assembled to a solid or split hub. When ordering a Type D sprocket, be sure to select a plate sprocket large enough to allow chain clearance over the hub flange diameter, dimension D.

Bolt holes of Type D hubs are drilled for interchangeability. Speed ratios may be changed simply by removing the plate sprocket and substituting another with a different number of teeth. When worn, the sprocket may be reversed to use the unworn tooth surfaces, increasing the life of the sprocket.

Solid Hubs - Steel — Dimensions (Inches)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F	G★	L
	Stock	Maximum				Number	Bolt Size				
101	0.625	1.75	2.5	3.375	4.25	6	0.375	0.5	0.375	1.125	2
102	1.438	2	3	4	5	6	0.438	0.5	0.5	1.5	2.5
103	1.813	2.5	4	5.063	6	6	0.5	0.5	0.625	1.625	2.75
104	2.313	3	4.5	5.75	7	6	0.625	0.5	0.75	2	3.25
105	2.563	3.25	5	6.25	7.5	6	0.625	0.563	0.938	2.5	4
106	2.813	3.75	5.5	7	8.5	6	0.625	0.625	1	2.375	4
107	3.313	4	6	7.5	9	6	0.625	0.625	1.25	2.375	4.25
108	3.563	4.5	7	8.625	10.375	6	0.75	0.625	1.375	2.5	4.5
109	4.063	7	10.5	13	15.5	6	1	0.75	1.5	2.75	5

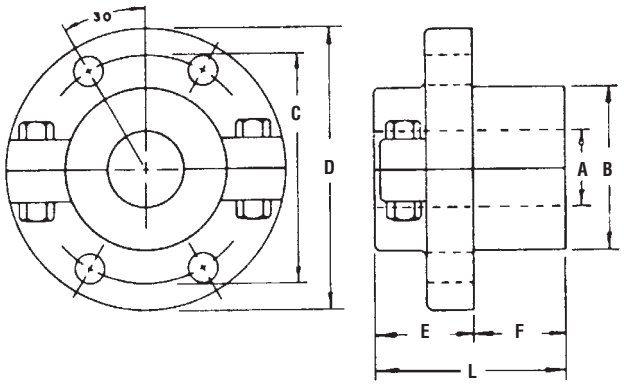
★Maximum bores shown are maximum bores with standard keyseat and setscrew.



ALTERATION CHARGES

See current list price and discount sheet for alteration charges.

The List Price as shown in the List Price Book is for hub with stock bore. To obtain the price of a complete Type D sprocket add the List Price of hub plus alteration charges and the List Price of the desired Type A plate sprocket, including rebore, bolt hole drilling, and splitting charge if desired.



Split Hubs - Cast Iron — Dimensions (Inches)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F★	L
	Stock	Maximum				Number	Bolt Size			
102S	1.313	1.5	3	4	5	4	0.438	1.75	1.375	3.125
103S	1.563	2.25	4	5.063	6	4	0.5	2	1.5	3.5
104S	2.313	2.5	4.5	5.75	7	4	0.625	2.25	1.75	4
105S	2.563	2.75	5	6.25	7.5	4	0.625	2.25	1.875	4.125
106S	2.813	3.25	5.5	7	8.5	4	0.625	2.5	2	4.5
107S	3.313	3.5	6	7.5	9	4	0.625	3	1.75	4.75
108S	3.563	4	7	8.625	10.375	4	0.75	3.375	1.875	5.25
109S	4.063	6	10.5	13	15.5	4	1	4.125	1.75	5.875
109	4.063	7	10.5	13	15.5	6	1	0.75	1.5	2.75

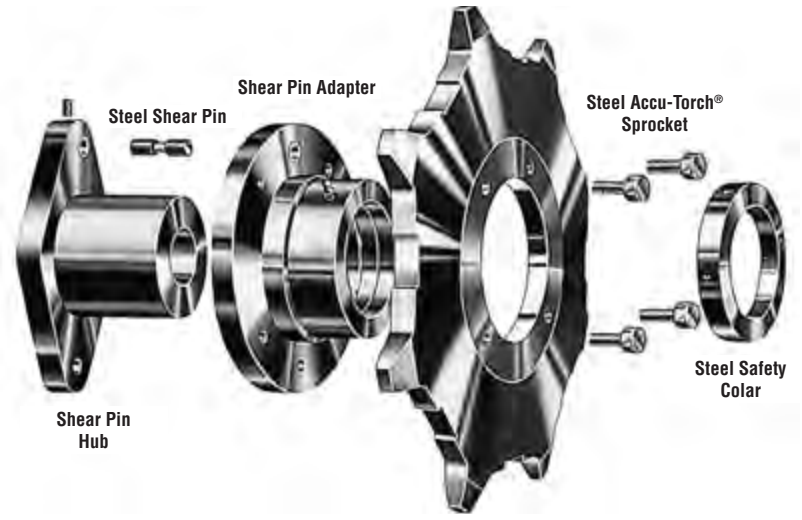
Maximum bores shown are maximum bores with standard keyseat and setscrew.
★Plate thickness of Accu-Torch® not recommended if larger than dimension listed.

Bolt-On Shear Pin Accu-Torch® Sprockets

Shear pin sprockets provide simple, dependable protection against expensive machinery damage caused by overloads or jamming. Torque is transmitted by a single pin, necked to shear when the safe load is exceeded. When an overload occurs, the pin shears, disconnecting the drive immediately.

The Bolt-On Shear Pin Adapter converts any plate sprocket into a stock shear pin sprocket allowing immediate delivery of stock shear pin sprockets.

Selection guide on page F-9 gives complete procedure to select the proper shear pin assembly.



Stock Shear Pin Assemblies

Shear Pin Assembly Part Number	Hub Bore Range	Shear Pin Hub Part Number	Shear Pin Adapter Part Number
SP-17	1" and UNDER	SPH-17	SPA-17
SP-18	1.063 - 1.25	SPH-18	SPA-18
SP-19	1.313 - 1.5	SPH-19	SPA-19
SP-20	1.563 - 1.75	SPH-20	SPA-20
SP-21	1.813 - 2	SPH-21	SPA-21
SP-22	2.063 - 2.25	SPH-22	SPA-22
SP-23	2.313 - 2.5	SPH-23	SPA-23
SP-24	2.563 - 2.75	SPH-24	SPA-24
SP-25	2.813 - 3	SPH-25	SPA-25
SP-26	3.063 - 3.5	SPH-26	SPA-26
SP-27	3.563 - 4	SPH-27	SPA-27
SP-28	4.063 - 4.5	SPH-28	SPA-28
SP-29	4.563 - 5	SPH-29	SPA-29
SP-30	4.875 - 5.5	SPH-30	SPA-30
SP-31	5.563 - 6	SPH-31	SPA-31

NOTES ON PRICING:

Shear Pin Hub List Price includes any finished bo e within the stated range, standard keyway and setscrew, hardened steel shear pin bushing.

Shear Pin Adapter List Price includes the shear pin bushing, grease fitting.

Complete Assembly List Price includes all components of the shear pin assembly as described above. Total list price of any shear pin sprocket is the complete assembly list price plus the list price of the desired plate sprocket (from tables of stock sprocket list prices).

Replacement Sprockets should be priced as altered stock sprockets directly from List Price and Alteration Charge tables.

Shear Pin Components may be ordered separately and will be treated as stock items when conforming to standard specifications and descriptions above.

PRICING EXAMPLES:

1. Stock Shear Pin Accu-Torch® Sprocket

To price a 25 tooth shear pin sprocket for 1030 chain (1030SP25) using SP-26 shear pin assembly with 3.438" bore, standard keyway and setscrew:

SP-26 Assembly..... See List Price Sheet
1030A25 . . . . . .

2. Shear Pin Adapter and Sprocket for Existing Hub

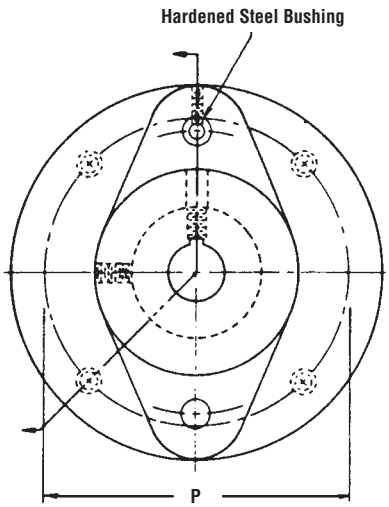
To price a “Bolt-on” shear pin adapter and sprocket to replace the sprocket part of existing 78A12 using SP-20 hub:

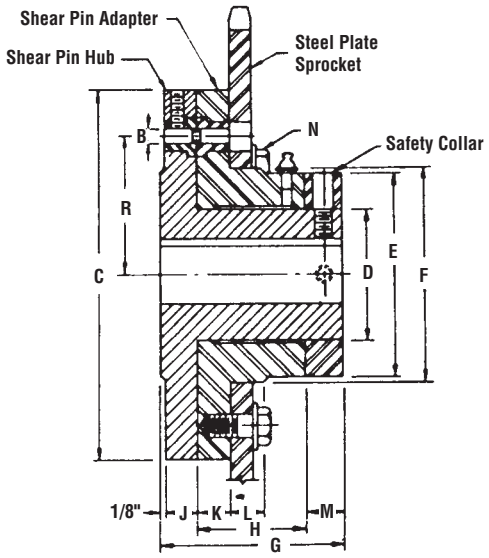
SPA-20 Adapter ..... See List Price Sheet
78A12 . . . . . .

Shear Pin Sprockets can also be furnished in other standard styles or made to customers specifications. Price on application.

It is important that torque requirement for selected hub be checked in torque rating on page F-9 and neck diameter of shear pins be specified.

Bolt-On Shear Pin
Accu-Torch® Sprockets







Sprocket Sizes for Stock Shear Pin Assemblies

Shear Pin Assembly Number	Hub Bore Range	Minimum Teeth Number										
		Chain Number / Pitch										
		62	78	1568	1030	82	238	124	1240	635	1207	132
		1.654	2.609	3.067	3.075	3.075	3.500	4.000	4.063	4.500	5.000	6.050
SP-19	1.313 - 1.5	16									AVAILABLE AS MADE TO ORDER CHECK YOUR NEAREST Martin FACILITY	AVAILABLE AS MADE TO ORDER CHECK YOUR NEAREST Martin FACILITY
SP-20	1.563 - 1.75	17	12									
SP-21	1.813 - 2	19	13			11						
SP-22	2.063 - 2.25	21	14	13	13	12	12					
SP-23	2.313 - 2.5	22	15	14	13	13	12	10				
SP-24	2.563 - 2.75	25	16	15	15	14	13	11	12	11		
SP-25	2.813 - 3	26	18	16	16	15	14	12	13	12		
SP-26	3.063 - 3.5	28	19	17	17	16	15	13	13	13		
SP-27	3.563 - 4	32	21	19	19	18	17	14	15	14		
SP-28	4.063 - 4.5	34	22	20	20	19	18	15	15	15		
SP-29	4.563 - 5	36	24	21	21	20	19	16	16	15		
SP-30	4.875 - 5.5	41	27	24	23	23	21	18	18	17		
SP-31	5.563 - 6	45	30	26	25	25	23	20	20	19		

Shear Pin Assembly Dimensions (Inches)

Shear Pin Assembly Number	Shear Pin		Diameters				Length Thru			Thickness		Sprocket Seat Width	Bolts		Weight (lb)	
	Radius	Pin Diameter	Flange	Shear Pin Hub	Adapter Hub and Collar	Sprocket Seat	Shear Pin Hub	Adapter	Collar	Hub Flange	Adapter Flange		Number and Size	Bolt Circle	Shear Pin Hub	Shear Pin Adapter
	A	B	C	D	E	F	G	H	M	J	K	L	N	P		
SP-19	2.563	0.313	6.75	2.75	4	4.125	3.563	2.125	0.625	0.688	0.688	0.688	4 - 0.5	5.5	7.2	7.6
SP-20	3	0.375	7.75	3.25	4.75	4.875	4.188	2.5	0.75	0.813	0.813	0.688	4 - 0.5	6.25	11.0	11.9
SP-21	3.313	0.438	8.75	3.75	5.25	5.375	4.813	2.875	0.875	0.938	0.938	0.938	4 - 0.625	7	16.2	16.9
SP-22	3.813	0.5	9.75	4.25	6.25	6.375	5.188	3	1	0.688	0.688	0.813	4 - 0.625	8	23.3	24.5
SP-23	4	0.5	10	4.5	6.5	6.625	5.688	3.5	1	0.688	0.688	1.375	4 - 0.625	8.25	26.3	27.7
SP-24	4.375	0.563	11.5	5	7	7.125	6.313	3.875	1.125	0.813	0.813	1.375	4 - 0.625	9.25	40.4	38.6
SP-25	4.875	0.625	12.5	5.5	8	8.125	6.938	4.25	1.25	0.938	0.938	1.375	6 - 0.625	10.25	52.6	53.6
SP-26	5.313	0.688	13.5	6.25	8.75	8.875	7.813	5.875	1.625	1.438	1.438	1.375	6 - 0.625	11.25	66.7	66.8
SP-27	6.063	0.75	15.5	7	10	10.125	8.688	5.5	1.5	1.563	1.5	1.375	6 - 0.625	12.75	96.5	100.0
SP-28	6.438	0.75	16.25	7.75	10.75	10.875	9.688	6.5	1.5	1.563	1.5	1.375	6 - 0.75	13.5	125.0	115.0
SP-29	7 .125	0.875	17.5	8.5	12	12.125	10.688	7	1.75	11.188	1.5	1.75	6 - 1	14.75	160.0	150.0
SP-30	8 .125	1	20.25	9.75	13.75	13.875	11.688	7.5	2	2.063	1.5	1.75	6 - 1	17	215.0	207.0
SP-31	8.875	1 .125	22.5	10.75	15	15.125	12.938	8.25	2.250	2.313	1.5	1.75	6 - 1	18.75	318.0	265.0

Bolt-On Shear Pin Accu-Torch® Sprockets

Shear Pin Sprocket Selection

1. The shear pin assembly required is determined by the shaft size. Select the smallest shear pin assembly which will accommodate the required bore. Table on page 130 contains the bore ranges and minimum sprocket sizes which allow chain clearance over the shear pin assembly flange.

2. Using one of the following formulas, compute the torque load the pin must transmit and enter the torque rating table below to obtain the proper shear pin neck diameter.

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM} \quad \text{or} \quad T = \frac{D \times CP \times 1.5}{2}$$

or T = Output of reducer x speed ratio of chain drive x 1.5

Where:

T	=	Torque in pound inches
HP	=	Horsepower at sprocket
RPM	=	Sprocket speed
D	=	Pitch diameter of sprocket
CP	=	Chain pull in pounds
1.5	=	Safety factor for starting load

Example:

1. Determine the shear pin assembly and pin neck diameter to transmit 20 horsepower at 67 RPM with a 36 tooth, No. 62 sprocket on a 2.938" shaft.

(1) Referring to Table I, shear pin assembly SP-25 is required for a 2.938" bore. The 36 tooth sprocket is well above the minimum size.

(2) Torque and neck diameter:

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM}$$

$$T = \frac{20 \times 63{,}025 \times 1.5}{67} = 28{,}200 \text{ lb.in.}$$

Referring to Table II under SP-25, a pin necked to 3⁄8" shows a torque rating of 29,810 lb. in., which exceeds the 28,200 lb. in. required.

(3) Order: 62SP36, SP-25 assembly with 2.938" bore and .375" pin neck diameter.

Shear Pin Assembly Dimensions (Inches)

Shear Pin Neck Diameter (Inches)	Torque Rating – Pound Inches												
	Shear Pin Hub Number												
	SP19	SP20	SP21	SP22	SP23	SP24	SP25	SP26	SP27	SP28	SP29	SP30	SP31
0.094	1022	1204	1323	1556	1603								
0.125	1752	2064	2268	2616	2748								
0.156	2774	3268	3591	4142	4351	4750							
0.188	3942	4944	5103	5886	6183	6750	7317						
0.219	5402	6364	6993	8066	8473	9250	10027						
0.250	7300	8600	9450	10900	11450	12500	13550	15200	17300	18400			
0.281	9052	10664	11718	13516	14198	15500	16802	18848	21452	22816			
0.313	11096	13072	14364	16568	17403	19000	20596	23140	26296	27968	30932		
0.344		15824	17388	20056	21068	23000	24932	27968	31832	33856	37440		
0.375		18920	20790	23980	25190	27500	29810	33440	38060	40480	44770	51040	
0.406			24570	28340	29170	32500	35230	39520	44980	47840	52910	60320	
0.438			28350	32700	34350	37500	41650	45600	51900	55200	61050	69600	
0.469				37060	38930	42500	46070	51680	58820	62560	69190	78880	
0.500				42728	44884	49000	53116	59584	67816	72128	79772	90944	
0.531						55000	59620	66880	76120	80960	89540	102080	
0.563						62000	67280	75392	85808	91264	100936	115072	
0.594							73220	82080	93420	99360	109890	125280	136890
0.625							82800	92720	105530	112240	124135	141520	154635
0.656								103360	117640	126120	138380	157760	172380
0.688								112480	128020	136160	150590	171680	187590
0.719									138400	147200	162800	185600	202800
0.750									152240	161920	179080	204160	223080
0.781											195360	222720	243360
0.813											211640	241280	263640
0.844											227920	259840	283920
0.875											244200	278400	304200
0.906												296960	324480
0.938												301600	329550
0.969												338720	370110
1.000												371200	405600
1.063													446160
1.125													507000

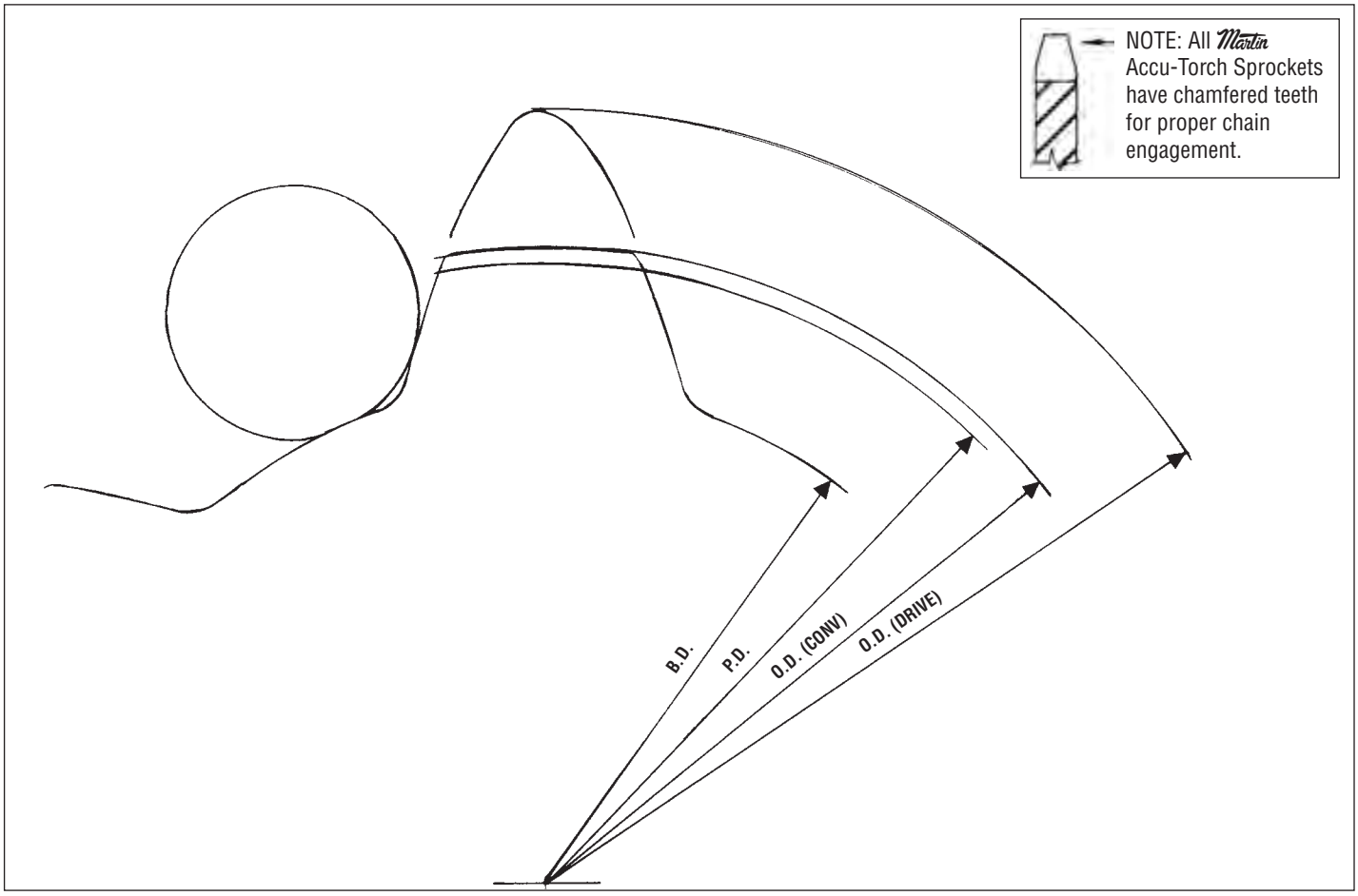
Flame Cut Sprockets for Engineering Chains



Conveyor Style Tooth for Chains:
78 — 82 — 124 — 132



Driver Style Tooth for Chains:
62 — 1568 — 1030 — 238 — 1240 — 635 — 1207



Accu-Torch Sprockets are not intended to replace cut tooth roller chain sprockets.

NOTE: For style other than Type "C" or Type "A", or Tooth Size not shown, consult factory for price. See Current List Price Sheet for Stock Pricing.

Flame Cut Sprockets for Engineering Chains

62 FLAME CUT SPROCKETS FOR CHAINS:

62 CAST, 2, 062, 62 Steel, 62A, HF 62 A, 62 H, H 62, 072, 72 1/2, 162, R 362, RR 362, R432, RR 432, 962, LXS 627, IS 620, 162 R, US 622, 378 R, 402 RX, US 620

Type C — 1.654" Pitch

PLATE THICKNESS 0.75"
ROLLER DIAMETER 0.8125"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
12	62C12	6.39	.938	2.75	4.25	3.125	15.8	62A12	.938	6.8
13	62C13	6.91	.938	3.25	4.75	3	19.4	62A13	.938	8.0
14	62C14	7.43	.938	3.25	4.75	3	20.6	62A14	.938	9.2
15	62C15	7.96	.938	3.25	4.75	3	22.0	62A15	.938	10.5
17	62C17	9	.938	3.25	4.75	3	24.0	62A17	.938	12.0
19	62C19	10.05	.938	3.25	4.75	3	28.0	62A19	.938	16.8
20	62C20	10.57	.938	3.25	4.75	3	30.0	62A20	.938	18.6
24	62C24	12.67	1.25	3.75	5.5	4.375	49.0	62A24	1.25	26.0
26	62C26	13.72	1.25	3.75	5.5	4.375	53.0	62A26	1.25	30.0
30	62C30	15.82	1.25	3.75	5.5	4.375	65.0	62A30	1.25	42.0
36	62C36	18.98	1.25	3.75	5.5	4.375	82.0	62A36	1.25	59.0
54	62C54	28.45	1.25	3.75	5.5	4.375	125.0	62A54	1.25	135.0
60	62C60	31.6	1.25	3.75	5.5	4.375	138.0	62A60	1.25	169.0

78 FLAME CUT SPROCKETS FOR CHAINS:

78, H 74, 75, H 75, H 78, H 78 LR, (14, 18 TEETH ONLY), H 78 RT, H 78 SR, H 79, 88, 188, S 188, S 78, R 588, RR 588, R 778, RR 778, 988, IS 880, 87R, IS 881, 81X, IS 882, 433 1/2, LXS 881, LXS 886, US 881, LXS 887, LXS 882, 488, XS 578, SS 188, C 188, US 278 R, US 882, 578 R, 588 R

Type C — 2.609" Pitch

PLATE THICKNESS 0.875"
ROLLER DIAMETER 0.875"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
8	78C8	6.82	.938	3.25	4.75	3.125	21	78A8	.938	9.0
9	78C9	7.63	1.25	3.438	5.25	3.875	29	78A9	1.25	11.3
10	78C10	8.44	1.25	3.438	5.25	3.875	31	78A10	1.25	13.9
11	78C11	9.26	1.25	3.438	5.25	3.875	34	78A11	1.25	16.7
12	78C12	10.08	1.25	3.438	5.25	3.875	37	78A12	1.25	19.8
13	78C13	10.90	1.25	3.75	5.5	4.5	46	78A13	1.25	23.0
14	78C14	11.72	1.25	3.75	5.5	4.5	49	78A14	1.25	27.0
15	78C15	12.55	1.5	3.75	5.5	4.5	53	78A15	1.5	30.0
17	78C17	14.20	1.5	3.75	5.5	4.5	62	78A17	1.5	39.0
19	78C19	15.85	1.5	4.5	6.5	5.375	90	78A19	1.5	50.0
21	78C21	17.51	1.5	4.5	6.5	5.375	101	78A21	1.5	61.0
24	78C24	19.99	1.5	4.5	6.5	5.375	119	78A24	1.5	79.0
25	78C25	20.82	1.5	4.5	6.5	5.375	124	78A25	1.5	84.0
28	78C28	23.31	1.5	4.5	6.5	5.375	132	78A28	1.5	105.0
30	78C30	24.96	1.5	4.5	6.5	5.375	150	78A30	1.5	123.0
35	78C35	29.11	1.5	4.5	6.5	5.375	170	78A35	1.5	166.0
40	78C40	33.25	1.5	4.938	7.25	6.75	226	78A40	1.5	216.0
42	78C42	34.91	1.5	4.938	7.25	6.75	240	78A42	1.5	240.0
46	78C46	38.31	1.5	4.938	7.25	6.75	258	78A46	1.5	286.0
54	78C54	44.87	1.5	4.938	7.25	6.75	368	78A54	1.5	302.0
60	78C60	49.85	1.5	4.938	7.25	6.75	388	78A60	1.5	322.0

78 BORED-TO-SIZE FLAME CUT SPROCKETS

Type C — 2.609" Pitch

PLATE THICKNESS 0.75"
ROLLER DIAMETER 0.8125"

Part Number	Pitch Diameter	Approximate Weight (lb)	Stock Finished Bores - Includes Keyway and 2 Setscrews						
78CS8	6.82"	21	1.438	1.938	2	2.188	2.438	2.938	—
78CS9	7.63"	29	1.438	1.938	2	2.188	2.438	2.938	—
78CS10	8.44"	31	1.438	1.938	2	2.188	2.438	2.938	3.438*
78CS11	9.26"	34	—	1.938	2	2.188	2.438	2.938	3.438*
78CS12	10.08"	37	—	1.938	2	2.188	2.438	2.938	3.438*
78CS13	10.90"	46	—	1.938	—	2.188	2.438	2.938	3.438*
78CS14	11.72"	49	—	1.938	—	2.188	2.438	2.938	3.438*

Please contact Martin if Hub OD and Length Thru Bore dimensions are critical. These parts have setscrews at 90 degrees and 180 degrees instead of over keyway and 90 degrees.

Flame Cut Sprockets for Engineering Chains

1568 FLAME CUT SPROCKETS FOR CHAINS:

AX 1568, X568, JS 3011, SS 568, XX 568, 1803 A, 1803 AB, MXS 3011, IS 3011, IS 3010, US 3011, LXS 3011, LXS 3011 M

Type C — 3.067" Pitch

PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.625"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
10	1568C10	9.92	1.5	3.75	5.5	4.25	46	1568A10	1.5	28
12	1568C12	11.85	1.5	3.75	5.5	4.25	58	1568A12	1.5	40
14	1568C14	13.78	1.5	3.75	5.5	4.25	73	1568A14	1.5	53
30	1568C30	29.34	1.5	4.5	6.5	5.75	217	1568A30	1.5	240
36	1568C36	35.19	1.5	5.375	7.5	5.875	257	1568A36	1.5	290
42	1568C42	41.04	1.5	5.5	8	6.125	407	1568A42	1.5	340
48	1568C48	46.89	1.5	5.5	8	6.125	448	1568A48	1.5	381

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1030 FLAME CUT SPROCKETS FOR CHAINS:

1030 , CHAMPION NO. 3, R 1033, R 1035, 1037, 1539, SS 40, LXS 1031, API 3, LXS 1032, SS 40 Hyp, IS 1030, IS 1031, IS 1032, IS 1037, US 1031, 1190, SXX, 1190 R, US 1032

Type C — 3.075" Pitch

PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.25"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
8	1030C8	8.05	1.25	3.25	5	3.875	31	1030A8	1.25	17.9
9	1030C9	8.99	1.25	3.25	5	3.875	36	1030A9	1.25	22.4
10	1030C10	9.95	1.25	3.25	5	3.875	40	1030A10	1.25	28.0
11	1030C11	10.91	1.5	3.75	5.5	4.25	51	1030A11	1.5	33.0
12	1030C12	11.88	1.5	3.75	5.5	4.25	57	1030A12	1.5	39.0
13	1030C13	12.85	1.5	3.75	5.5	4.25	64	1030A13	1.5	46.0
15	1030C15	14.79	1.5	4	6	5.125	91	1030A15	1.5	60.0
17	1030C17	16.73	1.5	4	6	5.125	109	1030A17	1.5	78.0
19	1030C19	18.68	1.5	4.5	6.5	5.75	137	1030A19	1.5	97.0
21	1030C21	20.63	1.5	4.5	6.5	5.75	158	1030A21	1.5	118.0
24	1030C24	23.56	1.5	4.5	6.5	5.75	176	1030A24	1.5	154.0
25	1030C25	24.53	1.5	5.375	7.5	5.875	206	1030A25	1.5	167.0
28	1030C28	27.46	1.5	5.375	7.5	5.875	236	1030A28	1.5	210.0
30	1030C30	29.42	1.5	5.375	7.5	5.875	254	1030A30	1.5	240.0
35	1030C35	34.30	1.5	5.5	8	6.125	313	1030A35	1.5	327.0
40	1030C40	39.19	1.5	5.5	8	6.125	360	1030A40	1.5	427.0
42	1030C42	41.15	1.5	5.5	8	6.125	410	1030A42	1.5	343.0
48	1030C48	47.03	1.5	6.5	9.5	6.75	501	1030A48	1.5	384.0
54	1030C54	52.89	1.5	6.5	9.5	6.75	549	1030A54	1.5	432.0
60	1030C60	58.75	1.5	7	10	7.5	642	1030A60	1.5	506.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

82 FLAME CUT SPROCKETS FOR CHAINS:

H 82, WH 82, WR 82, 103, 131, S 131, WS 82, WS 82 H, SS 131, 527 R, 527 RX, C 9103, 6131, 4103, C 131, 382

Type C — 3.075" Pitch

PLATE THICKNESS 1.125"
ROLLER DIAMETER 1.219"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
7	82C7	7.09	.813	2.938	4.5	3.875	24	82A7	.813	12.6
8	82C8	8.04	1.25	3.75	5.25	4.125	34	82A8	1.25	16
9	82C9	8.99	1.25	3.75	5.25	4.125	38	82A9	1.25	20
10	82C10	9.95	1.25	3.75	5.25	4.125	43	82A10	1.25	25
11	82C11	10.91	1.25	3.938	5.75	4.375	54	82A11	1.25	30
12	82C12	11.88	1.25	3.938	5.75	4.375	60	82A12	1.25	36
13	82C13	12.85	1.25	3.938	5.75	4.375	66	82A13	1.25	42
14	82C14	13.82	1.25	3.938	5.75	4.375	72	82A14	1.25	48
15	82C15	14.79	1.5	4.5	6.5	5.625	94	82A15	1.5	54
16	82C16	15.76	1.5	4.5	6.5	5.625	102	82A16	1.5	62
17	82C17	16.73	1.5	4.5	6.5	5.625	110	82A17	1.5	70
18	82C18	17.71	1.5	4.5	6.5	5.625	119	82A18	1.5	79

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

82 BORED-TO-SIZE FLAME CUT SPROCKETS

Type C — 3.075" Pitch

PLATE THICKNESS 1.125"
ROLLER DIAMETER 1.219"

Part Number	Pitch Diameter	Approximate Weight (lb)	Stock Finished Bores - Includes Keyway and 2 Setscrews	
82CS10	9.95"	43	2.438	2.938
82CS11	10.91"	54	2.438	2.938
82CS12	11.88"	60	2.438	2.938

Please contact Martin if Hub OD and Length Thru Bore dimensions are critical

238 FLAME CUT SPROCKETS FOR CHAINS:

RX 238, IS 3514 J, 1616 A, MXS 3514, US 3514, LXS 3514, LXS 3514 M

Type C — 3.500" Pitch

PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.75"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
10	238C10	11.33	1.5	3.75	5.5	4.25	54	238A10	1.5	35
12	238C12	13.52	1.5	3.75	5.5	4.25	70	238A12	1.5	51
14	238C14	15.73	1.5	3.75	5.5	4.25	88	238A14	1.5	60
30	238C30	33.48	1.5	4	6	5.125	312	238A30	1.5	253
36	238C36	40.16	1.5	4	6	5.125	445	238A36	1.5	370
42	238C42	46.84	1.5	5.5	8	6.125	446	238A42	1.5	379
48	238C48	53.52	1.5	5.5	8	6.125	517	238A48	1.5	450

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Flame Cut Sprockets for Engineering Chains

124 FLAME CUT SPROCKETS FOR CHAINS:

H 124, W 124, WS 124, WR 124, WH 124

Type C — 4.000" Pitch

PLATE THICKNESS 1.5"
ROLLER DIAMETER 1.5"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
6	124C6	8.00	0.938	3.25	4.75	4.625	36	124A6	0.938	21
7	124C7	9.22	1	3.938	5.75	4.75	52	124A7	1	28
8	124C8	10.45	1	3.938	5.75	4.75	61	124A8	1	37
9	124C9	11.70	1	3.938	5.75	4.75	70	124A9	1	46
10	124C10	12.94	1	3.938	5.75	4.75	79	124A10	1	55
11	124C11	14.20	1.5	4.25	6.25	4.75	95	124A11	1.5	68
12	124C12	15.45	1.5	4.25	6.25	4.75	107	124A12	1.5	80
13	124C13	16.72	1.5	4.25	6.25	4.75	120	124A13	1.5	93
14	124C14	17.98	1.5	4.25	6.25	4.75	135	124A14	1.5	108
15	124C15	19.24	1.5	4.375	6.75	6	168	124A15	1.5	124
16	124C16	20.50	1.5	4.375	6.75	6	185	124A16	1.5	141

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

124 BORED-TO-SIZE FLAME CUT SPROCKETS

Type C — 4.000" Pitch

PLATE THICKNESS 1.5"
ROLLER DIAMETER 1.5"

Part Number	Pitch Diameter	Approximate Weight (lb)	Stock Finished Bores - Includes Keyway and 2 Setscrews			
124CS9	11.70"	70	2.188	2.438	2.938	
124CS10	12.94"	79		2.438	2.938	3.438
124CS11	14.20"	95			2.938	3.438
124CS12	15.45"	107			2.938	3.438

Please contact Martin if Hub OD and Length Thru Bore dimensions are critical

1030 FLAME CUT SPROCKETS FOR CHAINS:

1240, CHAMPION NO. 4, 1244, R 1248, SS 124, API 4, LXS 1242, SS 124, 3 BAR HYPER, LXS 1245, SS 124 D, SS 124 DP, IS 1242, IS 1425

Type C — 4.063" Pitch

PLATE THICKNESS 1.75"
ROLLER DIAMETER 1.75"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
6	1240C6	8.13	0.938	2.5	4	4	34	1240A6	0.938	26
7	1240C7	9.36	1.25	3.75	5.25	4.75	51	1240A7	1.25	34
8	1240C8	10.62	1.5	4.5	6.5	5	78	1240A8	1.5	44
9	1240C9	11.88	1.5	4.5	6.5	5	89	1240A9	1.5	55
10	1240C10	13.15	1.5	4.5	6.5	5	101	1240A10	1.5	67
11	1240C11	14.42	1.5	4.5	6.5	5	115	1240A11	1.5	81
12	1240C12	15.70	1.5	5.25	7	6	140	1240A12	1.5	96
13	1240C13	16.98	1.5	5.25	7	6	155	1240A13	1.5	111
14	1240C14	18.26	1.5	5.25	7	6	174	1240A14	1.5	130
15	1240C15	19.54	1.5	5.25	7	6	192	1240A15	1.5	148
16	1240C16	20.83	1.5	5.5	8	6.25	230	1240A16	1.5	168
18	1240C18	23.40	1.5	5.5	8	6.25	275	1240A18	1.5	213
20	1240C20	25.97	1.5	5.5	8	6.25	300	1240A20	1.5	263
21	1240C21	27.26	1.5	5.5	8	6.25	319	1240A21	1.5	289
24	1240C24	31.12	1.5	5.5	8	6.25	387	1240A24	1.5	377
25	1240C25	33.42	1.5	6	9	6.25	426	1240A25	1.5	409
28	1240C28	36.29	1.5	6	9	6.25	494	1240A28	1.5	509
30	1240C30	38.87	1.5	7	10	6.75	583	1240A30	1.5	587
35	1240C35	45.33	1.5	7	10	6.75	729	1240A35	1.5	620
40	1240C40	51.78	1.5	7.5	11	7.75	932	1240A40	1.5	721
48	1240C48	62.12	1.5	7.5	11	7.75	1078	1240A48	1.5	867

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Flame Cut Sprockets for Engineering Chains

635 FLAME CUT SPROCKETS FOR CHAINS:

RO 635, B 635, X 635, 1350, 450 SX, 450 SXX, IS 4522, 1340 RX, LXS 4522 M

Type C — 4.500" Pitch

PLATE THICKNESS 1.75"
ROLLER DIAMETER 2.25"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
10	635C10	14.56	1.5	4	6.5	5	111	635A10	1.5	87
12	635C12	17.39	1.5	4	6.5	5	148	635A12	1.5	119
14	635C14	20.22	1.5	4	6.5	5	188	635A14	1.5	159
30	635C30	43.05	1.5	5.375	7.5	5.875	592	635A30	1.5	542
36	635C36	51.63	1.5	5.375	7.5	5.875	764	635A36	1.5	715
42	635C42	60.22	1.5	6.5	9.5	7.25	884	635A42	1.5	776
48	635C48	68.81	1.5	7.5	11	7.75	1174	635A48	1.5	963

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1207 FLAME CUT SPROCKETS FOR CHAINS:

RX 1207, RO 1205, A 1302, JS 5031, 1510 XX, 1602 A, 1602 AA, US 5201 A, LXS 5028, LXS 6038 M, MXS 5028

Type C — 5.000" Pitch

PLATE THICKNESS 2.25"
ROLLER DIAMETER 2.5"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
10	1207C10	16.18	1.5	4.5	6.5	5.5	160	1207A10	1.5	131
12	1207C12	19.32	1.5	4.5	6.5	5.5	215	1207A12	1.5	187
14	1207C14	22.47	1.5	5.375	7.5	5.875	298	1207A14	1.5	254
30	1207C30	47.84	1.5	6	9	6.75	809	1207A30	1.5	730
36	1207C36	57.37	1.5	7	10	8.5	1161	1207A36	1.5	1025
42	1207C42	66.91	1.5	7	10	8.5	1245	1207A42	1.5	1109
48	1207C48	76.45	1.5	7.5	11	10.25	2005	1207A48	1.5	1794

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

132 FLAME CUT SPROCKETS FOR CHAINS:

C 132, A 132, A 132 WS, WS 132, C 132 M, C 132 W, SX 150, SXA 150, 150 X, 6150, W 157, WH 157, WR 157

Type C — 6.050" Pitch

PLATE THICKNESS 2.75"
ROLLER DIAMETER 1.719"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
6	132C6	12.10	1.5	4.5	6.5	6	119	132A6	1.5	90
7	132C7	13.95	1.5	4.5	6.5	6	149	132A7	1.5	120
8	132C8	15.81	1.5	4.5	6.5	6	182	132A8	1.5	153
9	132C9	17.69	1.5	5.375	7.5	6.375	236	132A9	1.5	192
0	132C10	19.58	1.5	5.375	7.5	6.375	278	132A10	1.5	235
11	132C11	21.47	1.5	5.375	7.5	6.375	326	132A11	1.5	283
12	132C12	23.38	1.5	5.375	7.5	6.375	378	132A12	1.5	334

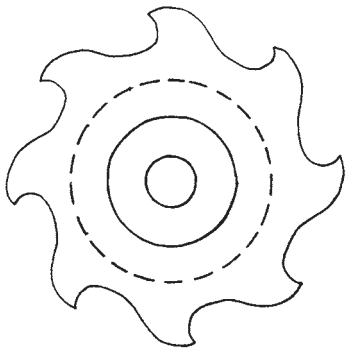
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Veneer Dryer Parts

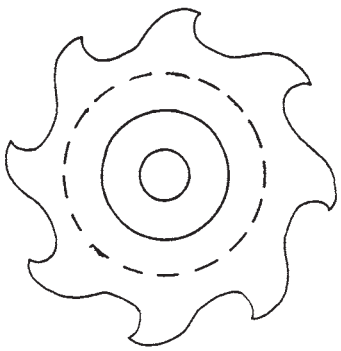
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Hooked Tooth Sprocket
B Style (Right and Left Hand)

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
8	81X-B8RH	6.5	B	1	1.5	2.375	1.625
8	81X-B8LH	6.5	B	1	1.5	2.375	1.625



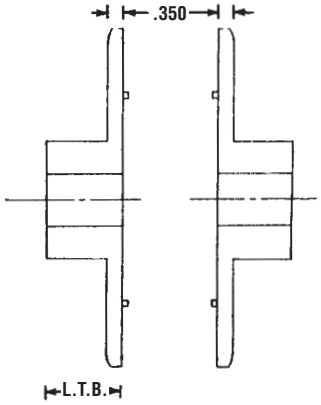
(RH) Right Hand



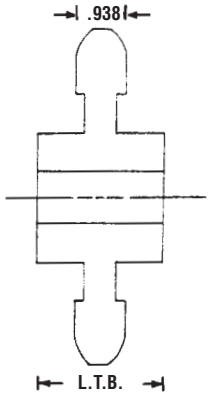
(LH) Left Hand

C Style

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
7	81X-C7	5.75	C	.75	1.5	2.375	2.375
8	81X-C8	6.75	C	.75	1.5	2.375	2.375
9	81X-C9	7.438	C	.75	1.5	2.375	2.375



Type B
(Cast Iron)

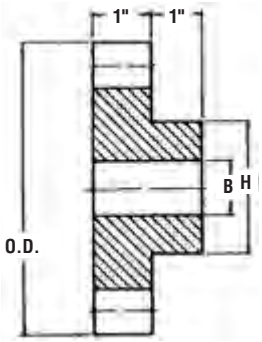


Type C
(Cast Iron)

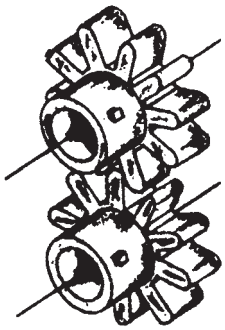


Star Gear

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
10	SG510	4.484	B	1	1.5	2.375	2



Type B
(Cast Iron)



MTO Engineered Class Cast Iron Sprockets





Cast Split Sprockets

Hunting Tooth Sprockets

Rivetless Chain Sprocket

Drag Chain Sprockets

- Plain
- Flanged

Traction Wheels

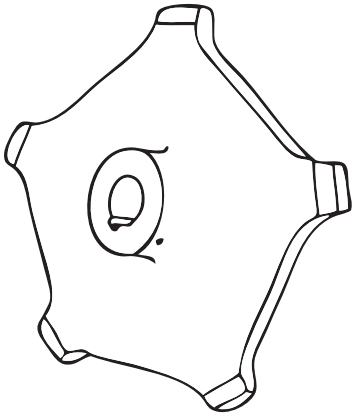
- Plain
- Flanged

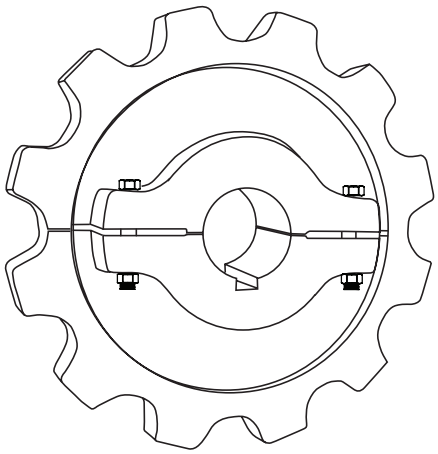
Plate Body Sprockets

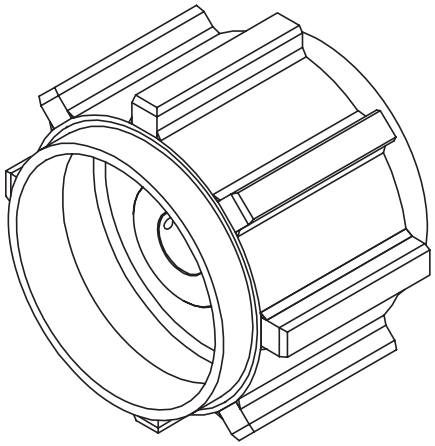
Chain Saver Rim Sprockets

Adjustable Hub Sprockets

Chilled Rim Sprockets







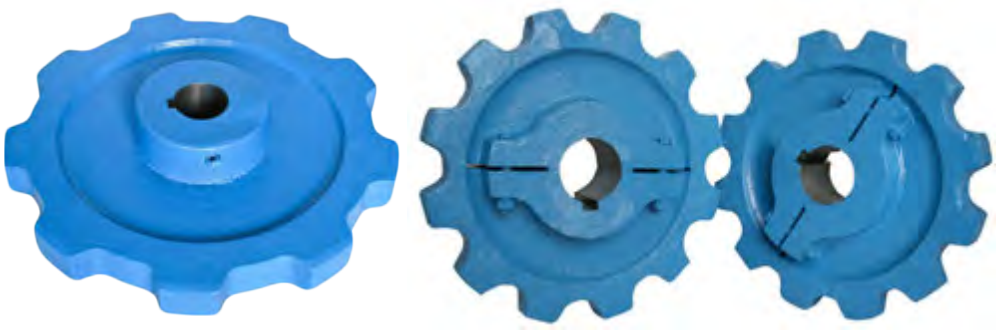
Sprockets Available to fit Standard Chain Sizes

55	103	H121	197	678	856	998
D60	H104	SD121	348	698	859	1030
62	W-106	WD-122	348	CS720S	F912R	1036
67	S-110	WD-123	458	720S	E922	1113
78	WD-110	WD-124	468	730	F922	1120
W-78	111SP	130	WD-480	A730	925R	1131
94R	111	132	483	CS730	933	F1222
95R	WD-112	183	520	823	951	2124
102B	WD-116	188	531	825	D963R	2180
H102	WD-119	194	625R	830	E963R	4850
102.5	WD-120	196	667	844	F963R	9250

Not all sprockets fit all chain sizes, see factory for availability.

Cast Iron Sprocket Types

Now Stocking Select Sizes - Call Martin for Availability



C 830 C 9 CR S

Cast Iron	Chain	Sprocket Type	No. of Teeth	Special Instructions
CWD if Wide Drag	Example: 132 - 82 102B - 55 78 - 131	A - Plate Only B - Hub One Side C - Hub Both Sides D - Detachable Hubs		CR - Chilled Rim S - Split CS - Chain Saver F - Flanged

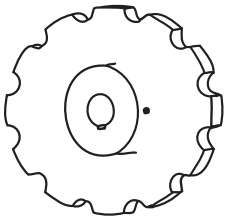


Plate Body

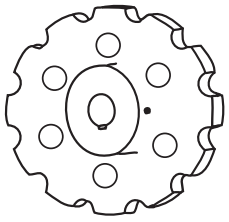
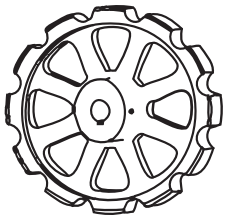
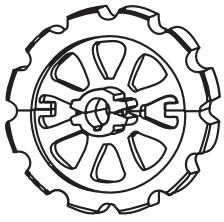


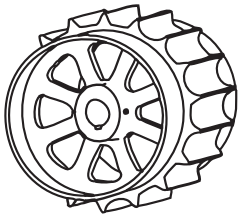
Plate Body with Lightening Holes



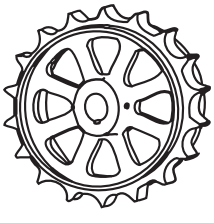
Arm Body



Split Arm Body



Drum Flagged Arm Body



Flanged Rim

SPROCKET STYLES

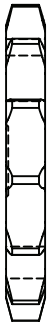
Cast Arm Body is often used in larger diameter sprockets. The arms are advantageous because they reduce the weight as well as the cost.

Cast Split (Arm or Plate) Body- The split style sprocket eases maintenance and installation. The sprocket can be removed without having to disassemble an entire system.

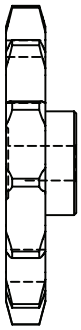
Cast Plate Body style is primarily used in smaller diameter sprockets when the arm body style is unnecessary. Larger diameter sprockets only use this plate body style when the torque is beyond the limits of the arm body style.

Special Sprockets – Martin also offers special made-to-order sprockets such as the flanged-rim sprocket (image to the left).

Cast Iron Sprocket Types



Type A



Type B

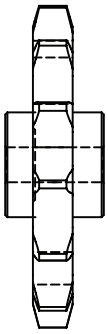
Hub Types
Cast Iron Sprockets are offered in different hub types including Type A, B, and C.

Type A
An A Style Sprocket is a flat sprocket with no hub extension on either side.

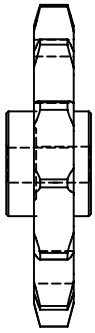
Type B
A B Style Sprocket is a sprocket with a hub extension on one side.

Type C
A C Style Sprocket is a sprocket with a hub extension on both sides.

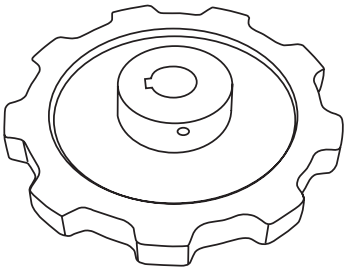
Type C Offset hubs are the same as a "Type C", however the hubs are slightly off center.



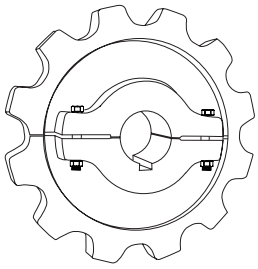
Type C



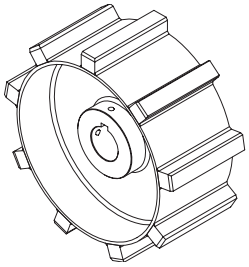
Type C Offset



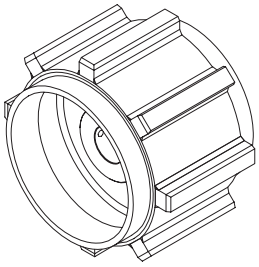
Non-Split Engineering Class Sprockets These sprockets can be supplied in various cast materials, with or without hardened teeth.



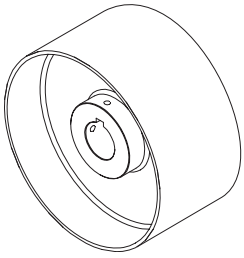
Split Sprockets are made in one piece, machined, then split into two halves after machining. The two halves can then be bolted onto the shaft without removing the shaft or the bearings from the installation. Also available in Chilled Rim.



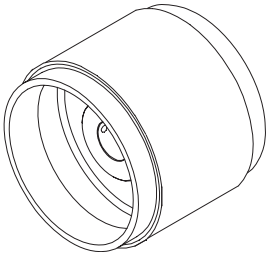
Drag Chain Sprockets are of drum type design with full width teeth. There sprockets are available plain, as shown here, or drum flanged as shown below. All types have been redesigned to provide additional wear life on the welded steel drag chains that have largely replaced malleable types.



Drum Flanged Drag Chain Sprockets have side extension flanges extending from below the root line. These flanges are used with refuse over the end of conveyors and to serve as a guard if chains jump sprockets or traction wheels.

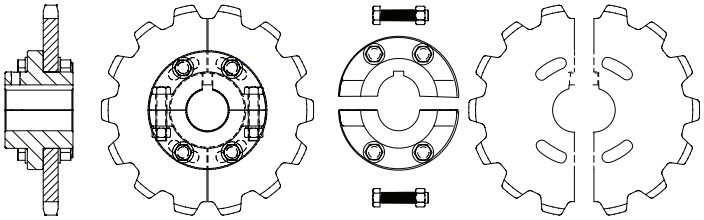


Drag Chain Traction Wheels are identical to sprockets but have no teeth. They are commonly used to turn chains at the ends of conveyors or to increase chain wrap in "S" Wrap" drive designs. They are available plain (left) or drum flanged.

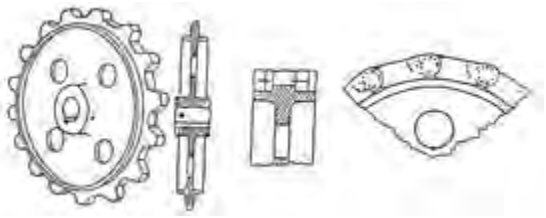


Drum Flanged Traction Wheels are used with drag chains either at the discharge end of the conveyor to guide the refuse over the end, or as a chain guard. Flanges on drag chain sprockets and traction wheels are available in many different lengths.

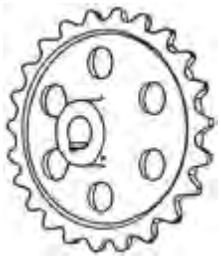
Cast Iron Sprocket Types



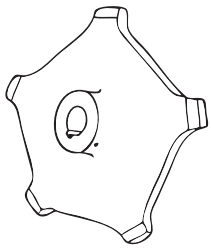
Adjustable Hub Sprockets are designed for use in multi-strand conveyors using top carriers or flights, where alignment of adjacent strands is a problem. The hub allows the chain to be moved forward or backward several inches as conditions in the conveyor require. The adjustable sprockets are available in solid or split construction.



Chainsaver Rims are short flanges below the root line of the sprocket which make contact with the sidebars of the chain. The rims help support the chain and keep the chain running on the true pitch line of the sprocket. Chainsaver Rims are particularly advantageous when used on elevator headshaft sprockets handling heavy or abrasive loads, and in sewage treatment applications where long, unsupported strands are common.



Hunting Tooth Sprockets are designed with an odd number of teeth, with the pitch of the teeth 1/2 the pitch of the chain. This allows each tooth to contact the chain only every other revolution. Wear life of the sprocket is effectively doubled. A Chainsaver Rim is frequently added to these sprocket to give even longer life.



Drop Forged or Rivetless Chain Sprockets are of skip tooth design, since the block link of these chains is solid. Sprockets are available for all popular drop forged chains in both regular and X series.

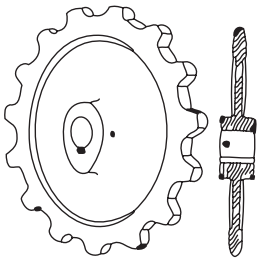


Plate Body with Cam-Shaped Hubs
All sprockets are produced with plate type bodies as shown. Few spoked sprockets are offered due to strength limitations of this type design. As space permits, many smaller sprockets are made with cam-shaped hubs, which give additional strength over the keyway, but reduces weight compared to conventional round hubs of the same diameter.

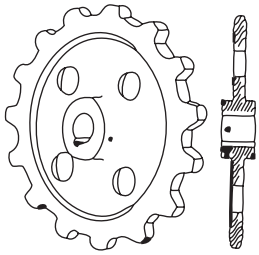
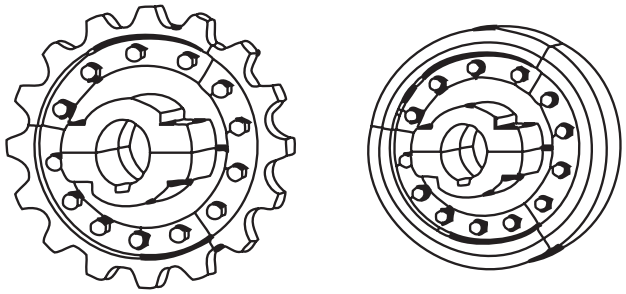
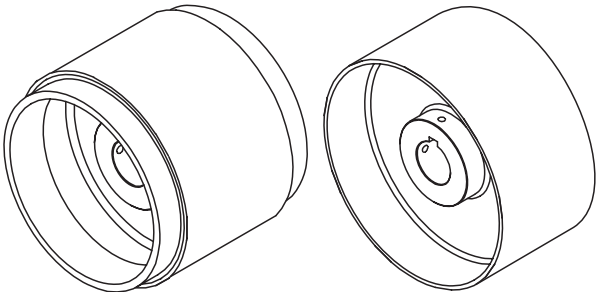


Plate body with Lightening Holes
Where space permits, larger sprockets are made with lightening holes cast through the body to reduce weight and facilitate handling. Standard round hubs are used on most larger sprockets, with diameters of hubs as appropriate according to chain type and ANSI hub specification .



Segmental Sprockets - Martin offers segmental sprockets with either solid or split hub bodies. Segmental sprockets greatly reduce the labor costs as well as the downtime associated with replacing worn standard type sprockets. Worn segments can be replaced by simply removing and replacing segments only, eliminating the need to remove the shaft, and or bearing assemblies, as well as the need to realign the hub.



Traction Wheels - Traction Wheels are offered in solid or segmental construction. They are often used in bucket elevators and can withstand abrasive materials.

INFORMATION NEEDED TO QUOTE / ORDER

The following information should be given when ordering sprockets or traction wheels:

1. **QUANTITY** _____
   (Number of sprockets required)

2. **CHAIN** _____
   (Number and type to be used)

3. **NO. OF TEETH** _____
   (The effective number of teeth should be specified when ordering a double duty, hunting tooth or skip tooth sprocket)

4. **PITCH DIAMETER** _____
   (For traction wheels, the outside diameter should be specified in place of the pitch diameter)

5. **MATERIAL** _____
   (Specify Chilled Rim if hardened teeth required)

6. **CONSTRUCTION** _____
   (Standard, split or segmental construction should be specified)

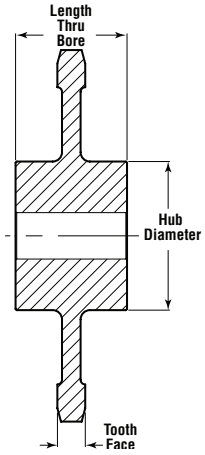
7. **TYPE** _____
   (Standard, hunting tooth, double duty, chain saver, etc., must be specified. Chain saver sprockets increase their life by having flanges on each side of the teeth so that the sidebar engages the flange, thereby distributing the wear over a greater area)

8. **BORE** _____
   (Sprockets and traction wheels are usually furnished with specific bo es)

9. **HUB STYLE** _____
   (All hubs are furnished (C style) unless specified otherwise)

10. **KEYWAY AND SETSCREWS** _____
    (Standard straight keyways are finished with one setsc ew over the keyway and one at 90°)

Cast Iron Sprocket



55 CAST TOOTH SPROCKETS — PITCH 1.631

FOR CHAINS NO.: 55, C55, SS55, C55A, C55B, C55D, C55L

Tooth Face at Pitch Line: 0.688 — Roller Diameter: 0.718

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C55C5	2.77	C	2.00	2.00	0.94	2.0
6	C55C6	3.26	C	2.00	2.00	0.94	2.0
7	C55B7	3.76	B	2.50	2.00	1.63	3.0
8	C55B8	4.26	B	2.50	2.00	1.63	4.0
9	C55C9	4.76	C	3.00	2.00	1.94	5.0
10	C55C10	5.26	C	3.50	2.00	2.19	5.0
11	C55C11	5.77	C	4.50	3.00	2.88	6.0
12	C55C12	6.30	C	4.50	3.00	2.88	10.0
13	C55C13	6.80	C	4.50	3.00	2.88	10.0
14	C55C14	7.31	C	4.50	3.00	2.88	12.0
15	C55C15	7.83	C	4.50	3.00	2.88	13.0
16	C55C16	8.34	C	4.50	3.00	2.88	13.0
17	C55C17	8.85	C	4.50	3.00	2.88	17.0
18	C55C18	9.39	C	4.50	3.00	2.88	20.0
19	C55C19	9.92	C	4.50	3.00	2.88	20.0
20	C55C20	10.43	C	6.00	3.50	2.88	20.0
21	C55C21	10.94	C	6.00	3.50	4.00	23.0
22	C55C22	11.43	C	6.00	3.50	4.00	24.0
23	C55C23	11.97	C	6.00	3.50	4.00	29.0
24	C55C24	12.47	C	6.00	3.50	4.00	32.0
25	C55C26	13.00	C	8.00	4.00	6.00	31.0
27	C55C27	14.07	C	8.00	4.00	6.00	38.0
28	C55C28	14.54	C	8.00	4.00	6.00	42.0
29	C55C29	15.08	C	8.00	4.00	6.00	26.0
30	C55C30	15.59	C	8.00	4.00	6.00	54.0
31	C55C31	16.11	C	8.00	4.00	6.00	58.0
32	C55C32	16.63	C	8.00	4.00	6.00	63.0
34	C55C34	17.67	C	8.00	4.00	6.00	31.0
35	C55C35	18.20	C	8.00	4.00	6.00	69.0
36	C55C36	18.70	C	8.00	4.00	6.00	77.0
38	C55C38	19.75	C	8.00	4.00	6.00	35.0
40	C55C40	20.79	C	10.00	4.00	8.00	37.0
41	C55C41	21.31	C	10.00	4.00	8.00	36.0
48	C55C48	24.94	C	10.00	4.00	8.00	45.0
50	C55C50	25.98	C	10.00	4.00	8.00	47.0
54	C55C54	28.00	C	10.00	4.00	8.00	50.0

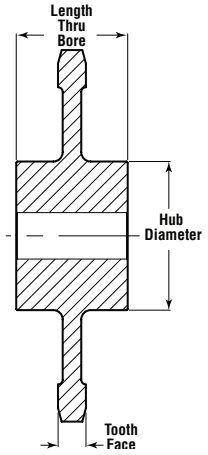
62 CAST TOOTH SPROCKETS — PITCH 1.654 CHILLED RIM

FOR CHAINS NO.: 62, 072, H62, 362

Tooth Face at Pitch Line: 0.812 — Roller Diameter: 0.812

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C62C5CR	2.81	C	1.38	1.25	.75	1.5
6	C62C6CR	3.32	C	1.75	1.25	0.94	3.0
7	C62C7CR	3.82	C	2.50	2.00	1.62	2.0
8	C62C8CR	4.32	C	3.00	2.00	1.81	4.0
9	C62C9CR	4.84	C	3.00	2.00	1.81	5.0
10	C62C10CR	5.35	C	4.00	3.00	2.50	9.0
11	C62C11	5.87	C	4.00	3.00	2.50	9.0
12	C62C12	6.39	C	4.75	3.50	2.50	7.0
13	C62C13	6.91	C	4.75	3.50	3.00	14.0
14	C62C14	7.43	C	4.75	3.50	3.00	24.0
15	C62C15	7.96	C	5.00	3.50	3.50	26.0
16	C62C16	8.48	C	5.00	3.50	3.50	25.0
17	C62C17	9.00	C	5.00	3.50	3.50	26.0
18	C62C18	9.53	C	5.00	3.50	3.50	28.0
19	C62C19	10.05	C	5.00	3.50	3.50	22.0
20	C62C20	10.57	C	5.50	4.00	4.00	24.0
21	C62C21	11.10	C	5.50	4.00	4.00	39.0
22	C62C22	11.63	C	5.50	4.00	4.00	27.0
23	C62C23	12.15	C	5.50	4.00	4.00	30.0
24	C62C24	12.67	C	5.50	4.00	4.00	36.0
25	C62C25	13.20	C	5.50	4.50	4.00	36.0
26	C62C26	13.72	C	5.50	4.50	4.00	36.0
27	C62C27	14.25	C	5.50	4.50	4.00	58.0
28	C62C28	14.77	C	5.50	4.50	4.00	60.0
29	C62C29	15.30	C	5.50	4.50	4.00	31.6
30	C62C30	15.82	C	6.00	4.50	4.50	44.0
32	C62C32	16.88	C	6.00	4.50	4.50	48.0
33	C62C33	17.44	C	6.00	4.50	4.50	50.0
34	C62C34	17.93	C	6.00	4.50	4.50	77.0
36	C62C36	18.98	C	6.00	4.50	4.50	90.0
38	C62C38	20.03	C	6.00	5.00	4.50	93.0
39	C62C39	20.55	C	6.00	5.00	4.50	61.0
40	C62C40	21.07	C	6.00	5.00	4.50	40.2
41	C62C41	21.61	C	6.00	5.00	4.50	65.0
42	C62C42	22.13	C	6.00	5.00	4.50	72.0
43	C62C43	22.66	C	8.00	5.50	6.00	74.0
45	C62C45	23.71	C	8.00	5.50	6.00	77.0
46	C62C46	24.24	C	8.00	5.50	6.00	80.0
47	C62C47	24.77	C	8.00	5.50	6.00	48.6
48	C62C48	25.29	C	8.00	5.50	6.00	83.0
49	C62C49	25.82	C	8.00	5.50	6.00	84.0
54	C62C54	28.45	C	8.00	5.50	6.00	93.0
60	C62C60	31.60	C	8.00	5.50	6.00	71.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



67 CAST TOOTH SPROCKETS — PITCH 2.308 CHILLED RIM

FOR CHAINS NO.: 57, 67, 77, 467, 477, C77, H-60, SM477, 967, 977

Tooth Face at Pitch Line: 0.687 — Roller Diameter: 0.812

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C67C5CR	3.93	C	2.25	1.75	1.19	4.0
6	C67C6CR	4.62	C	3.00	2.00	1.81	6.0
7	C67C7CR	5.32	C	3.50	3.00	2.19	8.0
8	C67C8CR	6.03	C	4.00	3.00	2.50	10.0
9	CRC67C9	6.75	C	4.50	3.00	2.88	12.0
10	C67C10CR	7.46	C	4.50	3.00	2.88	14.0
11	C67C11CR	8.19	C	4.50	3.00	2.88	18.0
12	C67C12CR	8.92	C	4.50	3.00	2.88	20.0
13	C67C13CR	9.64	C	4.50	3.00	2.88	23.0
14	C67C14CR	10.37	C	5.00	3.00	3.50	22.0
15	C67C15CR	11.10	C	5.00	3.5	3.50	28.0
16	C67C16CR	11.83	C	5.00	3.5	3.50	30.0
17	C67C17CR	12.56	C	6.00	3.5	4.50	31.0
18	C67C18CR	13.29	C	6.00	3.5	4.50	35.0
19	C67C19CR	14.02	C	6.00	3.5	4.50	43.0
20	C67C20CR	14.75	C	6.00	4.00	4.50	51.0
21	C67C21CR	15.43	C	6.00	4.00	4.50	55.0
22	C67C22CR	16.16	C	6.00	4.00	4.50	58.0
23	C67C23CR	16.89	C	6.00	4.00	4.50	62.0
24	C67C24CR	17.68	C	6.00	4.00	4.50	67.0
25	C67C25CR	18.35	C	8.00	4.50	6.00	53.0
26	C67C26CR	19.14	C	8.00	4.50	6.00	54.0
27	C67C27CR	19.89	C	8.00	4.50	6.00	59.0
28	C67C28CR	20.61	C	8.00	4.50	6.00	34.0
30	C67C30CR	22.07	C	8.00	4.50	6.00	67.0
32	C67C32CR	23.54	C	8.00	4.50	6.00	23.0
33	C67C33CR	24.27	C	8.00	4.50	6.00	75.0
34	C67C34CR	25.00	C	8.00	4.50	6.00	48.0
35	C67C35CR	25.74	C	8.00	4.50	6.00	80.0
36	C67C36CR	26.47	C	8.00	4.50	6.00	84.0
38	C67C38CR	27.94	C	10.00	6.00	8.00	88.0
40	C67C40CR	29.40	C	10.00	6.00	8.00	94.0
44	C67C44CR	32.34	C	10.00	6.00	8.00	120.0
45	C67C45CR	33.06	C	10.00	6.00	8.00	125.0
48	C67C48CR	35.27	C	10.00	6.00	8.00	115.0
60	C67C60CR	44.08	C	10.00	6.00	8.00	148.0

78 CAST TOOTH SPROCKETS — PITCH 2.609

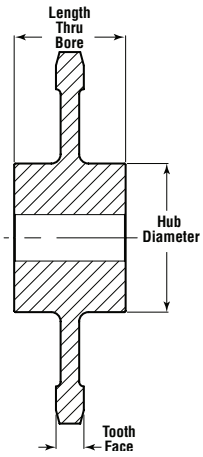
FOR CHAINS NO.: 75, 78, 88, H78, H79, BRH, 188, C188, SS188, 78, MXS882, MSR-1288, 433-1/2, H74, H75, H78A, H78B, H78SR, BRH188, MW188RT, 488, SS578, 81X

Tooth Face at Pitch Line: .937 — Roller Diameter: 0.875

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	78C5	4.44	C	2.50	2.50	1.19	5
6	78C6	5.22	C	3.50	2.75	1.44	6
7	78C7	6.01	C	4.00	3.00	2.44	11
8	78C8	6.82	C	4.75	3.12	2.81	15
9	78C9	7.63	C	5.25	3.88	3.25	16
10	78C10	8.44	C	5.25	3.88	3.25	19
11	78C11	9.26	C	5.25	3.88	3.25	23
12	78C12	10.08	C	6.00	3.88	3.25	28
13	78C13	10.90	C	6.00	4.50	3.31	36
14	78C14	11.72	C	6.00	4.50	3.31	39
15	78C15	12.55	C	6.00	4.50	3.31	40
16	78C16	13.37	C	6.00	4.50	3.31	53
17	78C17	14.20	C	6.00	4.50	3.31	55
18	78C18	15.02	C	6.00	4.50	4.06	61
19	78C19	15.85	C	6.50	5.38	4.06	64
20	78C20	16.68	C	6.50	5.38	4.06	67
21	78C21	17.50	C	6.50	5.38	4.06	79
22	78C22	18.33	C	6.50	5.38	4.06	89
23	78C23	19.16	C	6.50	5.38	4.06	91
24	78C24	19.99	C	7.00	5.38	4.06	99
25	78C25	20.81	C	7.00	5.38	4.06	107
26	78C26	21.64	C	7.00	5.38	4.06	111
27	78C27	22.47	C	7.00	5.38	4.06	112
28	78C28	23.30	C	7.00	5.38	4.06	114
29	78C29	24.05	C	7.00	5.38	4.06	116
30	78C30	24.96	C	7.00	5.38	4.06	119
31	78C31	25.79	C	7.00	5.38	4.06	123
32	78C32	26.62	C	7.00	5.38	4.06	130
33	78C33	27.38	C	7.00	5.38	4.06	136
34	78C34	28.28	C	7.00	5.38	4.06	141
35	78C35	29.11	C	7.00	5.38	4.06	146
36	78C36	29.93	C	7.00	5.38	4.06	153
38	78C38	31.60	C	7.00	5.38	4.06	162
39	78C39	32.42	C	7.00	5.38	4.06	170
40	78C40	33.25	C	7.25	6.75	4.62	176
41	78C41	34.08	C	7.25	6.75	4.62	180
42	78C42	34.91	C	7.25	6.75	4.62	193
43	78C43	35.65	C	7.25	6.75	4.62	197
44	78C44	36.57	C	7.25	6.75	4.62	202
45	78C45	37.31	C	7.25	6.75	4.62	212
46	78C46	38.23	C	7.25	6.75	4.62	221
48	78C48	38.89	C	7.25	6.75	4.62	249
54	78C54	44.87	C	7.25	6.75	4.62	265

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



95R CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 4013, 1120, 1520, LXS4013, MSR 4013, 95R, 1520C, SS1120, RR1120, RS4013

Tooth Face at Pitch Line: .687 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C95RC5CR	6.81	C	4.50	3.00	2.50	12.0
6	C95RC6CR	8.00	C	5.00	3.00	3.00	14.0
7	C95RC7CR	9.22	C	6.00	3.00	4.00	18.0
8	C95RC8CR	10.45	C	6.00	3.00	4.00	24.0
9	C95RC9CR	11.70	C	6.00	3.00	4.00	30.0
10	C95RC10CR	12.94	C	6.00	3.00	4.00	40.0
11	C95RC11CR	14.19	C	6.00	3.00	4.00	45.0
12	C95R12CR	15.45	C	6.00	3.00	4.00	61.0
14	C95RC14CR	17.98	C	6.00	3.00	4.00	76.0
15	C95RC15CR	19.24	C	7.00	4.00	5.00	86.0
18	C95RC18CR	23.04	C	8.00	5.00	6.00	115.0
19	C95RC19CR	24.30	C	8.00	5.00	6.00	125.0
22	C95RC22CR	28.11	C	8.00	5.00	6.00	165.0

94R CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 4019, SS4, 4, 40SP, 94R, LXS4019

Tooth Face at Pitch Line: .750 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C95RC5CR	6.81	C	4.50	3.00	2.50	12.0
6	C95RC6CR	8.00	C	5.00	3.00	3.00	14.0
7	C95RC7CR	9.22	C	6.00	3.00	4.00	18.0
8	C95RC8CR	10.45	C	6.00	3.00	4.00	24.0
9	C95RC9CR	11.70	C	6.00	3.00	4.00	30.0
10	C95RC10CR	12.94	C	6.00	3.00	4.00	40.0
11	C95RC11CR	14.19	C	6.00	3.00	4.00	45.0
12	C95R12CR	15.45	C	6.00	3.00	4.00	61.0
14	C95RC14CR	17.98	C	6.00	3.00	4.00	76.0
15	C95RC15CR	19.24	C	7.00	4.00	5.00	86.0
18	C95RC18CR	23.04	C	8.00	5.00	6.00	115.0
19	C95RC19CR	24.30	C	8.00	5.00	6.00	125.0
22	C95RC22CR	28.11	C	8.00	5.00	6.00	165.0

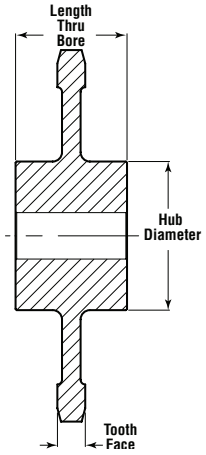
102B CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.:A102B, S102B, C102B, SS102B, 6102B, C102B, ER102B, SBS102B

Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C102BC6CR	8.00	C	6.00	4.00	3.94	33.0
7	C102BC7CR	9.22	C	6.00	4.00	3.94	44.0
8	C102BC8CR	10.45	C	6.50	4.00	4.44	47.0
9	C102BC9CR	11.70	C	7.00	5.00	4.56	60.0
10	C102BC10CR	12.94	C	7.00	5.00	4.56	68.0
11	C102BC11CR	14.20	C	7.00	5.00	4.56	72.0
12	C102BC12CR	15.45	C	7.00	5.00	4.56	91.0
13	C102BC13CR	16.71	C	7.00	5.00	4.56	107.0
14	C102BC14CR	17.98	C	7.00	5.00	4.56	110.0
15	C102BC15CR	19.24	C	7.00	5.00	4.56	122.0
16	C102BC16CR	20.50	C	7.00	5.00	4.56	135.0
17	C102BC17CR	21.76	C	7.00	5.00	4.56	145.0
18	C102BC18CR	23.04	C	7.00	5.00	4.56	130.0
19	C102BC19CR	24.30	C	7.00	5.00	4.50	170.0
20	C102BC20CR	25.57	C	10.00	6.00	6.00	175.0
21	C102BC21CR	26.84	C	10.00	6.00	6.00	185.0
22	C102BC22CR	28.11	C	10.00	6.00	6.00	194.0
24	C102BC24CR	30.65	C	10.00	6.00	6.00	214.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



103 CAST TOOTH SPROCKETS — PITCH 3.075

FOR CHAINS NO.: 103, SBO2103, C9103, WH9103HD, SCA9103, C131, ER131, SBS131, WH82

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 1.218

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C103C6CR	6.15	C	4.00	3.00	1.94	13.0
7	C103C7CR	7.09	C	4.00	3.00	2.69	23.0
8	C103C8CR	8.04	C	5.50	4.00	3.62	24.0
9	C103C8CR	8.99	C	5.50	4.00	3.62	29.0
10	C103C10CR	9.95	C	6.00	4.00	4.00	29.0
11	C103C11CR	10.91	C	6.00	4.00	4.00	33.0
12	C103C12CR	11.88	C	6.50	4.00	4.50	41.0
13	C103C13CR	12.85	C	6.50	4.00	4.50	48.0
14	C103C14CR	13.82	C	6.50	4.00	4.50	49.0
15	C103C15CR	14.79	C	6.50	4.00	4.50	51.0
16	C103C16CR	15.76	C	6.50	4.00	4.50	76.0
17	C103C17CR	16.74	C	6.50	4.00	4.50	73.0
18	C103C18CR	17.71	C	6.50	4.00	4.50	76.0
19	C103C19CR	18.68	C	7.00	5.00	4.56	93.0
20	C103C20CR	19.66	C	7.00	5.00	4.56	100.0
21	C103C21CR	20.63	C	7.00	5.00	4.56	114.0
22	C103C22CR	21.61	C	7.00	5.00	4.56	122.0
23	C103C23CR	22.58	C	7.00	5.00	4.56	131.0
24	C103C24	23.56	C	7.00	5.00	4.56	121.0
25	C103C25	24.53	C	7.00	5.00	4.56	120.0
26	C103C26	25.51	C	7.00	5.00	4.56	151.0
27	C103C27	26.49	C	7.00	5.00	4.56	157.0
28	C103C28	27.49	C	8.00	6.00	6.00	164.0
29	C103C29	28.44	C	8.00	6.00	6.00	170.0
30	C103C30	29.42	C	8.00	6.00	6.00	177.0
31	C103C31	30.39	C	8.00	6.00	6.00	184.0
32	C103C32	31.37	C	8.00	6.00	6.00	132.0
33	C103C33	32.35	C	8.00	6.00	6.00	197.0
34	C103C34	33.33	C	8.00	6.00	6.00	142.0
35	C103C35	34.30	C	8.00	6.00	6.00	210.0
36	C103C36	35.28	C	8.00	6.00	6.00	216.0
38	C103C38	37.24	C	8.00	6.00	6.00	230.0
40	C103C40	39.19	C	10.00	6.00	8.00	243.0
42	C103C42	41.15	C	10.00	6.00	8.00	256.0
44	C103C44	43.11	C	10.00	6.00	8.00	269.0
48	C103C48	47.02	C	10.00	6.00	8.00	295.0
49	C103C49	48.00	C	10.00	6.00	8.00	301.0

H102 CAST TOOTH SPROCKETS — PITCH 5.00

FOR CHAINS NO.: H102, WD102, WDH102

Tooth Face at Pitch Line: .625 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD102C6	10.00	C	6.00	7.25	4.00	65.0
7	CWD102C7	11.52	C	6.00	7.25	4.00	80.0
8	CWD102C8	13.07	C	6.50	7.25	4.50	122.0
8	CWD102C8F	13.07	C	6.50	7.25	4.50	160.0
9	CWD102C9	14.62	C	7.00	8.00	5.00	140.0
10	CWD102C10	16.18	C	7.00	8.00	5.00	143.0
11	CDW102C11	17.75	C	7.00	8.00	5.00	165.0
12	CDW102C12	19.32	C	7.50	8.00	5.50	212.0
13	CDW102C13	20.89	C	7.50	8.00	5.50	245.0

102.5 CAST TOOTH SPROCKETS — PITCH 4.040

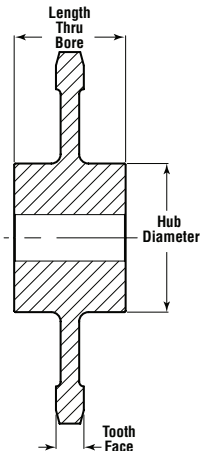
FOR CHAINS NO.: A102-1/2, S102-1/2, C102-1/2, SS102-1/2, C102.5, ER102.5, SBS102.5

Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.375

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C102.5C6	8.08	C	5.00	3.50	3.94	30.0
8	C102.5C8	10.56	C	6.00	4.00	4.44	55.0
9	C102.5C9	11.81	C	6.00	4.00	5.44	62.0
10	C102.5C10	13.07	C	6.00	4.00	5.94	62.0
11	C102.5C11	14.34	C	6.00	4.00	5.94	76.0
12	C102.5C12	15.61	C	6.00	4.00	5.94	106.0
13	C102.5C13	16.88	C	6.00	4.00	5.94	85.0
14	C102.5C14	18.16	C	6.00	4.00	5.94	94.0
15	C102.5C15	19.43	C	6.00	4.00	5.94	105.0
16	C102.5C16	20.71	C	8.00	5.00	6.00	112.0
17	C102.5C17	21.98	C	8.00	5.00	6.00	122.0
19	C102.5C19	24.55	C	8.00	5.00	6.00	140.0
20	C102.5C20	25.83	C	10.00	6.00	8.00	150.0
22	C102.5C22	28.39	C	10.00	6.00	8.00	175.0
24	C102.5C24	30.95	C	10.00	6.00	8.00	190.0
25	C102.5C25	32.23	C	10.00	6.00	8.00	210.0
26	C102.5C26	33.33	C	10.00	6.00	8.00	230.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information.
All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



H104 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: H104, 6104, H104, WDH104

Tooth Face at Pitch Line: 4.00 — Roller Diameter: 1.50

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	CWD104C5	10.21	C	6.00	4.75	4.00	80.0
6	CWD104C6	12.00	C	6.00	4.75	4.00	91.0
7	CWD104C7	13.83	C	6.00	4.75	4.00	120.0
7	CWD104C7*		C	6.00	4.75	4.00	116.0
8	CWD104C8	15.68	C	7.50	5.00	5.00	122.0
8	CWD104C8*		C	7.50	5.00	5.00	137.0
9	CWD104C9	17.54	C	7.50	5.00	5.00	152.0
9	CWD104C9*		C	7.50	5.00	5.00	167.0
10	CWD104C10	19.42	C	8.00	5.50	6.00	160.0
10	CWD104C10*		C	8.00	5.50	6.00	175.0
11	CWD104C11	21.30	C	8.00	5.50	6.00	172.0
12	CWD104C12	23.18	C	8.00	5.50	6.00	185.0
13	CWD104C13	25.07	C	8.00	5.50	6.00	198.0

*Available Flanged - Consult Factory.

W106 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: W106 WH106HD, WR106, WR106HD, WH110

Tooth Face at Pitch Line: 1.50 — Roller Diameter: 1.25

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C106C5CR	10.15	C	6.00	4.75	4.00	30.0
8	C106C8CR	15.68	C	7.00	4.75	5.00	85.0
9	C106C9CR	17.54	C	7.00	4.75	5.00	100.0

S110 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: C110, C110C, SS110, 6110, WS110, RR542, C110,ER110, SBS110, WH110

Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.250

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C110C6	12.00	C	6.00	4.00	3.94	63.0
7	C110C7	13.84	C	7.00	4.00	4.50	68.0
8	C110C8	15.68	C	7.00	5.00	4.50	76.0
9	C110C9	17.54	C	7.00	5.00	4.50	83.0
10	C110C10	19.42	C	7.50	5.00	5.00	88.0
11	C110C11	21.30	C	7.50	5.00	5.00	121.0
12	C110C12	23.18	C	7.50	5.00	5.00	131.0
13	C110C13	25.07	C	7.50	5.00	5.00	152.0
14	C110C14	26.96	C	7.50	5.00	5.00	160.0
15	C110C15	28.86	C	7.50	5.00	5.00	170.0
16	C110C16	30.76	C	8.00	6.00	6.00	181.0
18	C110C18	34.55	C	8.00	6.00	6.00	206.0
19	C110C19	36.46	C	10.00	6.00	6.00	214.0
24	C110C24	45.97	C	10.00	8.00	8.00	340.0

WD110 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: H-110, 6110 (DRAG), WD110, WSD110, WS110 (PT-C), WDH2210, H110, WD110, WHD110, WD113

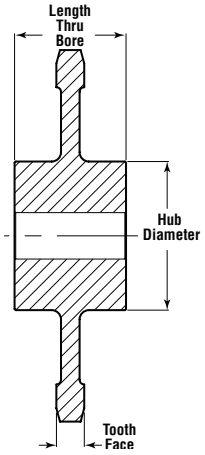
Tooth Face at Pitch Line: 8.875 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	CWD110C5	10.15	C	6.00	3.00	4.00	120.0
6	CWD110C6*	12.00	C	6.00	3.00	4.00	129.0
7	CWD110C7*	13.84	C	7.00	3.00	5.00	172.0
8	CWD110C8*	15.68	C	8.00	3.50	6.00	202.0
9	CWD110C9*	17.54	C	8.00	3.50	6.00	240.0
10	CWD110C10*	19.42	C	8.00	3.50	6.00	253.0
11	CWD110C11*	21.30	C	8.00	4.00	6.00	265.0
12	CWD110C12*	23.18	C	8.00	4.00	6.00	352.0
15	CWD110C15	28.86	C	8.00	4.00	6.00	610.0

*Available Flanged - Consult Factory.

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprockets



111SP CAST TOOTH SPROCKETS — DOUBLE PITCH 4.760 AND 7.240 — CHILLED RIM

FOR CHAINS NO.: C111 Spec., SS111 Spec., 6111 Spec., ER111SP

Tooth Face at Pitch Line: 2.375 — Roller Diameter: 1.438

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CDP111C8CR	15.74	C	7.50	6.00	5.00	90.0
10	CDP111C10CR	19.40	C	7.50	6.00	5.00	107.0
12	CDP111C128CR	23.22	C	8.00	6.00	6.00	190.0

111 CAST TOOTH SPROCKETS — PITCH 4.760 CHILLED RIM

FOR CHAINS NO.: C111 Spec., SS111 Spec., 6111 Spec., ER111SP

Tooth Face at Pitch Line: 2.375 — Roller Diameter: 1.438

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C111C6CR	9.52	C	7.00	4.00	4.00	64.0
7	C111C7CR	10.99	C	7.00	4.00	5.00	81.0
8	C111C8CR	12.44	C	7.50	6.00	5.06	98.0
9	C111C9CR	13.92	C	7.00	6.00	5.06	107.0
10	C111C10CR	15.40	C	7.50	6.00	5.06	122.0
11	C111C11CR	16.90	C	7.50	6.00	5.06	136.0
12	C111C12CR	18.39	C	7.50	6.00	5.06	145.0
13	C111C13CR	19.89	C	7.50	6.00	5.06	120.0
14	C111C14CR	21.39	C	8.00	6.00	6.00	125.0
15	C111C15CR	24.35	C	8.00	6.00	6.00	180.0
16	C111C16CR	24.35	C	8.00	6.00	6.00	189.0
17	C111C17CR	25.90	C	8.00	6.00	6.00	218.0
18	C111C18CR	27.41	C	8.00	6.00	6.00	228.0
20	C111C20CR	30.34	C	8.00	6.00	6.00	248.0
22	C111C22CR	33.44	C	10.00	6.00	8.00	261.0
24	C111C24CR	36.47	C	10.00	6.00	8.00	274.0

WD112 CAST TOOTH SPROCKETS — PITCH 8.00

FOR CHAINS NO.: H112, WD112, WSD112, WD112, SDH112

Tooth Face at Pitch Line: 9.000 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
7	CWD112C7	18.44	C	8.00	6.00	6.938	260.0
8	CWD112C8	20.90	C	8.00	6.00	6.938	281.0
9	CWD112C9	23.39	C	8.00	6.00	6.938	308.0
10	CWD112C10	25.89	C	8.00	6.00	6.938	346.0

WD112 CAST TOOTH SPROCKETS — PITCH 8.00 ALLOY IRON

FOR CHAINS NO.: WDH116, WDH2316, WD116, 8116, HC8116, WS116, WSD116

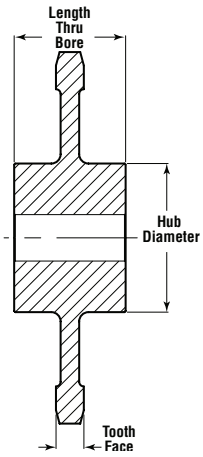
Tooth Face at Pitch Line: 9.000 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD116C6*	16.00	C	7.00	6.00	5.00	210.0
7	CWD116C7*	18.44	C	7.00	6.00	5.00	303.0
8	CWD116C8*	20.90	C	8.00	6.00	6.00	346.0
9	CWD116C9*	23.39	C	8.00	6.00	6.00	442.0
10	CDWD116C	25.92	C	8.00	6.00	6.00	450.0

*Available Flanged - Consult Factory.

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



WD119 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: SD-19, SD19A, CC119, HC119

Tooth Face at Pitch Line: 3.625 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD119C6	12.00	C	6.00	5.00	4.00	95.0

WD120 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: H-120, WD120, WDH120

Tooth Face at Pitch Line: 8.750 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD120C6	12.00	C	6.00	5.00	5.00	130.0
8	CWD120C8	15.68	C	6.00	5.00	5.00	250.0
9	CWD120C9	17.54	C	8.00	5.00	6.00	232.0
10	CWD120C10	19.42	C	8.00	5.00	6.00	215.0
11	CWD120C11	21.30	C	8.00	5.00	6.00	308.0

H121 CAST TOOTH SPROCKETS — PITCH 9.00

FOR CHAINS NO.: SD21, SD21A, CC121, HC121

Tooth Face at Pitch Line: 8.625 — Roller Diameter: 2.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CWD121C8	23.52	C	10.00	6.00	8.00	130.0

WD122 CAST TOOTH SPROCKETS — PITCH 8.00 CHILLED RIM

FOR CHAINS NO.: WD122, WDH122, H-122

Tooth Face at Pitch Line: 8.750 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD122C6CR	16.00	C	7.50	5.00	6.00	180.0
6	CWD122C6CRF*	16.00	C	8.00	5.00	6.00	270.0
7	CWD122C7CR	18.44	C	8.00	5.00	6.00	210.0

* Standard Flange Width is 16.75"

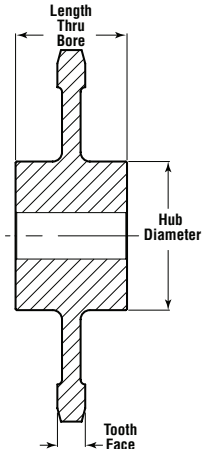
WD123 CAST TOOTH SPROCKETS — PITCH 9.00

FOR CHAINS NO.: CC123, SD23, SD23A, CC123, HC123

Tooth Face at Pitch Line: 6.250 — Roller Diameter: 2.50

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CWD123C8	23.52	C	8.00	6.00	6.44	481.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



H124 CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

H124, WHX124, WHX124HD, WSX124, H87, H124, WS124, WR124, WH124, C124

Tooth Face at Pitch Line: 1.500 — Roller Diameter: 1.438

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
7	C124C7CR	9.22	C	6.00	4.00	3.94	38.0
8	C124C8CR	10.45	C	6.50	4.25	4.94	52.0
9	C124C9CR	11.70	C	6.50	4.25	5.44	45.0
10	C124C10CR	12.94	C	7.00	4.25	5.44	73.0
11	C124C11CR	14.20	C	7.00	4.25	5.95	75.0
12	C124C12CR	15.45	C	7.00	4.25	6.00	80.0
13	C124C13CR	16.71	C	7.00	5.25	6.00	100.0
14	C124C15CR	17.98	C	7.00	5.25	6.00	103.0
15	C124C16CR	19.24	C	7.00	5.25	6.00	112.0
16	C124C17CR	20.50	C	7.00	5.25	6.00	125.0
17	C124C18CR	21.77	C	7.50	5.50	6.50	135.0
18	C124C19CR	23.04	C	7.50	5.50	6.50	145.0
19	C124C20CR	24.30	C	7.50	5.50	6.50	154.0
20	C124C22CR	25.57	C	8.00	6.00	6.50	161.0
22	C124C27CR	28.11	C	8.00	6.00	6.50	176.0
27	C124C28CR	34.46	C	10.00	6.00	8.00	240.0
30	C124C30CR	38.27	C	10.00	6.00	8.00	290.0
34	C124C34CR	43.35	C	10.00	6.00	8.00	300.0
37	C124C37CR	47.18	C	10.00	6.00	8.00	410.0

130 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

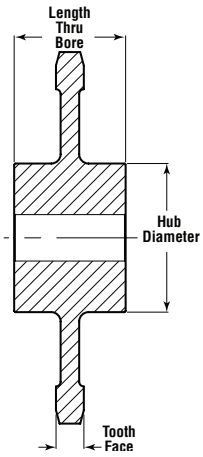
FOR CHAINS NO.: WHT130/138, 131, 138, WH784, 130RT, 138RT, H-130, H-138, WS784

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 1.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C130C5CR	6.77	C	3.00	2.75	2.00	18.0
6	C130C6CR	8.00	C	4.50	3.00	2.50	20.0
7	C130CCR	9.22	C	4.75	3.00	3.94	24.0
8	C130C8CR	10.45	C	5.25	3.00	4.50	27.0
9	C130C9CR	11.70	C	5.75	3.00	4.50	33.0
10	C130C10CR	12.94	C	6.00	4.00	5.00	46.0
11	C130C11CR	14.20	C	6.00	4.00	5.00	54.0
12	C130C12CR	15.45	C	6.50	4.00	5.50	73.0
13	C130C13CR	16.71	C	6.50	4.00	5.50	58.0
14	C130C14CR	17.95	C	6.50	4.00	5.50	80.0
16	C130C16CR	20.50	C	6.50	4.00	5.50	75.0
24	C111C24CR	36.47	C	10.00	6.00	8.00	274.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



132 CAST TOOTH SPROCKETS — PITCH 6.050 CHILLED RIM

FOR CHAINS NO.: WHX3855, WHX2855, C132, WHX132, WSX132, ER150, ERA150, WHX150, WHX155, WHX157, WHX159, AX132, AX132WS, AZ132WS, WHX132, WHX150,SX150, SXA150, WHX157, WHX159, C132, C132C, MBP132, MBP132C, PW132, SS150+, 6150PM, A132, A132WS, C132, C132M, C132W1, C132W2, CR-N132, DW132, HSB150, MPB132, MPBP132C, SXA150, W132, W132, W157, WH132, WH132HD, WH132XHD, WH150, WH150HD, WH150XHD, WH157, WH2012, WH2855, WH3855, WH3855

Tooth Face at Pitch Line: 2.750 — Roller Diameter: 1.750

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C132C5CR	10.20	C	6.00	6.00	4.00	59.0
6	C132C6CR	12.10	C	6.00	6.00	4.00	100.0
8	C132C8CR*	15.81	C	8.00	7.00	6.00	163.0
9	C132C9CR*	17.69	C	8.00	7.00	6.00	165.0
10	C132C10CR*	19.57	C	8.00	7.00	6.00	186.0
11	C132C11CR*	21.47	C	8.00	8.00	6.00	215.0
12	C132C12CR*	23.38	C	8.00	8.00	6.00	258.0
13	C132C13CR	25.28	C	8.00	8.00	6.00	280.0
14	C132C14CR	27.19	C	10.00	8.00	8.00	296.0
15	C132C15CR	29.10	C	10.00	8.00	8.00	372.0
16	C132C16CR	31.01	C	10.00	8.00	8.00	302.0
18	C132C17CR	34.84	C	10.00	8.00	8.00	445.0
19	C132C18CR	36.76	C	10.00	8.00	8.00	486.0
20	C132C19CR	38.67	C	10.00	8.00	8.00	495.0

*Available Flanged - Consult Factory.

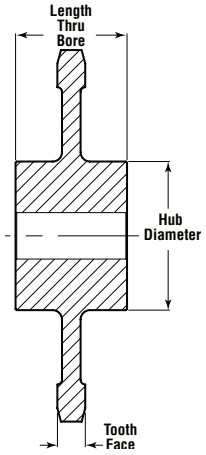
182 CAST TOOTH SPROCKETS — PITCH 3.000 CHILLED RIM

FOR CHAINS NO.: 53R, 3013, 1183, 1583, SR183, MSR-3013, RS3013

Tooth Face at Pitch Line: 0.8125 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C183C6CR	6.00	C	4.00	3.00	2.68	10.0
7	C183C7CR	6.92	C	4.00	3.00	2.68	14.0
8	C183C8CR	7.84	C	4.00	3.00	2.68	14.0
9	C183C9CR	8.77	C	5.00	3.00	2.94	22.0
10	C183C10CR	9.71	C	5.00	3.00	2.94	21.0
11	C183C11CR	10.65	C	5.00	3.00	2.94	30.0
12	C183C12CR	11.59	C	5.00	3.00	3.18	28.0
13	C183C13CR	12.54	C	6.00	3.00	3.49	38.0
14	C183C14CR	13.48	C	6.00	4.00	4.00	40.0
15	C183C15CR	14.43	C	6.00	4.00	4.00	43.0
16	C183C16CR	15.38	C	6.00	4.00	4.00	46.0
18	C183C18CR	17.28	C	6.00	4.00	4.00	55.0
19	C183C19CR	18.23	C	6.00	4.00	4.00	67.0
20	C183C20CR	19.18	C	8.00	4.00	6.00	65.0
24	C183C24CR	22.98	C	8.00	4.00	6.00	75.0
25	C183C25CR	23.94	C	8.00	4.00	6.00	85.0
38	C183C38CR	36.33	C	8.00	4.00	6.00	140.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



188 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 91R, 4113, 1188, SR188, 2188, RS2188, RS4113. NOT for C-188 (2.609P) see W-78, LXS-4113, SS2188

Tooth Face at Pitch Line: 0.9375 — Roller Diameter: 1.750

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C188C5CR	6.78	C	4.00	3.00	2.50	14.0
6	C188C6CR	8.00	C	4.00	3.00	3.44	15.0
7	C188C7CR	9.22	C	4.00	3.00	3.68	27.0
8	C188C8CR	10.45	C	6.00	4.00	3.94	35.0
9	C188C9CR	11.70	C	6.00	4.00	3.94	32.0
10	C188C10CR	12.94	C	6.00	4.00	3.94	43.0
11	C188C11CR	14.19	C	6.50	4.00	4.44	50.0
12	C188C12CR	15.45	C	6.50	4.00	4.44	60.0
13	C188C13CR	16.71	C	8.00	5.00	5.00	36.0
15	C188C15CR	19.24	C	8.00	5.00	5.00	39.0
19	C188C19CR	24.30	C	10.00	5.00	6.00	48.0
24	C188C24CR	30.64	C	10.00	5.00	6.00	58.0

194 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

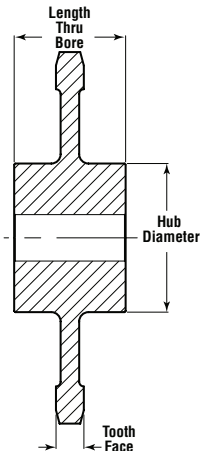
FOR CHAINS NO.: US90R, 83R, 4215, SR194, GL-194, LXS-4216, 83-R, US-90-R, SR-194, 14-1/2, 194, U194, 2066, S1194, 1400, 1594

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C188C5CR	6.78	C	4.00	3.00	2.50	14.0
6	C188C6CR	8.00	C	4.00	3.00	3.44	15.0
7	C188C7CR	9.22	C	4.00	3.00	3.68	27.0
8	C188C8CR	10.45	C	6.00	4.00	3.94	35.0
9	C188C9CR	11.70	C	6.00	4.00	3.94	32.0
10	C188C10CR	12.94	C	6.00	4.00	3.94	43.0
11	C188C11CR	14.19	C	6.50	4.00	4.44	50.0
12	C188C12CR	15.45	C	6.50	4.00	4.44	60.0
13	C188C13CR	16.71	C	8.00	5.00	5.00	36.0
15	C188C15CR	19.24	C	8.00	5.00	5.00	39.0
19	C188C19CR	24.30	C	10.00	5.00	6.00	48.0
24	C188C24CR	30.64	C	10.00	5.00	6.00	58.0
13	C194C13CR	16.71	C	6.50	4.00	3.62	64.0
14	C194C14CR	17.98	C	6.50	4.00	3.62	90.0
15	C194C15CR	19.14	C	7.50	4.00	3.62	81.0
19	C194C19CR	24.30	C	7.50	4.00	3.62	121.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



196 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: SR196, 1114, 1116, 604R, 627R, 634R, 6018, SRC196, SRD1960, US196R, US196RA42, SR911, SRC196, SRD1960, MSR-1116, MSR-6018, GL-196, SS-1114, 604R, 196, 2126

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C196C5CR	10.21	C	6.00	4.00	4.00	28.0
6	C196C6CR	12.00	C	6.00	4.00	4.00	33.0
7	C196C7CR	13.83	C	6.50	4.00	4.00	49.0
8	C196C8CR	15.68	C	6.50	5.00	4.56	84.0
9	C196C9CR	17.54	C	6.50	5.00	4.56	93.0
10	C196C10CR	19.42	C	7.00	5.00	4.56	114.0
12	C196C12CR	23.18	C	7.00	5.00	4.56	148.0
13	C196C13CR	25.07	C	7.00	5.00	4.56	119.0
14	C196C14CR	26.96	C	7.00	5.00	4.56	128.0
16	C196C16CR	30.76	C	8.00	5.00	4.56	160.0
18	C196C18CR	34.55	C	8.00	5.00	4.56	195.0
19	C196C19CR	36.45	C	8.00	5.00	4.56	210.0
25	C196C25CR	47.87	C	8.00	5.00	4.56	304.0

197 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 1617, 607R, 614R, 6018, 1130, CC5, RS2190 197, SR-3130, GL-197, SS-2190, MR-1130, 1617, 614, 607R, CC5, LXS-6238

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C197C6CR	12.00	C	6.00	5.00	4.75	45.0
7	C197C7CR	13.83	C	6.50	5.00	4.75	60.0
8	C197C8CR	15.68	C	6.50	5.00	4.75	75.0
9	C197C9CR	17.54	C	6.50	5.00	4.75	84.0
10	C197C10CR	19.42	C	7.00	5.00	4.75	94.0
11	C197C11CR	21.30	C	7.00	5.00	4.75	100.0
12	C197C12CR	23.18	C	7.00	5.00	4.75	125.0
15	C197C15CR	28.86	C	7.00	5.00	4.75	178.0

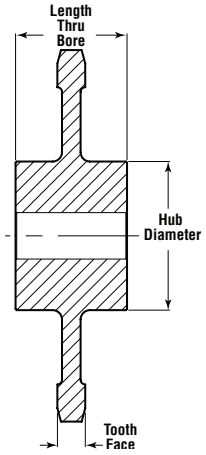
348 CAST TOOTH SPROCKETS — PITCH 3.031 CHILLED RIM

FOR CHAINS NO.: X348, S348, N348, 348

Tooth Face at Pitch Line: 0.687 — Roller Diameter: 1.0625

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
4	C348C4CR	7.92	C	4.00	4.00	2.00	11.0
5	C348C5CR	9.71	C	4.00	4.00	2.00	19.0
6	C348C6CR	11.59	C	5.00	4.00	3.00	24.0
7	C348C7CR	13.48	C	5.00	4.00	3.00	43.0
8	C348C8CR	15.54	C	5.00	4.00	3.00	43.0
9	C348C9CR	17.28	C	7.00	4.00	5.00	51.0
10	C348C10CR	19.18	C	7.00	4.00	5.00	68.0
11	C348C11CR	21.03	C	7.00	4.00	5.00	75.0
12	C348C12CR	22.98	C	7.00	4.00	5.00	83.0
16	C348C16CR	30.60	C	7.00	4.00	5.00	120.0
19	C348C19CR	36.33	C	7.00	4.00	5.00	159.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



458 CAST TOOTH SPROCKETS — PITCH 4.031 CHILLED RIM

FOR CHAINS NO.: S458, X458, 458

Tooth Face at Pitch Line: 0.875 — Roller Diameter: 1.380

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
3	C458C3CR	7.95	C	4.50	5.00	2.00	14.0
4	C458C4CR	10.54	C	5.00	5.00	3.00	27.0
5	C458C5CR	13.05	C	6.00	5.00	5.06	40.0
6	C458C6CR	15.58	C	6.00	5.00	5.06	63.0
7	C458C7CR	18.12	C	7.00	5.00	5.06	70.0
8	C458C8CR	20.66	C	7.00	5.00	5.06	93.0
9	C458C9CR	23.13	C	7.50	5.00	5.06	130.0
10	C458C10CR	25.77	C	7.50	5.00	5.06	145.0
11	C458C11CR	28.33	C	7.50	5.00	5.06	193.0
12	C458C12CR	30.68	C	7.50	5.00	5.06	200.0
14	C458C14CR	35.87	C	8.00	5.00	5.06	228.0
19	C458C19CR	48.63	C	8.00	5.00	5.06	345.0
25	C196C25CR	47.87	C	8.00	5.00	4.56	304.0

WD480 CAST TOOTH SPROCKETS — PITCH 8.000 CHILLED RIM

FOR CHAINS NO.: H480, 8480, 480, WS480, WSD480, WD480, WDH480, WDH2380, WDH680, WDH580

Tooth Face at Pitch Line: 11.125 — Roller Diameter: 2.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD480C6*	16.00	C	7.00	5.00	5.00	237.0
7	CWD480C7*	18.44	C	7.50	5.00	5.00	295.0
8	CWD480C8*	20.90	C	7.50	6.00	5.00	290.0
9	CWD480C9*	23.39	C	7.50	6.00	5.00	380.0
10◊	CWD480C10*	25.89	C	8.00	6.00	5.00	381.0
11◊	CWD480C11	28.40	C	8.00	6.00	5.00	505.0

*Available Flanged - Consult Factory.

468 CAST TOOTH SPROCKETS — PITCH 4.031 CHILLED RIM

FOR CHAINS NO.: 468, S468, 468A

Tooth Face at Pitch Line: 1.375 — Roller Diameter: 1.880

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
4	C468C4CR	10.53	C	5.00	4.00	3.00	36.0
5	C468C5CR	13.05	C	6.00	4.00	4.00	52.0
6	C468C6CR	15.58	C	6.50	4.00	4.50	80.0
7	C468C7CR	18.12	C	6.50	4.00	4.50	92.0
8	C468C8CR	20.66	C	6.50	4.00	4.50	118.0
9	C468C9CR	23.21	C	7.00	4.00	5.00	148.0
10	C468C10CR	25.77	C	7.00	4.00	5.00	160.0
12	C468C12CR	30.88	C	7.00	4.00	5.00	240.0
11	C458C11CR	28.33	C	7.50	5.00	5.06	193.0
12	C458C12CR	30.68	C	7.50	5.00	5.06	200.0

463 CAST TOOTH SPROCKETS — PITCH 4.000

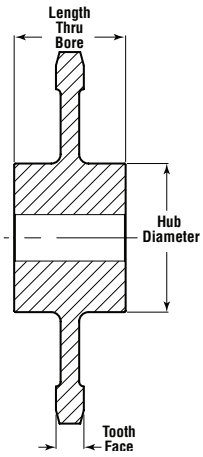
FOR CHAINS NO.: 483, S4830K23

Tooth Face at Pitch Line: 0.875 — Roller Diameter: 0.940

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C483C8	10.45	C	5.00	5.00	2.75	30.0
9	C483C9	11.70	C	5.00	5.00	2.75	35.0
12	C483C12	15.45	C	6.00	5.00	3.00	65.0
13	C483C13	16.72	C	6.00	5.00	3.00	70.0
19	C483C19	24.30	C	8.00	5.00	6.00	124.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.
* Standard Flange Plain Chain is 18.625" OAW; Standard Chain is 22" OAW.
◊ Special machining charges apply.

Cast Iron Sprocket



520 CAST TOOTH SPROCKETS — PITCH 2.563 CHILLED RIM

FOR CHAINS NO.: A520, 520-RX, SS520, IS2625, SS-520, IS-2625, 520RX

Tooth Face at Pitch Line: 0.875 — Roller Diameter: 1.125

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
10	C520C10CR	8.29	C	4.00	3.00	2.00	4.0
12	C520C12CR	9.90	C	4.00	3.00	2.00	5.0
14	C520C14CR	11.53	C	5.00	3.00	2.50	34.0
18	C520C18CR	14.76	C	5.00	3.00	2.50	65.0
24	C520C24CR	19.64	C	6.00	3.00	3.00	10.0
30	C520C30CR	24.52	C	7.50	3.00	3.00	100.0
40	C520C40CR	32.67	C	7.50	3.00	3.00	165.0

531 CAST TOOTH SPROCKETS — PITCH 4.000

FOR CHAINS NO.: 531, 89R, 149, 4328, SS149, S531, LXS4328, IS4328, S531, MSR4328, RS4328

Tooth Face at Pitch Line: 1.187 — Roller Diameter: 2.25

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C531C6	8.00	C	5.00	4.00	2.94	34.0
8	C531C8	10.45	C	6.00	4.00	3.44	34.0
10	C531C10	12.94	C	7.00	4.00	3.94	47.0
12	C531C12	15.45	C	7.00	4.00	4.44	66.0
14	C531C14	17.99	C	7.50	4.00	5.00	75.0
15	C531C15	19.24	C	7.50	4.00	5.00	85.0
16	C531C16	20.50	C	7.50	4.00	5.00	94.0
17	C531C17	21.77	C	7.50	4.00	5.00	107.0
19	C531C19	24.30	C	7.50	4.00	5.00	120.0

625R CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 625R, 626R, 629R, SS658, 625R, 1258, 1604R

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 3.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C625C6CR	12.00	C	6.00	4.00	4.00	62.0
8	C625C8CR	15.68	C	7.00	4.00	5.00	78.0
10	C625C10CR	19.42	C	8.00	5.00	6.00	96,0
12	C625C12CR	23.18	C	8.00	5.00	6.00	114.0
13	C625C13CR	25.07	C	8.00	5.00	6.00	123.0

667 CAST TOOTH SPROCKETS — PITCH 2.250 CHILLED RIM

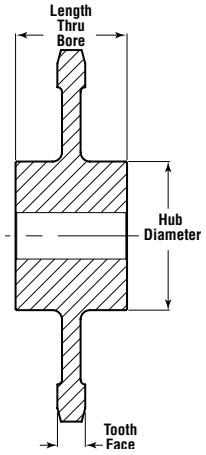
FOR CHAINS NO.: 667, J-X-K-53

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 1.062

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C667C6CR	4.50	C	2.50	2.50	1.50	9.0
8	C667C8CR	5.87	C	3.00	2.75	1.50	10.0
11	C667C11CR	7.98	C	4.00	2.75	2.00	15.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprockets



678 CAST TOOTH SPROCKETS — PITCH 6.031 CHILLED RIM

FOR CHAINS NO.: X678, S678, 678

Tooth Face at Pitch Line: 1.187 — Roller Diameter: 2.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
3	C678C3CR	12.06	C	6.00	4.50	3.00	30.0
4	C678C4CR	15.72	C	6.00	4.50	3.00	77.0
5	C678C5CR	19.52	C	7.00	4.50	3.50	93.0
6	C678C6CR	23.34	C	8.00	4.50	4.00	146.0
7	C678C7CR	27.03	C	8.50	4.50	4.00	190.0
8	C678C8CR	30.83	C	8.50	4.50	4.00	240.0

698 CAST TOOTH SPROCKETS — PITCH 6.031 CHILLED RIM

FOR CHAINS NO.: 698, S698, S698HD

Tooth Face at Pitch Line: 1.375 — Roller Diameter: 2.69

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C698C5CR	19.52	C	8.00	5.00	6.00	122.0
6	C698C6CR	23.38	C	8.00	5.00	6.00	135.0
7	C698C7CR	26.96	C	8.00	5.00	6.00	200.0
8	C698C8CR	30.92	C	8.00	5.00	6.00	275.0

CS720S CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: CS720S, WH720CS

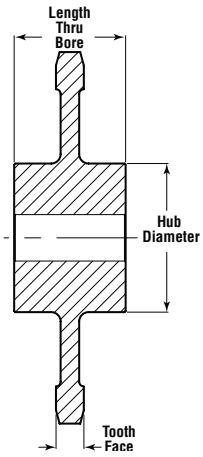
Tooth Face at Pitch Line: 1.00 — Roller Diameter: 1.44

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6.5P-13T	C720C13HCR*	12.89	C	6.00	4.00	3.00	65.0
8.5P-17T	C720C17HCR*	16.59	C	6.00	4.00	3.00	98.2
9	C720C9CR	17.51	C	6.00	4.00	3.00	80.0
9.5P-19T	C720C19HCR*	18.48	C	6.00	4.00	3.00	115.3
10	C720C10CR	19.42	C	6.00	4.00	3.00	95.0
10.5P-21T	C720C21HCR*	20.33	C	7.00	5.00	3.50	110.0
11	C720C11CR	21.30	C	7.00	5.00	3.50	105.0
11.5P-23T	C720C23HCR*	22.24	C	7.00	5.00	3.50	127.7
12.5P-25T	C720C25HCR*	24.12	C	7.00	5.00	3.50	141.3
13	C720C13CR	25.07	C	7.00	5.00	3.50	130.0
16	C720C16CR	30.75	C	7.00	5.00	3.50	180.0

* Regular and DoubleLife (Hunting Tooth) Designs

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



720S CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 720S, 720

Tooth Face at Pitch Line: 1.00 — Roller Diameter: 1.4375

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C720C6CR	12.00	C	6.00	4.00	3.00	47.0
6.5P-13T	C720C13HCR*	12.91	C	6.00	4.00	3.00	53.1
8	C720C8CR	15.68	C	6.00	4.00	3.00	70.0
8.5P-17T	C720C17HCR*	16.61	C	6.00	4.00	3.00	92.2
9	C720C9CR	17.51	C	6.00	4.00	3.00	80.0
9.5P-19T	C720C19HCR*	18.48	C	6.00	4.00	3.00	107.3
10	C720C10CR	19.42	C	6.00	4.00	3.00	95.0
10.5P-21T	C720C21HCR*	20.33	C	6.00	4.00	3.00	110.0
11	C720C11CR	21.30	C	6.00	4.00	3.00	105.0
11.5P-23T	C720C23HCR*	24.12	C	6.00	4.00	3.00	131.5
12	C720C12CR	23.18	C	7.00	5.00	3.50	120.0
12.5P-25T	C720C25HCR*	24.12	C	7.00	5.00	3.50	131.5
13	C720C13CR	25.07	C	7.00	5.00	3.50	130.0
15	C720C15CR	28.86	C	7.00	5.00	3.50	155.0
16	C720C16CR	30.75	C	7.00	5.00	3.50	180.0
19	C720C19CR	36.44	C	7.50	5.00	3.75	220.0
20	C720C20CR	38.36	C	7.50	5.00	3.75	242.0
21	C720C21CR	40.25	C	7.50	5.00	3.75	261.0
23	C720C23CR	44.06	C	7.50	5.00	3.75	318.0
25	C720C25CR	47.87	C	7.50	5.00	3.75	342.0

* Regular and DoubleLife (Hunting Tooth) Designs

A730 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

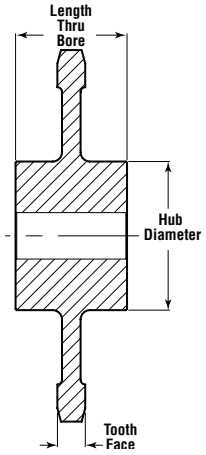
FOR CHAINS NO.: A730, 730

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C730C6CR	12.00	C	6.00	4.00	3.00	47.9
8	C730C8CR	15.68	C	6.00	4.00	3.00	71.3
9	C730C9CR	17.54	C	6.00	4.00	3.00	85.5
9.5P-19T	C730C19HCR*	18.48	C	6.00	4.00	3.00	107.3
10P-20T	C730C20HCR*	19.42	C	6.00	4.00	3.00	115.4
11	C730C11CR	21.30	C	6.00	4.00	3.00	105.0
11.5P-23T	C730C23HCR*	22.24	C	6.00	4.00	3.00	104.5
12	C730C12CR	23.14	C	7.00	5.00	3.50	110.8
12.5P-25T	C730C25HCR*	24.12	C	7.00	5.00	3.50	117.9
13	C730C13CR	25.07	C	7.00	5.00	3.50	125.1
13.5P-27T	C730C27HCR*	26.02	C	7.00	5.00	3.50	132.5
14	C730C14CR	26.96	C	7.00	5.00	3.50	153.7
15	C730C15CR	28.86	C	7.00	5.00	3.50	170.0
16	C730C16CR	30.75	C	7.00	5.00	3.50	187.2
18	C730C18CR	34.55	C	8.00	5.00	4.00	225.2
24	C730C24CR	45.79	C	8.00	5.00	4.00	363.5
27	C730C27CR	57.68	C	8.00	5.00	4.00	408.

* Regular and DoubleLife (Hunting Tooth) Designs

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



823 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 823

Tooth Face at Pitch Line: 1.130 — Roller Diameter: 0.780

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C823C8CR	10.45	C	6.00	4.00	2.44	25.0
10	C823C10CR	12.95	C	6.00	4.00	3.18	45.0
11	C823C11CR	14.40	C	6.00	4.00	3.68	54.0
12	C823C12CR	15.46	C	6.00	4.00	3.94	56.0
13	C823C13CR	16.71	C	6.00	4.00	4.44	60.0
14	C823C14CR	17.98	C	7.00	4.00	4.94	65.0
16	C823C16CR	20.51	C	7.00	4.00	5.44	81.0
17	C823C17CR	21.77	C	7.50	4.00	5.94	86.0
18	C823C18CR	23.04	C	7.50	4.00	5.94	91.0
19	C823C19CR	24.26	C	8.00	4.00	6.00	95.0
24	C823C24CR	30.65	C	8.00	4.00	6.00	138.0

825 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 825, SR825

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 1.156

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
10	C825C10CR	12.94	C	6.00	4.00	3.00	58.0
11	C825C11CR	14.20	C	6.00	4.00	3.00	65.0
12	C825C12CR	15.45	C	6.00	4.00	3.00	78.0
13	C825C13CR	16.71	C	6.00	4.00	3.00	82.0
14	C825C14CR	17.98	C	8.00	4.00	3.00	94.0
15	C825C15CR	19.24	C	8.00	4.00	4.00	112.0
16	C825C16CR	20.50	C	8.00	4.00	4.00	115.0
19	C825C19CR	24.30	C	8.00	4.00	4.00	140.0

830 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 830, 6830, SR830, 830R, HSB830, RR830

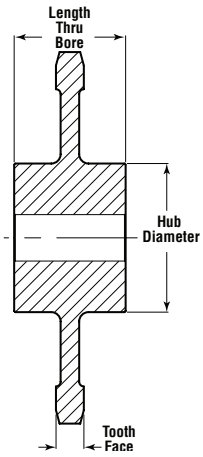
Tooth Face at Pitch Line: 1.312 — Roller Diameter: 1.156

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C830C6CR	12.00	C	6.00	4.00	4.00	58.5
8	C830C8CR	15.65	C	7.00	4.00	5.00	83.0
9	C830C9CR	17.54	C	7.00	4.00	5.00	95.0
10	C830C10CR	19.42	C	7.00	4.00	5.00	102.0
11	C830C11CR	21.20	C	7.00	4.00	5.00	105.0
11.5 -23T	C830C23HCR*	22.21	C	7.50	5.00	5.50	125.0
12	C830C12CR	23.18	C	7.50	5.00	5.50	121.0
13	C830C13CR	25.07	C	8.50	5.00	6.00	142.0
15	C830C15CR	28.86	C	8.50	5.00	6.00	168.0
16	C830C16CR	30.75	C	8.50	5.00	6.00	180.0

* Hunting Tooth

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



844 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 844, SBS844, SR844, 6844, 6844M, 844R, HSB844, HSB844S, S844, SBS844

Tooth Face at Pitch Line: 2.125 — Roller Diameter: 1.190

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C844C8CR	15.88	C	7.00	5.00	5.00	94.0
9	C844C9CR	17.54	C	7.00	5.00	5.00	112.0
10	C844C10CR	19.42	C	7.00	5.00	5.00	125.0
11	C844C11CR	21.30	C	7.00	5.00	5.00	140.0
12	C844C12CR	23.18	C	8.00	6.00	6.00	160.0
13	C844C13CR	25.07	C	8.00	6.00	6.00	171.0
15	C844C15CR	28.86	C	8.00	6.00	6.00	200.0
16	C844C16CR	30.75	C	8.00	6.00	6.00	217.0
19	C844C19CR	36.45	C	8.00	6.00	6.00	275.0

856 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 844, SBS844, SR844, 6844, 6844M, 844R, HSB844, HSB844S, S844, SBS844

Tooth Face at Pitch Line: 2.125 — Roller Diameter: 1.190

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
7	C856C7	13.83	C	6.50	5.00	4.75	122.0
8	C856C8	15.68	C	6.50	5.00	4.75	130.0
10	C856C10	19.42	C	7.00	5.00	4.75	200.0
11	C856C11	21.30	C	7.00	5.00	4.75	230.0
12	C856C12	23.18	C	7.00	5.50	5.00	245.0
13	C856C13	25.07	C	7.50	5.50	5.00	260.0
14	C856C14	26.96	C	7.50	5.50	5.00	285.0
15	C856C15	28.86	C	7.50	5.50	5.00	300.0

E922 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: ER922, SS927, MRS927, 1751

Tooth Face at Pitch Line: 1.625 — Roller Diameter: 3.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CE922C6CR	18.00	C	8.00	6.00	5.94	112.0
8	CE922C8CR	23.52	C	8.00	6.00	5.94	170.0

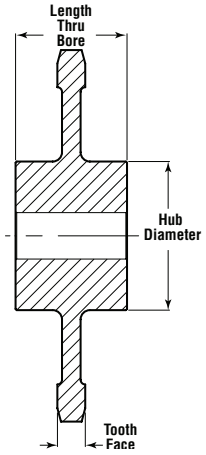
F922 CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: FR922, SS922, 925R

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 3.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CF922C6CR	18.00	C	8.00	6.00	5.94	74.0
8	CF922C6CR	23.52	C	8.00	6.00	5.94	150.0
9	CF922C6CR	26.31	C	8.00	6.00	5.94	160.0
10	CF922C6CR	29.12	C	8.00	6.00	5.94	175.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



F933 CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: F932, F929,SS932, 933, F933, F940, F932, SS932, 933, F933, SS933, FB40, SS940, F929 ER933, FR933, SS933 B964R, F-933, 933, E933, RS933F, RS933P, SS933

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CF933C6CR	18.00		8.00	8.00	5.94	93.0
7	CF933C7CR	20.74		8.00	8.00	5.94	120.0
8	CF933C8CR	23.52		8.00	8.00	5.94	152.0

B963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: SS922, FR922, SS4002, SS4002, SS922, F930, SS930, 809, B963R, F922, SS922, F930, SS930, E931, B963R, F922, E931

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 3.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CB963C6CR	18.00	C	6.00	6.00	2.93	74.0
8	CB963C8CR	23.52	C	8.00	6.00	3.44	150.0
9	CB963C9CR	26.31	C	8.00	6.00	3.44	160.0
10	CB963C10CR	29.12	C	8.00	6.00	3.44	175.0
11	CB963C11CR	31.95	C	8.00	6.00	4.00	181.0
12	CB963C12CR	34.77	C	8.00	6.00	4.00	195.0

951 CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: 2183, F2183, S951, S951, 1131R, S1131, SS1131, U1131, 1734, 1906, 2183, 2184, 2184AC, 2184R, SS2184, LXS6438, 626R, 156CMR, MR156C, 631R, SS951, SS314, 6 Spec., 126C, 126CMR, MR126C, 626R, 156CMR, MR156C, 631R, S951, SS951, SS314

Tooth Face at Pitch Line: 1.062 — Roller Diameter: 3.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C951C6CR	12.00	C	6.00	6.00	3.94	62.0
8	C951C8CR	15.68	C	6.00	6.00	3.94	78.0
9	C951C9CR	17.54	C	6.00	6.00	3.94	92.0
12	C951C12CR	23.18	C	8.00	6.00	4.44	153.0
13	C951C13CR	25.03	C	8.00	6.00	4.44	175.0
14	C951C14CR	26.96	C	8.00	6.00	4.44	190.0
16	C951C16CR	30.75	C	8.00	6.00	4.44	225.0
25	C951C25CR	47.87	C	8.00	6.00	4.44	350.0

D963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

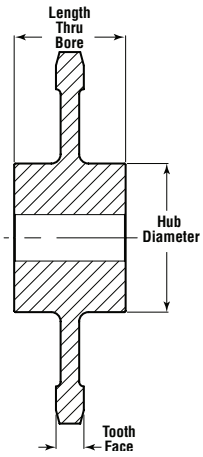
FOR CHAINS NO.: D-963R

Tooth Face at Pitch Line: 1.750 — Roller Diameter: 3.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CD963C8CR	23.52	C	10.00	8.00	6.44	170.0
9	CD963C9CR	26.31	C	10.00	8.00	6.44	182.0
10	CD963C10CR	29.12	C	10.00	8.00	6.44	198.0
11	CD963C11CR	31.95	C	10.00	8.00	6.44	215.0
12	CD963C12CR	34.77	C	10.00	8.00	6.44	230.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



E963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: E-963R

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CE963C8	23.52	C	10.00	8.00	6.44	152.0
9	CE963C9	26.31	C	10.00	8.00	6.44	164.0
10	CE963C10	29.12	C	10.00	8.00	6.44	179.0
11	CE963C11	31.95	C	10.00	8.00	6.44	194.0
12	CE963C12	34.77	C	10.00	8.00	6.44	224.0

F963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: F-963R (Hitachi)

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CF963C8	18.00	C	8.00	6.00	6.00	80.0
8	CF963C9	23.52	C	8.00	6.00	6.00	80.0

998 CAST TOOTH SPROCKETS — PITCH 9.031 CHILLED RIM

FOR CHAINS NO.: 998, S998, SS5998

Tooth Face at Pitch Line: 1.375 — Roller Diameter: 2.690

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
4	C197C6CR	23.53	C	9.00	6.00	6.44	195.0
5	C197C7CR	29.14	C	9.00	6.00	6.44	258.0
6	C197C8CR	34.81	C	9.00	6.00	6.44	325.0

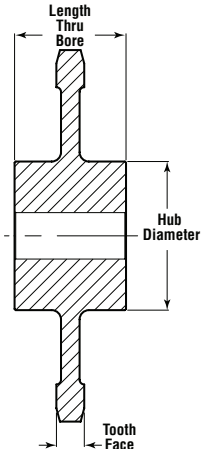
1030 CAST TOOTH SPROCKETS — PITCH 3.075 CHILLED RIM

FOR CHAINS NO.: ROA40 HYPER, ROA1031, ROA1032, R1033, R1035, R1037, SJLR1037, 1359, RS1539,CHAMP3, MXS·40, MXS·1031, MSR·1539, MXS·3075, SS554, SS40, 1030, R1033, R1035, 1037, CHAMP 3, JS-1030, US-1030

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 1.250

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1030C6CR	6.15	C	3.00	3.00	2.44	21.0
8	C1030C8CR	8.04	C	4.00	4.00	2.44	24.0
9	C1030C9CR	8.99	C	4.00	4.00	2.44	44.0
10	C1030C10CR	9.95	C	5.00	4.00	3.44	43.0
11◊	C1030C11CR	10.92	C	5.00	4.00	3.44	51.0
12	C1030C12CR	11.88	C	5.00	4.00	3.44	50.0
13◊	C1030C13CR	12.85	C	5.00	4.00	3.44	64.0
14	C1030C14CR	13.82	C	5.00	4.00	3.44	73.0
15	C1030C15CR	14.79	C	6.00	4.00	3.94	76.0
16	C1030C16CR	15.76	C	6.00	4.00	3.94	82.0
17	C1030C17CR	16.73	C	6.00	4.00	3.94	100.0
18◊	C1030C18CR	17.71	C	6.00	4.00	3.94	105.0
19	C1030C19CR	18.68	C	6.00	4.00	3.94	112.0
20	C1030C20CR	19.66	C	6.00	4.00	3.94	100.0
21	C1030C21CR	20.63	C	7.50	5.00	4.88	105.0
22	C1030C22CR	21.61	C	7.50	5.00	4.88	130.0
23	C1030C23CR	22.57	C	7.50	5.00	4.88	132.0
24	C1030C24CR	23.56	C	7.50	5.00	4.88	145.0
26	C1030C26CR	25.51	C	7.50	5.00	4.88	148.0
27	C1030C27CR	26.49	C	7.50	5.00	4.88	165.0
28	C1030C28CR	27.46	C	7.50	5.00	4.88	171.0
30◊	C1030C30CR	29.42	C	8.00	5.00	4.94	180.0
31	C1030C31CR	30.39	C	8.00	5.00	4.94	189.0
32	C1030C32CR	31.37	C	8.00	5.00	4.94	193.0
33	C1030C33CR	32.35	C	8.00	5.00	4.94	215.0
34	C1030C34CR	33.33	C	8.00	5.00	4.94	33.33
35	C1030C35CR	34.31	C	9.50	6.50	5.88	220.0
36	C1030C36CR	35.28	C	9.50	6.50	5.88	229.0
37◊†	C1030C37CR	36.26	C	9.50	6.50	5.88	234.0
38†	C1030C38CR	37.24	C	9.50	6.50	5.88	252.0
39	C1030C39CR	38.25	C	9.50	6.50	5.88	250.0
40	C1030C40CR	39.19	C	9.50	6.50	5.88	261.0
42	C1030C42CR	41.15	C	9.50	6.50	5.88	300.0
44	C1030C44CR	43.10	C	9.50	6.50	5.88	321.0
46	C1030C46CR	45.06	C	9.50	6.50	5.88	330.0
48	C1030C48CR	47.02	C	10.00	6.50	6.88	782.0
55	C1030C55CR	53.86	C	10.00	6.50	5.88	600.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information.
All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



1113 CAST TOOTH SPROCKETS — PITCH 4.040 CHILLED RIM

FOR CHAINS NO.: A3420, B3420, 3420, RS1113, RO2113, SS1113, SR3113, 3-1/2, SS60

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1113C6CR	8.08	C	4.00	3.00	2.44	24.0
8	C1113C8CR	10.56	C	4.00	4.00	2.94	38.0
9	C1113C9CR	11.81	C	5.00	4.00	3.18	40.0
10	C1113C10CR	13.07	C	5.00	4.00	3.68	45.0
11	C1113C11CR	14.34	C	5.00	5.00	3.94	50.0
12	C1113C12CR	15.61	C	6.00	5.00	4.44	60.0
13	C1113C13CR	16.88	C	6.00	5.00	4.94	68.0
14	C1113C14CR	18.16	C	6.00	5.00	4.94	85.0
16	C1113C16CR	20.71	C	6.00	5.00	4.94	95.0
17	C1113C17CR	21.99	C	6.00	5.00	4.94	104.0
18	C1113C18CR	23.67	C	8.00	6.00	4.94	110.0
24	C1113C24CR	30.95	C	8.00	6.00	4.94	178.0

1120 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 4, RR1120 (tbl 13-14 R95), 2761, 4, SS4, 40SP, LXS 4019, 1120 (tbl 13-47) RS4029

Tooth Face at Pitch Line: 0.750 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C1120C5CR	6.81	C	3.50	3.00	2.18	12.0
6	C1120C6CR	8.00	C	4.00	3.00	2.44	23.0
7	C1120C7CR	9.22	C	4.50	3.00	3.68	72.0
8	C1120C8CR	10.45	C	4.50	3.00	3.68	29.0
9	C1120C9CR	11.70	C	5.00	3.00	3.94	38.0
10	C1120C10CR	12.94	C	5.00	4.00	3.94	40.0
11	C1120C11CR	14.19	C	6.00	4.00	4.25	50.0
12	C1120C12CR	15.45	C	6.00	4.00	4.25	65.0
14	C1120C14CR	17.98	C	6.00	4.00	4.25	77.0
15	C1120C15CR	19.24	C	6.00	4.00	4.25	86.0
16	C1120C16CR	20.50	C	8.00	5.00	6.00	97.0
18	C1120C18CR	23.04	C	8.00	5.00	6.00	115.0
19	C1120C19CR	24.30	C	8.00	5.00	6.00	125.0
22	C1120C22CR	28.11	C	8.00	5.00	6.00	165.0
24	C1120C24CR	30.65	C	8.00	5.00	6.00	190.0
31	C1120C31CR	39.54	C	9.50	6.00	7.00	244.0
35	C1120C35CR	44.62	C	9.50	6.00	7.00	322.0

1131 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 6SP, RS1131, 2183, A2184

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 3.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1131C6CR	12.00	C	6.00	5.00	3.94	62.0
8	C1131C8CR	15.68	C	6.00	5.00	3.94	78.0
9	C1131C9CR	17.54	C	6.00	5.00	3.95	120.0
12	C1131C12CR	23.18	C	7.00	6.00	4.44	153.0
13	C1131C13CR	25.03	C	7.00	6.00	4.94	175.0
14	C1131C14CR	26.96 #	C	8.00	6.00	5.00	190.0
16	C1131C16CR	30.75	C	8.00	6.00	5.00	225.0
25	C1131C24CR	47.87	C	8.00	6.00	5.00	350.0

F1222 CAST TOOTH SPROCKETS — PITCH 12.000 CHILLED RIM

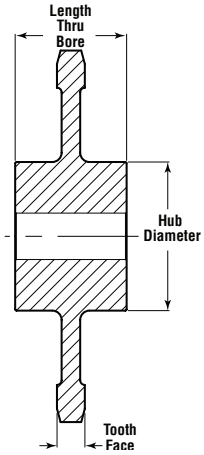
FOR CHAINS NO.: FR1222, SS1222, A1263, B1263R

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 4.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CF1222C6CR	24.00	C	7.50	5.00	5.94	143.0
8	CF1222C8CR	31.36	C	8.00	5.00	5.94	210.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket



2180 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: A1670, B1670, 1670, 2180, 530, 628R, 1126, 1212, 2180

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.250

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C2180C6CR	12.00	C	6.00	5.00	4.00	50.0
8	C2180C8CR	15.68	C	6.00	5.00	4.00	64.0
16	C2180C16CR	30.76	C	8.00	6.00	6.00	200.0
20	C2180C20CR	38.36	C	10.00	6.00	8.00	260.0

9250 CAST TOOTH SPROCKETS — PITCH 2.500 CHILLED RIM

FOR CHAINS NO.: SM120

Tooth Face at Pitch Line: 0.750 — Roller Diameter: 1.130

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C9250C6CR	5.00	C	3.00	2.75	1.50	5.0
7	C9250C6CR	5.76	C	3.00	2.75	1.50	9.0
8	C9250C6CR	6.53	C	4.00	2.75	2.00	10.0
10	C9250C6CR	8.09	C	4.00	3.00	2.50	13.0
11	C9250C6CR	8.87	C	4.00	3.00	2.50	16.0
12	C9250C6CR	9.66	C	4.00	3.00	2.50	18.0
14	C9250C6CR	11.24	C	6.00	3.00	3.00	23.0
15	C9250C6CR	12.03	C	6.00	3.00	3.00	28.0
16	C9250C6CR	12.81	C	6.00	3.00	3.00	30.0

1240 CAST TOOTH SPROCKETS — PITCH 4.063 CHILLED RIM

FOR CHAINS NO.: 1240, ROA1242 1244, R1248, ROA124, SS124, IS-4110, IS-4106, LXS1242, 1241

Tooth Face at Pitch Line: 1.750 — Roller Diameter: 1.750

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1240C6CR	8.13	C	4.00	4.00	2.31	30.0
7	C1240C7CR	13.83	C	5.25	4.75	3.25	39.0
8	C1240C8CR	10.82	C	6.50	5.00	4.06	52.0
9	C1240C9CR	11.88	C	6.50	5.00	4.06	61.0
10	C1240C10CR	13.15	C	6.50	5.00	4.06	69.0
11	C1240C11CR	14.42	C	6.50	5.00	4.06	78.0
12	C1240C12CR	15.70	C	7.00	6.00	4.56	96.0
13	C1240C13CR	16.98	C	7.00	6.00	4.56	102.0
14	C1240C14CR	18.26	C	7.00	6.00	4.56	112.0
15	C1240C15CR	19.54	C	7.00	6.00	4.56	122.0
16	C1240C16CR	20.82	C	8.00	6.25	5.31	140.0
17	C1240C17CR	22.11	C	8.00	6.25	5.31	142.0
18	C1240C18CR	23.40	C	8.00	6.25	5.31	161.0
19	C1240C19CR	24.68	C	8.00	6.25	5.31	175.0
21	C1240C21CR	27.26	C	8.00	6.25	5.31	210.0
22	C1240C22CR	28.55	C	8.00	6.25	5.31	218.0
24	C1240C24CR	31.12	C	8.00	6.25	5.31	240.0
25	C1240C25CR	33.42	C	9.00	6.25	6.06	250.0
28	C1240C28CR	36.29	C	9.00	6.25	6.06	310.0
29	C1240C29CR	37.58	C	9.00	6.75	6.06	330.0
30	C1240C30CR	38.87	C	10.00	6.75	7.13	346.0
32	C1240C32CR	41.45	C	10.00	6.75	7.13	378.0
34	C1240C34CR	44.03	C	10.00	6.75	7.13	402.0
37	C1240C37CR	47.90	C	11.00	7.75	7.13	471.0

4050 CAST TOOTH SPROCKETS — PITCH 12.000 CHILLED RIM

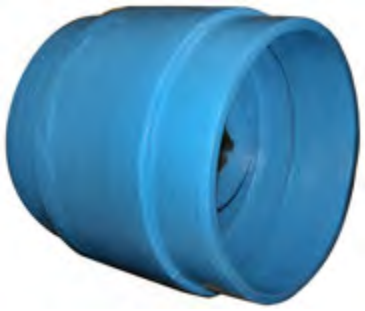
FOR CHAINS NO.: RS4850, SS1265R

Tooth Face at Pitch Line: 2.000 — Roller Diameter: 3.000

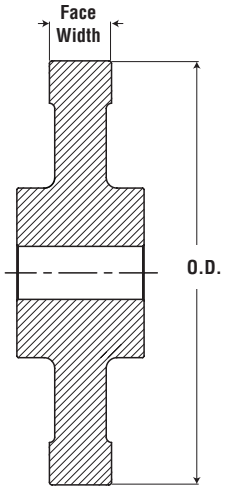
Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C4850C8CR	31.43	C	10.00	6.00	6.00	220.0

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information.
All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Traction Wheels







Martin traction wheels are offered as either solid construction or as a solid hub with segmental teeth. Segmental traction wheels can greatly reduce downtime since you do not have to disassemble the components around it. Traction wheels are in bucket elevators and can withstand abrasive materials.

Cast Traction Wheels and Drum Flanged Traction Wheels

Chain: 78, 88 **F = 0.94**

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C10.0TW	10.00	0.94	30.0
C12.0TW	12.00	0.94	45.0
C12.5TW	12.50	0.94	50.0
C13.25TW	13.25	0.94	58.0
C14.0TW	14.00	0.94	62.0
C15.0TW	15.00	0.94	65.0
C15.5TW	15.50	0.94	68.0
C16.0TW	16.00	0.94	70.0
C18.0TW	18.00	0.94	75.0
C19.0TW	19.00	0.94	80.0
C20.0TW	20.00	0.94	85.0

Chain: H102 **F = 6.25**

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C8.5TW	8.50	6.25	76.0
C10.0TW	10.00	6.25	126.0
C11.5TW	11.50	6.25	185.0
C13.0TW	13.00	6.25	144.0
C14.63TW	14.63	6.25	230.0
C16.25TW	16.25	6.25	162.0
C17.75TW	17.75	6.25	190.0
C19.38TW	19.38	6.25	215.0

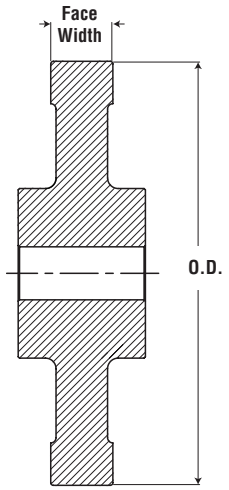
Chain: C102B, C110, C102-1/2 **F = 1.88**

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C12.0TW	12.00	1.88	50.0
C13.5TW	13.50	1.88	60.0
C14.0TW	14.00	1.88	63.0
C16.63TW	14.63	1.88	68.0
C15.75TW	15.75	1.88	78.0
C16.75TW	16.75	1.88	89.0
C17.0TW	17.00	1.88	92.0
C18.0TW	18.00	1.88	100.0
C19.75TW	19.75	1.88	108.0
C21.0TW	21.00	1.88	117.0
C22.0TW	22.00	1.88	127.0
C22.75TW	22.75	1.88	135.0
C23.0TW	23.00	1.88	139.0
C23.75TW	23.75	1.88	143.0
C27.63TW	27.63	1.88	160.0
C29.63TW	29.63	1.88	166.0
C33.0TW	33.00	1.88	175.0

Chain: H82, C131, 823, 4103, S131, 103, 730 **F = 1.13**

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C7.0TW	7.00	1.13	25.0
C9.63TW	9.63	1.13	38.0
C14.63TW	14.63	1.13	49.0
C16.0TW	16.00	1.13	60.0
C17.0TW	17.00	1.13	70.0
C18.0TW	18.00	1.13	75.0
C20.0TW	20.00	1.13	90.0
C22.0TW	22.00	1.13	115.0
C22.5TW	22.50	1.13	125.0
C24.0TW	24.00	1.13	135.0
C29.38TW	29.38	1.13	170.0

Traction Wheels



Chain: H104 — F = 4.00

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C10.5TW	10.50	4.00	12.00	125.0
C12.38TW	12.38	4.00	12.00	145.0
C14.0TW	14.00	4.00	12.00	170.0
C16.0TW	16.00	4.00	12.00	205.0
C17.75TW	17.75	4.00	12.00	250.0
C19.75TW	19.75	4.00	12.00	305.0
C20.0TW	20.03	4.00	12.00	345.0

Chain: H110 — F = 8.88

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C10.25TW	10.25	8.88	16.38	175.0
C14.0TW	14.00	8.88	16.38	250.0
C15.0TW	15.88	8.88	16.38	290.0
C17.75TW	17.75	8.88	16.38	335.0
C19.63TW	19.63	8.88	16.38	365.0

Chain: C111 — F = 2.25

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C9.5TW	9.50	2.25	50.0
C14.5TW	14.56	2.25	85.0
C15.5TW	15.50	2.25	91.0
C18.0TW	18.00	2.25	105.0
C20.0TW	20.00	2.25	135.0
C22.0TW	22.00	2.25	143.0
C23.0TW	23.00	2.25	146.0
C23.75TW	23.75	2.25	149.0
C26.0TW	26.00	2.25	165.0
C29.5TW	29.50	2.25	198.0
C30.75TW	30.75	2.25	210.0

Chain: H112 — F = 9.00

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C16.75TW	16.75	9.00	16.5	200.0
C19.25TW	19.25	9.00	16.5	230.0

Chain: H116 — F = 13.00

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C16.88TW	16.88	13.0	20.5	395.0
C19.0TW	19.00	13.0	20.5	485.0
C21.75TW	21.75	13.0	20.5	550.0

Chain: H118 — F = 13.00

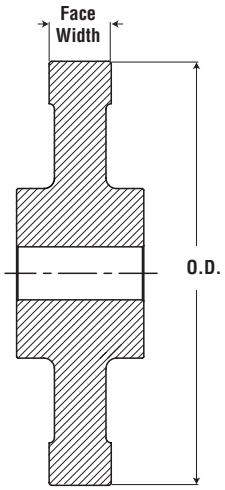
Part Number	Outside Diameter	Face Width	Weight Each (lb)
C13.88TW	13.88	13.00	495.0
C16.5TW	16.50	13.00	560.0

Chain: C132 — F = 2.75

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C13.0TW	13.00	2.75		120.0
C13.75TW	13.75	2.75		124.0
C16.0TW	16.00	2.75		128.0
C16.25TW	16.25	2.75	14.00	510.0
C17.0TW	17.00	2.75		138.0
C18.0TW	18.00	2.75		147.0
C18.25TW	18.25	2.75	14.00	570.0
C20.25TW	20.25	2.75	14.00	620.0
C21.63TW	21.63	2.75		186.0
C22.0TW	22.00	2.75		190.0
C24.0TW	24.00	2.75		205.0
C26.19TW	26.19	2.75		210.0
C27.75TW	27.75	2.75		225.0
C30.0TW	30.00	2.75		280.0

Unit Number H480 — F = 11.13

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C13.88TW	13.88	11.13	22.00	440.0
C16.25TW	16.25	11.13	22.00	510 0
C18.75TW	18.75	11.13	22.00	540 0
C21.13TW	21.13	11.13	22.00	600 0
C23.75TW	23.75	11.13	22.00	630.0
C16.25TW	16.25	11.13	22.00	510 0
C18.75TW	18.75	11.13	22.00	540 0
C21.13TW	21.13	11.13	22.00	600 0
C23.75TW	23.75	11.13	22.00	630.0



Chain: SS40, 825, 830 — F = 1.25

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C10.5TW	10.50	1.25	45.0
C14.0TW	14.00	1.25	60.0
C15.5TW	15.50	1.25	68.0
C16.0TW	16.00	1.25	72.0
C17.0TW	17.00	1.25	79.0
C18.25TW	18.25	1.25	86.0
C20.0TW	20.00	1.25	95.0
C22.0TW	22.00	1.25	105.0
C24.0TW	24.00	1.25	120.0
C27.75TW	27.75	1.25	140.0
C31.0TW	31.00	1.25	160.0

Chain: 844, 844R — F = 2.13

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C12.0TW	12.00	2.13	65.0
C16.0TW	16.00	2.13	90.0
C19.75TW	19.75	2.13	109.0
C22.25TW	22.25	2.13	130.0
C23.75TW	23.75	2.13	148.0
C27.75TW	27.75	2.13	172.0
C29.0TW	29.00	2.13	190.0

Chain: S856 — F = 2.63

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C20.0TW	20.00	2.63	170.0
C21.5TW	21.50	2.63	187.0
C26.0TW	26.00	2.63	200.0
C27.75TW	27.75	2.63	218.0
C29.5TW	29.50	2.63	225.0
C30.0TW	30.00	2.63	236.0

Chain: 955 — F = 0.69

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C08.0TW	8.00	0.69	24.0
C18.75TW	18.75	0.69	65.0

Chain: 720 — F = 1.00

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C15.0TW	15.00	1.00	62.0
C15.5TW	15.50	1.00	65.0
C18.25TW	18.25	1.00	85.0

Segmental Hubs

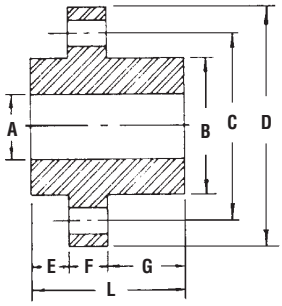
Segmental sprockets greatly reduce the labor costs as well as the downtime associated with replacing worn standard type sprockets. Worn segments can be replaced by simply disassembling the unit, eliminating the need to remove shaft and or bearing assemblies as well as the need to re-align the hub.

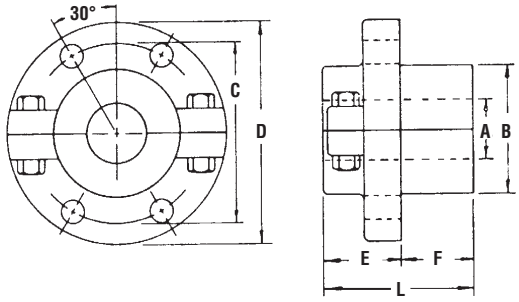
Solid Hub Bodies

Solid hub bodies are recommended for new installations. They are available precisely machined of high quality cast iron or USA grade alloy steel.

Split Hub Bodies

Split hubs can be easily installed on existing installations without the need to remove the shaft, bearings or the chain. They are available precisely machined of high quality cast iron or USA grade alloy steel.





Steel Solid Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10	12.00	1.94	4.94	4.250	6.00
MUS12	14.50	1.94	5.94	4.250	6.00
MUS16	18.50	1.94	8.44	3.250	8.00
MUS20	22.50	2.44	9.94	5.000	9.50
MUS25	27.50	1.94	8.44	5.500	11.00
MUS35	38.00	1.94	8.44	5.500	11.00

Cast Solid Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10C	12.00	1.94	4.44	4.250	6.00
MUS12C	14.50	1.94	4.94	4.250	6.00
MUS16C	18.50	1.94	6.94	3.250	8.00
MUS20C	22.50	2.44	6.94	5.000	9.50

Steel Split Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS12S	14.50	1.94	4.94	6.750	7.75
MUS16S	18.50	1.94	5.94	6.750	7.75
MUS20S	22.50	1.94	8.94	6.750	8.75
MUS25S	27.50	1.94	7.94	6.750	8.75
MUS35S	38.00	1.94	8.94	6.750	8.75

★ Maximum bores shown are maximum bores with standard keyseat and setscrew.

Cast Split Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10SC	12.00	1.94	2.44	5.625	5.625
MUS12SC	14.50	1.94	3.94	5.625	7.00
MUS16SC	18.50	1.94	4.94	6.500	8.25
MUS20SC	22.50	2.44	7.44	4.375	11.12

Segmental Rim Sprockets and Traction Wheels

Cast Rims

Each traction wheel rim and sprocket rim is induction hardened to the highest practical hardness around the entire circumference. The hardness depth is controlled to give the longest wear life, yet leaving the interior tough and ductile - perfect qualities for absorbing the impact and shock loads encountered in elevator - conveyor service.

Segmental sprocket rims can be reversed (back side of tooth becomes the working face), in order to maximize wear.

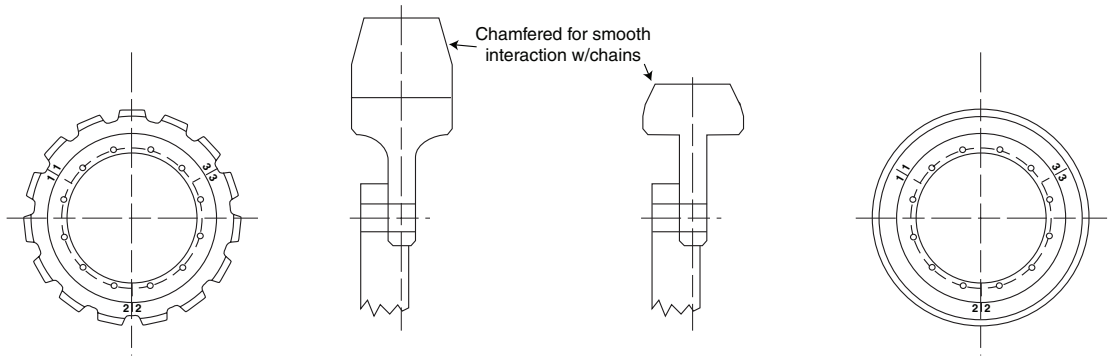
Segmental traction wheel rims can be easily installed, no need to even remove the chain in order to replace worn out rims. No burning or cutting is necessary.

The “T” head traction wheel design moves the center of the chain load more closely over the body flange, thus reducing the possibility of hub fatigue problems.

Segmental rim traction wheels are split with cuts in the rims that are made diagonally. These diagonal cuts eliminate the possibility of the segments spalling or chipping at the line of split as a result of chain bushing or barrel impact.

The sides of the segmental traction wheel and sprocket rims are chamfered to allow the chain to “enter” and “leave” smoothly without damaging the chain components.

All rims are furnished with high strength UNC thread nuts and bolts as standard.



Sprocket Rims | Sprocket Cross Section | Traction Wheel Cross Section | Traction Wheel Rims

Available Cast Traction Wheel Rims

Rex Chain No.	Link-Belt Chain No.	No. of Teeth	Use Body No.*	Pitch Dia.	Wt. Each Lbs.	Pitch Dia.
S110 A102B S102B S102-1/2 S102-1/2	SBS110 C102B SBS102B C102-1/2 SBS102-1/2	24	16	45.97	1.75	115
ES111 A111	SBX856 SBX2857	22	16	33.45	2.25	110
		24	16	34.47		130
		26	20	39.49		140
		30	20	45.54		165
RS856 ER857 ER956	SBX856 SBX2857	20	12	38.36	2.75	90
		22	16	42.16		115
		24	16	45.97		145
		26	20	49.78		155
		28	20	53.89		170
		30	20	57.40		185
ER859 ER864	SBX2856 SBX2864	24	16	45.97	3.50	165
		26	20	49.78		185
		30	20	57.40		215
		36	20	68.84		265
		42	35	80.29		300
		49	35	93.65		375

Keyways and Setscrews

Keyseating, Keys and Setscrews

All Martin bored-to-size Cast Iron Sprockets include a keyway and two setscrews. All parts are shipped less key stock. Keyway and setscrew sizes are supplied according to the table below, unless specified. Our standard setscrew locations are one over the keyway and one at 90 degrees.

Standard Keyways and Setscrews

Bore (Inches)	Keyway Width × Depth	Diameter of Screw	Bore (Inches)	Keyway Width × Depth	Diameter of Screw
0.50 to 0.56	0.13 × 0.06	#10	2.31 to 2.75	0.63 × 0.31	0.63
0.63 to 0.88	0.19 × 0.09	0.25	2.81 to 3.25	0.75 × 0.38	0.63
0.94 to 1.25	0.25 × 0.13	0.31	5.31 to 3.75	0.88 × 0.44	0.75
1.31 to 1.38	0.31 × 0.16	0.38	3.81 to 4.50	1.00 × 0.50	0.75
1.44 to 1.75	0.38 × 0.19	0.38	4.56 to 5.50	1.25 × 0.63	0.88
1.81 to 2.25	0.50 × 0.25	0.50	5.56 to 6.50	1.50 × 0.75	1.00

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Stock Gears







Spur Gears



Bevel Gears



Miter Gears



Worm and Worm Gears



Gear Rack

Martin

“Made-To-Order” Gears









Stock Gears
Numbering System

Martin

Letters (Prefix) Indicate Material and Type Gear.
Letters (Suffix) Indicate Hardened, Number of Threads, Direction of Rotation and KW and SS.
Numbers Indicate Pitch, Number of Teeth, and Ratio (Suffix).



Spur Gears

S=Steel
TS=Steel 20°
C=Cast
TC=Cast 20°
H=Hardened Teeth
NM=Non-Metallic
Note: Pressure Angle is Shown as a Suffix to Part Number of All Our Spur Gears.

Examples
S620-14½° (Steel 6P 20T-14½°PA)
TS620-20° (Steel 6P 20T-20°PA)
C660-14½° (Cast 6P 60T-14½°PA)
TC660-20° (Cast 6P 60T-20°PA)
S620H-14½° (Steel 6P 20T-Hardened 14½°PA)
NM620-14½° (Non-Metallic 6P 20T-14½°PA)



Rack

R=Rack — Steel
RA=Rack — Steel Heavy Backing
TR=Rack — Steel 20° Heavy Backing
R20=Rack — Steel 20° Wide Face

Examples
R-6X2 (14½° STD Backing 6PX2' Long)
RA-6X4 (14½° Heavy Backing 6PX4' Long)
TR-6X6 (20° STD Width 6PX6 Long)
R20-6X6 (20° Wide Face 6PX6' Long)



Bevel Gears

B=Bevel — Cast Iron Gears
B=Bevel — Steel Pinions
BS=Bevel — Steel Gears
BS=Bevel — Steel Pinions
Note: B Steel Pinions May Run With BS Gears of Same Ratio

Examples
B1040-2 (Cast 10P 40T 2:1 Ratio)
B1020-2 (Steel 10P 20T 2:1 Ratio)
BS1040-2 (Steel 10P 40T 2:1 Ratio)
BS1020-2 (Steel 10P 20T 2:1 Ratio)



Miter Gears

M=Miter — Steel Gears
A or B=Larger Bore (Suffix)
HM=Miter-Hardened Teeth
K=KW & SS

Examples
M824 (Steel 8P 24T)
M824A (Steel 8P 24T Larger Bore)
M2424BR (Brass 24P 24T)
HM1020 (Steel-Hardened Teeth 10P 20T)
HMK1020 (Steel-Hardened 10P 20T With KW & SS)



Worm

W=Worm — Steel
WH=Worm — Steel With Hub Projection
WG=Worm — Steel Hardened Ground Threads
WHG=Worm — Steel Hardened Ground Threads With Hub Projection
L=(Prefix) Longer Face
D or Q=(Suffix) Double or Quadruple Thread
R=Right Hand

Examples
W6R (Steel 6P Right Hand)
WH6R (Steel with Hub Projection 6P Right Hand)
WG6R (Steel-Hardened Ground Threads 6P Right Hand
WHG6R (Steel with Hub Projection Hardened Ground Threads 6P Right Hand)
LW6R Steel Long Face 6P Right Hand)
W6DR (Steel 6P Double Thread Right Hand)



Worm Gears

W=Worm Gear — Cast Iron
WB=Worm Gear — Bronze
D or Q=Double or Quadruple Thread (Suffix)
R=Right Hand (Suffix)

Examples
W660R (Cast Iron 6P 60T Right Hand)
WB660R (Bronze 6P 60T Right Hand)
W660DR (Cast Iron 6P 60T Double Thread Right Hand)

Styles of Spur Gears

Martin Stock Spur Gears are available in five different styles. Steel Gears are furnished in plain style and plain style with hub. Cast gears are furnished, plain with hub, web with lightening holes, and spoke. Cast gears are machined on all operating surfaces. Martin cast gears are cast with larger hub to provide extra strength and to allow for larger bores.



Type A
- Plain Without Hubs
- All Steel



Type B_1
- Web
- All Steel
- Cast



Type B
- Plain With Hubs
- All Steel
- Cast



Type B_2
- Web With Lighten Holes
- All Steel
- Cast



Type B_3
- Spoke Style
- Cast

3 DP
3" Face

Steel Stock Spur Gears
14½° Pressure Angle



Type A
Plain Without Hub



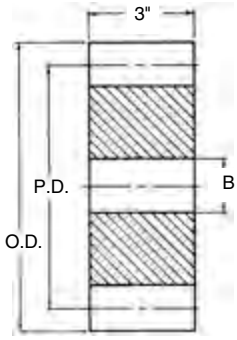
Type B
Plain With Hub



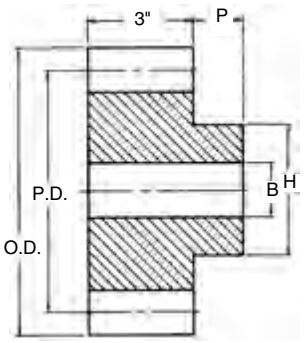
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Web



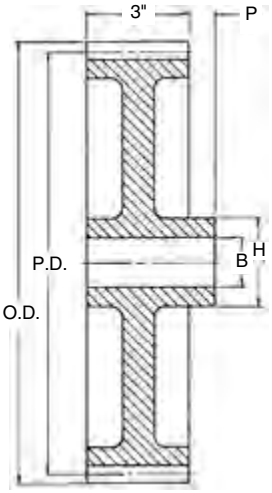
Type B_2
Web With
Lighten Holes



Type A



Type B



Type B_1, B_2

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S311	14½	4.000¥†	4.666	A	1 5/16	2	–	–	12.0
12	S312	14½	4.000¥	4.666	A	1 5/16	2	–	–	11.0
13	S313	14½	4.333	5.000	A	1 5/16	2¼	–	–	10.7
14	S314	14½	4.667	5.333	A	1 5/16	2⅜	–	–	12.8
15	S315	14½	5.000	5.666	A	1 5/16	2¾	–	–	14.8
16	S316	14½	5.333	6.000	A	1 5/16	2 13/16	–	–	17.0
18	S318	14½	6.000	6.666	A	1 5/16	3¼	–	–	22.0
20	S320	14½	6.667	7.333	A	1 7/16	3⅝	–	–	27.4
21	S321	14½	7.000	7.666	A	1 7/16	3⅞	–	–	30.7
24	S324	14½	8.000	8.666	B	1 7/16	3¼	5½	1¼	48.2
30	S330	14½	10.000	10.666	B	1 9/16	3⅞	6¼	1¼	74.5
36	S336	14½	12.000	12.666	B	1 9/16	4⅛	6½	1¾	114.0
42	S342	14½	14.000	14.666	B1	1 9/16	4⅛	6½	1¾	106.0
48	S348	14½	16.000	16.666	B1	1 9/16	4⅛	6½	1¾	120.0
54	S354	14½	18.000	18.666	B2	1 9/16	4⅛	6½	1¾	134.0
60	S360	14½	20.000	20.666	B2	1 9/16	4⅛	6½	1¾	150.0
72	S372	14½	24.000	24.666	B2	1 9/16	4½	7	1¾	180.0
84	S384	14½	28.000	28.666	B2	1 9/16	4½	7	1¾	215.0
96	S396	14½	32.000	32.666	B2	1 11/16	4½	7	1¾	264.0
108	S3108	14½	36.000	36.666	B2	1 15/16	4½	7	1¾	305.0
120	S3120	14½	40.000	40.666	B2	1 15/16	5	7½	1¾	367.0

* Recommended Maximum Bore With Keyway and Setscew.
† Enlarged Pitch Diameter with Special Tooth Form.
¥ 4" Face.

14½ P.A. Gears Will Not Operate With 20° P.A.

Cast Iron Stock Spur Gears

14½° Pressure Angle

3 DP
3" Face



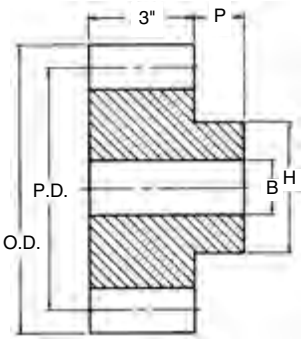
Type B
Plain With Hub



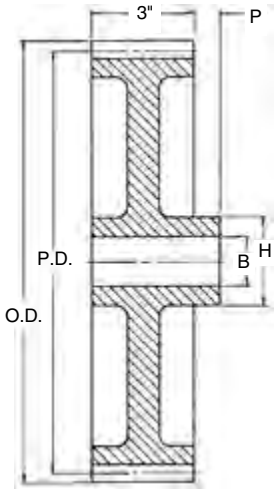
Type B_2
Web With
Lighten Holes



Type B_3
Spoke Style



Type B



Type B_2, B_3

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
24	C324	14½	8.000	8.666	B	1 7/16	2 11/16	4½	1¼	40.4
28	C328	14½	9.333	10.000	B	1 7/16	3 3/16	5¼	1¼	54.2
30	C330	14½	10.000	10.666	B	1 7/16	3 3/16	5¼	1¼	57.1
32	C332	14½	10.667	11.333	B	1 7/16	3 3/16	5¼	1¼	62.4
36	C336	14½	12.000	12.666	B_2	1 7/16	3¼	5½	1¾	71.3
40	C340	14½	13.333	14.000	B_2	1 7/16	3¼	5½	1¾	75.9
42	C342	14½	14.000	14.666	B_2	1 7/16	3¼	5½	1¾	79.5
45	C345	14½	15.000	15.666	B_2	1 7/16	3¼	5½	1¾	85.0
48	C348	14½	16.000	16.666	B_3	1 9/16	3¼	5½	1¾	92.9
54	C354	14½	18.000	18.666	B_3	1 9/16	3¼	5½	1¾	104.0
60	C360	14½	20.000	20.666	B_3	1 9/16	3¼	5½	1¾	115.0
72	C372	14½	24.000	24.666	B_3	1 9/16	3 11/16	6	1¾	153.0
75	C375	14½	25.000	25.666	B_3	1 9/16	3 11/16	6	1¾	155.0
84	C384	14½	28.000	28.666	B_3	1 11/16	3 11/16	6	1¾	178.0
90	C390	14½	30.000	30.666	B_3	1 11/16	3 11/16	6	1¾	185.0
96	C396	14½	32.000	32.666	B_3	1 11/16	3 11/16	6	1¾	205.0
105	C3105	14½	35.000	35.666	B_3	1 11/16	3 11/16	6	1¾	216.0
108	C3108	14½	36.000	36.666	B_3	1 15/16	3 11/16	6	1¾	228.0
120	C3120	14½	40.000	40.666	B_3	1 15/16	4⅛	6½	1¾	226.0

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

4 DP
2" Face

Steel Stock Spur Gears
14½° Pressure Angle



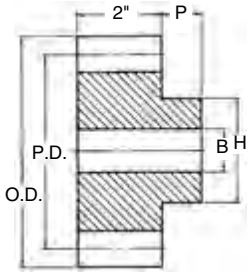
Type B
Plain With Hub



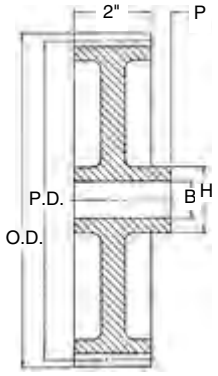
Type B_1
Web



Type B_2
Web With
Lighten Holes



Type B



Type B_1, B_2

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S411	14½	3.000†	3.500	B	1⅛	1 5/16	2¼	⅞	4.0
12	S412	14½	3.000	3.500	B	1⅛	1 5/16	2¼	⅞	3.9
13	S413	14½	3.250	3.750	B	1⅛	1 5/16	2¼	⅞	4.6
14	S414	14½	3.500	4.000	B	1⅛	1⅜	2¾	⅞	5.7
15	S415	14½	3.750	4.250	B	1⅛	1¾	3	⅞	6.8
16	S416	14½	4.000	4.500	B	1⅛	1¾	3¼	⅞	8.0
17	S417	14½	4.250	4.750	B	1⅛	2	3½	⅞	9.2
18	S418	14½	4.500	5.000	B	1⅛	2¼	3¾	⅞	10.4
19	S419	14½	4.750	5.250	B	1⅛	2¼	4	⅞	10.5
20	S420	14½	5.000	5.500	B	1⅛	2⅜	4¼	⅞	13.4
21	S421	14½	5.250	5.750	B	1⅛	2⅜	4½	⅞	14.9
22	S422	14½	5.500	6.000	B	1⅛	2¾	4¾	⅞	16.5
24	S424	14½	6.000	6.500	B	1⅛	2¾	4¾	1½	22.8
26	S426	14½	6.500	7.000	B	1⅛	2¾	4¾	1½	24.8
28	S428	14½	7.000	7.500	B	1⅛	2¾	4¾	1½	27.8
30	S430	14½	7.500	8.000	B	1¼	2¾	4¾	1½	31.0
32	S432	14½	8.000	8.500	B	1¼	2¾	4¾	1½	34.4
36	S436	14½	9.000	9.500	B	1¼	2¾	4¾	1½	41.7
40	S440	14½	10.000	10.500	B	1¼	3⅛	5⅛	1½	51.8
42	S442	14½	10.500	11.000	B	1¼	3⅛	5⅛	1½	56.0
44	S444	14½	11.000	11.500	B	1¼	3⅛	5⅛	1½	60.8
48	S448	14½	12.000	12.500	B	1¼	3⅛	5⅛	1½	70.8
54	S454	14½	13.500	14.000	B_1	1¼	3	5	1½	57.4
56	S456	14½	14.000	14.500	B_1	1¼	3	5	1½	59.9
60	S460	14½	15.000	15.500	B_2	1¼	3	5	1½	62.8
64	S464	14½	16.000	16.500	B_2	1¼	3	5	1½	66.2
72	S472	14½	18.000	18.500	B_2	1¼	3¼	5½	1½	82.9
80	S480	14½	20.000	20.500	B_2	1⅜	3¼	5½	1½	95.0
84	S484	14½	21.000	21.500	B_2	1⅜	3¼	5½	1½	92.0
88	S488	14½	22.000	22.500	B_2	1⅜	3¾	6⅛	1¾	95.8
96	S496	14½	24.000	24.500	B_2	1⅜	3¾	6⅛	1¾	124.0
120	S4120	14½	30.000	30.500	B_2	1⅜	3⅜	6	1¾	155.0
144	S4144	14½	36.000	36.500	B_2	1⅜	4	6½	1¾	208.0

* Recommended Maximum Bore With Keyway and Set Screw.
† Enlarged Pitch Diameter with Special Tooth Form.

14½° P.A. Gears Will Not Operate With 20° P.A.

Cast Iron Stock Spur Gears

14½° Pressure Angle

4 DP
2" Face



Type B
Plain With Hub



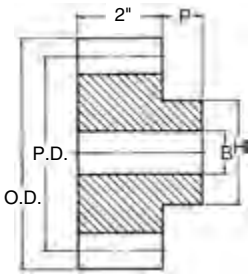
Type B_1
Web



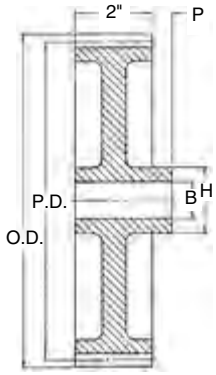
Type B_2
Web With
Lighten Holes



Type B_3
Spoke Style



Type B



Type B_1, B_2, B_3

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
24	C424	14½	6.000	6.500	B	1⅛	2⅛	3½	1½	17.0 v
28	C428	14½	7.000	7.500	B_1	1¼	2⅛	3½	1½	20.2
30	C430	14½	7.500	8.000	B_1	1¼	2⅛	3½	1½	21.1
32	C432	14½	8.000	8.500	B_1	1¼	2⅛	3½	1½	23.2
36	C436	14½	9.000	9.500	B_2	1¼	2¼	3¾	1½	30.5
40	C440	14½	10.000	10.500	B_2	1¼	2½	4	1½	26.4
42	C442	14½	10.500	11.000	B_2	1¼	2½	4	1½	33.9
44	C444	14½	11.000	11.500	B_2	1¼	2½	4	1½	32.0
48	C448	14½	12.000	12.500	B_3	1¼	2½	4	1½	38.4
52	C452	14½	13.000	13.500	B_3	1¼	2½	4	1½	42.5
54	C454	14½	13.500	14.000	B_3	1¼	2½	4	1½	44.7
56	C456	14½	14.000	14.500	B_3	1¼	2½	4	1½	46.7
60	C460	14½	15.000	15.500	B_3	1¼	2½	4	1½	49.5
64	C464	14½	16.000	16.500	B_3	1¼	2½	4	1½	54.5
68	C468	14½	17.000	17.500	B_3	1¼	2½	4	1½	56.0
72	C472	14½	18.000	18.500	B_3	1¼	2 1/16	4½	1½	63.0
80	C480	14½	20.000	20.500	B_3	1⅜	2 1/16	4½	1½	72.0
84	C484	14½	21.000	21.500	B_3	1⅜	2 1/16	4½	1½	73.0
88	C488	14½	22.000	22.500	B_3	1⅜	2 1/16	4½	1¾	75.0
96	C496	14½	24.000	24.500	B_3	1⅜	2 1/16	4½	1¾	86.0
100	C4100	14½	25.000	25.500	B_3	1⅜	2 1/16	4½	1¾	91.0
104	C4104	14½	26.000	26.500	B_3	1⅜	2 1/16	4½	1¾	105.0
112	C4112	14½	28.000	28.500	B_3	1⅜	3⅛	5	1¾	108.0
120	C4120	14½	30.000	30.500	B_3	1⅜	3⅛	5	1¾	115.0
132	C4132	14½	33.000	33.500	B_3	1⅜	3⅛	5	1¾	129.0
144	C4144	14½	36.000	36.500	B_3	1⅜	3¼	5½	1¾	140.0

* Recommended Maximum Bore With Keyway and Set Screw.

14½° P.A. Gears Will Not Operate With 20° P.A.

5 DP
1¾" Face

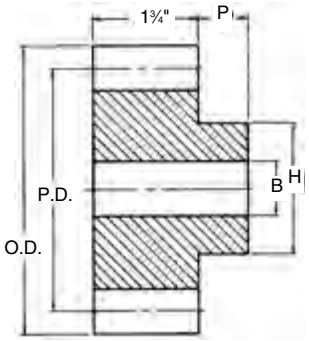
Steel Stock Spur Gears
14½° Pressure Angle



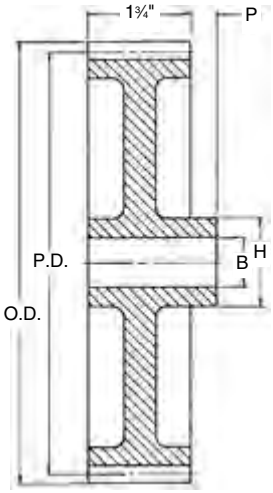
Type B
Plain With Hub



Type B_2
Web With Lighten Holes



Type B



Type B_2

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S511	14½	2.400†	2.800	B	1 1/16	1 1/16	1 25/32	7/8	2.0
12	S512	14½	2.400	2.800	B	1 1/16	1 1/16	1 25/32	7/8	2.0
13	S513	14½	2.600	3.000	B	1 1/16	1 1/4	2	7/8	2.6
14	S514	14½	2.800	3.200	B	1 1/16	1 5/16	2 3/16	7/8	3.1
15	S515	14½	3.000	3.400	B	1 1/16	1 7/16	2 3/8	7/8	3.7
16	S516	14½	3.200	3.600	B	1 1/16	1 5/8	2 19/32	7/8	4.5
17	S517	14½	3.400	3.800	B	1 1/16	1 13/16	2 7/8	7/8	5.2
18	S518	14½	3.600	4.000	B	1 1/16	1 7/8	3	7/8	5.9
19	S519	14½	3.800	4.200	B	1 1/16	2 1/8	3 1/4	7/8	6.7
20	S520	14½	4.000	4.400	B	1 1/16	2 1/4	3 3/8	7/8	7.5
21	S521	14½	4.200	4.600	B	1 1/16	2 1/4	3 3/8	7/8	8.1
22	S522	14½	4.400	4.800	B	1 1/16	2 1/4	3 3/8	7/8	8.8
23	S523	14½	4.600	5.000	B	1 1/16	2 1/4	3 3/8	7/8	9.5
24	S524	14½	4.800	5.200	B	1 1/16	2 1/4	3 3/8	1 1/4	11.0
25	S525	14½	5.000	5.400	B	1 1/16	2 1/4	3 3/8	1 1/4	11.8
26	S526	14½	5.200	5.600	B	1 1/16	2 1/4	3 3/8	1 1/4	12.9
28	S528	14½	5.600	6.000	B	1 1/16	2 1/4	3 3/8	1 1/4	14.3
30	S530	14½	6.000	6.400	B	1 1/16	2 1/4	3 3/8	1 1/4	16.0
35	S535	14½	7.000	7.400	B	1 3/16	2 5/8	4 1/4	1 1/4	22.8
40	S540	14½	8.000	8.400	B	1 3/16	2 5/8	4 1/4	1 1/4	28.5
45	S545	14½	9.000	9.400	B	1 3/16	2 11/16	4 5/8	1 1/4	35.0
50	S550	14½	10.000	10.400	B	1 3/16	2 13/16	4 3/4	1 1/4	43.6
55	S555	14½	11.000	11.400	B	1 3/16	2 13/16	4 3/4	1 1/4	52.0
60	S560	14½	12.000	12.400	B	1 3/16	2 13/16	4 3/4	1 1/4	60.9
70	S570	14½	14.000	14.400	B_2	1 3/16	3 1/8	5	1 1/4	48.4
80	S580	14½	16.000	16.400	B_2	1 3/16	3 1/8	5	1 1/4	57.0
90	S590	14½	18.000	18.400	B_2	1 3/16	3 1/8	5	1 1/4	67.0
100	S5100	14½	20.000	20.400	B_2	1 5/16	3 1/4	5 1/2	1 1/2	62.0
110	S5110	14½	22.000	22.400	B_2	1 5/16	3 1/4	5 1/2	1 1/2	87.6
120	S5120	14½	24.000	24.400	B_2	1 5/16	3 1/2	6 1/8	1 1/2	113.0

* Recommended Maximum Bore With Keyway and Setscrew.
† Enlarged Pitch Diameter with Special Tooth Form.

14½° P.A. Gears Will Not Operate With 20° P.A.

Martin

Cast Iron Stock Spur Gears

14½° Pressure Angle

5 DP
1¾" Face



Type B
Plain With Hub



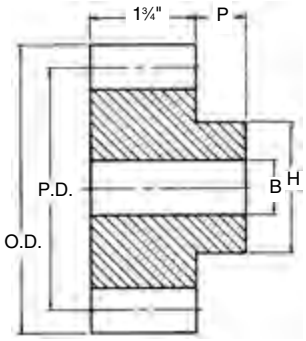
Type B_1
Web



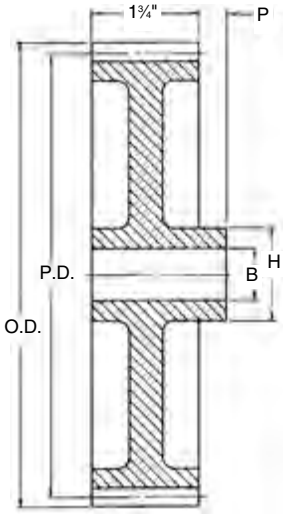
Type B_2
Web With
Lighten Holes



Type B_3
Web With
Spokes



Type B



Type B_1, B_2, B_3

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
24	C524	14½	4.800	5.200	B	1 1/16	2 1/16	3¼	1¼	9.9
25	C525	14½	5.000	5.400	B	1 1/16	2 1/16	3¼	1¼	10.6
28	C528	14½	5.600	6.000	B_1	1 1/16	2 1/16	3¼	1¼	12.1
30	C530	14½	6.000	6.400	B_1	1 1/16	2 1/16	3¼	1¼	13.9
32	C532	14½	6.400	6.800	B_1	1 1/16	2 1/16	3¼	1¼	13.5
35	C535	14½	7.000	7.400	B_1	1 3/16	2 1/16	3¼	1¼	16.9
36	C536	14½	7.200	7.600	B_1	1 3/16	2 1/16	3¼	1¼	15.5
40	C540	14½	8.000	8.400	B_1	1 3/16	2 1/16	3¼	1¼	17.4
45	C545	14½	9.000	9.400	B_2	1 3/16	2 1/16	3¼	1¼	20.3
48	C548	14½	9.600	10.000	B_2	1 3/16	2 5/16	3¾	1¼	25.2
50	C550	14½	10.000	10.400	B_2	1 3/16	2 5/16	3¾	1¼	23.7
54	C554	14½	10.800	11.200	B_2	1 3/16	2 5/16	3¾	1¼	25.1
55	C555	14½	11.000	11.400	B_2	1 3/16	2 5/16	3¾	1¼	26.0
60	C560	14½	12.000	12.400	B_2	1 3/16	2 5/16	3¾	1¼	30.6
64	C564	14½	12.800	13.200	B_2	1 3/16	2 5/16	3¾	1¼	31.2
66	C566	14½	13.200	13.600	B_2	1 3/16	2 5/16	3¾	1¼	30.8
70	C570	14½	14.000	14.400	B_3	1 3/16	2 9/16	4	1¼	34.5
72	C572	14½	14.400	14.800	B_3	1 3/16	2 9/16	4	1¼	35.0
75	C575	14½	15.000	15.400	B_3	1 3/16	2 9/16	4	1¼	36.7
80	C580	14½	16.000	16.400	B_3	1 3/16	2 9/16	4	1¼	40.8
84	C584	14½	16.800	17.200	B_3	1 3/16	2 9/16	4	1¼	40.0
90	C590	14½	18.000	18.400	B_3	1 3/16	2 9/16	4	1¼	45.4
96	C596	14½	19.200	19.600	B_3	1 3/16	2 9/16	4	1¼	48.6
100	C5100	14½	20.000	20.400	B_3	1 1/16	2 5/8	4½	1½	54.4
120	C5120	14½	24.000	24.400	B_3	1 1/16	2 13/16	4¾	1½	56.1
130	C5130	14½	26.000	26.400	B_3	1 1/16	2 13/16	4¾	1½	70.2

* Recommended maximum bore with keyway and set screw.
Quotes for large quantity discontinued cast iron sizes, contact your nearest Martin Facility.

14½° P.A. Gears Will Not Operate With 20° P.A.

6 DP
1½" Face

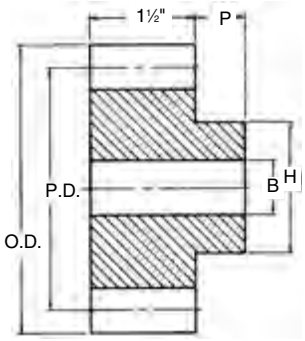
Steel Stock Spur Gears
14½° Pressure Angle



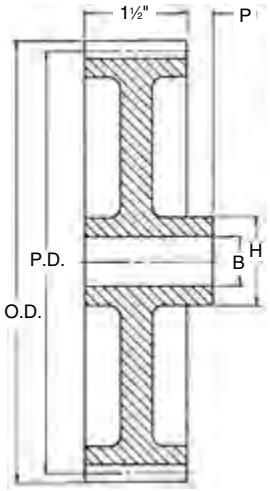
Type B
Plain With Hub



Type B_2
Web With
Lighten Holes



Type B



Type B_2

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S611	14½	2.000†	2.333	B	1	**	1½	⅞	1.1
12	S612	14½	2.000	2.333	B	1	**	1½	⅞	1.1
14	S614	14½	2.333	2.666	B	1	1 1/16	1 13/16	⅞	1.8
15	S615	14½	2.500	2.833	B	1	1¼	2	⅞	2.2
16	S616	14½	2.666	3.000	B	1	1 5/16	2 5/32	⅞	2.6
18	S618	14½	3.000	3.333	B	1	1½	2½	⅞	3.5
20	S620	14½	3.333	3.666	B	1	1¾	2 27/32	⅞	4.6
21	S621	14½	3.500	3.833	B	1	1⅞	3	⅞	5.1
22	S622	14½	3.666	4.000	B	1	1⅞	3	⅞	5.5
24	S624	14½	4.000	4.333	B	1⅛	1⅞	3	1	6.5
27	S627	14½	4.500	4.833	B	1⅛	1⅞	3	1	6.6
28	S628	14½	4.666	5.000	B	1⅛	1⅞	3	1	8.3
30	S630	14½	5.000	5.333	B	1⅛	2"	3⅛	1	9.5
32	S632	14½	5.333	5.666	B	1⅛	2"	3⅛	1	10.7
33	S633	14½	5.500	5.833	B	1⅛	2⅛	3¼	1	11.3
36	S636	14½	6.000	6.333	B	1⅛	2⅛	3¼	1	13.3
39	S639	14½	6.500	6.833	B	1⅛	2½	4	1	16.6
40	S640	14½	6.666	7.000	B	1⅛	2½	4	1	17.6
42	S642	14½	7.000	7.333	B	1⅛	2½	4	1	18.9
45	S645	14½	7.500	7.833	B	1⅛	2½	4	1	21.3
48	S648	14½	8.000	8.333	B	1⅛	2½	4⅛	1	24.3
52	S652	14½	8.666	9.000	B	1⅛	2⅝	4¼	1	27.9
54	S654	14½	9.000	9.333	B	1⅛	2⅝	4⅜	1	30.4
58	S658	14½	9.666	10.000	B	1⅛	2⅝	4⅜	1	33.9
60	S660	14½	10.000	10.333	B	1¼	2⅝	4⅜	1¼	34.3
64	S664	14½	10.666	11.000	B	1¼	2⅝	4⅜	1¼	42.2
66	S666	14½	11.000	11.333	B	1¼	2⅝	4⅜	1¼	50.0
72	S672	14½	12.000	12.333	B	1¼	2 11/16	4⅜	1¼	53.0
84	S684	14½	14.000	14.333	B_2	1¼	2 11/16	4½	1¼	40.0
96	S696	14½	16.000	16.333	B_2	1¼	2 13/16	5⅛	1¼	43.8
108	S6108	14½	18.000	18.333	B_2	1¼	2 13/16	5⅛	1¼	53.0
120	S6120	14½	20.000	20.333	B_2	1¼	2 13/16	5⅛	1½	63.2
132	S6132	14½	22.000	22.333	B_2	1¼	2 13/16	5⅛	1½	68.3
144	S6144	14½	24.000	24.333	B_2	1¼	3⅛	5	1½	82.7

* Recommended maximum bore with keyway and set screw.
** Check application with factory.
† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

Martin

Cast Iron Stock Spur Gears

14½° Pressure Angle

6 DP
1½" Face



Type B Plain With Hub



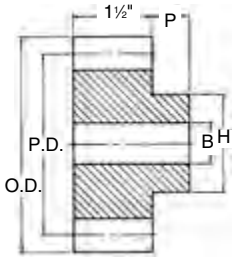
Type B_1 Web



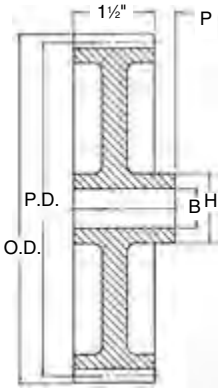
Type B_2
Web With Lighten Holes



Type B_3
Spoke Style



Type B



Type B_1, B_2, B_3

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
• 32	C632	14½	5.333	5.666	B_1	1⅛	1 7/16	2½	1	7.2
• 40	C640	14½	6.666	7.000	B_1	1⅛	1 13/16	3	1	11.9
• 42	C642	14½	7.000	7.333	B_1	1⅛	1 13/16	3	1	13.0
• 48	C648	14½	8.000	8.333	B_2	1⅛	1 13/16	3	1	12.1
• 54	C654	14½	9.000	9.333	B_2	1⅛	2 1/16	3¼	1	14.4
• 60	C660	14½	10.000	10.333	B_3	1¼	2 1/16	3¼	1¼	17.0
• 64	C664	14½	10.666	11.000	B_3	1¼	2 1/16	3¼	1¼	18.5
66	C666	14½	11.000	11.333	B_3	1¼	2 1/16	3¼	1¼	19.0
70	C670	14½	11.666	12.000	B_3	1¼	2 1/16	3¼	1¼	20.6
72	C672	14½	12.000	12.333	B_3	1¼	2 3/16	3½	1¼	23.7
75	C675	14½	12.500	12.833	B_3	1¼	2 3/16	3½	1¼	25.4
80	C680	14½	13.333	13.666	B_3	1¼	2 3/16	3½	1¼	25.8
84	C684	14½	14.000	14.333	B_3	1¼	2 3/16	3½	1¼	25.0
90	C690	14½	15.000	15.333	B_3	1¼	2 3/16	3½	1¼	25.8
96	C696	14½	16.000	16.333	B_3	1¼	2 3/16	3½	1¼	28.0
108	C6108	14½	18.000	18.333	B_3	1¼	2 5/16	3¾	1¼	32.0
120	C6120	14½	20.000	20.333	B_3	1¼	2 5/16	3¾	1½	34.8
132	C6132	14½	22.000	22.333	B_3	1¼	2 5/16	3¾	1½	43.4
144	C6144	14½	24.000	24.333	B_3	1¼	2 9/16	4	1½	45.2
180	C6180	14½	30.000	30.333	B_3	1¼	2 9/16	4	1½	58.3

* Recommended maximum bore with keyway and set screw
• Consult Factory.

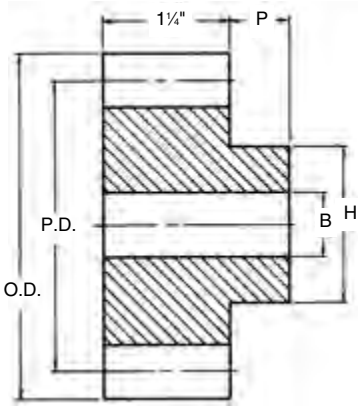
Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S611BS 1	14½	2.000	2.333	B	1	¼ × ⅛	(1) 1/4-20 @ 90	1½	⅞	1.10
12	S612BS 1	14½	2.000	2.333	B	1	¼ × ⅛	(1) 1/4-20 @ 90	1½	⅞	1.10
14	S614BS 1	14½	2.333	2.667	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1 13/16	⅞	1.80
14	S614BS 1-1/8	14½	2.333	2.667	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	1 13/16	⅞	1.80
15	S615BS 1	14½	2.500	2.833	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2	⅞	2.20
15	S615BS 1-1/8	14½	2.500	2.833	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2	⅞	2.20
15	S615BS 1-3/16	14½	2.500	2.833	B	1 3/16	¼ × ⅛	(1) 5/16-18 @ 90	2	⅞	2.20
15	S615BS 1-1/4	14½	2.500	2.833	B	1¼	¼ × ⅛	(1) 5/16-18 @ 90	2	⅞	2.20
16	S616BS 1	14½	2.667	3.000	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 5/32	⅞	2.60
16	S616BS 1-1/8	14½	2.667	3.000	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2 5/32	⅞	2.60
16	S616BS 1-3/16	14½	2.667	3.000	B	1 3/16	¼ × ⅛	(1) 5/16-18 @ 90	2 5/32	⅞	2.60
16	S616BS 1-1/4	14½	2.667	3.000	B	1¼	¼ × ⅛	(1) 5/16-18 @ 90	2 5/32	⅞	2.60
18	S618BS 1	14½	3.000	3.333	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 ½	⅞	3.50
18	S618BS 1-1/8	14½	3.000	3.333	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2 ½	⅞	3.50
18	S618BS 1-3/16	14½	3.000	3.333	B	1 3/16	¼ × ⅛	(1) 5/16-18 @ 90	2 ½	⅞	3.50
18	S618BS 1-1/4	14½	3.000	3.333	B	1¼	¼ × ⅛	(1) 5/16-18 @ 90	2 ½	⅞	3.50
20	S620BS 1	14½	3.333	3.667	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 27/32	⅞	4.60
20	S620BS 1-1/8	14½	3.333	3.667	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2 27/32	⅞	4.60
20	S620BS 1-3/16	14½	3.333	3.667	B	1 3/16	¼ × ⅛	(1) 5/16-18 @ 90	2 27/32	⅞	4.60
20	S620BS 1-1/4	14½	3.333	3.667	B	1¼	¼ × ⅛	(1) 5/16-18 @ 90	2 27/32	⅞	4.60

14½° P.A. Gears Will Not Operate With 20° P.A.

8 DP
1¼" Face

Steel Stock Spur Gears
14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S811	14½	1.500†	1.750	B	¾	**	1⅛	¾	0.5
12	S812	14½	1.500	1.750	B	¾	**	1⅛	¾	0.5
13	S813	14½	1.625	1.875	B	¾	**	1¼	¾	0.7
14	S814	14½	1.750	2.000	B	¾	13/16	1⅜	¾	0.9
15	S815	14½	1.875	2.125	B	⅞	⅞	1½	¾	0.9
16	S816	14½	2.000	2.250	B	⅞	15/16	1⅝	¾	1.1
17	S817	14½	2.125	2.375	B	⅞	1	1¾	¾	1.3
18	S818	14½	2.250	2.500	B	⅞	1⅛	1⅞	¾	1.6
19	S819	14½	2.375	2.625	B	⅞	1¼	2	¾	1.8
20	S820	14½	2.500	2.750	B	⅞	1 5/16	2⅛	¾	2.0
21	S821	14½	2.625	2.875	B	⅞	1 7/16	2¼	¾	2.3
22	S822	14½	2.750	3.000	B	⅞	1⅝	2⅜	¾	2.6
24	S824	14½	3.000	3.250	B	⅞	1⅝	2⅝	1	3.6
26	S826	14½	3.250	3.500	B	⅞	1⅝	2⅝	1	3.9
28	S828	14½	3.500	3.750	B	⅞	1⅝	2⅝	1	4.4
30	S830	14½	3.750	4.000	B	⅞	1¾	2¾	1	5.1
32	S832	14½	4.000	4.250	B	1	1 13/16	2⅞	1	5.6
36	S836	14½	4.500	4.750	B	1	1⅞	3	1	7.0
40	S840	14½	5.000	5.250	B	1	1⅞	3	1	8.3
42	S842	14½	5.250	5.500	B	1	1⅞	3	1	9.0
44	S844	14½	5.500	5.750	B	1	1⅞	3	1	9.7
48	S848	14½	6.000	6.250	B	1	1⅞	3	1	11.3

* Recommended maximum bore with keyway and set screw.
** Check application with factory.
† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

Martin

Cast Iron Stock Spur Gears

14½° Pressure Angle

8 DP
1¼" Face



Type B Plain With Hub



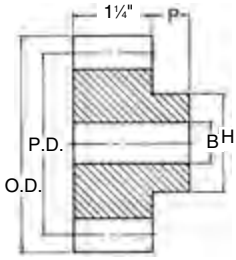
Type B_1 Web



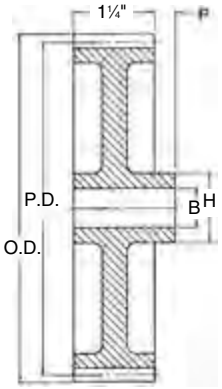
Type B_2
Web With Lighten Holes



Type B_3
Spoke Style



Type B



Type B_1, B_2, B_3

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
• 36	C836	14½	4.500	4.750	B_1	1	1 7/16	2½	1	4.5
• 40	C840	14½	5.000	5.250	B_1	1	1 7/16	2½	1	5.1
• 42	C842	14½	5.250	5.500	B_1	1	1 7/16	2½	1	5.5
• 44	C844	14½	5.500	5.750	B_1	1	1 7/16	2½	1	6.0
52	C852	14½	6.500	6.750	B_1	1	1 11/16	2¾	1	10.3
54	C854	14½	6.750	7.000	B_2	1	1 11/16	2¾	1	8.1
56	C856	14½	7.000	7.250	B_2	1	1 11/16	2¾	1	8.2
60	C860	14½	7.500	7.750	B_2	1	1 11/16	2¾	1	8.8
64	C864	14½	8.000	8.250	B_2	1	1 11/16	2¾	1	11.2
68	C868	14½	8.500	8.750	B_2	1	1 13/16	3"	1	11.5
72	C872	14½	9.000	9.250	B_3	1	1 13/16	3"	1	11.7
76	C876	14½	9.500	9.750	B_3	1	1 13/16	3"	1	12.0
80	C880	14½	10.000	10.250	B_3	1⅛	1 13/16	3"	1⅛	12.2
84	C884	14½	10.500	10.750	B_3	1⅛	1 13/16	3"	1⅛	13.2
88	C888	14½	11.000	11.250	B_3	1⅛	1 13/16	3"	1⅛	13.5
92	C892	14½	11.500	11.750	B_3	1⅛	2 1/16	3¼	1⅛	15.0
96	C896	14½	12.000	12.250	B_3	1⅛	2 1/16	3¼	1⅛	15.8
100	C8100	14½	12.500	12.750	B_3	1⅛	2 1/16	3¼	1⅛	16.5
112	C8112	14½	14.000	14.250	B_3	1⅛	2 1/16	3¼	1⅛	17.7
120	C8120	14½	15.000	15.250	B_3	1⅛	2 1/16	3¼	1⅛	18.4
128	C8128	14½	16.000	16.250	B_3	1⅛	2 3/16	3½	1⅛	21.3
144	C8144	14½	18.000	18.250	B_3	1⅛	2 3/16	3½	1⅛	24.2
160	C8160	14½	20.000	20.250	B_3	1⅛	2 5/16	3¾	1¼	26.6
168	C8168	14½	21.000	21.250	B_3	1⅛	2 5/16	3¾	1¼	28.9

* Recommended maximum bore with keyway and set screw.
• Consult Factory.

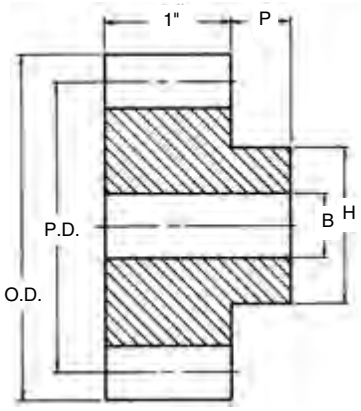
Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S811BS 3/4	14½	1.500	1.750	B	¾	3/16 × 3/32	(1) 10-24 @ 90	1⅛	¾	0.50
12	S812BS 3/4	14½	1.500	1.750	B	¾	3/16 × 3/32	(1) 10-24 @ 90	1⅛	¾	0.50
14	S814BS 3/4	14½	1.750	2.000	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1⅜	¾	0.90
15	S815BS 7/8	14½	1.875	2.125	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1½	¾	1.00
16	S816BS 7/8	14½	2.000	2.250	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1⅝	¾	1.10
16	S816BS 1	14½	2.000	2.250	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1⅝	¾	1.10
18	S818BS 7/8	14½	2.250	2.500	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1⅞	¾	1.60
18	S818BS 1	14½	2.250	2.500	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1⅞	¾	1.60
18	S818BS 1-1/8	14½	2.250	2.500	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	1⅞	¾	1.60
20	S820BS 7/8	14½	2.500	2.750	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	2⅛	¾	2.00
20	S820BS 1	14½	2.500	2.750	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2⅛	¾	2.00
20	S820BS 1-1/8	14½	2.500	2.750	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2⅛	¾	2.00
22	S822BS 7/8	14½	2.750	3.000	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	2⅜	¾	2.60
22	S822BS 1	14½	2.750	3.000	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2⅜	¾	2.60
22	S822BS 1-1/8	14½	2.750	3.000	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2⅜	¾	2.60

14½° P.A. Gears Will Not Operate With 20° P.A.

10 DP
1" Face

Steel Stock Spur Gears
14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S1011	14½	1.200 †	1.400	B	5/8	**	15/16	5/8	0.3
12	S1012	14½	1.200	1.400	B	5/8	**	15/16	5/8	0.3
13	S1013	14½	1.300	1.500	B	5/8	**	1	5/8	0.3
14	S1014	14½	1.400	1.600	B	5/8	5/8	1 1/8	5/8	0.4
15	S1015	14½	1.500	1.700	B	3/4	3/4	1 7/32	5/8	0.5
16	S1016	14½	1.600	1.800	B	3/4	3/4	1 5/16	5/8	0.6
17	S1017	14½	1.700	1.900	B	3/4	13/16	1 3/8	5/8	0.6
18	S1018	14½	1.800	2.000	B	3/4	7/8	1 17/32	5/8	0.8
19	S1019	14½	1.900	2.100	B	3/4	7/8	1 9/16	5/8	0.9
20	S1020	14½	2.000	2.200	B	3/4	1	1 23/32	5/8	1.0
21	S1021	14½	2.100	2.300	B	3/4	1	1 3/4	5/8	1.2
22	S1022	14½	2.200	2.400	B	3/4	1 1/8	1 7/8	5/8	1.3
24	S1024	14½	2.400	2.600	B	3/4	1 1/4	2 1/8	5/8	1.6
25	S1025	14½	2.500	2.700	B	3/4	1 1/2	2 7/32	5/8	1.8
26	S1026	14½	2.600	2.800	B	3/4	1 1/4	2 1/8	5/8	1.9
28	S1028	14½	2.800	3.000	B	3/4	1 1/4	2 1/8	7/8	2.3
30	S1030	14½	3.000	3.200	B	3/4	1 1/4	2 1/8	7/8	2.6
32	S1032	14½	3.200	3.400	B	3/4	1 1/4	2 1/8	7/8	2.9
35	S1035	14½	3.500	3.700	B	3/4	1 5/16	2 1/4	7/8	3.4
36	S1036	14½	3.600	3.800	B	3/4	1 5/16	2 1/4	7/8	3.5
38	S1038	14½	3.800	4.000	B	3/4	1 5/16	2 1/4	7/8	3.8
40	S1040	14½	4.000	4.200	B	7/8	1 5/16	2 1/4	7/8	4.1
42	S1042	14½	4.200	4.400	B	7/8	1 5/16	2 1/4	7/8	4.5
45	S1045	14½	4.500	4.700	B	7/8	1 1/2	2 1/2	7/8	5.3
48	S1048	14½	4.800	5.000	B	7/8	1 1/2	2 1/2	7/8	5.9
50	S1050	14½	5.000	5.200	B	7/8	1 1/2	2 1/2	7/8	6.4
54	S1054	14½	5.400	5.600	B	7/8	1 1/2	2 1/2	7/8	7.8
55	S1055	14½	5.500	5.700	B	7/8	1 1/2	2 1/2	7/8	7.9
60	S1060	14½	6.000	6.200	B	7/8	1 1/2	2 1/2	7/8	8.7

* Recommended maximum bore with keyway and set screw.
** Check application with factory.
† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

Martin

Cast Iron Stock Spur Gears

14½° Pressure Angle

10 DP
1" Face



Type B
Plain With Hub



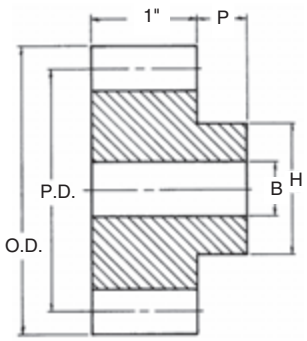
Type B_1
Web



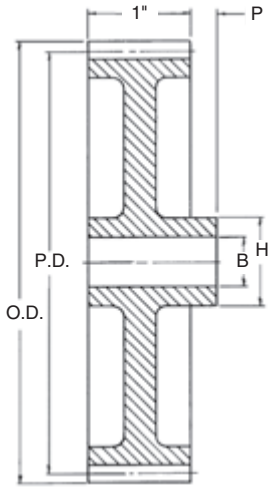
Type B_2
Web With
Lighten Holes



Type B_3
Spoke Style



Type B



Type B_1, B_2, B_3

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
• 60	C1060	14½	6.000	6.200	B_3	⅞	1 3/16	2⅛	⅞	4.3
64	C1064	14½	6.400	6.600	B_3	⅞	1 7/16	2½	⅞	5.6
65	C1065	14½	6.500	6.700	B_3	⅞	1 7/16	2½	⅞	5.6
70	C1070	14½	7.000	7.200	B_3	⅞	1 7/16	2½	⅞	5.9
72	C1072	14½	7.200	7.500	B_3	⅞	1 7/16	2½	⅞	6.3
75	C1075	14½	7.500	7.700	B_3	⅞	1 7/16	2½	⅞	6.7
80	C1080	14½	8.000	8.200	B_3	⅞	1 7/16	2½	⅞	7.0
84	C1084	14½	8.400	8.600	B_3	⅞	1 7/16	2½	⅞	6.9
85	C1085	14½	8.500	8.700	B_3	⅞	1 7/16	2½	⅞	7.3
90	C1090	14½	9.000	9.200	B_3	⅞	1 7/16	2½	⅞	7.6
95	C1095	14½	9.500	9.700	B_3	⅞	1 7/16	2½	⅞	8.1
96	C1096	14½	9.600	9.800	B_3	⅞	1 7/16	2½	⅞	8.1
100	C10100	14½	10.000	10.200	B_3	1	1 7/16	2½	⅞	10.3
105	C10105	14½	10.500	10.700	B_3	1	1 7/16	2½	1	10.4
110	C10110	14½	11.000	11.200	B_3	1	1 11/16	2¾	1	10.0
112	C10112	14½	11.200	11.400	B_3	1	1 11/16	2¾	1	10.2
120	C10120	14½	12.000	12.200	B_3	1	1 11/16	2¾	1	11.1
130	C10130	14½	13.000	13.200	B_3	1	1 11/16	2¾	1	13.4
140	C10140	14½	14.000	14.200	B_3	1	1 11/16	2¾	1	30.8
150	C10150	14½	15.000	15.200	B_3	1	1 11/16	2¾	1	33.0
160	C10160	14½	16.000	16.200	B_3	1	1 11/16	2¾	1	38.3
180	C10180	14½	18.000	18.200	B_3	1	1 13/16	3	1	43.6

* Recommended maximum bore with keyway and set screw.
• Consult Factory.

Bored-to-Size

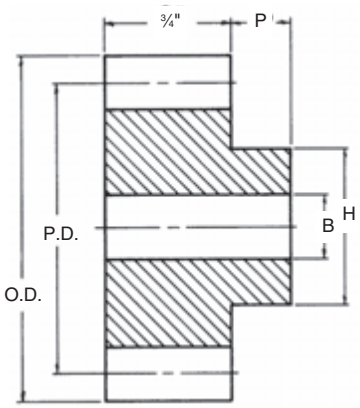
No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1011BS 5/8	14½	1.200	1.400	B	⅝	3/16 X 3/32	(1) 10-24 @ 90	15/16	⅝	0.30
12	S1012BS 5/8	14½	1.200	1.400	B	⅝	3/16 X 3/32	(1) 10-24 @ 90	15/16	⅝	0.30
14	S1014BS 5/8	14½	1.400	1.600	B	⅝	3/16 X 3/32	(1) 1/4-20 @ 90	1⅛	⅝	0.40
15	S1015BS 3/4	14½	1.500	1.700	B	¾	3/16 X 3/32	(1) 1/4-20 @ 90	1 7/32	⅝	0.50
16	S1016BS 3/4	14½	1.600	1.800	B	¾	3/16 X 3/32	(1) 1/4-20 @ 90	1 5/16	⅝	0.60
18	S1018BS 3/4	14½	1.800	2.000	B	¾	3/16 X 3/32	(1) 1/4-20 @ 90	1 17/32	⅝	0.80
18	S1018BS 7/8	14½	1.800	2.000	B	⅞	3/16 X 3/32	(1) 1/4-20 @ 90	1 17/32	⅝	0.80
20	S1020BS 3/4	14½	2.000	2.200	B	¾	3/16 X 3/32	(1) 1/4-20 @ 90	1 23/32	⅝	1.00
20	S1020BS 7/8	14½	2.000	2.200	B	⅞	3/16 X 3/32	(1) 1/4-20 @ 90	1 23/32	⅝	1.00
20	S1020BS 1	14½	2.000	2.200	B	1	¼ X ⅛	(1) 5/16-18 @ 90	1 23/32	⅝	1.00
24	S1024BS 3/4	14½	2.400	2.600	B	¾	3/16 X 3/32	(1) 1/4-20 @ 90	2⅛	⅝	1.60
24	S1024BS 7/8	14½	2.400	2.600	B	⅞	3/16 X 3/32	(1) 1/4-20 @ 90	2⅛	⅝	1.60
24	S1024BS 1	14½	2.400	2.600	B	1	¼ X ⅛	(1) 5/16-18 @ 90	2⅛	⅝	1.60

14½° P.A. Gears Will Not Operate With 20° P.A.

12 DP
¾" Face

Steel Stock Spur Gears
14½° Pressure Angle

Martin



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S1211	14½	1.000†	1.167	B	½	**	¾	½	0.14
12	S1212	14½	1.000	1.167	B	½	**	¾	½	0.16
13	S1213	14½	1.083	1.250	B	½	**	13/16	½	0.20
14	S1214	14½	1.167	1.333	B	½	**	29/32	½	0.24
15	S1215	14½	1.250	1.417	B	⅝	**	1	½	0.27
16	S1216	14½	1.333	1.500	B	⅝	⅝	1 1/16	½	0.34
17	S1217	14½	1.417	1.580	B	⅝	⅝	1⅛	½	0.36
18	S1218	14½	1.500	1.667	B	⅝	11/16	1¼	½	0.42
19	S1219	14½	1.583	1.750	B	⅝	¾	1 5/16	½	0.48
20	S1220	14½	1.667	1.833	B	⅝	13/16	1 13/32	½	0.56
21	S1221	14½	1.750	1.917	B	⅝	⅞	1½	½	0.64
22	S1222	14½	1.833	2.000	B	⅝	⅞	1 9/16	½	0.70
23	S1223	14½	1.917	2.083	B	⅝	15/16	1⅝	½	0.78
24	S1224	14½	2.000	2.166	B	⅝	1	1¾	½	0.88
25	S1225	14½	2.083	2.250	B	⅝	1 1/16	1 27/32	½	0.96
26	S1226	14½	2.167	2.333	B	⅝	1 3/16	1 15/16	⅝	1.14
28	S1228	14½	2.333	2.500	B	⅝	1½	2 1/16	⅝	1.34
30	S1230	14½	2.500	2.667	B	⅝	1 5/16	2¼	⅝	1.60
32	S1232	14½	2.667	2.833	B	⅝	1 5/16	2¼	⅝	1.72
34	S1234	14½	2.833	3.000	B	⅝	1 5/16	2¼	⅝	1.88
36	S1236	14½	3.000	3.167	B	⅝	1½	2½	⅝	2.20
38	S1238	14½	3.167	3.333	B	⅝	1½	2½	⅝	2.38
40	S1240	14½	3.333	3.500	B	⅝	1½	2½	⅝	2.54
42	S1242	14½	3.500	3.666	B	⅝	1½	2½	⅝	2.72
44	S1244	14½	3.667	3.833	B	⅝	1½	2½	⅝	2.94
48	S1248	14½	4.000	4.166	B	⅝	1½	2½	¾	3.50
54	S1254	14½	4.500	4.666	B	¾	1¾	2¾	¾	4.40
56	S1256	14½	4.667	4.833	B	¾	1¾	2¾	¾	4.60
60	S1260	14½	5.000	5.166	B	¾	1¾	2¾	¾	5.14
64	S1264	14½	5.333	5.500	B	¾	1¾	2¾	¾	5.74
66	S1266	14½	5.500	5.666	B	¾	1¾	2¾	¾	6.02
72	S1272	14½	6.000	6.166	B	¾	1¾	2¾	¾	7.02

* Recommended maximum bore with keyway and set screw.
** Check application with factory.
† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

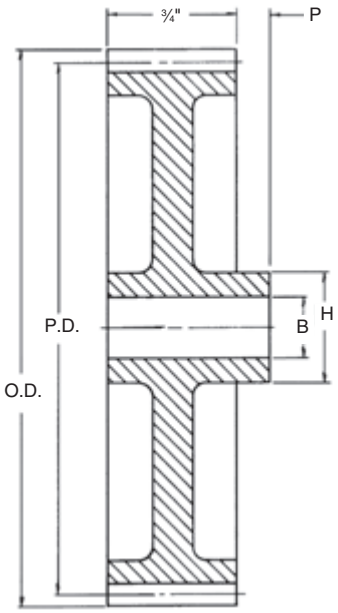
Martin

Cast Iron Stock Spur Gears

14½° Pressure Angle

12 DP

¾" Face



Type B_1, B_3



Type B_3
Spoke Style



Type B_1
Web

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
78	C1278	14½	6.500	6.666	B_3	¾	1 7/16	2½	¾	4.1
84	C1284	14½	7.000	7.166	B_3	¾	1 7/16	2½	¾	4.4
90	C1290	14½	7.500	7.666	B_3	¾	1 11/16	2¾	¾	5.2
96	C1296	14½	8.000	8.166	B_3	¾	1 11/16	2¾	¾	5.5
102	C12102	14½	8.500	8.666	B_3	¾	1 11/16	2¾	¾	5.9
108	C12108	14½	9.000	9.166	B_3	¾	1 11/16	2¾	¾	6.4
112	C12112	14½	9.333	9.500	B_3	¾	1 11/16	2¾	¾	6.4
114	C12114	14½	9.500	9.666	B_3	¾	1 11/16	2¾	¾	6.4
120	C12120	14½	10.000	10.166	B_3	⅞	1 11/16	2¾	¾	8.1
126	C12126	14½	10.500	10.666	B_3	⅞	1 13/16	3	¾	7.4
144	C12144	14½	12.000	12.166	B_3	⅞	1 13/16	3	1	10.1
168	C12168	14½	14.000	14.166	B_1	⅞	1 13/16	3	1	10.6

* Recommended maximum bore with keyway and set screw.

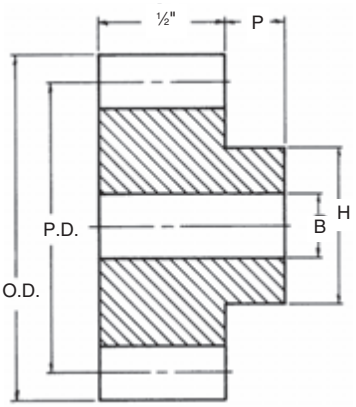
Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1211BS 1/2	14½	1.000	1.167	B	½	NONE	(1) 10-24	¾	½	0.14
12	S1212BS 1/2	14½	1.000	1.167	B	½	NONE	(1) 10-24	¾	½	0.16
13	S1213BS 1/2	14½	1.083	1.250	B	½	NONE	(1) 10-24	13/16	½	0.20
14	S1214BS 1/2	14½	1.167	1.333	B	½	NONE	(1) 10-24	29/32	⅝	0.24
15	S1215BS 5/8	14½	1.250	1.417	B	⅝	3/16 × 3/32	(1) 10-24 @ 90	1	½	0.27
16	S1216BS 5/8	14½	1.333	1.500	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 1/16	½	0.34
18	S1218BS 5/8	14½	1.500	1.667	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1¼	½	0.42
20	S1220BS 5/8	14½	1.667	1.833	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/32	½	0.56
20	S1220BS 3/4	14½	1.667	1.833	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/32	½	0.56
21	S1221BS 5/8	14½	1.750	1.917	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/32	½	0.56
21	S1221BS 3/4	14½	1.750	1.917	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/32	½	0.56
21	S1221BS 7/8	14½	1.750	1.917	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/32	½	0.56
22	S1222BS 5/8	14½	1.833	2.000	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 9/16	½	0.70
22	S1222BS 3/4	14½	1.833	2.000	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 9/16	½	0.70
22	S1222BS 7/8	14½	1.833	2.000	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 9/16	½	0.70
22	S1222BS 1	14½	1.833	2.000	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1 9/16	½	0.70
24	S1224BS 5/8	14½	2.000	2.167	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 3/4	14½	2.000	2.167	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 7/8	14½	2.000	2.167	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 1	14½	2.000	2.167	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1¾	½	0.88

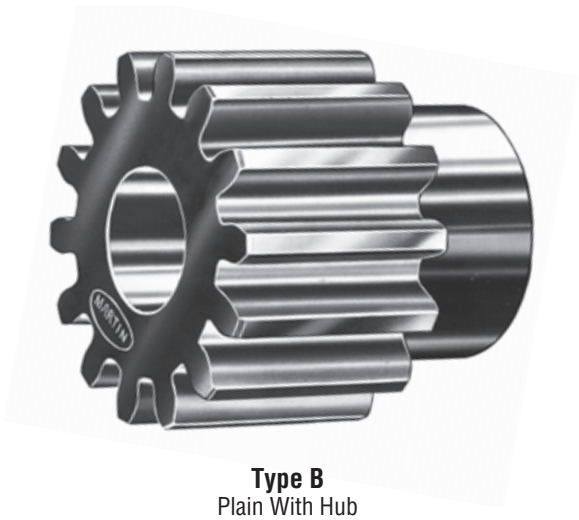
14½° P.A. Gears Will Not Operate With 20° P.A.

16 DP
½" Face

Steel Stock Spur Gears
14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S1611	14½	0.750†	0.875	B	⅜	**	9/16	7/16	0.06
12	S1612	14½	0.750	0.875	B	⅜	**	9/16	7/16	0.06
13	S1613	14½	0.812	0.937	B	⅜	**	⅝	7/16	0.08
14	S1614	14½	0.875	1.000	B	⅜	**	11/16	7/16	0.08
15	S1615	14½	0.937	1.062	B	½	**	¾	7/16	0.10
16	S1616	14½	1.000	1.125	B	½	**	13/16	7/16	0.12
17	S1617	14½	1.062	1.187	B	½	**	⅞	7/16	0.14
18	S1618	14½	1.125	1.250	B	½	**	15/16	7/16	0.16
19	S1619	14½	1.187	1.312	B	½	½	1	7/16	0.20
20	S1620	14½	1.250	1.375	B	½	9/16	1 1/16	7/16	0.22
21	S1621	14½	1.312	1.438	B	½	⅝	1⅛	7/16	0.24
22	S1622	14½	1.375	1.500	B	½	⅝	1 3/16	7/16	0.28
23	S1623	14½	1.437	1.562	B	½	11/16	1¼	7/16	0.32
24	S1624	14½	1.500	1.625	B	½	¾	1 5/16	7/16	0.34
26	S1626	14½	1.625	1.750	B	½	⅞	1 7/16	7/16	0.42
28	S1628	14½	1.750	1.875	B	½	⅞	1½	½	0.52
30	S1630	14½	1.875	2.000	B	½	15/16	1⅝	½	0.60
32	S1632	14½	2.000	2.125	B	½	1	1¾	½	0.70
34	S1634	14½	2.125	2.250	B	½	1⅛	1⅞	½	0.80
36	S1636	14½	2.250	2.375	B	½	1¼	2	½	0.92
38	S1638	14½	2.375	2.500	B	½	1¼	2	½	0.98
40	S1640	14½	2.500	2.626	B	½	1¼	2	½	1.10
44	S1644	14½	2.750	2.875	B	½	1¼	2	½	1.20
48	S1648	14½	3.000	3.125	B	½	1¼	2	½	1.40
52	S1652	14½	3.250	3.375	B	½	1¼	2	½	1.50
54	S1654	14½	3.375	3.500	B	½	1¼	2	½	1.60
56	S1656	14½	3.500	3.625	B	½	1¼	2	½	1.70
60	S1660	14½	3.750	3.875	B	½	1¼	2	½	1.30
64	S1664	14½	4.000	4.125	B	⅝	1¼	2	⅝	2.20
68	S1668	14½	4.250	4.375	B	⅝	1 5/16	2¼	⅝	2.50
72	S1672	14½	4.500	4.625	B	⅝	1 5/16	2¼	⅝	2.80
80	S1680	14½	5.000	5.125	B	⅝	1 5/16	2¼	⅝	3.40
84	S1684	14½	5.250	5.375	B	⅝	1 5/16	2¼	⅝	3.60
88	S1688	14½	5.500	5.625	B	⅝	1 5/16	2¼	⅝	3.90
96	S1696	14½	6.000	6.125	B	⅝	1 5/16	2¼	⅝	4.60
104	S16104	14½	6.500	6.625	B	⅝	1 5/16	2¼	⅝	5.20

* Recommended maximum bore with keyway and set screw.
** Check application with factory.
† Enlarged pitch diameter with special tooth form.

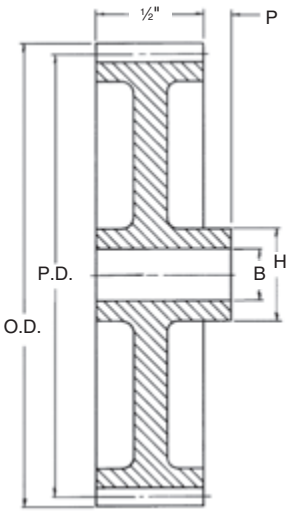
14½° P.A. Gears Will Not Operate With 20° P.A.

Cast Iron Stock Spur Gears

14½° Pressure Angle

16 DP

½" Face



Type B_1, B_3



Type B_3
Spoke Style



Type B_1
Web

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
112	C16112	14½	7.000	7.125	B_3	⅝	1 7/16	2½	⅝	3.4
120	C16120	14½	7.500	7.625	B_3	⅝	1 7/16	2½	⅝	3.5
128	C16128	14½	8.000	8.125	B_3	⅝	1 7/16	2½	⅝	3.7
144	C16144	14½	9.000	9.125	B_3	⅝	1 11/16	2¾	¾	5.0
160	C16160	14½	10.000	10.125	B_3	⅝	1 11/16	2¾	¾	5.2
192	C16192	14½	12.000	12.125	B_1	⅝	1 11/16	2¾	¾	8.1

* Recommended maximum bore with keyway and set screw.

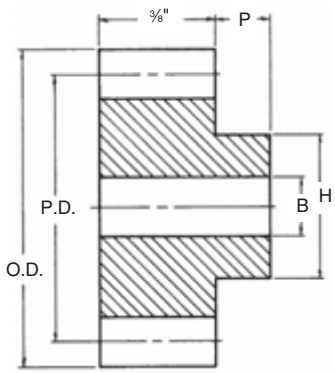
Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1611BS 3/8	14½	0.750	0.875	B	⅜	None	(1) 8-32	9/16	7/16	0.06
12	S1612BS 3/8	14½	0.752	0.875	B	⅜	None	(1) 8-32	9/16	7/16	0.06
13	S1613BS 3/8	14½	0.812	0.937	B	⅜	None	(1) 8-32	⅝	7/16	0.08
14	S1614BS 3/8	14½	0.875	1.000	B	⅜	None	(1) 10-24	11/16	7/16	0.08
15	S1615BS 1/2	14½	0.937	1.062	B	½	None	(1) 10-24	¾	7/16	0.10
16	S1616BS 1/2	14½	1.000	1.125	B	½	None	(1) 10-24	13/16	7/16	0.12
18	S1618BS 1/2	14½	1.125	1.250	B	½	None	(1) 1/4-20	15/16	7/16	0.16
20	S1620BS 1/2	14½	1.250	1.375	B	½	None	(1) 1/4-20	1 1/16	7/16	0.22
20	S1620BS 5/8	14½	1.250	1.375	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 1/16	7/16	0.22
22	S1622BS 1/2	14½	1.375	1.500	B	½	None	(1) 1/4-20	1 3/16	7/16	0.28
22	S1622BS 5/8	14½	1.375	1.500	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 3/16	7/16	0.28
24	S1624BS 1/2	14½	1.500	1.625	B	½	None	(1) 1/4-20	1 5/16	7/16	0.34
24	S1624BS 5/8	14½	1.500	1.625	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 5/16	7/16	0.34
24	S1624BS 3/4	14½	1.500	1.625	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 5/16	7/16	0.34
26	S1626BS 1/2	14½	1.625	1.750	B	½	None	(1) 1/4-20	1 7/16	7/16	0.42
26	S1626BS 5/8	14½	1.625	1.750	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 7/16	7/16	0.42
26	S1626BS 3/4	14½	1.625	1.750	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 7/16	7/16	0.42
28	S1628BS 1/2	14½	1.750	1.875	B	½	None	(1) 1/4-20	1½	½	0.52
28	S1628BS 5/8	14½	1.750	1.875	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1½	½	0.52
28	S1628BS 3/4	14½	1.750	1.875	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1½	½	0.52
28	S1628BS 7/8	14½	1.750	1.875	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1½	½	0.52
30	S1630BS 1/2	14½	1.875	2.000	B	½	None	(1) 1/4-20	1⅝	½	0.60
30	S1630BS 5/8	14½	1.875	2.000	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1⅝	½	0.60
30	S1630BS 3/4	14½	1.875	2.000	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1⅝	½	0.60
30	S1630BS 7/8	14½	1.875	2.000	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1⅝	½	0.60
30	S1630BS 1	14½	1.875	2.000	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1⅝	½	0.60
32	S1632BS 1/2	14½	2.000	2.125	B	½	None	(1) 1/4-20	1¾	½	0.70
32	S1632BS 5/8	14½	2.000	2.125	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1¾	½	0.70
32	S1632BS 3/4	14½	2.000	2.125	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1¾	½	0.70
32	S1632BS 7/8	14½	2.000	2.125	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1¾	½	0.70
32	S1632BS 1	14½	2.000	2.125	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1¾	½	0.70

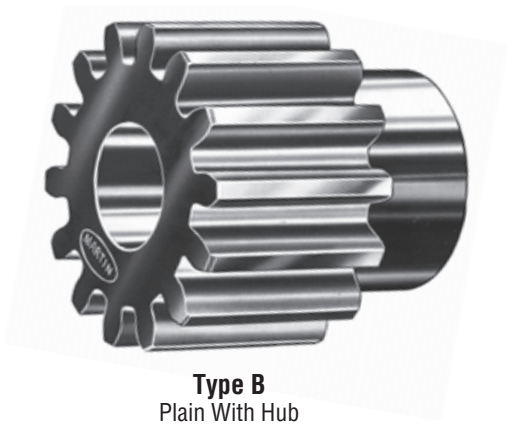
14½° P.A. Gears Will Not Operate With 20° P.A.

20 DP
3/8" Face

Steel Stock Spur Gears
14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S2011	14½	0.600†	0.700	B	5/16	**	15/32	3/8	0.02
12	S2012	14½	0.600	0.700	B	5/16	**	15/32	3/8	0.02
13	S2013	14½	0.650	0.750	B	5/16	**	½	3/8	0.04
14	S2014	14½	0.700	0.800	B	5/16	**	35/64	3/8	0.04
15	S2015	14½	0.750	0.850	B	3/8	**	39/64	3/8	0.04
16	S2016	14½	0.800	0.900	B	3/8	**	21/32	3/8	0.04
17	S2017	14½	0.850	0.950	B	3/8	**	45/64	3/8	0.08
18	S2018	14½	0.900	1.000	B	3/8	**	3/4	3/8	0.08
19	S2019	14½	0.950	1.050	B	3/8	**	51/64	3/8	0.10
20	S2020	14½	1.000	1.100	B	3/8	**	55/64	3/8	0.12
21	S2021	14½	1.050	1.150	B	3/8	**	7/8	3/8	0.12
22	S2022	14½	1.100	1.200	B	3/8	**	31/32	3/8	0.14
23	S2023	14½	1.150	1.250	B	3/8	**	31/32	3/8	0.16
24	S2024	14½	1.200	1.300	B	3/8	9/16	1 1/16	3/8	0.19
25	S2025	14½	1.250	1.350	B	3/8	5/8	1 7/64	3/8	0.20
28	S2028	14½	1.400	1.500	B	3/8	11/16	1 17/64	3/8	0.26
30	S2030	14½	1.500	1.600	B	3/8	13/16	1 23/64	3/8	0.30
32	S2032	14½	1.600	1.700	B	3/8	7/8	1 7/16	½	0.40
35	S2035	14½	1.750	1.850	B	3/8	7/8	1 9/16	½	0.50
36	S2036	14½	1.800	1.900	B	3/8	15/16	1 5/8	½	0.52
40	S2040	14½	2.000	2.100	B	3/8	1 1/16	1 13/16	½	0.64
45	S2045	14½	2.250	2.350	B	3/8	1 1/4	2	½	0.82
48	S2048	14½	2.400	2.500	B	3/8	1 1/4	2	½	0.88
50	S2050	14½	2.500	2.600	B	3/8	1 1/4	2	½	0.90
55	S2055	14½	2.750	2.850	B	3/8	1 1/4	2	½	1.04
60	S2060	14½	3.000	3.100	B	3/8	1 1/4	2	½	1.16
64	S2064	14½	3.200	3.300	B	3/8	1 1/4	2	½	1.26
70	S2070	14½	3.500	3.600	B	3/8	1 1/4	2	½	1.40
72	S2072	14½	3.600	3.700	B	3/8	1 5/16	2 1/4	½	1.60
75	S2075	14½	3.750	3.850	B	3/8	1 5/16	2 1/4	½	1.70
80	S2080	14½	4.000	4.100	B	½	1 5/16	2 1/4	½	1.82
84	S2084	14½	4.200	4.300	B	½	1 5/16	2 1/4	½	1.96
90	S2090	14½	4.500	4.600	B	½	1 5/16	2 1/4	½	2.20
96	S2096	14½	4.800	4.900	B	½	1 5/16	2 1/4	½	2.42
100	S20100	14½	5.000	5.100	B	½	1 5/16	2 1/4	½	2.60
112	S20112	14½	5.600	5.700	B	½	1	1 3/4	½	2.86
120	S20120	14½	6.000	6.100	B_1	½	1	1 3/4	½	3.24
132	S20132	14½	6.600	6.700	B	½	1	1 3/4	½	3.80

* Recommended maximum bore with keyway and set screw.
** Check application with factory.
† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

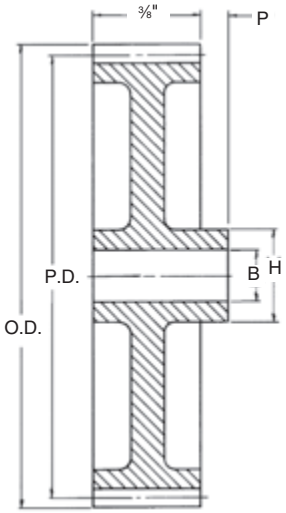
Martin

Cast Iron Stock Spur Gears

14½° Pressure Angle

20 DP

3/8" Face



Type B_1, B_3



Type B_3
Spoke Style



Type B_1
Web

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
• 48	C2048	14½	2.400	2.500	B_1	3/8	9/16	1 1/8	1/2	0.50
• 64	C2064	14½	3.200	3.300	B_1	3/8	9/16	1 1/8	1/2	0.68
140	C20140	14½	7.000	7.100	B_1	1/2	1	1 3/4	1/2	2.00
160	C20160	14½	8.000	8.100	B_1	1/2	1	1 3/4	5/8	2.34
180	C20180	14½	9.000	9.100	B_1	1/2	1	1 3/4	5/8	2.66
200	C20200	14½	10.000	10.100	B_1	1/2	1	1 3/4	5/8	2.84

* Recommended maximum bore with keyway and set screw.
• Consult Factory.

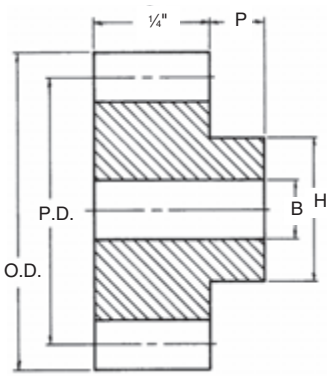
Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S2011BS 5/16	14½	0.600	0.700	B	5/16	None	#35 P.H.	15/32	3/8	0.02
12	S2012BS 5/16	14½	0.600	0.700	B	5/16	None	#35 P.H.	15/32	3/8	0.02
13	S2013BS 5/16	14½	0.650	0.750	B	5/16	None	#35 P.H.	1/2	3/8	0.04
14	S2014BS 5/16	14½	0.700	0.800	B	5/16	None	#35 P.H.	35/64	3/8	0.04
15	S2015BS 3/8	14½	0.750	0.850	B	3/8	None	(1) 8-32	39/64	3/8	0.04
16	S2016BS 3/8	14½	1.800	0.900	B	3/8	None	(1) 8-32	21/32	3/8	0.04
18	S2018BS 3/8	14½	1.900	1.000	B	3/8	None	(1) 10-24	3/4	3/8	0.08
20	S2020BS 3/8	14½	1.000	1.100	B	3/8	None	(1) 10-24	55/64	3/8	0.12
20	S2020BS 1/2	14½	1.000	1.100	B	1/2	None	(1) 10-24	55/64	3/8	0.12
22	S2022BS 3/8	14½	1.100	1.200	B	3/8	None	(1) 1/4-20	31/32	3/8	0.14
22	S2022BS 1/2	14½	1.100	1.200	B	1/2	None	(1) 1/4-20	31/32	3/8	0.14
24	S2024BS 3/8	14½	1.200	1.300	B	3/8	None	(1) 1/4-20	1 1/16	3/8	0.19
24	S2024BS 1/2	14½	1.200	1.300	B	1/2	None	(1) 1/4-20	1 1/16	3/8	0.19
25	S2025BS 3/8	14½	1.250	1.350	B	3/8	None	(1) 1/4-20	1 7/64	3/8	0.20
25	S2025BS 1/2	14½	1.250	1.350	B	1/2	None	(1) 1/4-20	1 7/64	3/8	0.20
28	S2028BS 3/8	14½	1.400	1.500	B	3/8	None	(1) 1/4-20	1 17/64	3/8	0.26
28	S2028BS 1/2	14½	1.400	1.500	B	1/2	None	(1) 1/4-20	1 17/64	3/8	0.26
30	S2030BS 3/8	14½	1.500	1.600	B	3/8	None	(1) 1/4-20	1 23/64	3/8	0.30
30	S2030BS 1/2	14½	1.500	1.600	B	1/2	None	(1) 1/4-20	1 23/64	3/8	0.30
32	S2032BS 3/8	14½	1.600	1.700	B	3/8	None	(1) 1/4-20	1 7/16	1/2	0.40
32	S2032BS 1/2	14½	1.600	1.700	B	1/2	None	(1) 1/4-20	1 7/16	1/2	0.40
35	S2035BS 3/8	14½	1.750	1.850	B	3/8	None	(1) 1/4-20	1 9/16	1/2	0.50
35	S2035BS 1/2	14½	1.750	1.850	B	1/2	None	(1) 1/4-20	1 9/16	1/2	0.50
36	S2036BS 3/8	14½	1.800	1.900	B	3/8	None	(1) 1/4-20	1 5/8	1/2	0.52
36	S2036BS 1/2	14½	1.800	1.900	B	1/2	None	(1) 1/4-20	1 5/8	1/2	0.52
40	S2040BS 3/8	14½	2.000	2.100	B	3/8	None	(1) 1/4-20	1 13/16	1/2	0.64
40	S2040BS 1/2	14½	2.000	2.100	B	1/2	None	(1) 1/4-20	1 13/16	1/2	0.64
40	S2040BS 5/8	14½	2.000	2.100	B	5/8	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.64
40	S2040BS 3/4	14½	2.000	2.100	B	3/4	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.64

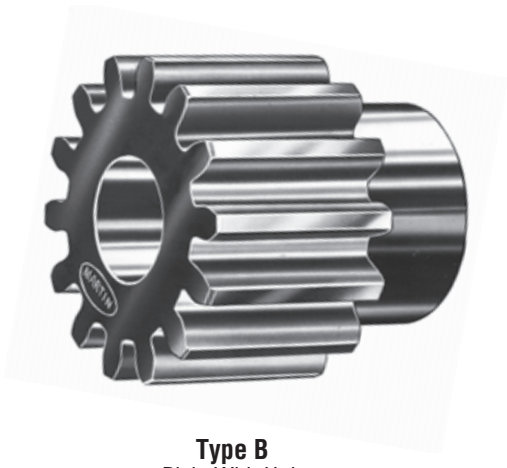
14½° P.A. Gears Will Not Operate With 20° P.A.

24 DP
¼" Face

Steel Stock Spur Gears
14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S2411	14½	0.500†	0.583	B	¼	**	⅜	5/16	0.02
12	S2412	14½	0.500	0.583	B	¼	**	⅜	5/16	0.02
14	S2414	14½	0.583	0.666	B	¼	**	15/32	5/16	0.04
15	S2415	14½	0.625	0.708	B	¼	**	½	5/16	0.04
16	S2416	14½	0.666	0.750	B	5/16	**	35/64	5/16	0.04
17	S2417	14½	0.709	0.791	B	5/16	**	9/16	5/16	0.04
18	S2418	14½	0.750	0.833	B	5/16	**	⅝	5/16	0.04
19	S2419	14½	0.791	0.875	B	5/16	**	⅝	5/16	0.06
20	S2420	14½	0.833	0.917	B	5/16	**	23/32	5/16	0.06
21	S2421	14½	0.875	0.959	B	⅜	**	¾	5/16	0.06
22	S2422	14½	0.917	1.000	B	⅜	**	¾	5/16	0.06
24	S2424	14½	1.000	1.083	B	⅜	**	⅞	⅜	0.10
26	S2426	14½	1.083	1.166	B	⅜	**	⅞	⅜	0.10
27	S2427	14½	1.125	1.208	B	⅜	**	⅞	⅜	0.12
30	S2430	14½	1.250	1.333	B	⅜	½	1	⅜	0.16
32	S2432	14½	1.333	1.416	B	⅜	½	1	⅜	0.20
33	S2433	14½	1.375	1.458	B	⅜	⅝	1⅛	⅜	0.20
36	S2436	14½	1.500	1.583	B	⅜	⅝	1⅛	⅜	0.20
40	S2440	14½	1.666	1.750	B	⅜	⅝	1⅛	⅜	0.24
42	S2442	14½	1.750	1.833	B	⅜	11/16	1¼	⅜	0.28
44	S2444	14½	1.833	1.917	B	⅜	11/16	1¼	⅜	0.30
45	S2445	14½	1.875	1.959	B	⅜	11/16	1¼	⅜	0.30
48	S2448	14½	2.000	2.083	B	⅜	11/16	1¼	⅜	0.32
54	S2454	14½	2.250	2.333	B	⅜	11/16	1¼	⅜	0.38
56	S2456	14½	2.333	2.416	B	⅜	11/16	1¼	⅜	0.40
60	S2460	14½	2.500	2.583	B	⅜	11/16	1¼	⅜	0.46
66	S2466	14½	2.750	2.833	B	⅜	11/16	1¼	⅜	0.52
72	S2472	14½	3.000	3.083	B	½	13/16	1⅜	½	0.64
84	S2484	14½	3.500	3.583	B	½	⅞	1½	½	0.88
96	S2496	14½	4.000	4.083	B	½	⅞	1½	½	1.08
120	S24120	14½	5.000	5.083	B	½	⅞	1½	½	2.60
144	S24144	14½	6.000	6.083	B	½	15/16	1⅝	17/32	2.28

* Recommended maximum bore with keyway and set screw.
** Check application with factory.
† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

14½° Spur Gear Horsepower Ratings

(S) = Steel (CI) = Cast Iron

3 D.P. — 3" Face

No. Teeth	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	6.14		11.37		19.8		26.3		39.14		46.74		51.78			
15	8.76		15.96		27.06		35.24		50.49		59.01					
18	11.37		20.38		33.75		43.2		60		68.93					
21	13.92		24.59		39.84		50.24		67.96							
24	16.32	9.67	28.53	16.84	45.16	26.76	56.19	33.3	74.34	44.05						
48	32.28	19.5	51.3	30.98	72.69	43.9	84.44	51.39								
72	45.01	27.06	66.98	40.29	88.62	53.32										
96	54.74	32.95	77.57	46.7	98.01	59.01										
120	62.89	37.74	85.79	51.48	104.88	62.93										

4 D.P. — 2" Face

No. Teeth	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	2.35		4.42		7.92		10.77		16.8		20.65		23.33		27	
16	3.81		6.85		11.92		15.82		23.6		28.18		31.23			
20	5.06		9.22		15.65		20.38		29.19		31.11					
24	6.27	3.77	11.25	6.75	18.64	11.19	23.86	14.32	33.14	19.88	38.17	22.84				
36	10.03	5.96	17.23	10.24	28.01	15.98	33.05	16.94	42.89	25.49						
48	12.94	7.82	21.44	12.95	31.91	19.28	38.12	23.02	47.31	28.58						
72		11.1		17.32		24.05		27.65								
96		13.78		20.5		27.12										
144		18		25		31										

5 D.P. — 1¾" Face

No. Teeth	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	1.32		2.54		4.63		6.4		10.33		12.98		14.9		17.48	
18	2.5		4.66		8.22		11		16.67		20.13		22.45			
24	3.64	2.16	6.55	3.95	11.18	6.73	14.62	8.79	21.09	12.69	24.74	14.88				
30	4.68	2.79	8.45	5.02	14	8.31	17.92	10.65	24.88	14.79	28.58	17				
45	7.59	4.32	12.2	7.43	19.03	11.59	23.41	14.27	30.38	18.52						
60		5.62		9.31		13.86		16.56		20.55						
80	11.96	7.25	19	11.54	26.92	16.35	31.28	18.99								
100		8.51		13.07		17.84										
120	16.23	9.74	24.16	14.49	31.95	19.18										
160		11.77		16.68		21.09										

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

14½° Spur Gear Horsepower Ratings

(S) = Steel (CI) = Cast Iron

6 D.P. — ½" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	1.54		2.83		3.97		6.57		8.4		9.78		11.69	
18	2.83		5.09		6.91		10.8		13.28		14.98		17.22	
24	4.02		7.02		9.32		13.86		16.56		18.35			
30	5.16		8.75		11.41		16.35		19.1					
36	6.26	3.77	10.37	6.24	13.28	7.98	18.44	11.09						
48	7.56	4.88	12.91	7.75	15.98	9.64	20.66	12.75						
84	12.86	7.6	17.62	11.02	20.51	12.96								
120	15.99	9.5	20.86	12.95										
180		12		15										

8 D.P. — 1¼" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.72		1.37		1.95		3.32		4.36		5.21		6.38	
18	1.37		2.52		3.49		5.69		7.2		8.30		9.8	
24	1.98	1.18	3.59	2.13	4.81	2.86	7.55	4.48	9.25	5.49	10.48	6.22	12.08	7.17
36	3.02		5.13		6.73		9.85							
48	4.08	2.5	6.76	4.14	8.58	5.26	11.91	7.29						
60		2.98		4.79		5.98								
72		3.47		5.45		6.67								
96		4.4		6.49		7.75								
112		4.83		7.01										
120		5.05		7.22										
160		6.02		8.21										

10 D.P. — 1" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.38		0.75		1.08		1.88		2.50		3.00		3.75	
18	0.72		1.33		1.87		3.15		4.07		4.76		5.75	
24	1.08		1.98		2.71		4.33		5.41		7.21		7.21	
28	1.24	0.80	2.24	1.44	3.06	1.94	4.83	3.03	5.98	3.71	6.79	4.85	7.85	
48	2.26	1.31	3.77	2.23	4.94	2.91	7.13	4.2	8.23	4.92				
60	2.68	1.61	4.45	2.66	5.65	3.41	7.84	4.73	9.04	5.43				
72		1.88		3.02		3.80		5.16						
96		2.37		3.65		4.46		5.73						
120		2.80		4.17		4.98		6.18						
140		3.12		4.52		5.33								
180		3.63		5.04		5.81								
200		3.88		5.29		6.02								

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

14½° Spur Gear Horsepower Ratings

12 D.P. — ¾" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.21		0.39		0.55		0.99		1.33		1.64		2.09	
18	0.38		0.71		1.01		1.73		2.28		2.70		3.32	
24	0.56		1.05		1.43		2.37		3.01		3.50		4.17	
36	0.88	0.53	1.57	0.95	2.13	1.28	3.33	2.01	4.09	2.46	4.62	2.46	5.31	3.21
48	1.16	0.70	2.02	1.22	2.70	1.62	3.99	2.41	4.76	2.88	4.76	3.19		
60	1.46	0.87	2.44	1.47	3.19	1.91	4.61	2.74	5.32	3.21				
72	1.71	1.04	2.84	1.72	3.60	2.18	5.00	3.03	5.76	3.49				
96		1.30		2.06		2.56		3.39						
120		1.54		2.37		2.90		3.68						
200		2.19		3.08		3.56								

16 D.P. — ½" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.08		0.14		0.21		0.40		0.53		0.66		0.87	
18	0.14		0.27		0.39		0.70		0.94		1.14		1.44	
24	0.21		0.39		0.56		0.96		1.26		1.50		1.84	
36	0.32	0.14	0.60	0.27	0.82	0.37	1.35	0.60	1.71	0.68	1.97	0.87	2.33	1.03
48	0.45		0.82		1.10		1.72		2.11		2.39		2.75	
60		0.34		0.60		0.80		1.20		1.44		1.60		
72		0.40		0.69		0.91		1.33		1.57				
80	0.76	0.45	1.26	0.75	1.65	0.99	2.38	1.43	2.75	1.64				
120		0.63		1.00		1.25		1.68						
160		0.78		1.21		1.48		1.78						
200		0.93		1.34		1.60		1.78						

20 D.P. — ⅜" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.05		0.07		0.10		0.19		0.27		0.33		0.46	
18	0.07		0.13		0.19		0.35		0.48		0.59		0.76	
24	0.11		0.20		0.29		0.51		0.68		0.81		1.02	
48	0.22	0.14	0.43	0.26	0.58	0.35	0.93	0.56	1.16	0.70	1.34	0.81	1.55	0.94
60	0.28		0.50		0.67		1.06		1.29		1.47		1.69	
80		0.22		0.39		0.52		0.76		0.91		1.01		
96	0.46	0.26	0.76		0.99		1.44		1.66		1.70			
120		0.32		0.53		0.66		0.92		1.06				
160		0.40		0.64		0.79		1.05		1.16				
200		0.47		0.73		0.89		1.08		1.14				

24 D.P. — ¼" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.017		0.033		0.049		0.092		0.131		0.165	
18	0.030		0.060		0.090		0.170		0.230		0.290	
24	0.047		0.091		0.132		0.236		0.321		0.391	
36	0.080		0.150		0.210		0.360		0.470		0.550	
48	0.105		0.197		0.275		0.455		0.583		0.679	
60	0.130		0.240		0.330		0.530		0.670		0.760	
96	0.210		0.360		0.480		0.710		0.850		0.940	
144	0.291		0.482		0.617		0.857		0.984			

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

4 DP
3½" Face

Steel Stock Spur Gears
20° Pressure Angle



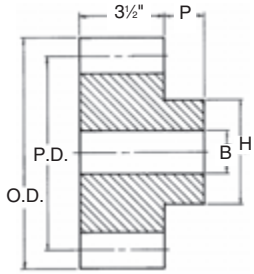
Type B
Plain With Hub
All Steel



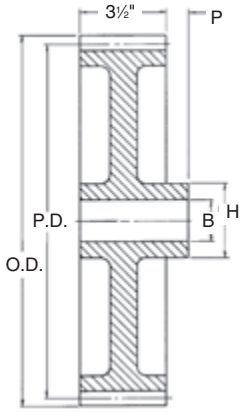
Type B_1
Web
All Steel



Type B_2
Web With
Lighten Holes
All Steel



Type B



Type B_1, B_2

Steel

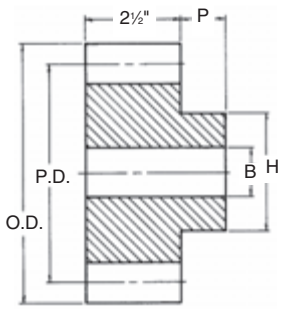
No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS412	20	3.000	3.500	B	1⅛	1⅝	2 17/64	⅞	6.8
14	TS414	20	3.500	4.000	B	1⅛	1¾	2 49/64	⅞	9.8
15	TS415	20	3.750	4.250	B	1⅛	1⅞	3 1/64	⅞	11.5
16	TS416	20	4.000	4.500	B	1⅛	2⅛	3 17/64	⅞	13.3
18	TS418	20	4.500	5.000	B	1⅛	2⅜	3 49/64	⅞	17.3
20	TS420	20	5.000	5.500	B	1⅛	2¾	4 17/64	⅞	21.8
22	TS422	20	5.500	6.000	B	1⅛	3	4 49/64	⅞	26.7
24	TS424	20	6.000	6.500	B	1⅛	3⅛	5	1¼	33.7
28	TS428	20	7.000	7.500	B	1⅛	3⅛	5	1¼	43.8
30	TS430	20	7.500	8.000	B	1⅛	3⅛	5	1¼	49.4
32	TS432	20	8.000	8.500	B	1¼	3⅛	5	1½	56.8
36	TS436	20	9.000	9.500	B	1¼	3⅛	5	1½	70.0
40	TS440	20	10.000	10.500	B	1¼	3⅛	5⅛	1½	85.2
44	TS444	20	11.000	11.500	B	1¼	3⅛	5⅛	1½	101.6
48	TS448	20	12.000	12.500	B	1¼	3⅛	5⅛	1½	119.5
56	TS456	20	14.000	14.500	B_1	1¼	3¼	5½	1½	96.9
60	TS460	20	15.000	15.500	B_2	1¼	3¼	5½	1½	88.1
64	TS464	20	16.000	16.500	B_2	1¼	3¼	5½	1½	86.9
72	TS472	20	18.000	18.500	B_2	1¼	3¼	5½	1½	86.5
80	TS480	20	20.000	20.500	B_2	1¼	3¼	5½	1½	90.9

* Recommended maximum bore with keyway and set screw.

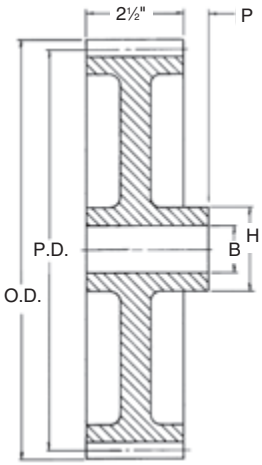
20° P.A. Gears Will Not Operate With 14½° P.A.

Steel Stock Spur Gears
20° Pressure Angle

5 DP
2½" Face



Type B



Type B_2



Type B
Plain With Hub
All Steel



Type B_2
Web With Lighten Holes
All Steel

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS512	20	2.400	2.800	B	1⅛	1⅛	1 25/32	⅞	2.9
14	TS514	20	2.800	3.200	B	1⅛	1 5/16	2 3/16	⅞	4.3
15	TS515	20	3.000	3.400	B	1⅛	1 7/16	2⅜	⅞	5.2
16	TS516	20	3.200	3.600	B	1⅛	1⅝	2 19/32	⅞	6.1
18	TS518	20	3.600	4.000	B	1⅛	1⅞	3	⅞	8.0
20	TS520	20	4.000	4.400	B	1⅛	2¼	3⅜	⅞	10.2
24	TS524	20	4.800	5.200	B	1⅛	2⅜	3¾	1¼	15.7
25	TS525	20	5.000	5.400	B	1⅛	2⅜	3¾	1¼	20.3
28	TS528	20	5.600	6.000	B	1⅛	2⅜	3¾	1¼	22.9
30	TS530	20	6.000	6.400	B	1⅛	2⅜	3¾	1¼	23.9
35	TS535	20	7.000	7.400	B	1¼	2⅜	3¾	1¼	29.9
40	TS540	20	8.000	8.400	B	1¼	2⅜	3¾	1¼	38.2
45	TS545	20	9.000	9.400	B	1¼	2⅜	3¾	1¼	47.7
50	TS550	20	10.000	10.400	B	1¼	2 13/16	4⅝	1¼	60.3
60	TS560	20	12.000	12.400	B	1¼	2 13/16	4⅝	1¼	84.7
70	TS570	20	14.000	14.400	B_2	1 3/16	3⅛	5¼	1¼	51.6
80	TS580	20	16.000	16.400	B_2	1 3/16	3⅛	5¼	1¼	55.8
90	TS590	20	18.000	18.400	B_2	1 3/16	3⅛	5¼	1¼	59.7
100	TS5100	20	20.000	20.400	B_2	1 5/16	3¼	5¾	1½	69.2
110	TS5110	20	22.000	22.400	B_2	1 5/16	3¼	5¾	1½	72.3
120	TS5120	20	24.000	24.400	B_2	1 5/16	3½	6¼	1½	80.2

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

6 DP
2" Face

Steel Stock Spur Gears
20° Pressure Angle

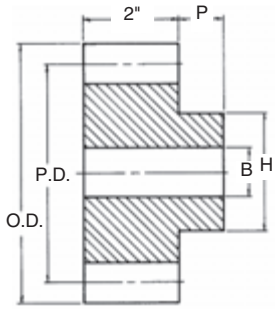
Martin



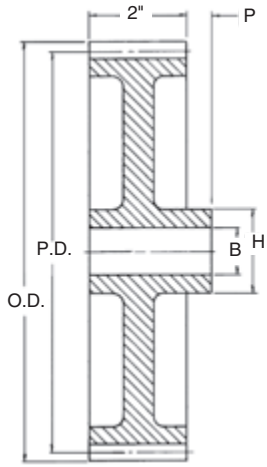
Type B
Plain With Hub
All Steel



Type B_2
Web With Lighten Holes
All Steel



Type B



Type B_2

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	TS611†	20	2.000	2.333	B	1	1	1½	⅞	1.6
12	TS612	20	2.000	2.333	B	1	1	1½	⅞	1.6
14	TS614	20	2.333	2.666	B	1	1	1 13/16	⅞	2.4
15	TS615	20	2.500	2.833	B	1	1¼	2	⅞	2.9
16	TS616	20	2.666	3.000	B	1	1 5/16	2⅛	⅞	3.4
18	TS618	20	3.000	3.333	B	1	1½	2½	⅞	4.6
21	TS621	20	3.500	3.833	B	1	1⅞	3	⅞	6.6
24	TS624	20	4.000	4.333	B	1⅛	1⅞	3	⅞	8.1
27	TS627	20	4.500	4.833	B	1⅛	2⅛	3½	⅞	10.6
30	TS630	20	5.000	5.333	B	1⅛	2½	4	⅞	13.4
33	TS633	20	5.500	5.833	B	1⅛	2½	4	1½	17.8
36	TS636	20	6.000	6.333	B	1⅛	2½	4	1½	20.4
42	TS642	20	7.000	7.333	B	1⅛	2½	4	1½	26.2
48	TS648	20	8.000	8.333	B	1⅛	2½	4	1½	32.8
54	TS654	20	9.000	9.333	B	1⅛	2½	4	1½	40.4
60	TS660	20	10.000	10.333	B	1¼	2 11/16	4⅝	1½	50.0
64	TS664	20	10.666	11.000	B	1¼	2 11/16	4⅝	1½	56.5
66	TS666	20	11.000	11.333	B	1¼	2 11/16	4⅝	1½	59.8
72	TS672	20	12.000	12.333	B	1¼	2 11/16	4⅝	1½	70.0
84	TS684	20	14.000	14.333	B_2	1¼	2 3/16	5	1½	42.8
96	TS696	20	16.000	16.333	B_2	1¼	2 3/16	5	1½	46.0
108	TS6108	20	18.000	18.333	B_2	1¼	2 3/16	5	1½	48.8
120	TS6120	20	20.000	20.333	B_2	1¼	2 3/16	5	1½	51.3

* Recommended maximum bore with keyway and set screw.
† Enlarged pitch diameter with special tooth form.

Bored-to-Size

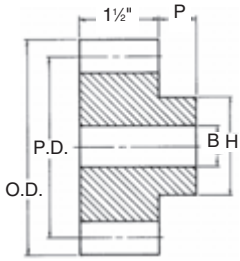
No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS612BS 1	20	2.000	2.333	B	1	¼ × ⅛	(1) 1/4-20 @90	1½	⅞	1.60
14	TS614BS 1	20	2.333	2.667	B	1	¼ × ⅛	(1) 5/16-18 @90	1 13/16	⅞	2.40
14	TS614BS 1-1/8	20	2.333	2.667	B	1⅛	¼ × ⅛	(1) 5/16-18 @90	1 13/16	⅞	2.40
15	TS615BS 1	20	2.500	2.833	B	1	¼ × ⅛	(1) 5/16-18 @90	2	⅞	2.90
15	TS615BS 1-1/8	20	2.500	2.833	B	1⅛	¼ × ⅛	(1) 5/16-18 @90	2	⅞	2.90
15	TS615BS 1-3/16	20	2.500	2.833	B	1 3/16	¼ × ⅛	(1) 5/16-18 @90	2	⅞	2.90
15	TS615BS 1-1/4	20	2.500	2.833	B	1¼	¼ × ⅛	(1) 5/16-18 @90	2	⅞	2.90
16	TS616BS 1	20	2.667	3.000	B	1	¼ × ⅛	(1) 5/16-18 @90	2⅛	⅞	3.40
16	TS616BS 1-1/8	20	2.667	3.000	B	1⅛	¼ × ⅛	(1) 5/16-18 @90	2⅛	⅞	3.40
16	TS616BS 1-3/16	20	2.667	3.000	B	1 3/16	¼ × ⅛	(1) 5/16-18 @90	2⅛	⅞	3.40
16	TS616BS 1-1/4	20	2.667	3.000	B	1¼	¼ × ⅛	(1) 5/16-18 @90	2⅛	⅞	3.40
18	TS618BS 1	20	3.000	3.333	B	1	¼ × ⅛	(1) 5/16-18 @90	2½	⅞	4.60
18	TS618BS 1-1/8	20	3.000	3.333	B	1⅛	¼ × ⅛	(1) 5/16-18 @90	2½	⅞	4.60
18	TS618BS 1-3/16	20	3.000	3.333	B	1 3/16	¼ × ⅛	(1) 5/16-18 @90	2½	⅞	4.60
18	TS618BS 1-1/4	20	3.000	3.333	B	1¼	¼ × ⅛	(1) 5/16-18 @90	3	⅞	4.60
21	TS621BS 1	20	3.500	3.833	B	1	¼ × ⅛	(1) 5/16-18 @90	3	⅞	6.60
21	TS621BS 1-1/8	20	3.500	3.833	B	1⅛	¼ × ⅛	(1) 5/16-18 @90	3	⅞	6.60
21	TS621BS 1-3/16	20	3.500	3.833	B	1 3/16	¼ × ⅛	(1) 5/16-18 @90	3	⅞	6.60
21	TS621BS 1-1/4	20	3.500	3.833	B	1¼	¼ × ⅛	(1) 5/16-18 @90	3	⅞	6.60

20° P.A. Gears Will Not Operate With 14½° P.A.

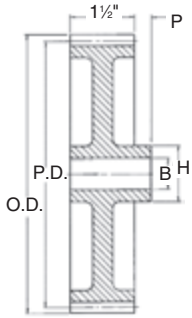
Steel & Cast Stock Spur Gears

20° Pressure Angle

8 DP
1½" Face



Type B



Type B_2, B_3



Type B
Plain With Hub All Steel



Type B_3
Spoke Style Cast

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS812	20	1.500	1.750	B	¾	¾	1⅛	¾	0.7
14	TS814	20	1.750	2.000	B	¾	13/16	1 5/16	¾	1.0
15	TS815	20	1.875	2.125	B	¾	⅞	1 7/16	¾	1.2
16	TS816	20	2.000	2.250	B	⅞	15/16	1 9/16	⅞	1.4
18	TS818	20	2.250	2.500	B	⅞	1⅛	1 13/16	⅞	1.9
19	TS819	20	2.375	2.625	B	⅞	1¼	2	⅞	2.3
20	TS820	20	2.500	2.750	B	⅞	1 5/16	2 1/16	⅞	2.5
22	TS822	20	2.750	3.000	B	⅞	1½	2 5/16	⅞	3.2
24	TS824	20	3.000	3.250	B	⅞	1⅝	2 9/16	⅞	3.9
26	TS826	20	3.250	3.500	B	⅞	1¾	2¾	⅞	4.6
28	TS828	20	3.500	3.750	B	⅞	1¾	2¾	⅞	5.2
30	TS830	20	3.750	4.000	B	1	1¾	2¾	⅞	5.6
32	TS832	20	4.000	4.250	B	1	1⅞	3¼	⅞	6.6
36	TS836	20	4.500	4.750	B	1	2⅛	3½	⅞	8.6
40	TS840	20	5.000	5.250	B	1	2⅛	3½	⅞	10.2
42	TS842	20	5.250	5.500	B	1	2⅛	3½	1	11.4
44	TS844	20	5.500	5.750	B	1	2⅛	3½	1	12.3
48	TS848	20	6.000	6.250	B	1	2⅛	3½	1	14.2

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
52	TC852	20	6.500	6.750	B	1	1⅞	3	1	11.9
56	TC856	20	7.000	7.250	B	1	1⅞	3	1	13.0
60	TC860	20	7.500	7.750	B_2	1	1⅞	3	1	12.0
64	TC864	20	8.000	8.250	B_3	1	1⅞	3	1	12.1
72	TC872	20	9.000	9.250	B_3	1	2 1/16	3¼	1	14.4
80	TC880	20	10.000	10.250	B_3	1⅛	2 1/16	3¼	1¼	17.0
88	TC888	20	11.000	11.250	B_3	1⅛	2 1/16	3¼	1¼	19.0
96	TC896	20	12.000	12.250	B_3	1⅛	2⅛	3½	1¼	23.7
112	TC8112	20	14.000	14.250	B_3	1⅛	2⅛	3½	1¼	25.0
120	TC8120	20	15.000	15.250	B_3	1⅛	2⅛	3½	1¼	25.8
128	TC8128	20	16.000	16.250	B_3	1⅛	2⅛	3½	1¼	28.0
144	TC8144	20	18.000	18.250	B_3	1⅛	2¼	3¾	1¼	32.0
160	TC8160	20	20.000	20.250	B_3	1¼	2¼	3¾	1½	34.8

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS812BS 3/4	20	1.500	1.750	B	¾	3/16 × 3/32	(1) 10-24 @ 90	1⅛	¾	0.70
14	TS814BS 3/4	20	1.750	2.000	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 5/16	¾	1.00
15	TS815BS 3/4	20	1.875	2.125	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 7/16	¾	1.20
15	TS815BS 7/8	20	1.875	2.125	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 7/16	¾	1.20
16	TS816BS 7/8	20	2.000	2.250	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 9/16	⅞	1.40
16	TS816BS 1	20	2.000	2.250	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1 9/16	⅞	1.40
18	TS818BS 7/8	20	2.250	2.500	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/16	⅞	1.90
18	TS818BS 1	20	2.250	2.500	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1 13/16	⅞	1.90
18	TS818BS 1-1/8	20	2.250	2.500	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	1 13/16	⅞	1.90
20	TS820BS 7/8	20	2.500	2.750	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	2 1/16	⅞	2.50
20	TS820BS 1	20	2.500	2.750	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 1/16	⅞	2.50
20	TS820BS 1-1/8	20	2.500	2.750	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2 1/16	⅞	2.50
22	TS822BS 7/8	20	2.750	3.000	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	2 5/16	⅞	3.20
22	TS822BS 1	20	2.750	3.000	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 5/16	⅞	3.20
22	TS822BS 1-1/8	20	2.750	3.000	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2 5/16	⅞	3.20
24	TS824BS 7/8	20	3.000	3.250	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	2 9/16	⅞	3.90
24	TS824BS 1	20	3.000	3.250	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 9/16	⅞	3.90
24	TS824BS 1-1/8	20	3.000	3.250	B	1⅛	¼ × ⅛	(1) 5/16-18 @ 90	2 9/16	⅞	3.90

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

10 DP
1¼" Face

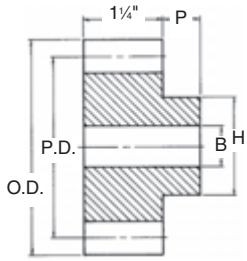
Steel & Cast Stock Spur Gears
20° Pressure Angle



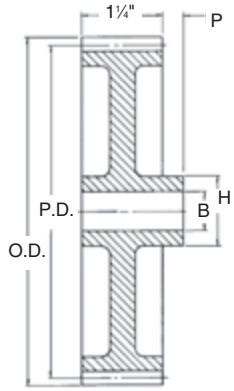
Type B
Plain With Hub
All Steel



Type B_3
Spoke Style
Cast



Type B



Type B_3

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS1012	20	1.200	1.400	B	⅝	⅝	29/32	⅝	0.4
14	TS1014	20	1.400	1.600	B	¾	¾	1 7/64	⅝	0.6
15	TS1015	20	1.500	1.700	B	¾	¾	1 7/32	⅝	0.6
16	TS1016	20	1.600	1.800	B	¾	¾	1 5/16	⅝	0.7
18	TS1018	20	1.800	2.000	B	¾	13/16	1 11/32	⅝	0.9
20	TS1020	20	2.000	2.200	B	⅞	⅞	1 39/64	⅝	1.2
22	TS1022	20	2.200	2.400	B	⅞	1 1/16	1 13/16	⅝	1.5
24	TS1024	20	2.400	2.600	B	⅞	1 3/16	2 1/64	⅝	1.8
25	TS1025	20	2.500	2.700	B	⅞	1¼	2 7/64	⅝	2.0
26	TS1026	20	2.600	2.800	B	⅞	1¼	2⅛	⅝	2.2
28	TS1028	20	2.800	3.000	B	⅞	1 5/16	2 13/32	⅝	2.7
30	TS1030	20	3.000	3.200	B	⅞	1⅜	2½	⅞	3.4
32	TS1032	20	3.200	3.400	B	⅞	1⅜	2½	⅞	3.7
35	TS1035	20	3.500	3.700	B	1	1⅜	2½	⅞	4.2
36	TS1036	20	3.600	3.800	B	1	1⅜	2½	⅞	4.3
40	TS1040	20	4.000	4.200	B	1	2⅛	3½	⅞	6.4
45	TS1045	20	4.500	4.700	B	1	2⅛	3½	⅞	7.5
48	TS1048	20	4.800	5.000	B	1	2⅜	3¾	⅞	8.7
50	TS1050	20	5.000	5.200	B	1	2½	4	⅞	9.6
55	TS1055	20	5.500	5.700	B	1	2½	4	1	11.5
60	TS1060	20	6.000	6.200	B	1	2½	4	1	13.1

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
70	TC1070	20	7.000	7.200	B_3	1	1 11/16	2¾	1	8.2
80	TC1080	20	8.000	8.200	B_3	1	1 11/16	2¾	1	11.2
90	TC1090	20	9.000	9.200	B_3	1	1 13/16	3	1	11.7
100	TC10100	20	10.000	10.200	B_3	1⅛	1 13/16	3	1⅛	12.2

* Recommended maximum bore with keyway and set screw.

Bored-to-Size

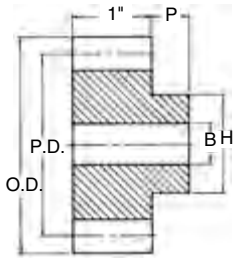
No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1012BS 5/8	20	1.200	1.400	B	⅝	3/16 × 3/32	(1) 10-24 @ 90	29/32	⅝	0.40
14	TS1014BS 5/8	20	1.400	1.600	B	⅝	3/16 × 3/32	(1) 1/4-20 @ 90	1 7/64	⅝	0.60
15	TS1015BS 3/4	20	1.500	1.700	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 7/32	⅝	0.60
16	TS1016BS 3/4	20	1.600	1.800	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 5/16	⅝	0.70
18	TS1018BS 3/4	20	1.800	2.000	B	¾	3/16 × 3/32	(1) 1/4-20 @ 90	1 11/32	⅝	0.88
18	TS1018BS 7/8	20	1.800	2.000	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 11/32	⅝	0.90
20	TS1020BS 7/8	20	2.000	2.200	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 39/64	⅝	1.20
20	TS1020BS 1	20	2.000	2.200	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1 39/64	⅝	1.20
24	TS1024BS 7/8	20	2.400	2.600	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/16	⅝	1.50
24	TS1024BS 1	20	2.400	2.600	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1 13/16	⅝	1.50
25	TS1025BS 7/8	20	2.500	2.700	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	2 7/64	⅝	2.00
25	TS1025BS 1	20	2.500	2.700	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 7/64	⅝	2.00
28	TS1028BS 7/8	20	2.800	3.000	B	⅞	3/16 × 3/32	(1) 1/4-20 @ 90	2 13/32	⅝	2.70
28	TS1028BS 1	20	2.800	3.000	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 13/32	⅝	2.70

20° P.A. Gears Will Not Operate With 14½° P.A.

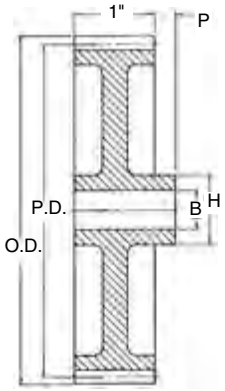
Steel & Cast Stock Spur Gears

20° Pressure Angle

12 DP
1" Face



Type B



Type B_3



Type B
Plain With Hub



Type B_3
Spoke Style

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS1212	20	1.000	1.167	B	½	½	¾	⅝	0.21
13	TS1213	20	1.083	1.250	B	⅝	⅝	13/16	⅝	0.21
14	TS1214	20	1.167	1.333	B	⅝	⅝	29/32	⅝	0.28
15	TS1215	20	1.250	1.417	B	⅞	⅝	63/64	⅝	0.34
16	TS1216	20	1.333	1.500	B	⅝	⅝	1 1/16	⅝	0.41
18	TS1218	20	1.500	1.667	B	¾	¾	1¼	⅝	0.51
19	TS1219	20	1.583	1.750	B	¾	¾	1 5/16	⅝	0.59
20	TS1220	20	1.667	1.833	B	¾	¾	1 5/16	⅝	0.65
21	TS1221	20	1.750	1.917	B	¾	13/16	1 25/64	⅝	0.75
22	TS1222	20	1.833	2.000	B	¾	⅞	1 9/16	⅝	0.88
24	TS1224	20	2.000	2.166	B	¾	15/16	1 41/64	⅝	1.06
25	TS1225	20	2.083	2.250	B	¾	1 1/16	1 13/16	⅝	1.22
26	TS1226	20	2.167	2.333	B	¾	1⅛	1⅞	⅝	1.33
28	TS1228	20	2.333	2.500	B	¾	1¼	2 1/16	⅝	1.60
30	TS1230	20	2.500	2.667	B	¾	1 5/16	2 5/32	⅝	1.83
32	TS1232	20	2.667	2.833	B	¾	1 5/16	2¼	⅝	2.08
36	TS1236	20	3.000	3.167	B	¾	1⅜	2½	⅞	2.98
42	TS1242	20	3.500	3.666	B	¾	1⅜	2½	⅞	3.71
48	TS1248	20	4.000	4.166	B	⅞	1⅞	3	⅞	4.99
54	TS1254	20	4.500	4.666	B	⅞	2⅛	3½	⅞	6.57
60	TS1260	20	5.000	5.166	B	⅞	2⅛	3½	⅞	7.63
66	TS1266	20	5.500	5.666	B	⅞	2⅛	3½	⅞	8.80
72	TS1272	20	6.000	6.166	B	⅞	2⅛	3½	⅞	10.08

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
84	TC1284	20	7.000	7.166	B_3	⅞	1 7/16	2½	⅞	5.9
96	TC1296	20	8.000	8.166	B_3	⅞	1 7/16	2½	⅞	7.0
108	TC12108	20	9.000	9.166	B_3	⅞	1 7/16	2½	⅞	7.6
120	TC12120	20	10.000	10.166	B_3	1	1 7/16	2½	⅞	10.3
144	TC12144	20	12.000	12.166	B_3	1	1 1/16	2¾	1	10.4

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1212BS 1/2	20	1.000	1.167	B	½	NONE	(1) 10-24	¾	⅝	0.21
13	TS1213BS 5/8	20	1.083	1.250	B	⅝	NONE	(1) 1/4-20 @ 90	13/16	⅝	0.21
14	TS1214BS 5/8	20	1.167	1.333	B	⅝	3/16 × 3/32	(1) 10-24 @ 90	29/32	⅝	0.28
15	TS1215BS 5/8	20	1.250	1.417	B	⅝	3/16 × 3/32	(1) 10-24 @ 90	63/64	⅝	0.34
16	TS1216BS 5/8	20	1.333	1.500	B	⅝	3/16 × 3/32	(1)1/4-20 @ 90	1 1/16	⅝	0.41
18	TS1218BS 3/4	20	1.500	1.667	B	¾	3/16 × 3/32	(1)1/4-20 @ 90	1¼	⅝	0.51
20	TS1220BS 3/4	20	1.667	1.833	B	¾	3/16 × 3/32	(1)1/4-20 @ 90	1 5/16	⅝	0.65
21	TS1221BS 3/4	20	1.750	1.917	B	¾	3/16 × 3/32	(1)1/4-20 @ 90	1 25/64	⅝	0.75
21	TS1221BS 7/8	20	1.750	1.917	B	⅞	3/16 × 3/32	(1)1/4-20 @ 90	1 25/64	⅝	0.75
24	TS1224BS 3/4	20	2.000	2.167	B	¾	3/16 × 3/32	(1)1/4-20 @ 90	1 41/64	⅝	1.06
24	TS1224BS 7/8	20	2.000	2.167	B	⅞	3/16 × 3/32	(1)1/4-20 @ 90	1 41/64	⅝	1.06
24	TS1224BS 1	20	2.000	2.167	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1 41/64	⅝	1.06
28	TS1228BS 3/4	20	2.333	2.500	B	¾	3/16 × 3/32	(1)1/4-20 @ 90	2 1/16	⅝	1.60
28	TS1228BS 7/8	20	2.333	2.500	B	⅞	3/16 × 3/32	(1)1/4-20 @ 90	2 1/16	⅝	1.60
28	TS1228BS 1	20	2.333	2.500	B	1	¼ × ⅛	(1) 5/16-18 @ 90	2 1/16	⅝	1.60

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

16 DP
¾" Face

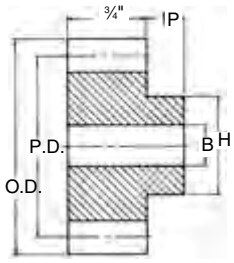
Steel & Cast Stock Spur Gears
20° Pressure Angle



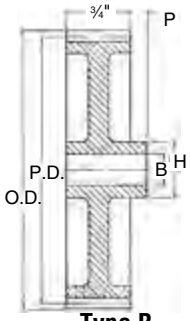
Type B
Plain With Hub



Type B_3
Spoke Style



Type B



Type B_3

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS1612	20	0.750	0.875	B	⅜	⅜	9⁄16	½	0.09
13	TS1613	20	0.812	0.938	B	⅜	⅜	⅝	½	0.11
14	TS1614	20	0.875	1.000	B	⅜	⅜	11⁄16	½	0.14
15	TS1615	20	0.937	1.063	B	⅜	½	¾	½	0.17
16	TS1616	20	1.000	1.125	B	½	½	13⁄16	½	0.17
17	TS1617	20	1.062	1.188	B	½	½	⅞	½	0.20
18	TS1618	20	1.125	1.250	B	½	½	15⁄16	½	0.24
20	TS1620	20	1.250	1.375	B	⅝	⅝	1 1⁄16	½	0.28
21	TS1621	20	1.312	1.438	B	⅝	⅝	1⅛	½	0.32
22	TS1622	20	1.375	1.500	B	⅝	⅝	1 3⁄16	½	0.36
24	TS1624	20	1.500	1.625	B	⅝	¾	1 5⁄16	½	0.46
26	TS1626	20	1.625	1.750	B	⅝	⅞	1 7⁄16	½	0.56
28	TS1628	20	1.750	1.875	B	⅝	⅞	1½	½	0.65
30	TS1630	20	1.875	2.000	B	⅝	15⁄16	1⅝	½	0.77
32	TS1632	20	2.000	2.125	B	⅝	1	1¾	½	0.90
36	TS1636	20	2.250	2.375	B	⅝	1¼	2	½	1.18
40	TS1640	20	2.500	2.625	B	⅝	1¼	2	⅝	1.48
48	TS1648	20	3.000	3.125	B	⅝	1¼	2	⅝	1.94
56	TS1656	20	3.500	3.625	B	⅝	1⅜	2½	⅝	2.79
60	TS1660	20	3.750	3.875	B	⅝	1½	2¾	⅝	3.28
64	TS1664	20	4.000	4.125	B	¾	1½	2¾	¾	3.74
72	TS1672	20	4.500	4.625	B	¾	1⅞	3	¾	4.69
80	TS1680	20	5.000	5.125	B	¾	2⅛	3½	¾	6.03
84	TS1684	20	5.250	5.375	B	¾	2⅛	3½	¾	6.46
96	TS1696	20	6.000	6.125	B	¾	2⅛	3½	¾	7.86
104	TS16104	20	6.500	6.625	B	¾	2⅛	3½	¾	8.91

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
112	TC16112	20	7.000	7.125	B_3	¾	1 7⁄16	2½	¾	4.4
128	TC16128	20	8.000	8.125	B_3	¾	1 11⁄16	2¾	¾	5.5
144	TC16144	20	9.000	9.125	B_3	¾	1 11⁄16	2¾	¾	6.4
160	TC16160	20	10.000	10.125	B_3	⅞	1 11⁄16	2¾	¾	8.1
192	TC16192	20	12.000	12.125	B_3	⅞	1 13⁄16	3	1	10.1

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

Bored-to-Size

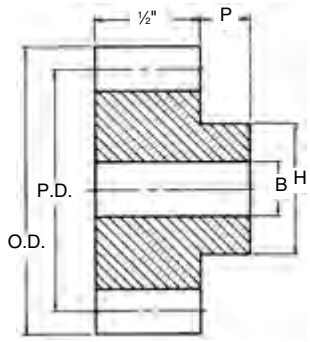
No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1612BS 3/8	20	0.750	0.875	B	⅜	NONE	(1) 8-32	9⁄16	½	0.09
14	TS1614BS 3/8	20	0.875	1.000	B	⅜	NONE	(1) 10-24	11⁄16	½	0.14
15	TS1615BS 3/8	20	0.937	1.063	B	⅜	NONE	(1) 10-24	¾	½	0.17
15	TS1615BS 1/2	20	0.937	1.063	B	½	NONE	(1) 10-24	¾	½	0.17
16	TS1616BS 1/2	20	1.000	1.125	B	½	NONE	(1) 10-24	13⁄16	½	0.17
18	TS1618BS 1/2	20	1.125	1.250	B	½	NONE	(1) 1/4-20	15⁄16	½	0.24
20	TS1620BS 5/8	20	1.250	1.375	B	⅝	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1 1⁄16	½	0.28
24	TS1624BS 5/8	20	1.500	1.625	B	⅝	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1 5⁄16	½	0.46
24	TS1624BS 3/4	20	1.500	1.625	B	¾	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1 5⁄16	½	0.46
28	TS1628BS 5/8	20	1.750	1.875	B	⅝	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1½	½	0.65
28	TS1628BS 3/4	20	1.750	1.875	B	¾	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1½	½	0.65
30	TS1630BS 5/8	20	1.875	2.000	B	⅝	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1⅝	½	0.77
30	TS1630BS 3/4	20	1.875	2.000	B	¾	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1⅝	½	0.77
30	TS1630BS 7/8	20	1.875	2.000	B	⅞	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1⅝	½	0.77
32	TS1632BS 5/8	20	2.000	2.125	B	⅝	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1¾	½	0.90
32	TS1632BS 3/4	20	2.000	2.125	B	¾	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1¾	½	0.90
32	TS1632BS 7/8	20	2.000	2.125	B	⅞	3⁄16 × 3⁄32	(1) 1/4-20 @ 90	1¾	½	0.90
32	TS1632BS 1	20	2.000	2.125	B	1	¼ × ⅛	(1) 5/16-18 @ 90	1¾	½	0.90

Steel Stock Spur Gears

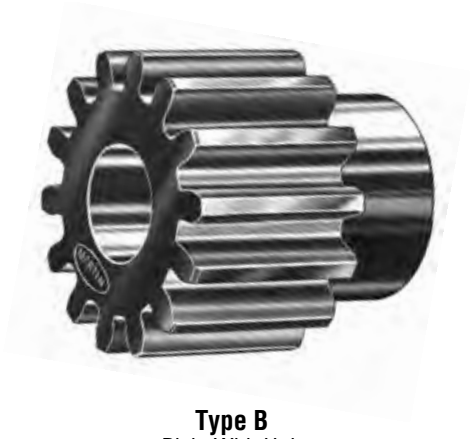
20° Pressure Angle

20 DP

½" Face



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS2012	20	0.600	0.700	B	5/16	5/16	15/32	7/16	0.04
14	TS2014	20	0.700	0.800	B	5/16	5/16	35/64	7/16	0.06
15	TS2015	20	0.750	0.850	B	3/8	3/8	39/64	7/16	0.07
16	TS2016	20	0.800	0.900	B	3/8	3/8	21/32	7/16	0.08
18	TS2018	20	0.900	1.000	B	3/8	3/8	3/4	7/16	0.12
20	TS2020	20	1.000	1.100	B	1/2	1/2	55/64	7/16	0.13
21	TS2021	20	1.050	1.150	B	1/2	1/2	7/8	7/16	0.15
22	TS2022	20	1.100	1.200	B	1/2	1/2	31/32	7/16	0.17
24	TS2024	20	1.200	1.300	B	1/2	9/16	1 1/16	7/16	0.22
25	TS2025	20	1.250	1.350	B	1/2	5/8	1 7/64	7/16	0.24
28	TS2028	20	1.400	1.500	B	1/2	11/16	1 17/64	7/16	0.32
30	TS2030	20	1.500	1.600	B	1/2	13/16	1 23/64	7/16	0.38
32	TS2032	20	1.600	1.700	B	1/2	7/8	1 7/16	1/2	0.46
35	TS2035	20	1.750	1.850	B	1/2	7/8	1 9/16	1/2	0.56
36	TS2036	20	1.800	1.900	B	1/2	15/16	1 5/8	1/2	0.60
40	TS2040	20	2.000	2.100	B	1/2	1 1/16	1 13/16	1/2	0.76
45	TS2045	20	2.250	2.350	B	1/2	1 1/4	2	1/2	0.95
50	TS2050	20	2.500	2.600	B	1/2	1 1/4	2	1/2	1.08
60	TS2060	20	3.000	3.100	B	1/2	1 5/16	2 1/8	1/2	1.45
70	TS2070	20	3.500	3.600	B	1/2	1 7/16	2 3/8	1/2	1.93
72	TS2072	20	3.600	3.700	B	1/2	1 7/16	2 3/8	1/2	2.01
80	TS2080	20	4.000	4.100	B	5/8	1 1/2	2 1/2	5/8	2.35
84	TS2084	20	4.200	4.300	B	5/8	1 1/2	2 1/2	5/8	2.53
90	TS2090	20	4.500	4.600	B	5/8	1 1/2	2 1/2	5/8	2.82
96	TS2096	20	4.800	4.900	B	5/8	1 1/2	2 1/2	5/8	3.14
100	TS20100	20	5.000	5.100	B	5/8	1 1/2	2 1/2	5/8	3.35
120	TS20120	20	6.000	6.100	B	5/8	1 1/2	2 1/2	5/8	4.58

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS2012BS 5/16	20	0.600	0.700	B	5/16	NONE	#35 P.H.	15/32	7/16	0.04
14	TS2014BS 5/16	20	0.700	0.800	B	5/16	NONE	#35 P.H.	35/64	7/16	0.06
15	TS2015BS 3/8	20	0.750	0.850	B	3/8	NONE	(1) 8-32	39/64	7/16	0.07
16	TS2016BS 3/8	20	0.800	0.900	B	3/8	NONE	(1) 8-32	21/32	7/16	0.08
18	TS2018BS 3/8	20	0.900	1.000	B	3/8	NONE	(1) 10-24	3/4	7/16	0.12
20	TS2020BS 1/2	20	1.000	1.100	B	1/2	NONE	(1) 10-24	55/64	7/16	0.13
24	TS2024BS 1/2	20	1.200	1.300	B	1/2	NONE	(1) 1/4-20	1 1/16	7/16	0.22
25	TS2025BS 1/2	20	1.250	1.350	B	1/2	NONE	(1) 1/4-20	1 7/64	7/16	0.24
30	TS2030BS 1/2	20	1.500	1.600	B	1/2	NONE	(1) 1/4-20	1 23/64	7/16	0.38
35	TS2035BS 1/2	20	1.750	1.850	B	1/2	NONE	(1) 1/4-20	1 9/16	1/2	0.56
40	TS2040BS 1/2	20	2.000	2.100	B	1/2	NONE	(1) 1/4-20	1 13/16	1/2	0.76
40	TS2040BS 5/8	20	2.000	2.100	B	5/8	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.76
40	TS2040BS 3/4	20	2.000	2.100	B	3/4	3/16 × 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.76

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)
4 Diametral Pitch — 20° Pressure Angle — 3½" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	2.62		5.09		9.64		17.41		23.81		33.72		37.64		46.69		53.06			
12•	3.10		6.02		11.40		20.59		28.15		39.88		44.52		55.21		62.75			
13	3.62		7.03		13.30		24.03		32.86		46.55		51.97		64.45		73.25			
14•	4.07		7.91		14.98		27.06		37.00		52.41		58.51		72.57		82.48			
15•	4.57		8.88		16.80		30.35		41.51		58.80		65.64		81.41		92.53			
16•	4.97		9.67		18.30		33.05		45.20		64.03		71.47		88.64		100.75			
17	5.41		10.51		19.90		35.95		49.16		69.64		77.74		96.42					
18•	5.84		11.35		21.49		38.82		53.09		75.20		83.95		104.12					
19	6.29		12.22		23.13		41.77		57.13		80.93		90.33		112.04					
20•	6.74		13.11		24.81		44.81		61.29		86.81		96.91							
21	7.19		13.98		26.46		47.79		65.36		92.58		103.34							
22•	7.65		14.87		28.14		50.83		69.52		98.48		109.93							
24•	8.52		16.56		31.35		56.63		77.45		109.71		122.47							
25	8.96		17.41		32.95		59.52		81.39		115.30		128.70							
26	9.43		18.32		34.67		62.63		85.65		121.32		135.43							
27	9.90		19.24		36.42		65.79		89.97		127.45		142.27							
28•	10.39		20.18		38.21		69.01		94.38		133.69		149.24							
30•	11.32		22.00		41.63		75.20		102.84		145.69									
32•	12.27		23.85		45.15		81.56		111.54		158.00									
33	12.76		24.80		46.95		84.80		115.97		164.28									
35	13.79		26.81		50.74		91.66		125.35		177.56									
36•	14.30		27.79		52.61		95.03		129.96		184.10						**ALL**			
40•	16.40		31.87		60.32		108.95		149.00								**STEEL**			
42	17.39		33.80		63.98		115.58		158.06											
44•	18.41		35.77		67.71		122.31		167.27											
45	18.92		36.77		69.60		125.72		171.93											
48•	20.54		39.91		75.54		136.46		186.61											
50	21.50		41.78		79.08		142.84		195.35											
52	22.52		43.77		82.85		149.65		204.66											
54	23.56		45.78		86.66		156.54		214.08											
55	24.00		46.63		88.26		159.44		218.04											
56•	24.49		47.59		90.09		162.73													
60•	26.62		51.73		97.92		176.87													
64•	28.60		55.57		105.19		190.01													
66	29.63		57.58		108.99		196.87													
70	31.65		61.50		116.41		210.27													
72•	32.55		63.26		119.73		216.28													
80•	36.76		71.43		135.21		244.23													
84	38.86		75.52		142.94		258.21													
88	40.80		79.30		150.09															
90	41.83		81.28		153.85															
96	44.92		87.29		165.23															
100	46.90		91.13		172.50															
108	50.87		98.87		187.14															
110	51.93		100.92		191.03															
112	52.88		102.76		194.50															
120	57.03		110.84		209.79															
144	54.18		105.28		199.28															
160	77.39		150.40		284.68															
200	97.58		189.64		358.95															

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)
5 Diametral Pitch — 20° Pressure Angle — 2½" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11•	1.20		2.35		4.50		8.28		11.49		16.67		18.78		23.82		27.50		32.54	
12	1.42		2.78		5.32		9.79		13.59		19.71		22.21		28.17		32.53			
13•	1.66		3.25		6.21		11.43		15.86		23.01		25.93		32.88		37.97			
14•	1.87		3.66		7.00		12.87		17.86		25.90		29.19		37.02		42.75			
15•	2.10		4.10		7.85		14.44		20.04		29.06		32.75		41.53		47.96			
16	2.29		4.47		8.55		15.72		21.82		31.64		35.66		45.22		52.22			
17•	2.49		4.86		9.30		17.10		23.73		34.42		38.79		49.19		56.80			
18	2.69		5.25		10.04		18.46		25.63		37.17		41.88		53.11		61.34			
19•	2.89		5.65		10.80		19.87		27.58		40.00		45.07		57.16		66.01			
20	3.10		6.06		11.59		21.31		29.58		42.91		48.35		61.31					
21	3.31		6.46		12.36		22.73		31.55		45.76		51.56		65.39					
22•	3.52		6.87		13.15		24.18		33.56		48.67		54.85		69.55					
24•	3.92		7.66		14.65		26.93		37.39		54.22		61.10		77.49					
25	4.12		8.05		15.39		28.30		39.29		56.98		64.21		81.43					
26	4.33		8.47		16.20		29.78		41.34		59.96		67.57							
27•	4.55		8.90		17.02		31.29		43.43		62.99		70.98							
28•	4.78		9.33		17.85		32.82		45.56		66.08		74.46							
30	5.20		10.17		19.45		35.76		49.64		72.00		81.14							
32	5.64		11.03		21.09		38.79		53.84		78.09		88.00							
33•	5.87		11.47		21.93		40.33		55.98		81.19		91.49							
35	6.34		12.40		23.70		43.59		60.51		87.76		98.89							
36•	6.58		12.85		24.58		45.19		62.73		90.99									
40	7.54		14.73		28.18		51.81		71.92		104.32									
42	8.00		15.63		29.89		54.96		76.30		110.66									
44•	8.46		16.54		31.63		58.17		80.74		117.11									
45	8.70		17.00		32.51		59.79		82.99											
48•	9.44		18.45		35.29		64.89		90.08											
50	9.89		19.32		36.94		67.93		94.30											
52	10.36		20.24		38.70		71.17		98.79											
54	10.83		21.17		40.48		74.44		103.34											
55	11.03		21.56		41.23		75.82		105.25											
56•	11.26		22.01		42.08		77.39		107.42								**ALL**			
60	12.24		23.92		45.74		84.11		116.76								**STEEL**			
64	13.15		25.70		49.14		90.36		125.43											
66•	13.62		26.62		50.91		93.62		129.96											
70	14.55		28.44		54.38		100.00		138.81											
72•	14.97		29.25		55.93		102.85													
80	16.90		33.03		63.16		116.15													
84	17.87		34.92		66.78		122.79													
88•	18.76		36.67		70.12		128.93													
90	19.23		37.58		71.87		132.16													
96•	20.65		40.36		77.19		141.93													
100	21.56		42.14		80.58															
108•	23.39		45.71		87.42															
110	23.88		46.67		89.24															
112•	24.31		47.51																	
120	26.23		51.25																	
144	24.91		48.68																	
160	35.59		69.54																	
200	44.87		87.69																	

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

6 Diametral Pitch — 20° Pressure Angle — 2" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11•	0.67		1.32		2.54		4.73		6.63		9.79		11.11		14.34		16.78		20.21	
12•	0.79		1.56		3.00		5.59		7.84		11.58		13.14		16.96		19.84		23.91	
13	0.93		1.82		3.50		6.52		9.15		13.51		15.34		19.80		23.16		27.91	
14•	1.04		2.05		3.94		7.35		10.31		15.21		17.27		22.29		26.08		31.42	
15•	1.17		2.30		4.43		8.24		11.56		17.07		19.37		25.01		29.26		35.25	
16•	1.28		2.50		4.82		8.97		12.59		18.58		21.10		27.23		31.85		38.38	
17	1.39		2.72		5.24		9.76		13.69		20.21		22.95		29.61		34.65			
18•	1.50		2.94		5.66		10.54		14.79		21.83		24.78		31.98		37.42			
19	1.61		3.16		6.09		11.34		15.91		23.49		26.66		34.41		40.26			
20	1.73		3.39		6.53		12.17		17.07		25.20		28.60		36.92		43.19			
21•	1.84		3.62		6.97		12.97		18.21		26.87		30.50		39.37		46.06			
22	1.96		3.85		7.41		13.80		19.37		28.59		32.45		41.88		49.00			
24•	2.19		4.29		8.26		15.38		21.57		31.85		36.15		46.65		54.59			
25	2.30		4.51		8.68		16.16		22.67		33.47		37.99		49.03					
26	2.42		4.74		9.13		17.00		23.86		35.22		39.97		51.59					
27•	2.54		4.98		9.59		17.86		25.06		37.00		41.99		54.20					
28	2.66		5.22		10.06		18.74		26.29		38.81		44.05		56.85					
30•	2.90		5.69		10.97		20.42		28.65		42.29		48.00		61.95					
32	3.15		6.17		11.89		22.14		31.07		45.86		52.06							
33•	3.27		6.42		12.36		23.02		32.31		47.69		54.13							
35	3.54		6.94		13.36		24.88		34.92		51.54		58.50							
36•	3.67		7.19		13.86		25.80		36.20		53.44		60.66							
40	4.21		8.25		15.89		29.58		41.51		61.27		69.54							
42•	4.46		8.75		16.85		31.38		44.03		64.99		73.77							
44	4.72		9.26		17.83		33.21		46.59		68.78		78.07							
45	4.85		9.52		18.33		34.13		47.89		70.70		80.25							
48•	5.27		10.33		19.90		37.05		51.98		76.73									
50	5.51		10.81		20.83		38.78		54.42		80.32									
52	5.78		11.33		21.82		40.63		57.01		84.15									
54•	6.04		11.85		22.82		42.50		59.63		88.02									
55	6.15		12.07		23.25		43.29		60.74											
56	6.28		12.32		23.73		44.18		61.99							ALL				
60•	6.83		13.39		25.79		48.02		67.38							STEEL				
64•	7.33		14.39		27.70		51.59		72.38											
66•	7.60		14.91		28.71		53.45		75.00											
70	8.12		15.92		30.66		57.09		80.10											
72•	8.35		16.37		31.54		58.72		82.39											
80	9.43		18.49		35.61		66.31		93.04											
84•	9.97		19.55		37.65		70.10		98.36											
88	10.46		20.53		39.53		73.61		103.28											
90	10.73		21.04		40.52		75.45													
96•	11.52		22.60		43.52		81.03													
100	12.03		23.59		45.43		84.60													
108•	13.05		25.59		49.29		91.77													
110	13.32		26.12		50.31		93.68													
112	13.56		26.60		51.23		95.39													
120•	14.63		28.69		55.25															
144	13.89		27.25		52.49															
160	19.85		38.93		74.98															
200	25.03		49.09		94.54															

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

8 Diametral Pitch **20° Pressure Angle** **1½" Face**

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.28		0.56		1.09		2.06		2.94		4.45		5.10		6.76		8.07		10.00	
12•	0.34		0.66		1.29		2.44		3.48		5.26		6.03		7.99		9.54		11.83	
13	0.39		0.78		1.51		2.85		4.06		6.14		7.04		9.33		11.14		13.81	
14•	0.44		0.87		1.70		3.21		4.57		6.91		7.93		10.50		12.54		15.55	
15•	0.50		0.98		1.90		3.60		5.13		7.76		8.90		11.78		14.07		17.45	
16•	0.54		1.07		2.07		3.92		5.58		8.44		9.69		12.83		15.31		18.99	
17	0.59		1.16		2.25		4.26		6.07		9.18		10.53		13.95		16.66		20.66	
18•	0.64		1.25		2.43		4.61		6.56		9.92		11.38		15.07		17.99		22.31	
19•	0.68		1.35		2.62		4.96		7.06		10.67		12.24		16.22		19.36		24.01	
20•	0.73		1.45		2.81		5.32		7.57		11.45		13.13		17.40		20.77		25.76	
21	0.78		1.54		3.00		5.67		8.07		12.21		14.00		18.55		22.14			
22•	0.83		1.64		3.19		6.03		8.59		12.99		14.90		19.73		23.56			
24•	0.93		1.83		3.55		6.72		9.56		14.47		16.60		21.98		26.24			
25	0.97		1.92		3.73		7.06		10.05		15.21		17.44		23.10		27.58			
26•	1.02		2.02		3.93		7.43		10.58		16.00		18.35		24.31		29.02			
27	1.08		2.12		4.12		7.80		11.11		16.81		19.28		25.54		30.49			
28•	1.13		2.23		4.33		8.19		11.66		17.63		20.22		26.79		31.98			
30•	1.23		2.43		4.71		8.92		12.70		19.21		22.04		29.19		34.85			
32•	1.33		2.63		5.11		9.68		13.77		20.84		23.90		31.66					
33	1.39		2.73		5.31		10.06		14.32		21.67		24.85		32.92					
35	1.50		2.96		5.74		10.87		15.48		23.42		26.86		35.58					
36•	1.56		3.06		5.96		11.27		16.05		24.28		27.85		36.89					
40•	1.78		3.51		6.83		12.92		18.40		27.84		31.93		42.29					
42•	1.89		3.73		7.24		13.71		19.52		29.53		33.87		44.86					
44•	2.00		3.94		7.67		14.51		20.66		31.25		35.84		47.48					
45	2.06		4.05		7.88		14.91		21.23		32.12		36.84							
48•	2.23		4.40		8.55		16.19		23.05		34.86		39.99					STEEL		
50		1.12		2.21		4.30		8.13		11.58		17.52		20.09				CAST		
52•		1.18		2.32		4.50		8.52		12.13		18.35		21.05						
54		1.23		2.42		4.71		8.91		12.69		19.20		22.02						
55		1.25		2.47		4.80		9.08		12.93		19.55		22.43						
56•		1.28		2.52		4.90		9.27		13.19		19.96		22.89						
60•		1.39		2.74		5.32		10.07		14.34		21.69		24.88						
64•		1.49		2.94		5.72		10.82		15.40		23.30								
66		1.55		3.05		5.92		11.21		15.96		24.14								
70		1.65		3.26		6.33		11.97		17.05		25.79								
72•		1.70		3.35		6.51		12.32		17.53										
80•		1.92		3.78		7.35		13.91		19.80										
84		2.03		4.00		7.77		14.70		20.93										
88•		2.13		4.20		8.16		15.44		21.98										
90		2.18		4.30		8.36		15.82		22.53										
96•		2.34		4.62		8.98		16.99		24.20										
100		2.45		4.82		9.37		17.74		25.26										
108		2.66		5.23		10.17		19.25		27.40										
110		2.71		5.34		10.38		19.65		27.97										
112•		2.76		5.44		10.57		20.01		28.48										
120•		2.98		5.87		11.40		21.58		30.72										
144•		2.83		5.57		10.83		20.50												
160•		4.04		7.96		15.47		29.28												
200		5.09		10.04		19.51		36.92												

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

10 Diametral Pitch — 20° Pressure Angle — 1¼" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.15		0.30		0.59		1.13		1.62		2.49		2.87		3.88		4.70		5.95	
12•	0.18		0.36		0.70		1.33		1.91		2.94		3.40		4.58		5.55		7.04	
13	0.21		0.42		0.81		1.55		2.23		3.43		3.97		5.35		6.48		8.22	
14•	0.24		0.47		0.91		1.75		2.51		3.87		4.47		6.02		7.30		9.25	
15•	0.27		0.53		1.03		1.96		2.82		4.34		5.01		6.76		8.19		10.38	
16•	0.29		0.57		1.12		2.14		3.07		4.72		5.45		7.36		8.91		11.30	
17	0.31		0.62		1.22		2.32		3.34		5.14		5.93		8.00		9.70		12.30	
18•	0.34		0.67		1.31		2.51		3.61		5.55		6.41		8.64		10.47		13.28	
19	0.37		0.72		1.41		2.70		3.88		5.97		6.89		9.30		11.27		14.29	
20•	0.39		0.78		1.52		2.90		4.16		6.40		7.40		9.98		12.09		15.33	
21	0.42		0.83		1.62		3.09		4.44		6.83		7.89		10.64		12.89		16.35	
22•	0.44		0.88		1.72		3.29		4.72		7.26		8.39		11.32		13.71		17.39	
24•	0.50		0.98		1.91		3.66		5.26		8.09		9.35		12.61		15.28		19.37	
25•	0.52		1.03		2.01		3.85		5.53		8.50		9.82		13.25		16.05		20.36	
26•	0.55		1.08		2.12		4.05		5.82		8.95		10.34		13.94		16.89			
27	0.58		1.14		2.22		4.25		6.11		9.40		10.86		14.65		17.75			
28•	0.60		1.19		2.33		4.46		6.41		9.86		11.39		15.37		18.61			
30•	0.66		1.30		2.54		4.86		6.99		10.74		12.41		16.74		20.28			
32•	0.71		1.41		2.76		5.27		7.58		11.65		13.46		18.16		22.00			
33	0.74		1.47		2.87		5.48		7.88		12.11		14.00		18.88		22.87			
35•	0.80		1.59		3.10		5.93		8.52		13.09		15.13		20.41		24.72			
36•	0.83		1.64		3.21		6.14		8.83		13.58		15.68		21.16		25.63			
40•	0.95		1.88		3.68		7.04		10.12		15.56		17.98		24.26					
42	1.01		2.00		3.91		7.47		10.74		16.51		19.07		25.73					
44	1.07		2.12		4.14		7.91		11.36		17.47		20.19		27.23					
45•	1.10		2.18		4.25		8.13		11.68		17.96		20.75		27.99					
48•	1.19		2.36		4.61		8.82		12.68		19.49		22.52		30.38					
50•	1.25		2.47		4.83		9.24		13.27		20.41		23.57							
52	1.31		2.59		5.06		9.68		13.90		21.38		24.70							
54	1.37		2.71		5.29		10.12		14.54		22.36		25.83							
55•	1.40		2.76		5.39		10.31		14.81		22.78		26.31							
56	1.42		2.82		5.50		10.52		15.12		23.25		26.86							
60•	1.55		3.06		5.98		11.44		16.43		25.27		29.19				STEEL			
64		0.80		1.58		3.08		5.90		8.47		13.03		15.05			CAST			
66		0.83		1.63		3.19		6.11		8.78		13.50		15.60						
70•		0.88		1.75		3.41		6.53		9.38		14.42		16.66						
72		0.91		1.80		3.51		6.71		9.65		14.83		17.13						
80•		1.03		2.03		3.96		7.58		10.89		16.75								
84		1.08		2.14		4.19		8.01		11.52		17.71								
88		1.14		2.25		4.40		8.41		12.09		18.59								
90•		1.17		2.31		4.51		8.62		12.39		19.06								
96		1.25		2.48		4.84		9.26		13.31										
100•		1.31		2.59		5.06		9.67		13.90										
108		1.42		2.81		5.49		10.49		15.08										
110		1.45		2.87		5.60		10.71		15.39										
112		1.48		2.92		5.70		10.90		15.67										
120		1.59		3.15		6.15		11.76		16.90										
144		1.51		2.99		5.84		11.17		16.05										
160		2.16		4.27		8.35		15.96		22.93										
200		2.72		5.38		10.52		20.12		28.92										

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

12 Diametral Pitch — 20° Pressure Angle — 1" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.08		0.17		0.33		0.63		0.92		1.43		1.66		2.27		2.78		3.58	
12•	0.10		0.20		0.39		0.75		1.09		1.69		1.96		2.68		3.28		4.24	
13•	0.12		0.23		0.45		0.88		1.27		1.97		2.29		3.13		3.83		4.95	
14•	0.13		0.26		0.51		0.99		1.43		2.22		2.58		3.52		4.32		5.57	
15•	0.15		0.29		0.57		1.11		1.60		2.49		2.89		3.95		4.84		6.25	
16•	0.16		0.32		0.63		1.20		1.74		2.71		3.15		4.30		5.27		6.81	
17	0.18		0.35		0.68		1.31		1.90		2.95		3.42		4.68		5.74		7.40	
18•	0.19		0.37		0.73		1.42		2.05		3.18		3.70		5.06		6.19		7.99	
19•	0.20		0.40		0.79		1.52		2.20		3.43		3.98		5.44		6.67		8.60	
20•	0.22		0.43		0.85		1.63		2.36		3.68		4.27		5.84		7.15		9.23	
21•	0.23		0.46		0.90		1.74		2.52		3.92		4.55		6.22		7.63		9.84	
22•	0.25		0.49		0.96		1.85		2.68		4.17		4.84		6.62		8.11		10.47	
24•	0.28		0.55		1.07		2.06		2.99		4.64		5.39		7.38		9.04		11.66	
25•	0.29		0.57		1.13		2.17		3.14		4.88		5.67		7.75		9.50		12.26	
26•	0.31		0.60		1.19		2.28		3.30		5.14		5.96		8.16		9.99		12.90	
27	0.32		0.63		1.25		2.40		3.47		5.40		6.27		8.57		10.50		13.55	
28•	0.34		0.67		1.31		2.52		3.64		5.66		6.57		8.99		11.01		14.21	
30•	0.37		0.73		1.42		2.74		3.96		6.17		7.16		9.79		12.00		15.49	
32•	0.40		0.79		1.54		2.97		4.30		6.69		7.77		10.62		13.01			
33	0.41		0.82		1.61		3.09		4.47		6.95		8.08		11.05		13.53			
35	0.45		0.88		1.73		3.34		4.83		7.52		8.73		11.94		14.63			
36•	0.46		0.92		1.80		3.46		5.01		7.79		9.05		12.38		15.16			
40	0.53		1.05		2.06		3.97		5.74		8.94		10.38		14.19		17.39			
42•	0.56		1.12		2.19		4.21		6.09		9.48		11.01		15.05		18.44			
44	0.60		1.18		2.32		4.46		6.45		10.03		11.65		15.93		19.52			
45	0.61		1.21		2.38		4.58		6.63		10.31		11.97		16.37		20.06			
48•	0.66		1.32		2.58		4.97		7.19		11.19		13.00		17.77					
50	0.70		1.38		2.70		5.21		7.53		11.71		13.60		18.60					
52	0.73		1.44		2.83		5.45		7.89		12.27		14.25		19.49					
54•	0.76		1.51		2.96		5.71		8.25		12.84		14.91		20.39					
55	0.78		1.54		3.02		5.81		8.41		13.08		15.18		20.77					
56	0.79		1.57		3.08		5.93		8.58		13.35		15.50		21.19					
60•	0.86		1.71		3.35		6.45		9.33		14.51		16.84		23.04					
64	0.93		1.83		3.60		6.93		10.02		15.58		18.10		24.75					
66•	0.96		1.90		3.73		7.18		10.38		16.15		18.75							
70	1.02		2.03		3.98		7.66		11.09		17.24		20.03							
72•	1.05		2.09		4.09		7.88		11.40								STEEL			
80		0.57		1.13		2.22		4.27		6.18		9.61		11.16			CAST			
84•		0.60		1.20		2.35		4.52		6.53		10.16		11.80						
88		0.63		1.26		2.46		4.74		6.86		10.67		12.39						
90		0.65		1.29		2.52		4.86		7.03		10.94								
96•		0.70		1.38		2.71		5.22		7.55		11.75								
100		0.73		1.44		2.83		5.45		7.89		12.27								
108•		0.79		1.57		3.07		5.91		8.55		13.31								
110		0.81		1.60		3.13		6.04		8.73		13.58								
112		0.82		1.63		3.19		6.15		8.89										
120•		0.89		1.76		3.44		6.63		9.59										
144•		0.84		1.67		3.27		6.30		9.11										
160		1.20		2.38		4.67		9.00		13.01										
200		1.52		3.00		5.89		11.34		16.41										

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

16 Diametral Pitch — 20° Pressure Angle — ¾" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.04		0.07		0.14		0.27		0.40		0.63		0.73		1.02		1.28		1.69	
12•	0.04		0.08		0.17		0.32		0.47		0.74		0.87		1.21		1.51		2.00	
13•	0.05		0.10		0.19		0.38		0.55		0.87		1.01		1.41		1.76		2.33	
14•	0.06		0.11		0.22		0.42		0.62		0.98		1.14		1.59		1.98		2.63	
15•	0.06		0.12		0.24		0.48		0.69		1.10		1.28		1.79		2.22		2.95	
16•	0.07		0.14		0.27		0.52		0.76		1.19		1.40		1.94		2.42		3.21	
17•	0.07		0.15		0.29		0.56		0.82		1.30		1.52		2.12		2.63		3.49	
18•	0.08		0.16		0.31		0.61		0.89		1.40		1.64		2.28		2.84		3.77	
19	0.09		0.17		0.34		0.65		0.95		1.51		1.76		2.46		3.06		4.05	
20•	0.09		0.18		0.36		0.70		1.02		1.62		1.89		2.64		3.28		4.35	
21•	0.10		0.20		0.39		0.75		1.09		1.73		2.02		2.81		3.50		4.64	
22•	0.10		0.21		0.41		0.80		1.16		1.84		2.15		2.99		3.72		4.93	
24•	0.12		0.23		0.46		0.89		1.29		2.04		2.39		3.33		4.15		5.50	
25	0.12		0.24		0.48		0.93		1.36		2.15		2.51		3.50		4.36		5.78	
26•	0.13		0.26		0.50		0.98		1.43		2.26		2.64		3.69		4.59		6.08	
27	0.14		0.27		0.53		1.03		1.50		2.38		2.78		3.87		4.82		6.38	
28•	0.14		0.28		0.56		1.08		1.58		2.49		2.91		4.06		5.06		6.70	
30•	0.15		0.31		0.61		1.18		1.72		2.72		3.18		4.43		5.51		7.30	
32•	0.17		0.33		0.66		1.28		1.86		2.94		3.44		4.80		5.98		7.91	
33	0.17		0.35		0.68		1.33		1.94		3.06		3.58		4.99		6.21		8.23	
35	0.19		0.37		0.74		1.44		2.09		3.31		3.87		5.39		6.72		8.89	
36•	0.20		0.39		0.77		1.49		2.17		3.43		4.01		5.59		6.96		9.22	
40•	0.22		0.45		0.88		1.71		2.49		3.93		4.60		6.41		7.98		10.57	
42	0.24		0.47		0.93		1.81		2.64		4.17		4.88		6.80		8.47			
44	0.25		0.50		0.99		1.92		2.80		4.42		5.16		7.20		8.96			
45	0.26		0.51		1.01		1.97		2.87		4.54		5.31		7.40		9.21			
48•	0.28		0.56		1.10		2.14		3.12		4.93		5.76		8.03		10.00			
50	0.29		0.58		1.15		2.24		3.26		5.16		6.03		8.41		10.47			
52	0.31		0.61		1.21		2.34		3.42		5.40		6.32		8.81		10.96			
54	0.32		0.64		1.26		2.45		3.58		5.65		6.61		9.21		11.47			
55	0.33		0.65		1.29		2.50		3.64		5.76		6.73		9.38		11.68			
56•	0.34		0.67		1.31		2.55		3.72		5.88		6.87		9.58					
60•	0.36		0.72		1.43		2.77		4.04		6.39		7.47		10.41					
64•	0.39		0.78		1.53		2.98		4.34		6.86		8.02		11.18					
66	0.41		0.81		1.59		3.08		4.50		7.11		8.31		11.58					
70	0.43		0.86		1.70		3.29		4.81		7.59		8.88		12.37					
72•	0.45		0.88		1.74		3.39		4.94		7.81		9.13		12.73					
80•	0.50		1.00		1.97		3.83		5.58		8.82		10.31		14.37					
84•	0.53		1.06		2.08		4.05		5.90		9.32		10.90		15.19					
88•	0.56		1.11		2.19		4.25		6.20		9.79		11.45							
90	0.57		1.14		2.24		4.35		6.35		10.03		11.73							
96•	0.62		1.22		2.41		4.68		6.82		10.78		12.60							
100	0.64		1.27		2.51		4.88		7.12		11.25		13.16				STEEL			
108		0.33		0.66		1.31		2.54		3.71		5.86		6.85			CAST			
110		0.34		0.68		1.34		2.60		3.79		5.98		6.99						
112•		0.35		0.69		1.36		2.64		3.85		6.09		7.12						
120		0.37		0.74		1.47		2.85		4.16		6.57		7.68						
144•		0.36		0.71		1.39		2.71		3.95		6.24								
160•		0.51		1.01		1.99		3.87		5.64		8.91								
200		0.64		1.27		2.51		4.88		7.11		11.24								

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

20 Diametral Pitch — 20° Pressure Angle — ½" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.02		0.03		0.06		0.12		0.17		0.28		0.32		0.46		0.57		0.78	
12•	0.02		0.04		0.07		0.14		0.20		0.33		0.38		0.54		0.68		0.92	
13	0.02		0.04		0.08		0.16		0.24		0.38		0.45		0.63		0.79		1.07	
14•	0.02		0.05		0.09		0.18		0.27		0.43		0.50		0.71		0.89		1.20	
15•	0.03		0.05		0.11		0.21		0.30		0.48		0.56		0.80		1.00		1.35	
16•	0.03		0.06		0.11		0.22		0.33		0.52		0.61		0.87		1.09		1.47	
17	0.03		0.06		0.12		0.24		0.36		0.57		0.67		0.94		1.19		1.60	
18•	0.03		0.07		0.13		0.26		0.38		0.61		0.72		1.02		1.28		1.73	
19	0.04		0.07		0.14		0.28		0.41		0.66		0.78		1.10		1.38		1.86	
20•	0.04		0.08		0.16		0.30		0.44		0.71		0.83		1.18		1.48		2.00	
21•	0.04		0.08		0.17		0.32		0.47		0.76		0.89		1.25		1.58		2.13	
22•	0.04		0.09		0.18		0.34		0.50		0.80		0.94		1.33		1.68		2.26	
24•	0.05		0.10		0.20		0.38		0.56		0.90		1.05		1.49		1.87		2.52	
25•	0.05		0.10		0.21		0.40		0.59		0.94		1.11		1.56		1.96		2.65	
26	0.06		0.11		0.22		0.42		0.62		0.99		1.16		1.64		2.07		2.79	
27	0.06		0.12		0.23		0.44		0.65		1.04		1.22		1.73		2.17		2.93	
28•	0.06		0.12		0.24		0.47		0.68		1.09		1.28		1.81		2.28		3.07	
30•	0.07		0.13		0.26		0.51		0.75		1.19		1.40		1.97		2.48		3.35	
32•	0.07		0.14		0.28		0.55		0.81		1.29		1.52		2.14		2.69		3.63	
33	0.07		0.15		0.29		0.57		0.84		1.34		1.58		2.22		2.80		3.78	
35•	0.08		0.16		0.32		0.62		0.91		1.45		1.70		2.40		3.03		4.08	
36•	0.08		0.17		0.33		0.64		0.94		1.50		1.77		2.49		3.14		4.23	
40•	0.10		0.19		0.38		0.74		1.08		1.72		2.02		2.86		3.60		4.85	
42	0.10		0.20		0.40		0.78		1.15		1.83		2.15		3.03		3.81		5.15	
44	0.11		0.21		0.42		0.83		1.21		1.93		2.27		3.21		4.04		5.45	
45•	0.11		0.22		0.44		0.85		1.25		1.99		2.34		3.30		4.15		5.60	
48	0.12		0.24		0.47		0.92		1.35		2.16		2.54		3.58		4.50		6.08	
50•	0.13		0.25		0.49		0.97		1.42		2.26		2.65		3.75		4.71		6.36	
52	0.13		0.26		0.52		1.01		1.48		2.37		2.78		3.92		4.94		6.66	
54	0.14		0.27		0.54		1.06		1.55		2.48		2.91		4.10		5.17			
55	0.14		0.28		0.55		1.08		1.58		2.52		2.96		4.18		5.26			
56	0.14		0.28		0.56		1.10		1.61		2.57		3.02		4.27		5.37			
60•	0.16		0.31		0.61		1.20		1.75		2.80		3.29		4.64		5.84			
64	0.17		0.33		0.66		1.28		1.88		3.01		3.53		4.98		6.27			
66	0.17		0.34		0.68		1.33		1.95		3.11		3.66		5.16		6.50			
70•	0.19		0.37		0.73		1.42		2.08		3.33		3.91		5.51		6.94			
72•	0.19		0.38		0.75		1.46		2.14		3.42		4.02		5.67		7.14			
80•	0.22		0.43		0.85		1.65		2.42		3.86		4.54		6.40					
84•	0.23		0.45		0.89		1.75		2.56		4.08		4.80		6.77					
88	0.24		0.47		0.94		1.83		2.69		4.29		5.04		7.11					
90•	0.24		0.49		0.96		1.88		2.76		4.40		5.16		7.29					
96•	0.26		0.52		1.03		2.02		2.96		4.72		5.55		7.83					
100•	0.27		0.55		1.08		2.11		3.09		4.93		5.79		8.17			ALL		
108	0.30		0.59		1.17		2.29		3.35		5.35		6.28					STEEL		
110	0.30		0.60		1.19		2.33		3.42		5.46		6.41							
112	0.31		0.62		1.22		2.38		3.48		5.56		6.53							
120•	0.33		0.66		1.31		2.56		3.76		5.99		7.04							
144	0.32		0.63		1.25		2.43		3.57		5.69		6.69							
160	0.45		0.90		1.78		3.48		5.10		8.13		9.56							
200	0.57		1.14		2.24		4.38		6.43		10.26		12.05							

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

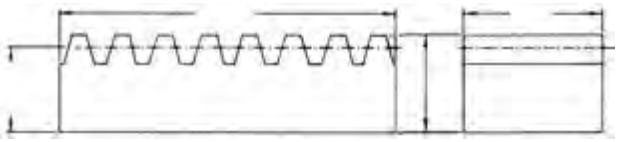
Machined Gear Rack

Standard Face Width
Steel — 14½° & 20° Pressure Angle

Catalog Number		Pitch	Face Width (Inches)	Overall Thickness (Inches)	Pitch Line Backing	App. Weight Lbs./Pc
14½° P.A.	20° P.A.					
R3x2	TR3x2	3	3	1½	1.167	24.00
R3x4	TR3x4	3	3	1½	1.167	48.00
R3x6	TR3x6	3	3	1½	1.167	72.00
R4x2	TR4x2	4	2	1½	1.250	17.40
R4x4	TR4x4	4	2	1½	1.250	34.80
R4x6	TR4x6	4	2	1½	1.250	52.20
RA4x2		4	2	2	1.750	23.60
RA4x4		4	2	2	1.750	47.20
RA4x6		4	2	2	1.750	70.80
R5x2	TR5x2	5	1¾	1¼	1.050	12.80
R5x4	TR5x4	5	1¾	1¼	1.050	25.60
R5x6	TR5x6	5	1¾	1¼	1.050	38.40
RA5x2		5	1¾	1½	1.300	16.00
RA5x4		5	1¾	1½	1.300	32.00
RA5x6		5	1¾	1½	1.300	48.00
R6x2		6	1½	1	0.833	8.60
R6x4		6	1½	1	0.833	17.20
R6x6		6	1½	1	0.833	25.80
RA6x2	TR6x2	6	1½	1½	1.333	13.80
RA6x4	TR6x4	6	1½	1½	1.333	27.60
RA6x6	TR6x6	6	1½	1½	1.333	41.40
R8x2		8	1¼	¾	0.625	5.20
R8x4		8	1¼	¾	0.625	10.40
R8x6		8	1¼	¾	0.625	15.60
RA8x2	TR8x2	8	1¼	1¼	1.125	9.80
RA8x4	TR8x4	8	1¼	1¼	1.125	19.60
RA8x6	TR8x6	8	1¼	1¼	1.125	29.40
R10x2		10	1	⅝	0.525	3.60
R10x4		10	1	⅝	0.525	7.20
R10x6		10	1	⅝	0.525	10.80
RA10x2	TR10x2	10	1	1	0.900	6.00
RA10x4	TR10x4	10	1	1	0.900	12.00
RA10x6	TR10x6	10	1	1	0.900	18.00
R12x2		12	¾	½	0.417	2.00
R12x4		12	¾	½	0.417	4.00
R12x6		12	¾	½	0.417	6.00
RA12x2	TR12x2	12	¾	¾	0.667	3.40
RA12x4	TR12x4	12	¾	¾	0.667	6.80
RA12x6	TR12x6	12	¾	¾	0.667	10.20
R16x2		16	5/16	5/16	0.250	0.50
R16x4		16	5/16	5/16	0.250	1.00
R16x6		16	5/16	5/16	0.250	1.50
RA16x2	TR16x2	16	½	½	0.438	1.52
RA16x4	TR16x4	16	½	½	0.438	3.04
RA16x6	TR16x6	16	½	½	0.438	4.56
R20x2	TR20x2	20	⅜	⅜	0.325	0.84
R20x4	TR20x4	20	⅜	⅜	0.325	1.68
R20x6	TR20x6	20	⅜	⅜	0.325	2.52
R24x2		24	¼	¼	0.208	0.38
R24x4		24	¼	¼	0.208	0.76
R24x6		24	¼	¼	0.208	1.14

Martin Rack is made from low carbon cold drawn steel. It is available in 14½° and 20° pressure angle in 2, 4, and 6 foot lengths. Allowance is made for cutting and machining. Pinions to run with the rack may be selected from the Spur Gear section of the catalog. Special rack can be supplied in other materials, sizes, and pitches.



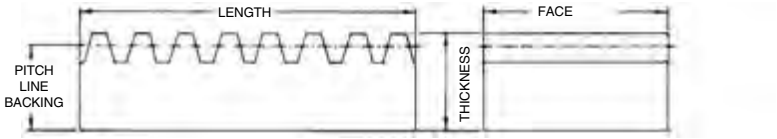


Rack in lengths up to 12' Available on Request

Machined Gear Rack

Martin Rack is made from low carbon cold drawn steel. It is available in 14½° and 20° pressure angle in 2, 4, and 6 foot lengths. Allowance is made for cutting and machining. Pinions to run with the rack may be selected from the Spur Gear section of the catalog. Special rack can be supplied in other materials, sizes, and pitches.





Wide Face Width
Steel — 20° Pressure Angle

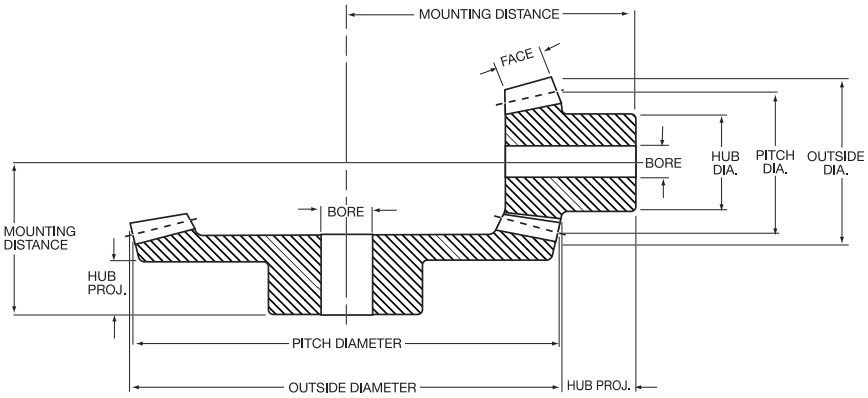
Catalog Number	Pitch	Face Width (Inches)	Overall Thickness (Inches)	Pitch Line Backing	App. Weight Lbs./Pc
R204x2	4	3½	2	1.750	41.0
R204x4	4	3½	2	1.750	82.0
R204x6	4	3½	2	1.750	123.0
R205x2	5	2½	1½	1.300	22.4
R205x4	5	2½	1½	1.300	44.8
R205x6	5	2½	1½	1.300	67.2
R206x2	6	2	1½	1.333	17.0
R206x4	6	2	1½	1.333	34.0
R206x6	6	2	1½	1.333	51.0
R208x2	8	1½	1½	1.375	13.8
R208x4	8	1½	1½	1.375	27.6
R208x6	8	1½	1½	1.375	41.3
R2010x2	10	1¼	1¼	1.150	9.0
R2010x4	10	1¼	1¼	1.150	18.0
R2010x6	10	1¼	1¼	1.150	27.0
R2012x2	12	1	1	0.917	6.4
R2012x4	12	1	1	0.917	12.8
R2012x6	12	1	1	0.917	19.2
R2016x2	16	¾	¾	0.688	3.4
R2016x4	16	¾	¾	0.688	6.8
R2016x6	16	¾	¾	0.688	10.2
R2020x2	20	½	½	0.450	0.8
R2020x4	20	½	½	0.450	1.6
R2020x6	20	½	½	0.450	2.5

Martin Stocks 14½° Spur Gears & 20° Spur Gears

Rack in lengths up to 12' Available on Request

Bevel Gears
20° Pressure Angle





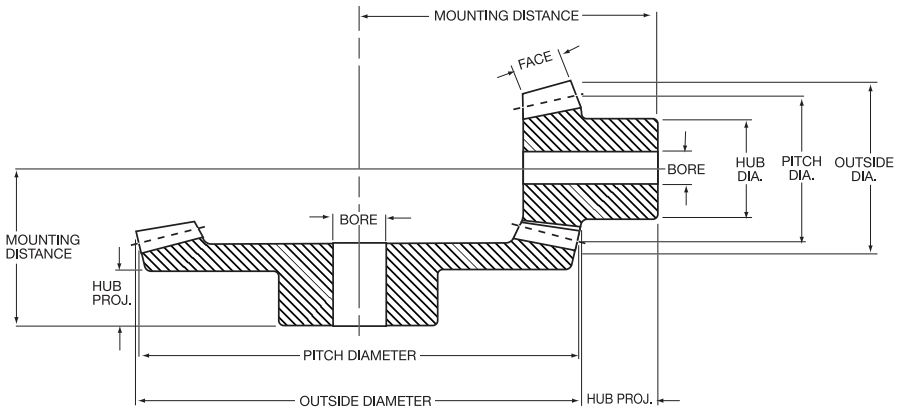
Bevel Gears are used as right angle drives where high efficiency is required. They are carried in stock as 1:1 to 6:1 ratios. Bevel Gears are cut with the long and short addendum system and 20 degree pressure angle to compensate for tooth undercut in gears and pinions having low numbers of teeth. Most all of Martin Bevel Gears are cut with the Coniflex tooth form to allow for a slight misalignment at assembly and during operation. Gears should be mounted at the correct distance from the core of apex center with thrust bearings being used in back of hubs to absorb the backward thrust created in this type of gearing.

Cast Iron Gears With Steel Pinions

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
3 Pitch										
30	B330-2	10.00	10.19	1.87	1¼	3 19/32	5½	5	2	32.8
15	B315-2	5.00	5.80	1.87	1⅛	4 1/32	7¼	3¾	1 15/16	13.4
4 Pitch										
32	B432-2	8.00	8.10	1.40	1⅛	2 1/16	4¼	3¾	1 9/16	14.7
16	B416-2	4.00	4.60	1.40	1⅛	3 1/32	6	3¼	1 13/16	7.5
42	B442-3	10.50	10.59	1.42	1⅛	2 1/16	4	3¾	1½	20.5
14	B414-3	3.50	4.17	1.42	1⅛	3 27/64	7¼	3¼	1 15/16	6.8
56	B456-4	14.00	14.07	1.69	1¼	2⅞	4¼	4¼	1⅝	37.8
14	B414-4	3.50	4.20	1.69	1⅛	3 45/64	9	3¼	1 15/16	7.6
5 Pitch										
30	B530-2	6.00	6.12	1.04	1⅛	2¼	3½	3¼	1⅜	8.6
15	B515-2	3.00	3.48	1.04	1	2 25/64	4⅜	2⅝	1 9/32	3.1
45	B545-3	9.00	9.07	1.31	1¼	2½	3¾	3¾	1 1/16	14.6
15	B515-3	3.00	3.54	1.31	1	2 1/16	5⅞	2⅝	1 5/16	3.6
60	B560-4	12.00	12.05	1.70	1¼	2⅝	3¾	4	1 9/16	23.2
15	B515-4	3.00	3.56	1.70	1	3 13/64	7½	3	1½	5.0
6 Pitch										
36	BS636-2	6.00	6.10	1.06	1⅛	2¼	3½	3¼	1½	7.5
18	B618-2	3.00	3.42	1.06	1	2 49/64	4¾	2½	1⅜	3.3
42	B642-2	7.00	7.10	1.05	1⅛	2 13/64	3¾	3½	1½	9.5
21	B621-2	3.50	3.90	1.05	1	2 33/64	5	2½	1¼	3.8
45	B645-3	7.50	7.56	1.07	1⅛	2⅛	3	3¼	1¼	8.9
15	B615-3	2.50	2.94	1.07	⅞	2 9/16	5¼	2⅛	1 7/16	2.2
48	B648-2	8.00	8.10	1.17	1⅛	1 57/64	3 7/16	3¼	1	11.6
24	B624-2	4.00	4.40	1.17	1	2 35/64	5 7/16	2⅝	1¼	4.9
60	B660-4	10.00	10.04	1.21	1⅛	2¼	3¼	3¼	1⅜	14.3
15	B615-4	2.50	2.97	1.21	1	2 31/32	6¾	2½	1¾	3.2

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.

Bevel Gears
20° Pressure Angle



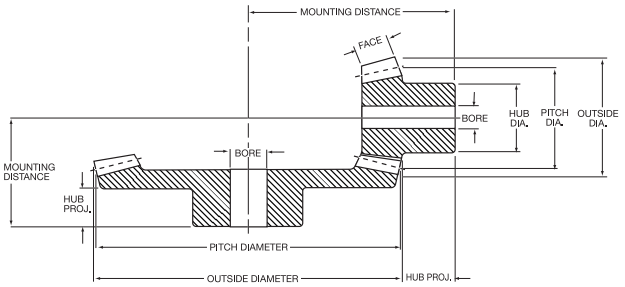
Cast Iron Gears With Steel Pinions

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
8 Pitch										
40	BS840-2	5.00	5.07	0.82	1	1 27/32	2 7/8	3	1 1/4	4.9
20	B820-2	2.50	2.80	0.82	7/8	2 9/32	4	2 1/8	1 13/32	1.9
48	B848-3	6.05	6.20	0.84	7/8	1 5/8	2 3/8	2 3/4	1	4.5
16	B816-3	2.00	2.33	0.84	3/4	2 5/64	4 1/4	1 3/4	1 3/16	1.2
64	B864-4	8.00	8.03	0.84	1	1 7/8	2 3/4	2 3/4	1 1/4	9.0
16	B816-4	2.00	2.35	0.84	7/8	2 3/32	5 1/4	1 7/8	1 7/32	1.3
72	B872-4	9.00	9.03	1.22	1 1/8	2 5/16	3 1/4	3	1 11/16	12.2
18	B818-4	2.25	2.60	1.22	7/8	2 15/32	5 3/4	2 1/8	1 7/32	1.9
10 Pitch										
60	B1060-3	6.00	6.04	0.78	7/8	1 29/32	2 3/4	3	1 3/8	5.1
20	B1020-3	2.00	2.27	0.78	3/4	2 5/32	4 3/8	1 3/4	1 5/16	1.3
60	B1060-4	6.00	6.03	0.72	7/8	1 5/8	2 1/4	2 1/2	1 1/8	4.5
15	B1015-4	1.50	1.78	0.72	5/8	1 39/64	3 7/8	1 7/16	27/32	0.6
90	B1090-6	9.00	9.03	0.86	1	1 13/16	2 1/2	2 3/4	1 5/16	9.7
15	B1015-6	1.50	1.79	0.86	5/8	1 55/64	5 1/2	1 7/16	31/32	0.7
12 Pitch										
36	B1236-2	3.00	3.05	0.46	5/8	7/8	1 1/2	1 7/16	1/2	0.8
18	B1218-2	1.50	1.70	0.46	1/2	1 13/64	2 1/4	1 1/4	11/16	0.5
72	B1272-4	6.00	6.02	0.60	3/4	1 5/16	2	2	61/64	2.6
18	B1218-4	1.50	1.73	0.60	1/2	1 23/64	3 3/4	1 1/4	23/32	0.4
72	B1272-6	6.00	6.02	0.74	3/4	1 5/16	1 3/4	2	61/64	2.6
12	B1212-6	1.00	1.24	0.74	1/2	1 31/64	3 3/4	15/16	23/32	0.4

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.

Bevel Gears
20° Pressure Angle





Steel Gears With Steel Pinions

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
6 Pitch										
36	BS636-2	6.00	6.10	1.06	1⅛	2¼	3½	3¼	1½	8.70
18	BS618-2	3.00	3.42	1.06	1⅛	2⁴⁄₆₄	4¾	2½	1¹⁹⁄₃₂	3.20
8 Pitch										
40	BS840-2	5.00	5.07	0.82	1	1²⁷⁄₃₂	2⅞	3	1¼	4.90
20	BS820-2	2.50	2.80	0.82	1	2⁹⁄₃₂	4	2⅛	1¹³⁄₃₂	1.80
10 Pitch										
30	BS1030-15	3.00	3.08	0.57	¾	1⁷⁄₁₆	2¼	2½	1	2.00
20	BS1020-15	2.00	2.21	0.57	¾	1³³⁄₆₄	2½	1¾	²⁹⁄₃₂	0.80
40	BS1040-2	4.00	4.06	0.71	⅞	1¹¹⁄₁₆	2½	3	1³⁄₁₆	3.70
20	BS1020-2	2.00	2.24	0.71	¾	1⁵⁄₆₄	3⅛	1¾	1¹⁄₁₆	1.00
50	BS1050-2	5.00	5.06	0.70	¾	1¹⁹⁄₃₂	2⅝	2	1	4.00
25	B1025-2	2.50	2.74	0.70	¾	1³⁵⁄₆₄	3⅜	2	¾	1.50
60	BS1060-3	6.00	6.04	0.78	1	1⁵⁵⁄₆₄	2¾	3	1⅜	6.00
20	BS1020-3	2.00	2.27	0.78	⅞	2⁹⁄₃₂	4⅜	1¾	1⁵⁄₁₆	0.90
12 Pitch										
27	BS1227-15	2.25	2.32	0.41	½	1⅛	1¾	1½	²⁵⁄₃₂	0.60
18	BS1218-15	1.50	1.67	0.41	½	1⅛	1⅞	1¼	²¹⁄₃₂	0.30
36	BS1236-2	3.00	3.05	0.53	1	1¹⁷⁄₆₄	1⅞	2⅛	⅞	1.30
18	BS1218-2	1.50	1.70	0.53	¾	1⅜	2⅜	1⁵⁄₁₆	¹³⁄₁₆	0.30
36	BS1236-2A	3.00	3.05	0.53	⅝	1¹⁷⁄₆₄	1⅞	2⅛	⅞	1.40
18	BS1218-2A	1.50	1.70	0.53	½	1⅜	2⅜	1⁵⁄₁₆	¹³⁄₁₆	0.40
48	BS1248-2	4.00	4.05	0.59	⅝	1¹¹⁄₆₄	2	1⅝	¾	1.60
24	B1224-2	2.00	2.20	0.59	½	1⁷⁄₁₆	2⅞	1½	¾	0.80
54	BS1254-3	4.50	4.53	0.60	⅝	1⅛	1¾	1¾	¾	1.90
18	B1218-3	1.50	1.72	0.60	½	1¹⁄₃₂	3	1¼	¹¹⁄₁₆	0.40
14 Pitch										
28	BS1428-2	2.00	2.04	0.35	½	¹⁵⁄₁₆	1⅜	1⅝	²¹⁄₃₂	0.50
14	BS1414-2	1.00	1.17	0.35	½	³¹⁄₃₂	1⅝	¹³⁄₁₆	⁹⁄₁₆	0.10
16 Pitch										
24	BS1624-2	1.50	1.54	0.19	½	⅝	1	1	⁷⁄₁₆	0.15
12	BS1612-2	0.75	0.91	0.19	⅜	³⁷⁄₆₄	1⅛	²¹⁄₃₂	¹¹⁄₃₂	0.08
24	BS1624-15	1.50	1.55	0.25	½	¾	1³⁄₁₆	1⅛	⁹⁄₁₆	0.40
16	BS1616-15	1.00	1.13	0.25	⅜	⁴⁷⁄₆₄	1¼	¹³⁄₁₆	⁷⁄₁₆	0.09
32	BS1632-2	2.00	2.04	0.35	½	⁴⁹⁄₆₄	1³⁄₁₆	1⅛	½	0.30
16	BS1616-2	1.00	1.15	0.35	⅜	²⁷⁄₃₂	1½	¹³⁄₁₆	⁷⁄₁₆	0.04
48	BS1648-3	3.00	3.02	0.42	⅝	⅞	1⁵⁄₁₆	1½	⁹⁄₁₆	0.74
16	B1616-3	1.00	1.17	0.42	⁷⁄₁₆	⁵⁹⁄₆₄	2	⅞	¹⁵⁄₃₂	0.13
64	BS1664-4	4.00	4.02	0.48	⅝	⁵⁷⁄₆₄	1⅜	2¼	⁹⁄₁₆	1.70
16	B1616-4	1.00	1.17	0.48	½	⁶³⁄₆₄	2½	¹³⁄₁₆	¹⁵⁄₃₂	0.12

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.

Bevel Gears
Horsepower Ratings

Cast Iron

Catalog Number	Revolutions per Minute							
	50	100	200	300	600	900	1200	1800
B330-2	2.50	4.50	7.7	10.0	15.3			
B315-2	2.50	4.50	7.7	10.0	15.3			
B432-2	1.33	2.30	4.0	5.3	8.0	9.5		
B416-2	1.33	2.30	4.0	5.3	8.0	9.5		
B442-3	1.10	2.00	3.7	5.0	7.5	9.0		
B414-3	1.10	2.00	3.7	5.0	7.5	9.0		
B456-4	1.40	2.50	4.4	6.0	9.0	10.9		
B414-4	1.40	2.50	4.4	6.0	9.0	10.9		
B530-2	0.50	1.00	1.9	2.5	3.9	4.8	5.5	
B515-2	0.50	1.00	1.9	2.5	3.9	4.8	5.5	
B545-3	0.70	1.40	2.4	3.3	5.2	6.4	7.2	
B515-3	0.70	1.40	2.4	3.3	5.2	6.4	7.2	
B560-4	1.00	1.80	3.3	4.4	6.9	8.4	9.5	
B515-4	1.00	1.80	3.3	4.4	6.9	8.4	9.5	
B636-2	0.50	1.00	1.7	2.3	3.7	4.4	5.0	
B618-2	0.50	1.00	1.7	2.3	3.7	4.4	5.0	
B642-2	0.60	1.10	2.0	2.7	4.0	5.0		
B621-2	0.60	1.10	2.0	2.7	4.0	5.0		
B645-3	0.40	0.80	1.4	2.0	3.2	3.9	4.6	
B615-3	0.40	0.80	1.4	2.0	3.2	3.9	4.6	
B648-2	0.80	1.50	2.5	3.4	5.1	6.1		
B624-2	0.80	1.50	2.5	3.4	5.1	6.1		
B660-4	0.50	0.90	1.7	2.3	3.7	4.6	5.2	
B615-4	0.50	0.90	1.7	2.3	3.7	4.6	5.2	
B840-2	0.40	0.70	1.3	1.8	2.9	3.7	4.2	
B820-2	0.40	0.70	1.3	1.8	2.9	3.7	4.2	
B848-3	0.20	0.40	0.7	1.0	1.7	2.2	2.5	2.9
B816-3	0.20	0.40	0.7	1.0	1.7	2.2	2.5	2.9
B864-4	0.20	0.40	0.7	1.0	1.7	2.2	2.5	
B816-4	0.20	0.40	0.7	1.0	1.7	2.2	2.5	
B872-4	0.40	0.70	1.2	1.8	2.8	3.6	4.2	
B818-4	0.40	0.70	1.2	1.8	2.8	3.6	4.2	
B1060-3	0.17	0.30	0.6	0.8	1.3	1.7	1.9	2.3
B1020-3	0.17	0.30	0.6	0.8	1.3	1.7	1.9	2.3
B1060-4	0.10	0.20	0.4	0.5	0.9	1.2	1.4	1.8
B1015-4	0.10	0.20	0.4	0.5	0.9	1.2	1.4	1.8
B1090-6	0.14	0.25	0.5	0.7	1.2	1.7	1.9	2.3
B1015-6	0.14	0.25	0.5	0.7	1.2	1.7	1.9	2.3
B1236-2	0.05	0.11	0.2	0.3	0.5	0.6	0.8	1.0
B1218-2	0.05	0.11	0.2	0.3	0.5	0.6	0.8	1.0
B1254-3	0.07	0.15	0.3	0.4	0.7	0.9	1.0	1.3
B1218-3	0.07	0.15	0.3	0.4	0.7	0.9	1.0	1.3
B1272-4	0.07	0.15	0.3	0.4	0.7	0.9	1.1	1.4
B1218-4	0.07	0.15	0.3	0.4	0.7	0.9	1.1	1.4
B1272-6	0.06	0.11	0.2	0.3	0.6	0.8	1.0	1.2
B1212-6	0.06	0.11	0.2	0.3	0.6	0.8	1.0	1.2

Steel

Catalog Number	Revolutions per Minute							
	50	100	200	300	600	900	1200	1800
BS636-2	0.9	1.70	3.00	4.10	6.40	8.00	9.00	
BS618-2	0.9	1.70	3.00	4.10	6.40	8.00	9.00	
BS840-2	0.5	0.90	1.50	2.10	3.50	4.40	5.00	
BS820-2	0.5	0.90	1.50	2.10	3.50	4.40	5.00	
BS1030-15	0.2	0.40	0.70	1.00	1.70	2.10	2.30	2.9
BS1020-15	0.2	0.40	0.70	1.00	1.70	2.10	2.30	2.9
BS1040-2	0.25	0.50	0.90	1.30	2.10	2.70	3.00	3.7
BS1020-2	0.25	0.50	0.90	1.30	2.10	2.70	3.00	3.7
BS1050-2	0.33	0.64	1.20	1.60	2.50	3.20	3.70	
B 1025-2	0.33	0.64	1.20	1.60	2.50	3.20	3.70	
BS1060-3	0.3	0.50	1.00	1.40	2.40	3.00	3.50	4.3
BS1020-3	0.3	0.50	1.00	1.40	2.40	3.00	3.50	4.3
BS1227-15	0.09	0.17	0.33	0.50	0.80	1.00	1.20	1.6
BS1218-15	0.09	0.17	0.33	0.50	0.80	1.00	1.20	1.6
BS1236-2	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1218-2	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1236-2A	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1218-2A	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1248-2	0.18	0.37	0.70	0.90	1.60	2.00	2.30	2.8
B1224-2	0.18	0.37	0.70	0.90	1.60	2.00	2.30	2.8
BS1254-3	0.14	0.28	0.50	0.70	1.20	1.60	1.90	2.3
B1218-3	0.14	0.28	0.50	0.70	1.20	1.60	1.90	2.3
BS1428-2	0.05	0.08	0.16	0.20	0.40	0.54	0.70	0.8
BS1414-2	0.05	0.08	0.16	0.20	0.40	0.54	0.70	0.8
BS1624-2	0.02	0.03	0.05	0.08	0.14	0.20	0.25	0.3
BS1612-2	0.02	0.03	0.05	0.08	0.14	0.20	0.25	0.3
BS1624-15	0.03	0.05	0.09	0.14	0.25	0.33	0.40	0.5
BS1612-15	0.03	0.05	0.09	0.14	0.25	0.33	0.40	0.5
BS1632-2	0.03	0.08	0.14	0.20	0.37	0.50	0.60	0.8
BS1616-2	0.03	0.08	0.14	0.20	0.37	0.50	0.60	0.8
BS1648-3	0.05	0.09	0.17	0.25	0.50	0.60	0.80	1.0
BS1616-3	0.05	0.09	0.17	0.25	0.50	0.60	0.80	1.0
BS1664-4	0.05	0.10	0.20	0.33	0.50	0.70	0.90	1.1
BS1616-4	0.05	0.10	0.20	0.33	0.50	0.70	0.90	1.1

Miter Gears
20° Pressure Angle



Miter Gears are ordinarily used as right angle drives, transmitting horsepower between intersecting shafts at a 1:1 ratio. They are used where high efficiency is required. Only miters of the same number of teeth, pitch, and pressure angle can be operated together. More than two miters may be used in sets, as in a differential.

The thrust of Miter Gears causes the gears to separate; therefore, ball bearings or roller bearings should be used rather than sleeve bearings. Provisions should be made using thrust bearings to absorb backward thrust.

All standard stock Miter Gears must be mounted at right angles (90 degrees) for proper tooth bearing.

All Martin Miter and Bevel Gears are generated with the Coniflex tooth form. A slight misalignment of gears is permissible because of the localized tooth bearing running lengthwise along the gear tooth.

The mounting distance must be held in order to maintain proper backlash between gears. This will also insure that the ends of the gear teeth will be flush with each other. The use of a straight mineral oil as a lubricant is recommended for most Miter Gear applications.

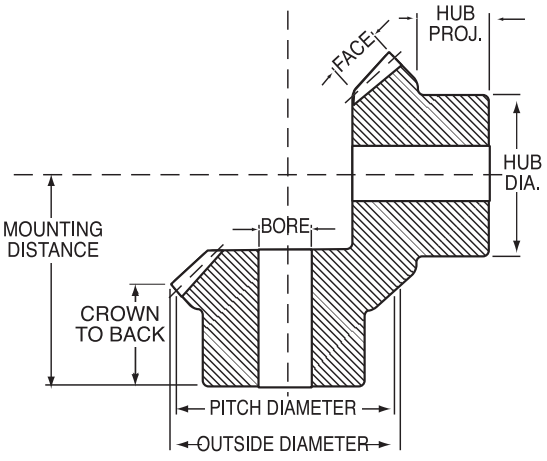
Martin Stock Miter Gears are manufactured from .40 carbon steel.

The “M” Series is furnished unhardened with plain bore.
The “HM” Series is furnished hardened teeth with plain bore.
The “HMK” Series is furnished hardened teeth with keyway and setscrew for installation on the shaft.

Hardened Miter Gears have approximately 50% more horsepower capacity and provide greater gear wear than untreated gears.

All Martin Miter Gears are cut with the 20° pressure angle system. They will not operate with any other pressure angle system.

Miter Gears
20° Pressure Angle

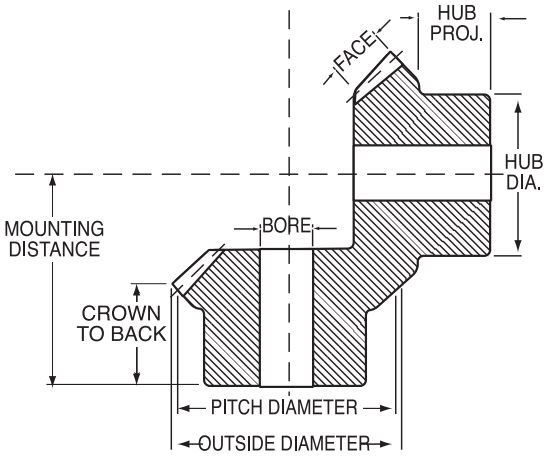




Steel - Plain Bore — Unhardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
4 Pitch										
24	M424	6.00	6.36	1.33	1½	3 9/16	5½	4	1 15/16	14.4
24	M424A	6.00	6.36	1.33	1¾	3 9/16	5½	4	1 15/16	13.7
28	M428	7.00	7.36	1.43	2	3⅜	6	5	1 15/16	21.1
5 Pitch										
25	M525	5.00	5.29	1.10	1⅜	3	4⅝	3½	1¾	8.5
25	M525A	5.00	5.29	1.10	1½	3	4⅝	3½	1¾	8.3
25	M525B	5.00	5.29	1.10	1¾	3	4⅝	3½	1¾	7.8
6 Pitch										
24	M624	4.00	4.24	0.86	1¼	2 5/16	3⅝	3	1 5/16	4.4
24	M624A	4.00	4.24	0.86	1½	2 5/16	3⅝	3	1 5/16	4.3
27	M627	4.50	4.74	0.96	1¼	2⅝	4⅛	3¼	1½	6.3
27	M627A	4.50	4.74	0.96	1½	2⅝	4⅛	3¼	1½	5.9
8 Pitch										
24	M824	3.00	3.18	0.64	¾	1 37/64	2 9/16	1¾	13/16	1.5
24	M824A	3.00	3.18	0.64	1	1 49/64	2¾	2½	1	2.1
24	M824B	3.00	3.18	0.64	1¼	1 49/64	2¾	2½	1	1.9
28	M828	3.50	3.68	0.75	1	2 3/32	3¼	2½	1¼	2.9
28	M828A	3.50	3.68	0.75	1 3/16	2 3/32	3¼	2½	1¼	2.8
28	M828B	3.50	3.68	0.75	1¼	2 3/32	3¼	2½	1¼	2.6
32	M832	4.00	4.18	0.84	1	2 3/32	3⅝	3	1⅛	4.8
10 Pitch										
20	M1020A	2.00	2.14	0.44	½	1 23/64	2	1⅝	13/16	0.75
20	M1020B	2.00	2.14	0.44	⅝	1 23/64	2	1⅝	13/16	0.72
20	M1020	2.00	2.14	0.44	¾	1 23/64	2	1⅝	13/16	0.67
20	M1020C	2.00	2.14	0.44	⅞	1 23/64	2	1⅝	13/16	0.58
25	M1025	2.50	2.64	0.55	¾	1⅝	2 7/16	2	15/16	1.20
25	M1025A	2.50	2.64	0.55	⅞	1⅝	2 7/16	2	15/16	1.20
25	M1025B	2.50	2.64	0.55	1	1⅝	2 7/16	2	15/16	1.20
30	M1030	3.00	3.14	0.64	¾	1¾	2¾	2	1	1.80

Miter Gears
20° Pressure Angle



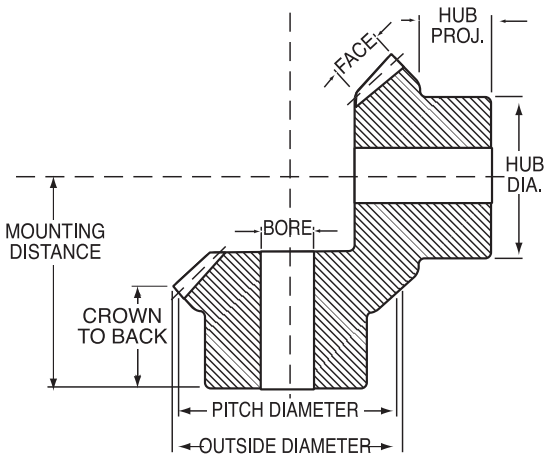


Steel - Plain Bore — Unhardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
12 Pitch										
15	M1215	1.25	1.37	0.27	3/8	55/64	1 1/4	1	1/2	0.17
15	M1215A	1.25	1.37	0.27	7/16	55/64	1 1/4	1	1/2	0.16
15	M1215B	1.25	1.37	0.27	1/2	55/64	1 1/4	1	1/2	0.15
18	M1218	1.50	1.62	0.32	1/2	1 1/64	1 1/2	1 1/4	5/8	0.30
18	M1218A	1.50	1.62	0.32	5/8	1 1/64	1 1/2	1 1/4	5/8	0.25
18	M1218B	1.50	1.62	0.32	3/4	1 1/64	1 1/2	1 1/4	5/8	0.22
21	M1221	1.75	1.87	0.39	1/2	1 3/16	1 3/4	1 3/8	11/16	0.45
21	M1221A	1.75	1.87	0.39	9/16	1 3/16	1 3/4	1 3/8	11/16	0.45
21	M1221B	1.75	1.87	0.39	5/8	1 3/16	1 3/4	1 3/8	11/16	0.43
21	M1221C	1.75	1.87	0.39	3/4	1 3/16	1 3/4	1 3/8	11/16	0.38
24	M1224	2.00	2.12	0.43	1/2	1 7/32	1 7/8	1 1/2	11/16	0.62
30	M1230	2.50	2.62	0.54	5/8	1 31/64	2 5/16	1 3/4	27/32	1.10
14 Pitch										
14	M1414	1.00	1.11	0.19	3/8	47/64	1 1/16	7/8	1/2	0.10
14	M1414A	1.00	1.11	0.19	7/16	47/64	1 1/16	7/8	1/2	0.09
16 Pitch										
12	M1612	0.75	0.84	0.16	5/16	37/64	13/16	5/8	3/8	0.05
16	M1616	1.00	1.09	0.22	3/8	3/4	1 1/16	3/4	7/16	0.07
20	M1620	1.25	1.34	0.27	7/16	27/32	1 1/4	1	1/2	0.16
24	M1624	1.50	1.59	0.31	1/2	7/8	1 3/8	1	1/2	0.20
20 Pitch										
20	M2020	1.00	1.07	0.23	3/8	13/16	1 1/8	3/4	1/2	0.06
25	M2025	1.25	1.32	0.25	3/8	3/4	1 3/16	1	3/8	0.14
24 Pitch										
24	M2424	1.00	1.06	0.20	1/4	9/16	29/32	5/8	9/32	0.12

Miter Gears
20° Pressure Angle

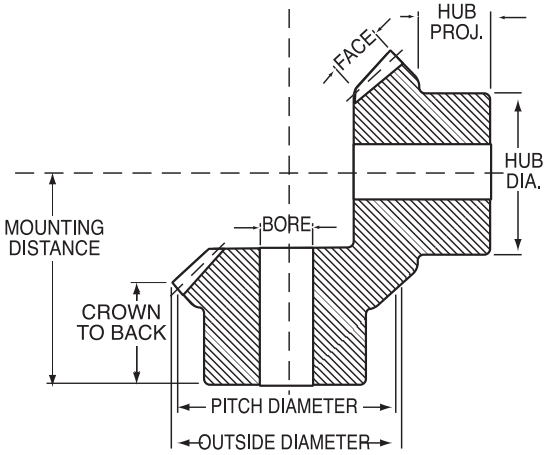




Steel - Plain Bore — Hardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
4 Pitch										
24	HM424	6.00	6.36	1.33	1½	3 3/16	5½	4	1 15/16	14.4
24	HM424A	6.00	6.36	1.33	1¾	3 3/16	5½	4	1 15/16	13.7
28	HM428	7.00	7.36	1.43	2	3⅝	6	5	1 15/16	21.1
5 Pitch										
25	HM525	5.00	5.29	1.10	1⅜	3	4⅝	3½	1¾	8.5
25	HM525A	5.00	5.29	1.10	1½	3	4⅝	3½	1¾	8.3
25	HM525B	5.00	5.29	1.10	1¾	3	4⅝	3½	1¾	7.5
6 Pitch										
24	HM624	4.00	4.24	0.86	1¼	2 5/16	3⅝	3	1 5/16	4.4
24	HM624A	4.00	4.24	0.86	1½	2 5/16	3⅝	3	1 5/16	4.0
27	HM627	4.50	4.74	0.96	1¼	2⅝	4⅛	3¼	1½	6.3
27	HM627A	4.50	4.74	0.96	1½	2⅝	4⅛	3¼	1½	5.9
8 Pitch										
24	HM824	3.00	3.18	0.64	¾	1 3/64	2 3/16	1¾	13/16	1.5
24	HM824A	3.00	3.18	0.64	1	1 49/64	2¾	2½	1	2.1
24	HM824B	3.00	3.18	0.64	1¼	1 49/64	2¾	2½	1	2.6
28	HM828	3.50	3.68	0.75	1	2 3/32	3¼	2½	1¼	3.0
28	HM828A	3.50	3.68	0.75	1 3/16	2 3/32	3¼	2½	1¼	2.8
28	HM828B	3.50	3.68	0.75	1¼	2 3/32	3¼	2½	1¼	2.6
32	HM832	4.00	4.18	0.85	1	2 3/32	3⅝	3	1⅛	4.7
10 Pitch										
20	HM1020A	2.00	2.14	0.44	½	1 23/64	2	1⅝	13/16	0.76
20	HM1020B	2.00	2.14	0.44	5/8	1 23/64	2	1⅝	13/16	0.70
20	HM1020	2.00	2.14	0.44	¾	1 23/64	2	1⅝	13/16	0.64
20	HM1020C	2.00	2.14	0.44	⅞	1 23/64	2	1⅝	13/16	0.58
25	HM1025	2.50	2.64	0.55	¾	1⅝	2 7/16	2	15/16	1.30
25	HM1025A	2.50	2.64	0.55	⅞	1⅝	2 7/16	2	15/16	1.20
25	HM1025B	2.50	2.64	0.55	1	1⅝	2 7/16	2	15/16	1.20
30	HM1030	3.00	3.14	0.64	¾	1¾	2¾	2	1	1.80

Miter Gears
20° Pressure Angle



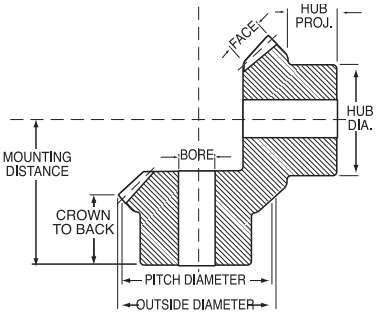


Steel - Plain Bore — Hardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
12 Pitch										
15	HM1215	1.25	1.37	0.27	3/8	55/64	1 1/4	1	1/2	0.15
15	HM1215B	1.25	1.37	0.27	1/2	55/64	1 1/4	1	1/2	0.15
18	HM1218	1.50	1.62	0.32	1/2	1 1/64	1 1/2	1 1/4	5/8	0.30
18	HM1218A	1.50	1.62	0.32	5/8	1 1/64	1 1/2	1 1/4	5/8	0.25
18	HM1218B	1.50	1.62	0.32	3/4	1 1/64	1 1/2	1 1/4	5/8	0.22
21	HM1221	1.75	1.87	0.39	1/2	1 3/16	1 3/4	1 3/8	11/16	0.22
21	HM1221B	1.75	1.87	0.39	5/8	1 3/16	1 3/4	1 3/8	11/16	0.42
24	HM1224	2.00	2.12	0.43	1/2	1 7/32	1 7/8	1 1/2	11/16	0.62
30	HM1230	2.50	2.62	0.54	5/8	1 31/64	2 5/16	1 3/4	27/32	1.10
14 Pitch										
14	HM1414	1.00	1.11	0.19	3/8	47/64	1 1/16	7/8	1/2	0.10
14	HM1414A	1.00	1.11	0.19	7/16	47/64	1 1/16	7/8	1/2	0.10
16 Pitch										
16	HM1616	1.00	1.09	0.22	3/8	3/4	1 1/16	3/4	7/16	0.07
24	HM1624	1.50	1.59	0.31	1/2	7/8	1 3/8	1	1/2	0.20
24 Pitch										
24	HM2424	1.00	1.06	0.20	1/4	9/16	29/32	5/8	9/32	0.06

Miter Gears
20° Pressure Angle





Steel - Furnished With Keyway and Set Screw — Hardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	
4 Pitch										
24	HMK424A	6.00	6.36	1.33	1¾	3 9/16	5½	4	1 15/16	13.7
28	HMK428	7.00	7.36	1.43	2	3⅝	6	5	1 15/16	20.4
5 Pitch										
25	HMK525	5.00	5.29	1.10	1⅜	3	4⅝	3½	1¾	8.5
25	HMK525B	5.00	5.29	1.10	1¾	3	4⅝	3½	1¾	7.5
6 Pitch										
24	HMK624	4.00	4.24	0.86	1¼	2 5/16	3⅝	3	1 5/16	4.4
24	HMK624A	4.00	4.24	0.86	1½	2 5/16	3⅝	3	1 5/16	4.0
27	HMK627	4.50	4.74	0.96	1¼	2⅝	4⅛	3¼	1½	6.3
27	HMK627A	4.50	4.74	0.96	1½	2⅝	4⅛	3¼	1½	5.9
8 Pitch										
24	HMK824	3.00	3.18	0.64	¾	1 37/64	2 9/16	1¾	13/16	1.5
24	HMK824A	3.00	3.18	0.64	1	1 49/64	2¾	2½	1	2.1
24	HMK824B	3.00	3.18	0.64	1¼	1 49/64	2¾	2½	1	1.8
28	HMK828	3.50	3.68	0.75	1	2 3/32	3¼	2½	1¼	2.9
28	HMK828A	3.50	3.68	0.75	1 3/16	2 3/32	3¼	2½	1¼	2.7
28	HMK828B	3.50	3.68	0.75	1¼	2 3/32	3¼	2½	1¼	2.6
10 Pitch										
20	HMK1020A	2.00	2.14	0.44	½	1 23/64	2	1⅝	13/16	0.74
20	HMK1020B	2.00	2.14	0.44	⅝	1 23/64	2	1⅝	13/16	0.70
20	HMK1020	2.00	2.14	0.44	¾	1 23/64	2	1⅝	13/16	0.63
20	HMK1020C	2.00	2.14	0.44	⅞	1 23/64	2	1⅝	13/16	0.58
25	HMK1025	2.50	2.64	0.55	¾	1⅝	2 7/16	2	15/16	1.30
25	HMK1025A	2.50	2.64	0.55	⅞	1⅝	2 7/16	2	15/16	1.20
25	HMK1025B	2.50	2.64	0.55	1	1⅝	2 7/16	2	15/16	1.10
12 Pitch										
15	HMK1215B	1.25	1.37	0.27	½	55/64	1¼	1	½	0.14
18	HMK1218A	1.50	1.62	0.32	⅝	1 1/64	1½	1¼	⅝	0.25
21	HMK1221B	1.75	1.87	0.39	⅝	1 3/16	1¾	1⅜	1 1/16	0.41
30	HMK1230	2.50	2.62	0.54	⅝	1 3/64	2 5/16	1¾	27/32	1.10
16 Pitch										
16	HMK1616	1.00	1.09	0.22	⅜	¾	1 1/16	¾	7/16	0.07
24	HMK1624	1.50	1.59	0.31	½	⅞	1⅜	1	½	0.20

Miter Gear Horsepower Ratings

Steel

Catalog Number	Revolutions Per Minute									
	10	25	50	100	200	300	600	900	1200	1800
M424	0.80	1.90	3.60	6.40	10.60	13.5	18.8	21.5	23.0	
HM424	1.40	3.33	6.30	11.20	18.60	23.6	33.0	38.0	40.0	
M428	1.07	2.50	4.80	8.40	13.60	17.2	23.3	26.5	28.5	
HM428	1.90	4.50	8.40	14.70	23.80	30.0	40.0	46.0	50.0	
M525	0.45	1.05	2.00	3.70	6.30	8.1	11.6	13.6	15.0	
HM525	0.75	1.90	3.60	6.50	11.00	14.2	20.0	24.0	26.0	
M624	0.25	0.55	1.10	2.00	3.50	4.6	6.9	8.2	19.0	10.2
HM624	0.40	1.00	1.90	3.50	6.10	8.0	12.0	14.5	16.0	18.0
M627	0.30	0.75	1.40	2.50	4.30	5.7	8.5	9.9	11.0	12.0
HM627	0.50	1.33	2.50	4.40	7.50	10.0	1.5	17.5	19.0	21.0
M824	0.10	0.25	0.50	0.90	1.50	2.1	3.3	4.0	4.5	5.3
HM824	0.20	0.40	0.80	1.50	2.60	3.7	5.8	7.0	8.0	9.3
M828	0.15	0.33	0.70	1.20	2.20	2.9	4.4	5.3	6.0	6.8
HM828	0.25	0.60	1.20	2.10	3.90	5.0	7.7	9.3	10.5	12.0
M832	0.20	0.45	0.90	1.60	2.80	3.7	5.5	6.5	7.2	8.0
HM832	0.33	0.80	1.50	2.80	4.90	6.5	9.6	11.4	12.5	14.2
M1020	0.03	0.08	0.20	0.30	0.60	0.8	1.3	1.7	2.0	2.4
HM1020	0.05	0.15	0.30	0.50	1.00	1.4	2.3	3.0	3.5	4.2
M1025	0.06	0.15	0.30	0.50	0.90	1.3	2.0	2.5	2.9	3.5
HM1025	0.10	0.25	0.50	0.90	1.60	2.3	3.5	4.4	5.0	6.0
M1030	0.08	0.20	0.40	0.70	1.30	1.8	2.8	3.5	3.9	4.5
HM1030	0.15	0.33	0.70	1.30	2.30	3.2	4.9	6.1	6.8	8.0
M1215	0.01	0.02	0.05	0.10	0.20	0.3	0.5	0.6	0.8	0.9
HM1215	0.02	0.04	0.10	0.17	0.33	0.4	0.8	1.0	1.3	1.6
M1218	0.01	0.03	0.08	0.14	0.25	0.4	0.7	0.9	1.0	1.3
HM1218	0.02	0.05	0.15	0.25	0.47	0.7	1.1	1.5	1.8	2.2
M1221	0.02	0.05	0.11	0.20	0.40	0.5	0.9	1.2	1.4	1.7
HM1221	0.04	0.10	0.20	0.33	0.70	1.0	1.6	2.1	2.5	3.0
M1224	0.03	0.07	0.15	0.25	0.50	0.7	1.2	1.5	1.7	2.0
HM1224	0.05	0.12	0.25	0.47	0.90	1.2	2.1	2.6	3.0	3.5
M1230	0.05	0.12	0.25	0.44	0.80	1.1	1.8	2.2	2.5	3.0
HM1230	0.09	0.21	0.40	0.75	1.40	1.9	3.2	4.0	4.4	5.3
M1414		0.01	0.02	0.05	0.09	0.1	0.2	0.3	0.4	0.5
HM1414		0.02	0.04	0.09	0.16	0.2	0.4	0.6	0.7	0.9
M1616		0.01	0.02	0.05	0.09	0.1	0.2	0.3	0.4	0.5
HM1616		0.02	0.04	0.09	0.16	0.2	0.4	0.6	0.7	0.9
M1620		0.02	0.04	0.08	0.14	0.2	0.4	0.5	0.6	0.8
HM1620		0.04	0.07	0.15	0.25	0.4	0.7	0.9	1.0	1.3
M1624		0.03	0.06	0.12	0.20	0.3	0.5	0.7	0.8	1.0
HM1624		0.05	0.10	0.21	0.40	0.5	0.9	1.2	1.4	1.8
M2020		0.01	0.02	0.04	0.08	0.1	0.2	0.2	0.4	0.5
HM2020		0.02	0.04	0.07	0.14	0.2	0.4	0.5	0.6	0.8
M2025		0.02	0.03	0.06	0.12	0.2	0.3	0.4	0.5	0.6
HM2025		0.04	0.05	0.10	0.21	0.3	0.5	0.7	0.9	1.0

Ratings listed to right of dark line exceed recommended pitch line velocity.



Right Hand Worm and Gear



Single, Double, Quadruple Thread Worms

NOTE: SELF-LOCKING ABILITY

There is often some confusion as to the self-locking ability of a worm and gear set. Martin worm gear sets, under no condition should be considered to hold a load when at rest. The statement is made to cover the broad spectrum of variables affecting self-locking characteristics of a particular gear set in a specific application. Theoretically, a worm gear will not back drive if the friction angle is greater than the worm lead angle. However, the actual surface finish and lubrication may reduce this significantly. More important, vibration may cause motion at the point of mesh with further reduction in the friction angle.

Generally speaking, if the worm lead angle is less than 5°, there is reasonable expectation of self-locking. Again, no guarantee should be made and customer should be advised. **If safety is involved, a positive brake should be used.**

Originally, worm gearing was used to secure, by compact means, a large reduction of speed between driving and driven shafts with a proportionate increase (except for frictional loss) in the torque of the driven shaft. Worm gearing is still used for this purpose, and frequently the wheel is driven by a single-thread worm of such low helix angle that the drive cannot be reversed; that is the wheel cannot drive the worm as the gearing automatically locks itself against backward rotation. (*See note below.)

Although a multiple-threaded worm when applied under like conditions is much more efficient than a single-threaded worm, it does not follow that the multiple-threaded worm should always be used.

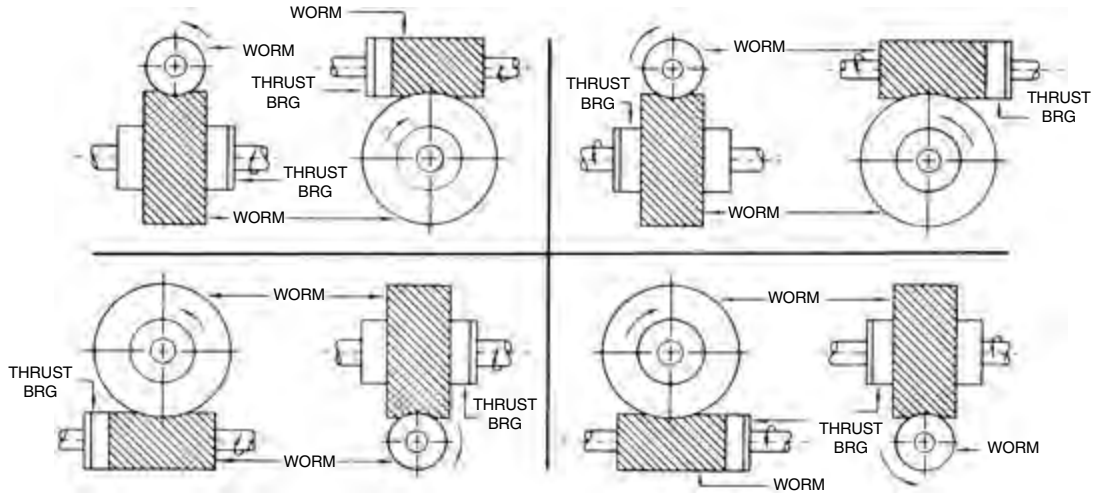
A single-threaded worm might be preferable when the most important requirement is to obtain a high ratio and especially if the worm must be self-locking.

When power is the primary factor, the multiple-threaded worms should be used.

LUBRICATION is an important factor when using worm gearing. An increase in heat generated means a decrease in efficiency. The amount of power which can be transmitted at a given temperature increases as the efficiency of the gearing increases.

MATERIALS for worm and worm gears are generally confined to steel for worms and bronze or cast iron for gears. When steel worms are run with bronze gears at high speeds, the worm is usually hardened with ground threads.

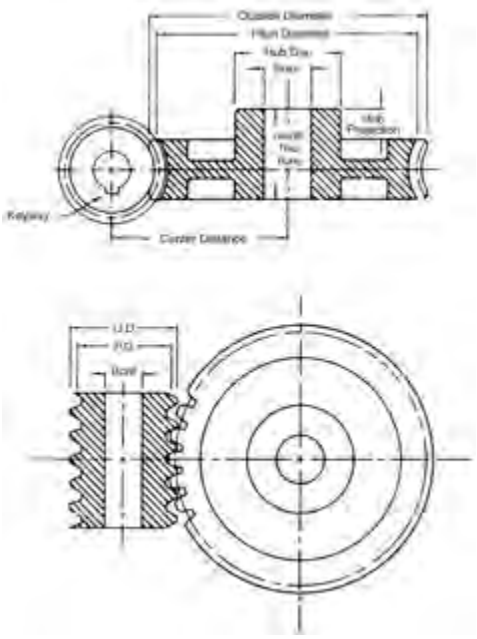
Direction of Rotation and Thrust
Right Hand



Worm and Worm Gears
3 Pitch • 2" Face • 14½° Pressure Angle

Right Hand Single Thread (Stocked Right Hand Only)





Cast Iron

No. Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
18	W318	16.2	6.000	1	3	1½	W
24	W324	22.8	8.000	1½	3½	1½	S
30	W330	30.2	10.000	1½	3⅞	1½	S
36	W336	36.4	12.000	1½	3½	1½	S
54	W354	60.2	18.000	1½	4	1½	S

W = WEB S = SPOKE



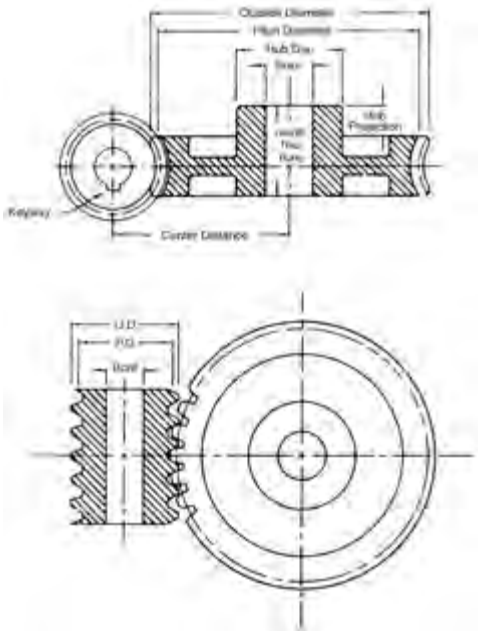
Steel — 4° 46' Helix Angle Worms

Catalog Number Soft	Wt. Lbs. (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Faces (Inches)	Pitch Dia.	Bore (Inches)	Keyway (Inches)
W3	12.2	WG3	12.0	4	4.000	1½	⅜ × 3⁄16

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears
4 Pitch • 1½" Face • 14½° Pressure Angle

Right Hand Single Thread (Stocked Right Hand Only)





Cast Iron

No. Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W420	8.4	5.000	1	2½	1¼	W
24	W424	12.9	6.000	1	2½	1¼	W
32	W432	15.6	8.000	1¼	3	1¼	W
40	W440	27.5	10.000	1¼	3	1¼	W
48	W448	34.1	12.000	1½	4	1¼	W
64	W464	43.9	16.000	1½	4	1¼	S

W = WEB S = SPOKE



Steel — 4° 46' Helix Angle Worms

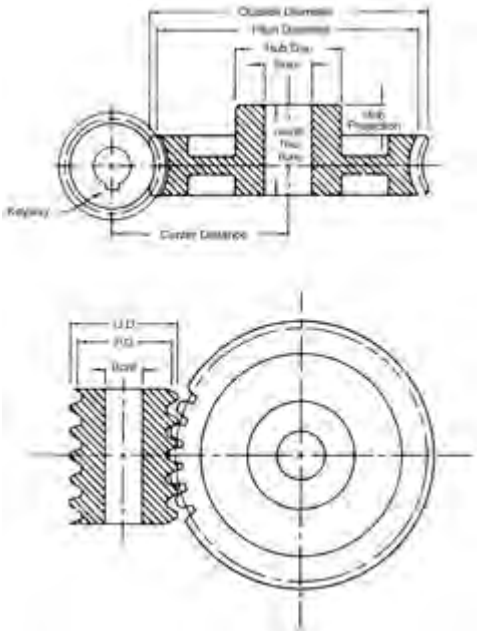
Catalog Number Soft	Wt. Lbs. (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Faces (Inches)	Pitch Dia.	Bore (Inches)	Keyway (Inches)
W4	5.6	WG4	5.5	3½	3.000	1¼	5/16 × 5/32

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears
6 Pitch • 1" Face • 14½° Pressure Angle

Right Hand Single Thread (Stocked Right Hand Only)





Cast Iron

No. Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W620	2.5	3.333	¾	1⅞	⅞	W
24	W624	3.6	4.000	¾	1⅞	⅞	W
30	W630	5.0	5.000	⅞	2¼	⅞	W
36	W636	6.0	6.000	1	2½	⅞	W
40	W640	7.6	6.667	1	2½	⅞	W
48	W648	9.2	8.000	1¼	2¾	1	W
60	W660	13.7	10.000	1¼	3	1¼	W
72	W672	14.9	12.000	1¼	3	1¼	W

Has 2¾" hub diameter and 1¼" hub proj. W = WEB



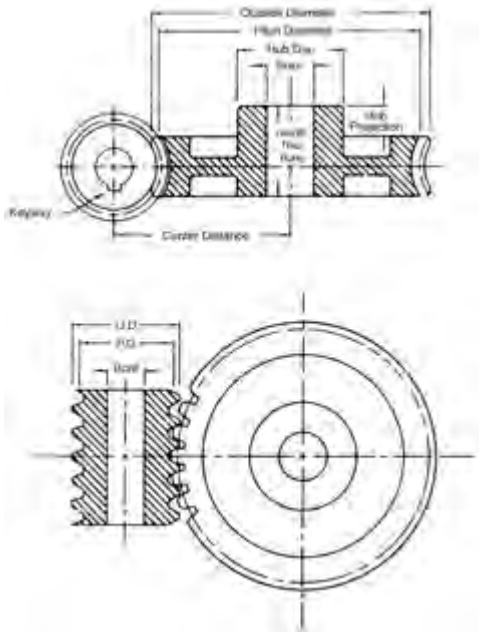
Steel — 4° 46' Helix Angle Worms

Catalog Number Soft	Wt. Lbs. (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W6	1.8	WG6	1.7	2½	2.000	⅞			3⁄16 × 3⁄32
WH6	2.7			2½	2.000	⅞	1 9⁄16	¾	3⁄16 × 3⁄32

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears
6 Pitch • 1" Face • 14½° Pressure Angle

Right Hand Double Thread (Stocked Right Hand Only)





Cast Iron

Number Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W620D	3.3	3.333	1	2¾	1	PLAIN
24	W624D	4.1	4.000	1¼	2¾	1	PLAIN
30	W630D	5.2	5.000	1¼	2¾	1	W
40	W640D	7.6	6.667	1¼	2¾	1	W

W = WEB



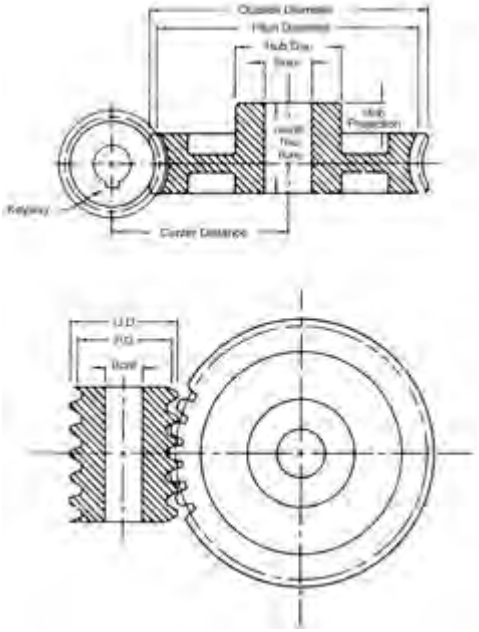
Steel — 9° 28' Helix Angle Worms

Catalog Number Soft	Weight Pounds (App.)	Face (Inches)	Pitch Diameter	Bore (Inches)	Keyway (Inches)
W6D	1.6	2½	2.000	1	¼ × ⅛

Worm and Worm Gears
6 Pitch • 1" Face • 14½° Pressure Angle

Right Hand Quadruple Thread (Stocked Right Hand Only)





Cast Iron

Number Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W620Q	3.4	3.333	1	2¾	1	PLAIN
24	W624Q	4.1	4.000	1¼	2¾	1	PLAIN

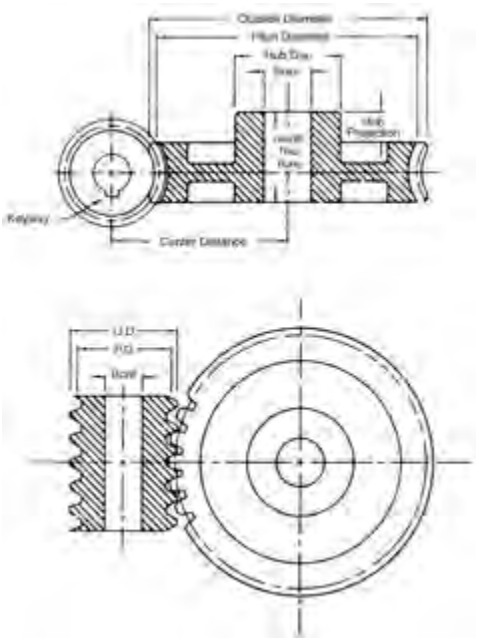


Steel — 18° 26' Helix Angle Worms

Catalog Number Soft	Wt. Lbs. (App.)	Face (Inches)	Pitch Diameter	Bore (Inches)	Keyway (Inches)
W6Q	1.6	2½	2.000	1	¼ × ⅛

Worm and Worm Gears
8 Pitch • ¾" Face • 14½° Pressure Angle

Right Hand Single Thread (Stocked Right Hand Only)





Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Pounds (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W820	1.3	2.500	¾	1¾	¾	PLAIN
30	W830	2.4	3.750	¾	1¾	¾	W
40	W840	3.7	5.000	1	2⅜	⅞	W
48	W848	4.5	6.000	1	2⅜	⅞	W
50	W850	5.1	6.250	1	2⅜	⅞	W
60	W860	6.1	7.500	1	2½	⅞	W
80	W880	8.9	10.000	1¼	3	⅞	W

W = WEB



Steel — 4° 46' Helix Angle Worms

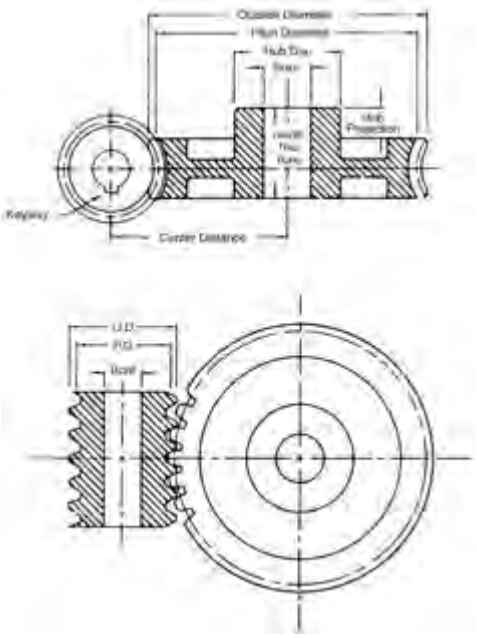
Catalog Number Soft	Weight Pounds (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W8	0.64	WG8	0.62	1¾	1.500	¾			3/16 × 3/32
WH8	0.74			1¾	1.500	¾	1 3/16	⅝	

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears
8 Pitch • ¾" Face • 14½° Pressure Angle

Right Hand Double Thread (Stocked Right Hand Only)





Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Pounds (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W820D	1.2	2.500	1	2	¾	PLAIN
30	W830D	2.5	3.750	1	2¼	¾	W
40	W840D	3.4	5.000	1	2¼	¾	W

W = WEB



Steel — 9° 28' Helix Angle Worms

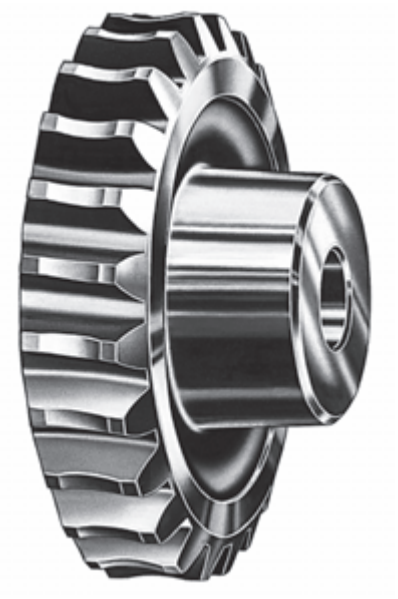
Catalog Number Soft	Weight Pounds (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W8D	0.56	WG8D	0.54	1¾	1.500	⅞			3⁄16 × 3⁄32
WH8D	0.74			1¾	1.500	¾	1 3⁄16	⅝	

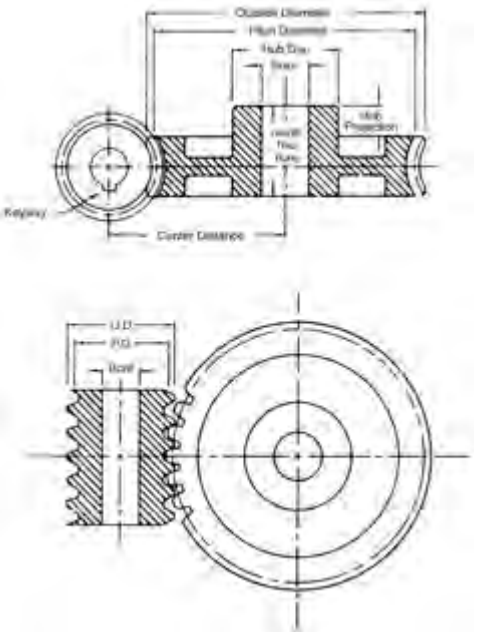
Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears

8 Pitch • ¾" Face • 14½° Pressure Angle

Right Hand Quadruple Thread (Stocked Right Hand Only)





Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W820Q	1.2	2.500	1	2	¾	PLAIN
30	W830Q	2.5	3.750	1	2¼	¾	W

W = WEB

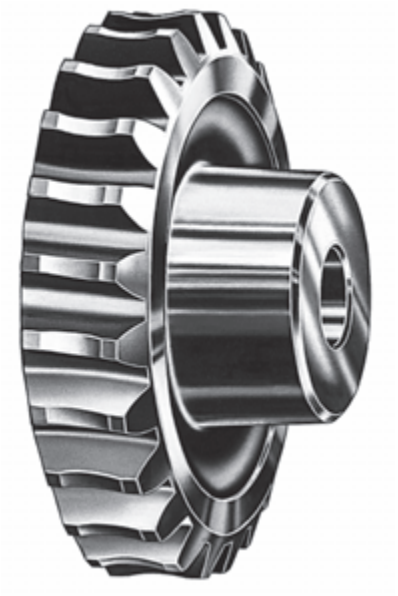


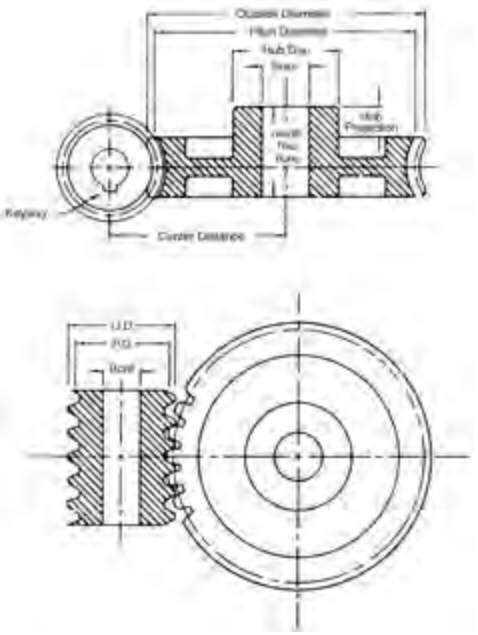
Steel — 18° 26' Helix Angle Worms

Catalog Number Cast Iron	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
					Dia.	Proj.	
W8Q	0.58	1¾	1.500	⅞			3⁄16 × 3⁄32
WH8Q	0.76	1¾	1.500	¾	1 3⁄16	⅝	

Worm and Worm Gears
10 Pitch • 5/8" Face • 14½° Pressure Angle

Right Hand Single Thread (Stocked Right Hand Only)





Cast Iron and Bronze

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
20	W1020	0.7	2.000	½	1¼	¾	PLAIN	WB1020	.8
30	W1030	1.5	3.000	⅝	1¾	¾	PLAIN	WB1030	1.7
40	W1040	1.8	4.000	⅝	1¾	¾	W	WB1040	2.4
50	W1050	2.8	5.000	¾	2	¾	W		
60	W1060	3.6	6.000	¾	2	¾	W		
80	W1080	4.8	8.000	¾	2	¾	W		
100	W10100	6.0	10.000	¾	2½	¾	W		

W = WEB



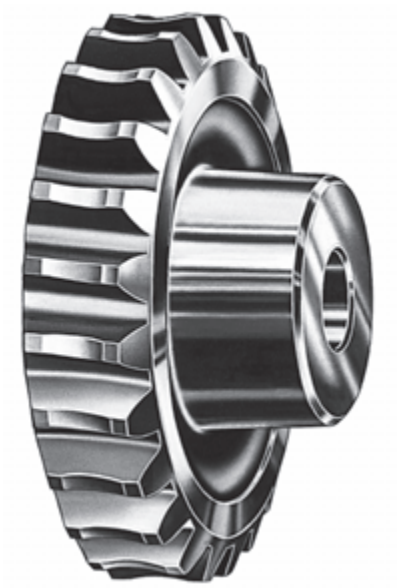
Steel — 4° 34' Helix Angle Worms

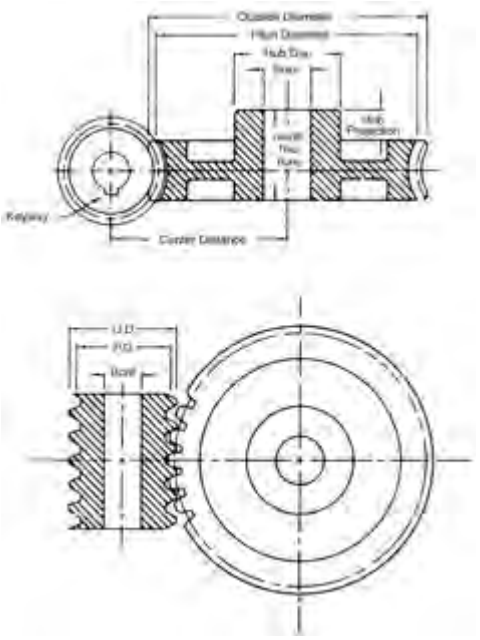
Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W10	0.36	WG10	0.32	1⅜	1.250	⅝			3/16 × 3/32
WH10	0.42		0.38	1⅜	1.250	⅝	1	½	

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears
10 Pitch • 5/8" Face • 14½° Pressure Angle

Right Hand Double Thread (Stocked Right Hand Only)





Cast Iron and Bronze

No. Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
20	W1020D	0.65	2.000	⅞	1⅝	⅝	PLAIN	WB1020D	0.75
30	W1030D	1.30	3.000	⅞	1¾	⅝	PLAIN	WB1030D	1.30
40	W1040D	1.60	4.000	⅞	1¾	⅝	W		
50	W1050D	2.90	5.000	⅞	2	1	W		
60	W1060D	3.00	6.000	⅞	2	1	W		

W = WEB

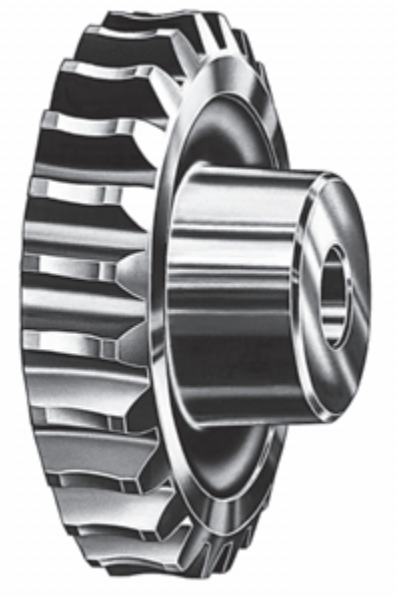


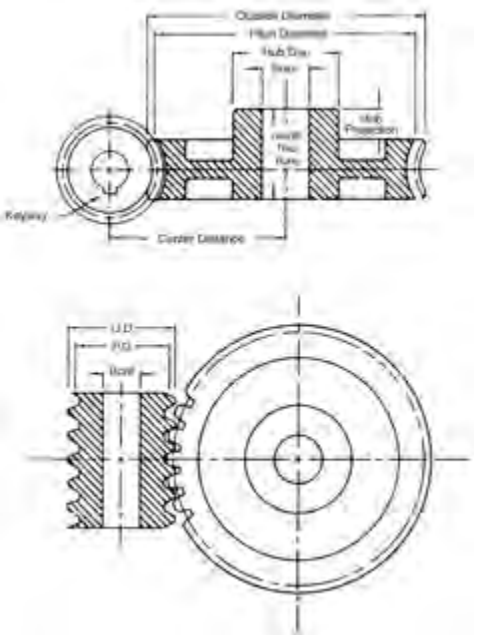
Steel — 9° 5' Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
					Dia.	Proj.	
W10D	0.28	1⅜	1.2500	¾			3/16 × 3/32
WH10D	0.42	1⅜	1.2500	⅝	1	½	

Worm and Worm Gears
10 Pitch • 5/8" Face • 14½° Pressure Angle

Right Hand Quadruple Thread (Stocked Right Hand Only)





Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W1020Q	0.64	2.000	7/8	1 5/8	5/8	PLAIN
30	W1030Q	1.30	3.000	7/8	1 3/4	5/8	W
40	W1040Q	1.60	4.000	7/8	1 3/4	5/8	W

W = WEB

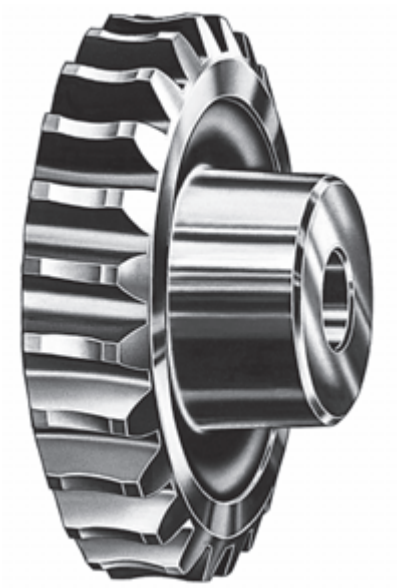


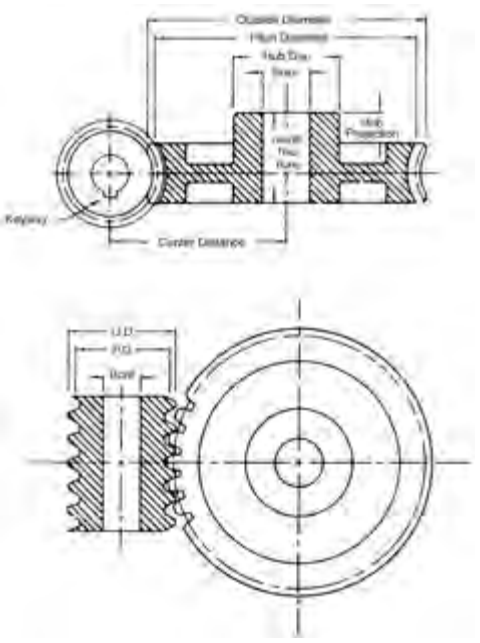
Steel — 17° 45' Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
					Dia.	Proj.	
W10Q	0.28	1 3/8	1.250	3/4			3/16 × 3/32
WH10Q	0.40	1 3/8	1.250	5/8	1	1/2	

Worm and Worm Gears
12 Pitch • ½" Face • 14½° Pressure Angle

Right Hand Single Thread (Stocked Right Hand Only)





Cast Iron and Bronze

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
18	W1218	0.28	1.500	½	1¼	⅝	PLAIN		
20	W1220	0.35	1.667	½	1¼	⅝	PLAIN	WB1220	0.45
30	W1230	0.71	2.500	½	1¼	⅝	W		
40	W1240	1.20	3.333	⅝	1½	¾	W		
50	W1250	1.50	4.166	⅝	1½	¾	W		
60	W1260	2.00	5.000	⅝	1¾	¾	W		
80	W1280	3.90	6.666	⅝	2½	¾	W		
100	W12100	4.40	8.333	¾	2	¾	W		

W = WEB



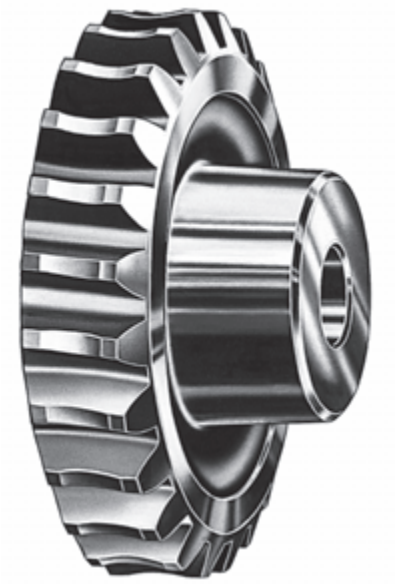
Steel — 4° 46' Helix Angle Worms

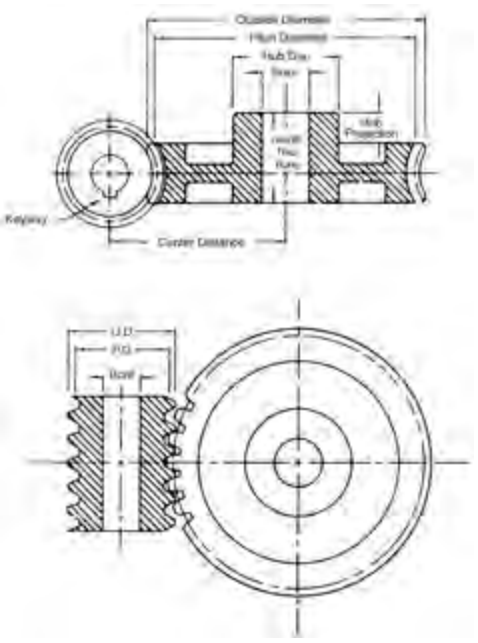
Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs. (Apporx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W12	0.17	WG12	0.14	1⅛	1.000	½			⅛ × 1/16
WH12	0.20			1⅛	1.000	½	¾	⅜	

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears
12 Pitch • ½" Face • 14½° Pressure Angle

Right Hand Double Thread (Stocked Right Hand Only)





Cast Iron and Bronze

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
20	W1220D	0.32	1.666	½	1¼	½	PLAIN	WB1220D	0.40
30	W1230D	0.78	2.500	¾	1½	⅝	PLAIN		
40	W1240D	1.30	3.333	¾	1¾	⅝	W		

W = WEB



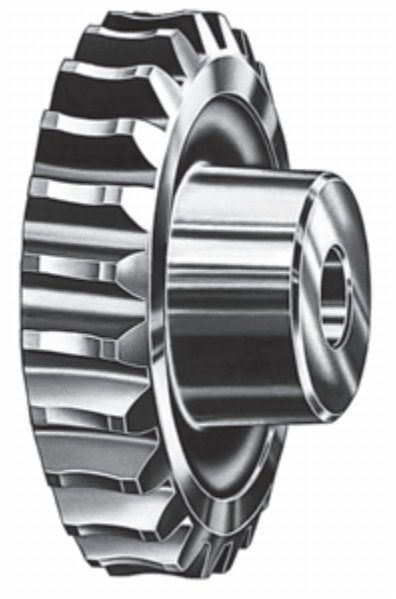
Steel — 9° 28' Helix Angle Worms

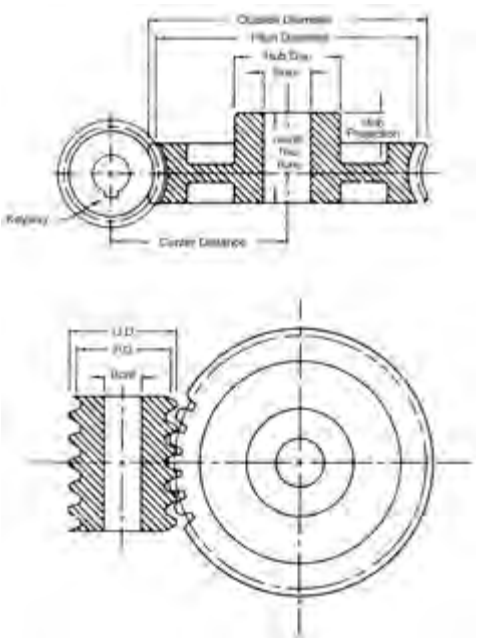
Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W12D	0.14	WG12D	0.14	1⅛	1.000	⅝			⅛ × 1/16
WH12D	0.20			1⅛	1.000	½	¾	⅜	

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears
12 Pitch • ½" Face • 14½° Pressure Angle

Right Hand Quadruple Thread (Stocked Right Hand Only)





Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W1220Q	0.32	1.666	½	1¼	½	PLAIN
30	W1230Q	0.38	2.500	¾	1½	⅝	PLAIN
40	W1240Q	0.80	3.333	¾	1¾	⅝	W

W = WEB

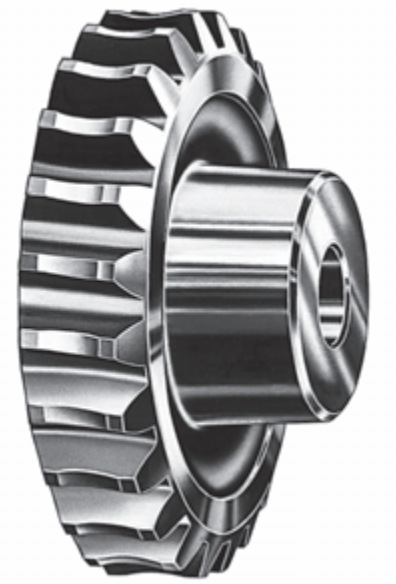


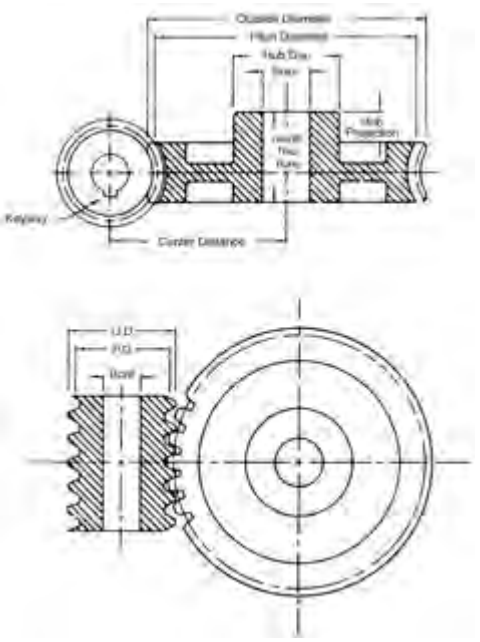
Steel — 18° 26' Helix Angle Worms

Catalog Number Soft	Weight Lbs (Approx.)	Catalog Number Hardened	Weight Lbs (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W12Q	0.14	WG12Q	0.14	1⅛	1.000	⅝			⅛ × 1/16
WH12Q	0.20			1⅛	1.000	½	¾	⅜	

Worm and Worm Gears
16 Pitch • 5/16" Face • 14½° Pressure Angle

Right Hand Single Thread (Stocked Right Hand Only)





Bronze

Number Teeth	Catalog Number	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	WB1620	0.13	1.250	¼	⅝	5/16	PLAIN
30	WB1630	0.28	1.875	5/16	¾	⅜	W
40	WB1640	0.42	2.500	5/16	¾	⅜	W
50	WB1650	0.50	3.125	⅜	⅞	7/16	W

W = WEB



Steel — 5° 43' Helix Angle Worms

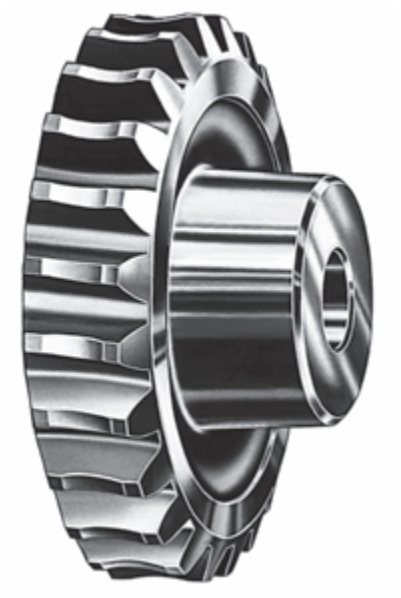
Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)	
							Dia.	Proj.
WH16	0.08			1	0.625	¼	0.46	¼
		WHG16	0.07	1	0.625	5/16	0.46	¼

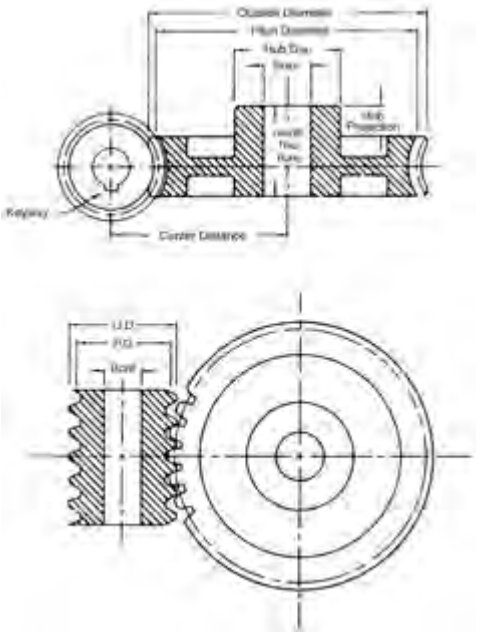
Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears

16 Pitch • 5/16" Face • 14½° Pressure Angle

Right Hand Double Thread (Stocked Right Hand Only)





Bronze

Number Teeth	Catalog Number	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	WB1620D	0.14	1.250	¼	⅝	5/16	PLAIN

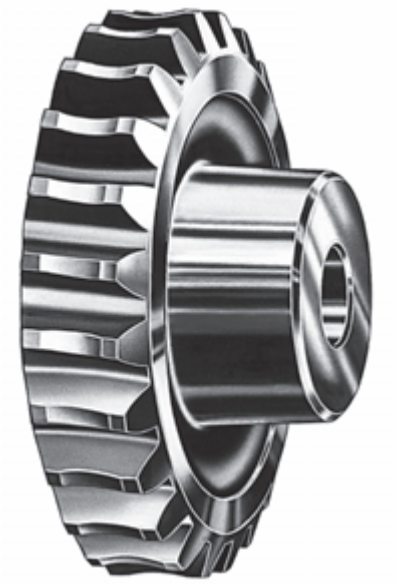


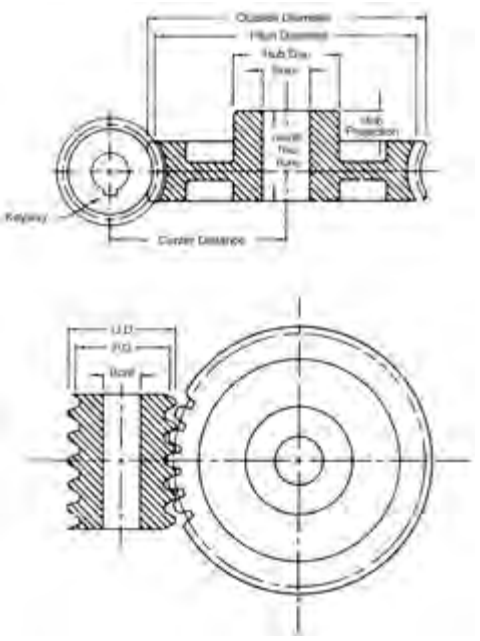
Steel — 11° 19' Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)	
					Dia.	Proj.
WH16D	0.09	1	0.625	¼	0.46	¼

Worm and Worm Gears
16 Pitch • 5/16" Face • 14 1/2° Pressure Angle

Right Hand Quadruple Thread (Stocked Right Hand Only)





Bronze

Number Teeth	Catalog Number	Weight Lbs (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	WB1620Q	0.14	1.250	¼	⅝	5/16	PLAIN



Steel — 21° 48' Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)	
					Dia.	Proj.
WH16Q	0.08	1	0.625	¼	0.46	¼

Ratio-Center Distance Listings With Approximate Horsepower and Torque† Ratings for Hardened and Ground Worms With Bronze Worm Gears

RPM of Worm			1800		900		300		100	
Center			Input-Output		Input-Output		Input-Output		Input-Output	
Ratio	Distance	*Gear	HP	Torque	HP	Torque	HP	Torque	HP	Torque
5.00	0.938	WB1620Q	0.37	60	0.25	70	0.09	80	0.03	80
5.00	1.333	WB1220Q	0.80	130	0.55	170	0.25	200	0.08	215
5.00	1.625	WB1020Q	1.25	200	0.90	275	0.40	350	0.15	370
5.00	2.000	WB820Q	2.00	315	1.50	460	0.80	890	0.33	965
5.00	2.667	WB620Q	3.70	600	2.75	880	1.40	1280	0.55	1430
6.00	3.000	WB624Q	4.50	880	3.40	1300	1.75	1900	0.70	2180
7.50	1.250	WB1630Q	0.50	130	0.33	160	0.14	180	0.05	185
7.50	1.750	WB1230Q	1.25	300	0.85	390	0.33	460	0.13	490
7.50	2.125	WB1030Q	1.90	450	1.33	560	0.60	790	0.25	850
7.50	2.625	WB830Q	3.00	725	2.25	1060	1.00	1400	0.40	1520
7.50	3.500	WB630Q	5.75	1400	4.33	2060	2.20	2960	0.87	3330
9.67	4.050	WB529T	8.40	2615	6.25	3785	3.33	5730	1.33	6540
10.00	0.938	WB1620D	0.25	70	0.15	85	0.06	90	0.02	95
10.00	1.333	WB1220D	0.50	155	0.33	205	0.16	240	0.60	250
10.00	1.562	WB1640Q	0.75	240	0.50	285	0.18	320	0.06	330
10.00	1.625	WB1020D	0.80	230	0.60	325	0.25	400	0.10	430
10.00	2.000	WB820D	1.25	365	0.90	525	0.45	690	0.15	750
10.00	2.167	WB1240Q	1.67	530	1.10	700	0.50	830	0.17	880
10.00	2.625	WB1040Q	2.50	805	1.75	1120	0.80	1400	0.30	1500
10.00	2.667	WB620D	2.40	735	1.80	1075	0.95	1540	0.37	1700
10.00	3.250	WB840Q	4.00	1300	3.00	1880	1.40	2500	0.50	2700
10.00	4.333	WB640Q	7.75	2500	5.75	3675	3.00	5333	1.15	5980
12.00	3.000	WB624D	2.85	1050	2.20	1550	1.15	2200	0.45	2450
12.5	1.875	WB1650Q	0.95	375	0.60	445	0.25	500	0.08	515
12.5	2.583	WB1250Q	2.00	820	1.40	1080	0.60	1300	0.20	1370
12.5	3.125	WB1050Q	3.00	1250	2.25	1740	1.00	2200	0.33	2340
12.5	3.875	WB850Q	4.90	2000	3.70	2900	1.70	3840	0.65	4170
12.5	5.167	WB650Q	9.50	3800	7.00	5600	3.60	8200	1.40	9200
13.33	5.150	WB540T	11.00	4720	8.20	6830	4.40	10360	1.75	11800
15.00	1.250	WB1630D	0.33	155	0.25	180	0.08	200	0.03	210
15.00	1.750	WB1230D	0.75	350	0.50	450	0.25	535	0.07	560
15.00	2.125	WB1030D	1.20	520	0.87	725	0.37	900	0.15	965
15.00	2.188	WB1660Q	1.10	570	0.70	680	0.25	760	0.10	790
15.00	2.625	WB830D	1.67	750	1.25	1080	0.60	1415	0.25	1530
15.00	3.000	WB1260Q	2.50	1170	1.67	1540	0.70	1800	0.25	1930
15.00	3.500	WB630D	3.50	1620	2.70	2375	1.40	3370	0.55	3770
15.00	3.625	WB1060Q	3.75	1700	2.67	2500	1.17	3100	0.50	3300
15.00	4.500	WB860Q	5.75	2820	4.33	4100	2.00	5470	0.75	6000
15.00	6.000	WB660Q	11.33	5550	8.50	8000	4.33	11700	1.70	13100
16.67	6.150	WB550T	13.50	7250	10.00	10500	5.40	16000	2.20	18000
18.00	5.000	WB318	6.00	3100	4.67	4570	3.00	8000	1.50	10000
18.00	7.000	WB672Q	13.50	7800	10.00	11400	5.00	16500	2.00	18500
20.00	0.938	WB1620	0.15	75	0.10	90	0.04	100	0.02	105
20.00	1.333	WB1220	0.33	170	0.25	220	0.10	260	0.04	275
20.00	1.562	WB1640D	0.50	270	0.30	310	0.10	350	0.04	350
20.00	1.625	WB1020	0.50	250	0.33	350	0.20	440	0.07	470

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.
† Torque ratings in inch pounds.

Ratio-Center Distance Listings With Approximate Horsepower and Torque† Ratings for Hardened and Ground Worms With Bronze Worm Gears

RPM of Worm			1800		900		300		100	
Center			Input-Output		Input-Output		Input-Output		Input-Output	
Ratio	Distance	*Gear	HP	Torque	HP	Torque	HP	Torque	HP	Torque
20	2.000	WB820	0.75	400	0.60	600	0.33	775	0.12	850
20	2.167	WB1240D	1.00	600	0.67	775	0.33	920	0.10	970
20	2.625	WB1040D	1.50	900	0.85	1230	0.50	1500	0.20	1650
20	2.667	WB620	1.50	800	1.15	1170	0.75	1660	0.25	1850
20	2.812	WB1680Q	1.40	900	0.90	1075	0.33	1200	0.12	1240
20	3.250	WB840D	2.30	1400	1.75	2000	0.80	2580	0.33	2800
20	3.833	WB1280Q	3.12	2000	2.12	2600	0.90	3120	0.33	3300
20	4.000	WB420	3.50	2000	2.75	2880	1.75	4700	0.75	5600
20	4.333	WB640D	4.50	2780	3.40	4050	1.75	5800	0.70	6500
20	4.625	WB1080Q	4.75	3000	3.40	4250	1.50	5340	0.50	5700
20	5.750	WB880Q	7.50	4800	5.60	7000	2.60	9400	1.00	10200
20	7.667	WB680Q	15.00	9500	10.75	13800	5.50	20000	2.20	22500
24	3.000	WB624	1.75	1120	1.33	1630	0.75	2300	0.33	2600
24	4.500	WB424	4.00	2800	3.00	4000	2.00	6600	0.90	7800
24	6.000	WB324	7.50	5300	5.90	7750	3.90	13500	1.90	17000
25	1.875	WB1650D	0.50	370	0.33	470	0.12	520	0.05	540
25	2.583	WB1250D	1.20	890	0.80	1150	0.33	1380	0.12	1450
25	3.125	WB1050D	1.80	1340	1.33	1850	0.60	2300	0.25	2500
25	3.438	WB16100Q	1.75	1300	1.00	1575	0.40	1750	0.12	1800
25	3.875	WB850D	3.00	2200	2.25	3250	1.00	4200	0.40	4500
25	4.667	WB12100Q	3.67	2800	2.50	3660	1.00	4400	0.40	4630
25	5.167	WB650D	5.50	4000	4.00	6000	2.15	8700	0.87	9700
25	5.625	WB10100Q	5.70	4500	4.10	6380	1.75	8000	0.67	8500
25	7.000	WB8100Q	10.00	9700	7.00	11500	4.00	17500	1.25	19000
25	9.333	WB6100Q	17.50	14250	13.00	20750	6.66	30000	2.60	33000
29	4.050	WB529	3.50	2800	2.75	4200	1.50	6300	0.67	7000
30	1.250	WB1630	0.20	160	0.12	190	0.06	210	0.02	215
30	1.750	WB1230	0.50	350	0.33	450	0.15	540	0.06	570
30	2.125	WB1030	0.70	530	0.50	750	0.25	925	0.10	1000
30	2.188	WB1660	0.60	590	0.40	700	0.15	760	0.05	800
30	2.625	WB830	1.00	870	0.85	1260	0.40	1600	0.17	1750
30	3.000	WB1260D	1.33	1230	1.00	1600	0.40	1900	0.15	2000
30	3.500	WB630	2.00	1700	1.60	2430	0.87	3500	0.33	3800
30	3.625	WB1060D	2.00	1850	1.50	2500	0.70	3200	0.25	3430
30	4.500	WB860D	3.25	2900	2.50	4300	1.12	5650	0.50	6000
30	6.000	WB660D	6.30	5800	4.80	6075	2.50	12110	1.00	13510
30	7.000	WB330	9.05	7880	7.00	11570	4.60	20280	2.25	25560
32	5.500	WB432	5.15	4680	4.00	6750	2.50	11140	1.10	13200
36	4.000	WB636	2.33	2310	1.80	3380	1.00	4800	0.42	5360
36	7.000	WB672D	7.25	8010	5.50	11670	2.87	16700	1.15	18650
36	8.000	WB336	10.40	10900	8.10	15960	5.35	27950	2.60	35280
40	1.562	WB1640	0.25	266	0.12	330	0.07	350	0.02	360
40	2.167	WB1240	0.55	580	0.30	825	0.18	900	0.07	940
40	2.625	WB1040	0.87	890	0.65	1220	0.30	1520	0.12	1630
40	2.812	WB1680D	0.75	910	0.33	1140	0.20	1200	0.07	1230

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.
† Torque ratings in inch pounds.

Ratio-Center Distance Listings With Approximate Horsepower and Torque† Ratings for Hardened and Ground Worms With Bronze Worm Gears

RPM of Worm			1800		900		300		100	
Center			Input-Output		Input-Output		Input-Output		Input-Output	
Ratio	Distance	*Gear	HP	Torque	HP	Torque	HP	Torque	HP	Torque
40	3.250	WB840	1.35	1440	0.85	2350	0.50	2700	0.20	2900
40	3.833	WB1280D	1.70	2040	1.15	2675	0.50	3160	0.20	3330
40	4.333	WB640	2.50	2770	2.00	4033	1.00	5760	0.45	6420
40	4.625	WB1080D	2.60	3070	1.90	4270	0.85	5315	0.33	5680
40	5.150	WB540	4.33	4930	3.40	7145	2.00	10725	0.83	12170
40	5.750	WB880D	4.00	4740	3.00	6850	1.40	8940	0.55	9680
40	6.500	WB440	6.00	5520	4.65	7950	3.00	13200	1.33	15480
40	7.667	WB680D	7.83	9600	6.00	14000	3.00	20025	1.25	22340
48	3.750	WB848	1.50	1950	1.20	2820	0.60	3650	0.25	3960
48	5.000	WB648	2.80	3730	2.25	5460	1.25	7750	0.50	8640
48	7.500	WB448	6.80	9320	5.25	13400	3.33	22200	1.50	26160
48	10.000	WB348	12.70	17640	9.87	25920	6.50	45360	3.16	57120
50	1.875	WB1650	0.30	380	0.20	450	0.08	490	0.03	515
50	2.583	WB1250	0.66	840	0.50	1090	0.20	1300	0.08	1360
50	3.125	WB1050	1.00	1280	0.75	1770	0.33	2200	0.14	2340
50	3.438	WB16100D	0.90	1290	0.50	1525	0.25	1690	0.08	1730
50	3.875	WB850	1.60	2140	1.25	3130	0.66	4090	0.25	4430
50	4.667	WB12100D	2.00	2875	1.33	3600	0.50	4460	0.22	4700
50	5.167	WB650	2.90	4000	2.25	5825	1.25	8310	0.50	9260
50	5.625	WB10100D	3.00	4440	2.16	6110	1.00	7675	0.33	8000
50	6.150	WB550	5.12	7120	4.00	10320	2.25	15480	1.00	17570
50	7.000	WB8100D	4.10	5000	2.75	7500	1.50	8000	0.60	10000
50	9.333	WB6100D	9.00	13800	6.75	20200	3.50	28930	1.40	32280
54	11.000	WB354	13.50	21230	10.50	31200	7.00	54480	3.33	68760
59	7.050	WB559	5.50	9230	4.50	13900	2.50	20075	1.00	23160
60	2.188	WB1660	0.33	550	0.20	650	0.08	720	0.03	740
60	3.000	WB1260	0.75	1100	0.50	1440	0.25	1700	0.09	1790
60	3.625	WB1060	1.00	1690	0.80	2330	0.33	2890	0.16	3080
60	4.500	WB860	1.66	2660	1.33	3900	0.66	5090	0.25	5500
60	6.000	WB660	3.20	5240	2.50	7670	1.40	1080	0.60	1225
64	9.500	WB464	7.87	14280	6.00	20640	3.80	34080	1.70	40320
72	7.000	WB672	3.33	6610	2.50	9660	1.50	13700	0.60	15360
80	2.812	WB1680	0.33	705	0.22	830	0.09	920	0.04	950
80	3.833	WB1280	0.75	1550	0.50	2030	0.25	2375	0.10	2520
80	4.625	WB1080	1.15	2375	0.87	3275	0.40	4050	0.16	4330
80	5.750	WB880	1.80	3800	1.40	5500	0.70	7140	0.30	7750
80	7.667	WB680	3.33	7380	2.66	10750	1.50	15350	0.60	17110
96	6.750	WB896	1.50	4200	1.00	6000	0.50	7000	0.20	8500
96	9.000	WB696	3.25	8490	2.50	12370	1.33	17660	0.50	19680
100	3.438	WB16100	0.33	810	0.20	960	0.09	1060	0.33	1100
100	4.667	WB12100	0.75	1790	0.50	2330	0.25	2730	0.90	2800
100	5.625	WB10100	1.00	2780	0.80	3850	0.33	4775	0.16	5100
100	7.000	WB8100	1.67	4450	1.25	6300	0.67	8000	0.24	9000
100	9.333	WB6100	3.20	8700	2.50	12675	1.33	18090	0.55	20160

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.
† Torque ratings in inch pounds.

Gear Standards

Quality is the most important factor in buying a gear. We have established Standards and Tolerances to insure our customers of accurate, dependable and long-lasting gears. All gears are checked with precision pins to assure correct backlash and center distances.

BACKLASH: All stock gears are checked between centers for backlash. The recommended backlash for mating gears when assembled is:

3 DP	.009 — .014	10 DP	.003 — .005
4 DP	.007 — .011	12 DP	.003 — .005
5 DP	.006 — .009	16 DP	.002 — .004
6 DP	.005 — .008	20 DP	.002 — .004
8 DP	.004 — .006	24 DP	.002 — .004

CONCENTRICITY of pitch line with bore (Total Indicator Reading) is held within:

3 DP	.006	10 DP	.0040
4 DP	.006	12 DP	.0040
5 DP	.005	16 DP	.0025
6 DP	.005	20 DP	.0025
8 DP	.005	24 DP	.0025

Stock bores are reamed, honed or ground to a smooth finish and standard commercial tolerances or closer. For rust prevention on distributor's shelf and for better appearance when received by the user, all stock gears go through a special finishing process. They present a pleasing appearance when on display or on the shelf. They are not boxed. All gears are identified by part numbers.

Gear Engineering Data

Spur Gear
Gear Formulas
Drive Selection
Horsepower and Torque
Tables

Stock Spur Gear Drive Selection

When designing a stock gear drive using the horsepower tables in this catalog, the following steps must be taken:

I. Find out these five necessary things:

a. Exact center distance in inches
b. Ratio and speeds
c. Service factor (from page G-84)
d. Actual horsepower
e. Bore sizes of both gears

II. Determine Design Horsepower using formula:

$$DHP = HP \times SF$$

Where: DHP = Design Horsepower

HP = Actual Horsepower

SF = Service Factor (from page G-84)

III. Determine Pitch Diameters using the formulas:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

$$PD_2 = PD_1 \times Ratio$$

Where: PD_1 = Pitch Diameter of Pinion (small gear)

PD_2 = Pitch Diameter of Gear (large gear)

CD = Center Distance

IV. Check the Center Distance:

$$CD = \frac{PD_1 + PD_2}{2}$$

V. Select Pitch from Horsepower tables on pages G-25 — G-27.

VI. Check Selected pitch for necessary Pitch Diameters.

VII. Check Horsepower capacity of Large Gear.

VIII. Check maximum bore capacity of selected Gears.

Spur Gear Drive Selection II (Other Than Stock)

When designing a gear drive when horsepower and speeds exceed the stock gear tables on pages G-25 – G-27, the following steps must be taken:

I. We must obtain all of the following data:

a. Exact center distance in inches
b. Ratio and speeds
c. Service factor (from page G-84)
d. Actual horsepower
e. Bore sizes of both gears

II. Determine Design Horsepower using formula:

$$DHP = HP \times SF$$

Where: DHP = Design Horsepower

HP = Actual Horsepower

SF = Service Factor (from page G-84)

III. Determine Pitch Diameters using the formulas:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

$$PD_2 = PD_1 \times Ratio$$

Where: PD_1 = Pitch Diameter of Pinion (small gear)

PD_2 = Pitch Diameter of Gear (large gear)

CD = Center Distance

IV. Determine velocity using the formula:

$$V = .262 \times PD \times RPM$$

Where: V = Velocity in feet per minute @ pitch line

PD = Pitch Diameter

RPM = Revolutions per minute of either gear*

V. Determine approximate pitch using the formula:

$$DP = \sqrt{\frac{3.1416 \times S \times 3 \times V \times .25}{DHP \times 27.5\ (1200 + V)}}$$

Where: DP = Diametral Pitch

S = Safe Static Stress per Square Inch of material (see table one, page G-84)

V = Velocity in FPM

DHP = Design Horsepower

Note: To round off answers, go to the nearest DP (standard DP's larger than 3 DP are: 1 DP, 1¼ DP, 1½ DP, 1¾ DP, 2 DP, 2½ DP)

VI. Determine number of teeth on both gears:

$$N = PD \times DP$$

Where: N = Number of teeth

PD = Pitch Diameter of gear

DP = Diametral Pitch of gear

NOTE: Velocities of both gears will always be the same. When using the above formula make sure to use the proper speed (RPM) with the proper pitch diameter.

Spur Gear Drive Selection II (Other Than Stock)

VII. Determine Face Width:

$$F = DP\frac{\left(\frac{DHP \times 33{,}000}{V}\right)}{SY\left(\frac{600}{600 + V}\right)}$$

Where: F = Face Width

DP = Diametral Pitch

V = Velocity in FPM

S = Safe Static Stress per Square Inch of material (Table 1, page G-84)

Y = Outline formula from Table 2, page G-84

Note: To round off each answer, go to the next one inch.

VIII. Check HP rating of selected pinion using the formula:

$$HP = \frac{LV}{33{,}000}$$

Where: $L = \frac{SYF}{DP} \times \frac{600}{600 + V}$

From horsepower formulas on page G-83.

Note: If the horsepower capacity is below the design horsepower, the following options can be taken:
A. Harden pinion (check gear HP capacity first)
B. Increase face
C. Increase pitch

Center Distance, Pitch Diameters and Ratios of Spur Gears

To determine the pitch diameters of a gear set, we must find two basic things:

1. Required ratio

2. Required center distance

Knowing this, first figure out the pitch diameter of the pinion (smaller gear) using the formula:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

Where: PD_1 = Pitch Diameter of the Pinion

CD = Center Distance

Then, find the pitch diameter of the larger gear, PD_2, by using the formula:

$$PD_2 = PD_1 \times Ratio$$

Then check the center distance by using the formula:

$$CD = \frac{PD_1 + PD_2}{2}$$

Horsepower Formulas

See page G-84 for tables one, two and three

Engineering Data
Lewis Formula (with Barth Revision)

L = Load in pounds at pitch line

S = Safe static stress per square inch of material (see table one)

DP = Diametral Pitch

F = Face width of gear

Y = Strength factor based on Pressure Angle and Number of Teeth (See table two)

V = Velocity in feet per minute
$V = .262 \times PD \times RPM$

PD = Pitch Diameter

RPM = Revolutions Per Minute

HP = Horsepower

$$L = \frac{SFY}{DP} \times \frac{600}{600 + V}$$

Maximum allowable torque (T) that should be imposed on a gear will be the safe tooth load (L) multiplied by

$$\frac{DP}{2} \text{ or } T = \frac{L \times PD}{2}$$

The safe Horsepower capacity of the gear (at a given RPM) can be calculated from $HP = \frac{T \times RPM}{63{,}025}$
or directly from (L) and (V):

$$*HP = \frac{LV}{33{,}000}$$

$$\text{For a known HP, } T = \frac{63025 \times HP}{RPM}$$

For NON-METALLIC GEARS, the modified Lewis Formula shown below may be used with (S) values of 6000 PSI for Phenolic Laminated material.

$$L = \frac{SFY}{DP}\left(\frac{150}{200 + V} + .25\right)$$

* Apply SERVICE FACTOR (table three) for required horsepower.

Gear Standards

Table One

(S) Average values in pounds per square inch

Material	S
Steel — .40 Carbon — .20 Carbon	25000 20000
Steel — .40 Carbon Heat Treated Cast Iron	35000 12000
Bronze Non-Metallic	10000 6000

Table Two

Outline factor Y for use with Diametral Pitch

Number of Teeth	14½ P.A. Involute	20 P.A. Involute	Number of Teeth	14½ P.A. Involute	20 P.A. Involute
10	.176	.201	26	.308	.344
11	.192	.226	28	.314	.352
12	.210	.245	30	.318	.358
13	.223	.264	35	.327	.373
14	.235	.276	40	.336	.389
15	.245	.289	45	.340	.399
16	.255	.295	50	.346	.408
17	.264	.302	60	.355	.421
18	.270	.308	70	.360	.429
19	.277	.314	80	.363	.436
20	.283	.320	90	.366	.442
21	.289	.326	100	.368	.446
22	.292	.330	150	.375	.458
23	.296	.333	200	.378	.463
24	.302	.337	RACK	.390	.484
25	.305	.340			

Table Three

Service factors

Multiply required horsepower by service factor recommended for type of service

Type of Load	Intermittent or 3 Hours per Day	8-10 Hours per Day	Continuous 24 Hours per Day
UNIFORM LIGHT SHOCK	0.80 1.00	1.00 1.25	1.25 1.50
MEDIUM SHOCK HEAVY SHOCK	1.25 1.50	1.50 1.80	1.80 2.00

Spur Gear Dimensional Formulas Diametral Pitch

Rules and Formulas For Spur Gear Calculations

Diametral Pitch
Diametral Pitch is the Number of Teeth to Each Inch of the Pitch Diameter.

To Find	Having	Rule	Formula
The Diametrical Pitch	The Circular Pitch	Divide 3.1416 by the Circular Pitch	$DP = \frac{3.1416}{CP}$
The Diametrical Pitch	The Pitch Diameter and the Number of Teeth	Divide the Number of Teeth by Pitch Diameter	$DP = \frac{N}{PD}$
The Diametrical Pitch	The Outside Diameter and Number of Teeth	Divide the Number of Teeth plus 2 by Outside Diameter	$DP = \frac{N+2}{D}$
Pitch Diameter	The Number of Teeth and the Diametral Pitch	Divide Number of Teeth by the Diametral Pitch	$PD = \frac{N}{DP}$
Pitch Diameter	The Number of Teeth and Outside Diameter	Divide the product of Outside Diameter and Number of Teeth by Number of Teeth plus 2	$PD = \frac{OD \times N}{N+2}$
Pitch Diameter	The Outside Diameter and the Diametral Pitch	Subtract from the Outside Diameter the Quotient of 2 Divided by the Diametral Pitch	$PD = OD - (2 \div DP)$
Pitch Diameter	Addendum and the Number of Teeth	Multiply Addendum by the Number of Teeth	$PD = s \times N$
Outside Diameter	The Number of Teeth and the Diametral Pitch	Divide number of Teeth plus 2 by the Diametral Pitch	$OD = \frac{N+2}{DP}$
Outside Diameter	The Pitch Diameter and the Diametral Pitch	Add to the Pitch Diameter the quotient of 2 divided by the Diametral Pitch	$D = PD + \frac{2}{P}$
Outside Diameter	The Pitch Diameter and the Number of Teeth	Divide the Number of Teeth plus 2 by the quotient of Number of Teeth divided by Pitch Diameter	$D = \frac{N+2}{N \div PD}$
Outside Diameter	The Number of Teeth and Addendum	Multiply the Number of Teeth plus 2 by Addendum	$D = (N+2)A$
Number of Teeth	The Pitch Diameter and the Diametral Pitch	Multiply the Pitch Diameter by the Diametral Pitch	$N = PD \times DP$
Number of Teeth	The Outside Diameter and the Diametral Pitch	Multiply Outside Diameter by the Diametral Pitch and subtract 2	$N = DP - 2$
Thickness of Tooth	The Diametral Pitch	Divide 1.5708 by the Diametral Pitch	$t = \frac{1.5708}{DP}$
Addendum	The Diametral Pitch	Divide 1 by the Diametral Pitch	$A = \frac{1}{DP}$
Dedendum	The Diametral Pitch	Divide 1.157 by the Diametral Pitch	$A+L = \frac{1.157}{DP}$
Working Depth	The Diametral Pitch	Divide 2 by the Diametral Pitch	$WD = \frac{2}{DP}$
Whole Depth	The Diametral Pitch	Divide 2.157 by the Diametral Pitch	$WD = \frac{2.157}{DP}$
Clearance	The Diametral Pitch	Divide .157 by the Diametral Pitch	$L = \frac{.157}{DP}$
Clearance	Thickness of Tooth	Divide Thickness of Tooth at Pitch Line by 10	$L = \frac{t}{10}$

NOTE: Rules and Formulas Relating to Tooth Depth and Outside Diameter Apply to Full-Depth, Equal Addendum Gears.

Diametral Pitch Tooth Dimensions

Dimensions of Standard Full-depth Teeth

Diametral Pitches and Equivalent Circular Pitches

Diametral Pitch	Circular Pitch	Module	Arc Thickness of Tooth on Pitch Line	Addendum	Working Depth of Tooth	Dedendum or Depth of Space Below Pitch Line	Whole Depth of Tooth*
½	6.2832	50.8	3.1416	2.0000	4.0000	2.3142	4.3142
¾	4.1888	33.8667	2.0944	1.3333	2.6666	1.5428	2.8761
1	3.1416	25.4	1.5708	1.0000	2.0000	1.1571	2.1571
1¼	2.5133	20.32	1.2566	0.8000	1.6000	0.9257	1.7257
1½	2.0944	16.9333	1.0472	0.6666	1.3333	0.7714	1.4381
1¾	1.7952	14.5143	0.8976	0.5714	1.1429	0.6612	1.2326
2	1.5708	12.7	0.7854	0.5000	1.0000	0.5785	1.0785
2¼	1.3963	11.2889	0.6981	0.4444	0.8888	0.5143	0.9587
2½	1.2566	10.16	0.6283	0.4000	0.8000	0.4628	0.8628
2¾	1.1424	9.2364	0.5712	0.3636	0.7273	0.4208	0.7844
3	1.0472	8.4667	0.5236	0.3333	0.6666	0.3857	0.7190
3½	0.8976	7.2571	0.4488	0.2857	0.5714	0.3306	0.6163
4	0.7854	6.35	0.3927	0.2500	0.5000	0.2893	0.5393
5	0.6283	5.08	0.3142	0.2000	0.4000	0.2314	0.4314
6	0.5236	4.2333	0.2618	0.1666	0.3333	0.1928	0.3595
7	0.4488	3.6286	0.2244	0.1429	0.2857	0.1653	0.3081
8	0.3927	3.175	0.1963	0.1250	0.2500	0.1446	0.2696
9	0.3491	2.8222	0.1745	0.1111	0.2222	0.1286	0.2397
10	0.3142	2.54	0.1571	0.1000	0.2000	0.1157	0.2157
11	0.2856	2.3091	0.1428	0.0909	0.1818	0.1052	0.1961
12	0.2618	2.1167	0.1309	0.0833	0.1666	0.0964	0.1798
13	0.2417	1.9538	0.1208	0.0769	0.1538	0.0890	0.1659
14	0.2244	1.8143	0.1122	0.0714	0.1429	0.0826	0.1541
15	0.2094	1.6933	0.1047	0.0666	0.1333	0.0771	0.1438
16	0.1963	1.5875	0.0982	0.0625	0.1250	0.0723	0.1348
17	0.1848	1.4941	0.0924	0.0588	0.1176	0.0681	0.1269
18	0.1745	1.4111	0.0873	0.0555	0.1111	0.0643	0.1198
19	0.1653	1.3368	0.0827	0.0526	0.1053	0.0609	0.1135
20	0.1571	1.27	0.0785	0.0500	0.1000	0.0579	0.1079
22	0.1428	1.1545	0.0714	0.0455	0.0909	0.0526	0.0980
24	0.1309	1.0583	0.0654	0.0417	0.0833	0.0482	0.0898
26	0.1208	0.9769	0.0604	0.0385	0.0769	0.0445	0.0829
28	0.1122	0.9071	0.0561	0.0357	0.0714	0.0413	0.0770
30	0.1047	0.8467	0.0524	0.0333	0.0666	0.0386	0.0719
32	0.0982	0.7938	0.0491	0.0312	0.0625	0.0362	0.0674
34	0.0924	0.7471	0.0462	0.0294	0.0588	0.0340	0.0634
36	0.0873	0.7056	0.0436	0.0278	0.0555	0.0321	0.0599
38	0.0827	0.6684	0.0413	0.0263	0.0526	0.0304	0.0568
40	0.0785	0.635	0.0393	0.0250	0.0500	0.0289	0.0539

*NOTE: Dimensions listed are for HOB CUT TEETH ONLY. Shaper cut teeth may be slightly larger. Consult factory for exact measurement.

All Gears In Stock Are Diametral Pitch

Spur Gear Dimensional Formulas Circular Pitch

Rules and Formulas For Spur Gear Calculations

Circular Pitch

Circular Pitch is the Distance from the Center of One Tooth to the Center of the Next Tooth, Measured Along the Pitch Circle.

To Find	Having	Rule	Formula
The Circular Pitch	The Diametral Pitch	Divide 3.1416 by the Diametral Pitch	$CP = \frac{3.1416}{DP}$
The Circular Pitch	The Pitch Diameter and the Number of Teeth	Divide Pitch Diameter by the product of .3183 and Number of Teeth	$CP = \frac{PD}{.3183N}$
The Circular Pitch	The Outside Diameter and the Number of Teeth	Divide Outside Diameter by the product of .3183 and Number of Teeth plus 2	$CP = \frac{OD}{.3183\ N + 2}$
Pitch Diameter	The Number of Teeth and the Circular Pitch	The continued product of the Number of Teeth, the Circular Pitch and .3183	PD = N X CP .3183
Pitch Diameter	The Number of Teeth and the Outside Diameter	Divide the product of Number of Teeth and Outside Diameter by Number of Teeth plus 2	$PD = \frac{N \times OD}{N + 2}$
Pitch Diameter	The Outside Diameter and the Circular Pitch	Subtract from the Outside Diameter the product of the Circular Pitch and .6366	PD = OD – (CP .6366)
Pitch Diameter	Addendum and the Number of Teeth	Multiply the Number of Teeth by the Addendum	PD = NA
Outside Diameter	The Number of Teeth and the Circular Pitch	The continued product of the Number of Teeth plus 2, the Circular Pitch and .3183	D = (N + 2) CP .3183
Outside Diameter	The Pitch Diameter and the Circular Pitch	Add to the Pitch Diameter the product of the Circular Pitch and .6366	D = PD + (CP .6366)
Outside Diameter	The Number of Teeth and the Addendum	Multiply Addendum by Number of Teeth plus 2	D = A (N + 2)
Number of Teeth	The Pitch Diameter and the Circular Pitch	Divide the product of Pitch Diameter and 3.1416 by the Circular Pitch	$N = \frac{PD\ 3.1416}{CP}$
Thickness of Tooth	The Circular Pitch	One-half the Circular Pitch	$t = \frac{CP}{2}$
Addendum	The Circular Pitch	Multiply the Circular Pitch by .3183 or $s = \frac{DP}{N}$	$A = CP \times .3183$
Dedendum	The Circular Pitch	Multiply the Circular Pitch by .3683	$A + L = CP \times .3683$
Working Depth	The Circular Pitch	Multiply the Circular Pitch by .6366	$WD = CP \times .6366$
Whole Depth	The Circular Pitch	Multiply the Circular Pitch by .6866	$D = CP \times .6866$
Clearance	The Circular Pitch	Multiply the Circular Pitch by .05	$L = C \times .05$
Clearance	Thickness of Tooth	One-Tenth theThickness of Tooth at Pitch Line	$L = \frac{t}{10}$

NOTE: Rules and Formulas Relating to Tooth Depth and Outside Diameter Apply to Full-Depth, Equal Addendum Gears.

Circular Pitch Gears Made To Order Only

Circular Pitch
Tooth Dimensions

Dimensions of Standard Full-depth Teeth

Circular Pitches and Equivalent Diametral Pitches

Circular Pitch	Diametral Pitch	Module	Arc Thickness of Tooth on Pitch Line	Addendum	Working Depth of Tooth	Dedendum or Depth of Space Below Pitch Line	Whole Depth of Tooth
4	0.7854	32.3402	2.0000	1.2732	2.5464	1.4732	2.7464
3½	0.8976	28.2581	1.7500	1.1140	2.2281	1.2890	2.4031
3	1.0472	24.2552	1.5000	0.9549	1.9098	1.1049	2.0598
2¾	1.1424	22.2339	1.3750	0.8753	1.7506	1.0128	1.8881
2½	1.2566	20.2117	1.2500	0.7957	1.5915	0.9207	1.7165
2¼	1.3963	18.1913	1.1250	0.7162	1.4323	0.8287	1.5448
2	1.5708	16.1701	1.0000	0.6366	1.2732	0.7366	1.3732
1⅞	1.6755	15.1595	0.9375	0.5968	1.1937	0.6906	1.2874
1¾	1.7952	14.1488	0.8750	0.5570	1.1141	0.6445	1.2016
1⅝	1.9333	13.1382	0.8125	0.5173	1.0345	0.5985	1.1158
1½	2.0944	12.1276	0.7500	0.4775	0.9549	0.5525	1.0299
1⅞	2.1855	11.6223	0.7187	0.4576	0.9151	0.5294	0.9870
1⅜	2.2848	11.1169	0.6875	0.4377	0.8754	0.5064	0.9441
1⅝	2.3936	10.6116	0.6562	0.4178	0.8356	0.4834	0.9012
1¼	2.5133	10.1062	0.6250	0.3979	0.7958	0.4604	0.8583
1⅜	2.6456	9.6010	0.5937	0.3780	0.7560	0.4374	0.8154
1⅛	2.7925	9.0958	0.5625	0.3581	0.7162	0.4143	0.7724
1⅛	2.9568	8.5904	0.5312	0.3382	0.6764	0.3913	0.7295
1	3.1416	8.0851	0.5000	0.3183	0.6366	0.3683	0.6866
15/16	3.3510	7.5798	0.4687	0.2984	0.5968	0.3453	0.6437
⅞	3.5904	7.0744	0.4375	0.2785	0.5570	0.3223	0.6007
13/16	3.8666	6.5692	0.4062	0.2586	0.5173	0.2993	0.5579
¾	4.1888	6.0639	0.3750	0.2387	0.4775	0.2762	0.5150
11/16	4.5696	5.5586	0.3437	0.2189	0.4377	0.2532	0.4720
⅔	4.7124	5.3903	0.3333	0.2122	0.4244	0.2455	0.4577
⅝	5.0265	5.0532	0.3125	0.1989	0.3979	0.2301	0.4291
9/16	5.5851	4.5479	0.2812	0.1790	0.3581	0.2071	0.3862
½	6.2832	4.0426	0.2500	0.1592	0.3183	0.1842	0.3433
7/16	7.1808	3.5373	0.2187	0.1393	0.2785	0.1611	0.3003
⅖	7.8540	3.2340	0.2000	0.1273	0.2546	0.1473	0.2746
⅜	8.3776	3.0319	0.1875	0.1194	0.2387	0.1381	0.2575
⅓	9.4248	2.6947	0.1666	0.1061	0.2122	0.1228	0.2289
5/16	10.0531	2.5266	0.1562	0.0995	0.1989	0.1151	0.2146
2/7	10.9956	2.3100	0.1429	0.0909	0.1819	0.1052	0.1962
¼	12.5664	2.0213	0.1250	0.0796	0.1591	0.0921	0.1716
2/9	14.1372	1.7967	0.1111	0.0707	0.1415	0.0818	0.1526
⅛	15.7080	1.6170	0.1000	0.0637	0.1273	0.0737	0.1373
3/16	16.7552	1.5160	0.0937	0.0597	0.1194	0.0690	0.1287
⅙	18.8496	0.5053	0.0833	0.0531	0.1061	0.0614	0.1144

All Circular Pitch Gears Are Made-To-Order

Spur Gear Dimensional Formulas Module

Rules and Formulas
For Module (Metric) Spur Gear Calculations

(Module Represents the Amount of Pitch Diameter per Tooth)

To Find	Having	Rule	Formula
Metric Module	Pitch Diameter and Number of Teeth	Divide Pitch Diameter in Millimeters by the Number of Teeth	$M = \frac{PD\ (Millimeters)}{N}$
Metric Module	Circular Pitch in Millimeter	Divide Circular Pitch in Millimeters by Pi (3.1416)	$M = \frac{C\ (Millimeters)}{3.1416}$
Metric Module	Diametral Pitch	Divide 25.4 by Diametral Pitch	$M = \frac{25.4}{DP}$
Metric Module	Outside Diameter and Number of Teeth	Divide Outside Diameter (in Millimeters) by the Number of Teeth plus 2	$M = \frac{OD}{N + 2}$
Pitch Diameter	Module and Number of Teeth	Multiply Module by Number of Teeth	PD (In MM)= M × N
Pitch Diameter	Number of Teeth and Outside Diameter	Divide the product of Outside Diameter and No. of Teeth by No. of Teeth plus 2	$PD = \frac{OD \times N}{N + 2}$
Pitch Diameter	Outside Diameter and the Module	Multiply Module by 2 and Subtract from Outside Diameter	PD = OD - 2M
Outside Diameter	Module and Number of Teeth	Number of Teeth plus 2 Multiplied by Module	OD (In MM) = (N + 2) x M
Diametral Pitch	Module	Divide 25.4 by Module	$DP = \frac{25.4}{M}$
Circular Pitch	Module	Multiply Module by Pi (3.1416)	CP (In MM) = M × 3.1416
Addendum	Module Known	The Addendum equals the Module	A = M
Whole Depth	Module Known	Multiply 2.157 by Module	WD (In MM) = 2.157 × M
Thickness of Tooth	Module and Outside Diameter	Multiply Pitch Diameter (in Millimeters) by the Sine of the Angle of 90 Divided by the Number of Teeth	$t\ (In\ MM) = PD\ (MM) \times Sine\ \frac{90}{N}$
English Module	Pitch Diameter in Inches and Number of Teeth	Divide Pitch Diameter in Inches by Number of Teeth	$M = \frac{PD\ (Inches)}{N}$ (Answer in Fraction)

NOTE: Rules and Formulas Relating to Tooth Depth and Outside Diameter Apply to Full-Depth, Equal Addendum Gears.

Module Pitch
Tooth Dimensions

Tooth Dimensions Based Upon Module System

(One millimeter equals 0.03937 inch)

Module, DIN Standard Series	Equivalent Diametral Pitch	Circular Pitch		Addendum, Millimeters	Dedendum, Millimeters†	Whole Depth,† Millimeters	Whole Depth,‡ Millimeters
		Millimeters	Inches				
0.30	84.667	0.943	0.0371	0.30	0.350	0.650	0.647
0.40	63.500	1.257	0.0495	0.40	0.467	0.867	0.863
0.50	50.800	1.571	0.0618	0.50	0.583	1.083	1.079
0.60	42.333	1.885	0.0742	0.60	0.700	1.300	1.294
0.70	36.286	2.199	0.0865	0.70	0.817	1.517	1.510
0.80	31.750	2.513	0.0989	0.80	0.933	1.733	1.726
0.90	28.222	2.827	0.1113	0.90	1.050	1.950	1.941
1.00	25.400	3.142	0.1237	1.00	1.167	2.167	2.157
1.25	20.320	3.927	0.1546	1.25	1.458	2.708	2.697
1.50	16.933	4.712	0.1855	1.50	1.750	3.250	3.236
1.75	14.514	5.498	0.2164	1.75	2.042	3.792	3.774
2.00	12.700	6.283	0.2474	2.00	2.333	4.333	4.314
2.25	11.289	7.069	0.2783	2.25	2.625	4.875	4.853
2.50	10.160	7.854	0.3092	2.50	2.917	5.417	5.392
2.75	9.236	8.639	0.3401	2.75	3.208	5.958	5.932
3.00	8.466	9.425	0.3711	3.00	3.500	6.500	6.471
3.25	7.815	10.210	0.4020	3.25	3.791	7.041	7.010
3.50	7.257	10.996	0.4329	3.50	4.083	7.583	7.550
3.75	6.773	11.781	0.4638	3.75	4.375	8.125	8.089
4.00	6.350	12.566	0.4947	4.00	4.666	8.666	8.628
4.50	5.644	14.137	0.5566	4.50	5.250	9.750	9.707
5.00	5.080	15.708	0.6184	5.00	5.833	10.833	10.785
5.50	4.618	17.279	0.6803	5.50	6.416	11.916	11.864
6.00	4.233	18.850	0.7421	6.00	7.000	13.000	12.942
6.50	3.908	20.420	0.8035	6.50	7.583	14.083	14.021
7.00	3.628	21.991	0.8658	7.00	8.166	15.166	15.099
8.00	3.175	25.132	0.9895	8.00	9.333	17.333	17.256
9.00	2.822	28.274	1.1132	9.00	10.499	19.499	19.413
10.00	2.540	31.416	1.2368	10.00	11.666	21.666	21.571
11.00	2.309	34.558	1.3606	11.00	12.833	23.833	23.728
12.00	2.117	37.699	1.4843	12.00	14.000	26.000	25.884
13.00	1.954	40.841	1.6079	13.00	15.166	28.166	28.041
14.00	1.814	43.982	1.7317	14.00	16.332	30.332	30.198
15.00	1.693	47.124	1.8541	15.00	17.499	32.499	32.355
16.00	1.587	50.266	1.9790	16.00	18.666	34.666	34.512
18.00	1.411	56.549	2.2263	18.00	21.000	39.000	38.826
20.00	1.270	62.832	2.4737	20.00	23.332	43.332	43.142
22.00	1.155	69.115	2.7210	22.00	25.665	47.665	47.454
24.00	1.058	75.398	2.9685	24.00	28.000	52.000	51.768
27.00	0.941	84.823	3.339	27.00	31.498	58.498	58.239
30.00	0.847	94.248	3.711	30.00	35.000	65.000	64.713
33.00	0.770	103.673	4.082	33.00	38.498	71.498	71.181
36.00	0.706	113.097	4.453	36.00	41.998	77.998	77.652
39.00	0.651	122.522	4.824	39.00	45.497	84.497	84.123
42.00	0.605	131.947	5.195	42.00	48.997	90.997	90.594
45.00	0.564	141.372	5.566	45.00	52.497	97.497	97.065
50.00	0.508	157.080	6.184	50.00	58.330	108.330	107.855
55.00	0.462	172.788	6.803	55.00	64.163	119.163	118.635
60.00	0.423	188.496	7.421	60.00	69.996	129.996	129.426
65.00	0.391	204.204	8.040	65.00	75.829	140.829	140.205
70.00	0.363	219.911	8.658	70.00	81.662	151.662	150.997
75.00	0.339	235.619	9.276	75.00	87.495	162.495	161.775

† Dedendum and total depth when clearance = 0.1666 x module, or one-sixth module.
‡ Total Depth equivalent to American standard full-depth teeth. (Clearance = 0.157 x Module.)

Bevel & Miter Gear Formulas

To Find	Rule	Formula
Pitch Diameter	Divide Number of Teeth by Diametral Pitch	$\text{Pitch Diameter} = \frac{\text{Number of Teeth}}{\text{Diametral Pitch}}$
Tangent of Pitch Angle Of Driven	Divide Number of Teeth in Driven by Number of Teeth in Driver	$\text{Tangent Pitch Angle of Driven} = \frac{\text{Number of Teeth in Driven}}{\text{Number of Teeth in Driver}} = \text{Ratio}$
Pitch Angle of Driver	Subtract Pitch Angle of Driven from 90 Degrees	Pitch Angle Of Driver = 90 Degrees - Pitch Angle of Driven
Pitch Cone Radius	Divide Pitch Diameter by Twice the Sine of the Pitch Angle	$\text{Pitch Cone Radius} = \frac{\text{Pitch Diamter}}{2 \times \text{Sine Pitch Angle}}$
Tangent of Addendum Angle	Divide Addendum by the Pitch Cone Radius	$\text{Tangent of Addendum Angle} = \frac{\text{Addendum}}{\text{Pitch Cone Radius}}$
Face Angle	Add Addendum Angle to Pitch Angle	Face Angle = Addendum Angle + Pitch Angle
Tangent of Dedendum Angle	Divide Dedendum by the Pitch Cone Radius	$\text{Tangent of Dedendum Angle} = \frac{\text{Dedendum}}{\text{Pitch Cone Radius}}$
Root Angle	Subtract Dedendum Angle from Pitch Angle	Root Angle = Pitch Angle - Dedendum Angle
Angular Addendum	Multiply Addendum by Cosine of Pitch Angle	Angular Addendum = Addendum × Cosine Pitch Angle
Outside Diameter	Add 2 Angular Addenda to Pitch Diameter	Outside Diameter = 2 Angular Addenda × Pitch Diamter
Mounting Distance	Add one-half the Pitch Diameter of Mating to Pitch Line	$\text{Mounting Distance} = \frac{\text{Pitch Diameter of Mate}}{2} + \text{Backing to Pitch Line}$
Distance From Cone Center to Crown	Multiply one-half Outside Diameter by Co-tangent of Face Angle	$\text{Cone Center to Crown} = \frac{\text{Outside Diameter}}{2} \times \text{Co-Tangent Face Angle}$
Backing to Crown	Subtract Cone Center to Crown from Mounting Distance	Backing to Crown = Mounting Distance - Cone Center to Crown
Ratio	Divide Teeth in Driven by Teeth in Driver	$\text{Ratio} = \frac{\text{Number of Teeth in Driven}}{\text{Number of Teeth in Driver}}$

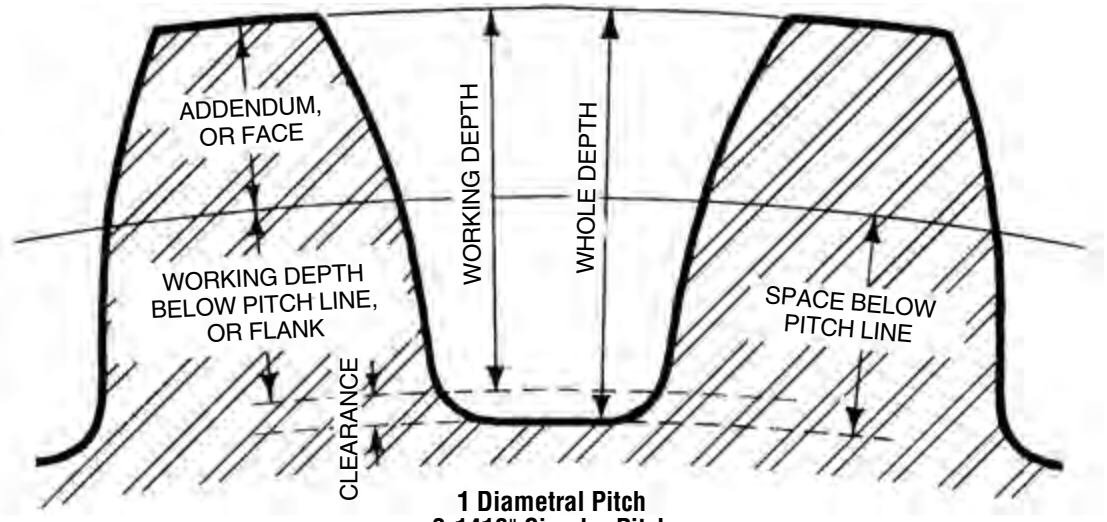
Formula For Worm Gears

(Based On Diametral Pitch)

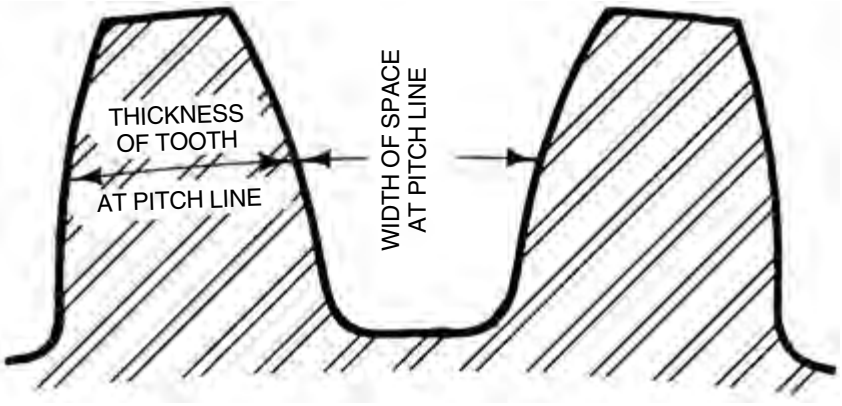
To Find	Rule	Formula
Worm Gear Pitch Diameter	Divide Number of Teeth by Diametral Pitch	$\text{Pitch Diameter} = \frac{\text{Number of Teeth in Worm Gear}}{\text{Diametral Pitch}}$
Worm Gear Throat Diameter	Add 2 Addenda to Pitch Diameter	$\text{Throat Diameter} = (2 \times \text{Addendum}) + \text{Pitch Diameter}$
Worm Gear Outside Diameter	Add 3 Addenda to Pitch Diameter	$\text{Outside Diameter} = (3 \times \text{Addendum}) + \text{Pitch Diameter}$
Worm Pitch Diameter	Subtract the Worm Gear Pitch Diameter from Twice the Center Distance	$\text{Worm Pitch Diameter} = (2 \times \text{Center Distance}) - \text{Worm Gear Pitch Diameter}$
Worm Outside Diameter	Add 2 Addenda to Worm Pitch Diameter	$\text{Worm Outside Diameter} = \text{Worm Pitch Diameter} + 2 \times \text{Addendum}$
Worm Lead	Divide 3.1416 by Diametral Pitch and Multiply by Number of Threads in Worm	$\text{Worm Lead} = \frac{3.1416}{\text{Diametral Pitch}} \times \text{Number of Threads in Worm}$
Co-Tangent of Worm Helix Angle	Multiply Worm Pitch Diameter by Diametral Pitch and Divide by Number of Worm Threads	$\text{Co-Tangent Worm Helix Angle} = \frac{\text{Worm Pitch Diameter} \times \text{Diametral Pitch}}{\text{Number Worm Threads}}$
Center Distance	Add Worm Pitch Diameter to Worm Gear Pitch Diameter and Divide Sum by 2	$\text{Center Distance} = \frac{\text{Worm Pitch Diameter} + \text{Worm Gear Pitch Diameter}}{2}$
Ratio	Divide Number of Teeth in Worm Gear by Number of Worm Threads	$\text{Ratio} = \frac{\text{Number of Teeth in Worm Gear}}{\text{Number of Worm Threads}}$

NOTE: Tooth data (Addendum, Full Depth, Etc.) is same as for Spur Gears.

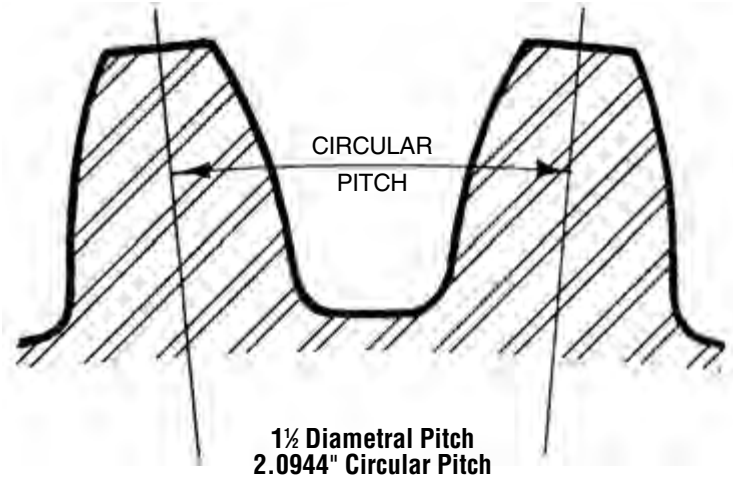
Comparative Sizes of Involute Gear Teeth



1 Diametral Pitch
3.1416" Circular Pitch



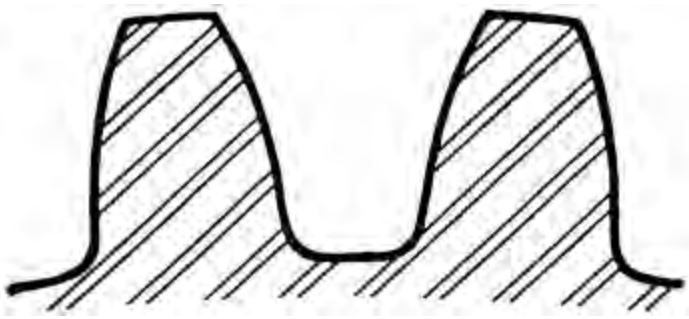
1¼ Diametral Pitch
2.5133" Circular Pitch



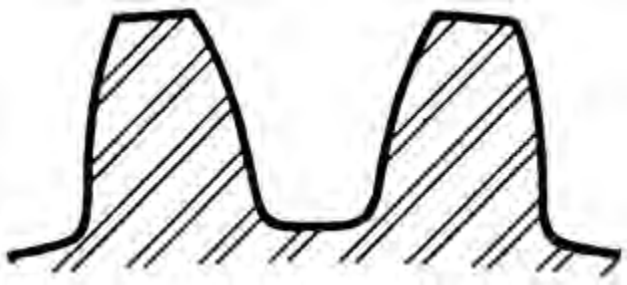
1½ Diametral Pitch
2.0944" Circular Pitch

Cut Spur Gears
14½° P.A.

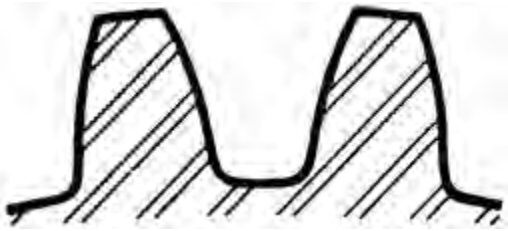
Comparative Sizes of Involute Gear Teeth



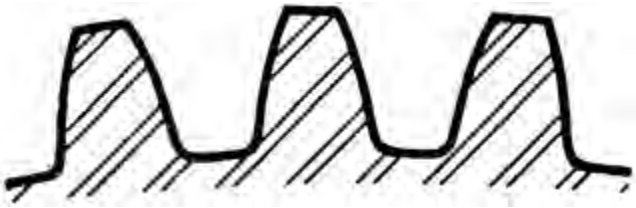
1¾ Diametral Pitch
1.7952" Circular Pitch



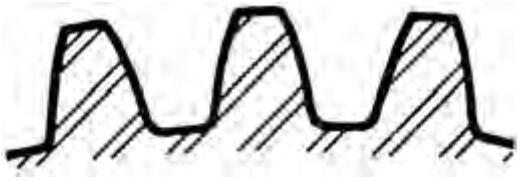
2 Diametral Pitch
1.5708" Circular Pitch



2½ Diametral Pitch
1.2566" Circular Pitch



3 Diametral Pitch
1.0472" Circular Pitch



3½ Diametral Pitch
.8976" Circular Pitch



4 Diametral Pitch
.7854" Circular Pitch



5 Diametral Pitch
.6283" Circular Pitch



6 Diametral Pitch
.5236" Circular Pitch

Comparative Sizes of Involute Gear Teeth



7 Diametral Pitch
.4488" Circular Pitch



8 Diametral Pitch
.3927" Circular Pitch



10 Diametral Pitch
.3142" Circular Pitch



12 Diametral Pitch
.2618" Circular Pitch



14 Diametral Pitch
.2244" Circular Pitch



16 Diametral Pitch
.1963" Circular Pitch

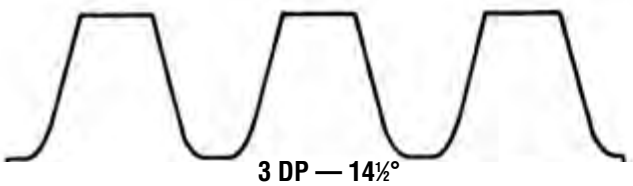


18 Diametral Pitch
.1745" Circular Pitch

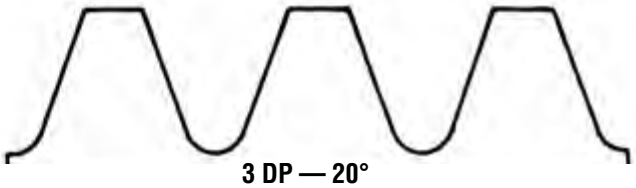


20 Diametral Pitch
.1571" Circular Pitch

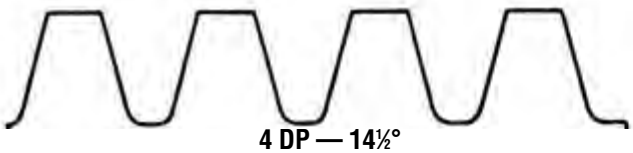
Gear Rack Comparison — 14½ and 20°



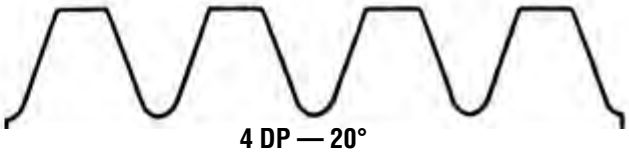
3 DP — 14½°



3 DP — 20°



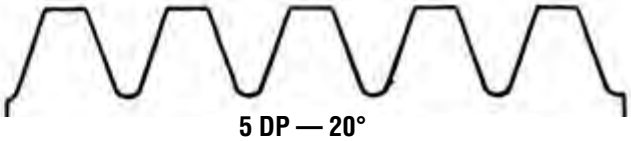
4 DP — 14½°



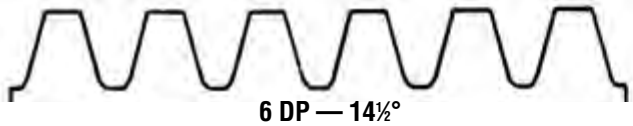
4 DP — 20°



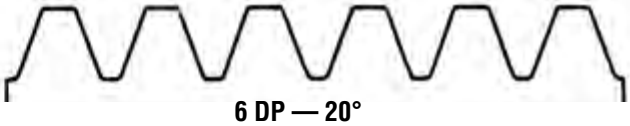
5 DP — 14½°



5 DP — 20°



6 DP — 14½°



6 DP — 20°

Gear Materials

Stock Steel Gears

Martin steel gears are manufactured from high quality carbon steel material. This material is used for strength and good hardening characteristics. These gears may be hardened by any method acceptable to good practice such as flame or induction hardening. Flame hardening is preferred so that only the teeth are hardened. Distortion is virtually eliminated and the bore is left soft for subsequent work.

Cast Gears

Martin cast iron gears are manufactured from high quality close grained controlled specification irons.

Reboring of Stock Gears

Most of Martin's Stock Gears may be rebored. The maximum recommended bore size is given for each gear. In reboring gears, care must be taken to hold the bore concentric with the pitch diameter. In most cases this would require a great amount of time. To cut costly set-up time when reboring, Martin holds the outside diameter of its gears concentric with the bore which in turn is concentric with the pitch diameter. The outside diameter is held to a closer total indicator reading than the pitch diameter. In the finer pitches, care should be taken not to distort the outside diameter when chucking.

Martin's steel gears are machined all over.

Rebore or rework may be accomplished by chucking on the hub. Concentricity must be controlled in order for gears to run at maximum efficiency.

MATERIAL HANDLING

PRODUCT **PAGE**

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ENGINEERING H-3

DESIGN AND LAYOUT H-35

COMPONENTS H-49

SPECIAL FEATURES H-107

INSTALLATION AND MAINTENANCE H-120

BUCKET ELEVATORS . . . . . H-123 — H-141

DRAG CONVEYORS . . . . . H-142 — H-156

VERTICAL SCREW ELEVATOR . . . . . H-157 — H-165

MODULAR PLASTIC SCREW CONVEYORS . . . . . H-166 — H-169

SHAFTLESS SCREW CONVEYOR . . . . . H-170 — H-172

DATA SHEETS . . . . . H-174 — H-176

Stock & MTO Screw Conveyor Components

Screw Conveyor Components and Accessories



ANGLE FLANGED "U" TROUGH



FORMED FLANGED "U" TROUGH



TUBULAR HOUSING



FLAT RACK AND PINION DISCHARGE GATE



TROUGH ENDS WITH AND WITHOUT FEET



THRUST ASSEMBLY TYPE E WITH DRIVE SHAFT



INLET AND DISCHARGE SPOUTS



SPLIT GLAND



PACKING GLAND SHAFT SEAL COMPRESSION TYPE



WASTE PACK SHAFT SEAL



PLATE SHAFT SEAL



DROP-OUT SHAFT SEAL FLANGED PRODUCT



HELICOID SCREWS



HELICOID FLIGHTING RIGHT HAND AND LEFT HAND



SHAFTLESS SCREWS



SECTIONAL SCREWS



SPECIAL SCREWS



SECTIONAL FLIGHTS



COUPLING SHAFTS



ELEVATOR BUCKETS



HANGER STYLE 220



HANGER STYLE 226



HANGER STYLE 216



HANGER STYLE 70



HANGER STYLE 19B



TROUGH END BEARING BALL AND ROLLER



HANGER BEARINGS STYLE 220/226

Martin HARD IRON

Martin BRONZE

NYLATRON

WHITE NYLON

WOOD

CERAMIC



SADDLES AND FEET



SCREW CONVEYOR DRIVE WITH ACCESSORIES



SPEED REDUCER SHAFT MOUNTED WITH ACCESSORIES



FLANGED COVER WITH ACCESSORIES

Martin manufacturers the most complete line of stock components in the industry. We stock mild steel, stainless, galvanized, and many other items that are “special order” from the others in the industry.

PAGE

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Screw Conveyor Design Procedure H-4
Material Classification ode Chart H-5
Material Characteristics Tables H-6
Selection of Conveyor Size and Speed H-16
Capacity Factor Tables H-17
Capacity Table H-18
Lump Size Limitations and Table H-19
Component Group Selection H-20
Hanger Bearing Selection H-22
Horsepower Calculation H-23
Torsional Ratings of Conveyor Components H-26
Horsepower Ratings of Conveyor Components H-27
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Inclined and Vertical Screw Conveyors H-31
Screw Feeders H-32
Appendix General Engineering Information *i*-1

Introduction

The following section is designed to present the necessary engineering information to properly design and layout most conveyor applications. The information has been compiled from many years of experience in successful design and application and from industry standards.

We hope that the information presented will be helpful to you in determining the type and size of screw conveyor that will best suit your needs.

The “Screw Conveyor Design Procedure” on the following page gives ten step-by-step instructions for properly designing a screw conveyor. These steps, plus the many following tables and formulas throughout the engineering section will enable you to design and detail screw conveyor for most applications.

If your requirements present any complications not covered in this section, we invite you to contact our Engineering Department for recommendations and suggestions.

Screw Conveyor Design Procedure		
STEP 1	Establish Known Factors	1. Type of material to be conveyed. 2 . Maximum size of hard lumps. 3 . Percentage of hard lumps by volume. 4 . Capacity required, in cu.ft./hr. 5 . Capacity required, in lbs./hr. 6 . Distance material to be conveyed. 7. Any additional factors that may affect conveyor or operations.
STEP 2	Classify Material	Classify the material according to the system shown in Table 1-1. Or, if the material is included in Table 1-2, use the classification shown in Table 1-2.
STEP 3	Determine Design Capacity	Determine design capacity as described on pages H-16–H-18.
STEP 4	Determine Diameter and Speed	Using known capacity required in cu.ft./hr., material classification, and % trough loading (Table 1-2) determine diameter and speed from Table 1-6.
STEP 5	Check Minimum Screw Diameter for Lump Size Limitations	Using known screw diameter and percentage of hard lumps, check minimum screw diameter from Table 1-7.
STEP 6	Determine Type of Bearings	From Table 1-2, determine hanger bearing group for the material to be conveyed. Locate this bearing group in Table 1-11 for the type of bearing recommended.
STEP 7	Determine Horsepower	From Table 1-2, determine Horsepower Factor "Fm" for the material to be conveyed. Refer to page H-23 and calculate horsepower by the formula method.
STEP 8	Check Torsional and/or Horsepower ratings of Standard Conveyor Components	Using required horsepower from step 7 refer to pages H-26 and H-27 to check capacities of standard conveyor pipe, shafts and coupling bolts.
STEP 9	Select Components	Select basic components from Tables 1-8, 1-9, and 1-10 in accordance with Component Group listed in Table 1-2 for the material to be conveyed. Select balance of components from the Components Section of catalog.
STEP 10	Conveyor Layouts	Refer to pages H-39 and H-40 for typical layout details.

Table 1-1
Material Classification Code Chart

Major Class	Material Characteristics Included		Code Designation
Density	Bulk Density, Loose		Actual lbs/PC
Size	Very Fine	No. 200 Sieve (.0029") and Under	A200
		No. 100 Sieve (.0059") and Under	A100
		No. 40 Sieve (.016") and Under	A40
	Fine	No. 6 Sieve (.132") and Under	B6
	Granular	1/2" And Under (6" Sieve to 1/2")	C1/2
		3" And Under (1/2" to 3")	D3
		7" And Under (3" to 7")	D7
	Lumpy	16" And Under (0" to 16")	D16
		Over 16" To Be Specified, X = Actual Maximum Size	DX
	Irregular	Irregular Stringy, Fibrous, Cylindrical, Slabs, Etc.	E
Flowability	Very Free Flowing		1
	Free Flowing		2
	Average Flowability		3
	Sluggish		4
Abrasiveness	Mildly Abrasive		5
	Moderately Abrasive		6
	Extremely Abrasive		7
Miscellaneous Properties or Hazards	Builds Up and Hardens		F
	Generates Static Electricity		G
	Decomposes — Deteriorates in Storage		H
	Flammability		J
	Becomes Plastic or Tends to Soften		K
	Very Dusty		L
	Aerates and Becomes a Fluid		M
	Explosiveness		N
	Stickiness — Adhesion		O
	Contaminable, Affecting Use		P
	Degradable, Affecting Use		Q
	Gives Off Harmful or Toxic Gas or Fumes		R
	Highly Corrosive		S
	Mildly Corrosive		T
	Hygroscopic		U
	Interlocks, Mats or Agglomerates		V
	Oils Present		W
	Packs Under Pressure		X
	Very Light and Fluffy — May Be Windswept		Y
	Elevated Temperature		Z

Table 1-2
Material Characteristics

Material Characteristics

The material characteristics table (page H-7 or H-15) lists the following Design Data for many materials.

A . The weight per cubic foot data may be used to calculate the required capacity of the conveyor in cubic feet per hour.

B . B.The material code for each material is as described in Table 1-1, and as interpreted below.

C . The Intermediate Bearing Selection Code is used to properly select the intermediate hanger bearing from Table 1-11 (Page H-22).

D. The Component Series Code is used to determine the correct components to be used as shown on page H-21.

E . The Material Factor Fm is used in determining horsepower as described on pages H-23 thru H-25.

F. The Trough Loading column indicates the proper percent of cross section loading to use in determining diameter and speed of the conveyor.

For screw conveyor design purposes, conveyed materials are classified in accordance with the code system in Table 1-1, and listed in Table 1-2.

Table 1-2 lists many materials that can be effectively conveyed by a screw conveyor. If a material is not listed in Table 1-2, it must be classified according to Table 1-1 or by referring to a listed material similar in weight, particle size and other characteristics.

HOW TO READ THE MATERIAL CODE

FROM TABLE 1-2

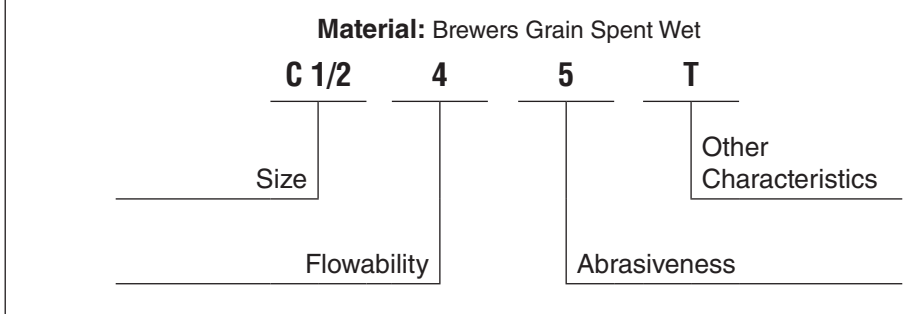


Table 1-2
Material Characteristics

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Adipic Acid	45	A100-35	S	2	.5	30A
Alfalfa Meal	14-22	B6-45WY	H	2	.6	30A
Alfalfa Pellets	41-43	C1/2-25	H	2	.5	45
Alfalfa Seed	10-15	B6-15N	L-S-B	1	.4	45
Almonds, Broken	27-30	C1/2-35Q	H	2	.9	30A
Almonds, Whole Shelled	28-30	C1/2-35Q	H	2	.9	30A
Alum, Fine	45-50	B6-35U	L-S-B	1	.6	30A
Alum, Lumpy	50-60	B6-25	L-S	2	1.4	45
Alumina	55-65	B6-27MY	H	3	1.8	15
Alumina, Fine	35	A100-27MY	H	3	1.6	15
Alumina Sized or Briquette	65	D3-37	H	3	2.0	15
Aluminate Gel (Aluminate Hydroxide)	45	B6-35	H	2	1.7	30A
Aluminum Chips, Dry	7-15	E-45V	H	2	1.2	30A
Aluminum Chips, Oily	7-15	E-45V	H	2	.8	30A
Aluminum Hydrate	13-20	C1/2-35	L-S-B	1	1.4	30A
Aluminum Ore (See Bauxite)	—	—	—	—	—	—
Aluminum Oxide	60-120	A100-17M	H	3	1.8	15
Aluminum Silicate (Andalusite)	49	C1/2-35S	L-S	3	.8	30A
Aluminum Sulfate	45-58	C1/2-25	L-S-B	1	1.0	45
Ammonium Chloride, Crystalline	45-52	A100-45FRS	L-S	3	.7	30A
Ammonium Nitrate	45-62	A40-35NTU	H	3	1.3	30A
Ammonium Sulfate	45-58	C1/2-35FOTU	L-S	1	1.0	30A
Antimony Powder	—	A100-35	H	2	1.6	30A
Apple Pomace, Dry	15	C1/2-45Y	H	2	1.0	30A
Arsenate Of Lead (See Lead Arsenate)	—	—	—	—	—	—
Arsenic Oxide (Arsenolite)	100-120	A100-35R	L-S-B	—	—	30A
Arsenic Pulverized	30	A100-25R	H	2	.8	45
Asbestos — Rock (Ore)	81	D3-37R	H	3	1.2	15
Asbestos — Shredded	20-40	E-46XY	H	2	1.0	30B
Ash, Black Ground	105	B6-35	L-S-B	1	2.0	30A
Ashes, Coal, Dry — 1/2"	35-45	C1/2-46TY	H	3	3.0	30B
Ashes, Coal, Dry — 3"	5-40	D3-46T	H	3	2.5	30B
Ashes, Coal, Wet — 1/2"	45-50	C1/2-46T	H	3	3.0	30B
Ashes, Coal, Wet — 3"	45-50	D3-46T	H	3	4.0	30B
Ashes, Fly (See Fly Ash)	—	—	—	—	—	—
Asphalt, Crushed — 1/2"	45	C1/2-45	H	2	2.0	30A
Bagasse	7-10	E-45RVXY	L-S-B	2	1.5	30A
Bakelite, Fine	30-45	B6-25	L-S-B	1	1.4	45
Baking Powder	40-55	A100-35	S	1	.6	30A
Baking Soda (Sodium Bicarbonate)	40-55	A100-25	S	1	.6	45
Barite (Barium Sulfate) + 1/2" — 3"	120-180	D3-36	H	3	2.6	30B
Barite, Powder	120-180	A100-35X	H	2	2.0	30A
Barium Carbonate	72	A100-45R	H	2	1.6	30A
Bark, Wood, Refuse	10-20	E-45TVY	H	3	2.0	30A
Barley, Fine, Ground	24-38	B6-35	L-S-B	1	.4	30A
Barley, Malted	31	C1/2-35	L-S-B	1	.4	30A
Barley, Meal	28	C1/2-35	L-S-B	1	.4	30A
Barley, Whole	36-48	B6-25N	L-S-B	1	.5	45
Basalt	80-105	B6-27	H	3	1.8	15
Bauxite, Dry, Ground	68	B6-25	H	2	1.8	45
Bauxite, Crushed — 3"	75-85	D3-36	H	3	2.5	30B
Beans,Castor, Meal	35-40	B6-35W	L-S-B	1	.8	30A
Beans, Castor, Whole Shelled	36	C1/2-15W	L-S-B	1	.5	45
Beans, Navy, Dry	48	C1/2-15	L-S-B	1	.5	45
Beans, Navy, Steeped	60	C1/2-25	L-S-B	1	.8	45
Bentonite, Crude	34-40	D3-45X	H	2	1.2	30A

Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Bentonite, –100 Mesh	50-60	A100-25MXY	H	2	0.7	45
Benzene Hexachloride	56	A100-45R	L-S-B	1	0.6	30A
Bicarbonate of Soda (Baking Soda)	—	—	S	1	0.6	—
Blood, Dried	35-45	D3-45U	H	2	2	30A
Blood, Ground, Dried	30	A100-35U	L-S	1	1	30A
Bone Ash (Tricalcium Phosphate)	40-50	A100-45	L-S	1	1.6	30A
Boneblack	20-25	A100-25Y	L-S	1	1.5	45
Bonechar	27-40	B6-35	L-S	1	1.6	30A
Bonemeal	50-60	B6-35	H	2	1.7	30A
Bones, Whole*	35-50	E-45V	H	2	3	30A
Bones, Crushed	35-50	D3-45	H	2	2	30A
Bones, Ground	50	B6-35	H	2	1.7	30A
Borate of Lime	60	A100-35	L-S-B	1	0.6	30A
Borax, Fine	45-55	B6-25T	H	3	0.7	30B
Borax Screening — 1/2"	55-60	C1/2-35	H	2	1.5	30A
Borax, 11/2" - 2" Lump	55-60	D3-35	H	2	1.8	30A
Borax, 2" - 3" Lump	60-70	D3-35	H	2	2	30A
Boric Acid, Fine	55	B6-25T	H	3	0.8	30A
Boron	75	A100-37	H	2	1	30B
Bran, Rice — Rye — Wheat	16-20	B6-35NY	L-S-B	1	0.5	30A
Braunite (Manganese Oxide)	120	A100-36	H	2	2	30B
Bread Crumbs	20-25	B6-35PQ	L-S-B	1	0.6	30A
Brewer's Grain, Spent, Dry	14-30	C1/2-45	L-S-B	1	0.5	30A
Brewer's Grain, Spent, Wet	55-60	C1/2-45T	L-S	2	0.8	30A
Brick, Ground — 1/8"	100-120	B6-37	H	3	2.2	15
Bronze Chips	30-50	B6-45	H	2	2	30A
Buckwheat	37-42	B6-25N	L-S-B	1	0.4	45
Calcine, Flour	75-85	A100-35	L-S-B	1	0.7	30A
Calcium Carbide	70-90	D3-25N	H	2	2	30A
Calcium Carbonate (See Limestone)	—	—	—	—	—	—
Calcium Fluoride (See Fluorspar)	—	—	—	—	—	—
Calcium Hydrate (See Lime, Hydrated)	—	—	—	—	—	—
Calcium Hydroxide (See Lime, Hydrated)	—	—	—	—	—	—
Calcium Lactate	26-29	D3-45QTR	L-S	2	0.6	30A
Calcium Oxide (See Lime, Unslaked)	—	—	—	—	—	—
Calcium Phosphate	40-50	A100-45	L-S-B	1	1.6	30A
Calcium Sulfate (See Gypsum)	—	—	—	—	—	—
Carbon, Activated, Dry Fine*	—	—	—	—	—	—
Carbon Black, Pelleted*	—	—	—	—	—	—
Carbon Black, Powder*	—	—	—	—	—	—
Carborundum	100	D3-27	H	3	3	15
Casein	36	B6-35	H	2	1.6	30A
Cashew Nuts	32-37	C1/2-45	H	2	0.7	30A
Cast Iron, Chips	130-200	C1/2-45	H	2	4	30A
Caustic Soda	88	B6-35RSU	H	3	1.8	30A
Caustic Soda, Flakes	47	C1/2-45RSUX	L-S	3	1.5	30A
Celite (See Diatomaceous Earth)	—	—	—	—	—	—
Cement, Clinker	75-95	D3-36	H	3	1.8	30B
Cement, Mortar	133	B6-35Q	H	3	3	30A
Cement, Portland	94	A100-26M	H	2	1.4	30B
Cement, Aerated (Portland)	60-75	A100-16M	H	2	1.4	30B
Cerrusite (See Lead Carbonate)	—	—	—	—	—	—
Chalk, Crushed	75-95	D3-25	H	2	1.9	30A
Chalk, Pulverized	67-75	A100-25MXY	H	2	1.4	45
Charcoal, Ground	18-28	A100-45	H	2	1.2	30A
Charcoal, Lumps	18-28	D3-45Q	H	2	1.4	30A

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Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Chocolate, Cake Pressed	40-45	D3-25	S	2	1.5	30A
Chrome Ore	125-140	D3-36	H	3	2.5	30B
Cinders, Blast Furnace	57	D3-36T	H	3	1.9	30B
Cinders, Coal	40	D3-36T	H	3	1.8	30B
Clay (See Bentonite, Diatomaceous Earth, Fuller's Earth, Kaolin & Marl)	—	—	—	—	—	—
Clay, Ceramic, Dry, Fines	60-80	A100-35P	L-S-B	1	1.5	30A
Clay, Calcined	80-100	B6-36	H	3	2.4	30B
Clay, Brick, Dry, Fines	100-120	C1/2-36	H	3	2.0	30B
Clay, Dry, Lumpy	60-75	D3-35	H	2	1.8	30A
Clinker, Cement (See Cement Clinker)	—	—	—	—	—	—
Clover Seed	45-48	B6-25N	L-S-B	1	.4	45
Coal, Anthracite (River & Culm)	55-61	B6-35TY	L-S	2	1.0	30A
Coal, Anthracite, Sized-1/2"	49-61	C1/2-25	L-S	2	1.0	45
Coal, Bituminous, Mined	40-60	D3-35LNXY	L-S	1	.9	30A
Coal, Bituminous, Mined, Sized	45-50	D3-35QV	L-S	1	1.0	30A
Coal, Bituminous, Mined, Slack	43-50	C1/2-45T	L-S	2	.9	30A
Coal, Lignite	37-45	D3-35T	H	2	1.0	30A
Cocoa Beans	30-45	C1/2-25Q	L-S	1	.5	45
Cocoa, Nibs	35	C1/2-25	H	2	.5	45
Cocoa, Powdered	30-35	A100-45XY	S	1	.9	30A
Cocoanut, Shredded	20-22	E-45	S	2	1.5	30A
Coffee, Chaff	20	B6-25MY	L-S	1	1.0	45
Coffee, Green Bean	25-32	C1/2-25PQ	L-S	1	.5	45
Coffee, Ground, Dry	25	A40-35P	L-S	1	.6	30A
Coffee, Ground, Wet	35-45	A40-45X	L-S	1	.6	30A
Coffee, Roasted Bean	20-30	C1/2-25PQ	S	1	.4	45
Coffee, Soluble	19	A40-35PUY	S	1	.4	45
Coke, Breeze	25-35	C1/2-37	H	3	1.2	15
Coke, Loose	23-35	D7-37	H	3	1.2	15
Coke, Petrol, Calcined	35-45	D7-37	H	3	1.3	15
Compost	30-50	D7-45TV	L-S	3	1.0	30A
Concrete, Pre-Mix Dry	85-120	C1/2-36U	H	3	3.0	30B
Copper Ore	120-150	DX-36	H	3	4.0	30B
Copper Ore, Crushed	100-150	D3-36	H	3	4.0	30B
Copper Sulphate, (Bluestone)	75-95	C1/2-35S	L-S	2	1.0	30A
Copperas (See Ferrous Sulphate)	—	—	—	—	—	—
Copra, Cake Ground	40-45	B6-45HW	L-S-B	1	.7	30A
Copra, Cake, Lumpy	25-30	D3-35HW	L-S-B	2	.8	30A
Copra, Lumpy	22	E-35HW	L-S-B	2	1.0	30A
Copra, Meal	40-45	B6-35HW	H	2	.7	30A
Cork, Fine Ground	5-15	B6-35JNY	L-S-B	1	.5	30A
Cork, Granulated	12-15	C1/2-35JY	L-S-B	1	.5	30A
Corn, Cracked	40-50	B6-25P	L-S-B	1	.7	45
Corn Cobs, Ground	17	C1/2-25Y	L-S-B	1	.6	45
Corn Cobs, Whole*	12-15	E-35	L-S	2		30A
Corn Ear*	56	E-35	L-S	2		30A
Corn Germ	21	B6-35PY	L-S-B	1	.4	30A
Corn Grits	40-45	B6-35P	L-S-B	1	.5	30A
Cornmeal	32-40	B6-35P	L-S	1	.5	30A
Corn Oil, Cake	25	D7-45HW	L-S	1	.6	30A
Corn Seed	45	C1/2-25PQ	L-S-B	1	.4	45
Corn Shelled	45	C1/2-25	L-S-B	1	.4	45
Corn Sugar	30-35	B6-35PU	S	1	1.0	30A
Cottonseed, Cake, Crushed	40-45	C1/2-45HW	L-S	1	1.0	30A
Cottonseed, Cake, Lumpy	40-45	D7-45HW	L-S	2	1.0	30A

Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Cottonseed, Dry, Delinted	22-40	C1/2-25X	L-S	1	.6	45
Cottonseed, Dry, Not Delinted	18-25	C1/2-45XY	L-S	1	.9	30A
Cottonseed, Flakes	20-25	C1/2-35HWY	L-S	1	.8	30A
Cottonseed, Hulls	12	B6-35Y	L-S	1	.9	30A
Cottonseed, Meal, Expeller	25-30	B6-45HW	L-S	3	.5	30A
Cottonseed, Meal, Extracted	35-40	B6-45HW	L-S	1	.5	30A
Cottonseed, Meats, Dry	40	B6-35HW	L-S	1	.6	30A
Cottonseed, Meats, Rolled	35-40	C1/2-45HW	L-S	1	.6	30A
Cracklings, Crushed	40-50	D3-45HW	L-S-B	2	1.3	30A
Cryolite, Dust	75-90	A100-36L	H	2	2.0	30B
Cryolite, Lumpy	90-110	D16-36	H	2	2.1	30B
Cullet, Fine	80-120	C1/2-37	H	3	2.0	15
Cullet, Lump	80-120	D16-37	H	3	2.5	15
Culm, (See Coal, Anthracite)	—	—	—	—	—	—
Cupric Sulphate (Copper Sulfate)	—	—	—	—	—	—
Detergent (See Soap Detergent)	—	—	—	—	—	—
Diatomaceous Earth	11-17	A40-36Y	H	3	1.6	30B
Dicalcium Phosphate	40-50	A40-35	L-S-B	1	1.6	30A
Disodium Phosphate	25-31	A40-35	H	3	.5	30A
Distiller's Grain, Spent Dry	30	B6-35	H	2	.5	30A
Distiller's Grain, Spent Wet	40-60	C1/2-45V	L-S	3	.8	30A
Dolomite, Crushed	80-100	C1/2-36	H	2	2.0	30B
Dolomite, Lumpy	90-100	DX-36	H	2	2.0	30B
Earth, Loam, Dry, Loose	76	C1/2-36	H	2	1.2	30B
Ebonite, Crushed	63-70	C1/2-35	L-S-B	1	.8	30A
Egg Powder	16	A40-35MPY	S	1	1.0	30A
Epsom Salts (Magnesium Sulfate)	40-50	A40-35U	L-S-B	1	.8	30A
Feldspar, Ground	65-80	A100-37	H	2	2.0	15
Feldspar, Lumps	90-100	D7-37	H	2	2.0	15
Feldspar, Powder	100	A200-36	H	2	2.0	30B
Feldspar, Screenings	75-80	C1/2-37	H	2	2.0	15
Ferrous Sulfide — 1/2	120-135	C1/2-26	H	2	2.0	30B
Ferrous Sulfide — 00M	105-120	A100-36	H	2	2.0	30B
Ferrous Sulphate	50-75	C1/2-35U	H	2	1.0	30A
Fish Meal	35-40	C1/2-45HP	L-S-B	1	1.0	30A
Fish Scrap	40-50	D7-45H	L-S-B	2	1.5	30A
Flaxseed	43-45	B6-35X	L-S-B	1	.4	30A
Flaxseed Cake (Linseed Cake)	48-50	D7-45W	L-S	2	.7	30A
Flaxseed Meal (Linseed Meal)	25-45	B6-45W	L-S	1	.4	30A
Flour Wheat	33-40	A40-45LP	S	1	.6	30A
Flue Dust, Basic Oxygen Furnace	45-60	A40-36LM	H	3	3.5	30B
Flue Dust, Blast Furnace	110-125	A40-36	H	3	3.5	30B
Flue Dust, Boiler H. Dry	30-45	A40-36LM	H	3	2.0	30B
Fluorspar, Fine (Calcium Fluoride)	80-100	B6-36	H	2	2.0	30B
Fluorspar, Lumps	90-110	D7-36	H	2	2.0	30B
Fly Ash	30-45	A40-36M	H	3	2.0	30B
Foundry Sand, Dry (See Sand)	—	—	—	—	—	—
Fuller's Earth, Dry, Raw	30-40	A40-25	H	2	2.0	15
Fuller's Earth, Oily, Spent	60-65	C1/2-450W	H	3	2.0	30A
Fuller's Earth, Calcined	40	A100-25	H	3	2.0	15
Galena (See Lead Sulfide	—	—	—	—	—	—
Gelatine, Granulated	32	B6-35PU	S	1	.8	30A
Gilsonite	37	C1/2-35	H	3	1.5	30A
Glass, Batch	80-100	C1/2-37	H	3	2.5	15
Glue, Ground	40	B6-45U	H	2	1.7	30A
Glue, Pearl	40	C1/2-35U	L-S-B	1	.5	30A

Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Glue, Veg. Powdered	40	A40-45U	L-S-B	1	.6	30A
Gluten, Meal	40	B6-35P	L-S	1	.6	30A
Granite, Fine	80-90	C1/2-27	H	3	2.5	15
Grape Pomace	15-20	D3-45U	H	2	1.4	30A
Graphite Flake	40	B6-25LP	L-S-B	1	.5	45
Graphite Flour	28	A100-35LMP	L-S-B	1	.5	30A
Graphite Ore	65-75	DX-35L	H	2	1.0	30A
Guano Dry*	70	C1/2-35	L-S	3	2.0	30A
Gypsum, Calcined	55-60	B6-35U	H	2	1.6	30A
Gypsum, Calcined, Powdered	60-80	A100-35U	H	2	2.0	30A
Gypsum, Raw — 1"	70-80	D3-25	H	2	2.0	30A
Hay, Chopped*	8-12	C1/2-35JY	L-S	2	1.6	30A
Hexanedioic Acid (See Adipic Acid)	—	—	—	—	—	—
Hominy, Dry	35-50	C1/2-25	L-S-B	1	.4	45
Hops, Spent, Dry	35	D3-35	L-S-B	2	1.0	30A
Hops, Spent, Wet	50-55	D3-45V	L-S	2	1.5	30A
Ice, Crushed	35-45	D3-35Q	L-S	2	.4	30A
Ice, Flaked*	40-45	C1/2-35Q	S	1	.6	30A
Ice, Cubes	33-35	D3-35Q	S	1	.4	30A
Ice, Shell	33-35	D3-45Q	S	1	.4	30A
Ilmenite Ore	140-160	D3-37	H	3	2.0	15
Iron Ore Concentrate	120-180	A40-37	H	3	2.2	15
Iron Oxide Pigment	25	A100-36LMP	H	2	1.0	30B
Iron Oxide, Millscale	75	C1/2-36	H	2	1.6	30B
Iron Pyrites (See Ferrous Sulfide	—	—	—	—	—	—
Iron Sulphate (See Ferrous Sulfate)	—	—	—	—	—	—
Iron Sulfide (See errous Sulfide	—	—	—	—	—	—
Iron Vitriol (See Ferrous Sulfate)	—	—	—	—	—	—
Kafir (orn)	40-45	C1/2-25	H	3	.5	45
Kaolin Clay	63	D3-25	H	2	2.0	30A
Kaolin Clay-Talc	32-56	A40-35LMP	H	2	2.0	30A
Kryalith (See Cryolite)	—	—	—	—	—	—
Lactose	32	A40-35PU	S	1	.6	30A
Lamp Black (See Carbon Black)	—	—	—	—	—	—
Lead Arsenate	72	A40-35R	L-S-B	1	1.4	30A
Lead Arsenite	72	A40-35R	L-S-B	1	1.4	30A
Lead Carbonate	240-260	A40-35R	H	2	1.0	30A
Lead Ore — 1/8"	200-270	B6-35	H	3	1.4	30A
Lead Ore — 1/2"	180-230	C1/2-36	H	3	1.4	30B
Lead Oxide (Red Lead) — 100 Mesh	30-150	A100-35P	H	2	1.2	30A
Lead Oxide (Red Lead) — 200 Mesh	30-180	A200-35LP	H	2	1.2	30A
Lead Sulphide — 100 Mesh	240-260	A100-35R	H	2	1.0	30A
Lignite (See Coal Lignite)	—	—	—	—	—	—
Limanite, Ore, Brown	120	C1/2-47	H	3	1.7	15
Lime, Ground, Unslaked	60-65	B6-35U	L-S-B	1	.6	30A
Lime Hydrated	40	B6-35LM	H	2	.8	30A
Lime, Hydrated, Pulverized	32-40	A40-35LM	L-S	1	.6	30A
Lime, Pebble	53-56	C1/2-25HU	L-S	2	2.0	45
Limestone, Agricultural	68	B6-35	H	2	2.0	30A
Limestone, Crushed	85-90	DX-36	H	2	2.0	30B
Limestone, Dust	55-95	A40-46MY	H	2	1.6-2.0	30B
Lindane (Benzene Hexachloride)	—	—	—	—	—	—
Linseed (See Flaxseed)	—	—	—	—	—	—
Litharge (Lead Oxide)	—	—	—	—	—	—
Lithopone	45-50	A325-35MR	L-S	1	1.0	30A
Maize (See Milo)	—	—	—	—	—	—

*Consult Factory

Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Malt, Dry, Ground	20-30	B6-35NP	L-S-B	1	.5	30A
Malt, Meal	36-40	B6-25P	L-S-B	1	.4	45
Malt, Dry Whole	20-30	C1/2-35N	L-S-B	1	.5	30A
Malt, Sprouts	13-15	C1/2-35P	L-S-B	1	.4	30A
Magnesium Chloride (Magnesite)	33	C1/2-45	L-S	1	1.0	30A
Manganese Dioxide*	70-85	A100-35NRT	L-S	2	1.5	30A
Manganese Ore	125-140	DX-37	H	3	2.0	15
Manganese Oxide	120	A100-36	H	2	2.0	30B
Manganese Sulfate	70	C1/2-37	H	3	2.4	15
Marble, Crushed	80-95	B6-37	H	3	2.0	15
Marl, (Clay)	80	DX-36	H	2	1.6	30B
Meat, Ground	50-55	E-45HQTX	L-S	2	1.5	30A
Meat, Scrap (w/bone)	40	E-46H	H	2	1.5	30B
Mica, Flakes	17-22	B6-16MY	H	2	1.0	30B
Mica, Ground	13-15	B6-36	H	2	.9	30B
Mica, Pulverized	13-15	A100-36M	H	2	1.0	30B
Milk, Dried, Flake	5-6	B6-35PUY	S	1	.4	30A
Milk, Malted	27-30	A40-45PX	S	1	.9	30A
Milk, Powdered	20-45	B6-25PM	S	1	.5	45
Milk Sugar	32	A100-35PX	S	1	.6	30A
Milk, Whole, Powdered	20-36	B6-35PUX	S	1	.5	30A
Mill Scale (Steel)	120-125	E-46T	H	3	3.0	30B
Milo, Ground	32-36	B6-25	L-S-B	1	.5	45
Milo Maize (Kafir	40-45	B6-15N	L-S-B	1	.4	45
Molybdenite Powder	107	B6-26	H	2	1.5	30B
Monosodium Phosphate	50	B6-36	H	2	.6	30B
Mortar, Wet*	150	E-46T	H	3	3.0	30B
Mustard Seed	45	B6-15N	L-S-B	1	.4	45
Naphthalene Flakes	45	B6-35	L-S-B	1	.7	30A
Niacin (Nicotinic Acid)	35	A40-35P	H	2	2.5	30A
Oats	26	C1/2-25MN	L-S-B	1	.4	45
Oats, Crimped	19-26	C1/2-35	L-S-B	1	.5	30A
Oats, Crushed	22	B6-45NY	L-S-B	1	.6	30A
Oats, Flour	35	A100-35	L-S-B	1	.5	30A
Oat Hulls	8-12	B6-35NY	L-S-B	1	.5	30A
Oats, Rolled	19-24	C1/2-35NY	L-S-B	1	.6	30A
Oleo Margarine (Margarine)	59	E-45HKPWX	L-S	2	.4	30A
Orange Peel, Dry	15	E-45	L-S	2	1.5	30A
Oxalic Acid Crystals — Ethane Diacid Crystals	60	B6-35QS	L-S	1	1.0	30A
Oyster Shells, Ground	50-60	C1/2-36T	H	3	1.6-2.0	30B
Oyster Shells, Whole	80	D3-36TV	H	3	2.1-2.5	30B
Paper Pulp (4% or less)	62	E-45	L-S	2	1.5	30A
Paper Pulp (6% to 15%)	60-62	E-45	L-S	2	1.5	30A
Paraffin Cake — 1/2"	45	C1/2-45K	L-S	1	.6	30A
Peanuts, Clean, in shell	15-20	D3-35Q	L-S	2	.6	30A
Peanut Meal	30	B6-35P	S	1	.6	30A
Peanuts, Raw, Uncleaned (unshelled)	15-20	D3-36Q	H	3	.7	30B
Peanuts, Shelled	35-45	C1/2-35Q	S	1	.4	30A
Peas, Dried	45-50	C1/2-15NQ	L-S-B	1	.5	45
Perlite — Expanded	8-12	C1/2-36	H	2	.6	30B
Phosphate Acid Fertillizer	60	B6-25T	L-S	2	1.4	45
Phosphate Disodium (See Sodium Phosphate)	—	—	—	—	—	—
Phosphate Rock, Broken	75-85	DX-36	H	2	2.1	30B
Phosphate Rock, Pulverized	60	B6-36	H	2	1.7	30B
Phosphate Sand	90-100	B6-37	H	3	2.0	15
Plaster of Paris (See Gypsum)	—	—	—	—	—	—

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Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Plumbago (See Graphite)	—	—	—	—	—	—
Polystyrene Beads	40	B6-35PQ	S	1	.4	30A
Polyvinyl, Chloride Powder	20-30	A100-45KT	S	2	1.0	30A
Polyvinyl, Chloride Pellets	20-30	E-45KPQT	S	1	.6	30A
Polyethylene, Resin Pellets	30-35	C1/2-45Q	L-S	1	.4	30A
Potash (Muriate) Dry	70	B6-37	H	3	2.0	15
Potash (Muriate) Mine Run	75	DX-37	H	3	2.2	15
Potassium Carbonate	51	B6-36	H	2	1.0	30B
Potassium Chloride Pellets	120-130	C1/2-25TU	H	3	1.6	45
Potassium Nitrate — 1/2"	76	C1/2-16NT	H	3	1.2	30B
Potassium Nitrate — 1/8"	80	B6-26NT	H	3	1.2	30B
Potassium Sulfate	42-48	B6-46X	H	2	1.0	30B
Potato Flour	48	A200-35MNP	L-S	1	.5	30A
Pumice — 1/8"	42-48	B6-46	H	3	1.6	30B
Pyrite, Pellets	120-130	C1/2-26	H	3	2.0	30B
Quartz — 100 Mesh	70-80	A100-27	H	3	1.7	15
Quartz — 1/2"	80-90	C1/2-27	H	3	2.0	15
Rice, Bran	20	B6-35NY	L-S-B	1	.4	30A
Rice, Grits	42-45	B6-35P	L-S-B	1	.4	30A
Rice, Polished	30	C1/2-15P	L-S-B	1	.4	45
Rice, Hulled	45-49	C1/2-25P	L-S-B	1	.4	45
Rice, Hulls	20-21	B6-35NY	L-S-B	1	.4	30A
Rice, Rough	32-36	C1/2-35N	L-S-B	1	.6	30A
Rosin — 1/2"	65-68	C1/2-45Q	L-S-B	1	1.5	30A
Rubber, Reclaimed Ground	23-50	C1/2-45	L-S-B	1	.8	30A
Rubber, Pelleted	50-55	D3-45	L-S-B	2	1.5	30A
Rye	42-48	B6-15N	L-S-B	1	.4	45
Rye Bran	15-20	B6-35Y	L-S-B	1	.4	45
Rye Feed	33	B6-35N	L-S-B	1	.5	30A
Rye Meal	35-40	B6-35	L-S-B	1	.5	30A
Rye Middlings	42	B6-35	L-S	1	.5	30A
Rye, Shorts	32-33	C1/2-35	L-S	2	.5	30A
Safflower, Cake	50	D3-26	H	2	.6	30B
Safflower, Meal	50	B6-35	L-S-B	1	.6	30A
Safflower Seed	45	B6-15N	L-S-B	1	.4	45
Saffron (See Safflower)	—	—	—	—	—	—
Sal Ammoniac (Ammonium Chloride)	—	—	—	—	—	—
Salt Cake, Dry Coarse	85	B6-36TU	H	3	2.1	30B
Salt Cake, Dry Pulverized	65-85	B6-36TU	H	3	1.7	30B
Salicylic Acid	29	B6-37U	H	3	.6	15
Salt, Dry Coarse	45-60	C1/2-36TU	H	3	1.0	30B
Salt, Dry Fine	70-80	B6-36TU	H	3	1.7	30B
Saltpeter — (See Potassium Nitrate)	—	—	—	—	—	—
Sand Dry Bank (Damp)	110-130	B6-47	H	3	2.8	15
Sand Dry Bank (Dry)	90-110	B6-37	H	3	1.7	15
Sand Dry Silica	90-100	B6-27	H	3	2.0	15
Sand Foundry (Shake Out)	90-100	D3-37Z	H	3	2.6	15
Sand (Resin Coated) Silica	104	B6-27	H	3	2.0	15
Sand (Resin Coated) Zircon	115	A100-27	H	3	2.3	15
Sawdust, Dry	10-13	B6-45UX	L-S-B	1	1.4	15
Sea — Coal	65	B6-36	H	2	1.0	30B
Sesame Seed	27-41	B6-26	H	2	.6	30B
Shale, Crushed	85-90	C1/2-36	H	2	2.0	30B
Shellac, Powdered or Granulated	31	B6-35P	S	1	.6	30A
Silicon Dioxide (See Quartz)	—	—	—	—	—	—
Silica, Flour	80	A40-46	H	2	1.5	30B

Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Silica Gel + 1/2" - 3"	45	D3-37HKQU	H	3	2.0	15
Slag, Blast Furnace Crushed	130-180	D3-37Y	H	3	2.4	15
Slag, Furnace Granular, Dry	60-65	C1/2-37	H	3	2.2	15
Slate, Crushed, — 1/2"	80-90	C1/2-36	H	2	2.0	30B
Slate, Ground, — 1/8"	82-85	B6-36	H	2	1.6	30B
Sludge, Sewage, Dried	40-50	E-47TW	H	3	.8	15
Sludge, Sewage, Dry Ground	45-55	B-46S	H	2	.8	30B
Soap, Beads or Granules	15-35	B6-35Q	L-S-B	1	.6	30A
Soap, Chips	15-25	C1/2-35Q	L-S-B	1	.6	30A
Soap Detergent	15-50	B6-35FQ	L-S-B	1	.8	30A
Soap, Flakes	5-15	B6-35QXY	L-S-B	1	.6	30A
Soap, Powder	20-25	B6-25X	L-S-B	1	.9	45
Soapstone, Talc, Fine	40-50	A200-45XY	L-S-B	1	2.0	30A
Soda Ash, Heavy	55-65	B6-36	H	2	2.0	30B
Soda Ash, Light	20-35	A40-36Y	H	2	1.6	30B
Sodium Aluminate, Ground	72	B6-36	H	2	1.0	30B
Sodium Aluminum Fluoride (See Kryolite)	—	—	—	—	—	—
Sodium Aluminum Sulphate*	75	A100-36	H	2	1.0	30B
Sodium Bentonite (See Bentonite)	—	—	—	—	—	—
Sodium Bicarbonate (See Baking Soda)	—	—	—	—	—	—
Sodium Chloride (See Salt)	—	—	—	—	—	—
Sodium Carbonate (See Soda Ash)	—	—	—	—	—	—
Sodium Hydrate (See Caustic Soda)	—	—	—	—	—	—
Sodium Hydroxide (See Caustic Soda)	—	—	—	—	—	—
Sodium Borate (See Borax)	—	—	—	—	—	—
Sodium Nitrate	70-80	D3-25NS	L-S	2	1.2	30A
Sodium Phosphate	50-60	A-35	L-S	1	.9	30A
Sodium Sulfate (See Salt Cake)	—	—	—	—	—	—
Sodium Sulfite	96	B6-46X	H	2	1.5	30B
Sorghum, Seed (See Kafir or Milo	—	—	—	—	—	—
Soybean, Cake	40-43	D3-35W	L-S-B	2	1.0	30A
Soybean, Cracked	30-40	C1/2-36NW	H	2	.5	30B
Soybean, Flake, Raw	18-25	C1/2-35Y	L-S-B	1	.8	30A
Soybean, Flour	27-30	A40-35MN	L-S-B	1	.8	30A
Soybean Meal, Cold	40	B6-35	L-S-B	1	.5	30A
Soybean Meal Hot	40	B6-35T	L-S	2	.5	30A
Soybeans, Whole	45-50	C1/2-26NW	H	2	1.0	30B
Starch	25-50	A40-15M	L-S-B	1	1.0	45
Steel Turnings, Crushed	100-150	D3-46WV	H	3	3.0	30B
Sugar Beet, Pulp, Dry	12-15	C1/2-26	H	2	.9	30B
Sugar Beet, Pulp, Wet	25-45	C1/2-35X	L-S-B	1	1.2	30A
Sugar, Refined, G anulated Dry	50-55	B6-35PU	S	1	1.0-1.2	30A
Sugar, Refined, G anulated Wet	55-65	C1/2-35X	S	1	1.4-2.0	30A
Sugar, Powdered	50-60	A100-35PX	S	1	.8	30A
Sugar, Raw	55-65	B6-35PX	S	1	1.5	30A
Sulphur, Crushed — 1/2"	50-60	C1/2-35N	L-S	1	.8	30A
Sulphur, Lumpy, — 3"	80-85	D3-35N	L-S	2	.8	30A
Sulphur, Powdered	50-60	A40-35MN	L-S	1	.6	30A
Sunflower Seed	19-38	C1/2-15	L-S-B	1	.5	45
Talcum, — 1/2"	80-90	C1/2-36	H	2	.9	30B
Talcum Powder	50-60	A200-36M	H	2	.8	30B
Tanbark, Ground*	55	B6-45	L-S-B	1	.7	30A
Timothy Seed	36	B6-35NY	L-S-B	1	.6	30A
Titanium Dioxide (See Ilmenite Ore)	—	—	—	—	—	—
Tobacco, Scraps	15-25	D3-45Y	L-S	2	.8	30A
Tobacco, Snuff	30	B6-45MQ	L-S-B	1	.9	30A

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Table 1-2
Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Tricalcium Phosphate	40-50	A40-45	L-S	1	1.6	30A
Triple Super Phosphate	50-55	B6-36RS	H	3	2.0	30B
Trisodium Phosphate	60	C1/2-36	H	2	1.7	30B
Trisodium Phosphate Granular	60	B6-36	H	2	1.7	30B
Trisodium Phosphate, Pulverized	50	A40-36	H	2	1.6	30B
Tung Nut Meats, Crushed	28	D3-25W	L-S	2	.8	30A
Tung Nuts	25-30	D3-15	L-S	2	.7	30A
Urea Prills, Coated	43-46	B6-25	L-S-B	1	1.2	45
Vermiculite, Expanded	16	C1/2-35Y	L-S	1	.5	30A
Vermiculite, Ore	80	D3-36	H	2	1.0	30B
Vetch	48	B6-16N	L-S-B	1	.4	30B
Walnut Shells, Crushed	35-45	B6-36	H	2	1.0	30B
Wheat	45-48	C1/2-25N	L-S-B	1	.4	45
Wheat, Cracked	40-45	B6-25N	L-S-B	1	.4	45
Wheat, Germ	18-28	B6-25	L-S-B	1	.4	45
White Lead, Dry	75-100	A40-36MR	H	2	1.0	30B
Wood Chips, Screened	10-30	D3-45VY	L-S	2	.6	30A
Wood Flour	16-36	B6-35N	L-S	1	.4	30A
Wood Shavings	8-16	E-45VY	L-S	2	1.5	30A
Zinc, Concentrate Residue	75-80	B6-37	H	3	1.0	15
Zinc Oxide, Heavy	30-35	A100-45X	L-S	1	1.0	30A
Zinc Oxide, Light	10-15	A100-45XY	L-S	1	1.0	30A

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Selection of Conveyor Size and Speed

In order to determine the size and speed of a screw conveyor, it is necessary fi st to establish the material code number. It will be seen from what follows that this code number controls the cross-sectional loading that should be used. The various cross-sectional loadings shown in the Capacity Table (Table 1-6) are for use with the standard screw conveyor components indicated in the Component Group Selection Guide on page H-21 and are for use where the conveying operation is controlled with volumetric feeders and where the material is uniformly fed into the conveyor housing and discharged from it. Check lump size limitations before choosing conveyor diameter. See Table 1-7 on page H-18.

Capacity Table

The capacity table, (Table 1-6), gives the capacities in cubic feet per hour at one revolution per minute for various size screw conveyors for four cross-sectional loadings. Also shown are capacities in cubic feet per hour at the maximum recommended revolutions per minute.

The capacity values given in the table will be found satisfactory for most applications. Where the capacity of a screw conveyor is very critical, especially when handling a material not listed in Table 1-2, it is best to consult our Engineering Department.

The maximum capacity of any size screw conveyor for a wide range of materials, and various conditions of loading, may be obtained from Table 1-6 by noting the values of cubic feet per hour at maximum recommended speed.

Conveyor Speed

For screw conveyors with screws having standard pitch helical flights the conveyor speed may be calculated by the formula:

$$N = \frac{\text{Required capacity, cubic feet per hour}}{\text{Cubic feet per hour at 1 revolution per minute}}$$

N= Revolutions per minute of screw
(but not greater than the maximum recommended speed.)

For the calculation of conveyor speeds where special types of screws are used, such as short pitch screws, cut flights, cut and folded flights and ribbon flights, an equivalent required capacity must be used, based on factors in the Tables 1-3, 4, 5.

Factor CF_1 relates to the pitch of the screw. Factor CF_2 relates to the type of the flight. Factor CF_3 relates to the use of mixing paddles within the flight pitches.

The equivalent capacity then is found by multiplying the required capacity by the capacity factors. See Tables 1-3, 4, 5 for capacity factors.

$$\left(\begin{array}{c}\text{Equiv. Capacity}\\ \text{Cubic Feet Per Hour}\end{array}\right) = \left(\begin{array}{c}\text{Required Capacity}\\ \text{Cubic Feet Per Hour}\end{array}\right) (CF_1)\,(CF_2)\,(CF_3)$$

Table 1-3

Special Conveyor Pitch Capacity Factor CF_1		
Pitch	**Description**	**CF_1**
Standard	Pitch = Diameter of Screw	1.00
Short	Pitch =2/3 Diameter of Screw	1.50
Half	Pitch =1/2 Diameter of Screw	2.00
Long	Pitch = 1-1/2 Diameter of Screw	0.67

Table 1-4

Special Conveyor Pitch Capacity Factor CF_2			
Type of Flight	**Conveyor Loading**		
	15%	**30%**	**45%**
Cut Flight	1.95	1.57	1.43
Cut & Folded Flight	N.R.*	3.75	2.54
Ribbon Flight	1.04	1.37	1.62

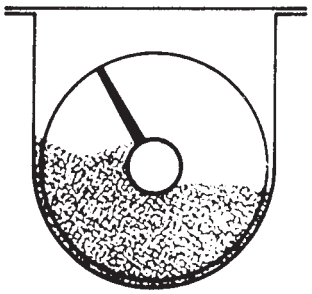
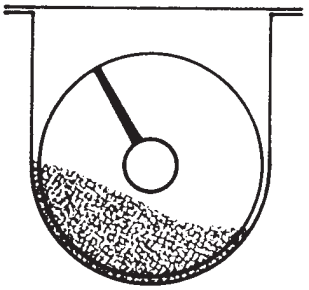
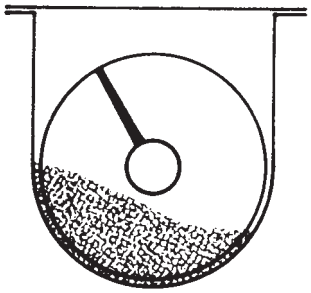
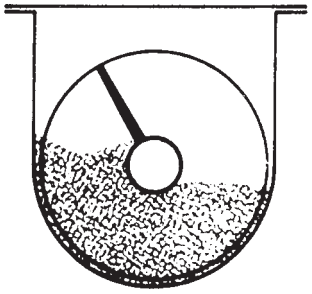
*Not recommended
If none of the above flight modifications a e used: $CF_2 = 1.0$

Table 1-5

Special Conveyor Pitch Capacity Factor CF_3					
Standard Paddles at 45° Reverse Pitch	**Paddles Per Pitch**				
	None	**1**	**2**	**3**	**4**
Factor CF_3	1.00	1.08	1.16	1.24	1.32

Capacity Table
Horizontal Screw Conveyors
(Consult Factory for Inclined Conveyors)

Table 1-6

Trough Loading		Screw Diameter Inch	Capacity Cubic Feet Per Hour (Full Pitch)		Max. RPM
			At One RPM	At Max. RPM	
45%		4	0.62	114	184
		6	2.23	368	165
		9	8.20	1270	155
		10	11.40	1710	150
		12	19.40	2820	145
		14	31.20	4370	140
		16	46.70	6060	130
		18	67.60	8120	120
		20	93.70	10300	110
		24	164.00	16400	100
		30	323.00	29070	90
		36	553.20	4142	75
30% A		4	0.41	53	130
		6	1.49	180	120
		9	5.45	545	100
		10	7.57	720	95
		12	12.90	1160	90
		14	20.80	1770	85
		16	31.20	2500	80
		18	45.00	3380	75
		20	62.80	4370	70
		24	109.00	7100	65
		30	216.00	12960	60
		36	368.80	18400	50
30% B		4	0.41	29	72
		6	1.49	90	60
		9	5.45	300	55
		10	7.60	418	55
		12	12.90	645	50
		14	20.80	1040	50
		16	31.20	1400	45
		18	45.00	2025	45
		20	62.80	2500	40
		24	109.00	4360	40
		30	216.00	7560	35
		36	368.80	11064	30
15%		4	0.21	15	72
		6	0.75	45	60
		9	2.72	150	55
		10	3.80	210	55
		12	6.40	325	50
		14	10.40	520	50
		16	15.60	700	45
		18	22.50	1010	45
		20	31.20	1250	40
		24	54.60	2180	40
		30	108.00	3780	35
		36	184.40	5537	30

Lump Size Limitations

The size of a screw conveyor not only depends on the capacity required, but also on the size and proportion of lumps in the material to be handled. The size of a lump is the maximum dimension it has. If a lump has one dimension much longer than its transverse cross-section, the long dimension or length would determine the lump size.

The character of the lump also is involved. Some materials have hard lumps that won't break up in transit through a screw conveyor. In that case, provision must be made to handle these lumps. Other materials may have lumps that are fairly hard, but degradable in transit through the screw conveyor, thus reducing the lump size to be handled. Still other materials have lumps that are easily broken in a screw conveyor and lumps of these materials impose no limitations.

Three classes of lump sizes are shown in TABLE 1-7 and as follows.

Class I

A mixture of lumps and fines in which not mo e than 10% are lumps ranging from maximum size to one half of the maximum; and 90% are lumps smaller than one half of the maximum size.

Class II

A mixture of lumps and fines in which not mo e than 25% are lumps ranging from the maximum size to one half of the maximum; and 75% are lumps smaller than one half of the maximum size.

Class III

A mixture of lumps only in which 95% or more are lumps ranging from maximum size to one half of the maximum size; and 5% or less are lumps less than one tenth of the maximum size.

Table 1-7

Maximum Lump Size Table (Inches)					
Screw Diameter	Pipe O.D.*	Radial Clearance △	Class I 10% Lumps Max. Lump	Class I 25% Lumps Max. Lump	Class I 95% Lumps Max. Lump
6	2-3/8	2-5/16	1-1/4	3/4	1/2
9	2-3/8	3-3/16	2-1/4	1-1/2	3/4
9	2-7/8	3-9/16	2-1/4	1-1/2	3/4
12	2-7/8	5-1/16	2-3/4	2	1
12	3-1/2	4-3/4	2-3/4	2	1
12	4	4-1/2	2-3/4	2	1
14	3-1/2	5-3/4	3-1/4	2-1/2	1-1/4
14	4	5-1/2	2-1/2	1-1/4	1-1/4
16	4	6-1/2	3-3/4	2-3/4	1-1/2
16	4-1/2	6-1/4	3-3/4	2-3/4	1-1/2
18	4	7-1/2	4-1/4	3	1-3/4
18	4-1/2	7-1/2	4-1/4	3	1-3/4
20	4	8-1/2	4-3/4	3-1/2	2
20	4-1/2	8-1/4	4-3/4	3-1/2	2
24	4-1/2	10-1/4	6	3-3/4	2-1/2
30	4-1/2	13-1/4	8	5	4
36	5-3/8	14-1/2	9-1/2	7-1/2	6

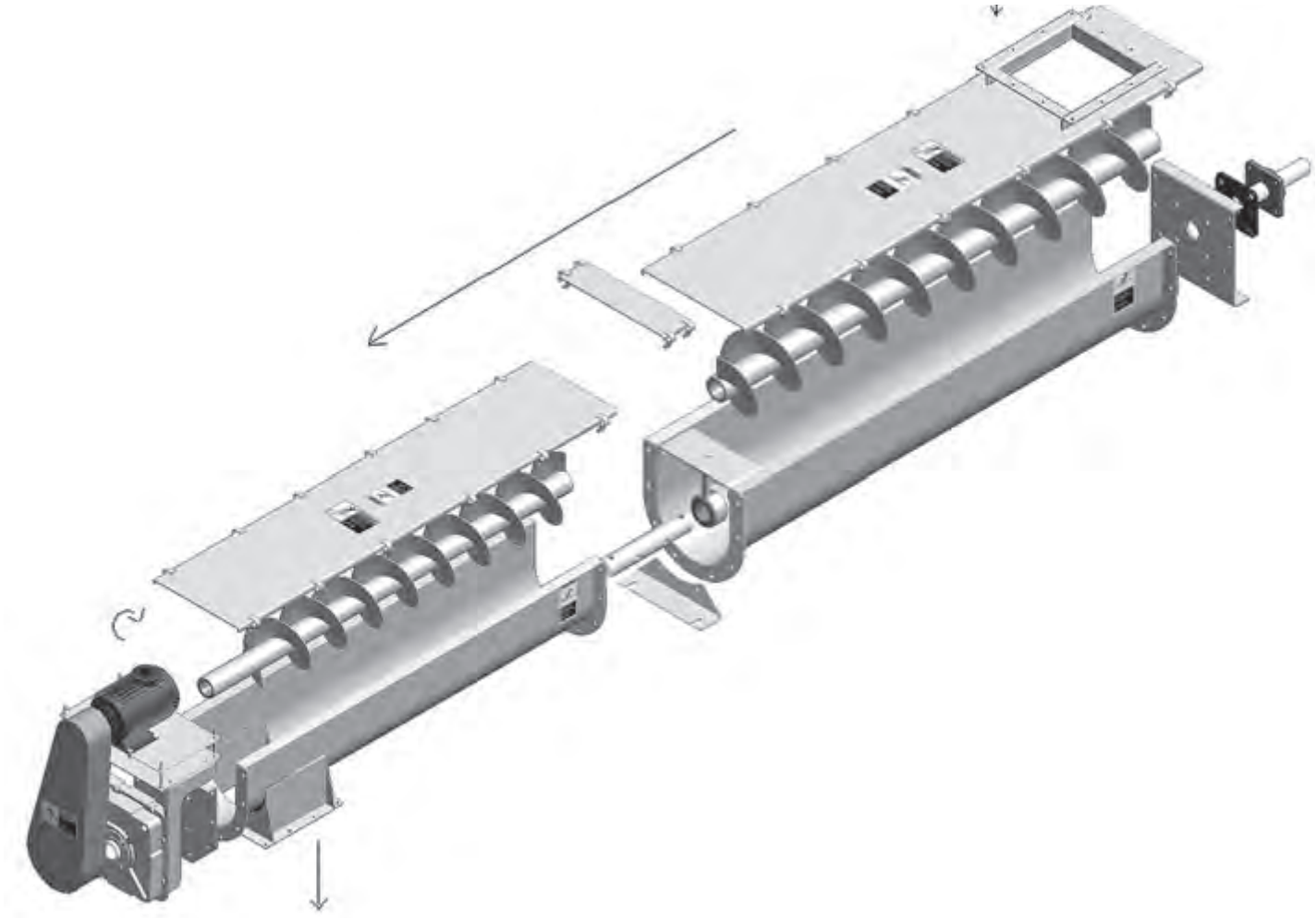
* For special pipe sizes, consult factory.

△ Radial clearance is the distance between the bottom of the trough and the bottom of the conveyor pipe.

EXAMPLE: Lump Size Limitations

To illustrate the selection of a conveyor size from the Maximum Lump Size Table, Table 1-7, consider crushed ice as the conveyed material. Refer to the material charts Table 1-2 and find c ushed ice and its material code D3-35Q and weight of 35-45 lbs./C.F. D3 means that the lump size is 1/2" to 3", this is noted by referring to the material classification code chart on page H-5. From actual specifications egarding crushed ice it is known that crushed ice has a maximum lump size of 1-1/2" and only 25% of the lumps are 1-1/2". With this information refer to Table 1-7, Maximum Lump Size Table. Under the column Class II and 1-1/2" Max. lump size read across to the minimum screw diameter which will be 9".

Component Selection



Component Groups

To facilitate the selection of proper specifications or a screw conveyor for a particular duty, screw conveyors are broken down into three Component Groups. These groups relate both to the Material Classification ode and also to screw size, pipe size, type of bearings and trough thickness.

Referring to Table 1-2, find the component se ies designation of the material to be conveyed.

Having made the Component Series selection, refer to Tables 1-8, 9, 10 which give the specifications of the arious sizes of conveyor screws. (The tabulated screw numbers in this table refer to standard specifications or screws found on pages H-77 – H-85 Component Section.) These standards give complete data on the screws such as the length of standard sections, minimum edge thickness of screw flight, bushing data, bolt size, bolt spacing, etc.

EXAMPLE: For a screw conveyor to handle brewers grain, spent wet, refer to the material characteristics Table 1-2. Note that the component series column refers to series 2. Refer now to page H-21, component selection, Table 1-9, component group 2. The standard shaft sizes, screw flight designations, trough gauges and cover gauges are listed for each screw diameter.

Table 1-8

Component Group 1					
Screw Diameter Inches	Coupling Diameter Inches	Screw Number		Thickness, U.S. Standard Gauge or Inches	
		Helicoid Flights	Sectional Flights	Trough	Cover
6	1-1/2	6H304	6S307	16Ga.	16Ga.
9	1-1/2	9H306	9S307	14Ga.	14Ga.
9	2	9H406	9S409	14Ga.	14Ga.
12	2	12H408	12S409	12Ga.	14Ga.
12	2-7/16	12H508	12S509	12Ga.	14Ga.
14	2-7/16	14H508	14S509	12Ga.	14Ga.
16	3	16H610	16S612	12Ga.	14Ga.
18	3	—	18S612	10Ga.	12Ga.
20	3	—	20S612	10Ga.	12Ga.
24	3-7/16	—	24S712	10Ga.	12Ga.
30	3-15/16	—	30S816	3/16"	10Ga.
36	4-7/16	—	36S916	1/4"	10Ga.

Table 1-9

Component Group 1					
Screw Diameter Inches	Coupling Diameter Inches	Screw Number		Thickness, U.S. Standard Gauge or Inches	
		Helicoid Flights	Sectional Flights	Trough	Cover
6	1-1/2	6H308	6S309	14Ga.	16Ga.
9	1-1/2	9H312	9S309	10Ga.	14Ga.
9	2	9H412	9S412	10Ga.	14Ga.
12	2	12H412	12S412	3/16"	14Ga.
12	2-7/16	12H512	12S512	3/16"	14Ga.
12	3	12H614	12S616	3/16"	14Ga.
14	2-7/16	—	14S512	3/16"	14Ga.
14	3	14H614	14S616	3/16"	14Ga.
16	3	16H614	16S616	3/16"	14Ga.
18	3	—	18S616	3/16"	12Ga.
20	3	—	20S616	3/16"	12Ga.
24	3-7/16	—	24S716	3/16"	12Ga.
30	3-15/16	—	30S824	1/4"	10Ga.
36	4-7/16	—	36S924	3/8"	3/16"

Table 1-10

Component Group 3					
Screw Diameter Inches	Coupling Diameter Inches	Screw Number		Thickness, U.S. Standard Gauge or Inches	
		Helicoid Flights	Sectional Flights	Trough	Cover
6	1-1/2	6H312	6S312	10Ga.	16Ga.
9	1-1/2	9H312	9S312	3/16"	14Ga.
9	2	9H414	9S416	3/16"	14Ga.
12	2	12H412	12S412	1/4"	14Ga.
12	2-7/16	12H512	12S512	1/4"	14Ga.
12	3	12H614	12S616	1/4"	14Ga.
14	3	—	14S624	1/4"	14Ga.
16	3	—	16S624	1/4"	14Ga.
18	3	—	18S624	1/4"	12Ga.
20	3	—	20S624	1/4"	12Ga.
24	3-7/16	—	24S724	1/4"	12Ga.
30	3-15/16	—	30S832	3/8"	10Ga.
36	4-7/16	—	36S932	3/8"	3/16"

Bearing Selection

The selection of bearing material for intermediate hangers is based on experience together with a knowledge of the characteristics of the material to be conveyed. By referring to the material characteristic tables, page H-7 thru H-15 the intermediate hanger bearing selection can be made by viewing the Bearing Selection column. The bearing selection will be made from one of the following types: B, L, S, H. The various bearing types available in the above categories can be selected from the following table.

Table 1-11

Hanger Bearing Selection				
Bearing Component Groups	**Bearing Types**	**Recommended Coupling Shaft Material △**	**Max. Recommended Operating Temperature**	**F_b**
B	Ball	Standard	180°F	1.0
L	Bronze	Standard	300°F	
S	Martin Bronze*	Standard	450°F	2.0
	Graphite Bronze	Standard	500°F	
	Oil Impregnated Bronze	Standard	200°F	
	Oil Impregnated Wood	Standard	160°F	
	Nylatron	Standard	250°F	
	Nylon	Standard	160°F	
	Teflon	Standard	250°F	
	UHMW	Standard	225°F	
	Melamine (MCB)	Standard	250°F	
	Ertalyte® Quadrent	Standard	200°F	
	Urethane	Standard	200°F	
H	Martin Hard Iron*	Hardened	500°F	3.4
	Hard Iron	Hardened	500°F	4.4
	Hard Surfaced	Hardened or Special	500°F	
	Stellite	Special	500°F	
	Ceramic	Special	1,000°F	
	White Iron Alloy	Special	500°F	

* Sintered Metal. Self-lubricating.

△ OTHER TYPES OF COUPLING SHAFT MATERIALS
Various alloys, stainless steel, and other types of shafting can be furnished as required.

Horizontal Screw Conveyors

***Consult Factory for Inclined Conveyors or Screw Feeders**

The horsepower required to operate a horizontal screw conveyor is based on proper installation, uniform and regular feed rate to the conveyor and other design criteria as determined in this book.

The horsepower requirement is the total of the horsepower to overcome friction (HP_f) and the horsepower to transport the material at the specified rate (HP_m) multiplied by the overload factor F_o and divided by the total drive efficiency, or:

$$HP_f = \frac{L\ N\ F_d f_b}{1{,}000{,}000} = \text{(Horsepower to run an empty conveyor)}$$

$$HP_m = \frac{C\ L\ W\ F_f\ F_m\ F_p}{1{,}000{,}000} = \text{(Horsepower to move the material)}$$

$$\text{Total HP} = \frac{(HP_f + HP_f)\ F_o}{e}$$

The following factors determine the horsepower requirement of a screw conveyor operating under the foregoing conditions.

- L = Total length of conveyor, feet
- N = Operating speed, RPM (revolutions per minute)
- F_d = Conveyor diameter factor (See Table 1-12)
- F_b = Hanger bearing factor (See Table 1-13)
- C = Capacity in cubic feet per hour
- W = Weight of material, lbs. per cubic foot
- F_f = Flight factor (See Table 1-14)
- F_m = Material factor (See Table 1-2)
- F_p = Paddle factor, when required. (See Table 1-15)
- F_o = Overload factor (See Table 1-16)
- e = Drive efficiency (See Table 1-17)

Table 1-12

Conveyor Diameter Factor, F_d	
Screw Diameter (Inches)	**Factor F_d**
4	12.0
6	18.0
9	31.0
10	37.0
12	55.0
14	78.0
16	106.0
18	135.0
20	165.0
24	235.0
30	365.0
36	540.0

Table 1-13

Hanger Bearing Selection		
Bearing Types		**Hanger Bearing F_b**
B	Ball	1.0
L	Martin Bronze	
S	* Graphite Bronze	2.0
	* Oil Impregnated Bronze	
	* Oil Impregnated Wood	
	* Nylatron	
	* Nylon	
	* Teflon	
	* UHMW	
	* Melamine (MCB)	
	* Ertalyte® Quadrent	
	* Urethane	
H	* Martin Hard Iron*	3.4
	* Hard Iron	4.4
	* Stellite	
	* Ceramic	
	* White Iron Alloy	

* Non lubricated bearings, or bearings not additionally lubricated.

Horsepower Factor Tables

Table 1-14

Flight Factor F_f				
Flight Type	F_f Factor for Percent Conveyor Loading			
	15%	30%	45%	95%
Standard	1.0	1.0	1.0	1.0
Cut Flight	1.10	1.15	1.20	1.3
Cut & Folded Flight	N.R.*	1.50	1.70	2.20
Ribbon Flight	1.05	1.14	1.20	—

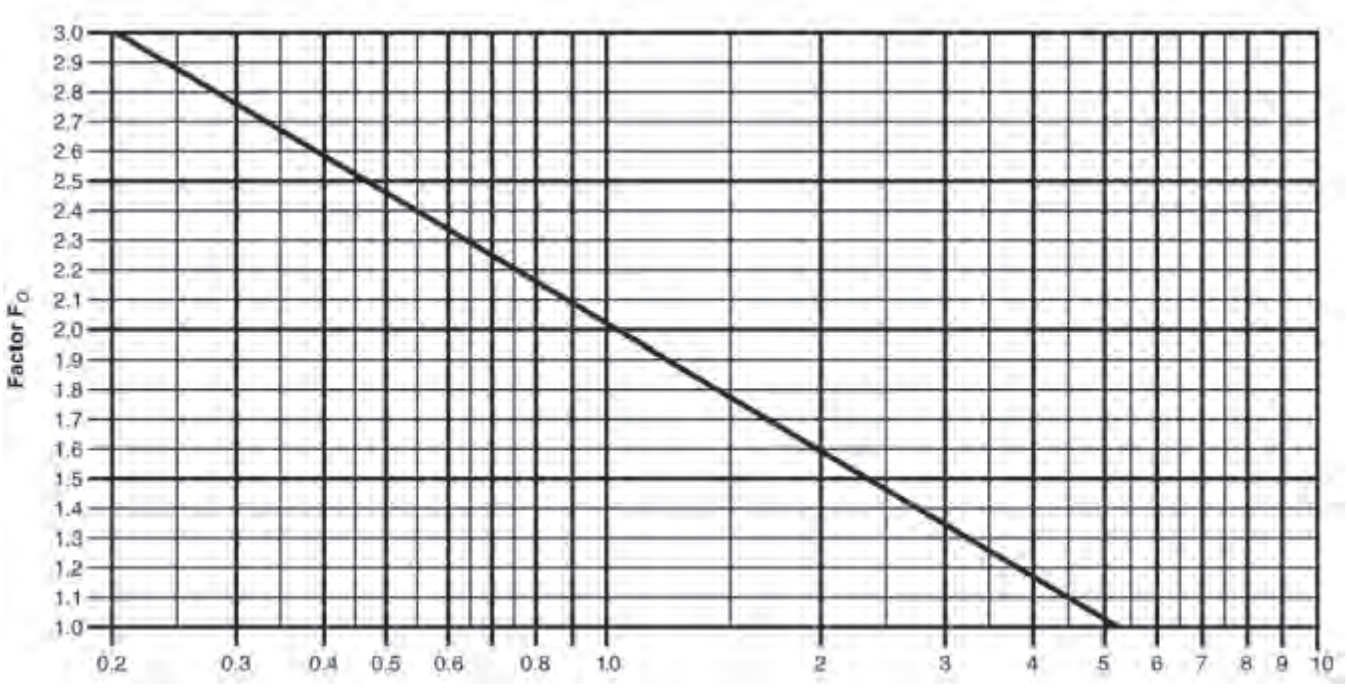
*Not Recommended

Table 1-15

Paddle Factor F_p					
Standard Paddles per Pitch, Paddles Set at 45° Reverse Pitch					
Number of Paddles per Pitch	0	1	2	3	4
Paddle Factor – F_p	1.0	1.29	1.58	1.87	2.16

Table 1-16

F_o – Overload Factor



Horsepower $HP_f + HP_m$

For values of $HP_f + HP_m$ greater than 5.2, F_o is 1.0

Trace the value of ($HP_f + HP_m$) vertically to the diagonal line, then across to the left where the F_o value is listed.

Table 1-17

e Drive Efficiency Factor				
Screw Drive or Shaft Mount w/V-Belt Drive	V-Belt to Helical Gear and Coupling	Gearmotor w/ Coupling	Gearmotor w/ Chain Drive	Worm Gear
.88	.87	.95	.87	Consult Manufacturer

EXAMPLE: Horsepower Calculation (See page H-173 for sample worksheet)

PROBLEM: Convey 1,000 cubic feet per hour Brewers grain, spent wet, in a 25'-0" long conveyor driven by a screw conveyor drive with V-belts.

SOLUTION:

1. Refer to material characteristic table 1-2 for Brewers grain, spent wet and find

   A . wt/cf: 55 - 60

   B . Material code: C1/2 - 45T

   Refer to Table 1-1, material classification code cha t where:

   C1/2 = Fine 1/2" and under

   4 = Sluggish

   5 = Mildly abrasive

   T = Mildly corrosive

   C . Intermediate bearing selection: L or S

   Refer to Table 1-11 Bearing Selection, Find:

   L = Bronze

   S = Nylatron, Nylon, Teflon, UHMW Melamine, Graphite Bronze, Oil-impreg. Bronze, and oil-impreg. wood and Urethane.

   D. Material Factor: $F_m = .8$

   E . Trough Loading: 30%A

   Refer to Table 1-6 capacity table and find 30%A which sh ws the various capacities per RPM of the standard size screw conveyors and the maximum RPM's for those sizes.

2 . From Table 1-6, Capacity table under 30%A note that a 12" screw will convey 1,160 cubic feet per hour at 90 RPM maximum, therefore at 1 RPM a 12" screw will convey 12.9 cubic feet. For 1,000 CFH capacity at 12.9 CFH per RPM, the conveyor must therefore run 78RPM (1000 ÷ 12.9 = 77.52).

3 . With the above information and factors from Tables 1-12 through 1-17 refer to the horsepower formulas on H-24 and calculate the required horsepower to convey 1000 CF/H for 25 feet in a 12" conveyor.

   Using the known factors find that

   L = 25'
   N = 78 RPM from step 2 above
   Fd = 55 see Table 1-12, for 12"
   Fb = 2.0 see Table 1-13 for L
   e = .88 see Table 1-17
   C = 1000 CFH
   W = 60#/CF from step 1A
   Ff = 1 see Table 1-14, standard 30%
   Fp = 1 see Table 1-15

4 . Solve the following horsepower equations:

   A . $HP_f = \frac{L\ N\ F_d\ F_b}{1{,}000{,}000} = \frac{25 \times 78 \times 55 \times 2.0}{1{,}000{,}000} = 0.215$

   B . $HP_m = \frac{C\ L\ W\ F_f\ F_m\ F_p}{1{,}000{,}000} = \frac{1000 \times 25 \times 60 \times 1 \times .8 \times 1}{1{,}000{,}000} = 1.2$

   Find the F_o factor from 1-16; by adding HP_f and HP_m and matching this sum to the values on the chart.

   C . $HP_f = \frac{(HP_f + HP_m)\ (F_o)}{e} = \frac{(1.414)\ (1.9)}{.88} = 3.05$

SOLUTION: 3.05 Horsepower is required to convey 1,000 CFH Brewers grain, spent wet in a 12" conveyor for 25 feet. A 5 H.P. motor should be used.

Torsional Ratings of Conveyor Screw Parts

Martin

Screw conveyors are limited in overall design by the amount of torque that can be safely transmitted through the pipes, couplings, and coupling bolts.

The table below combines the various torsional ratings of bolts, couplings and pipes so that it is easy to compare the torsional ratings of all the stressed parts of standard conveyor screws.

Table 1-18

Shaft Dia. In.	Pipe		Couplings		Dia. In.	Bolts					
	Size In.	Torque In. Lbs.	Torque In. Lbs. *			Bolts in Shear T_1 In. Lbs. ▲			Bolts in Shear T_2 In. Lbs.		
			C-1018	C-1045		No. of Bolts Used			No. of Bolts Used		
		T_3	T_4	T_5		1	2	3	1	2	3
1	1-1/4	3,140	820	1,025	3/8	690	1,380	2,070	985	1,970	2,955
1-1/2	2	7,500	3,070	3,850	1/2	1,830	3,660	5,490	2,500	5,000	7,500
2	2-1/2	14,250	7,600	9,500	5/8	3,800	7,600	11,400	3,930	7,860	11,790
2-7/16	3	23,100	15,030	18,780	5/8	4,635	9,270	13,900	5,820	11,640	17,460
3	3-1/2	32,100	28,350	35,440	3/4	8,200	16,400	24,600	7,770	15,540	23,310
3	4	43,000	28,350	35,440	3/4	8,200	16,400	24,600	12,500	25,000	37,500
3-7/16	4	43,300	42,470	53,080	7/8	12,800	25,600	38,400	10,900	21,800	32,700
3-15/16	5	65,100	61,190	76,485	1-1/8	24,270	48,540	72,810	26,060	52,120	78,180
4-7/16	6	101,160	88,212	110,265	1-1/4	33,760	67,520	101,280	45,375	90,750	136,125

▲ Values shown are for A307-64, Grade 2 Bolts. Values for Grade 5 Bolts are above × 2.5.
* Values are for unheattreated shafts.

The lowest torsional rating figu e for any given component will be the one that governs how much torque may be safely transmitted. For example, using standard unhardened two bolt coupling shafts, the limiting torsional strength of each part is indicated by the underlined figu es in Table 1-18.

Thus it can be seen that the shaft itself is the limiting factor on 1", 1-1/2" and 2" couplings. The bolts in shear are the limiting factors on the 2-7/16" coupling and on the 3" coupling used in conjunction with 4" pipe. The bolts in bearing are the limiting factors for the 3" coupling used in conjunction with 3-1/2" pipe, and for the 3-7/16" coupling.

FORMULA: Horsepower To Torque (In. Lbs.)

$$\frac{63{,}025 \times HP}{RPM} = \text{Torque (In. Lbs.)}$$

EXAMPLE: 12" Screw, 78 RPM, 5 Horsepower

$$\frac{63{,}025 \times 5}{78} = 4{,}040 \text{ In. Lbs.}$$

From the table above 2" shafts with 2 bolt drilling and 2-1/2" std. pipe are adequate (4,040 < 7600).

If the torque is greater than the values in the above table, such as in 2" couplings (torque > 7600), then hardened shafts can be used as long as the torque is less than the value for hardened couplings (torque < 9500). If the torque is greater than the 2 bolt in shear value but less than the 3 bolt in shear value then 3 bolt coupling can be used. The same applies with bolts in bearing. When the transmitted torque is greater than the pipe size value, then larger pipe or heavier wall pipe may be used. Other solutions include: high torque bolts to increase bolt in shear rating, external collars, or bolt pads welded to pipe to increase bolt in bearing transmission. For solutions other than those outlined in the above table please consult our Engineering Department.

Horsepower Ratings of Conveyor Screw Parts

Screw conveyors are limited in overall design by the amount of horsepower that can be safely transmitted through the pipes, couplings, and coupling bolts.

The table below combines the various horsepower ratings of bolts, couplings and pipes so that it is easy to compare the ratings of all the stressed parts of standard conveyor screws.

Table 1-19

Coupling	Pipe		Coupling		Bolts				
Shaft Dia. In.	Size In.	H.P. per R.P.M.	H.P. per R.P.M		Bolt Dia. In.	Bolts in Shear H.P. per R.P.M. ▲		Bolts in Bearing H.P. per R.P.M.	
			CEMA Std (C-1018)	Martin Std. (C-1018)		No. of Bolts Used		No. of Bolts Used	
						2	3	2	3
1	1-1/4	.049	.013	.016	3/8	.021	.032	.031	.046
1-1/2	2	.119	.048	.058	1/2	.058	.087	.079	.119
2	2-1/2	.226	.120	.146	5/8	.120	.180	.124	.187
2-7/16	3	.366	.239	.289	5/8	.147	.220	.184	.277
3	3-1/2	.509	.450	.546	3/4	.260	.390	.246	.369
3	4	.682	.450	.546	3/4	.260	.390	.396	.595
3-7/16	4	.682	.675	.818	7/8	.406	.609	.345	.518
3	3-1/2	.509	.450	.546	3/4	.260	.390	.246	.369

▲ Values shown are for A307-64, Grade 2 Bolts.

The lowest horsepower rating figu e for any given component will be the one that governs how much horsepower may be safely transmitted. The limiting strength of each part is indicated by the underlined figu es in the table above.

FORMULA: Horsepower To Horsepower @ 1 RPM)

EXAMPLE: 12" Screw, 78 RPM, 5 Horsepower

$$\frac{5\ HP}{78\ RPM} = 0.06\ HP\ at\ 1\ RPM$$

From the table above .038 is less than the lowest limiting factor for 2" couplings, so 2" standard couplings with 2 bolts may be used. Solutions to limitations are the same as shown on H-26.

Screw Conveyor End Thrust Thermal Expansion

End thrust in a Screw Conveyor is created as a reaction to the forces required to move the material along the axis of the conveyor trough. Such a force is opposite in direction to the flow of material. A thrust bearing and sometimes reinforcement of the conveyor trough is required to resist thrust forces. Best performance can be expected if the conveyor end thrust bearing is placed so that the rotating members are in tension; therefore, an end thrust bearing should be placed at the discharge end of a conveyor. Placing an end thrust bearing assembly at the feed end of a conveyor places rotating members in compression which may have undesirable effects, but this is sometimes necessary in locating equipment.

There are several methods of absorbing thrust forces, the most popular methods are:

1. Thrust washer assembly — installed on the shaft between the pipe end and the trough end plate, or on the outside of the end bearing.
2. Type “E” end thrust assembly, which is a Double Roller Bearing and shaft assembly.
3. Screw Conveyor Drive Unit, equipped with double roller bearing thrust bearings, to carry both thrust and radial loads.

Past experience has established that component selection to withstand end thrust is rarely a critical factor and thrust is not normally calculated for design purposes. Standard conveyor thrust components will absorb thrust without resorting to special design in most applications.

Expansion of Screw Conveyors Handling Hot Materials

Screw conveyors often are employed to convey hot materials. It is therefore necessary to recognize that the conveyor will increase in length as the temperature of the trough and screw increases when the hot material begins to be conveyed.

The recommended general practice is to provide supports for the trough which will allow movement of the trough end feet during the trough expansion, and during the subsequent contraction when handling of the hot material ceases. The drive end of the conveyor usually is fi ed, allowing the remainder of the trough to expand or contract. In the event there are intermediate inlets or discharge spouts that cannot move, the expansion type troughs are required.

Furthermore, the conveyor screw may expand or contract in length at different rates than the trough. Therefore, expansion hangers are generally recommended. The trough end opposite the drive should incorporate an expansion type ball or roller bearing or sleeve bearing which will safely provide sufficient movement.

The change in screw conveyor length may be determined from the following formula:

$\Delta L = L\ (t1 - t2)\ C$

Where: ΔL = increment of change in length, inch
L = overall conveyor length in inches
t_1 = upper limit of temperature, degrees Fahrenheit
t_2 = limit of temperature, degrees Fahrenheit (or lowest ambient temperature expected)
C = coefficient of linear expansion, inches per inch per degree Fahrenheit. This coefficient has the following values for various metals:

a) Hot rolled carbon steel, 6.5×10^{-6}, (.0000065)
b) Stainless steel, 9.9×10^{-6}, (.0000099)
c) Aluminum, 12.8×10^{-6}, (.0000128)

EXAMPLE: A carbon steel screw conveyor 30 feet overall length is subject to a rise in temperature of 200°F, reaching a hot metal temperature of 260°F from an original metal temperature of 60°F.

$t_1 = 260$ $t_1 - t_2 = 200$
$t_2 = 60$
$L = (30)\ (12) = 360$
$\Delta L = (360)\ (200)\ (6.5\times10{-}6)$
$= 0.468$ inches, or about 15/32 inches.

Conveyor Screw Deflection

When using conveyor screws of standard length, deflection is seldom a problem. However, if longer than standard sections of screw are to be used, without intermediate hanger bearings, care should be taken to prevent the screw flights from contacting the trough because of excessive deflection. The deflection at mid span may be calculated from the following formula.

$$D = \frac{5WL^3}{384\ (29{,}000{,}000)\ (I)}$$

Where: D = Deflection at mid span in inches
W = Total screw weight in pounds, see pages H-79 to H-84
L = Screw length in inches
I = Movement of inertia of pipe or shaft, see table 1-20 or 1-21 below

Table 1-20

Schedule 40 Pipe									
Pipe Size	**2"**	**2-1/2"**	**3"**	**3-1/2"**	**4"**	**5"**	**6"**	**8"**	**10"**
I	.666	1.53	3.02	4.79	7.23	15.2	28.1	72.5	161

Table 1-21

Schedule 80 Pipe									
Pipe Size	**2"**	**2-1/2"**	**3"**	**3-1/2"**	**4"**	**5"**	**6"**	**8"**	**10"**
I	.868	1.92	3.89	6.28	9.61	20.7	40.5	106	212

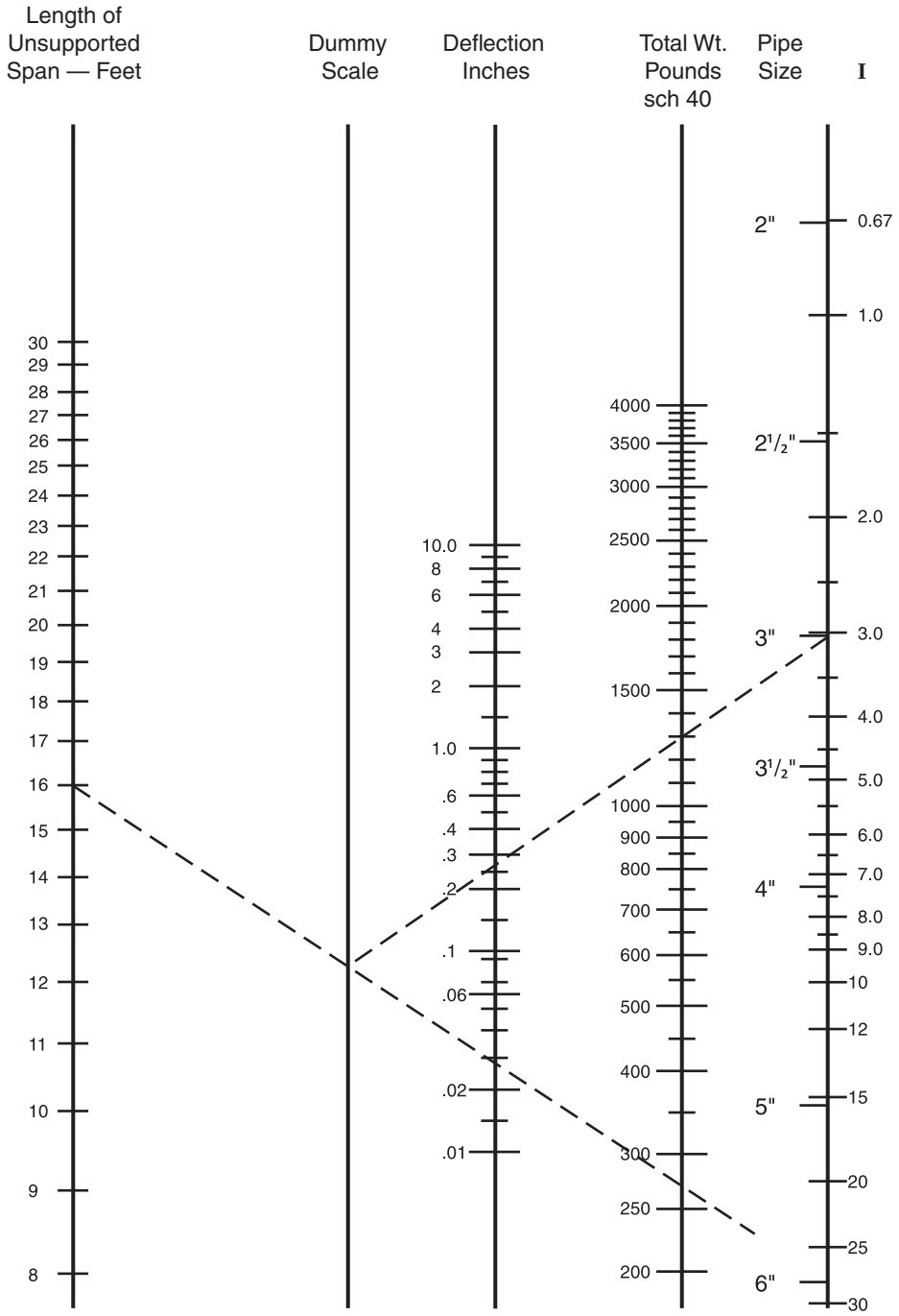
EXAMPLE: Determine the deflection of a 12H512 screw conveyor section mounted on 3" sch 40 pipe, overall length is 16"-0'.

W = 272#
L = 192"
I = 3.02 (From chart above

$$D = \frac{5(272\#)(192^3)}{384\ (29{,}000{,}000)\ (3.02)} = .29 \text{ inches}$$

Applications where the calculated deflection of the screw exceeds .25 inches (1/4") should be referred to our Engineering Department for recommendations. Very often the problem of deflection can be solved by using a conveyor screw section with a larger diameter pipe or a heavier wall pipe. Usually, larger pipe sizes tend to reduce deflection more effectively than heavier wall pipe.

Conveyor Screw Deflection



I = Moment of inertia of pipe or shaft, see Table 1-20 or 1-21

The above Nomograph can be used for a quick reference to check deflection of most conveyors.

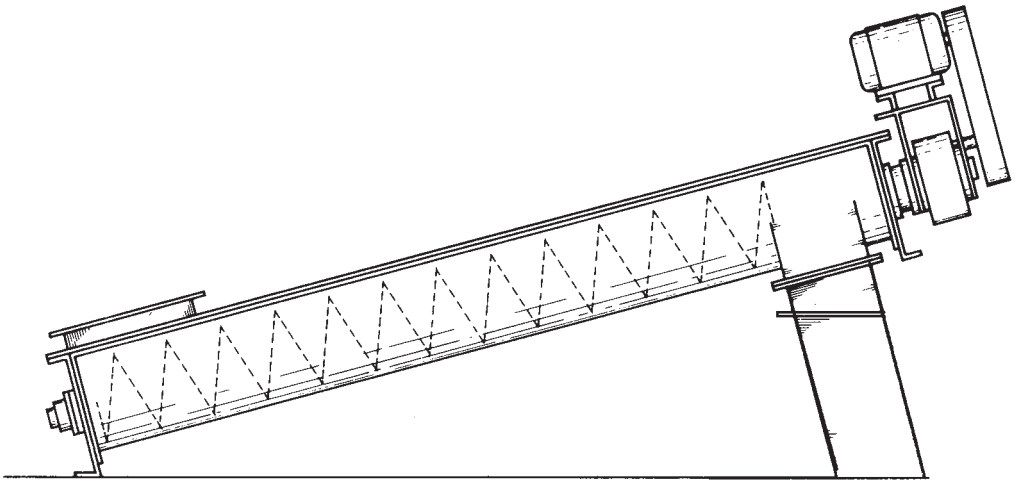
Inclined and Vertical Screw Conveyors

Inclined Screw Conveyors

Inclined screw conveyors have a greater horsepower requirement and a lower capacity rating than horizontal conveyors. The amounts of horsepower increase and capacity loss depend upon the angle of incline and the characteristics of the material conveyed.

Inclined conveyors operate most efficiently when they are of tubular or shrouded cover design, and a minimum number of intermediate hanger bearings. Where possible, they should be operated at relatively high speeds to help prevent fallback of the conveyed material.

Consult our Engineering Department for design recommendations and horsepower requirements for your particular application.



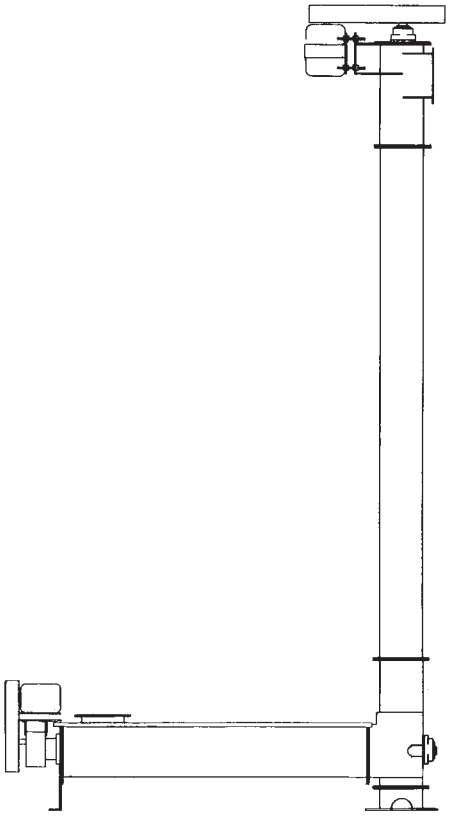
Vertical Screw Conveyors

Vertical screw conveyors provide an efficient method of elevating most materials that can be conveyed in horizontal screw conveyors. Since vertical conveyors must be uniformly loaded in order to prevent choking, they are usually designed with integral feeders.

As with horizontal conveyors, vertical screw conveyors are available with many special features and accessories, including components of stainless steel or other alloys.

Consult our Engineering Department for design recommendations and horsepower requirements for your particular application.

SEE VERTICAL SCREW CONVEYOR SECTION OF CATALOG FOR ADDITIONAL INFORMATION.



Screw Feeders

Screw Feeders are designed to regulate the rate of material flow from a hopper or bin. The inlet is usually flooded with material (95% loaded). One or more tapered or variable pitch screws convey the material at the required rate. Screw feeders are regularly provided with shrouded or curved cover plates for a short distance beyond the end of the inlet opening, to obtain feed regulation. As the pitch or diameter increases beyond the shroud the level of the material in the conveyor drops to normal loading levels. Longer shrouds, extra short pitch screws and other modifications a e occasionally required to reduce flushing of ery free flowing material along the feeder screw.

Feeders are made in two general types: Type 1 with regular pitch flighting and Type 2 with short pitch flighting. Both types are also available with uniform diameter and tapering diameter screws. The various combinations are shown on pages H-33 – H-34. Screw feeders with uniform screws, Types 1B, 1D, 2B, 2D are regularly used for handling fine f ee flowing materials. Since the diameter of the screw is uniform, the feed of the material will be from the forepart of the inlet and not across the entire length. Where hoppers, bins, tanks, etc. are to be completely emptied, or dead areas of material over the inlet are not objectionable, this type of feeder is entirely satisfactory, as well as economical. Screw feeders with tapering diameter screws will readily handle materials containing a fair percentage of lumps. In addition, they are used extensively where it is necessary or desirable to draw the material uniformly across the entire length of the inlet opening to eliminate inert or dead areas of material at the forepart of the opening. Types 1A, 1C, 2A, and 2C fall into this category. Variable pitch screws can be used in place of tapering diameter screws for some applications. They consist of screws with succeeding sectional flights increasing progressively in pitch. The portion of the screw with the smaller pitch is located under the inlet opening.

Screw feeders with extended screw conveyors are necessary when intermediate hangers are required, or when it is necessary to convey the material for some distance. A screw conveyor of larger diameter than the feeder screw is combined with the feeder to make the extension. See types 1C, 1D, 2C, 2D.

Multiple screw feeders are usually in flat bottom bins for discharging material which have a tendency to pack or bridge under pressure. Frequently, the entire bin bottom is provided with these feeders which convey the material to collecting conveyors. Such arrangements are commonly used for handling hogged fuel, wood shavings, etc.

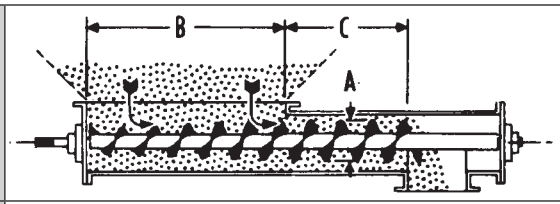
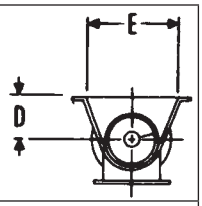
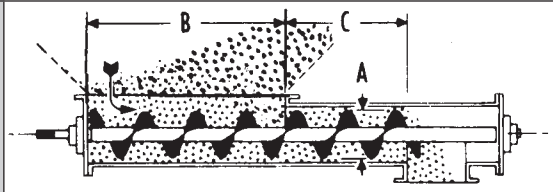
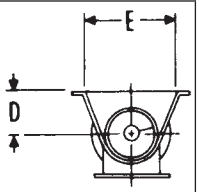
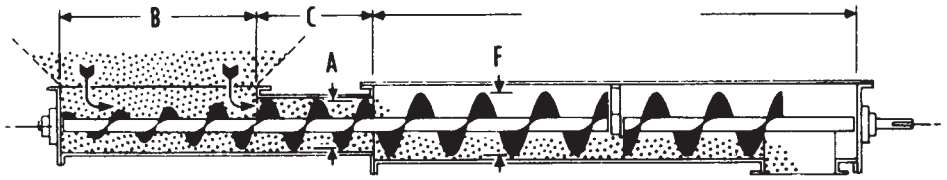
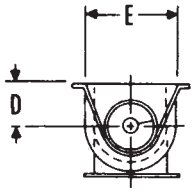
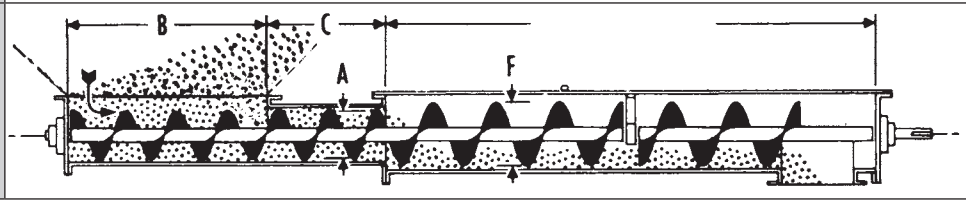
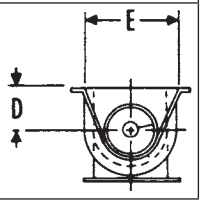
Screw feeders are available in a variety of types to suit specific ma erials and applications. We recommend that you contact our Engineering Department for design information.

Screw Feeders

(For Inclined Applications Consult Factory)

Typical Type 1

Feeder Type	Inlet Opening	Material Removal	Pitch	Feeder Screw Diameter	Extended Screw
SF1A	Standard	Uniform Full Length of Inlet Opening	Standard	Tapered	None
SF1B	Standard	Forepart Only of Inlet Opening	Standard	Uniform	None
SF1C	Standard	Uniform Full Length of Inlet Opening	Standard	Tapered	As Required
SF1D	Standard	Forepart Only of Inlet Opening	Standard	Uniform	As Required

SF1A		
SF1B		
SF1C		
SF1C		

Feeder Diameter A	Maximum Lump Size	Maximum Speed RPM	Capacity Cubic Feet per Hour		B*	C	D	E	Extended Screw Diameter F		
			At Once RPM	At Maximum RPM					Trough Loading %		
									15	30	45
6	3/4"	70	4.8	336	36	12	7	14	12	9	9
9	1-1/2”	65	17	1105	42	18	9	18	18	14	12
12	2"	60	44	2640	48	24	10	22	24	18	16
14	2-1/2”	55	68	3740	54	28	11	24		20	18
16	3"	50	104	5200	56	32	11-1/2	28		24	20
18	3"	45	150	6750	58	36	12-1/8	31			24
20	3-1/2”	40	208	8320	60	40	13-1/2	34			
24	4"	30	340	10200	64	48	16-1/2	40			

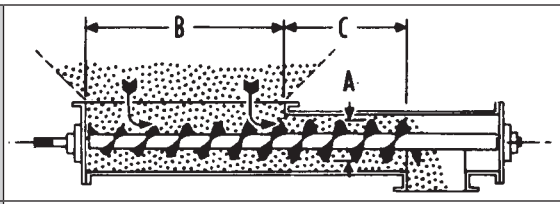
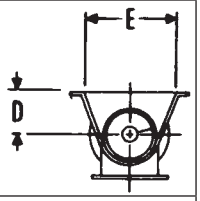
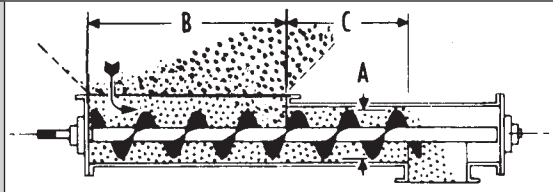
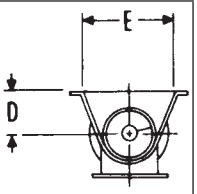
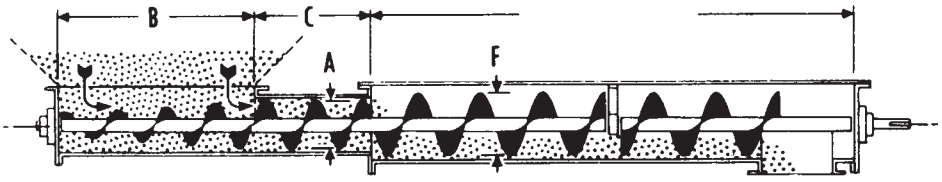
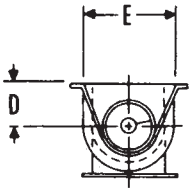
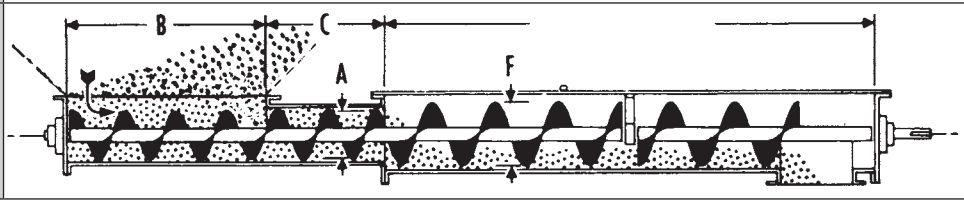
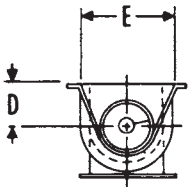
* Consult factory if inlet exceeds these lengths.

Screw Feeders

(For Inclined Applications Consult Factory)

Typical Type 2

Feeder Type	Inlet Opening	Material Removal	Pitch	Feeder Screw Diameter	Extended Screw
SF2A	Long	Uniform Full Length of Inlet Opening	Short (2/3)	Tapered	None
SF2B	Long	Forepart Only of Inlet Opening	Short (2/3)	Uniform	None
SF2C	Long	Uniform Full Length of Inlet Opening	Short (2/3)	Tapered	As Required
SF2D	Long	Forepart Only of Inlet Opening	Short (2/3)	Uniform	As Required

SF2A		
SF2B		
SF2C		
SF2C		

Feeder Diameter A	Maximum Lump Size	Maximum Speed RPM	Capacity Cubic Feet per Hour		B*	C	D	E	Extended Screw Diameter F		
			At Once RPM	At Maximum RPM					Trough Loading %		
									15	30	45
6	1/2"	70	3.1	217	60	18	7	14	10	9	9
9	3/4"	65	11	715	66	26	9	18	14	12	10
12	1"	60	29	1740	72	36	10	22	20	16	14
14	1-1/4"	55	44	2420	76	42	11	24	24	18	16
16	1-1/2"	50	68	3400	78	48	11-1/2	28	20	18	20
18	1-3/4"	45	99	4455	80	54	12-1/8	31	24	20	24
20	2"	40	137	5480	82	60	13-1/2	34	24		
24	2-1/2"	30	224	6720	86	72	16-1/2	40			

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HAND OF CONVEYORS H-37
CLASSIFICATION OF SPECIAL CONTINUOUS WELD FINISHES H-38
DETAILING OF “U" TROUGH H-39
DETAILING OF TUBULAR TROUGH H-40
DETAILING OF TROUGH AND DISCHARGE FLANGES H-41
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SCREW CONVEYOR DRIVE ARRANGEMENTS H-46
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SCREW CONVEYOR SAMPLE HORSEPOWER WORKSHEET H-173

Classes of Enclosures

Conveyors can be designed to protect the material being handled from a hazardous surrounding or to protect the surroundings from a hazardous material being conveyed.

This section establishes recommended classes of construction for conveyor enclosures — without regard to their end use or application. These several classes call for specific things to be done to a standard conveyor housing to provide several degrees of enclosure protection.

Enclosure Classifications

Class IE — Class IE enclosures are those provided primarily for the protection of operating personnel or equipment, or where the enclosure forms an integral or functional part of the conveyor or structure. They are generally used where dust control is not a factor or where protection for, or against, the material being handled is not necessary — although as conveyor enclosures a certain amount or protection is afforded.

Class IIE — Class IIE enclosures employ constructions which provide some measure of protection against dust or for, or against, the material being handled.

Class IIIE — Class IIIE enclosures employ constructions which provide a higher degree of protection in these classes against dust, and for or against the material being handled.

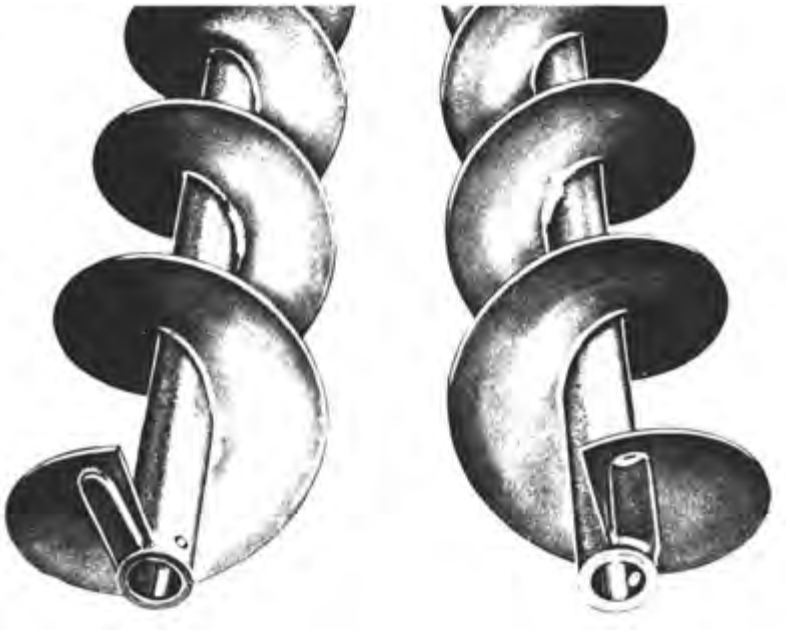
Class IVE — Class IVE enclosures are for outdoor applications and under normal circumstances provide for the exclusion of water from the inside of the casing. They are not to be construed as being water-tight, as this may not always be the case.

When more than one method of fabrication is shown, either is acceptable.

Enclosure Construction				
Component Classification	Enclosure Classifications			
	I E	II E	III E	IV E
A. TROUGH CONSTRUCTION				
Formed & Angle Top Flange				
1. Plate type end flange				
a. Continuous arc weld	X	X	X	X
b. Continuous arc weld on top of end flange and trough top rail	X	X	X	X
2. Trough Top Rail Angles (Angle Top trough only)				
a. Staggered intermittent arc and spot weld	X			
b. Continuous arc weld on top leg of angle on inside of trough and intermittent arc weld on lower leg of angle to outside of trough		X	X	X
c. Staggered intermittent arc weld on top leg of angle on inside of trough and intermittent arc weld on lower leg of angle to outside of trough, or spot weld when mastic is used between leg of angle and trough sheet		X	X	X
B. COVER CONSTRUCTION				
1. Plain flat				
a. Only butted when hanger is at cover joint	X			
b. Lapped when hanger is not at cover joint	X			
2. Semi-Flanged				
a. Only butted when hanger is at cover joint	X	X	X	X
b. Lapped when hanger is not at cover joint	X			
c. With buttstrap when hanger is not at cover joint		X	X	X
3. Flanged				
a. Only butted when hanger is at cover joint		X	X	X
b. Buttstrap when hanger is not at cover joint		X	X	X
4. Hip Roof				
a. Ends with a buttstrap connection				X
C. COVER FASTENERS FOR STANDARD GA. COVERS				
1. Spring, screw or toggle clamp fasteners or bolted construction				
a. Max. spacing plain flat covers	60"			
b. Max. spacing semi-flanged covers	60"	30"	18"	18"
c. Max. spacing flanged and hip-roof covers		40"	24"	24"
D. GASKETS				
1. Covers				
a. Red rubber or felt up to 230° F		X	X	
b. Neoprene rubber, when contamination is a problem		X	X	
c. Closed cell foam type elastic material to suit temperature rating of gasket		X	X	X
2. Trough End flanges				
a. Mastic type compounds		X	X	X
b. Red rubber up to 230° F		X	X	X
c. Neoprene rubber, when contamination is a problem		X	X	
d. Closed cell foam type elastic material to suit temperature rating of gasket		X	X	X
E. TROUGH END SHAFT SEALS*				
1. When handling non-abrasive materials			X	X
2. When handling abrasive materials	X	X	X	X

***NOTES:**
- Lip type seals for non-abrasive materials
- Felt type for mildly abrasive materials
- Waste type for highly abrasive materials
- Waste type for moderately abrasive
- Air purged Martin Super Pack for extremely abrasive
- Bulk Heads may be required for abrasive & hot materials

WARNING: CHECK MATERIAL TEMPERATURE.



Right and Left Hand Screws

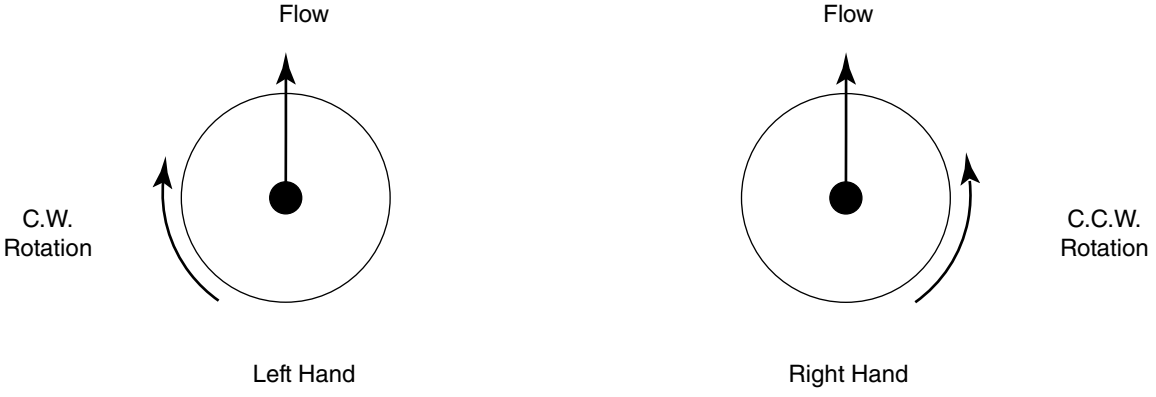
A conveyor screw is either right hand or left hand depending on the form of the helix. The hand of the screw is easily determined by looking at the end of the screw.

The screw pictured to the left has the flight helix wrapped around the pipe in a counter-clockwise direction, or to your left. Same as left hand threads on a bolt. This is arbitrarily termed a LEFT hand screw.

The screw pictured to the right has the flight helix wrapped around the pipe in a clockwise direction, or to your right. Same as right hand threads on a bolt. This is termed a RIGHT hand screw.

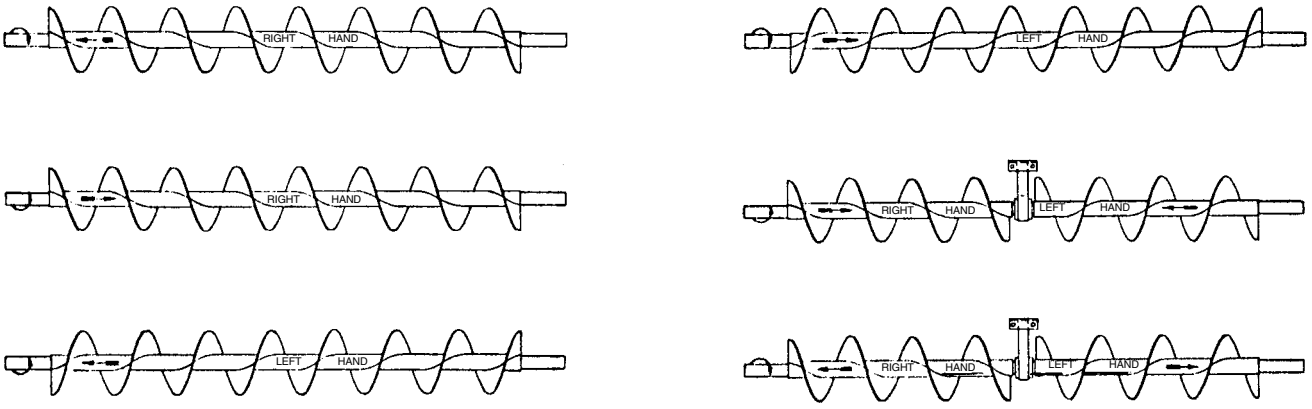
A conveyor screw viewed from either end will show the same configuration. If the end of the conveyor screw is not readily visible, then by merely imagining that the flighting has been cut, with the cut end exposed, the hand of the screw may be easily determined.

Conveyor Screw Rotation



The above diagrams are a simple means of determining screw rotation. When the material flow is in the direction away from the end being viewed, a R.H. screw will turn counter clockwise and a L.H. screw will turn clockwise rotation as shown by the arrows.

Conveyor Screw Rotation



The above diagram indicates the hand of conveyor screw to use when direction of rotation and material flow are known.

Special Screw Conveyor Continuous Weld Finishes

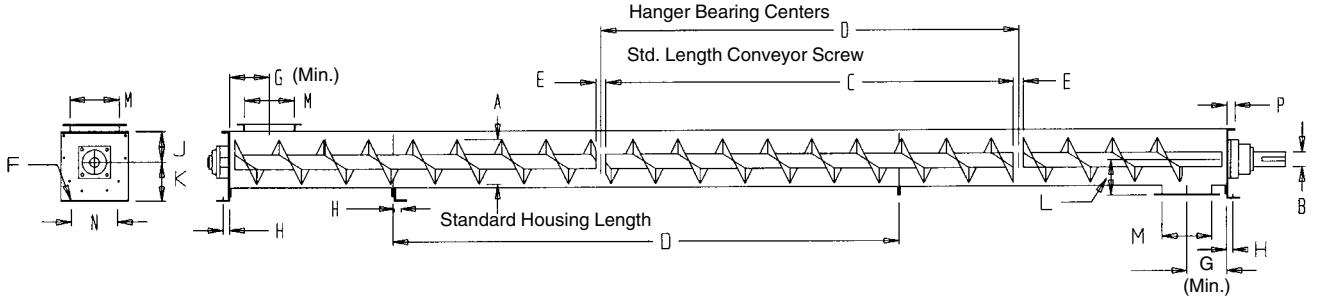
Specifications on screw conveyor occasionally include the term “grind smooth" when referring to the finish on continuous welds. This specification is usually used for stainless steel, but occasionally it will appear in carbon steel specifications as well.

“Grind smooth" is a general term and subject to various interpretations. This Table establishes recommended classes of finishes, which should be used to help find the class required for an application.

Operation	Weld Finishes			
	I	II	III	IV
Weld spatter and slag removed	X	X	X	X
Rough grind welds to remove heavy weld ripple or unusual roughness (Equivalent to a 40-50 grit finish)		X		
Medium grind welds — leaving some pits and crevices (Equivalent to a 80-100 grit finish)			X	
Fine grind welds — no pits or crevices permissible (Equivalent to a 140-150 grit finish)				X

* Martin IV Finish: CEMA IV welds, polish pipe & flights to 140-150 grit finish.
* Martin IV Polish: Same as above plus Scotch-Brite Finish.

Trough

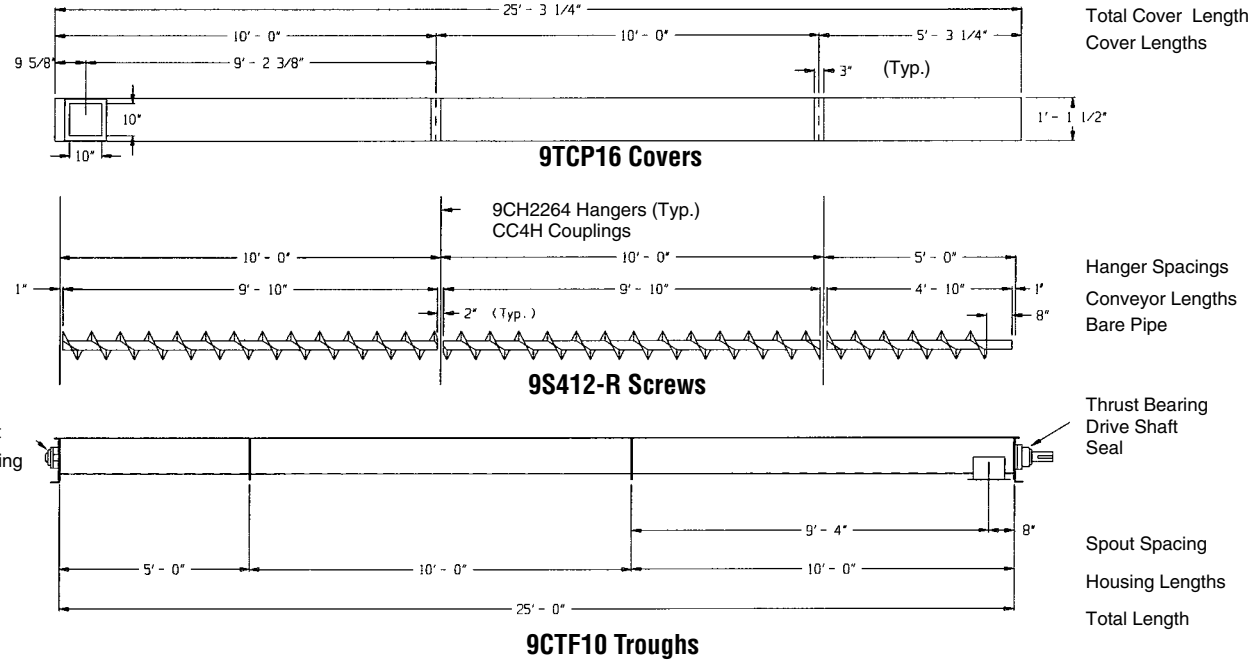


A Screw Dia.	B Coupling Dia.	C Length	D Length	E	F	G (Min.)	H	J	K	L	M	N	P	R
4	1	9-10½	10	1½	⅜	4½	⅞	3⅝	4⅝	3¾	5	5¾	1 7/16	1
6	1½	9-10	10	2	⅜	6	13/16	4½	5⅝	5	7	8⅛	1½	1
9	1½ 2	9-10	10	2	½	8	1 5/16	6⅛	7⅞	7⅛	10	9⅜	1⅝	1½
10	1½ 2	9-10	10	2	½	9	1 9/16	6⅜	8⅞	7⅛	11	9½	1¾	1¾
12	2 2 7/16 3	11-10 11-9 11-9	12	2 3 3	⅝	10½	1⅜	7¾	9⅝	8⅞	13	12¼	2	1⅝
14	2 7/16 3	11-9	12	3	⅝	11½	1⅜	9¼	10⅞	10⅛	15	13½	2	1⅝
16	3	11-9	12	3	⅝	13½	1¾	10⅝	12	11⅛	17	14⅞	2½	2
18	3 3 7/16	11-9 11-8	12	3 4	⅝	14½	1¾	12⅛	13⅜	12⅜	19	16	2½	2
20	3 3 7/16	11-9 11-8	12	3 4	¾	15½	2	13½	15	13⅜	21	19¼	2½	2¼
24	3 7/16	11-8	12	4	¾	17½	2¼	16½	18⅛	15⅜	25	20	2½	2½

Screw clearance at trough end is one half of dimension E.

Typical Method of Detailing

9" × 2" × 25'-0" Conveyor

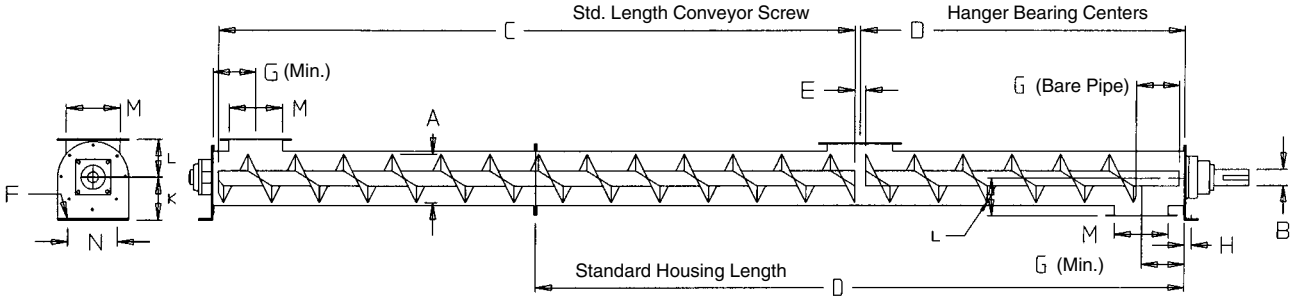


9TCP16 Covers

9S412-R Screws

9CTF10 Troughs

Tubular Housing

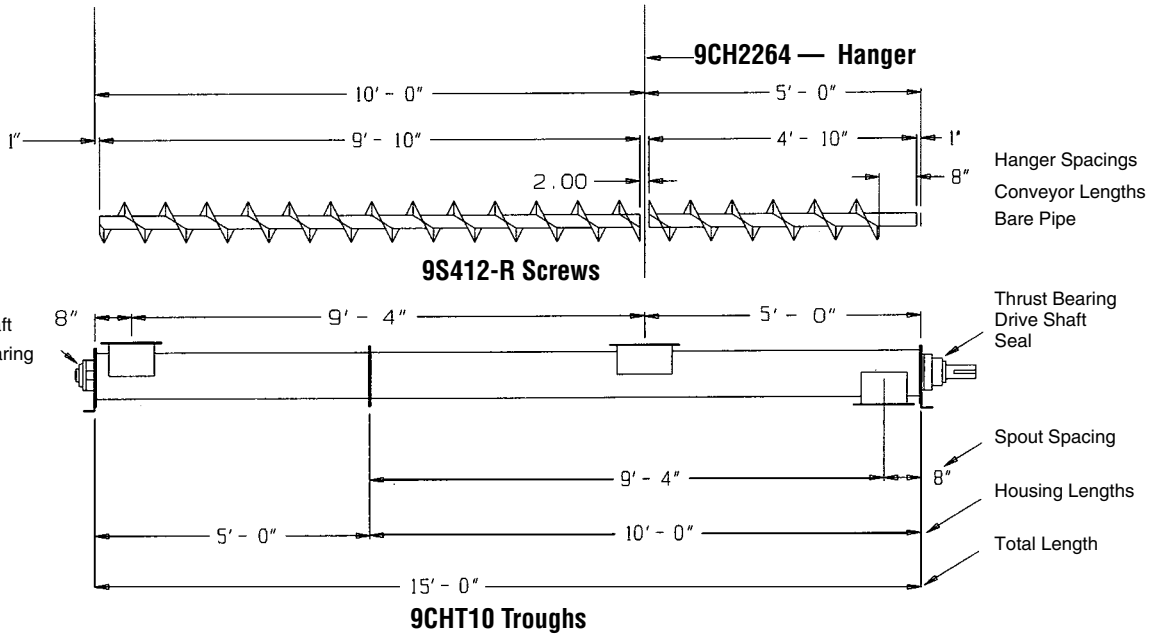


A Screw Dia.	B Coupling Dia.	C Length	D Length	E	F	G (Min.)	H	K	L	M	N	P	R
4	1	9-10½	10	1½	⅜	4½	⅞	4⅝	3¾	5	5¾	1 7/16	1
6	1½	9-10	10	2	⅜	6	13/16	5⅝	5	7	8⅛	1½	1
9	1½ 2	9-10	10	2	½	8	1 5/16	7⅞	7⅛	10	9⅜	1⅝	1½
10	1½ 2	9-10	10	2	½	9	1 9/16	8⅞	7⅞	11	9½	1¾	1¾
12	2 2 7/16 3	11-10 11-9 11-9	12	2 3 3	⅝	10½	1⅜	9⅝	8⅞	13	12¼	2	1⅝
14	2 7/16 3	11-9	12	3	⅝	11½	1⅜	10⅞	10⅛	15	13½	2	1⅝
16	3	11-9	12	3	⅝	13½	1¾	12	11⅛	17	14⅞	2½	2
18	3 3 7/16	11-9 11-8	12	3 4	⅝	14½	1¾	13⅜	12⅜	19	16	2½	2
20	3 3 7/16	11-9 11-8	12	3 4	¾	15½	2	15	13⅜	21	19¼	2½	2¼
24	3 7/16	11-8	12	4	¾	17½	2¼	18⅛	15⅜	25	20	2½	2½

Screw clearance at trough end is one half of dimension E.

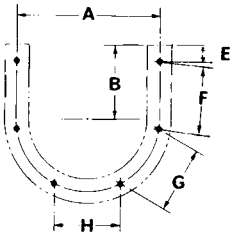
Typical Method of Detailing

9" × 2" × 15'-0" Conveyor

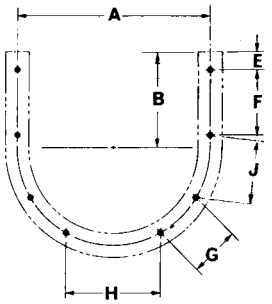


Bolt Patterns

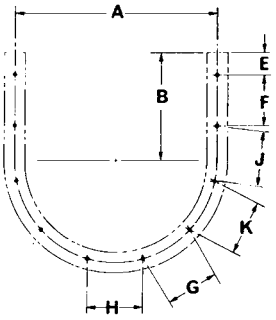
U-Trough End Flanges



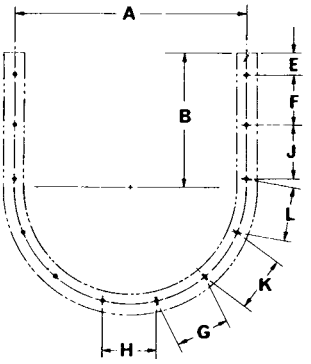
6 Bolts



8 Bolts



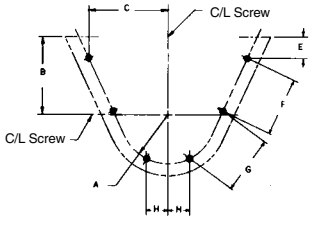
10 Bolts



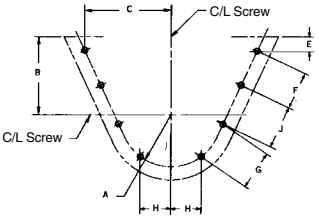
12 Bolts

Screw Diameter	Bolts		A	B	E	F	G	H	J	K	L
	Number	Diameter									
4	6	⅜	7	3⅝	1⅛	3⅛	3⅛	3⅛	X	X	X
6	6	⅜	8⅞	4½	1 1/32	4⅛	4 1/16	4 1/16	X	X	X
9	8	⅜	12½	6⅛	1 3/16	4⅛	3¾	5⅛	4⅛	X	X
10	8	⅜	13¼	6⅜	2¼	3½	4 3/16	5 1/16	4⅛	X	X
12	8	½	15⅞	7¾	1½	5 5/16	4 1/16	7¾	5 3/16	X	X
14	8	½	17⅞	9¼	2 17/32	5⅝	5 15/16	6	5 15/16	X	X
16	8	⅝	20	10⅝	2⅝	6⅜	6⅝	7½	6⅝	X	X
18	10	⅝	22	12⅛	2 23/32	5 15/16	5⅞	5⅞	5⅞	5⅞	X
20	10	⅝	24⅜	13½	2 25/32	6¼	6 11/16	6 11/16	6 11/16	6 11/16	X
24	12	⅝	28½	16½	2 25/32	6⅛	6⅝	6⅝	6⅝	6⅝	6⅝

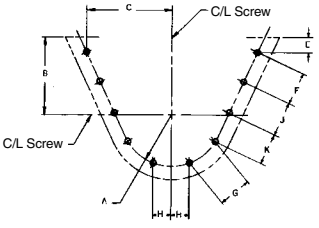
Flared Trough End Flanges



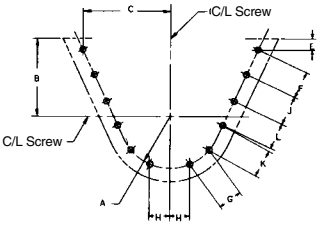
6 Bolts



8 Bolts



10 Bolts

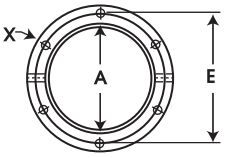


12 Bolts

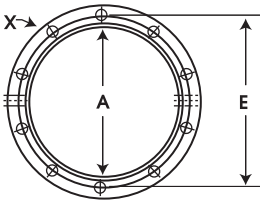
Screw Diameter Inches	Bolts		A	B	C	E	F	G	H	J	K	L
	Diameter Number	Holes	Inches									
6	⅜	6	4 7/16	7	7 3/16	1 27/32	5¼	5¼	2 1/32	—	—	—
9	⅜	8	6¼	9	9 21/32	1 43/64	5	5	2 9/16	5	—	—
12	½	8	7 15/16	10	11 13/16	1 13/16	5¾	5¾	3⅞	5¾	—	—
14	½	10	8 15/16	11	12 49/64	2 1/16	5⅛	5⅛	3	5⅛	5⅛	—
16	⅝	10	10	11½	14 11/16	2 15/64	5½	5½	3¾	5½	5½	—
18	⅝	10	11	12⅛	16	2⅝	6 3/16	6 3/16	2 15/16	6 3/16	6 3/16	—
20	⅝	10	12 3/16	13½	17⅞	2 3/32	7	7	3 11/32	7	7	—
24	⅝	12	14¼	16½	20 61/64	2 5/16	6⅞	6⅞	3 5/16	6⅞	6⅞	6⅞

Bolt Patterns

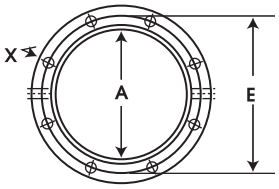
Tubular Housing Flanges



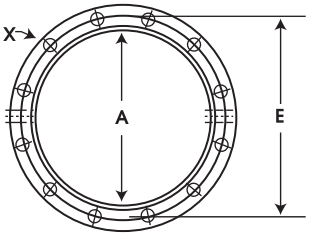
6 bolts



10 bolts

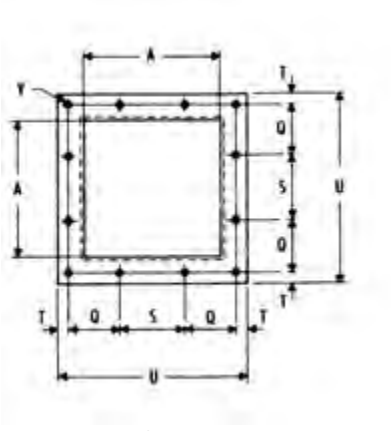


8 bolts

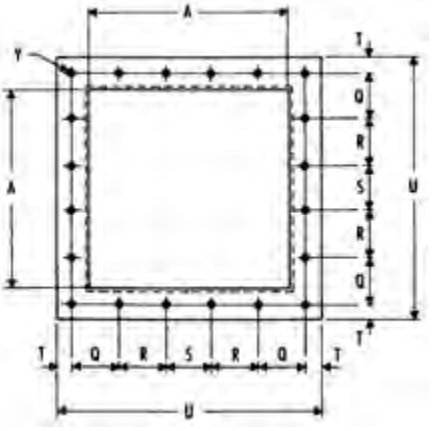


12 bolts

Intake & Discharge Flanges



12 bolts



20 bolts

Screw Size	Flange Bolts		A	E	Q	R	S	T	U
	Tubular X	Discharge Y							
4	6--⅜	12--¼	5	7	2¼	—	2¼	⅜	7½
6	8--⅜	12--⅜	7	8⅞	2 13/16	—	3	11/16	10
9	8--⅜	12--⅜	10	11⅞	4	—	4	½	13
10	8--⅜	12--⅜	11	13¼	4 5/16	—	4⅜	⅝	14¼
12	8--½	12--⅜	13	15	5⅛	—	5¼	⅞	17¼
14	8--½	20--⅜	15	17	3½	3½	3½	⅞	19¼
16	8--⅝	20--⅜	17	19½	3¾	4	4	⅞	21¼
18	10--⅝	20--½	19	22	4 7/16	4⅜	4⅜	1⅛	24¼
20	10--⅝	20--½	21	24⅜	4⅞	4¾	4¾	1⅛	26¼
24	12--⅝	20--½	25	28½	5⅝	5⅝	5½	1⅛	30¼

Bolt Requirements Related to Conveyor Trough Sizes										
Part Name	**4**	**6**	**9**	**10**	**12**	**14**	**16**	**18**	**20**	**24**
Flange, Trough	6 - ⅜ × 1¼	6 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ½ × 1½	8 - ½ × 1½	8 - ⅝ × 1¾	10 - ⅝ × 1¾	10 - ⅝ ×1¾	12 - ⅝ × 1¾
Flange, Tubular Housing	6 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ½ × 1½	8 - ½ × 1½	8 - ⅝ × 1¾	10 - ⅝ × 1¾	10 - ⅝ × 1¾	12 - ⅝ × 1¾
Ends, Trough										
Inside	6 - ¼ ×¾	7 - ⅜ ×1	8 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ½ × 1¼	8 - ½ × 1¼	8 - ⅝ × 1¼	10 - ⅝ × 1¼	10 - ⅝ × 1½	12 - ⅝ × 1½
Inside Discharge	4 - ⅜ ×1	4 - ⅜ ×1	4 - ⅜ × 1¼	6 - ⅜ × 1¼	6 - ½ × 1¼	6 - ½ × 1¼	6 - ⅝ × 1¼	6 - ⅝ × 1½	6 - ⅝ × 1½	6 - ⅝ × 1½
Inside Rectangular	5 - ¼ ×¾	6 - ⅜ ×1	8 - ⅜ × 1¼	8 - ⅜ × 1¼	10 - ½ × 1¼	11 - ½ × 1¼	12 - ⅝ × 1¼	12 - ⅝ × 1¼	12 - ⅝ × 1½	12 - ⅝ × 1½
Outside Type	6 - ⅜ × 1¼	6 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ½ × 1½	8 - ½ × 1½	8 - ⅝ × 1¾	10 - ⅝ × 1¾	10 - ⅝ × 1¾	12 - ⅝ × 1¾
Outside Discharge	4 - ⅜ × 1	2 - ⅜ × 1	4 - ⅜ × 1¼	4 - ⅜ × 1¼	4 - ½ × 1¼	4 - ½ × 1¼	4 - ⅝ × 1½	4 - ⅝ × 1½	4 - ⅝ × 1½	6 - ⅝ × 1½
Ends, Tubular Housing	6 - ⅜ × 1	8 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ⅜ × 1¼	8 - ½ × 1½	8 - ½ × 1½	8 - ⅝ × 1¾	10 - ⅝ × 1¾	10 - ⅝ × 1¾	12 - ⅝ × 1¾
Hanger, Trough										
Style 60		2 - ½ × 2	2 - ½ × 2	2 - ½ × 2	2 - ½ × 2½	2 - ½ × 2½	2 - ⅝ × 2¾	2 - ⅝ × 2¾	2 - ⅝ × 2¾	
Style 70		4 - ⅜ × 1	4 - ⅜ × 1¼	4 - ⅜ × 1¼	4 - ½ × 1½	4 - ½ × 1½	4 - ½ × 1½	4 - ½ × 1¾	4 - ⅝ × 2	
Style 216		4 - ⅜ × 1¼	4 - ⅜ × 1¼	4 - ⅜ × 1¼	4 - ½ × 1½	4 - ½ × 1½	4 - ½ × 1½	4 - ⅝ × 1¾	4 - ⅝ × 2	4 - ⅝ × 2½
Style 220	4 - ¼ × 1	4 - ⅜ × 1	4 - ⅜ × 1	4 - ⅜ × 1	4 - ½ × 1¼	4 - ½ × 1½	4 - ½ × 1½	4 - ⅝ × 1¾	4 - ⅝ × 1¾	4 - ⅝ × 1¾
Style 226	4 - ¼ × 1	4 - ⅜ × 1¼	4 - ⅜ × 1¼	4 - ⅜ × 1¼	4 - ½ × 1½	4 - ½ × 1½	4 - ½ × 1½	4 - ⅝ × 1¾	4 - ⅝ × 2	4 - ⅝ × 2½
Style 230		4 - ⅜ × 1	4 - ⅜ × 1	4 - ⅜ × 1	4 - ½ × 1¼	4 - ½ × 1½	4 - ½ × 1½	4 - ⅝ × 1¾	4 - ⅝ × 1¾	4 - ⅝ × 1¾
Style 316	4 - ¼ × 1	4 - ⅜ × 1	4 - ⅜ × 1	4 - ⅜ × 1	4 - ½ × 1½	4 - ½ × 1¼	4 - ½ × 1¼	4 - ⅝ × 1½	4 - ⅝ × 1½	4 - ⅝ × 1½
Style 326	4 - ¼ × 1	4 - ⅜ × 1	4 - ⅜ × 1	4 - ⅜ × 1	4 - ½ × 1¼	4 - ½ × 1¼	4 - ½ × 1¼	5 - ⅝ × 1½	4 - ⅝ × 1½	4 - ⅝ × 1½
Covers, Trough (Std. 10 ft.)	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1	10 - 5⁄16 × 1
Saddle — Feet										
Flanged Feet	2 - ⅜ × 1½	2 - ⅜ × 1½	2 - ⅜ × 1½	2 - ⅜ × 1½	2 - ½ × 1¾	2 - ½ × 1¾	2 - ⅝ × 2	2 - ⅝ × 2	2 - ⅝ × 2	2 - ⅝ × 2
Saddle (Now Welded)										
Spouts, Discharge										
Attaching Bolts	8 - ⅜ × 1½	8 - ⅜ × 1½	8 - ⅜ × 1½	8 - ⅜ × 1½	8 - ⅜ × 1½	12 - ⅜ × 1½	12 - ⅜ × 1½	12 - ½ × 1½	12 - ½ × 1½	12 - ½ × 1½
Flange	12 - ⅜ × 1	12 - ⅜ × 1	12 - ⅜ × 1	12 - ⅜ × 1	12 - ⅜ × 1	20 - ⅜ × 1	20 - ⅜ × 1	20 - ½ × 1	20 - ½ × 1	20 - ½ × 1
Flange w/Slide	10 - ⅜ × 1	10 - ⅜ × 1	10 - ⅜ × 1	10 - ⅜ × 1	10 - ⅜ × 1	16 - ⅜ × 1	16 - ⅜ × 1	16 - ½ × 1¼	16 - ½ × 1¼	16 - ½ × 1¼

All bolts hex head cap screws with hex nuts and lock washers.

Bolt Requirements Related to Shaft Coupling Sizes						
Part Name	**1**	**1½**	**2**	**2 7/16**	**3**	**3 7/16**
Bearings, End						
Discharge Bronze	3 - ⅜ × 1¼	3 - ½ × 1½	3 - ⅝ × 1¾	3 - ⅝ × 1¾	3 - ¾ × 2	3 - ¾ × 2¼
Discharge Ball	3 - ⅜ × 1¼	3 - ½ × 1½	3 - ⅝ × 1½	3 - ⅝ × 1¾	3 - ¾ × 2	3 - ¾ × 2¼
Flanged Bronze	4 - ⅜ × 1¼	4 - ½ × 1½	4 - ⅝ × 1¾	4 - ⅝ × 1¾	4 - ¾ × 2	4 - ¾ × 2¼
Flanged Ball	4 - ⅜ × 1¼	4 - ½ × 1½	4 - ⅝ × 1¾	4 - ⅝ × 1¾	4 - ¾ × 2½	4 - ¾ × 2¾
Flanged Roller		4 - ½ × 2½	4 - ½ × 2½	4 - ⅝ × 3	4 - ¾× 3	4 - ¾ × 3¼
Pillow Block Bronze	2 - ⅜ × 1½	2 - ½ × 1¾	2 - ⅝ × 2	2 - ⅝ × 2¼	2 - ¾ × 2½	2 - ⅞ × 2¾
Pillow Block Ball	2 - ⅜ × 1¾	2 - ½ × 2¼	2 - ⅝ × 2½	2 - ⅝× 2¾	2 - ⅞ × 3½	2 - ⅞ × 3¾
Pillow Block, Roller		2 - ½ × 2¼	2 - ⅝ × 2½	2 - ⅝ × 2¾	2 - ¾ × 3	2 - ⅞ × 3½
Bearings, Thrust						
Type “E" Roller		4 - ½ × 2¾	4 - ½ ×2¾	4 - ⅝ × 3¼	4 - ¾ × 3½	4 - ¾ × 3¾
Coupling Bolts	⅜ × 2 1/16	½ × 3	⅝ × 3⅝	⅝ × 4⅜	¾ × 5 - 3" Pipe ¾ × 5½ - 4" Pipe	⅞ × 5½
Seals, Shafts						
Flanged Gland		4 - ½ × 1½	4 - ⅝ × 1½	4 - ⅝ × 1½	4 - ¾ × 1¾	4 - ¾ × 1¾
Plate w/Ball or Bronze		4 - ½ × 2	4 - ⅝ × 2¼	4 - ⅝ × 2¼	4 - ¾ × 3	4 - ¾ × 3½
Plate w/Roller		4 - ½ × 3	4 - ½ × 3	4 - ⅝ × 3½	4 - ¾ × 3½	4 - ¾ × 4
Split Gland		2 - ½ × 1½	2 - ½ × 1½	2 - ⅝ × 1¾	2 - ⅝ × 1¾	2 - ¾ × 2¼
Waste Pack, w/Ball or Bronze		4 - ½ × 3½	4 - ⅝ × 3½	4 - ⅝ × 4	4 - ¾ × 4	4 - ¾ × 5
Waste Pack, w/Roller		4 - ½ × 4	4 - ½ × 4	4 - ⅝ × 4½	4 - ¾ × 5	4 - ¾ × 5½

*See page H-85 for special coupling bolts.
All other bolts hex head cap screws with hex nuts and lock washers.

Pipe Sizes, Dimensions and Weights

Nominal Pipe Size Inches	Outside Diameter Inches	I.P.S. Schedule	Wall Inches	Inside Diameter Inches	Wt./Ft. Pounds
⅛	.405	10S	.049	.307	.1863
		40 40S Est	.068	.269	.2447
		80 80S Ex. Hvy.	.095	.215	.3145
¼	.540	10S	.065	.410	.3297
		40 40S Est.	.088	.364	.4248
		80 80S Ex. Hvy.	.119	.302	.5351
⅜	.675	10S	.065	.545	.4235
		40 40S Std.	.091	.493	.5676
		80 80S Ex. Hvy.	.126	.423	.7388
½	.840	5S	.065	.710	.5383
		10S	.083	.674	.6710
		40 40S Est.	.109	.622	.8510
		80 80S Ex. Hvy.	.147	.546	1.088
		160	.187	.466	1.304
		XX Hvy.	.294	.252	1.714
¾	1.050	5S	.065	.920	.6838
		10S	.083	.884	.8572
		40 40S Std.	.113	.824	1.131
		80 80S Ex. Hvy.	.154	.742	1.474
		160	.218	.614	1.937
		XX Hvy.	.308	.434	2.441
1	1.315	5S	.065	1.185	.8678
		10S	.109	1.097	1.404
		40 40S Std.	.133	1.049	1.679
		80 80S Ex. Hvy.	.179	.957	2.172
		160	.250	.815	2.844
		XX Hvy.	.358	.599	3.659
1¼	1.660	5S	.065	1.530	1.107
		10S	.109	1.442	1.806
		40 40S Std.	.140	1.380	2.273
		80 80S Ex. Hvy.	.191	1.278	2.997
		160	.250	1.160	3.765
		XX Hvy.	.382	.896	5.214
1½	1.900	5S	.065	1.770	1.274
		10S	.109	1.682	2.085
		40 40S Std.	.145	1.610	2.718
		80 80S Ex. Hvy.	.200	1.500	3.631
		160	.281	1.338	4.859
		XX Hvy.	.400	1.100	6.408
2	2.375	5S	.065	2.245	1.604
		10S	.109	2.157	2.638
		40 40S Std.	.154	2.067	3.653
		80 80S Ex. Hvy.	.218	1.939	5.022
		160	.343	1.689	7.444
		XX Hvy.	.436	1.503	9.029
2½	2.875	5S	.083	2.709	2.475
		10S	.120	2.635	3.531
		40 40S Std.	.203	2.469	5.793
		80 80S Ex. Hvy.	.276	2.323	7.661
		160	.375	2.125	10.01
		XX Hvy.	.552	1.771	13.69
3	3.500	5S	.083	3.334	3.029
		10S	.120	3.260	4.332
		40 40S Est.	.216	3.068	7.576
		80 80S Ex. Hvy.	.300	2.900	10.25
		160	.438	2.624	14.32
		XX Hvy.	.600	2.300	18.58
3½	4.000	5S	.083	3.834	3.472
		10S	.120	3.760	4.973
		40 40S Std.	.226	3.548	9.109
		80 80S Ex. Hvy.	.318	3.364	12.50
4	4.500	5S	.083	4.334	3.915
		10S	.120	4.260	5.613
		40 40S Est.	.237	4.026	10.79
		80 80S Ex. Hvy.	.337	3.826	14.98
		120	.438	3.624	19.00
		160	.531	3.438	22.51
		XX Hvy.	.674	3.152	27.54
5	5.563	5S	.109	5.345	6.349
		10S	.134	5.295	7.770
		40 40S Est.	.258	5.047	14.62
		80 80S Ex. Hvy.	.375	4.813	20.78
		120	.500	4.563	27.04
		160	.625	4.313	32.96
		XX Hvy.	.750	4.063	38.55
6	6.625	5S	.109	6.407	7.585
		10S	.134	6.357	9.289
		40 40S Std.	.280	6.065	18.97
		80 80S Ex. Hvy.	.432	5.761	28.57
		120	.562	5.491	36.39
		160	.718	5.189	45.30
		XX Hvy.	.864	4.897	53.16
8	8.625	5S	.109	8.407	9.914
		10S	.148	8.329	13.40
		20	.250	8.125	22.36
		30	.277	8.071	24.70
		40 40S Est.	.322	7.981	28.55
		60	.406	7.813	35.64
		80 80S Ex. Hvy.	.500	7.625	43.39
		100	.593	7.439	50.87
		120	.718	7.189	60.63
		140	.812	7.001	67.76
		XX Hvy.	.875	6.875	72.42
		160	.906	6.813	74.69
10	10.750	5S	.134	10.482	15.19
		10S	.165	10.420	18.70
		20	.250	10.250	28.04
		30	.307	10.136	34.24
		40 40S Std.	.365	10.020	40.48
		60 80S Ex. Hvy.	.500	9.750	54.74
		80	.593	9.564	64.33
		100	.718	9.224	76.93
		120	.843	9.064	89.20
		140	1.000	8.750	104.1
		160	1.125	8.500	115.7

NOTE:
Weights shown are in pounds per foot, based on the average wall of the pipe. The following formula was used in calculating the weight per foot.

W = 10.68 (D — t)t
W = Weight in pounds per foot (to 4 digits)
D = Outside Diameter in inches (to 3 decimal places)
t = Wall thickness in decimals (to 3 decimal places)

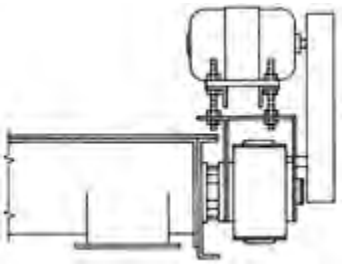
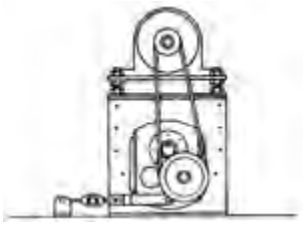
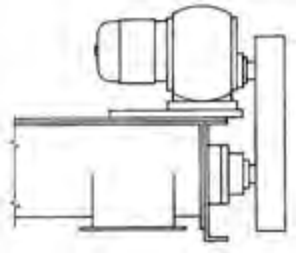
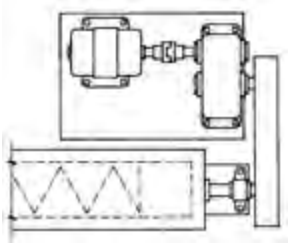
All weights are carried to four digits only, the fifth digit being carried forward if five or over, or dropped if under five.

Typical Drive Arrangements

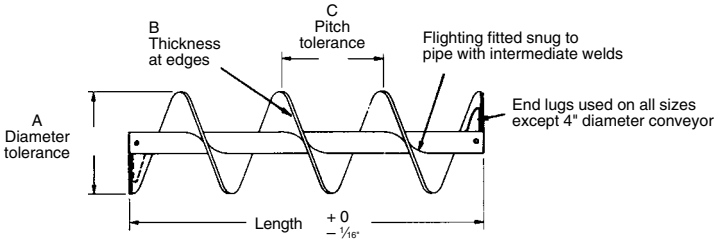
The most common types of drives for Screw Conveyors are illustrated below.

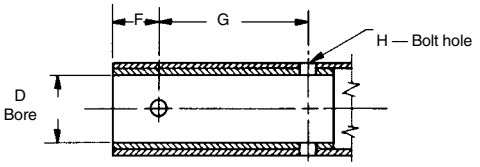
In addition to those shown, other types availble are: variable speed drives, hydraulic drives, and take-off drives for connection to other equipment.

For special drive requirements, consult our Engineering Department.

Screw Driver Reducer	 (Side View)	Reducer mounts on trough end, and is directly connected to the conveyor screw and includes integral thrust bearing, seal gland, and drive shaft. Motor mount may be positioned at top, either side, or below. Separate drive shaft, end bearing, and seal are not required.
Shaft Mounted Reducer	 (End View)	Reducer mounts on conveyor drive shaft. Motor and “V"-Belt drive may be in any convenient location. The torque arm may be fastened to the floor, or fitted to trough end. Requires extended drive shaft, end bearing, and seal. Note: Requires thrust unit or collars to hold thrust.
Gearmotor Drive	 (Side View)	Integral motor-reducer with chain drive to conveyor drive shaft. Usually mounted to top of trough by means of an adapter plate.
Base Type Reducer Drive	 (Top View)	Motor direct-coupled to base type reducer, with chain drive to conveyor drive shaft. Usually mounted on floor or platform as close as possible to conveyor.

Helicoid Screw Conveyors

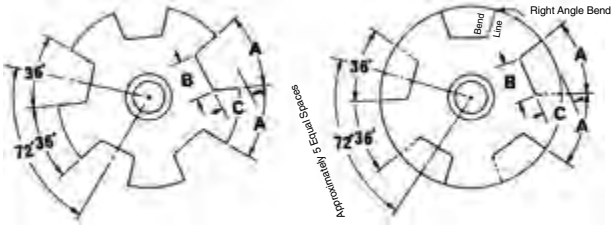




Listed Screw Diameter and Pitch	Coupling Diameter	Size Designation	Pipe Size Schedule 40	Length Feet and Inches	A		B		C		D		F	G	H
					Diameter Tolerance		Thickness		Pitch Tolerance		Bushing Bore Inside Diameter		Spacing 1st Bolt Hole	Centers 2nd Bolt Hole	Nominal Bolt Hole Size
					Plus	Minus	Inner Edge	Outer Edge	Plus	Minus	Minimum	Maximum			
4	1	4H206	1¼	9-10½	1/16	1/8	3/16	3/32	1/2	1/4	1.005	1.016	1/2	2	13/32
6	1½	6H304	2	9-10	1/16	3/16	1/8	1/16	1/2	1/4	1.505	1.516	7/8	3	17/32
6	1½	6H308	2	9-10	1/16	3/16	1/4	1/8	3/4	1/4	1.505	1.516	7/8	3	17/32
6	1½	6H312	2	9-10	1/16	3/16	3/8	3/16	3/4	1/4	1.505	1.516	7/8	3	17/32
9	1½	9H306	2	9-10	1/16	3/16	3/16	3/32	3/4	1/4	1.505	1.516	7/8	3	17/32
9	1½	9H312	2	9-10	1/16	3/16	3/8	3/16	3/4	1/4	1.505	1.516	7/8	3	17/32
9	2	9H406	2½	9-10	1/16	3/16	3/16	3/32	3/4	1/4	2.005	2.016	7/8	3	21/32
9	2	9H412	2½	9-10	1/16	1/4	3/8	3/16	3/4	1/4	2.005	2.016	7/8	3	21/32
9	2	9H414	2½	9-10	1/16	1/4	7/16	7/32	3/4	1/4	2.005	2.016	7/8	3	21/32
10	1½	10H306	2	9-10	1/16	3/16	3/16	3/32	3/4	1/4	1.505	1.516	7/8	3	17/32
10	2	10H412	2½	9-10	1/16	1/4	3/8	3/16	3/4	1/4	2.005	2.016	7/8	3	21/32
12	2	12H408	2½	11-10	1/8	5/16	1/4	1/8	1	1/4	2.005	2.016	7/8	3	21/32
12	2	12H412	2½	11-10	1/8	5/16	3/8	3/16	1	1/4	2.005	2.016	7/8	3	21/32
12	2 7/16	12H508	3	11-9	1/8	5/16	1/4	1/8	1	1/4	2.443	2.458	15/16	3	21/32
12	2 7/16	12H512	3	11-9	1/8	5/16	3/8	3/16	1	1/4	2.443	2.458	15/16	3	21/32
12	3	12H614	3½	11-9	1/8	3/8	7/16	7/32	1	1/4	3.005	3.025	1	3	25/32
14	2 7/16	14H508	3	11-9	1/8	5/16	1/4	1/8	1	1/4	2.443	2.458	15/16	3	21/32
14	3	14H614	3½	11-9	1/8	3/8	7/16	7/32	1	1/4	3.005	3.025	1	3	25/32
16	3	16H610	3½	11-9	1/8	3/8	5/16	5/32	1½	1/4	3.005	3.025	1	3	25/32
16	3	16H614	4	11-9	1/8	3/8	7/16	7/32	1½	1/4	3.005	3.025	1	3	25/32

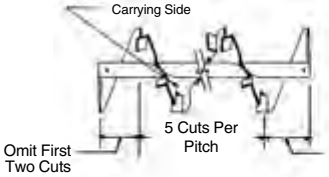
NOTE: All dimensions in inches.

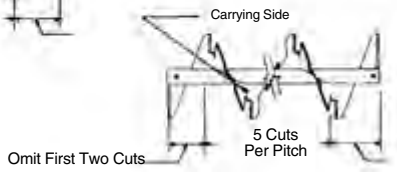
Cut Flight/Cut & Folded Flight Conveyors



Depth of cut "C" is one half the flight width for normal maximum pipe size. Lengths "A" and "B" are calculated from the developed O.D. for standard pitch.

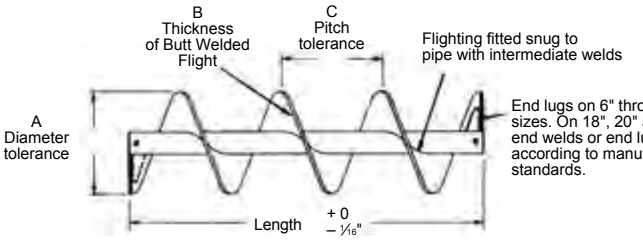
Screw Diameter	A	B	C
4	1⅜	1	⅝
6	2	1½	⅞
9	3	2⅛	1½
10	3⅜	2¼	1¾
12	4	2¾	2
14	4⅝	3⅛	2½
16	5¼	3½	3
18	6	3⅞	3⅜
20	6⅝	4¼	3⅞
24	7⅞	4⅞	4⅞

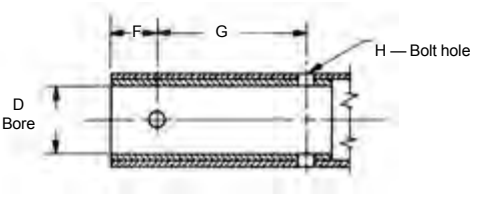




CEMA Standards

Sectional Screw Conveyors





Listed Screw Diameter and Pitch	Cplng. Dia.	Size Designation	Pipe Size Schedule 40	Length Feet and Inches	A		B	C		D		F	G	H
					Diameter Tolerance		Flight Thickness	Pitch Tolerance		Bushing Bore Inside Diameter		Spacing 1st Bolt Hole	Centers 2nd Bolt Hole	Nominal Bolt Hole Size
					Plus	Minus		Plus	Minus	Minimum	Maximum			
6	1½	6S312	2	9-10	1/16	3/16	3/16	3/8	1/4	1.505	1.516	7/8	3	17/32
9	1½	9S312	2	9-10	1/16	3/16	3/16	1/2	1/4	1.505	1.516	7/8	3	17/32
	2	9S412	2½	9-10	1/16	3/16	3/16	1/2	1/4	2.005	2.016	7/8	3	21/32
	2	9S416	2½	9-10	1/16	1/4	1/4	1/2	1/4	2.005	2.016	7/8	3	21/32
10	2	10S412	2½	9-10	1/16	3/16	3/16	1/2	1/4	2.005	2.016	7/8	3	21/32
12	2	12S412	2½	11-10	1/8	5/16	3/16	3/4	1/4	2.005	2.016	7/8	3	21/32
	2 7/16	12S512	3	11-9	1/8	5/16	3/16	3/4	1/4	2.443	2.458	15/16	3	21/32
	2 7/16	12S516	3	11-9	1/8	5/16	1/4	3/4	1/4	2.443	2.458	15/16	3	21/32
	3	12S616	3½	11-9	1/8	5/16	1/4	3/4	1/4	3.005	3.025	1	3	25/32
	3	12S624	3½	11-9	1/8	3/8	3/8	3/4	1/4	3.005	3.025	1	3	25/32
14	2 7/16	14S512	3	11-9	1/8	5/16	3/16	3/4	1/4	2.443	2.458	15/16	3	21/32
	3	14S616	3½	11-9	1/8	5/16	1/4	3/4	1/4	3.005	3.025	1	3	25/32
	3	14S624	3½	11-9	1/8	3/8	3/8	3/4	1/4	3.005	3.025	1	3	25/32
16	3	16S612	3½	11-9	1/8	3/8	3/16	3/4	1/4	3.005	3.025	1	3	25/32
	3	16S616	3½	11-9	1/8	3/8	1/4	3/4	1/4	3.005	3.025	1	3	25/32
	3	16S624	3½	11-9	1/8	3/8	3/8	3/4	1/4	3.005	3.025	1	3	25/32
	3	16S632	3½	11-9	1/8	1/2	1/2	3/4	1/4	3.005	3.025	1	3	25/32
18	3	18S612	3½	11-9	3/16	3/8	3/16	3/4	1/2	3.005	3.025	1	3	25/32
	3	18S616	3½	11-9	3/16	3/8	1/4	3/4	1/2	3.005	3.025	1	3	25/32
	3	18S624	3½	11-9	3/16	3/8	3/8	3/4	1/2	3.005	3.025	1	3	25/32
	3	18S632	3½	11-9	3/16	1/2	1/2	3/4	1/2	3.005	3.025	1	3	25/32
20	3	20S612	3½	11-9	3/16	3/8	3/16	7/8	1/2	3.005	3.025	1	3	25/32
	3	20S616	3½	11-9	3/16	3/8	1/4	7/8	1/2	3.005	3.025	1	3	25/32
	3	20S624	3½	11-9	3/16	3/8	3/8	7/8	1/2	3.005	3.025	1	3	25/32
24	3 7/16	24S712	4	11-8	3/16	3/8	3/16	7/8	1/2	3.443	3.467	1½	4	29/32
	3 7/16	24S716	4	11-8	3/16	3/8	1/4	7/8	1/2	3.443	3.467	1½	4	29/32
	3 7/16	24S724	4	11-8	3/16	3/8	3/8	7/8	1/2	3.443	3.467	1½	4	29/32
	3 7/16	24S732	4	11-8	3/16	1/2	1/2	7/8	1/2	3.443	3.467	1½	4	29/32

NOTE: All dimensions in inches.

SECTION III

COMPONENT SECTION III	PAGE
Component Selection	H-50
Trough	H-52
Discharges and Gates	H-56
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Saddles and Feet/Trough End Flanges	H-69
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Coupling Bolts, Internal Collars and Lugs	H-85
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Hanger Bearings	H-99
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Conveyor Shrouds	H-106

Component Selection

Required Information

Screw diameter
Shaft diameter
Material component group
Unusual material characteristics

Conveyor Screws

Standard length conveyor screws should be used whenever possible to reduce the number of hanger bearings required.

The recommended screws listed in the Component Series Table are standard helicoid and sectional screw conveyors. The use of helicoid or sectional conveyors is largely a matter of individual preference.

Right hand screw conveyors pull material toward the end which is being rotated in a clockwise direction. If the rotation is reversed (counterclockwise), the material is pushed away from that end.

In left hand screw conveyors, the material flow is opposite to that of right hand screws, the direction of rotation being unchanged.

To determine hand of screw see pages H-37 and H-38.

The material is carried on one face of the conveyor flighting in conveyors which are required to transport material in one direction, therefore, conveyor end lugs are located on the opposite face to facilitate unimpeded flow of the material. Conveyor sections must be installed in such a manner that all end lugs are toward the inlet end of the conveyor. Conveyor sections must not be turned end for end without reversing the direction of rotation, or conversely, the direction of rotation must not be reversed without turning the conveyor sections end for end.

Requirements for reversible conveyor screws intended for material transport in either direction should be referred to our Engineering Department.

Flighting should be omitted from the conveyor pipe over the last discharge opening to ensure complete discharge of material without carryover.

Continuity of material flow at hanger points is accomplished by opposing adjacent flight ends approximately 180º. (As close to 180° as the predrilled holes will allow.)

Conveyor Trough and Tubular Housing

Standard trough and housing sections are available in five, six, ten, and 12 foot lengths. Standard five and six foot lengths should be used when connecting flanges coincide with discharge openings or hanger bearings.

Shafts

The primary consideration in determining the type and size of coupling and drive shafts is whether the shafts selected are adequate to transmit the horsepower required, including any overload. Normally, cold-rolled shafts are adequate. However, high-tensile shafts may be required due to torque limitations. Also, stainless steel shafts may be necessary when corrosive or contaminable materials are to be handled. Conveyors equipped with non-lubricated hard iron hanger bearings require hardened coupling shafts. Specific shaft size determination is covered in the Torsional Rating Section, page H-26.

Shaft Seals

Several conveyor end seal types are available to prevent contamination of the conveyed material or to prevent the escape of material from the system.

Bearings

Hanger Bearing — The purpose of hanger bearings is to provide intermediate support when multiple screw sections are used. Hanger bearings are designed primarily for radial loads. Therefore, adequate clearance should be allowed between the bearings and the conveyor pipe ends to prevent damage by the thrust load which is transmitted through the conveyor pipe.

The hanger bearing recommendations listed in the Material Characteristic Tables are generally adequate for the material to be handled. Often, however, unusual characteristics of the material or the conditions under which the conveyor must operate make it desirable to use special bearing materials. Regarding the use of special bearing materials, consult our Engineering Department.

End Bearings — Several end bearing types are available, and their selection depends on two basic factors: Radial load and thrust load. The relative values of these loads determines end bearing types.

Radial load is negligible at the conveyor tail shaft. However, drive ends (unless integrated with the conveyor end plate) are subject to radial loading due to overhung drive loads, such as chain sprockets or shaft-mounted speed reducers. Screw Conveyor Drive Reducers at the drive end will adequately carry both thrust and radial loads.

Discharge Spouts and Gates

Standard discharge spouts and gates are available for either conveyor trough or tubular housing in several designs, operated either manually or by remote controls.

In installations where it is possible to overfill the device to which material is being transported, an additional overflow discharge opening or overflow relief device should be provided. Consult our Engineering Department for suggested electrical interlock and safety devices to prevent overflow or damage to equipment.

It is sometimes found that the material characteristics are such that standard component specifications are inadequate. Should unusual material characteristics or severe conditions exist, our Engineering Department should be consulted.

Conveyor Ends

A complete line of conveyor ends are available as standard for either conveyor trough or tubular housing with a choice of many bearing types and combinations.

Special Applications

More common of the unusual material characteristics which require other than the recommended components are:

Corrosive Materials — Components may be fabricated from alloys not affected by the material or may be coated with a protective substance.

Contaminable Materials — Require the use of oil impregnated, sealed, or dry type hanger bearings. End shafts should be sealed to prevent entrance of contaminants from the outside. Due to the necessity for frequent cleaning conveyor components should be designed for convenient disassembly.

Abrasive Materials — These materials may be handled in conveyors, troughs, or housings constructed of abrasion resistant alloys with hard surfaced screws. Lining of all exposed surfaces with rubber or special resins also materially reduces abrasive damage.

Interlocking or Matting Materials — Conveying with standard components is sometimes possible by the use of special feeding devices at the conveyor inlet.

Hygroscopic Materials — Frequently these materials may be handled successfully in a conveyor which is substantially sealed from the exterior atmosphere. In extreme cases it is necessary to provide jacketed trough or housing with an appropriate circulating medium to maintain the material at an elevated temperature. Purging of the conveyor with a suitable dry gas is also used in some installations.

Viscous or Sticky Materials — Ribbon flight conveyor screws are most frequently used for conveying these materials although standard components may be specially coated to improve the flow of material.

Harmful Vapors or Dusts — These materials may be safely handled in dust sealed trough, plain tubular housing, or gasketed flanged tubular housing with particular attention to shaft sealing. Trough or housing exhaust systems have also been successfully used in some installations.

Blending in Transit — Ribbon, cut flight, paddle, or a combination of these screw types may be designed to produce the desired degree of blending, aeration or mixing.

Explosive Dusts — The danger of this condition may be minimized in most installations by the use of components which are fabricated from non-ferrous materials and proper conveyor sealing techniques observed. Exhaust systems are also advisable for the removal of explosive dusts.

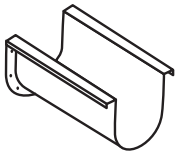
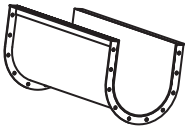
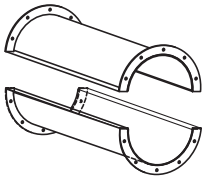
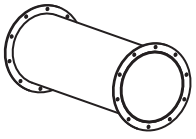
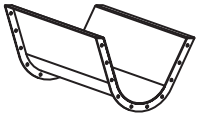
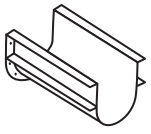
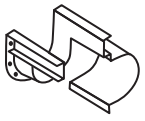
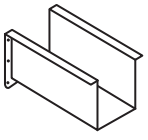
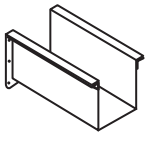
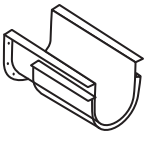
Materials Subject to Packing — This condition requires the use of aerating devices at the conveyor inlet when materials are pulverulent and a special feeder device when material particles are large or fibrous.

Materials which are Fluid when Aerated — This condition may be used to advantage in some installations by declining the conveyor system toward the discharge end.

Degradable Materials — Some particles that are easily broken or distorted may usually be handled in screw conveyors by reducing the speed and selecting a larger conveyor size sufficient to deliver the required volume of material.

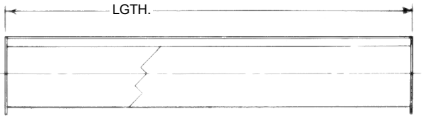
Elevated Temperature — Components should be fabricated from high temperature alloys. Should the process be such that cooling of the material in the conveyor is permissible, jacketed trough or housing may be used at the inlet end to cool the material and standard components used after the point where material temperature has been reduced to a safe degree.

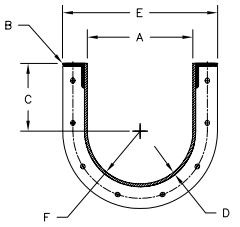
Conveyor Trough

FORMED FLANGE U-TROUGH		Commonly used economical trough. One piece construction. Standard lengths in stock.
ANGLE FLANGE U-TROUGH		Rigid construction. Standard lengths in stock.
FORMED FLANGE TUBULAR TROUGH		Loadable to full cross section for feeder applications. Minimizes fall back in inclined applications. Easily taken apart for maintenance. Can be gasketed for dust tight enclosure. Hanger pockets required for use with standard hangers.
SOLID TUBULAR TROUGH		One piece construction for totally enclosed or inclined applications. Hanger pockets required for use with standard hangers.
FLARED TROUGH		Used where materials tend to bridge or when flared inlets are needed.
CHANNEL TROUGH		Adds structural support for longer than standard spans.
DROP BOTTOM TROUGH		Used when complete material clean-out is critical. Can be furnished with hinges either side and bolts or clamps opposite side.
FORMED FLANGE RECTANGULAR TROUGH		Material being conveyed forms its own trough thereby reducing trough wear. One piece construction.
ANGLE FLANGE RECTANGULAR TROUGH		The same as formed flange rectangular except top flanges are made from structural angle.
JACKETED TROUGH		Jacket allows heating or cooling of material being conveyed.

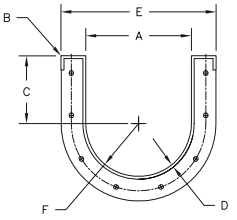
Standard Conveyor Trough

Standard conveyor troughs have a U-shaped steel body with angle iron top flanges or formed top flanges and jig drilled end flanges.





Angle Flange



Formed Flange

Conveyor Diameter	D	Angle Flanged	Angle Flanged Trough				Formed Flanged Trough ▲					A	B	C	E	F
			Weight		Weight			Weight		Weight						
	Trough Thick.	Part Number	10´* Length	5´ Length	12´ Length	6´ Length	Part Number	10´ Length	5´ Length	12´ Length	6´ Length					
4	☐ 16 GA.	4CTA16	53	29	—	—	4CTF16	41	23	—	—				7⅝	7¼
4	14	4CTA14	60	33	—	—	4CTF14	50	28	—	—	5	1¼	3⅜	7 11/16	7¼
4	12	4CTA12	78	42	—	—	4CTF12	70	38	—	—				7¾	7¼
6	☐ 16 GA.	6CTA16	67	44	—	—	6CTF16	55	32	—	—				9⅝	9 1/16
6	14	6CTA14	78	49	—	—	6CTF14	67	38	—	—				9 11/16	9 1/16
6	12	6CTA12	101	60	—	—	6CTF12	91	50	—	—	7	1¼	4½	9¾	
6	10	6CTA10	123	73	—	—	6CTF10	117	64	—	—				9¾	
6	3/16	6CTA7	164	86	—	—	6CTF7	150	79	—	—				9⅞	
9	16 GA.	9CTA16	113	66	—	—	9CTF16	83	51	—	—				13⅛	13¼
9	☐ 14	9CTA14	127	73	—	—	9CTF14	99	59	—	—				13 3/16	
9	12	9CTA12	156	87	—	—	9CTF12	132	75	—	—	10	1½	6⅛	13¼	
9	10	9CTA10	176	102	—	—	9CTF10	164	91	—	—				13 5/16	
9	3/16	9CTA7	230	124	—	—	9CTF7	214	116	—	—				13⅜	
9	¼	9CTA3	286	152	—	—	9CTF3	276	147	—	—				13½	
10	16 GA.	10CTA16	118	69	—	—	10CTF16	88	54	—	—				14⅛	14¼
10	☐ 14	10CTA14	133	76	—	—	10CTF14	105	62	—	—				14 3/16	
10	12	10CTA12	164	92	—	—	10CTF12	140	80	—	—	11	1½	6⅜	14¼	
10	10	10CTA10	178	102	—	—	10CTF10	167	91	—	—				14 5/16	
10	3/16	10CTA7	233	131	—	—	10CTF7	217	123	—	—				14⅜	
10	¼	10CTA3	306	163	—	—	10CTF3	296	158	—	—				14½	
12	☐ 12 GA.	12CTA12	197	113	236	135	12CTF12	164	95	197	114				17¼	17½
12	10	12CTA10	234	133	281	160	12CTF10	187	117	224	140	13	2	7¾	17 5/16	
12	3/16	12CTA7	294	164	353	197	12CTF7	272	150	326	180				17⅜	
12	¼	12CTA3	372	203	446	244	12CTF3	357	194	428	233				17½	
14	☐ 12 GA.	14CTA12	214	121	257	145	14CTF12	183	102	219	122				19¼	19⅜
14	10	14CTA10	258	143	309	172	14CTF10	207	127	248	152	15	2	9¼	19 5/16	
14	3/16	14CTA7	328	180	394	216	14CTF7	304	168	365	202				19⅜	
14	¼	14CTA3	418	224	501	269	14CTF3	403	215	483	258				19½	
16	☐ 12 GA.	16CTA12	238	133	285	160	16CTF12	206	107	247	128				21¼	21⅜
16	10	16CTA10	288	159	345	191	16CTF10	234	144	281	173	17	2	10⅝	21 5/16	
16	3/16	16CTA7	368	200	442	240	16CTF7	345	188	414	226				21⅜	
16	¼	16CTA3	471	243	565	291	16CTF3	455	228	546	273				21½	
18	☐ 12 GA.	18CTA12	252	159	302	191	18CTF12	240	133	288	160				24¼	24½
18	10	18CTA10	353	170	423	204	18CTF10	269	165	323	198	19	2½	12⅛	24 5/16	
18	3/16	18CTA7	444	243	533	291	18CTF7	394	217	473	260				24⅜	
18	¼	18CTA3	559	298	671	358	18CTF3	520	275	624	330				24½	
20	☐ 10 GA.	20CTA10	383	228	460	274	20CTF10	296	190	355	228				26 5/16	26½
20	3/16	20CTA7	484	271	581	325	20CTF7	434	247	521	296	21	2½	13½	26⅜	
20	¼	20CTA3	612	334	734	401	20CTF3	573	315	687	378				26½	
24	☐ 10 GA.	24CTA10	443	255	531	306	24CTF10	384	227	461	272				30 5/16	30½
24	3/16	24CTA7	563	319	676	383	24CTF7	514	293	617	352	25	2½	16½	30⅜	
24	¼	24CTA3	717	363	860	435	24CTF3	678	339	813	406				30½	

☐ **Standard Gauge**

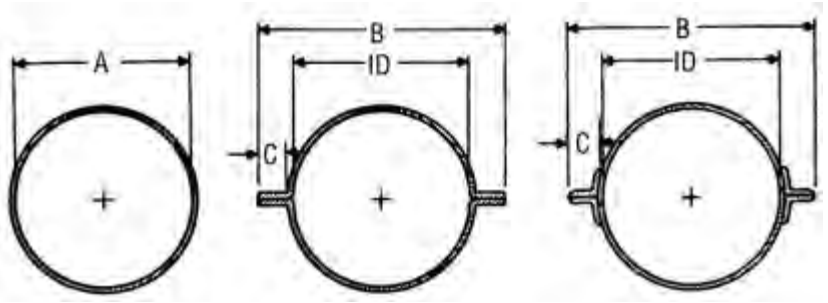
Bolt Patterns
Page H-42

All troughs available in other materials such as stainless, aluminum, abrasion resistant, etc.

▲ Double formed flange standard on all sizes through 10 ga.

Tubular Housing

Tubular conveyor housings are inherently dust and weather-tight, and may be loaded to a full cross section. Conveyors with tubular housings are rigid and are highly suitable for conveying material on an incline. Three types shown are available.



Tubular housing **Flanged tubular housing** **Angle flanged tubular housing**

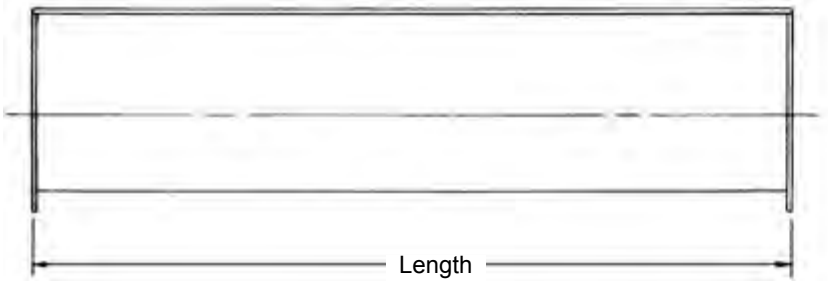
Conveyor Diameter	Trough Thickness	Tubular Housing			Formed Flange		Angle Flange		A	B	C
		Part Number	Weight 10´ Length	Weight 5´ Length	Part Number	Weight 10´	Part Number	Weight 10´			
4	☐ 16 GA.	4CHT16			4CHT16-F	43	4CHT16-A	81		7⅛	
4	14	4CHT14	60	31	4CHT14-F	53	4CHT14-A	89	5	7⅜₁₆	1
4	12	4CHT12			4CHT12-F	74	4CHT12-A	106		7¼	
6	☐ 16 GA.	6CHT16	50	27	6CHT16-F	60	6CHT16-A	110		9⅝	
6	14	6CHT14	62	33	6CHT14-F	75	6CHT14-A	122		9¹¹⁄₁₆	
6	12	6CHT12	85	44	6CHT12-F	103	6CHT12-A	145	7	9¾	1¼
6	10	6CHT10	109	56	6CHT10-F	133	6CHT10-A	187		9¹³⁄₁₆	
6	³⁄₁₆	6CHT7	145	74	6CHT7-F	168	6CHT7-A	205		9⅞	
9	16 GA.	9CHT16	72	39	9CHT16-F	84	9CHT16-A	131		12⅝	
9	☐ 14	9CHT14	89	47	9CHT14-F	104	9CHT14-A	148		12¹¹⁄₁₆	
9	12	9CHT12	122	64	9CHT12-F	143	9CHT12-A	181		12¾	
9	10	9CHT10	155	80	9CHT10-F	182	9CHT10-A	214	10	12¹³⁄₁₆	1¼
9	³⁄₁₆	9CHT7	208	107	9CHT7-F	245	9CHT7-A	267		12⅞	
9	¼	9CHT3	275	140	9CHT3-F	324	9CHT3-A	334		13	
10	16 GA.	10CHT16	79	42	10CHT16-F	91	10CHT16-A	138		13⅝	
10	☐ 14	10CHT14	97	52	10CHT14-F	112	10CHT14-A	156		13¹¹⁄₁₆	
10	12	10CHT12	133	70	10CHT12-F	154	10CHT12-A	192		13¾	
10	10	10CHT10	169	88	10CHT10-F	196	10CHT10-A	228	11	13¹³⁄₁₆	1¼
10	³⁄₁₆	10CHT7	227	117	10CHT7-F	264	10CHT7-A	286		13⅞	
10	¼	10CHT3	301	154	10CHT3-F	350	10CHT3-A	360		14	
12	☐ 12 GA.	12CHT12	163	88	12CHT12-F	193	12CHT12-A	235		16¼	
12	10	12CHT10	208	111	12CHT10-F	247	12CHT10-A	280		16⁵⁄₁₆	
12	³⁄₁₆	12CHT7	275	144	12CHT7-F	328	12CHT7-A	347	13	16⅜	1½
12	¼	12CHT3	362	188	12CHT3-F	432	12CHT3-A	434		16½	
14	☐ 12 GA.	14CHT12	187	101	14CHT12-F	217	14CHT12-A	259		18¼	
14	10	14CHT10	236	126	14CHT10-F	275	14CHT10-A	308		18⁵⁄₁₆	
14	³⁄₁₆	14CHT7	316	166	14CHT7-F	369	14CHT7-A	388	15	18⅜	1½
14	¼	14CHT3	416	216	14CHT3-F	486	14CHT3-A	488		18½	
16	☐ 12 GA.	16CHT12	212	114	16CHT12-F	242	16CHT12-A	310		21¼	
16	10	16CHT10	268	142	16CHT10-F	307	16CHT10-A	366		21⁵⁄₁₆	
16	³⁄₁₆	16CHT7	358	187	16CHT7-F	411	16CHT7-A	456	17	21⅜	2
16	¼	16CHT3	472	244	16CHT3-F	542	16CHT3-A	570		21½	
18	☐ 12 GA.	18CHT12	242	133	18CHT12-F	280	18CHT12-A	340		23¼	
18	10	18CHT10	304	164	18CHT10-F	352	18CHT10-A	402		23⁵⁄₁₆	
18	³⁄₁₆	18CHT7	405	214	18CHT7-F	471	18CHT7-A	503	19	23⅜	2
18	¼	18CHT3	533	278	18CHT3-F	621	18CHT3-A	631		23½	
20	☐ 10 GA.	20CHT10	335	188	20CHT10-F	381	20CHT10-A	433		25⁵⁄₁₆	
20	³⁄₁₆	20CHT7	446	237	20CHT7-F	510	20CHT7-A	544	21	25⅜	2
20	¼	20CHT3	586	307	20CHT3-F	671	20CHT3-A	684		25½	
24	☐ 10 GA.	24CHT10	399	215	24CHT10-F	445	24CHT10-A	497		29⁵⁄₁₆	
24	³⁄₁₆	24CHT7	531	281	24CHT7-F	594	24CHT7-A	629	25	29⅜	2
24	¼	24CHT3	699	365	24CHT3-F	784	24CHT3-A	797		29½	

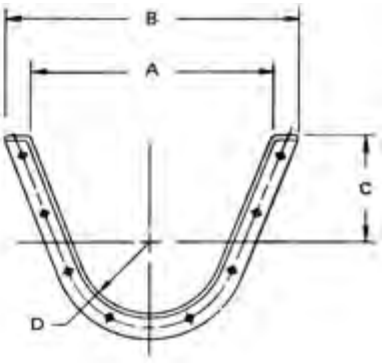
☐ Standard Gauge

For Bolt Patterns See Page H-43

Flared Trough

Flared troughs are used primarily to convey materials which are not free-flowing or which have a tendency to stick to the trough.





Conveyor Diameter	Trough Thickness	Part Number	Weight Per Foot	A	B	C	D	Standard Length Foot
6	☐ 14 GA.	6FCT14	9	14	16⅝	7	3½	10
6	12	6FCT12	12		16¾			
9	☐ 14 GA.	9FCT14	13		21 3/16			
9	12 GA.	9FCT12	14		21¼			
9	10	9FCT10	19	18	21¼	9	5	10
9	3/16	9FCT7	22		21⅜			
9	¼	9FCT3	25		21½			
12	☐ 12 GA.	12FCT12	20		26¼	10	6½	12
12	10	12FCT10	24	22	26¼			
12	3/16	12FCT7	32		26⅜			
12	¼	12FCT3	43		26½			
14	☐ 12 GA.	14FCT12	23		28¼	11	7½	12
14	10	14FCT10	27	24	28¼			
14	3/16	14FCT7	37		28⅜			
14	¼	14FCT3	49		28½			
16	☐ 12 GA.	16FCT12	25		32¼			
16	10	16FCT10	31	28	32¼	11½	8½	12
16	3/16	16FCT7	39		32⅜			
16	¼	16FCT3	52		32½			
18	☐ 12 GA.	18FCT12	27		36¼			
18	10	18FCT10	35	31	36¼	12⅛	9½	12
18	3/16	18FCT7	45		36⅜			
18	¼	18FCT3	56		36½			
20	☐ 10 GA.	20FCT10	36		39¼			
20	3/16	20FCT7	48	34	39⅜	13½	10½	12
20	¼	20FCT3	60		39½			
24	☐ 10 GA.	24FCT10	41	40	45¼	16½	12½	12
24	3/16	24FCT7	54		45⅜			
24	¼	24FCT3	69		45½			

☐ **Standard Gauge** See Page H-42 for Bolt Pattern

Discharges and Gates

Discharge Spout Index

14	TSD	12

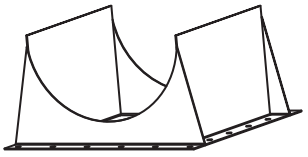
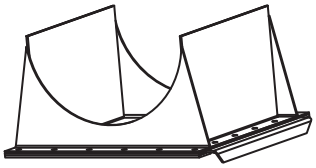
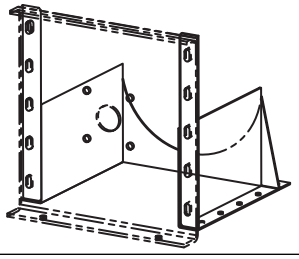
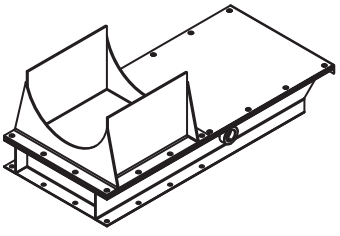
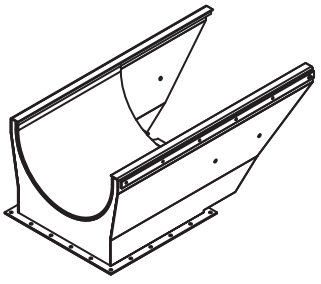
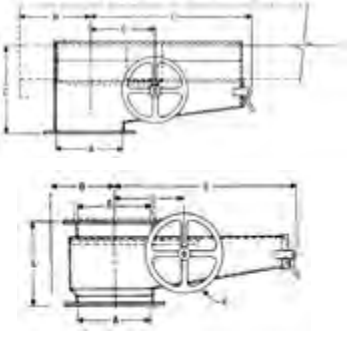
Conveyor Diameter

Types

TSD - Plain, Fixed Spout
TSDS - Plain Fixed Spout W/Slide
TSDF - Flush End Spout
RPF - Rack & Pinion/Flat Side
RPFD - Rack & Pinion/Flat Slide Dust Tight
RPC - Rack & Pinion/Curved Slide
RPCD - Rack & Pinion/Curved Slide Dust Tight

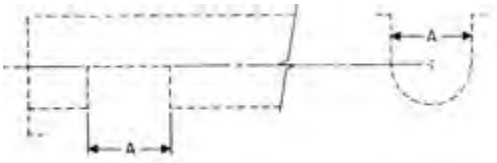
Spout Thickness

16 - 16 Gauge
14 - 14 Gauge
12 - 12 Gauge
10 - 10 Gauge
7 - 3/16

STANDARD DISCHARGE SPOUT		Most commonly used. Flanged hole drilling is per CEMA Standards. Select spout thickness according to trough thickness.
STANDARD DISCHARGE		Standard spout shown above with the addition of the slide and side guides. Select spout thickness according to trough thickness.
FLUSH END DISCHARGE SPOUT		Reduces distance from centerline of discharge to end of the conveyor which eliminates ledge at end of trough and product build-up. Special flush-end trough ends required when this style of discharge is used.
		Rack & pinion type available with hand wheel, rope wheel, pocket wheel and chain. Discharge spout is included when fitted. Flat slide (less rack & pinion) can be furnished with pneumatic, hydraulic, or electric actuators. (Not dust-tight).
CURVED SLIDE GATE		Contoured shape of slide eliminates pocket found in flat slide type. Rack & pinion type available with handwheel, or rope wheel, or pocket wheel with chain. Curved slide (less rack & pinion) can be furnished with pneumatic, hydraulic, or electric actuators. (Standard curved slide gate is not dust-tight.) All curved slide gates should be installed at factory.
DUST TIGHT RACK AND PINION FLAT SLIDE		Dust tight rack and pinions are totally enclosed and can be furnished with either flat or curved slide. Handwheel is normally furnished but is also available with chain or rope wheel.

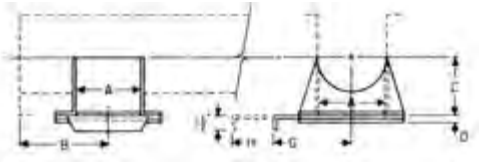
Discharge Spouts

Plain Opening



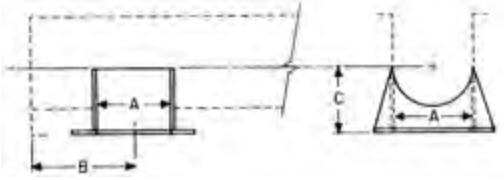
Plain spout openings are cut in the trough permitting free material discharge.

Fixed Spout with Slide Gate



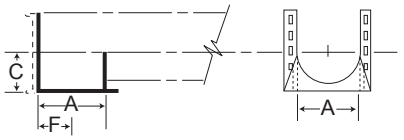
Fixed spouts with slide gates are used where distribution of material is to be controlled. Bolted flange permits slide to be operated from any side.

Fixed Spout



Fixed spouts are fabricated in proportion to size and thickness of trough. Can be furnished loose or welded to trough.

Flush End Spout



Flush end discharge spouts are designed for use at the final discharge point. The end of the spout is comprised of a housing end with bottom flange drilled with standard discharge flange bolt pattern. Because it is located at the extreme end of the conveyor, there is no carryover of material past the final discharge point. The flush end arrangement eliminates the unnecessary extension of trough and interior components beyond the actual discharge point.

Screw Diameter	A	B	C	D	G	H	F
4	5	4½	3¾	5/16	5⅝	11	2½
6	7	6	5	5/16	6⅝	14	3½
9	10	8	7⅛	5/16	8	19	5
10	11	9	7⅛	5/16	8⅝	20	5½
12	13	10½	8⅞	5/16	10⅛	24	6½
14	15	11½	10⅛	5/16	11¼	27	7½
16	17	13½	11⅛	5/16	12⅜	30	8½
18	19	14½	12⅜	5/16	13⅜	33	9½
20	21	15½	13⅜	⅜	14⅜	36	10½
24	25	17½	15⅜	⅜	16⅜	42	12½

Screw Diameter	Trough Thickness Gauge	Spout and Gate Thickness Gauge	Part Number			Weight		
			Fixed Spout		Flush End Spout	Fixed Spout		Flush End Spout
			Plain	With Slide		Plain	Slide	
4	16-14	☐ 14	4TSD14	4TSDS14	4TSDF14	2	6	1.5
4	12	12	4TSD12	4TSDS12	4TSDF12	3	7	2.25
6	14-12	☐ 14	6TSD14	6TSDS14	6TSDF14	4	11	3.0
6	3/16	12	6TSD12	6TSDS12	6TSDF12	6	13	4.50
9	16-14-12-10	☐ 14	9TSD14	9TSDS14	9TSDF14	8	18	6.0
9	3/16-¼	10	9TSD10	9TSDS10	9TSDF10	13	22	9.75
10	14-12-10	☐ 14	10TSD14	10TSDS14	10TSDF14	10	21	7.5
10	3/16-¼	10	10TSD10	10TSDS10	10TSDF10	16	27	12.0
12	12-10	☐ 12	12TSD12	12TSDS12	12TSDF12	17	36	12.75
12	3/16-¼	3/16	12TSD7	12TSDS7	12TSDF7	29	48	21.75
14	12-10	☐ 12	14TSD12	14TSDS12	14TSDF12	22	46	16.50
14	3/16-¼	3/16	14TSD7	14TSDS7	14TSDF7	38	62	28.50
16	12-10	☐ 12	16TSD12	16TSDS12	16TSDF12	21	49	15.75
16	3/16-¼	3/16	16TSD7	16TSDS7	16TSDF7	40	68	30.0
18	12-10	☐ 12	18TSD12	18TSDS12	18TSDF12	32	69	24.0
18	3/16-¼	3/16	18TSD7	18TSDS7	18TSDF7	60	97	45.0
20	10	☐ 12	20TSD12	20TSDS12	20TSDF12	40	91	30.0
20	3/16-¼	3/16	20TSD7	20TSDS7	20TSDF7	67	118	50.25
24	10	☐ 12	24TSD12	24TSDS12	24TSDF12	52	116	39.0
24	3/16-¼	3/16	24TSD7	24TSDS7	24TSDF7	87	151	65.25

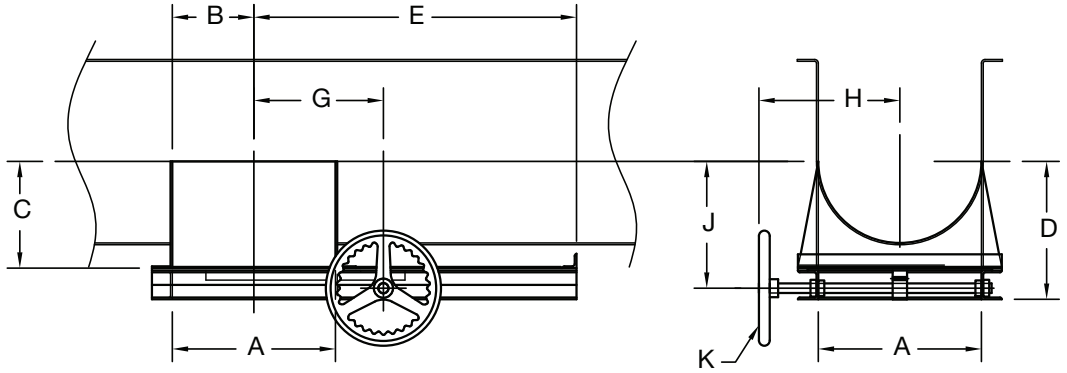
☐ **Standard Gauge**
For Bolt Patterns See Page H-43

① Add –F for Fitted

Discharge Gates

Flat rack and pinion slide gates can be bolted to standard discharge spouts at any of the four positions desired. Hand wheel is normally furnished but is also available with chain or rope wheel.

Rack and Pinion Flat Slide



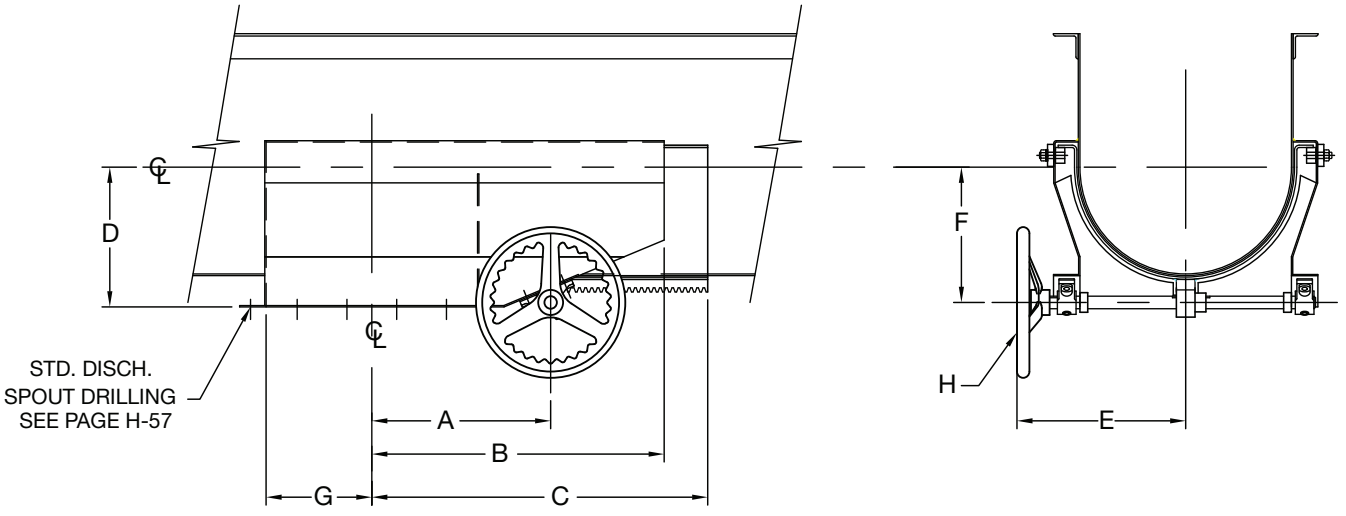
Screw Diameter	A	B	C	D	E	G	H	J	K Diameter
4	5	2½	3¾	7	13½	6½	5	5½	12
6	7	3½	5	8¼	16	7½	6	6¾	12
9	10	5	7⅛	10⅜	20¼	9	9½	8⅞	12
10	11	5½	7⅛	11⅛	23½	10½	10	9⅛	12
12	13	6½	8⅛	12⅛	25½	11	12¼	10⅞	12
14	15	7½	10⅛	13⅜	31¼	12½	13¼	12	12
16	17	8½	11⅛	14⅜	33⅝	13½	14¼	13	12
18	19	9½	12⅜	15⅝	37⅞	14½	15¾	14⅛	12
20	21	10½	13⅜	16 1⁄16	40¾	15½	16¾	15⅛	12
24	25	12½	15⅜	18 1⁄16	46½	17½	18¾	17⅜	12

Screw Diameter	Trough Thickness Gauge	Spout and Gate Thickness Gauge	Part Number Rack and Pinion†	Weight Rack and Pinion
4	16-14	☐ 14	4RPF14	18
4	12	12	4RPF12	21
6	16-14-12	☐ 14	6RPF14	28
6	3⁄16	12	6RPF12	31
9	14-12-10	☐ 14	9RPF14	49
9	3⁄16-¼	10	9RPF10	54
10	14-12-10	☐ 14	10RPF14	56
10	3⁄16-¼	10	10RPF10	62
12	12-10	☐ 12	12RPF12	94
12	3⁄16-¼	3⁄16	12RPF7	106
14	12-10	☐ 12	14RPF12	107
14	3⁄16 -¼	3⁄16	14RPF7	123
16	12-10	☐ 12	16RPF12	112
16	3⁄16-¼	3⁄16	16RPF7	131
18*	12-10	☐ 12	18RPF12	157
18*	3⁄16-¼	3⁄16	18RPF7	185
20*	10	☐ 12	20RPF12	185
20*	3⁄16-¼	3⁄16	20RPF7	212
24*	10	☐ 12	24RPF12	233
24*	3⁄16-¼	3⁄16	24RPF7	268

* Hand Wheels supplied as Standard Assembly
— C Chain Wheel
— R Rope Wheel

☐ **Standard Gauge**
For Bolt Patterns See Page H-43
†**All Rack & Pinion Gates 18" and Larger Have Double Rack & Pinion.**

Rack and Pinion Curved Slide



Conveyor Diameter	Trough Thickness	Spout Thickness	Part Number*	Weight Pounds	A	B	C	D	E	F	G	H Diameter
4 4	14,16 Cal. 12 Cal.	☐ 14 Cal. 12 GA.	4RPC14 4RPC12	20 22	6¼ 6¼	8¾ 8¾	12 12	3¾ 3¾	6 6	4½ 4⅝	2½	12
6 6	16,14,12 GA. 3⁄16"	☐ 14 GA. 12 GA.	6RPC14 6RPC12	25 28	7½ 7½	10½ 10½	15 15	5 5	8 8	5½ 5⅝	3½	12
9 9	14,12,10 GA. 3⁄16",¼"	☐ 14 GA. 10 GA.	9RPC14 9RPC10	46 54	9 9	15 15	20½ 20½	7⅛ 7⅛	8¾ 8¾	7 7⅛	5	12
10 10	14,12,10 GA. 3⁄16",¼"	☐ 14 GA. 10 GA.	10RPC14 10RPC10	53 62	9½ 9½	14½ 14½	21 21	7⅞ 7⅞	9⅛ 9⅛	7½ 7⅝	5½	12
12 12	12,10 GA. 3⁄16",¼"	☐ 12 GA. 3⁄16"	12RPC12 12RPC7	81 97	11⅜ 11⅜	17½ 17½	25¾ 25¾	8⅞ 8⅞	11 11	8½ 8⅝	6½	12
14 14	10,12 GA. 3⁄16",¼"	☐ 12 GA. 3⁄16"	14RPC12 14RPC7	95 114	12⅞ 12⅞	20½ 20½	30¼ 30¼	10⅛ 10⅛	12 12	9½ 9⅝	7½	12
16 16	10,12 GA. 3⁄16",¼"	☐ 12 GA. 3⁄16"	16RPC12 16RPC7	103 116	14⅜ 14⅜	23½ 23½	36 36	11⅛ 11⅛	13 13	10½ 10⅝	8½	12
18 18	10,12 GA. 3⁄16",¼"	☐ 12 GA. 3⁄16"	18RPC12 18RPC7	157 187	15⅞ 15⅞	25½ 25½	37¼ 37¼	12⅜ 12⅜	15⅜ 15⅜	11½ 11⅝	9½	12
20 20	12 GA. 3⁄16",¼"	☐ 12 GA. 3⁄16"	20RPC12 20RPC7	175 208	17⅜ 17⅜	28½ 28½	39 39	13⅜ 13⅜	16⅜ 16⅜	12½ 12⅝	10½	12
24 24	10 GA. 3⁄16",¼"	☐ 12 GA. 3⁄16"	24RPC12 24RPC7	220 265	19⅜ 19⅜	35½ 35½	47 47	15⅜ 15⅜	18⅜ 18⅜	14½ 14⅝	12½	12

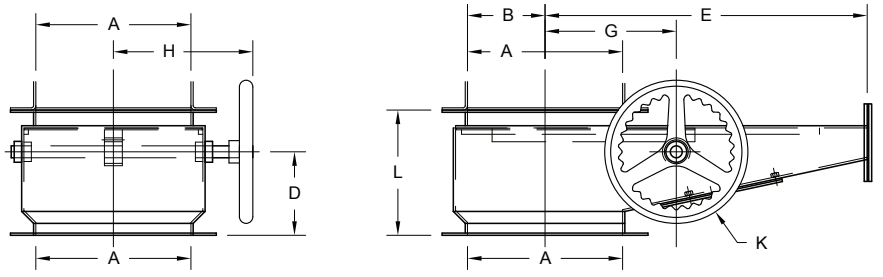
* Hand wheels supplied as Standard Assembly
— C Chain Wheel
— R Rope Wheel

☐ Standard Gauge
For Bolt Patterns See Page H-43

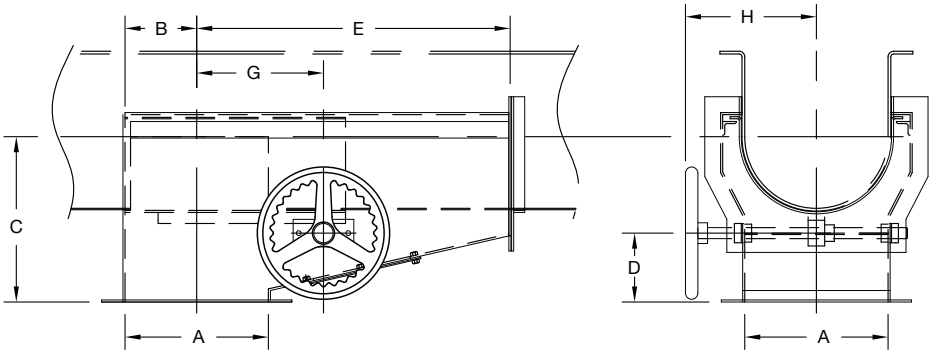
Discharge Gates

Dust Tight Rack and Pinion Flat Slide

Dust tight rack and pinions are totally enclosed and can be furnished with either flat or curved slide. Handwheel is normally furnished but is also available with chain or rope wheel.



Dust Tight Rack and Pinion Curved Slide



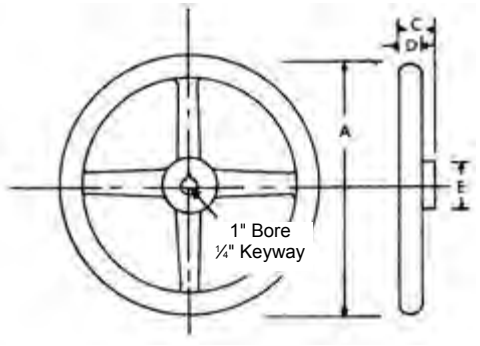
Screw Diameter	A	B	C	D	E	G	H	K Diameter	L
4	5	2½	7½	2½	12	6	7	12	7½
6	7	3½	10	4	18½	7½	8	12	9
9	10	5	12½	5	23	9	11	12	10
10	11	5½	13	5	25	10	11½	12	10½
12	13	6½	15	5	28	11½	13	12	10½
14	15	7½	15½	5½	31	12½	14	12	10½
16	17	8½	16½	5½	34	13½	15	12	10½
18	19	9½	18½	6½	38½	15	16½	12	11½
20	21	10½	20	7	40½	16	17½	12	12
24	25	12½	23	8	47½	18	19½	12	13

Screw Diameter	Trough Thickness Gauge	Spout and Slide Thickness Gauge	Part Number			
			Flat Slide *	Weight	Curved Slide *	Weight
4	16-14	14	4RPFD14	27	4RPCD16	30
4	12	12	4RPFD12	32	4RPCD12	35
6	16-14-12	14	6RPFD14	42	6RPCD16	46
6	3/16	12	6RPFD12	47	6RPCD12	52
9	14-12-10	14	9RPFD12	74	9RPCD12	81
9	3/16-¼	10	9RPFD10	81	9RPCD10	89
10	14-12-10	14	10RPFD14	84	10RPCD14	92
10	3/16-¼	10	10RPFD10	93	104PCD10	102
12	12-10	12	12RPFD12	141	12RPCD12	155
12	3/16-¼	3/16	12RPFD7	158	12RPCD7	174
14	12-10	12	14RPFD12	160	14RPCD12	176
14	3/16-¼	3/16	14RPFD7	185	14RPCD7	204
16	12-10	12	16RPFD12	168	16RPCD12	185
16	3/16-¼	3/16	16RPFD7	197	16RPCD7	217
18	12-10	12	18RPFD12	240	18RPCD12	264
18	3/16-¼	3/16	18RPFD7	277	18RPCD7	305
20	10	12	20RPFD12	278	20RPCD12	306
20	3/16-¼	3/16	20RPFD7	318	20RPCD7	350
24	10	12	24RPFD12	350	24RPCD12	385
24	3/16-¼	3/16	24RPFD7	402	24RPCD7	442

* Handwheel supplied as standard assembly
— C Chain Wheel
— R Rope Wheel

Flange drilling is standard. See page H-43

Discharge Gate Accessories

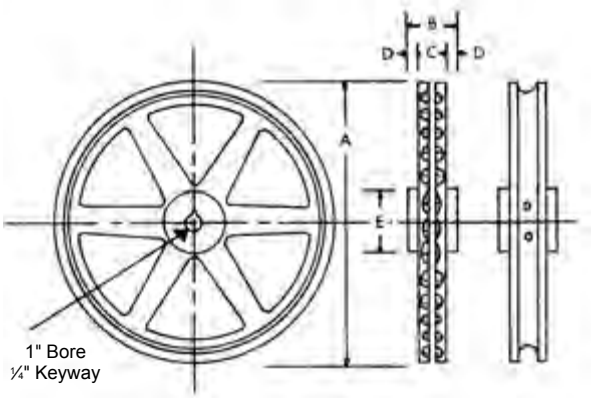


Hand Wheel

Dimensions in Inches and Weight in Pounds

Wheel Diameter	Part No.	Weight	C	D	E
12	12HW1	11	2	1⅛	1⅞

The hand wheel is regularly furnished to rotate the pinion shaft when the slide gate is readily accessible.
NOTE: Zinc or nickel plated hand wheels available on request.



Pocket Wheel & Rope Wheel

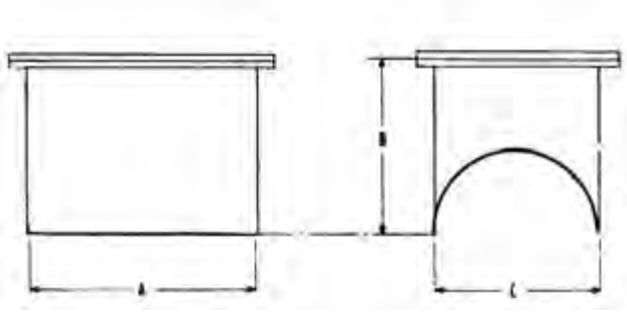
Dimensions in Inches and Average Weights in Pounds

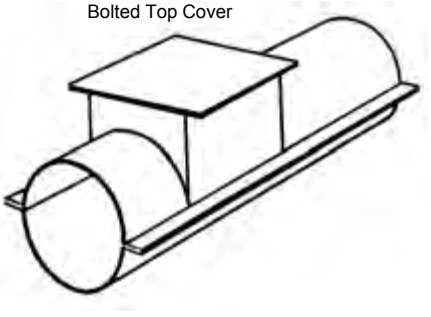
Wheel Diameter	Part No.	Weight	A	B	C	D	E
Chain Wheel	20PW1	11	12¾	2	1⅜	5⁄16	2
Rope Wheel	12RW1	13	12⅝	2¼	1⅝	1¼	1⅞

Pocket chain and rope wheels are used to rotate pinion shaft where remote operation is desired. It is designed to be used with number 3⁄16 pocket chain.
NOTE: Zinc or nickel plated hand wheels available on request.
316 PC Pocket Chain in Stock

Hanger Pockets

Hanger pockets are used with tubular trough and are mounted on the trough at bearing connections. The hanger pocket forms a “U” shaped section for a short distance, allowing the use of standard hangers and providing easy access to them.





Conveyor Diameter	Part Numer	A	B	C	Weight Each
4	4CPH16	8	3¾	5	2
6	6CPH16	12	4¾	7	3
9	9CPH14	12	6⅜	10	4
10	10CPH14	12	6⅝	11	9
12	12CPH12	18	8	13	18
14	14CPH12	18	9½	15	24
16	16CPH12	18	10⅞	17	26
18	18CPH12	18	12⅜	19	55
20	20CPH10	18	13¾	21	70
24	24CPH10	18	16¾	25	85

Trough Ends

Trough Ends

9	TEF	3	-BB	-P

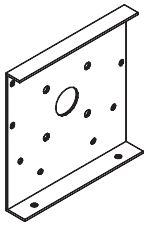
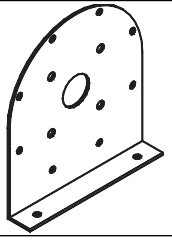
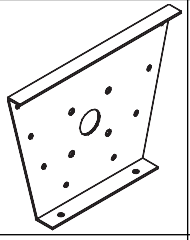
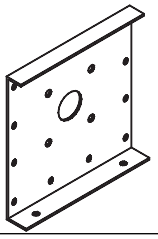
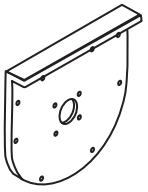
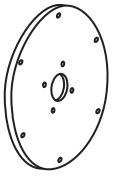
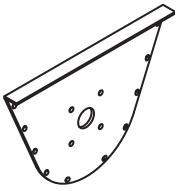
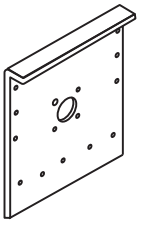
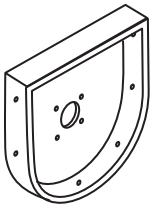
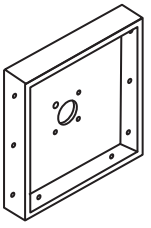
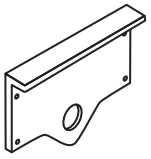
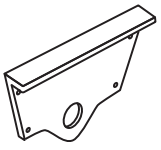
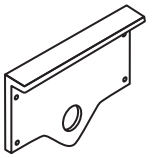
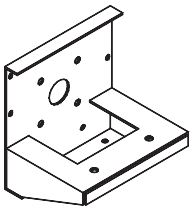
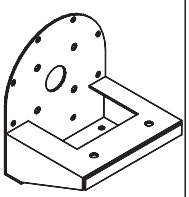
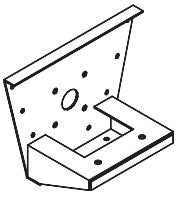
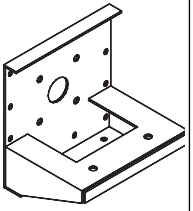
Conveyor Diameter

Type
TE — Outside W/O Feet
TEF — Outside W/Feet
TEI — Inside
TER — Inside Rectangular
TEO — Single Bearing Pedestal
TEOD — Double Bearing Pedestal
FTEF — Outside Flared W/Feet
FTE — Outside Flared W/O Feet
FTEO — Single Bearing Flared Pedestal
FTDO — Flared Discharge End
TDO — Outside Discharge End
TDI — Inside Discharge End
CHTE — Outside Tubular W/O Feet
CHTEF — Outside Tubular W/Feet
SCD —Dorris Screw Drive

Bearing Type
BB - Ball
RB - Roller

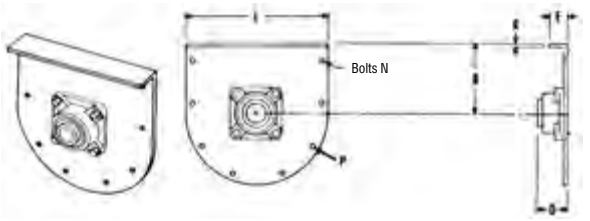
Plate Only

Coupling Diameter
2 — 1"
3 — 1-1/2"
4 — 2"
5 — 2-7/16"
6 — 3"
7 —3-7/16"

	U-TROUGH	TUBULAR TROUGH	FLARED TROUGH	RECTANGULAR TROUGH	
OUTSIDE TROUGH ENDS WITH FEET					Most common type used as trough support is included.
OUTSIDE TROUGH ENDS WITHOUT FEET					Trough support not included.
INSIDE PATTERN TROUGH ENDS		Available on application	Available on application		Used where space is limited or trough does not have end flange.
DISCHARGE TROUGH ENDS		Available on application			For end discharge conveyors. Special flange bearing required.
OUTBOARD BEARING TROUGH ENDS SINGLE					Used when compression type packing gland seal or split gland seal required.

Outside Less Feet

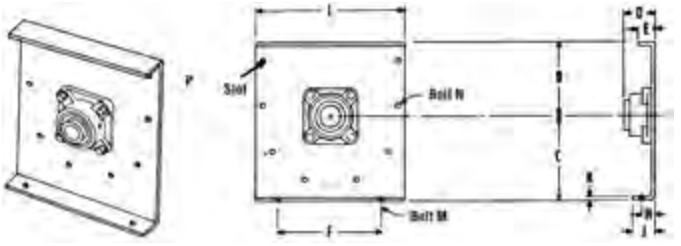
Outside trough ends less feet are used to support end bearing and cover when no trough support is required. Drilling for bronze bearing or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	B	D			E	K	L	N	Weight	P Slot
				Friction Bearing	Ball Bearing	Roller Bearing						
4	1	4TE2–*	3⅝	2³⁄₁₆	1⅝		1⁷⁄₁₆	¼	8⅛	⅜	3	⁷⁄₁₆ × ⅝
6	1½	6TE3–*	4½	3³⁄₁₆	2³⁄₁₆	3¹¹⁄₁₆	1½	¼	10⅛	⅜	4	⁷⁄₁₆ × ⅝
9	1½	9TE3–*	6⅛	3¼	2³⁄₁₆	3¹¹⁄₁₆	1⅝	¼	13¾	⅜	9	⁷⁄₁₆ × ⅝
	2	9TE4–*	6⅛	4¼	2½	3¹³⁄₁₆	1⅝	¼	13¾	⅜	9	
10	1½	10TE3–*	6⅜	3¼	2³⁄₁₆	3¹¹⁄₁₆	1¾	¼	14¾	⅜	11	⁷⁄₁₆ × ⅝
	2	10TE4–*	6⅜	4¼	2½	3¹³⁄₁₆	1¾	¼	14¾	⅜	11	⁷⁄₁₆ × ⅝
12	2	12TE4–*	7¾	4¼	2⅝	3⅞	2	¼	17¼	½	20	⅝ × ¹¹⁄₁₆
	2⁷⁄₁₆	12TE5–*	7¾	5¼	2¹⁵⁄₁₆	4⅞	2	¼	17¼	½	20	
	3	12TE6–*	7¾	6¼	3¾	4¹⁵⁄₁₆	2	¼	17¼	½	20	
14	2⁷⁄₁₆	14TE5–*	9¼	5⁵⁄₁₆	2¹⁵⁄₁₆	4⅞	2	¼	19¼	½	35	⅝ × ¹¹⁄₁₆
	3	14TE6–*	9¼	5⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	¼	19¼	½	35	
16	3	16TE6–*	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2½	⁵⁄₁₆	21¼	⅝	42	¹¹⁄₁₆ × ¹³⁄₁₆
18	3	18TE6–*	12⅛	6⅜	3¹³⁄₁₆	5	2½	⅜	24¼	⅝	60	¹¹⁄₁₆ × ¹³⁄₁₆
	3⁷⁄₁₆	18TE7–*	12⅛	7⅜	4⁵⁄₁₆	5⁹⁄₁₆	2½	⅜	24¼	⅝	60	
20	3	20TE6–*	13½	6⅜	3⅞	5¹⁄₁₆	2½	⅜	26¼	⅝	90	¹¹⁄₁₆ × ¹³⁄₁₆
	3⁷⁄₁₆	20TE7–*	13½	7⅜	4⅜	5⅝	2½	⅜	26¼	⅝	90	
24	3⁷⁄₁₆	24TE7–*	16½	7⅜	4⅜	5⅝	2½	⅜	30¼	⅝	120	¹¹⁄₁₆ × ¹³⁄₁₆

Outside With Feet

Outside trough ends with feet are used to support end bearing, cover and trough. Drilling for bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	B	C	D			E	F	H	J	K	L	M	N	Weight	P Slot
					Friction Bearing	Ball Bearing	Roller Bearing										
4	1	4TEF2–*	3⅝	4⅝	2¹⁵⁄₁₆	1⅝	—	1⁷⁄₁₆	5¾	1	1⅝	¼	8⅛	⅜	⅜	4	⁷⁄₁₆ × ⅝
6	1½	6TEF3–*	4½	5⅝	3¹⁵⁄₁₆	2³⁄₁₆	3¹¹⁄₁₆	1½	8⅛	1	1¾	¼	10⅛	⅜	⅜	7	⁷⁄₁₆ × ⅝
9	1½	9TEF3–*	6⅛	7⅛	3¹⁵⁄₁₆	2³⁄₁₆	3¹¹⁄₁₆	1⅝	9⅜	1½	2⅝	¼	13¾	½	⅜	12	⁷⁄₁₆ × ⅝
	2	9TEF4–*	6⅛	7⅛	4¹⁵⁄₁₆	2½	3¹³⁄₁₆	1⅝	9⅜	1½	2⅝	¼	13¾	½	⅜	12	⁷⁄₁₆ × ⅝
10	1½	10TEF3–*	6⅜	8⅛	3¹⁵⁄₁₆	2³⁄₁₆	3¹¹⁄₁₆	1¾	9½	1¾	2⅞	¼	14¾	½	⅜	14	⁷⁄₁₆ × ⅝
	2	10TEF4–*	6⅜	8⅛	4¹⁵⁄₁₆	2½	3¹³⁄₁₆	1¾	9½	1¾	2⅞	¼	14¾	½	⅜	14	⁷⁄₁₆ × ⅝
12	2	12TEF4–*	7¾	9⅝	5	2⁹⁄₁₆	3⅞	2	12¼	1⅝	2¾	¼	17¼	⅝	½	23	⅝ × ¹¹⁄₁₆
	2⁷⁄₁₆	12TEF5–*	7¾	9⅝	5½	2¹⁵⁄₁₆	4⅞	2	12¼	1⅝	2¾	¼	17¼	⅝	½	23	⅝ × ¹¹⁄₁₆
	3	12TEF6–*	7¾	9⅝	5⅝	3¾	4¹⁵⁄₁₆	2	12¼	1⅝	2¾	¼	17¼	⅝	½	23	⅝ × ¹¹⁄₁₆
14	2⁷⁄₁₆	14TEF5–*	9¼	10⅞	5½	2¹⁵⁄₁₆	4⅞	2	13½	1⅝	2⅞	¼	19¼	⅝	½	38	⅝ × ¹¹⁄₁₆
	3	14TEF6–*	9¼	10⅞	5⅝	3¾	4¹⁵⁄₁₆	2	13½	1⅝	2⅞	¼	19¼	⅝	½	38	⅝ × ¹¹⁄₁₆
16	3	16TEF6–*	10⅝	12	5¹¹⁄₁₆	3¹³⁄₁₆	5	2½	14⅞	2	3¼	⁵⁄₁₆	21¼	⅝	⅝	45	¹¹⁄₁₆ × ¹³⁄₁₆
18	3	18TEF6–*	12⅛	13⅜	5¹¹⁄₁₆	3¹³⁄₁₆	5	2½	16	2	3¼	⅜	24¼	⅝	⅝	67	¹¹⁄₁₆ × ¹³⁄₁₆
	3⁷⁄₁₆	18TEF7–*	12⅛	13⅜	6¹⁵⁄₁₆	4⅝	5⅝	2½	16	2	3¼	⅜	24¼	⅝	⅝	67	¹¹⁄₁₆ × ¹³⁄₁₆
20	3	20TEF6–*	13½	15	5¾	3⅞	5¹⁄₁₆	2½	19¼	2¼	3¾	⅜	26¼	¾	⅝	120	¹¹⁄₁₆ × ¹³⁄₁₆
	3⁷⁄₁₆	20TEF7–*	13½	15	7	4⅜	5⅝	2½	19¼	2¼	3¾	⅜	26¼	¾	⅝	120	¹¹⁄₁₆ × ¹³⁄₁₆
24	3⁷⁄₁₆	24TEF7–*	16½	18⅛	7	4⅜	5⅝	2½	20	2½	4⅛	⅜	30¼	¾	⅝	162	¹¹⁄₁₆ × ¹³⁄₁₆

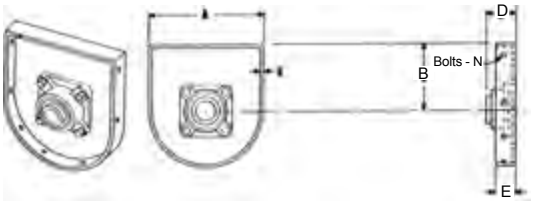
▲ Can be furnished with CSP, CSW, or CSFP seals

–*BB Ball Bearing
–*BR Bronze Bearing
–*RB Roller Bearing
–*P Less Bearing

Trough Ends

Inside

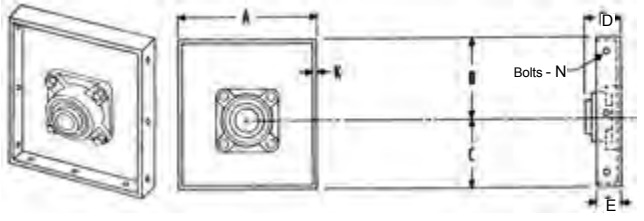
Inside trough ends are used in place of outside type where no trough end flanges are required. Drilling for bronze bearings or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	A	B	D			E	K	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4TEI2–*	5	3 5/8	2 3/16	1 5/8	—	2	1/4	1/4	3
6	1 1/2	6TEI3–*	7	4 1/2	3 3/16	2 3/16	3 1 1/16	2	1/4	5/16	5
9	1 1/2 2	9TEI3–* 9TEI4–*	10 10	6 1/8 6 1/8	3 1/4 4 1/4	2 3/16 2 1/2	3 1 1/16 3 1 3/16	2 2	1/4 1/4	3/8 3/8	9 9
10	1 1/2 2	10TEI3–* 10TEI4–*	11 11	6 3/8 6 3/8	3 1/4 4 1/4	2 3/16 2 1/2	3 1 1/16 3 1 3/16	2 2	1/4 1/4	3/8 3/8	11 11
12	2 2 1/16 3	12TEI4–* 12TEI5–* 12TEI6–*	13 13 13	7 3/4 7 3/4 7 3/4	4 1/4 5 1/4 6 1/4	2 9/16 2 15/16 3 3/4	3 7/8 4 7/16 4 15/16	2 2 2	1/4 1/4 1/4	1/2 1/2 1/2	19 19 19
14	2 1/16 3	14TEI5–* 14TEI6–*	15 15	9 1/4 9 1/4	5 5/16 6 5/16	2 15/16 3 3/4	4 7/16 4 15/16	2 2	1/4 1/4	1/2 1/2	34 34
16	3	16TEI6–*	17	10 5/8	6 5/16	3 13/16	5	2	5/16	5/8	40
18	3 3 7/16	18TEI6–* 18TEI7–*	19 19	12 1/8 12 1/8	6 3/8 7 3/8	3 13/16 4 5/16	5 5 9/16	2 2	3/8 3/8	5/8 5/8	58 58
20	3 3 7/16	20TEI6–* 20TEI7–*	21 21	13 1/2 13 1/2	6 3/8 7 3/8	3 3/8 4 3/8	5 1/16 5 5/8	2 2	3/8 3/8	5/8 5/8	83 83
24	3 7/16	24TEI7–*	25	16 1/2	7 3/8	4 3/8	5 5/8	2	3/8	5/8	116

Inside Rectangular

Rectangular trough ends are used inside of rectangular trough. Drilling for bronze bearing or flanged ball bearing is standard.



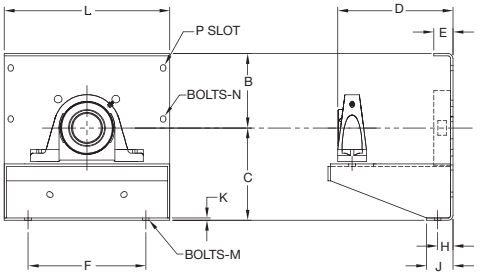
Conveyor Diameter	Shaft Diameter	▲ Part Number	A	B	C	D			E	K	N	Weight
						Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4TER2–*	5	3 5/8	2 1/2	2 3/16	1 5/8	—	2	1/4	1/4	4
6	1 1/2	6TER3–*	7	4 1/2	3 1/2	3 3/16	2 3/16	3 1 1/16	2	1/4	5/16	6
9	1 1/2 2	9TER3–* 9TER4–*	10 10	6 1/8 6 1/8	5 5	3 1/4 4 1/4	2 3/16 2 1/2	3 1 1/16 3 1 3/16	2 2	1/4 1/4	3/8 3/8	9 9
10	1 1/2 2	10TER3–* 10TER4–*	11 11	6 3/8 6 3/8	5 1/2 5 1/2	3 1/4 4 1/4	2 3/16 2 1/2	3 1 1/16 3 1 3/16	2 2	1/4 1/4	3/8 3/8	12 12
12	2 2 1/16 3	12TER4–* 12TER5–* 12TER6–*	13 13 13	7 3/4 7 3/4 7 3/4	6 1/2 6 1/2 6 1/2	4 1/4 5 1/4 6 1/4	2 9/16 2 15/16 3 3/4	3 7/8 4 7/16 4 15/16	2 2 2	1/4 1/4 1/4	1/2 1/2 1/2	21 21 21
14	2 1/16 3	14TER5–* 14TER6–*	15 15	9 1/4 9 1/4	7 1/2 7 1/2	5 5/16 6 5/16	2 15/16 3 3/4	4 7/16 4 15/16	2 2	1/4 1/4	1/2 1/2	35 35
16	3	16TER6–*	17	10 5/8	8 1/2	6 5/16	3 13/16	5	2	5/16	5/8	41
18	3 3 7/16	18TER6–* 18TER7–*	19 19	12 1/8 12 1/8	9 1/2 9 1/2	6 3/8 7 3/8	3 13/16 4 5/16	5 5 9/16	2 2	3/8 3/8	5/8 5/8	60 60
20	3 3 7/16	20TER6–* 20TER7–*	21 21	13 1/2 13 1/2	10 1/2 10 1/2	6 3/8 7 3/8	3 3/8 4 3/8	5 1/16 5 5/8	2 2	3/8 3/8	5/8 5/8	88 88
24	3 7/16	24TER7–*	25	16 1/2	12 1/2	7 3/8	4 3/8	5 5/8	2	3/8	5/8	125

▲ Can be furnished with CSP, CSW, or CSS seals

–*BB Ball Bearing
–*BP Bronze Bearing
–*RB Roller Bearing
–*P Less Bearing

Single Bearing

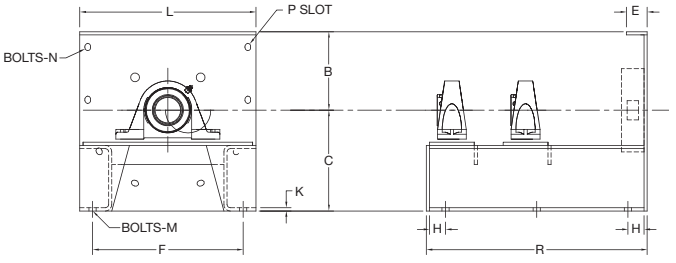
Single bearing pedestal type trough ends are constructed with base for mounting pillow block bearings and shaft seal or packing gland.



Conveyor Diameter	Shaft Diameter	Part Number	B	C	D	E	F	H	J	K	L	M	N	P Slot	Weight
6	1½	6TEO3	**Consult Factory**												
9	1½ 2	9TEO3 9TEO4													
10	1½ 2	10TEO3 10TEO4													
12	2 2 7/16 3	12TEO4 12TEO5 12TEO6													
14	2 7/16 3	14TEO5 14TEO6													
16	3	16TEO6													
18	3 3 7/16	18TEO6 18TEO7													
20	3 3 7/16	20TEO6 20TEO7													
24	3 7/16	24TEO7													

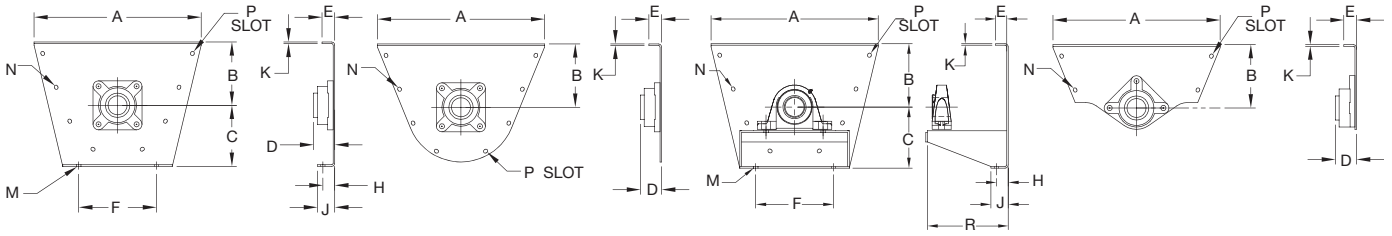
Double Bearing

Double bearing pedestal type trough ends are for use with pillow block bearing in conjunction with a flanged bearing providing extra shaft support.



Conveyor Diameter	Shaft Diameter	Part Number	B	C	E	F	H	K	L	M	N	R	P Slot	Weight
6	1½	6TEOD3	**Consult Factory**											
9	1½ 2	9TEOD3 9TEOD4												
10	1½ 2	10TEOD3 10TEOD4												
12	2 2 7/16 3	12TEOD4 12TEOD5 12TEOD6												
14	2 7/16 3	14TEOD5 14TEOD6												
16	3	16TEOD6												
18	3 3 7/16	18TEOD6 18TEOD7												
20	3 3 7/16	20TEOD6 20TEOD7												
24	3 7/16	24TEOD7												

Trough Ends



Outside With Feet **Outside Less Feet** **Outboard Bearing** **Discharge**

Application: same as standard trough ends except for flared trough.

Conveyor Diameter	Shaft Diameter	A	B	C	D			E	F	H	J	K	M	N	R	P Slot
					Friction Bearing	Ball Bearing	Roller Bearing									
6	1½	16⅝	7	5⅝	3 3/16	2 3/16	3¾	1½	8⅛	1	1¾	¼	⅜	⅜	Consult Factory	7/16 × 9/16
9	1½ 2	21¼ 21¼	9 9	7⅞ 7⅞	3¼ 4¼	2 3/16 2½	3¾ 3⅞	1⅝ 1⅝	9⅜ 9⅜	1½ 1½	2⅝ 2⅝	¼ ¼	½ ½	⅜ ⅜		7/16 × 9/16 7/16 × 9/16
12	2 2 1/16 3	26⅜ 26⅜ 26⅜	10 10 10	9⅝ 9⅝ 9⅝	4¼ 5¼ 6¼	2 9/16 2 15/16 3¾	3⅞ 4½ 5	2 2 2	12¼ 12¼ 12¼	1⅝ 1⅝ 1⅝	2¾ 2¾ 2¾	¼ ¼ ¼	⅝ ⅝ ⅝	½ ½ ½		9/16 × 1 1/16 9/16 × 1 1/16 9/16 × 1 1/16
14	2 7/16 3	28⅜ 28⅜	11 11	10⅞ 10⅞	5 5/16 6 5/16	2 15/16 3¾	4½ 5	2 2	13½ 13½	1⅝ 1⅝	2⅞ 2⅞	¼ 5/16	⅝ ⅝	½ ½		9/16 × 1 1/16 9/16 × 1 1/16
16	3	32½	11½	12	6 5/16	3 13/16	5	2½	14⅞	2	3¼	5/16	⅝	⅝		1 1/16 × 1 3/16
18	3 3 1/16	36½ 36½	12⅛ 12⅛	13⅜ 13⅜	6⅜ 7⅜	3 13/16 4 5/16	5 5⅝	2½ 2½	16 16	2 2	3¼ 3¼	⅜ ⅜	⅝ ⅝	⅝ ⅝		1 1/16 × 1 3/16 1 1/16 × 1 3/16
20	3 3 1/16	39½ 39½	13½ 13½	15 15	6⅜ 7⅜	3⅞ 4⅜	5 5⅝	2½ 2½	19¼ 19¼	2¼ 2¼	3¾ 3¾	⅜ ⅜	¾ ¾	⅝ ⅝		1 1/16 × 1 3/16 1 1/16 × 1 3/16
24	3 1/16	45½	16½	18⅛	7⅜	4⅜	5⅝	2½	20	2½	4⅛	⅜	¾	⅝		1 1/16 × 1 3/16

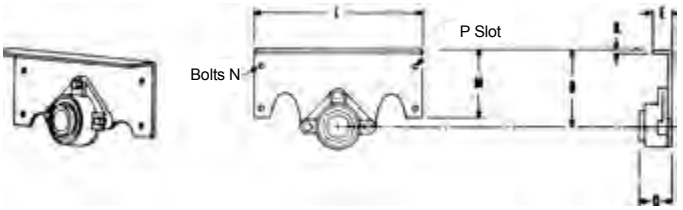
Conveyor Diameter	Shaft Diameter	Part Number							
		Outside With Feet	Weight	Outside Less Feet	Weight	Outboard Bearing	Weight	Discharge	Weight
6	1½	6FTEF3.*	15	6FTE3–*	13	6FTEO3–*	22	6FTDO3–**	11
9	1½ 2	9FTEF3–* 9FTEF4–*	22 27	9FTE3–* 9FTE4–*	19 24	9FTEO3–* 9FTEO4–*	31 36	9FTDO3–** 9FTDO4–**	15 20
12	2 2 1/16 3	12FTEF4–* 12FTEF5–* 12FTEF6–*	43 44 56	12FTE4–* 12FTE5–* 12FTE6–*	36 37 49	12FTEO4–* 12FTEO5–* 12FTEO6–*	63 64 76	12FTDO4–** 12FTDO5–** 12FTDO6–**	28 29 41
14	2 7/16 3	14FTEF5–* 14FTEF6–*	52 64	14FTE5–* 14FTE6–*	43 55	14FTEO5–* 14FTEO6–*	75 87	14FTDO5–** 14FTDO6–**	33 45
16	3	16FTEF6–*	85	16FTE6–*	72	16FTEO6–*	125	16FTDO6–**	56
18	3 3 1/16	18FTEF6–* 18FTEF7–*	98 104	18FTE6–* 18FTE7–*	83 89	18FTEO6–* 18FTEO7–*	138 144	18FTDO6–** 18FTDO7–**	63 69
20	3 3 1/16	20FTEF6–* 20FTEF7–*	133 139	20FTE6–* 20FTE7–*	103 109	20FTEO6–* 20FTEO7–*	196 202	20FTDO6–** 20FTDO7–**	75 81
24	3 1/16	24FTEF7–*	179	24FTE7–*	132	24FTEO7–*	250	24FTDO7–**	96

–*BB-P Ball Bearing Plate Only
–*RB-P Roller Bearing Plate Only

For Bolt Pattern see Page H-41

Outside Discharge

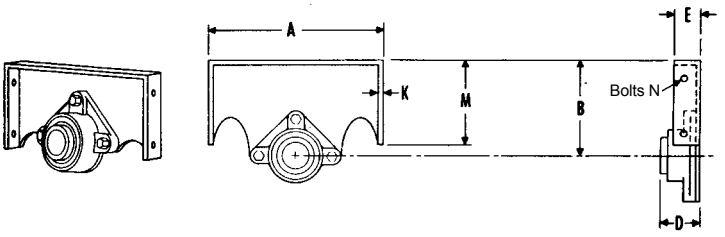
Outside discharge trough ends are used to support end bearing and will allow material to discharge or overflow through the end of the trough. Drilling for three bolt bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	B	D			E	K	L	M	N	P Slot	Weight
				Friction Bearing	Ball Bearing	Roller Bearing							
4	1	4TDO2.*	3⅜	2⁹⁄₁₆	1⅝		1⁷⁄₁₆	¼	8	3⅝	⅜	⁷⁄₁₆ × ⁹⁄₁₆	2
6	1½	6TDO3–*	4½	3³⁄₁₆	2³⁄₁₆	3¹¹⁄₁₆	1½	¼	9¾	4½	⅜	⁷⁄₁₆ × ⁹⁄₁₆	3
9	1½	9TDO3–*	6⅛	3¼	2³⁄₁₆	3¹¹⁄₁₆	1⅝	¼	13¾	6⅛	⅜	⁷⁄₁₆ × ⁹⁄₁₆	5
	2	9TDO4–*	6⅛	4¼	2½	3¹³⁄₁₆	1⅝	¼	13¾	6⅛	⅜	⁷⁄₁₆ × ⁹⁄₁₆	5
10	1½	10TDO3–*	6⅜	3¼	2³⁄₁₆	3¹¹⁄₁₆	1¾	¼	14¾	6⅜	⅜	⁷⁄₁₆ × ⁹⁄₁₆	6
	2	10TDO4–*	6⅜	4¼	2½	3¹³⁄₁₆	1¾	¼	14¾	6⅜	⅜	⁷⁄₁₆ × ⁹⁄₁₆	6
12	2	12TDO4–*	7¾	4¼	2⁹⁄₁₆	3⅞	2	¼	17¼	7¾	½	⁹⁄₁₆ × ¹¹⁄₁₆	12
	2⁷⁄₁₆	12TDO5–*	7¾	5¼	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	17¼	7¾	½	⁹⁄₁₆ × ¹¹⁄₁₆	12
	3	12TDO6–*	7¾	6¼	3¾	4¹⁵⁄₁₆	2	¼	17¼	7¾	½	⁹⁄₁₆ × ¹¹⁄₁₆	12
14	2⁷⁄₁₆	14TDO5–*	9¼	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	19¼	9¼	½	⁹⁄₁₆ × ¹¹⁄₁₆	17
	3	14TDO6–*	9¼	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	¼	19¼	9¼	½	⁹⁄₁₆ × ¹¹⁄₁₆	17
16	3	16TDO6–*	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2½	⁵⁄₁₆	21¼	10⅝	⅝	¹¹⁄₁₆ × ¹³⁄₁₆	26
18	3	18TDO6–*	12⅛	6⅜	3¹³⁄₁₆	5	2½	⅜	24¼	12⅛	⅝	¹¹⁄₁₆ × ¹³⁄₁₆	33
	3⁷⁄₁₆	18TDO7–*	12⅛	7⅜	4⁵⁄₁₆	5⁹⁄₁₆	2½	⅜	24¼	12⅛	⅝	¹¹⁄₁₆ × ¹³⁄₁₆	33
20	3	20TDO6–*	13½	6⅜	3⅜	5¹⁄₁₆	2½	⅜	26¼	13½	⅝	¹¹⁄₁₆ × ¹³⁄₁₆	55
	3⁷⁄₁₆	20TDO7–*	13½	7⅜	4⅜	5⅝	2½	⅜	26¼	13½	⅝	¹¹⁄₁₆ × ¹³⁄₁₆	55
24	3⁷⁄₁₆	24TDO7–*	16½	7⅜	4⅜	5⅝	2½	⅜	30½	16½	⅝	¹¹⁄₁₆ × ¹³⁄₁₆	81

Inside Discharge

Inside discharge trough ends are used to support end bearing and will allow material to discharge or overflow through the end of the trough. This trough end is used inside the trough where no trough end flanges are required. Drilling for three bolt bronze or flanged ball bearing is standard.



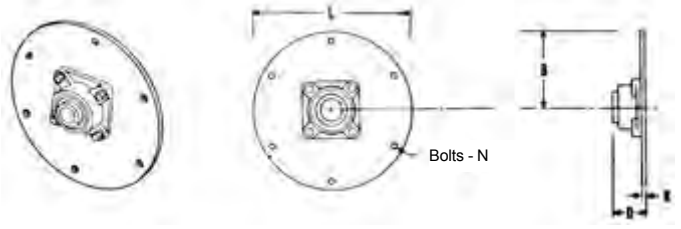
Conveyor Diameter	Shaft Diameter	Part Number	A	B	D			E	K	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing					
4	1	4TDI2–*	5	3⅜	2⁹⁄₁₆	1⅝		2	¼	3⅝	⅜	2
6	1½	6TDI3–*	7	4½	3³⁄₁₆	2³⁄₁₆	3¹¹⁄₁₆	2	¼	4½	⅜	3
9	1½	9TDI3–*	10	6⅛	3¼	2³⁄₁₆	3¹¹⁄₁₆	2	¼	6⅛	⅜	5
	2	9TDI4–*	10	6⅛	4¼	2½	3¹³⁄₁₆	2	¼	6⅛	⅜	5
10	1½	10TDI3–*	11	6⅜	3¼	2³⁄₁₆	3¹¹⁄₁₆	2	¼	6⅜	⅜	6
	2	10TDI4–*	11	6⅜	4¼	2½	3¹³⁄₁₆	2	¼	6⅜	⅜	6
12	2	12TDI4–*	13	7¾	4¼	2⁹⁄₁₆	3⅞	2	¼	7¾	½	12
	2⁷⁄₁₆	12TDI5–*	13	7¾	5¼	2¹³⁄₁₆	4⁷⁄₁₆	2	¼	7¾	½	12
	3	12TDI6–*	13	7¾	6¼	3¾	4¹⁵⁄₁₆	2	¼	7¾	½	12
14	2⁷⁄₁₆	14TDI5–*	15	9¼	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	9¼	⅝	16
	3	14TDI6–*	15	9¼	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	¼	9¼	⅝	16
16	3	16TDI6–*	17	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2	⁵⁄₁₆	10⅝	⅝	25
18	3	18TDI6–*	19	12⅛	6⅜	3¹³⁄₁₆	5	2	⅜	12⅛	⅝	32
	3⁷⁄₁₆	18TDI7–*	19	12⅛	7⅜	4⁵⁄₁₆	5⁹⁄₁₆	2	⅜	12⅛	⅝	32
20	3	20TDI16–*	21	13½	6⅜	3⅞	5⁹⁄₁₆	2	⅜	13½	⅝	50
	3⁷⁄₁₆	20TDI7–*	21	13½	7⅜	4⅜	5⅝	2	⅜	13½	⅝	50
24	3⁷⁄₁₆	24TDI7–*	25	16½	7⅜	4⅜	5⅝	2	⅜	16½	⅝	76

–*BB-P Ball Bearing Plate Only
–*RB-P Roller Bearing Plate Only

Trough Ends

Outside

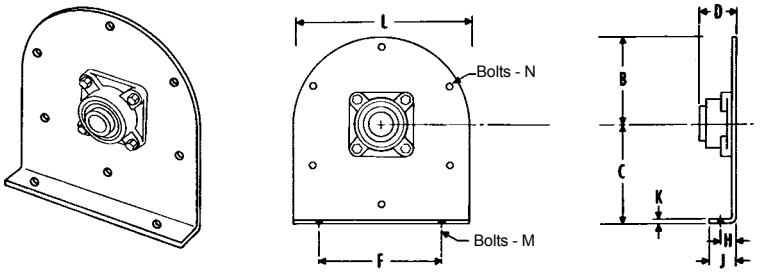
Outside tubular trough ends less feet are used to support end bearings on tubular trough where no foot or support is required. Drilling for bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	B	D			K	L	N	Weight
				Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4CHTE2–*	4	2 3/16	1 5/8		1/4	8	3/8	2
6	1 1/2	6CHTE3–*	5 1/16	3 3/16	2 3/16	3 11/16	1/4	10 1/8	3/8	3
9	1 1/2	9CHTE3–*	6 5/8	3 1/4	2 3/16	3 11/16	1/4	13 1/4	3/8	6
	2	9CHTE4–*	6 5/8	4 1/4	2 1/2	3 13/16	1/4	13 1/4	3/8	6
10	1 1/2	10CHTE3–*	7 3/8	3 1/4	2 3/16	3 11/16	1/4	14 3/4	3/8	7
	2	10CHTE4–*	7 3/8	4 1/4	2 1/2	3 13/16	1/4	14 3/4	3/8	7
12	2	12CHTE4–*	8 1/8	4 1/4	2 9/16	3 7/8	1/4	16 1/4	1/2	13
	2 1/16	12CHTE5–*	8 1/8	5 1/4	2 15/16	4 7/16	1/4	16 1/4	1/2	13
	3	12CHTE6–*	8 1/8	6 1/4	3 3/4	4 15/16	1/4	16 1/4	1/2	13
14	2 1/16	14CHTE5–*	9 1/8	5 5/16	2 15/16	4 7/16	1/4	18 1/4	1/2	19
	3	14CHTE6–*	9 1/8	6 5/16	3 3/4	4 15/16	1/4	18 1/4	1/2	19
16	3	16CHTE6–*	10 5/8	6 5/16	3 13/16	5	5/16	21 1/4	5/8	29
18	3	18CHTE6–*	12 1/8	6 3/8	3 13/16	5	3/8	24 1/4	5/8	39
	3 1/16	18CHTE7–*	12 1/8	7 3/8	4 5/16	5 9/16	3/8	24 1/4	5/8	39
20	3	20CHTE6–*	13 1/8	6 3/8	3 3/8	5 1/16	3/8	26 1/4	5/8	63
	3 1/16	20CHTE7–*	13 1/8	7 3/8	4 3/8	5 5/8	3/8	26 1/4	5/8	63
24	3 1/16	24CHTE7–*	15 1/8	7 3/8	4 3/8	5 5/8	3/8	30 1/4	5/8	87

Outside with Feet

Outside tubular trough ends with feet are used to support end bearing where trough support is required. Drilling for bronze bearing or flanged ball bearing is standard.

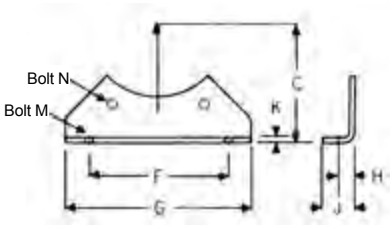


Conveyor Diameter	Shaft Diameter	Part Number	B	C	D			F	H	J	K	L	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing								
4	1	4CHTEF2–*	4	4 5/8	2 3/16	1 5/8		5 3/4	1	1 5/8	1/4	8	3/8	3/8	3
6	1 1/2	6CHTEF3–*	5 1/16	5 5/8	3 3/16	2 3/16	3 11/16	8 1/8	1	1 3/4	1/4	10 1/8	3/8	3/8	5
9	1 1/2	9CHTEF3–*	6 5/8	7 1/8	3 1/4	2 3/16	3 11/16	9 3/8	1 1/2	2 5/8	1/4	13 1/4	1/2	3/8	10
	2	9CHTEF4–*	6 5/8	7 1/8	4 1/4	2 1/2	3 13/16	9 3/8	1 1/2	2 5/8	1/4	13 1/4	1/2	3/8	10
10	1 1/2	10CHTEF3–*	7 3/8	8 1/8	3 1/4	2 3/16	3 11/16	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	12
	2	10CHTEF4–*	7 3/8	8 1/8	4 1/4	2 1/2	3 13/16	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	12
12	2	12CHTEF4–*	8 1/8	9 5/8	4 1/4	2 9/16	3 7/8	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
	2 1/16	12CHTEF5–*	8 1/8	9 5/8	5 1/4	2 15/16	4 7/16	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
	3	12CHTEF6–*	8 1/8	9 5/8	6 1/4	3 3/4	4 15/16	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
14	2 1/16	14CHTEF5–*	9 1/8	10 7/8	5 5/16	2 15/16	4 7/16	13 1/2	1 5/8	2 7/8	1/4	18 1/4	5/8	1/2	24
	3	14CHTEF6–*	9 1/8	10 7/8	6 5/16	3 3/4	4 15/16	13 1/2	1 5/8	2 7/8	1/4	18 1/4	5/8	1/2	24
16	3	16CHTEF6–*	10 5/8	12	6 5/16	3 13/16	5	14 7/8	2	3 1/4	5/16	21 1/4	5/8	5/8	44
18	3	18CHTEF6–*	12 1/8	13 3/8	6 3/8	3 13/16	5	16	2	3 1/4	3/8	24 1/4	5/8	5/8	56
	3 1/16	18CHTEF7–*	12 1/8	13 3/8	7 3/8	4 5/16	5 9/16	16	2	3 1/4	3/8	24 1/4	5/8	5/8	56
20	3	20CHTEF6–*	13 1/8	15	6 3/8	3 7/8	5 1/16	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	92
	3 1/16	20CHTEF7–*	13 1/8	15	7 3/8	4 3/8	5 5/8	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	92
24	3 1/16	24CHTEF7–*	15 1/8	18 1/8	7 3/8	4 3/8	5 5/8	20	2 1/2	4 1/8	3/8	30 1/4	3/4	5/8	134

–*BB-P Ball Bearing Plate Only
–*RB-P Roller Bearing Plate Only

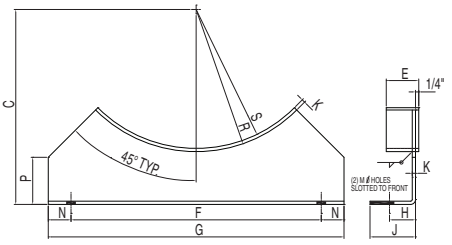
For Bolt Pattern see Page H-42

Saddles — Feet
Trough End Flanges



Flange Foot

Trough feet are used to support trough at trough connections.



Saddle

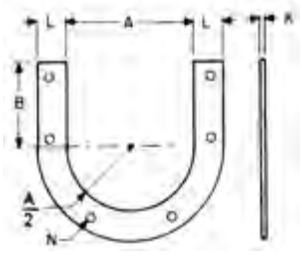
Trough saddles are used to support trough where flange feet cannot be used at connections.

Conveyor Diameter	Part Number			Weight		
	Saddle	Tubular	Flange Foot	Saddle	Tubular	Flange Foot
4	4TS	4CHTFF	4TFF	1.5	1	1.5
6	6TS	6CHTFF	6TFF	2.0	2	2.0
9	9TS	9CHTFF	9TFF	4.5	4.5	4.5
10	10TS	10CHTFF	10TFF	5.0	4.5	5.0
12	12TS	12CHTFF	12TFF	6.0	5	6.0
14	14TS	14CHTFF	14TFF	7.0	7	7.0
16	16TS	16CHTFF	16TFF	8.0	8	7.5
18	18TS	18CHTFF	18TFF	10.0	10	9.5
20	20TS	20CHTFF	20TFF	13.0	11	12.51
24	24TS	24CHTFF	24TFF	15.0	12	14.5

Conveyor Diameter	C	E	F	G	H	J	K	M*	N
4	4⅝	1 7/16	5¾	7⅜	1	1⅝	3/16	⅜	⅜
6	5⅝	1 7/16	8⅛	10	1¼	2	3/16	⅜	⅜
9	7⅞	1¾	9⅜	12	1½	2⅝	3/16	½	⅜
10	8⅛	1¾	9½	12⅜	1¾	2⅞	3/16	½	½
12	9⅝	1¾	12¼	15	1⅝	2¾	¼	⅝	½
14	10⅞	2	13½	16½	1⅝	2⅞	¼	⅝	½
16	12	2	14⅛	18	2	3¼	¼	⅝	⅝
18	13⅜	2	16	19⅛	2	3¼	¼	⅝	⅝
20	15	2¼	19¼	22¾	2¼	3¾	¼	¾	⅝
24	18⅛	2¼	20	24	2½	4	¼	¾	⅝

*Holes for Bolt M Slotted

Trough End Flanges

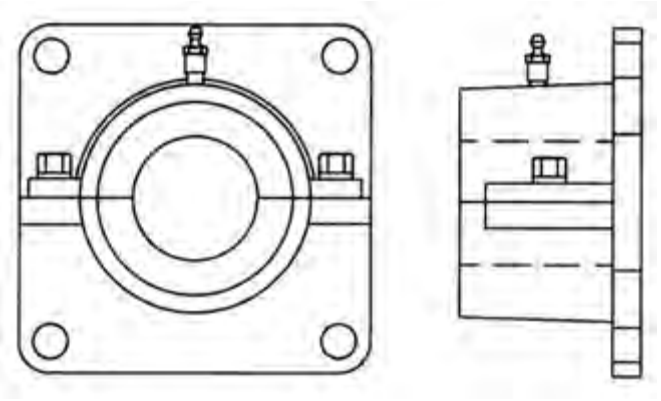


Size	Part No.	A Trough Thickness Thru 10 Ga.	A Trough Thickness 3/16 & 1/4	B	K	L	N	Weight	Red Rubber Gasket Part No.
4	4TF*	5¼	5⅜	3⅜	¼	1¼	⅜	.09	4TFG
6	6TF*	7¼	7⅜	4¼	¼	1½	⅜	1.5	6TFG
9	9TF*	10¼	10½	5⅞	¼	1¾	⅜	2.4	9TFG
10	10TF*	11¼	11½	6⅛	¼	1¾	⅜	2.6	10TFG
12	12TF*	13¼	13½	7½	¼	2	½	5.6	12TFG
14	14TF*	15¼	15½	9	¼	2	½	6.5	14TFG
16	16TF*	17¼	17½	10⅜	¼	2	⅝	7.4	16TFG
18	18TF*	19¼	19½	11 13/16	¼	2½	⅝	10.2	18TFG
20	20TF*	21¼	21½	13 3/16	¼	2½	⅝	11.3	20TFG
24	24TF*	25¼	25½	16½	¼	2½	⅝	15.5	24TFG

*–10 used for troughs through 10 ga., –3 used for troughs 3/16 and ¼ thick.
*** For White Rubber Gasket Add WN

End Bearings

KEEP THE HOUSING REPLACE THE INSERT.



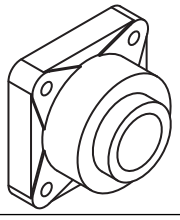
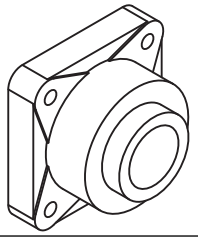
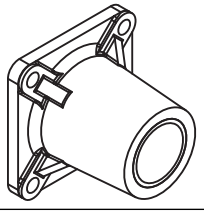
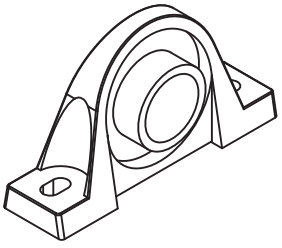
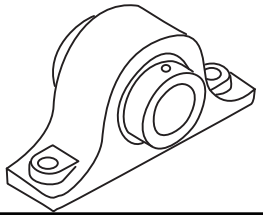
TEBH- Split Bearing Housings will help cut down on a plant's repair parts inventory, as well as the cost of the bearing. The rugged cast iron housing is not subject to wear, only the Style 220 Hanger bearing insert needs to be replaced.

The housings match CEMA standard ball bearing bolt pattern, so they can be used with most seals.

Split bearing housings are stocked in all Martin stocking facilities. Call your Martin distributor for more information.

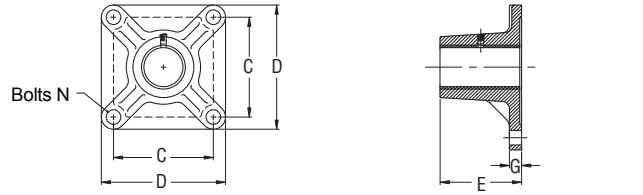
TROUGH END BEARING HOUSINGS

Martin Split Bearing Housings utilize Martin Style 220 Hanger Bearings.

FLANGE UNITS	Mounted on trough end plate.		Ball Bearing Flange Unit
			Roller Bearing Flange Unit
			Bronze Sleeve Bearing Flange Unit
PILLOW BLOCKS	Mounted on pedestal of outboard bearing trough end.		Ball Bearing Pillow Block
			Roller Bearing Pillow Block

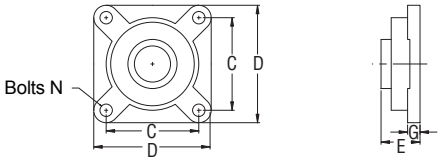
End Bearings

Bronze Flange Unit



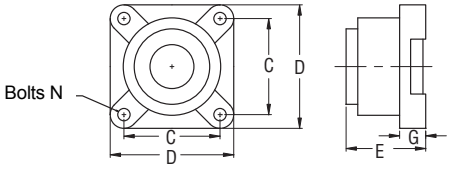
Bore	Part Number	C	D	E	G	N
1	TEB2BR	2¾	3¾	2	17/32	⅜
1½	TEB3BR	4	5⅛	3¼	9/16	9/16
2	TEB4BR	5⅛	6⅝	4 3/16	⅝	1 1/16
2 7/16	TEB5BR	5⅝	6⅞	4 15/16	13/16	1 1/16
3	TEB6BR	6	7¾	5 1/16	⅞	1 1/16
3 7/16	TEB7BR	6¾	8 7/16	6¼	1	1 3/16

Ball Bearing Flange Unit



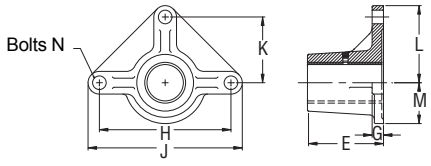
Bore	Part Number	C	D	E	G	N
1	TEB2BB	2¾	3¾	1⅜	½	⅜
1½	TEB3BB	4	5⅛	2	9/16	½
2	TEB4BB	5⅛	6½	2⅜	1 1/16	⅝
2 7/16	TEB5BB	5⅝	7	2½	1 1/16	⅝
3	TEB6BB	6	7¾	3½	⅞	¾
3 7/16	TEB7BB	6¾	8 7/16	4	1	¾

Roller Bearing Flange Unit



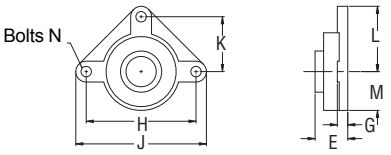
Bore	Part Number	C	D	E	G	N
1½	TEB3R	4⅛	5⅜	3½	1 3/16	½
2	TEB4R	4⅜	5⅝	3⅝	1 3/16	½
2 7/16	TEB5R	5⅜	6⅞	4 3/16	1½	⅝
3	TEB6R	6	7¾	4 11/16	1⅜	¾
3 7/16	TEB7R	7	9¼	5¼	1⅞	¾

Bronze Discharge Unit



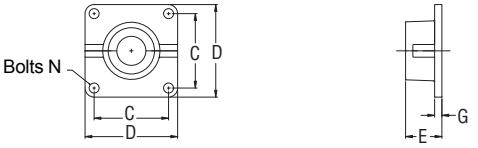
Bore	Part Number	E	G	H	J	K	L	M	N
1	TDB2BR	2	½	3⅜	5⅜	1 15/16	2 1/16	1	⅜
1½	TDB3BR	3¼	9/16	5⅝	7¼	2 13/16	3⅝	1¼	½
2	TDB4BR	4 3/16	⅝	7¼	8	3⅝	4	1⅝	⅝
2 7/16	TDB5BR	4 15/16	1 1/16	8	9⅞	4	4 15/16	1⅞	⅝
3	TDB6BR	5 1/16	⅞	8½	11	4¼	5½	2⅛	¾
3 7/16	TDB7BR	6¼	1	9½	12	4¾	6	2½	¾

Ball Bearing Discharge Unit



Bore	Part Number	E	G	H	J	K	L	M	N
1	TDB2BB	1⅜	½	3⅞	5⅜	1 15/16	2 1/16	2	⅜
1½	TDB3BB	2	9/16	5⅝	7¼	2 13/16	3⅜	2½	½
2	TDB4BB	2⅜	⅝	7¼	8	3⅜	4	3	⅝
2 7/16	TDB5BB	2½	1 1/16	8	9⅞	4	4 15/16	3½	⅝
3	TDB6BB	3½	⅞	8½	11	4¼	5½	4	¾
3 7/16	TDB7BB	4	1	9½	12	4¾	6	4½	¾

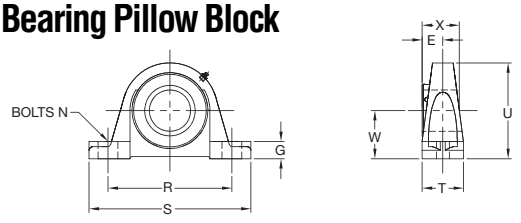
Trough End Bearing Housing



Bore	Part Number	C	D	E	G	N
1½	TEBH3	4	5¼	2½	½	½
2	TEBH4	5⅛	6⅜	2½	½	⅝
2 7/16	TEBH5	5⅝	6⅞	3 9/16	9/16	⅝
3	TEBH6	6	7¾	3⅝	⅝	¾
3 7/16	TEBH7	7	9¼	4¾	¾	¾

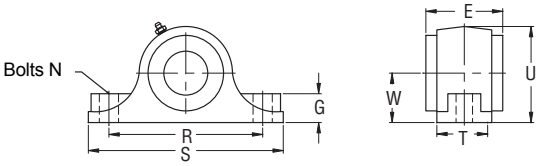
Use #220 Type Hanger Bearings, See Page H-92.

Ball Bearing Pillow Block



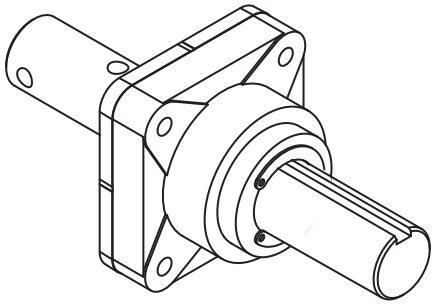
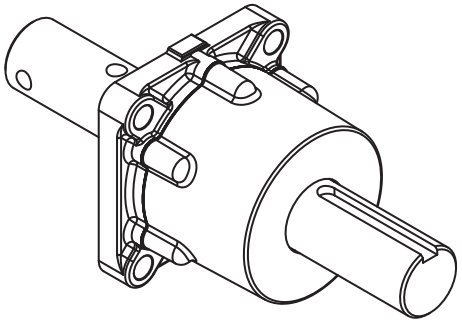
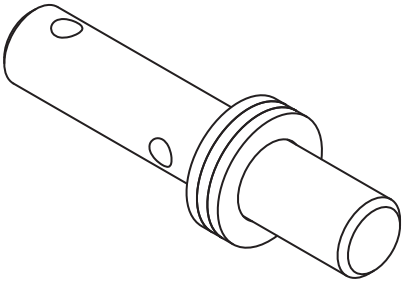
Bore	Part Number	E	G	N	R	S	T	U	W	X
1	TPB2BB	51/64	19/32	⅜	4⅛	5½	1 1/16	2 13/16	1 1/16	1 11/64
1½	TPB3BB	1 1/64	⅞	½	5½	7¼	1⅛	4⅛	2⅛	1 21/64
2	TPB4BB	1 17/64	1	⅝	6⅜	8¼	2⅛	4 17/64	2¼	1 13/16
2 7/16	TPB5BB	1 15/16	1 1/16	⅝	7⅜	9⅝	2⅜	5 15/32	2¾	1 57/64
3	TPB6BB	1½	1¼	⅞	9	11¾	3	6 31/32	3 13/16	2⅜
3 7/16	TPB7BB	1 9/16	1 11/32	⅞	11	14	3⅜	7⅛	4	2 23/64

Roller Bearing Pillow Block



Bore	Part Number	E	G	N	R	S	T	U	W
1½	TPB3R	3⅜	1¼	½	6¼	7⅞	2⅜	4¼	2⅛
2	TPB4R	3½	1⅜	⅝	7	8⅞	2½	4½	2¼
2 7/16	TPB5R	4	1⅝	⅝	8½	10½	2⅞	5½	2¾
3	TPB6R	4½	1⅞	¾	9½	12	3⅜	6¼	3⅛
3 7/16	TPB7R	5	2¼	⅞	11	14	3⅝	7½	3¾

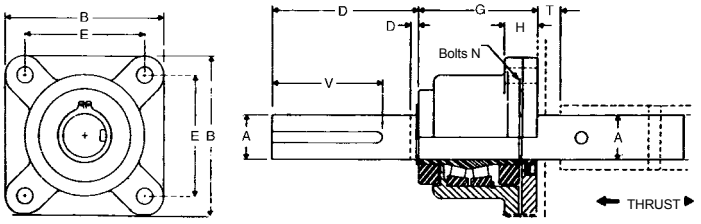
Thrust Bearings

TYPE E THRUST BEARINGS		Most common and economical thrust unit when a screw conveyor type drive is not being used.
TYPE H THRUST BEARINGS		For heavy duty thrust requirements.
BRONZE WASHER		Light duty applications only. Used inside the trough and when screw used in compression.

Thrust Bearings

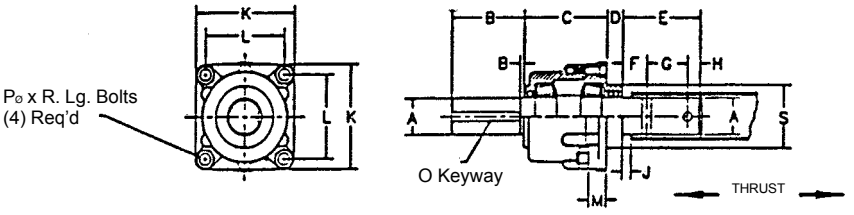
Type E Thrust Assembly

Type E roller thrust bearings are designed to carry thrust in both directions and carry radial load under normal conditions. This double roller bearing is furnished with a lip type seal plate and either drive or tail shaft whichever is applicable to conveyor design.



A	Part Number		B	D		E	G	H	N	T	V	Weight	
Shaft Diameter	Drive Shaft	End Shaft		Drive Shaft	End Shaft							Drive Shaft	End Shaft
1½	CT3D	CT3E	5⅜	4¾	¾	4⅛	4	1 11/16	½	1¼	4	22	20
2	CT4D	CT4E	5⅝	5	¾	4⅜	4⅛	1 11/16	½	1¼	4½	32	29
2 7/16	CT5D	CT5E	6⅞	5½	¾	5⅜	4 11/16	2	⅝	1 13/16	5	50	44
3	CT6D	CT6E	7¾	6½	¾	6	5 3/16	2⅛	¾	1⅞	6	73	60
3 7/16	CT7D	CT7E	9¼	7½	¾	7	6	2⅝	¾	2⅜	7	111	88

Heavy Duty RB End Thrust Bearings

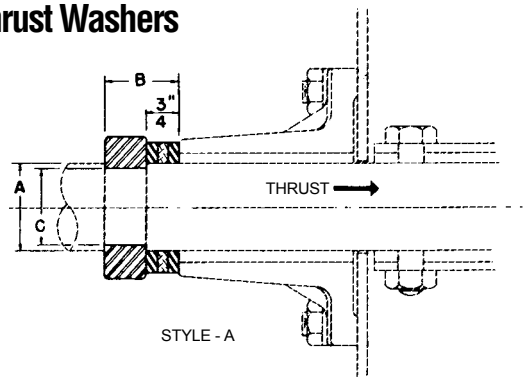


Dimensions in inches and average weight in pounds

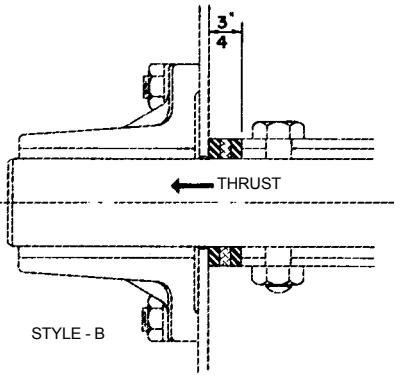
A	With Drive Shaft		With Tail Shaft		B		C	D	E	F	G	H	J	K	L	M	O	P	R	S
Shaft Dia.	Part No.	Weight	Part No.	Weight	Drive Shaft	End Shaft											Keyway			
1½	CTH3D	60	CTH3E	52	4½	¼	6¾	1⅛	4⅞	1	3	⅞	⅛	7¼	5¾	1 3/16	⅜ × 4¼	¾	2½	4¾
2	CTH4D	65	CTH4E	56	4½	¼	6¾	1⅛	4⅞	1	3	⅞	⅛	7¼	5¾	1 3/16	½ × 4¼	¾	2½	4¾
2 7/16	CTH5D	80	CTH5E	66	5 9/16	5/16	6¼	1¼	5 7/16	1½	3	15/16	9/16	8	6¼	1½	⅝ × 5¼	¾	3	5½
3	CTH6D	145	CTH6E	119	6⅛	¼	8¼	1½	5⅜	1⅜	3	1	⅜	10	8	1¾	¾ × 5¾	1	3½	6
3 7/16	CTH7D	170	CTH7E	140	7⅛	⅜	8¼	1½	7⅝	2⅜	4	1¼	⅞	10	8	1¾	⅞ × 6¾	1	3½	6

Other shaft sizes available are 3 15/16", 4 7/16" & 4 15/16". Please consult factory.

Thrust Washers

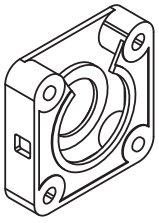
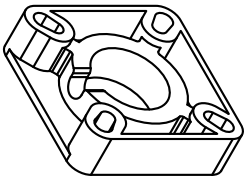
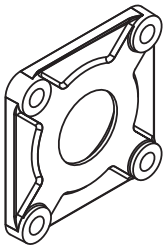
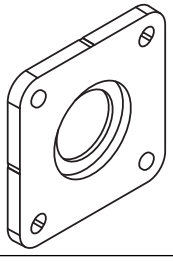
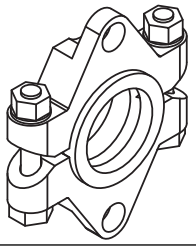
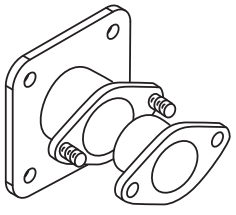
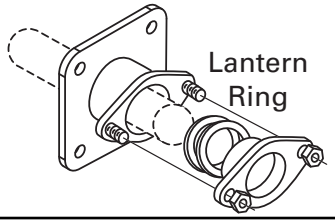


Thrust washers are designed for use where light thrust loads prevail. Style A or B mounting may be used depending on direction of thrust. This unit consists of two steel washers separated by one bronze washer, and Style B is not recommended for use in conveyors handling abrasive materials.

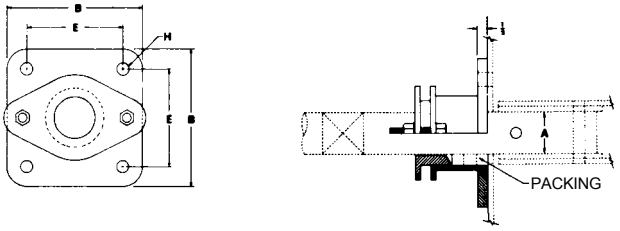


A	Washers & Collar Style A		Washer Set Style B		B	C
Size Shaft	Part No.	Weight	Part No.	Weight		
1½	CTCW3	2.4	CTW3	1 1¼	1¼	
2	CTCW4	2.8	CTW4	1.25	1 1/16	1¾
2 7/16	CTCW5	3.9	CTW5	1.5	1½	2⅛
3	CTCW6	4.6	CTW6	2 1½	2¾	
3 7/16	CTCW7	6.1	CTW7	3 1⅜	3¼	

Shaft Seals

WASTE PACK SEAL		Waste pack seals can be furnished with waste packing or in combination with lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. An opening is provided at top for repacking without removing seal from trough end. Can be used with flanged ball, roller or other standard 4-bolt bearings.
Martin SUPER PACK SEAL		Martin Super Pack Seal combines the heavy duty waste pack housing with the superior sealing characteristics of a Super Pack Seal. Seal may also be air or grease purged for difficult sealing applications.
PRODUCT DROP OUT SEAL		This flange type dust seal is designed for insertion between trough end and flanged ball bearing. The cast iron housing is open on all four sides for exit of material that might work past seal or lubricant from bearing.
PLATE SEAL		Plate seals are the most common and economical seal. It is normally furnished with a lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. Can be used with flanged ball, roller or other standard 4-bolt bearings.
SPLIT GLAND SEAL		Split gland compression type seals provide for easy replacement and adjustment of packing pressure on the shaft without removal of the conveyor. These seals can be installed inside or outside the end plates.
COMPRESSION TYPE PACKING GLAND SEAL		Flanged packing gland seals consist of an external housing and an internal gland which is forced into the housing to compress the packing. This is the most positive type shaft seal and may be used where minor pressure requirements are desired.
AIR PURGED SEAL		Air purge shaft seals are arranged for attaching to standard or special trough ends. A constant air pressure is maintained to prevent material from escaping from the trough along the shaft. The air purge seal is desirable for sealing highly abrasive materials. May be purged with grease or water.

Compression Type Packing Gland Seal

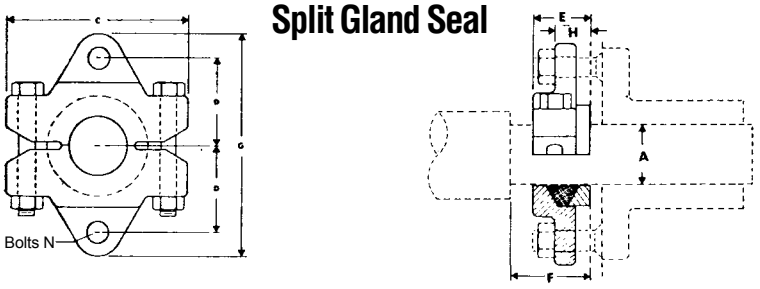


Shaft Diameter	Part Number	B	E	H Bolts	Weight
1½	PGC3	5¼	4	½	14
2	PGC4	7⅛	5⅛	⅝	18
2 7/16	PGC5	7⅝	5⅝	⅝	21
3	PGC6	8½	6	¾	27
3 7/16	PGC7	9¼	6¾	¾	30

*Braided rope graphite packing is standard. Other types available on request.

Flanged gland seals consist of an external housing and an internal gland which is forced into the housing to compress the packing. This is the most positive type shaft seal and may be used where pressure requirements are desired.

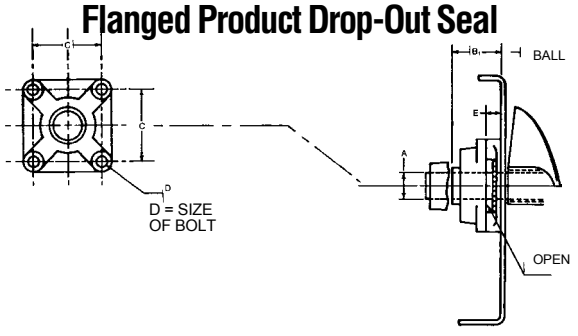
Split Gland Seal



Shaft Diameter	Part Number	C	D	E	F	G	H	N	Weight
1½	CSS3	4¾	2 3/16	1 7/16	2½	5⅛	⅛	½	5
2	CSS4	6¼	2⅝	1½	2½	6½	⅛	½	10
2 7/16	CSS5	6⅞	3 1/16	1⅝	3¼	7⅝	1	⅝	15
3	CSS6	7½	3 9/16	1⅝	3¼	8⅝	1	⅝	22
3 7/16	CSS7	8¾	4⅛	2⅛	3¾	10¼	1¼	¾	30

Split gland compression type seals provide for easy replacement and adjustment of packing pressure on the shaft without removal of the conveyor. These seals are normally installed inside the end plates.

Flanged Product Drop-Out Seal



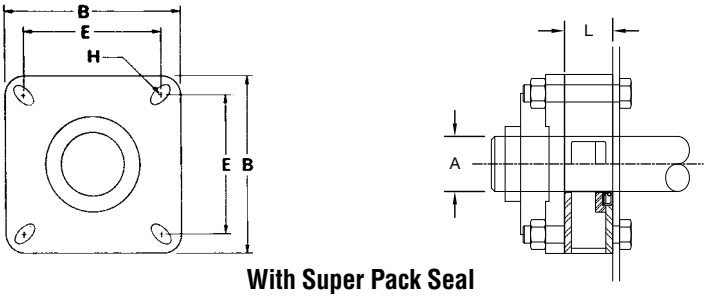
Dimensions in inches and average weight in pounds

Shaft Diameter	Part Number	Weight	B_1	C	E	D
1	CSFP2	1.75	2⅛	2¾	1 1/16	⅜
1½	CSFP3	3.4	2 57/64	4	⅞	½
2	CSFP4	5.3	3 1/16	5⅛	⅞	⅝
2 7/16	CSFP5	5.8	3 9/16	5⅝	⅞	⅝
3	CSFP6	7.2	4⅜	6	⅞	¾
3 7/16	CSFP7	10.3	4 31/32	6¾	1	¾

This flange type dust seal is designed for insertion between trough end and flanged bearing. The cast iron housing is open on all four sides for exit of material that might work past seal or lubricant from bearing.

Shaft Seals

Super Pack Seal

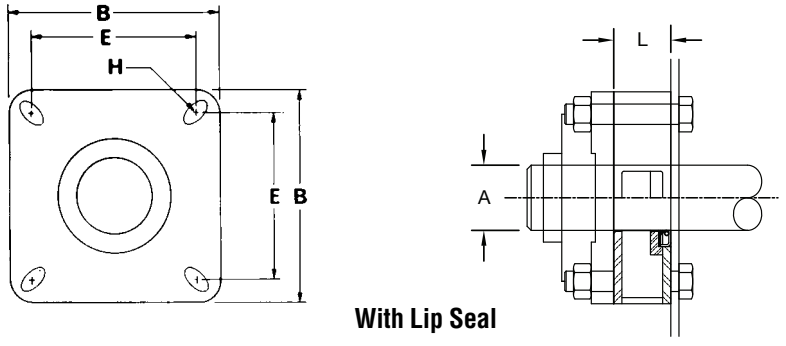


With Super Pack Seal

A Shaft	Part Number	B	L	E		H Bolts		Weight
				(–B)	(–R)	(–B)	(–R)	
1½	MSP3	5⅜	1¾	4	4⅛	½	½	6
2	MSP4	6½	1¾	5⅛	4⅜	⅝	½	8
2⁷⁄₁₆	MSP5	7⅜	1¾	5⅝	5⅜	⅝	⅝	10
3	MSP6	7¾	1¾	6	6	¾	¾	13
3⅞	MSP7	9¼	2¼	6¾	7	¾	¾	16

Martin Super Pack Seal combines the heavy duty waste pack housing with the superior sealing characteristics of a Super Pack Seal. Seal may also be air or grease purged for difficult sealing applications.

Waste Pack Seal



With Lip Seal

A Shaft	Part Number	B	L	E		H Bolts		Weight
				(–B)	(–R)	(–B)	(–R)	
1½	CSW3	5⅜	1¾	4	4⅛	½	½	6
2	CSW4	6½	1¾	5⅛	4⅜	⅝	½	8
2⁷⁄₁₆	CSW5	7⅜	1¾	5⅝	5⅜	⅝	⅝	10
3	CSW6	7¾	1¾	6	6	¾	¾	13
3⅞	CSW7	9¼	2¼	6¾	7	¾	¾	16

Waste pack seals are furnished with waste packing in combination with lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. An opening is provided at top for repacking without removing seal from trough end.

Plate Seal

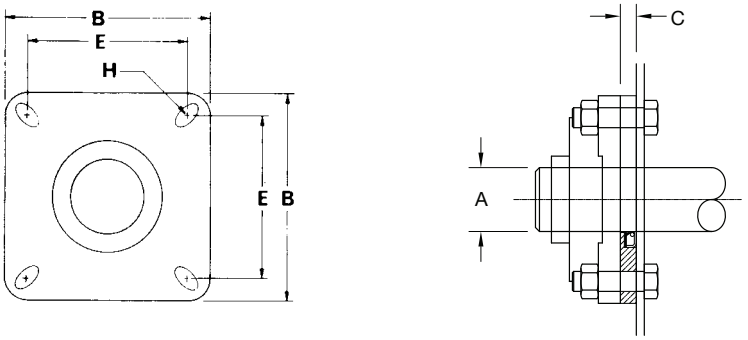
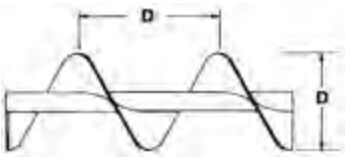


Plate seals are the most common and economical seal. They are furnished with a lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. Slotted mounting holes allow use with both ball and roller flanged bearings.

A Shaft Diameter	Part Number	B	C	E		H Bolts		Weight
				(–B)	(–R)	(–B)	(–R)	
1½	CSP3	5⅜	½	4	4⅛	½	½	2
2	CSP4	6½	½	5⅛	4⅜	⅝	½	3
2⁷⁄₁₆	CSP5	7⅜	½	5⅝	5⅜	⅝	⅝	4
3	CSP6	7¾	½	6	6	¾	¾	5
3⅞	CSP7	9¼	¾	6¾	7	¾	¾	8

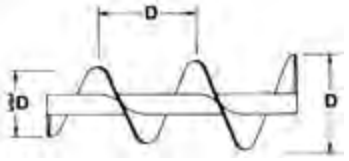
Conveyor Screws

STANDARD PITCH, SINGLE FLIGHT



Conveyor screws with pitch equal to screw diameter are considered standard. They are suitable for a whole range of materials in most conventional applications.

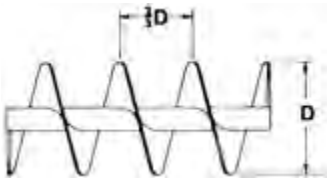
TAPERED, STANDARD PITCH, SINGLE FLIGHT



Price on Application

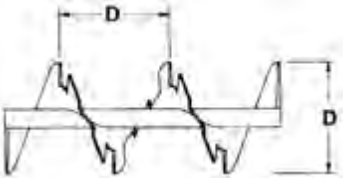
Screw flights increase from 2/3 to full diameter. Used in screw feeders to provide uniform withdrawal of lumpy materials. Generally equivalent to and more economical than variable pitch.

SHORT PITCH, SINGLE FLIGHT



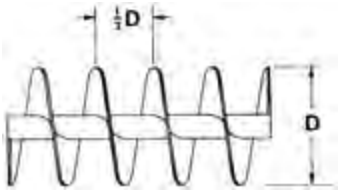
Flight pitch is reduced to 2/3 diameter. Recommended for inclined or vertical applications. Used in screw feeders. Shorter pitch reduces flushing of materials which fluidize.

SINGLE CUT-FLIGHT, STANDARD PITCH



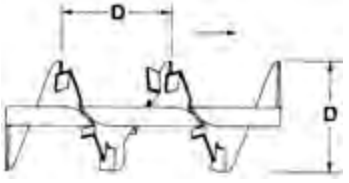
Screws are notched at regular intervals at outer edge. Affords mixing action and agitation of material in transit. Useful for moving materials which tend to pack.

HALF PITCH, SINGLE FLIGHT



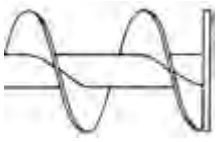
Similar to short pitch except pitch is reduced to 1/2 standard pitch. Useful for inclined applications, for screw feeders and for handling extremely fluid materials.

CUT & FOLDED FLIGHT, STANDARD PITCH



Folded flight segments lift and spill the material. Partially retarded flow provides thorough mixing action. Excellent for heating, cooling or aerating light substances.

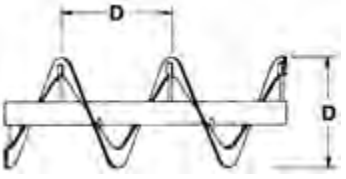
END DISC ON CONVEYOR SCREW



Price on Application

An end disc is the same diameter as the screw and is welded flush with the end of the pipe shaft at its discharge end and, of course, rotates with the screw. The end disc helps to keep discharging material away from the trough end seal.

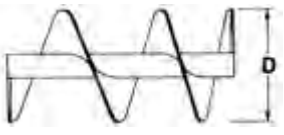
SINGLE FLIGHT RIBBON



Price on Application

Excellent for conveying sticky or viscous materials. Open space between flighting and pipe eliminate collection and build-up of material.

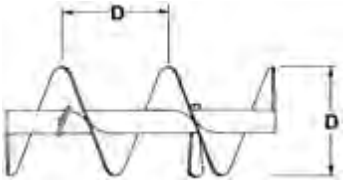
VARIABLE PITCH, SINGLE FLIGHT



Price on Application

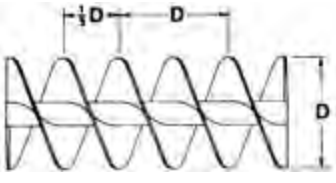
Flights have increasing pitch and are used in screw feeders to provide uniform withdrawal of fine, free flowing materials over the full length of the inlet opening.

STANDARD PITCH WITH PADDLES



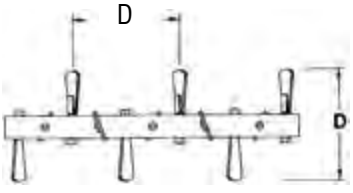
Adjustable paddles positioned between screw flights opposed flow to provide gentle but thorough mixing action.

DOUBLE FLIGHT, STANDARD PITCH



Double flight, standard pitch screws provide smooth regular material flow and uniform movement of certain types or materials.

PADDLE

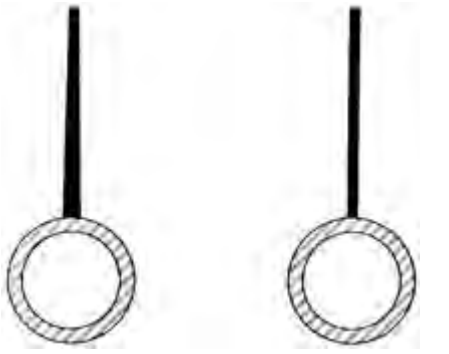


Adjustable paddles provide complete mixing action, and controlled material flow.

Conveyor Screws

Helicoid flights are formed in a special rolling machine by forming a steel strip into a continuous one-piece helix of the desired diameter, pitch and thickness to fit conveyor screw pipes. The helicoid flight is tapered in cross section, with the thickness at the inner edge approximately twice the thickness of the outer edge.

Sectional flights are individual flights or turns blanked from steel plates and formed into a spiral or helix of the desired diameter and pitch to fit conveyor screw pipes. The flights are butt welded together to form a continuous conveyor screw. Modifications can be furnished, such as, fabrication from various metals, different flight thicknesses, other diameters and pitches. The buttweld flight is the same thickness in the full cross section.



Helicoid Flight **Sectional Flight**

Key to Conveyor Size Designation

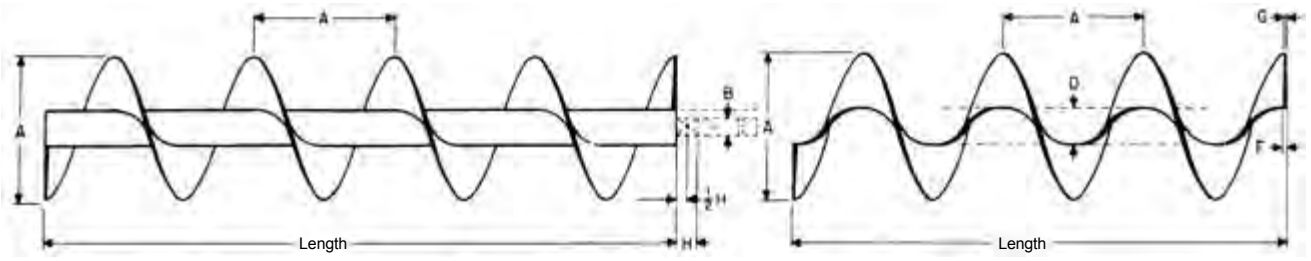
The letter “H” indicates screw conveyor with helicoid flighting. The figures to the left of the letters indicate the nominal outside diameter of the conveyor in inches. The first figure following the letters is twice the diameter of the couplings in inches. The last two figures indicate the nominal thickness of flighting at the outer edge in 1/64". Thus conveyor 12H408 indicates 12" diameter helicoid conveyor for 2" couplings with flighting 8/64" or 1/8" thickness at outer edge. Hand of conveyor is indicated by “R” or “L” following the designation.

Comparison Table • helicoid flight and sectional flight conveyor screws

Screw Diameter, Inches	Helicoid Flight						Sectional Flight			
	Conveyor Screw Size Designation ▲	Former Designation	Coupling Diameter, Inches	Nominal Inside Diameter of Pipe, Inches	Thickness of Flight, Inches		Conveyor Screw Size Designation ▲	Coupling Diameter, Inches	Nominal Inside Diameter of Pipe, Inches	Thickness of Flight
					Inner Edge	Outer Edge				
4	4H206	4X	1	1 3/8	3/16	3/32				
6	6H304	6 Standard	1 1/2	2	1/8	1/16				
	6H308	6 X	1 1/2	2	1/4	1/8	6S309	1 1/2	2	10 ga.
	6H312	6 XX	1 1/2	2	3/8	3/16	6S312	1 1/2	2	3/16 in.
9	9H306	9 Standard	1 1/2	2	3/16	3/32	9S307	1 1/2	2	12 ga.
	9H406	9 Special	2	2 1/2	3/16	3/32	9S407	2	2 1/2	12 ga.
	9H312	9 X	1 1/2	2	3/8	3/16	9S312	1 1/2	2	3/16 in.
	9H412	9 XX	2	2 1/2	3/8	3/16	9S412	2	2 1/2	3/16 in.
	9H414	—	2	2 1/2	7/16	7/32	9S416	2	2 1/2	1/4 in.
10	10H306	10 Standard	1 1/2	2	3/16	3/32	10S309	1 1/2	2	10 ga.
	10H412	10 XX	2	2 1/2	3/8	3/16	10S412	2	2 1/2	3/16 in.
12	12H408	12 Standard	2	2 1/2	1/4	1/8	12S409	2	2 1/2	10 ga.
	12H508	12 Special	2 7/16	3	1/4	1/8	12S509	2 7/16	3	10 ga.
	12H412	12 X	2	2 1/2	3/8	3/16	12S412	2	2 1/2	3/16 in.
	12H512	12 XX	2 7/16	3	3/8	3/16	12S512	2 7/16	3	3/16 in.
	12H614	—	3	3 1/2	7/16	7/32	12S616	3	3 1/2	1/4 in.
14	14H508	14 Standard	2 7/16	3	1/4	1/8	14S509	2 7/16	3	10 ga.
	14H614	14 XX	3	3 1/2	7/16	7/32	14S616	3	3 1/2	1/4 in.
16	16H610	16 Standard	3	3 1/2	5/16	5/32	16S609	3	3 1/2	10 ga.
	16H614	—	3	4	7/16	7/32	16S616	3	3 1/2	1/4 in.

▲ Size designation: Examples: 12H412 and 12S412.
12 = screw diameter in inches
H = helicoid flight
S = sectional flight
4 = 2 times 2" coupling diameter
12 = thickness of flight at periphery in increments of 1/64"

Conveyor Screws (Helicoid)



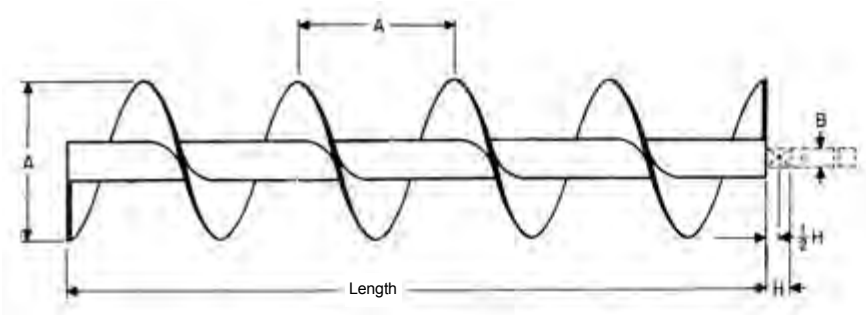
Helicoid Conveyor Screw **Flighting**

A	B	Size Part No. Conveyor Mounted	Size Part No. Flighting Only	D Pipe Size		Flight Thickness		H	Standard Length Feet-Inches	Average Weight			
										Complete Screw		Flighting Only	
Screw Diameter	Coupling Diameter			Nominal Inside	Outside	F	G	Coupling Bearing Length		Standard Length	Per Foot	Standard Length	Per Foot
						Inside	Outside						
4	1	4H206–*	4HF206–*	1⅜	1⅝	3/16	3/32	1½	9-10½	40	4	16	1.3
6	1½	6H304–*	6HF304–*	2	2⅜	⅛	1/16	2	9-10	52	5	14	1.4
	1½	6H308–*	6HF308–*	2	2⅜	¼	⅛	2	9-10	62	6	28	2.8
	1½	6H312–*	6HF312–*	2	2⅜	⅜	3/16	2	9-10	72	7	42	4.3
9	1½	9H306–*	9HF306–*	2	2⅜	3/16	3/32	2	9-10	70	7	31	3.2
	1½	9H312–*	9HF312–*	2	2⅜	⅜	3/16	2	9-10	101	10	65	6.1
	2	9H406–*	9HF406–*	2½	2⅞	3/16	3/32	2	9-10	91	9	30	3.0
	2	9H412–*	9HF412–*	2½	2⅞	⅜	3/16	2	9-10	121	12	60	6.6
	2	9H414–*	9HF414–*	2½	2⅞	7/16	7/32	2	9-10	131	13	70	6.3
10	1½	10H306–*	10HF306–*	2	2⅜	3/16	3/32	2	9-10	81	8	48	4.9
	2	10H412–*	10HF412–*	2½	2⅞	⅜	3/16	2	9-10	130	13	76	7.7
12	2	12H408–*	12HF408–*	2½	2⅞	¼	⅛	2	11-10	140	12	67	5.7
	2	12H412–*	12HF412–*	2½	2⅞	⅜	3/16	2	11-10	180	15	102	8.6
	2 7/16	12H508–*	12HF508–*	3	3½	¼	⅛	3	11-9	168	14	64	5.4
	2 7/16	12H512–*	12HF512–*	3	3½	⅜	3/16	3	11-9	198	17	96	8.2
	3	12H614–*	12HF614–*	3½	4	7/16	7/32	3	11-9	220	18	112	9.3
14	2 7/16	14H508–*	14HF508–*	3	3½	¼	⅛	3	11-9	170	14	84	7.1
	3	14H614–*	14HF614–*	3½	4	7/16	7/32	3	11-9	254	22	132	11.2
16	3	16H610–*	16HF610–*	3½	4	5/16	5/32	3	11-9	228	19	120	10.0
▲	3	16H614–*	16HF614–*	4	4½	7/16	7/32	3	11-9	285	24	154	11.7
18 ▲	3	18H610–*	18HF610–*	3½	4	5/16	5/32	3	11-9	282	24	167	13.9

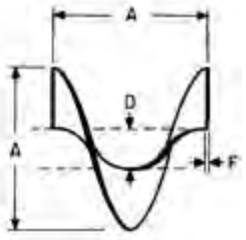
–* R For Right Hand
–* L For Left Hand

▲ Offered only in full pitch helicoid flighting.

Conveyor Screws (Sectional)



Sectional Conveyor Screw

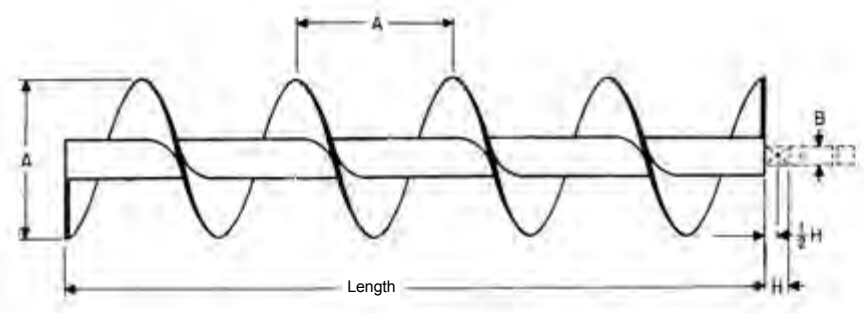


Flight

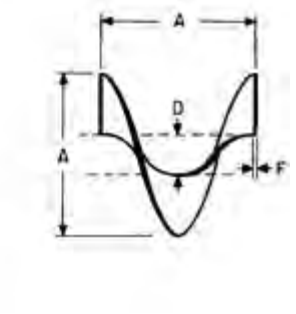
A	B	Size Part No. Mounted Conveyor	Size Part No. Flighting Only	Pipe Size		F	H	Standard Length Feet-Inches	Average Weight			Approx. Flights Per Foot
Screw Diameter	---Coupling Diameter			Nominal Inside	D Outside	Flight Thickness	Coupling Bearing Length		Standard Length	Per Foot	Flight Each	
6	1½	6S312–*	6SF312–*	2	2⅜	3/16	2	9-10	75	7.5	1.7	2.0
	1½	6S316–*	6SF316–*	2	2⅜	¼	2	9-10	90	8.0	2.2	2.0
9	1½	9S312–*	9SF312–*	2	2⅜	3/16	2	9-10	95	9.5	4.3	1.33
	1½	9S316–*	9SF316–*	2	2⅜	¼	2	9-10	130	13.0	5.5	1.33
	1½	9S324–*	9SF324–*	2	2⅜	⅜	2	9-10	160	16.0	7.9	1.33
	2	9S412–*	9SF412–*	2½	2⅞	3/16	2	9-10	115	11.5	4.3	1.33
	2	9S416–*	9SF416–*	2½	2⅞	¼	2	9-10	130	13.0	5.5	1.33
	2	9S424–*	9SF424–*	2½	2⅞	⅜	2	9-10	160	16.0	7.9	1.33
10	1½	10S312–*	10SF312–*	2	2⅜	3/16	2	9-10	120	12.0	5.0	1.2
	1½	10S316–*	10SF316–*	2	2⅜	¼	2	9-10	135	13.5	6.7	1.2
	1½	10S324–*	10SF324–*	2	2⅜	⅜	2	9-10	165	16.5	8.7	1.2
	2	10S412–*	10SF412–*	2½	2⅞	3/16	2	9-10	120	12.0	5.0	1.2
	2	10S416–*	10SF416–*	2½	2⅞	¼	2	9-10	135	13.5	6.7	1.2
	2	10S424–*	10SF424–*	2½	2⅞	⅜	2	9-10	165	16.5	8.7	1.2
12	2	12S412–*	12SF412–*	2½	2⅞	3/16	2	11-10	156	13.0	7.2	1.0
	2	12S416–*	12SF416–*	2½	2⅞	¼	2	11-10	204	17.0	9.7	1.0
	2	12S424–*	12SF424–*	2½	2⅞	⅜	2	11-10	268	22.3	12.7	1.0
	2 7/16	12S509–*	12SF509–*	3	3½	10 Ga.	3	11-9	160	14.0	5.7	1.0
	2 7/16	12S512–*	12SF512–*	3	3½	3/16	3	11-9	178	14.8	7.2	1.0
	2 7/16	12S516–*	12SF516–*	3	3½	¼	3	11-9	210	17.5	9.7	1.0
	2 7/16	12S524–*	12SF524–*	3	3½	⅜	3	11-9	274	22.5	12.7	1.0
	3	12S612–*	12SF612–*	3½	4	3/16	3	11-9	198	16.5	7.2	1.0
	3	12S616–*	12SF616–*	3½	4	¼	3	11-9	216	18.0	9.7	1.0
	3	12S624–*	12SF624–*	3½	4	⅜	3	11-9	280	24.0	12.7	1.0

–* R For Right Hand
–* L For Left Hand

Conveyor Screws (Sectional)



Sectional Conveyor Screw



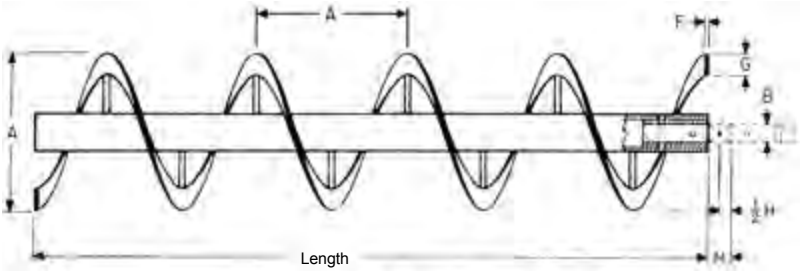
Flight

A	B	Size Part No. Mounted Conveyor	Size Part No. Flighting Only	Pipe Size		F	H	Standard Length Feet-Inches	Average Weight			Approx. Flights Per Foot
Screw Diameter	Coupling Diameter			Inside	D Outside	Flight Thickness	Coupling Bearing Length		Standard Length	Per Foot	Flight Each	
14	2 7/16	14S512–*	14SF512–*	3	3½	3/16	3	11-9	214	18.0	9.9	.86
	2 7/16	14S516–*	14SF516–*	3	3½	¼	3	11-9	240	20.0	13.2	.86
	2 7/16	14S524–*	14SF524–*	3	3½	⅜	3	11-9	330	27.5	19.8	.86
	3	14S612–*	14SF612–*	3½	4	3/16	3	11-9	222	19.0	9.9	.86
	3	14S616–*	14SF616–*	3½	4	¼	3	11-9	246	21.0	13.2	.86
	3	14S624–*	14SF624–*	3½	4	⅜	3	11-9	342	29.0	19.8	.86
16	3	16S612–*	16SF612–*	3½	4	3/16	3	11-9	234	20.0	14.0	.75
	3	16S616–*	16SF616–*	3½	4	¼	3	11-9	282	24.0	18.0	.75
	3	16S624–*	16SF624–*	3½	4	⅜	3	11-9	365	31.0	25.5	.75
	3	16S632–*	16SF632–*	3½	4	½	3	11-9	402	33.5	36.0	.75
18	3	18S612–*	18SF612–*	3½	4	3/16	3	11-9	246	21.0	18.0	.67
	3	18S616–*	18SF616–*	3½	4	¼	3	11-9	294	25.0	24.0	.67
	3	18S624–*	18SF624–*	3½	4	⅜	3	11-9	425	36.0	34.5	.67
	3	18S632–*	18SF632–*	3½	4	½	3	11-9	530	44.0	46.0	.67
	3 7/16	18S712–*	18SF712–*	4	4½	3/16	4	11-8	293	24.4	18.0	.67
	3 7/16	18S716–*	18SF716–*	4	4½	¼	4	11-8	345	28.8	24.0	.67
	3 7/16	18S724–*	18SF724–*	4	4½	⅜	4	11-8	470	39.2	34.5	.67
	3 7/16	18S732–*	18SF732–*	4	4½	½	4	11-8	570	47.5	46.0	.67
20	3	20S612–*	20SF612–*	3½	4	3/16	3	11-9	300	26.0	20.0	.60
	3	20S616–*	20SF616–*	3½	4	¼	3	11-9	360	31.0	28.0	.60
	3	20S624–*	20SF624–*	3½	4	⅜	3	11-9	410	33.4	40.0	.60
	3	20S632–*	20SF632–*	3½	4	½	3	11-9	506	42.2	56.0	.60
	3 7/16	20S712–*	20SF712–*	4	4½	3/16	4	11-8	310	27.0	20.0	.60
	3 7/16	20S716–*	20SF716–*	4	4½	¼	4	11-8	370	32.0	28.0	.60
	3 7/16	20S724–*	20SF724–*	4	4½	⅜	4	11-8	475	40.0	40.0	.60
	3 7/16	20S732–*	20SF732–*	4	4½	½	4	11-8	525	45.0	56.0	.60
24	3 7/16	24S712–*	24SF712–*	4	4½	3/16	4	11-8	440	37.0	32.0	.50
	3 7/16	24S716–*	24SF716–*	4	4½	¼	4	11-8	510	43.0	42.0	.50
	3 7/16	24S724–*	24SF724–*	4	4½	⅜	4	11-8	595	50.0	63.0	.50
	3 7/16	24S732–*	24SF732–*	4	4½	½	4	11-8	690	60.0	84.0	.50

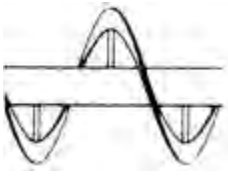
–* R For Right Hand
–* L For Left Hand

Conveyor Screws (Ribbon)

Ribbon flight conveyor screws consist of sectional flights, buttwelded together to form a continuous helix. Flights are secured to the pipe by supporting legs. Both ends of the pipe are prepared with internal collars and drilling to accept couplings, drive shafts, and end shafts. They are used to convey sticky, gummy, or viscous substances, or where the material tends to adhere to flighting and pipe.

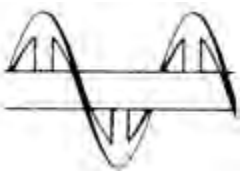


Ribbon Conveyor Screw



Post

Integral (Int) Leg

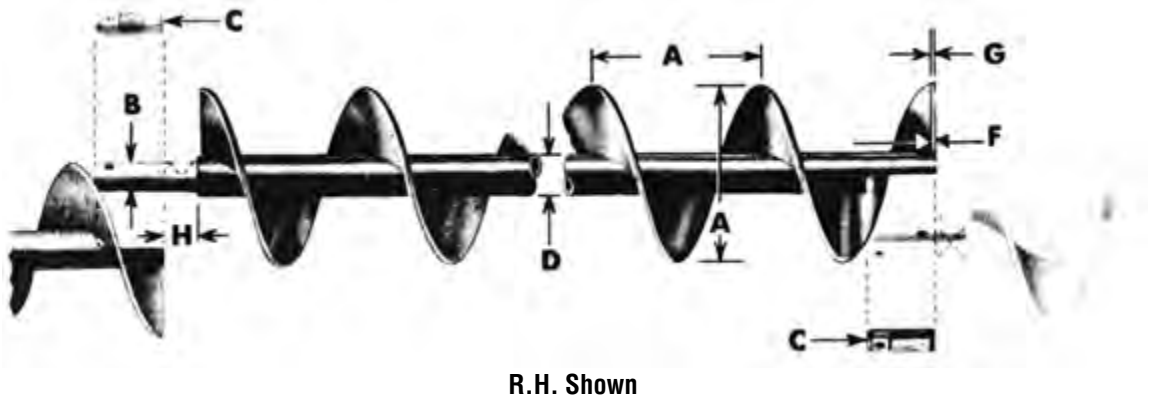


A Screw Diameter	B Coupling Diameter	Size Part No. Mounted Conveyor	Pipe Size		Flight Size		H Coupling Bearing Length	Standard Length Feet-Inches	Weight	
									Complete Screw	
			Inside	Outside	F Thickness	G Width			Standard Length	Per Foot
6	1½	6R312–*	2	2⅜	3/16	1	2	9-10	65	6.5
9	1½	9R316–*	2	2⅜	¼	1½	2	9-10	100	10
10	1½	10R316–*	2	2⅜	¼	1½	2	9-10	110	11
12	2	12R416–*	2½	2⅞	¼	2	2	11-10	180	15
	2	12R424–*	2½	2⅞	⅜	2½	2	11-10	216	19
	2 7/16	12R524–*	3	3½	⅜	2½	3	11-9	240	21
14	2 7/16	14R516–*	3	3½	¼	2½	3	11-9	228	19
	2 7/16	14R524–*	3	3½	⅜	2½	3	11-9	264	22
	3	14R624–*	3½	4	⅜	2½	3	11-9	288	25
16	3	16R616–*	3½	4	¼	2½	3	11-9	276	24
	3	16R624–*	3½	4	⅜	2½	3	11-9	324	28
18	3	18R624–*	3½	4	⅜	3	3	11-9	384	33
20	3 7/16	20R724–*	4	4½	⅜	3	4	11-8	408	35
24	3 7/16	24R724–*	4	4½	⅜	3	4	11-8	424	36

–* R For Right Hand
–* L For Left Hand

Quick Detachable (QD) Helicoid Conveyor

Q.D. — Quick Detachable conveyor screws are designed for convenient removal from the conveyor assembly. Each section of screw has a Q.D. cap at one end of the pipe. By removing this cap, a conveyor screw section can quickly and easily be removed and returned to the conveyor assembly without disturbing the other screw sections. Quick Detachable conveyor can be furnished both in helicoid and buttweld construction.

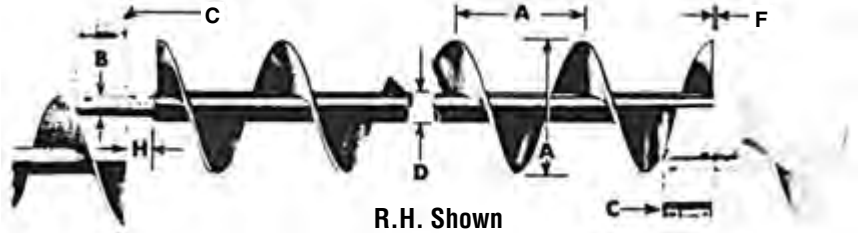


R.H. Shown

A	Size Part No. Mounted Conveyor	B	Standard-Length Feet-Inches	C	D Pipe Size		Flight Thickness Ft.-In.		H	Average Weight	
Nominal Conveyor Diameter		Coupling Diameter	End to End of Pipe	Cap Part Number	Inside	Outside	F Inside	G Outside	Coupling Bearing Length	Standard Length	Per Foot
6	6HQ304–*	1½	9-10	3QDC2	2	2⅜	⅛	1/16	2	52	5
	6HQ308–*						¼	⅛	2	62	6
	6HQ312–*						⅜	3/16	2	72	7
9	9HQ306–*	1½	9-10	3QDC2	2	2⅜	3/16	3/32	2	70	7
	9HQ312–*						⅜	3/16	2	101	10
	9HQ406–*	2	9-10				3/16	3/32	2	91	9
	9HQ412–*			4QDC25	2½	2⅞	⅜	3/16	2	121	12
	9HQ414–*						7/16	7/32	2	131	13
10	10HQ306–*	1½	9-10	3QDC2	2	2⅜	3/16	3/32	2	81	8
	10HQ412–*	2	9-10	4QDC25	2½	2⅞	⅜	3/16	2	130	13
12	12HQ408–*	2	11-10	4QDC25	2½	2⅞	¼	⅛	2	140	12
	12HQ412–*						⅜	3/16	2	180	15
	12HQ508–*	2 7/16	11-9	5QDC3	3	3½	¼	⅛	3	168	14
	12HQ512–*						⅜	3/16	3	198	17
	12HQ614–*	3	11-9	6QDC35	3½	4	7/16	7/32	3	220	18
14	14HQ508–*	2 7/16	11-9	5QDC3	3	3½	¼	⅛	3	170	14
	14HQ614–*	3	11-9	6QDC35	3½	4	7/16	7/32	3	254	22
16	16HQ610–*	3	11-9	6QDC35	3½	4	5/16	5/32	3	228	19
	16HQ614–*	3	11-9	6QDC4	4	4½	7/16	7/32	3	285	23.8

Note: Q.D. caps are not recommended on the drive shaft end.
–* R For Right Hand
–* L For Left Hand

Quick Detachable (QD) Sectional Spiral Conveyors



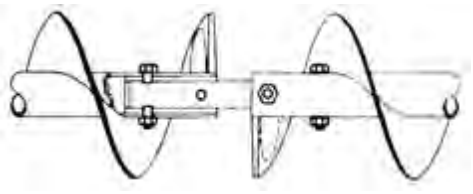
R.H. Shown

A	Size Part No. Mounted Conveyor	B	Standard Length Feet-Inches	C	D		F	H	Average Weight	
Nominal Conveyor Diameter		Coupling Diameter	End to End of Pipe	Cap Part Number	Pipe Size Inside	Pipe Size Outside	Flight Thickness	Coupling Bearing Length	Standard Length	Per Foot
6	6SQ307–* 6SQ309–* 6SQ312–* 6SQ316–*	1½	9-10	3QDC2	2	2⅜	12 10 3/16 ¼	2 2 	62 65 75 90	6.2 6.5 7.5 8.0
9	9SQ307–* 9SQ309–* 9SQ312–* 9SQ316–*	1½	9-10	3QDC2	2	2⅜	12 10 3/16 ¼	 2 	73 80 95 120	7.3 8.0 9.5 13
	9SQ407–* 9SQ409–* 9SQ412–* 9SQ416–* 9SQ424–*	2	9-10	4QDC25	2½	2⅞	12 10 3/16 ¼ ⅜	 2 	90 100 115 130 160	9 10 11.5 13.0 16
10	10SQ309–*	1½	9-10	3QDC2	2	2⅜	10	2	85	8.5
	10SQ412–* 10SQ416–*	2	9-10	4QDC25	2½	2⅞	3/16 ¼	2 	120 135	12.0 13.5
12	12SQ409–* 12SQ412–* 12SQ416–*	2	11-10	4QDC25	2½	2⅞	10 3/16 ¼	2 	140 156 204	12.0 13.0 17
	12SQ509–* 12SQ512–*	2 7/16	11-9	5QDC3	3	3½	10 3/16	3 	160 178	14 15
	12SQ612–* 12SQ616–* 12SQ624–*	3	11-9	6QDC35	3½	4	3/16 ¼ ⅜	 3 	191 216 280	16.5 18.0 24
14	14SQ509–* 14SQ512–*	2 7/16	11-9	5QDC3	3	3½	10 3/16	3 	185 214	16 18
	14SQ612–* 14SQ616–* 14SQ624–*	3	11-9	6QDC35	3½	4	3/16 ¼ ⅜	3 	222 246 342	19 21 29
16	16SQ609–* 16SQ612–* 16SQ616–* 16SQ624–*	3	11-9	6QDC35	3½	4	10 3/16 ¼ ⅜	3 	210 234 282 365	18 20 24 31
18	18SQ612–* 18SQ616–* 18SQ624–*	3	11-9	6QDC35	3½	4	3/16 ¼ ⅜	3 	246 294 425	21 25 36
20	20SQ612–* 20SQ616–*	3	11-9	6QDC35	3½	4	3/16 ¼	3 	300 360	26 31
	20SQ724–*	3 7/16	11-8	7QDC4	4	4½	⅜	4	475	40
24	24SQ712–* 24SQ716–* 24SQ724–*	3 7/16	11-8	7QDC4	4	4½	3/16 ¼ ⅜	4 	410 510 595	37 43 50

–* R For Right Hand
–* L For Left Hand

Conveyor Screw (Components)

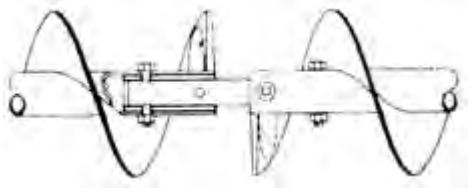
Coupling Bolts



Conveyor coupling bolts are manufactured from special analysis high-torque steel. Close tolerance for a minimum of wear. Lock nuts are furnished with each bolt.

Coupling Diameter	Outside Pipe Diameter	Bolt Size	Part Number Standard	Weight Each Lbs.
1	1⅝	⅜ × 2 1/16	CCB2	.13
1½	2⅜	½ × 3	CCB3	.2
2	2⅞	⅝ × 3⅜	CCB4	.45
2 1/16	3½	⅝ × 4⅜	CCB5	.5
3	4	¾ × 5	CCB6	.85
3	4½	¾ × 5½	CCB6A	.9
3 1/16	4½	⅞ × 5½	CCB7	1.29

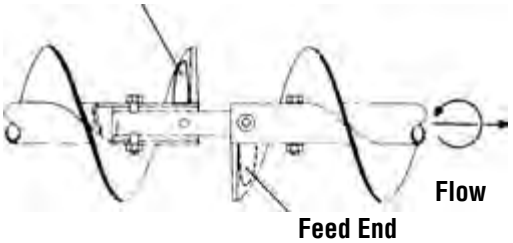
Internal Collar



Internal collars are made from seamless tubing machined for a press fit in the conveyor pipe. When installed at the factory collars are jig drilled and plug welded into the pipe. No drilling in replacement collars is furnished allowing for field drilling to match existing bolt holes.

Coupling Diameter	Inside Pipe Diameter	Part Number Standard	Weight Each Lbs.
1	1¼	CIC2	.58
1½	2	CIC3	2.06
2	2½	CIC4	2.16
2 1/16	3	CIC5	3.72
3	3½	CIC6	4.03
3	4	CIC6A	8.03
3 1/16	4	CIC7	6.52

Discharge End — End Lugs



End lugs are welded opposite the carrying side of the conveyor flight and provide maximum support with minimum obstruction of material flow.

Conveyor Diameter	Part Number		Weight Each Lbs.
	Intake End Standard	Discharge End Standard	
6	6CELI–*	6CELD–*	.06
9	9CELI–*	9CELD–*	.15
10	9CELI–*	9CELD–*	.15
12	12CELI–*	12CELD–*	.2
14	12CELI–*	12CELD–*	.2
16	16CELI–*	16CELD–*	.4
18	16CELI–*	16CELD–*	.4
20	16CELI–*	16CELD–*	.4
24	16CELI–*	16CELD–*	.4

–* R For Right Hand Flight
–* L For Left Hand Flight

Shaft

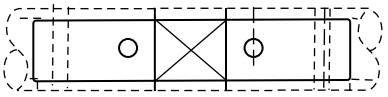
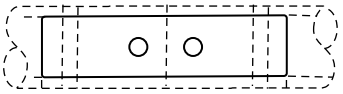
Coupling Shafts

CC	5

Coupling Part
CC — Coupling Shaft Std.*
CCC — Close Coupling Shaft
CHE — Hanger End Shaft*

Coupling Diameter
2 — 1"
3 — 1-1/2"
4 — 2"
5 — 2-7/16"
6 — 3"
7 —3-7/16"

* Add suffix H if Hardened

COUPLING		Conveyor couplings are used to join individual lengths of conveyor screws and allow for rotation within the hanger bearing. C-1045 steel couplings are normally furnished; however couplings with hardened bearing surfaces may be furnished where highly abrasive materials are being conveyed. Jig drilling allows for ease of installation.
CLOSE		Close couplings are used to adjoin conveyor screws where no hanger is required. Jig drilling allows for ease of installation.

Drive & End Shafts

1	CD	5	BB	W

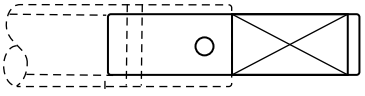
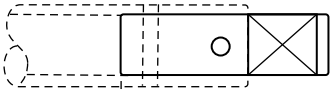
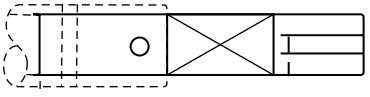
Drive Shaft Number
1 — #1 Drive Shaft Only
2 — #2 Single Bearing Pedestal
3 — #3 Double Bearing Pedestal

Type
CD — Drive Shaft
CE — End Shaft

Coupling Diameter
2 — 1"
3 — 1-1/2"
4 — 2"
5 — 2-7/16"
6 — 3"
7 — 3-7/16"

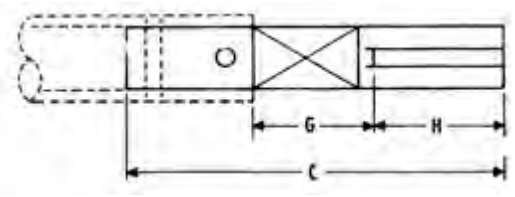
Bearing Type
BB — Ball
RB — Roller

Seal Type
(Delete if without seal)
P — Plate
W — Waste Pack

END		End shafts serve only to support the end conveyor section and are therefore usually supplied in cold rolled steel. End shafts are jig drilled for ease of assembly and close diametral tolerances are held for proper bearing operation.
HANGER END		Hanger end shafts are designed to connect only one conveyor section to a hanger bearing. These shafts may also be used in pairs to divide an excessively long conveyor assembly between two drives.
#1 DRIVE		No. 1 drive shafts are normally used where standard end plates are furnished. Jig drilling allows for ease of installation.
SPECIAL DRIVE		Length, bearing location, seals and keyway location and size as required.

No. 1 Drive Shaft

No. 1 drive shafts are normally used where standard end plates are furnished. Jig drilling allows for ease of installation.



No. 1 Drive Shaft Used Without Seal*

Bronze Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B	9½	3½	3	2.0
1½	1CD3B	12¾	4¾	3¼	6.3
2	1CD4B	15	5¾	4½	13.3
2 7/16	1CD5B	17⅞	7	5½	21.0
3	1CD6B	19⅛	8⅛	6	37.0
3 3/16	1CD7B	23	9	7¼	60.4

Ball Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2BB	9	3	3	1.8
1½	1CD3BB	11½	3½	3¼	5.6
2	1CD4BB	13⅛	3⅞	4½	11.5
2 7/16	1CD5BB	15⅛	4¾	5½	18.0
3	1CD6BB	16⅝	5⅝	6	32.0
3 3/16	1CD7BB	20⅝	6⅝	7¼	52.5

**Consult Factory

No. 1 Drive Shaft Used With Plate or Product Drop Out Seals*

Bronze Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B-P	10	4	3	2.1
1½	1CD3B-P	13¼	5¼	3¼	6.6
2	1CD4B-P	15¼	6¼	4½	14.1
2 7/16	1CD5B-P	18⅜	8	5½	24.3
3	1CD6B-P	19⅝	8⅝	6	38.0
3 3/16	1CD7B-P	24⅛	10⅛	7¼	61.0

Ball Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2BB-P	9½	3½	3	2.0
1½	1CD3BB-P	12⅜	4⅜	3¼	6.2
2	1CD4BB-P	14	4¾	4½	12.5
2 7/16	1CD5BB-P	15⅞	5½	5½	21
3	1CD6BB-P	17½	6½	6	35
3 3/16	1CD7BB-P	21½	7½	7¼	56.5

**Consult Factory

No. 1 Drive Shaft Used With Waste Pack Seal*

Bronze Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B-W	11	4¼	3	2.2
1½	1CD3B-W	14½	6½	3¼	7.2
2	1CD4B-W	16¾	7¼	4½	14.9
2 7/16	1CD5B-W	19⅛	8¾	5½	23.3
3	1CD6B-W	20⅞	9⅛	6	40.5
3 3/16	1CD7B-W	25⅞	11⅛	7¼	66.3

Ball Bearing

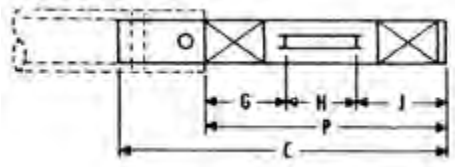
Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2BB-W	10½	3¾	3	2.0
1½	1CD3BB-W	13¼	5¼	3¼	6.4
2	1CD4BB-W	14⅞	5⅝	4½	13.0
2 7/16	1CD5BB-W	16⅞	6½	5½	20.5
3	1CD6BB-W	18⅜	7⅜	6	35.5
3 3/16	1CD7BB-W	22⅞	8⅞	7¼	58.4

*Shaft length allows for ½ hanger bearing length as clearance between end plate and screw
**Consult Factory

No. 2 and No. 3 Drive Shafts

No. 2 Drive Shaft

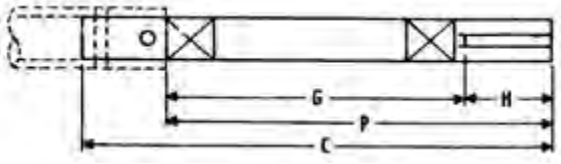
No. 2 drive shafts are used where pedestal type trough ends with single bearing are furnished. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	G	H	J	P	Weight
1	2CD2	11	3¼	2¼	2½	8	2.5
1½	2CD3	16½	5	3¼	3½	11¾	8.3
2	2CD4	18¾	5¼	4¼	4½	14	17.0
2 7/16	2CD5	21⅞	6	5½	5½	17	29.0
3	2CD6	23½	6½	5½	6½	18½	49.0
3 3/16	2CD7	27	6¾	6	7½	20¼	75.0

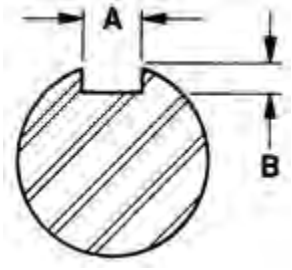
No. 3 Drive Shaft

No. 3 drive shafts are used where pedestal type trough ends with double bearings are furnished. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	G	H	P	Weight
1	3CD2	15½	9¼	3	12¼	3
1½	3CD3	20¼	12½	3¼	15¾	10
2	3CD4	22	12¾	4½	17¼	21
2 7/16	3CD5	24⅝	14¼	5½	19¾	36
3	3CD6	25⅞	14¾	6	20¾	62
3 3/16	3CD7	29⅞	15⅞	7¼	23⅛	95

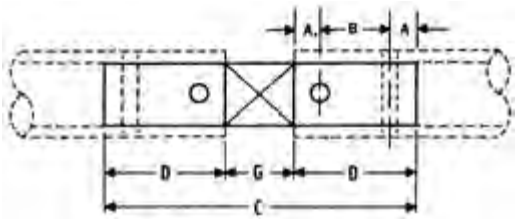
Drive Shaft Keyways



Shaft Diameter	A	B
1	¼	⅛
1½	⅜	3/16
2	½	¼
2 7/16	⅝	5/16
3	¾	⅜
3 3/16	⅞	7/16

Coupling

Conveyor couplings are used to join individual lengths of conveyor screws and allow for rotation within the hanger bearing. Mild steel couplings are normally furnished; however induction hardened bearing area couplings may be furnished where highly abrasive materials are being conveyed. Jig drilling allows for ease of installation.



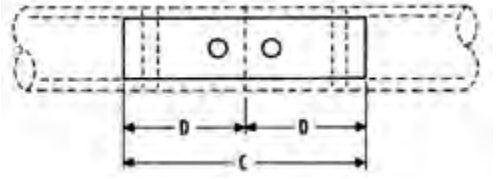
Shaft Diameter	Part Number*	A_1	A	B	C	D	G	Weight
1	CC2	½	½	2	7½	3	1½	1.5
1½	CC3	⅞	⅞	3	11½	4¾	2	5.6
2	CC4	⅞	⅞	3	11½	4¾	2	9.8
2 7/16	CC5	15/16	15/16	3	12¾	4⅞	3	15.4
3	CC6	1	1	3	13	5	3	23.8
3 7/16	CC7	1½	1¼	4	17½	6¾	4	44.5

*Add — H for Hardened Shaft.

Shaft is induction hardened in bearing area only to 40-50 RC.

Close Coupling

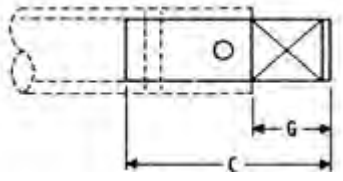
Close couplings are used to adjoin conveyor screws where no hanger is required. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	D	Weight
1	CCC2	6	3	1.3
1½	CCC3	9½	4¾	4.8
2	CCC4	9½	4¾	8.5
2 7/16	CCC5	9¾	4⅞	12.9
3	CCC6	10	5	20.0
3 7/16	CCC7	13½	6¾	37.0

Hanger End

Hanger end shafts are designed to connect only one conveyor section to a hanger bearing. These shafts may also be used in pairs to divide an excessively long conveyor assembly beween two drives.

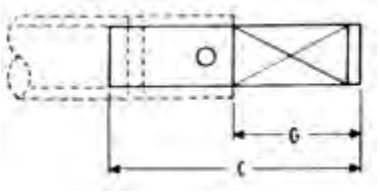


Shaft Diameter	Part Number*	C	G	Weight
1	CHE2	4⅝	1⅛	1.0
1½	CHE3	6⅞	2⅛	3.5
2	CHE4	6⅞	2⅛	6.2
2 7/16	CHE5	8⅛	3¼	10.6
3	CHE6	8¼	3¼	16.5
3 7/16	CHE7	11¼	4¼	29.7

*Add — H for Hardened Shaft
Shaft is induction hardened in bearing area only to 40-50 RC.

End Shaft

End shafts serve only to support the end conveyor section and are therefore usually supplied in cold rolled steel. End shafts are jig drilled for ease of assembly and close diametrical tolerances are held for proper bearing operation.



End Shaft Used Without Seal**

Bronze Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2B	6½	3½	1.4
1½	CE3B	9¼	4½	4.5
2	CE4B	10¼	5½	9.0
2 7/16	CE5B	11⅞	7	15.4
3	CE6B	13⅛	8⅛	25.6
3 7/16	CE7B	16⅜	9⅝	42.4

Ball Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2BB	6	3	1.2
1½	CE3BB	8¼	3½	3.8
2	CE4BB	8⅝	3⅞	7.5
2 7/16	CE5BB	9⅝	4¾	12.4
3	CE6BB	10⅝	5⅝	20.8
3 7/16	CE7BB	13⅜	6⅝	34.4

***Consult Factory

End Shaft Used With Plate or Product Drop Out Seal**

Bronze Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2B-P	7	4	1.5
1½	CE3B-P	10¼	5½	5.1
2	CE4B-P	11¼	6½	10.0
2 7/16	CE5B-P	12⅞	8	17.0
3	CE6B-P	13⅜	8⅝	29.8
3 7/16	CE7B-P	16⅞	10⅛	44.0

Ball Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2BB-P	6½	3½	1.4
1½	CE3BB-P	9	4¼	4.5
2	CE4BB-P	9⅜	4⅝	8.3
2 7/16	CE5BB-P	10⅛	5¼	13.1
3	CE6BB-P	11½	6½	23.0
3 7/16	CE7BB-P	14⅛	7⅜	37.1

***Consult Factory

End Shaft Used With Waste Pack Seal**

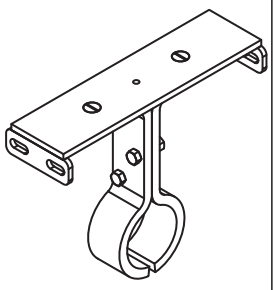
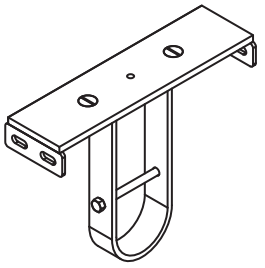
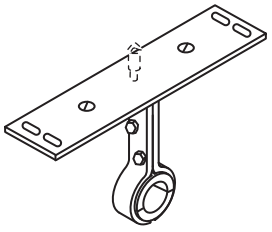
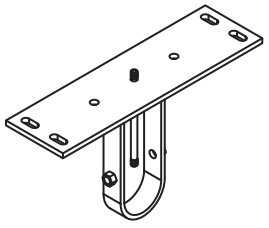
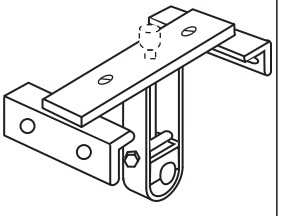
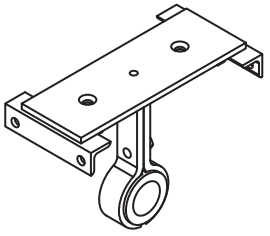
Bronze Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2B-W	8	5	1.6
1½	CE3B-W	11	6¼	5.2
2	CE4B-W	12	7¼	10.4
2 7/16	CE5B-W	13⅜	8¾	17.6
3	CE6B-W	14⅞	9⅛	28.2
3 7/16	CE7B-W	18⅝	11⅛	48.0

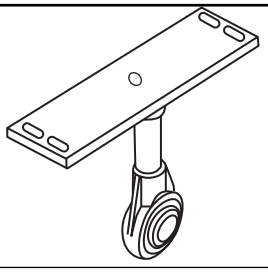
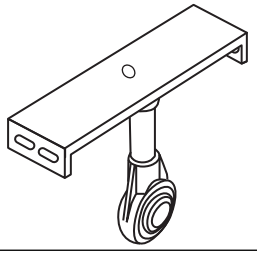
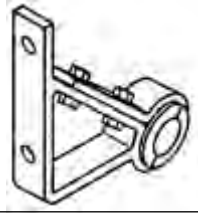
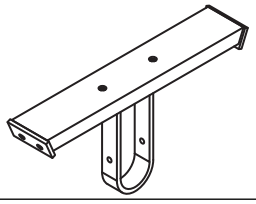
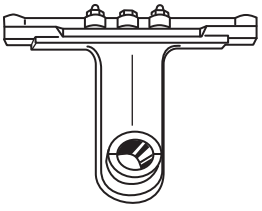
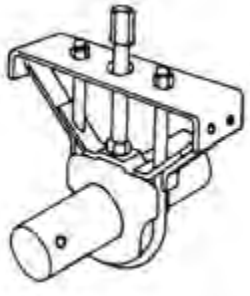
Ball Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2BB-W	7½	3¾	1.4
1½	CE3BB-W	10	5¼	4.8
2	CE4BB-W	10⅜	5⅝	9.0
2 7/16	CE5BB-W	11⅜	6½	14.8
3	CE6BB-W	12⅜	7⅜	24.0
3 7/16	CE7BB-W	15⅝	8⅛	40.2

*Add – H for Hardened Shaft.
**Shaft length allows for ½ hanger bearing length, clearance between end plate and screw.
***Consult Factory

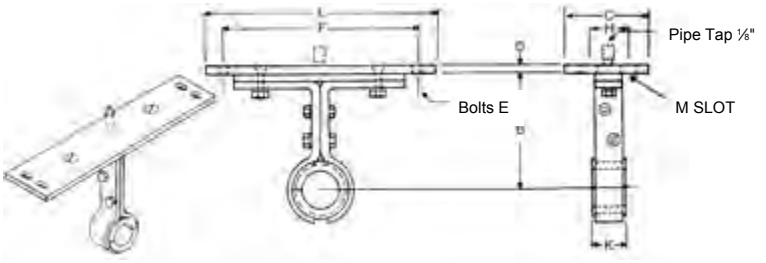
Style 226		No. 226 hangers are designed for flush mounting inside the trough permitting dust-tight or weather-proof operation. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Available with friction type bearing.
Style 216		No. 216 hangers are designed for heavy duty applications. This hanger is flush mounted inside the trough permitting dust tight or weather proof operation. Hard iron or bronze bearings are normally furnished; however, the hanger can be furnished with other bearings.
Style 220		No. 220 hangers are designed for mount on top of the trough flanges and may be used where dust-tight or weather proof operation is not required. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Available with friction type bearing.
Style 230		No. 230 hangers are designed for heavy duty applications where mounting on top of the trough flanges is required. Hard iron or bronze bearings are normally furnished; however, other bearings are available.
Style 316		No. 316 hangers are designed for heavy duty use in conveyors where abnormal heat requires unequal expansion between the screw and conveyor trough. Hard iron or bronze bearings are normally furnished; however, this hanger can be furnished with other bearings.
Style 326		No. 326 hangers are designed to permit minimum obstruction of material flow and are used in conveyors where abnormal heat requires unequal expansion between the screw and the conveyor trough. Hard iron or bronze bearings are normally furnished, but other type bearings are available.

Hangers

Style 60		No. 60 hangers are furnished with a heavy duty, permanently lubricated and sealed, self aligning ball bearing which permits temperatures up to 245° F. and will allow for up to 4° shaft misalignment. This hanger is mounted on top of the trough flanges. Grease fitting can be furnished if specified.
Style 70		No. 70 hangers are furnished with a heavy duty, permanently lubricated and sealed, self aligning ball bearing which permit temperatures up to 245° F. and will allow for up to 4° shaft misalignment. This hanger is mounted inside the trough. Grease fittings can be furnished if specified.
Style 30		No. 30 hangers are designed for side mounting within the conveyor trough on the noncarrying side and permit a minimum of obstruction of material flow. Available with friction type bearing.
Style 216F		No. 216F hangers are designed for heavy duty applications and are mounted inside of flared trough. Hard iron or bronze bearings are normally furnished; however, other bearings are available.
Style 19B		The No. 19B hanger is similar in construction to the No. 18B except they are mounted on top of the trough angles. Built-in ledges provide supports for the ends of the cover. They are streamline in design and permit free passage of the material. They are regularly furnished with Arguto oil impregnated wood, hard iron, bronze, or other special caps can be furnished.
Air Purged Hanger		Air purged hangers are recommended when handling dusty and abrasive materials which contribute to shutdowns and hanger bearing failures. Air-swept hangers are available for 9"-24" conveyors. They should not be used when handling hot materials (over 250° F) or wet sticky materials or when handling non abrasive materials when an inexpensive hanger will do the job satisfactorily. In service, air-purged hangers deliver relatively trouble-free operation. They help solve noise nuisance problems, and they help reduce power requirement because of the low coefficient of fraction. Maximum trough loading should not exceed 15%. The air, at approximately 1-1/4 PSI enters the housing at the top, passes over and around the bearing, and is dissipated around the coupling shaft on both sides of the housing. Thus the bearing is protected from dust and the material in the trough at all times. Only 3 to 7 cu. ft. of air per minute is required to keep each hanger bearing clean.

Style 220

No. 220 hangers are designed for mounting on top of the trough flanges and may be used where dust-tight or weather proof operation is not required. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Available with friction type bearing.

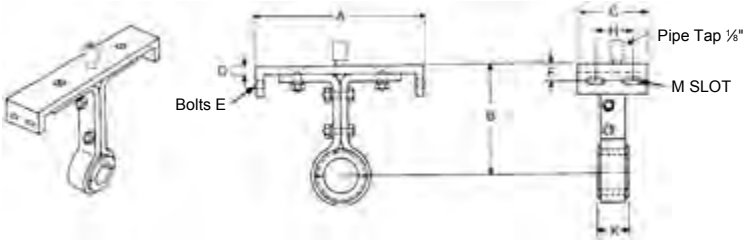


Conveyor Diameter	Coupling Size	Part Number*	B	C	D	E	F	H	K	L	M Slot	Weight Each
4	1	4CH2202	3⅝	3½	3/16	¼	6½	2	1½	7¼	5/16 × ¾	5
6	1½	6CH2203	4½	4½	3/16	⅜	8¾	2½	2	9¾	7/16 × 1 1/16	7
9	1½	9CH2203	6⅛	4½	¼	⅜	12¼	2½	2	13½	7/16 × 1 1/16	9
	2	9CH2204	6⅛	4½	¼	⅜	12¼	2½	2	13½		11
10	1½	10CH2203	6⅝	4½	¼	⅜	13¼	2½	2	14½	7/16 × 1 1/16	10
	2	10CH2204	6⅝	4½	¼	⅜	13¼	2½	2	14½		12
12	2	12CH2204	7¾	5	⅜	½	15¾	2½	2	17½	9/16 × 1 5/16	16
	2 7/16	12CH2205	7¾	5	⅜	½	15¾	2½	3	17½		21
	3	12CH2206	7¾	5	⅜	½	15¾	2½	3	17½		28
14	2 7/16	14CH2205	9¼	5	½	½	17¾	2½	3	19½	9/16 × 1 5/16	26
	3	14CH2206	9¼	5	½	½	17¾	2½	3	19½		33
16	3	16CH2206	10⅝	5	½	½	19¾	2½	3	21½	9/16 × 1 5/16	39
18	3	18CH2206	12⅛	6	½	⅝	22¼	3½	3	24½	1/16 × 1 1 1/16	41
	3 7/16	18CH2207	12⅛	6	½	⅝	22¼	3½	4	24½		49
20	3	20CH2206	13½	6	½	⅝	24¼	3½	3	26½	1/16 × 1 1 1/16	43
	3 7/16	20CH2207	13½	6	½	⅝	24¼	3½	4	26½		51
24	3 7/16	24CH2207	16½	6	⅝	⅝	28¼	3½	4	30½	1/16 × 1 1 1/16	57

*Refer to Page H-99 for bearings
NOTE: For hangers with oil pipe add –0 to part number

Style 226

No. 226 hangers are designed for flush mounting inside the trough permitting dust-tight or weather-proof operation. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Also available with friction type bearing.

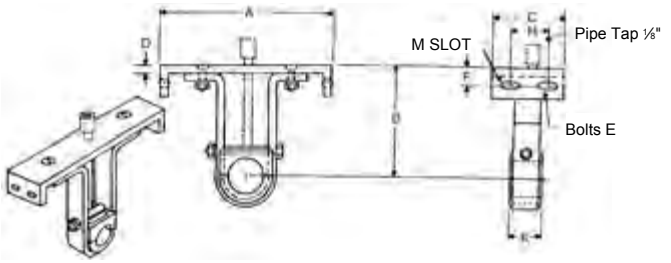


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	K	M Slot	Weight Each
4	1	4CH2262	5	3⅝	3½	3/16	¼	⅝	2	1½	5/16 × 5/16	5
6	1½	6CH2263	7	4½	4½	3/16	⅜	¾	2½	2	7/16 × 1 1/16	7
9	1½	9CH2263	10	6⅛	4½	¼	⅜	1	2½	2	7/16 × 1 1/16	9
	2	9CH2264	10	6⅛	4½	¼	⅜	1	2½	2		11
10	1½	10CH2263	11	6⅜	4½	¼	⅜	1	2½	2	7/16 × 1 1/16	10
	2	10CH2264	11	6⅜	4½	¼	⅜	1	2½	2		12
12	2	12CH2264	13	7¾	5	⅜	½	1¼	2½	2	9/16 × 1 5/16	16
	2 7/16	12CH2265	13	7¾	5	⅜	½	1¼	2½	3		21
	3	12CH2266	13	7¾	5	⅜	½	1¼	2½	3		28
14	2 7/16	14CH2265	15	9¼	5	½	½	1⅜	2½	3	9/16 × 1 5/16	26
	3	14CH2266	15	9¼	5	½	½	1⅜	2½	3		33
16	3	16CH2266	17	10⅝	5	½	½	1⅜	2½	3	9/16 × 1 5/16	39
18	3	18CH2266	19	12⅛	6	½	⅝	1½	3½	3	1/16 × 1 1 1/16	41
	3 7/16	18CH2267	19	12⅛	6	½	⅝	1⅝	3½	4		49
20	3	20CH2266	21	13½	6	½	⅝	1⅝	3½	3	1/16 × 1 1 1/16	43
	3 7/16	20CH2267	21	13½	6	½	⅝	1⅝	3½	4		51
24	3 7/16	24CH2267	25	16½	6	⅝	⅝	1¾	3½	4	1/16 × 1 1 1/16	57

*Refer to Page H-99 for bearings *For hangers with oil pipe add –0 to part number

Style 216

No. 216 hangers are designed for heavy duty applications. This hanger is flush mounted inside the trough permitting dust tight or weather proof operation. Hard iron or bronze bearings are normally furnished; however, the hanger can be furnished with other bearings.

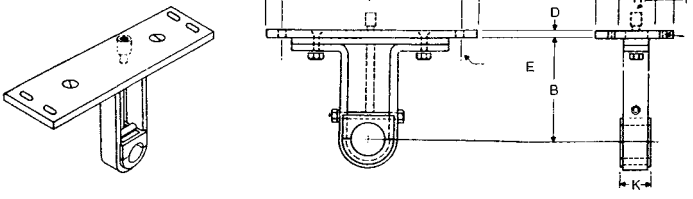


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	K	M Slot	Weight Each
6	1½	6CH2163	7	4½	4½	3/16	3/8	3/4	2½	2	7/16 × 1 1/16	5
9	1½	9CH2163	10	6⅛	4½	¼	3/8	1	2½	2	7/16 × 1 1/16	7
	2	9CH2164	10	6⅛	4½	¼	3/8	1	2½	2		9
10	1½	10CH2163	11	6⅜	4½	¼	3/8	1	2½	2	7/16 × 1 1/16	8
	2	10CH2164	11	6⅜	4½	¼	3/8	1	2½	2		10
12	2	12CH2164	13	7¾	5	3/8	½	1¼	2½	2	9/16 × 1 5/16	14
	2 7/16	12CH2165	13	7¾	5	3/8	½	1¼	2½	3		18
	3	12CH2166	13	7¾	5	3/8	½	1¼	2½	3		21
14	2 7/16	14CH2165	15	9¼	5	½	½	1⅜	2½	3	9/16 × 1 5/16	23
	3	14CH2166	15	9¼	5	½	½	1⅜	2½	3		25
16	3	16CH2166	17	10⅝	5	½	½	1⅜	2½	3	9/16 × 1 5/16	28
18	3	18CH2166	19	12⅛	6	½	5/8	1½	3½	3	11/16 × 1 11/16	34
	3 7/16	18CH2167	19	12⅛	6	½	5/8	1½	3½	4		44
20	3	20CH2166	21	13½	6	½	5/8	1½	3½	3	11/16 × 1 11/16	36
	3 7/16	20CH2167	21	13½	6	½	5/8	1½	3½	4		47
24	3 7/16	24CH2167	25	16½	6	5/8	5/8	1⅝	3½	4	11/16 × 1 11/16	53

*Refer to Page H-99 for bearings *For hangers with oil pipe add –0 to part number

Style 230

No. 230 hangers are designed for heavy duty applications where mounting on top of the trough flange is required. Hard iron or bronze bearings are normally furnished; however, other bearings are available.

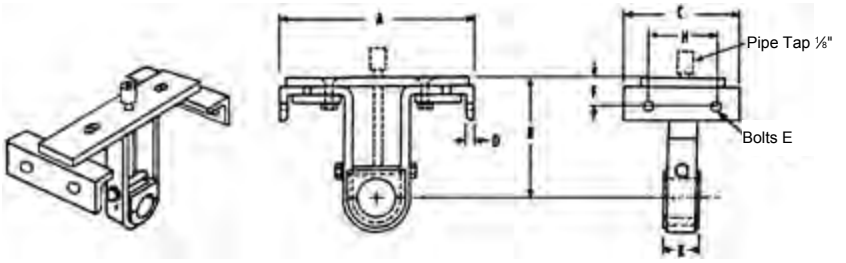


Conveyor Diameter	Coupling Size	Part Number*	B	C	D	E	F	H	K	L	M Slot	Weight Each
6	1½	6CH2303	4½	4½	3/16	3/8	8¾	2½	2	9¾	7/16 × 1 1/16	6
9	1½	9CH2303	6⅛	4½	¼	3/8	12¼	2½	2	13½	7/16 × 1 1/16	8
	2	9CH2304	6⅛	4½	¼	3/8	12¼	2½	2	13½		10
10	1½	10CH2303	6⅜	4½	¼	3/8	13¼	2½	2	14½	7/16 × 1 1/16	9
	2	10CH2304	6⅜	4½	¼	3/8	13¼	2½	2	14½		11
12	2	12CH2304	7¾	5	3/8	½	15¾	2½	2	17½	9/16 × 1 5/16	15
	2 7/16	12CH2305	7¾	5	3/8	½	15¾	2½	3	17½		20
	3	12CH2306	7¾	5	3/8	½	15¾	2½	3	17½		25
14	2 7/16	14CH2305	9¼	5	½	½	17¾	2½	3	19½	9/16 × 1 5/16	24
	3	14CH2306	9¼	5	½	½	17¾	2½	3	19½		29
16	3	16CH2306	10⅝	5	½	½	19¾	2½	3	21½	9/16 × 1 5/16	35
18	3	18CH2306	12⅛	6	½	5/8	22¼	3½	3	24½	11/16 × 1 11/16	34
	3 7/16	18CH2307	12⅛	6	½	5/8	22¼	3½	4	24½		47
20	3	20CH2306	13½	6	½	5/8	24¼	3½	3	26½	11/16 × 1 11/16	40
	3 7/16	20CH2307	13½	6	½	5/8	24¼	3½	4	26½		49
24	3 7/16	24CH2307	16½	6	5/8	5/8	28¼	3½	4	30½	11/16 × 1 11/16	55

*Refer to Page H-99 for bearings *For hangers with oil pipe add –0 to part number

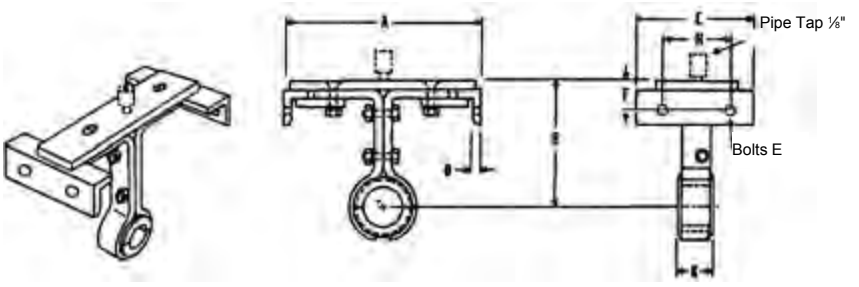
Style 316

No. 316 hangers are designed for heavy duty use in conveyors where abnormal heat requires unequal expansion between the screw and conveyor trough. Hard iron or bronze bearings are normally used; however, this hanger can be furnished with other bearings.



Style 326

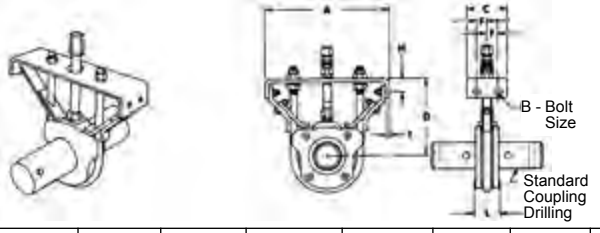
No. 326 hangers are designed to permit minimum obstruction of material flow and are used in conveyors where abnormal heat requires unequal expansion between the screw and the conveyor trough. Hard iron or bronze bearings are normally used, but other type bearings are available.



Conveyor Diameter	Coupling Size	Part Number Style 316*	Part Number Style 326*	A	B	C	D	E	F	H	K
6	1½	6CH3163	6CH3263	7	4½	6	3/16	3/8	3/4	4½	2
9	1½ 2	9CH3163 9CH3164	9CH3263 9CH3264	10 10	6⅛ 6⅛	6 6	3/16 3/16	3/8 3/8	1 1	4½ 4½	2 2
10	1½ 2	10CH3163 10CH3164	10CH3263 10CH3264	11 11	6⅜ 6⅜	6 6	3/16 3/16	3/8 3/8	1 1	4½ 4½	2 2
12	2 2 7/16 3	12CH3164 12CH3165 12CH3166	12CH3264 12CH3265 12CH3266	13 13 13	7¾ 7¾ 7¾	6½ 6½ 6½	¼ ¼ ¼	½ ½ ½	1¼ 1¼ 1¼	5 5 5	2 3 3
14	2 7/16 3	14CH3165 14CH3166	14CH3265 14CH3266	15 15	9¼ 9¼	6½ 6½	¼ ¼	½ ½	1⅜ 1⅜	5 5	3 3
16	3	16CH3166	16CH3266	17	10⅝	6½	¼	½	1⅜	5	3
18	3 3 1/16	18CH3166 18CH3167	18CH3266 18CH3267	19 19	12⅛ 12⅛	7 7	¼ ¼	5/8 5/8	1⅝ 1⅝	5¼ 5¼	3 4
20	3 3 1/16	20CH3166 20CH3167	20CH3266 20CH3267	21 21	13½ 13½	7 7	¼ ¼	5/8 5/8	1⅝ 1⅝	5¼ 5¼	3 4
24	3 1/16	24CH3167	24CH3267	25	16½	7	¼	5/8	1¾	5¼	4

*Refer to Page H-99 for bearings

*For hangers with oil pipe add –0 to part number



Air Purged Hanger

Air purged hangers are recommended when handling dusty and abrasive materials which contribute to shut-downs and hanger bearing failures. They should not be used when handling hot materials (over 250°F) or wet sticky materials or when handling nonabrasive materials when an inexpensive hanger will do the job satisfactorily. Maximum trough loading should not exceed 15%. The air, at approximately 1¼ PSI, enters the housing at the top, passes over and around the bearing, and is dissipated around the coupling shaft on both sides of the housing. Only 3 to 7 cu. ft. of air per minute is required to keep each hanger bearing clean.

Screw Diameter	Part Number	Shaft Dia.	Weight Each	A	B	C	D	F	H	L	T
9	9CHAPH3 9CHAPH4	1½ 2	15 20	10	3/8 3/8	4½	6⅛	1¼	1	2	¼
12	12CHAPH4 12CHAPH5 12CHAPH6	2 2 7/16 3	30 52 68	13	½	5	7¼	1¼	1¼	2 3 3	¼
14	14CHAPH5 14CHAPH6	2 7/16 3	60 74	15	½	5	9¼	1¼	1⅜	3	⅜
16	16CHAPH6	3	77	17	½	5	10⅝	1¼	1⅜	3	⅛
18	18CHAPH6	3	91	19	5/8	6	12⅛	1¼	1⅜	3	½
20	20CHAPH6 20CHAPH7	3 3 1/16	105 140	21	5/8	6	13½	1¼	1⅜	3 4	½
24	24CHAPH7	3 1/16	155	25	5/8	6	16½	1¼	1⅜	4	½

Space required on coupling for hanger.
Air supply should be clean and dry.

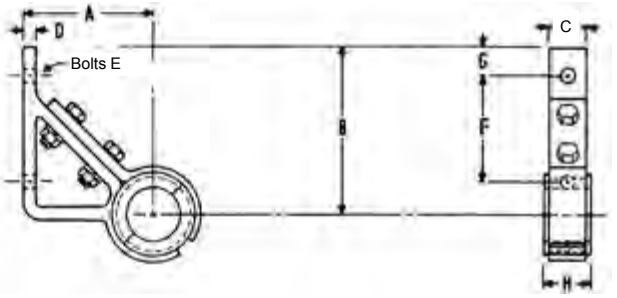
Dimensions in inches.
Weight in pounds.

Hangers

Style 30

No. 30 hangers are designed for side mounting within the conveyor trough on the non-carrying side and permit a minimum of obstruction of material flow. Available with friction type bearing.



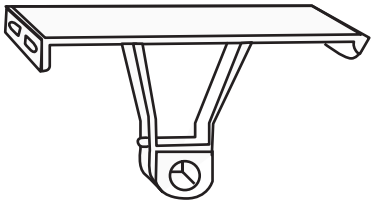


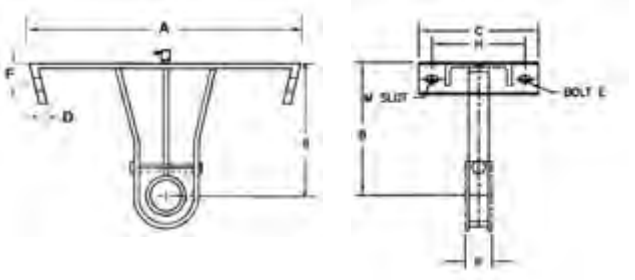
Conveyor Diameter	Coupling Diameter	Part Number*	A	B	C	D	E	F	G	H	Weight Each
6	1½	6CH303	3½	4¼	1½	⅜	5⁄16	3⅛	½	2	3
9	1½	9CH303	5	5⅞	1½	⅜	⅜	4¼	½	2	6
	2	9CH304	5	5⅞	1½	½	⅜	4¼	½	2	8
10	1½	10CH303	5½	6⅜	1½	⅜	½	4⅜	¾	2	8
	2	10CH304	5½	6⅜	1½	½	½	4⅜	¾	2	9
12	2	12CH304	6½	7½	1½	½	½	5½	¾	2	12
	2⁷⁄16	12CH305	6½	7½	2	½	½	5½	¾	3	18
	3	12CH306	6½	7½	2	⅝	½	5½	¾	3	20
14	2⁷⁄16	14CH305	7½	9	2	½	⅝	6⅞	⅞	3	20
	3	14CH306	7½	9	2	⅝	⅝	6⅞	⅞	3	22
16	3	16CH306	8½	10⅜	2	⅝	⅝	8	1	3	32
18	3	18CH306	9½	11⅞	2	¾	⅝	8	1¼	3	30
	3⁷⁄16	18CH307	9½	11⅞	3	¾	⅝	8	1¼	4	33
20	3	20CH306	10½	13¼	2	¾	⅝	10¼	1¼	3	32
	3⁷⁄16	20CH307	10½	13¼	3	¾	⅝	10¼	1¼	4	38
24	3⁷⁄16	24CH307	12½	16¼	3	¾	¾	12¾	1½	4	46

*Refer to Page H-99 for bearings
NOTE: For hangers with oil pipe add –0 to part number

Style 216F

No. 216F hangers are designed for heavy duty applications and are mounted inside of flared trough. Hard iron or bronze bearings are normally furnished; however, other bearings are available.





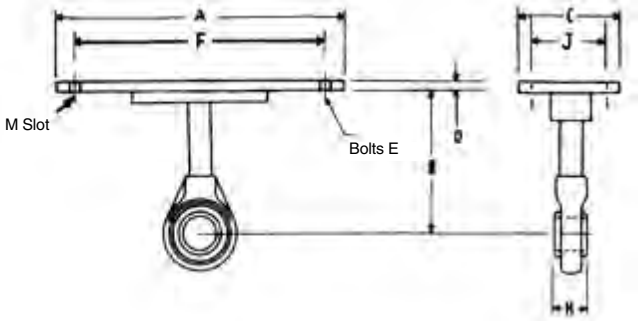
Conveyor Diameter	Coupling Diameter	Part Number*	A	B	C	D	E	F	H	K	Weight Each	M Slot
6	1½	6CH216F3	14	7	7½	¼	⅜	⅞	6	2	9	7⁄16 × ¾
9	1½	9CH216F3	18	9	9	3⁄16	⅜	1	7	2	14	7⁄16 × 15⁄16
	2	9CH216F4									17	
12	2	12CH216F4	22	10	9	⅜	½	1¼	7	2	24	9⁄16 × 15⁄16
	2⁷⁄16	12CH216F5								3	28	
	3	12CH216F6									32	
14	2⁷⁄16	14CH216F5	24	11	9	⅜	½	1⅛	7	3	31	9⁄16 × 15⁄16
	3	14CH216F6									34	
16	3	16CH216F6	28	11½	9	½	⅝	1¼	7	3	38	1⁄16 × 1
18	3	18CH216F6	31	12⅛	10	½	⅝	1½	8	3	52	1⁄16 × 15⁄16
	3⁷⁄16	18CH216F7								4	61	
20	3	20CH216F6	34	13½	10	½	⅝	1½	8	3	55	1⁄16 × 15⁄16
	3⁷⁄16	20CH216F7								4	64	
24	3⁷⁄16	24CH216F7	40	16½	10	⅝	⅝	1⅝	8	4	71	1⁄16 × 15⁄16

*Refer to Page H-99 for bearings
NOTE: For hangers with oil pipe add –0 to part number

Style 60

No. 60 hangers are furnished with a heavy duty, permanently lubricated and sealed, self-aligning ball bearing which permits temperatures up to 245º F. and will allow for up to 4º shaft misalignment. This hanger is mounted on top of the trough flanges. Grease fitting can be furnished if specified.



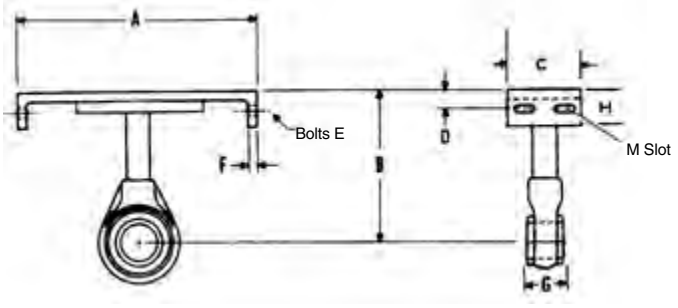


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	J	Weight Each	M Slot
6	1½	6CH603	9¾	4½	4½	3/16	3/8	8¾	1 1/16	2	7	7/16 × 1 1/16
9	1½	9CH603	13½	6⅛	4½	¼	3/8	12¼	1 1/16	2½	8	7/16 × 1 1/16
	2	9CH604	13½	6⅛	4½	¼	3/8	12¼	1¾	2½	9	7/16 × 1 1/16
10	1½	10CH603	14½	6⅜	4½	¼	3/8	13¼	1 1/16	2½	9	7/16 × 1 5/16
	2	10CH604	14½	6⅜	4½	¼	3/8	13¼	1¾	2½	10	7/16 × 1 5/16
12	2	12CH604	17½	7¾	5	3/8	½	15¾	1¾	2½	12	9/16 × 1 5/16
	2 7/16	12CH605	17½	7¾	5	3/8	½	15¾	1 63/64	2½	20	9/16 × 1 5/16
	3	12CH606	17½	7¾	5	3/8	½	15¾	2 1/16	2½	30	9/16 × 1 5/16
14	2 7/16	14CH605	19½	9¼	5	½	½	17¾	1 63/64	2½	21	9/16 × 1 5/16
	3	14CH606	19½	9¼	5	½	½	17¾	2 1/32	2½	32	9/16 × 1 5/16
16	3	16CH606	21½	10⅝	5	½	½	19¾	2 1/32	2½	35	9/16 × 1 5/16
18	3	18CH606	24½	12⅛	6	½	5/8	22¼	2 1/32	3½	40	11/16 × 1 11/16
20	3	20CH606	26½	13½	6	½	5/8	24¼	2 1/32	3½	45	11/16 × 1 11/16
24	3 7/16	24CH607	30½	16½	6	5/8	5/8	28¼	2 31/64	3½	58	11/16 × 1 11/16

*For hangers with oil pipe add –0 to part number

Style 70

No. 70 hangers are furnished with a heavy duty, permanently lubricated and sealed, self aligning ball bearing which permits temperatures up to 245º F. and will allow for up to 4º shaft misalignment. This hanger is mounted inside the trough. Grease fitting can be furnished if specified.



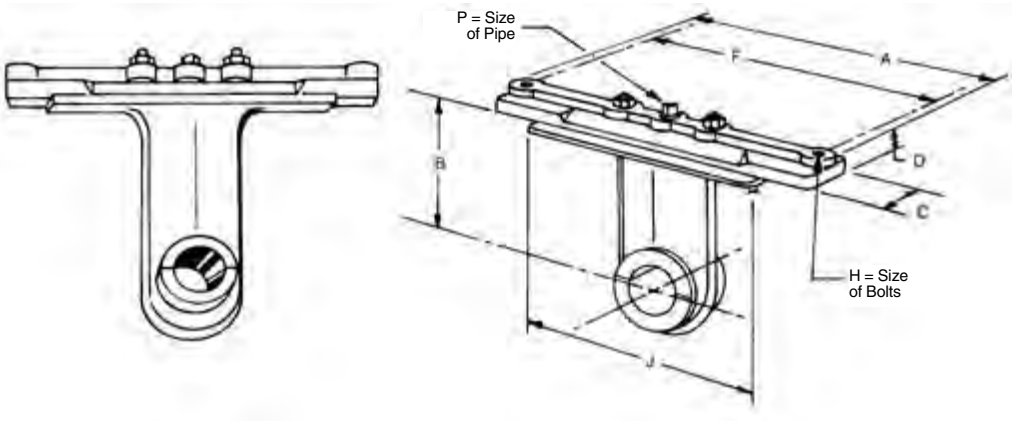
Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	G	H	Weight Each	M Slot
6	1½	6CH703	7	4½	4½	¾	3/8	3/16	1 1/16	1 1/2	7	7/16 × 1 1/16
9	1½	9CH703	10	6⅛	4½	1	3/8	¼	1 1/16	1¾	8	7/16 × 1 1/16
	2	9CH704	10	6⅛	4½	1	3/8	¼	1¾	1¾	9	
10	1½	10CH703	11	6⅜	4½	1	3/8	¼	1 1/16	1¾	9	7/16 × 1 1/16
	2	10CH704	11	6⅜	4½	1	3/8	¼	1¾	1¾	10	
12	2	12CH704	13	7¾	5	1¼	½	3/8	1¾	2⅛	12	9/16 × 1 5/16
	2 7/16	12CH705	13	7¾	5	1¼	½	3/8	1 63/64	2⅛	20	
	3	12CH706	13	7¾	5	1¼	½	3/8	2 1/32	2⅛	30	
14	2 7/16	14CH705	15	9¼	5	1⅜	½	½	1 63/64	2¼	21	9/16 × 1 5/16
	3	14CH706	15	9¼	5	1⅜	½	½	2 1/32	2¼	32	
16	3	16CH706	17	10⅝	5	1⅜	½	½	2 1/32	2¼	35	9/16 × 1 5/16
18	3	18CH706	19	12⅛	6	1½	5/8	½	2 1/32	2½	40	11/16 × 1 11/16
20	3	20CH706	21	13½	6	1½	5/8	½	2 1/32	2½	45	11/16 × 1 11/16
24	3 7/16	24CH707	25	16½	6	1⅝	5/8	5/8	2 1/32	2⅝	58	11/16 × 1 11/16

*For hangers with oil pipe add –0 to part number

Style 19B

The No. 19-B Hanger is similar in construction to the No. 18-B except they are mounted on top of the trough angles. Built-in ledges provide supports for the ends of the cover. They are streamlined in design and permit free passage of the material.

Top half is furnished with bronze bearing. Bottom half can be supplied in oil impregnated wood, hard iron, or other special caps may be furnished on request.



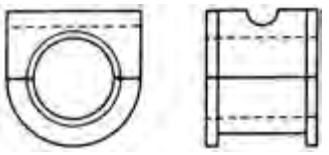
Conveyor Diameter	Bearing Bore	Part Number	Weight	A	B	C	D	F	H Bolt	J	P Pipe
6	1½	6CH19B3	8.5	9⅞	4½	1⅞	⅞	8¾	9/16	6½	⅛
9	1½ 2	9CH19B3 9CH19B4	13.0 15.5	13½ 13½	6⅛ 6⅛	1¾ 1¾	1 1	12¼ 12¼	9/16 9/16	9½ 9½	⅛ ⅛
10	1½ 2	10CH19B3 10CH19B4	14.0	14½	6⅜	1¾	1	13¼	9/16	10½ 10½	⅛
12	2 2 7/16 3	12CH19B4 12CH19B5 12CH19B6	24.0 24.5	17 17	7¾ 7¾	2 2⅛	1¼ 1⅝	15¾ 15¾	9/16 9/16	12½ 12½ 12½	⅛ ⅛
14	2 7/16 3	14CH19B5 14CH19B6	37.0	19¼	9¼	3	1½	17¾	9/16	14½ 14¼	⅛
16	3	16CH19B6	45.0	21¼	10⅝	3	1¾	19¾	11/16	16½	⅛
18	3	18CH19B6	48.5	23¾	12⅛	3	1⅝	22¼	11/16	18½	⅛
20	3 7/16	20CH19B7	60.0	26¼	13½	4	1½	24¼	13/16	20	⅛

Screw Conveyor Hanger Bearing Selection Application

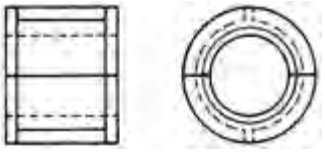
BEARING MATERIAL	MAXIMUM OPERATING TEMP. (˚F)	STYLES AVAILABLE	MATERIAL FDA COMPLIANT	SELF LUBE	SOME SUGGESTED USES	COMMENTS
Martin White Iron	500°	220	Yes		Chemical, Cement, Aggregate	Requires hardened shaft. Can be noisy. Lubrication required in some applications.
Ertalyte®	200°	220, 216	Yes		Food	Registered Trademark of Quadrant Engineering Products
Gatke	400°	220, 216			Chemical	Fiberglass fabric. Good for higher speeds.
Martin HARD IRON	500°	220		Yes	Chemical, Cement, Aggregate	Requires Hardened Shaft
CAST HARD IRON	500°	220, 216, 19B			Lime, Cement, Salt, Gypsum	Requires hardened shaft. Can be noisy. Lubrication required in some applications.
WOOD	160°	220, 216, 19B		Yes	Grain, Feed, Fertilizer	Good general purpose.
Martin BRONZE	850°	220		Yes	Grain, Feed, Processing	High quality bearings. High load capacity.
NYLATRON GS	250°	220, 19B		Yes	Chemical, Handling, Grain, Feed	Very low load capacity.
UHMW	225°	220, 216	Yes	Yes	Food	Material USDA approved. Does not swell in water.
STELLITE	1000°	220, 216			Chemical, Cement, Aggregate	Requires Stellite insert in shaft.
INDUSTRIAL GRADE ENGINEERED NYLON	160°	220		Yes	Grain, Feed, Fertilizer	Economical replacement for wood.
WHITE MELAMINE	190°	220	Yes		Food	Suitable for repeat use in food contact applications at temps not exceeding 190°F.
FOOD GRADE ENGINEERED NYLON	300°	220	Yes	Yes	Food, Grain, Fertilizer	For dry application.
BALL BEARING	180°	60, 70			Non-abrasive applications	General purpose use.
Martin HDPE	200°	220	Yes	Yes	Grain, Feed, Chemical Handling	Recommended for non-abrasive applications
CERAMIC [1]	1,000°	220, 216	Yes		Chemical, Cement, Food	Requires hardened shafts.
Martin URETHANE	200°	220		YES	Grain, Chemical, Fertilizer	Good general purpose.

[1] Higher temperature ceramics are available.

Hanger Bearings

Hanger Type	Shaft Diameter	Part Number	Bearing
216	1½	CHB2163*	
	2	CHB2164*	
230	2 7/16	CHB2165*	
	3	CHB2166*	
316	3 7/16	CHB2167*	

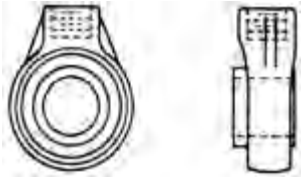
*H—Hard Iron *W—Wood *BR – Bronze *U—UHMW *G—Gatke *ER – Ertalyte® *C—Ceramic * St—Stellite * UR - Urethane
* Oil hole is furnished on hard iron and bronze standard.

Hanger Type	Shaft Diameter	Part Number	Bearing
220	1	CHB2202*	
	1½	CHB2203*	
226	2	CHB2204*	
326	2 7/16	CHB2205*	
	3	CHB2206*	
30	3 7/16	CHB2207*	

*H — Cast Hard Iron with oil hole *W — Wood *N — Nylatron *P – HDPE *G—Gatke *ER – Ertalyte®

MHI — Martin Hard iron (oil impregnated) *MCB — Melamine (Furnished Less Flanges) *C – Ceramic *WN – White Nylon *WI – White Iron

*MBR — Martin Bronze (oil impregnated) *U — UHMW *UR – Urethane

Hanger Type	Shaft Diameter	Part Number	Bearing
60 Ball Bearing 70 Ball Bearing	1½	CHB603	
	2	CHB604	
	2 7/16	CHB605	
	3	CHB606	
	3 7/16	CHB607	

Note: New style bearings are available with slinger shield one side.

Hanger Type	Shaft Diameter	Part Number	Bearing
18B	1½	CHB18B3*	
	2	CHB18B4*	
	2 7/16	CHB18B5*	
19B	3	CHB18B6*	
	3 7/16	CHB18B7*	

*W—Wood *H—Hard Iron *N—Nylatron *G—Gatke
Note: Furnished as bottom cap only.

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Trough Covers

Trough Cover

14	TCP	14	-12

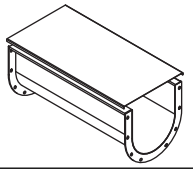
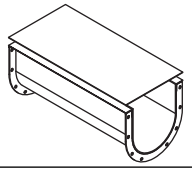
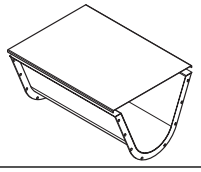
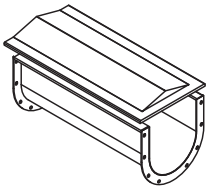
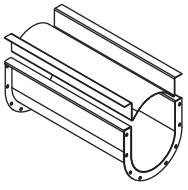
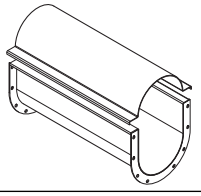
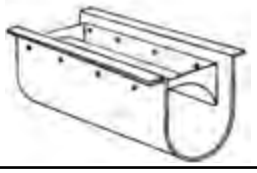
— Length of Cover

Conveyor Diameter

Type
TCP — Plain
TCS — Semi Flanged
TCF — Flanged
TCH — Hip Roof
TSC — Shroud

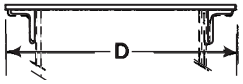
Cover Thickness
16 — 16 GA.
14 — 14 GA.
12 — 12 GA
10 — 10 GA.

It is the responsibility of the contractor, installer, owner and user to install, maintain and operate the conveyor components and conveyor assemblies manufactured and supplied by Martin in such a manner as to comply with the Williams-Steiger Occupational Safety and Health Act and with all state and local laws and ordinances and the American National Standard Institute Safety Code.

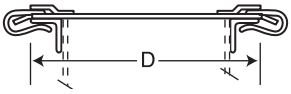
Flanged Covers		Most commonly used. Can be supplied with gaskets and butt straps for dust tight applications. Semi-flanged must be furnished if spring clamps are used.
Flat Covers		Usually used only to cover conveyor for safety.
Flared Trough Covers		Usually flanged type and heavier gauges because of span.
Hip Roof Covers		Hip roof covers are similar to conventional flanged covers except they are peaked slightly to form a ridge along the center of the cover. A welded end plate closes the peaked section at each end of the trough while intermediate joints are usually buttstrap connected. Hip roof covers are usually recommended for outdoor installations to prevent accumulation of moisture. They are also often used in applications where a more rigid cover is required.
Shroud Covers		Used to approximate tubular cross section for inclined or feeder applications.
Domed Covers		Domed covers are half circle domes rolled to the same inside diameter as the trough bottom and are flanged for bolting to the trough top rails. They are used where venting of fumes or heat from the material being conveyed is required. End sections have a welded end plate and intermediate joints are buttstrap connected. Vent pipes or suction lines can be attached to the cover.
Feeder Shrouds		Shrouds are used in trough sections of screw feeders to decrease the clearance between the cover and feeder screw to obtain proper feed regulation. Lengths are sufficient to prevent flushing of the majority of materials being handled and gauges are proportioned to trough size and gauge.

Trough Cover

Plain Cover

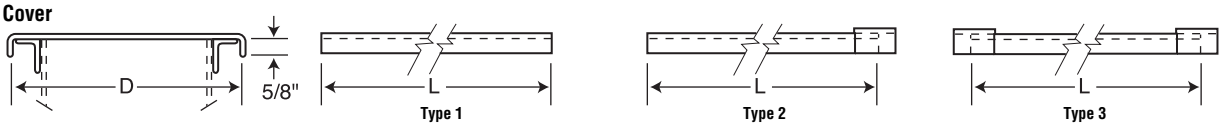


Semi-flanged Cover

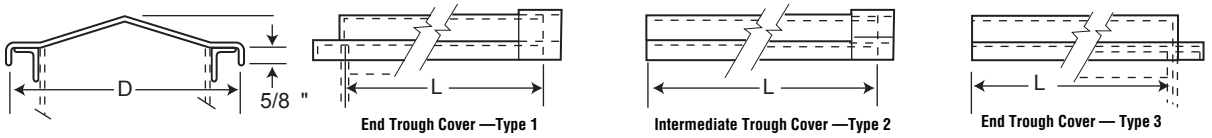


All conveyor troughs should have some type of cover not only to keep material inside the trough and to protect material in the trough from outside elements, **but trough definitely should be covered as a safety measure,** preventing injuries by keeping workers clear of the moving parts inside the conveyor trough. See H-122, Safety.

Flanged Cover



Hip Roof Cover



Conveyor Diameter	Plain Cover				Plain Semi-Flanged Cover				Flanged Cover				Hip Roof Cover			
	Part Number	Thickness Ga.	Wt. Per Ft.	D	Part Number	Thickness Ga.	Wt. Per Ft.	D	Part Number	Thickness Ga.	Wt. Per Ft.	D	Part Number	Thickness Ga.	Wt. Per Ft.	D
4 *	4TCP16	16	1.5	7¾	4TCS16 4TCS14	☐ 16 14	2.1 2.6	7⅛	4TCF16 4TCF14	☐ 16 14	1.9 2.4	8⅜	4TCH16 4TCH14	☐ 16 14	2.0 2.5	8⅜
6 *	6TCP16	16	2.0	10⅜	6TCS16 6TCS14	☐ 16 14	2.3 3.8	9 18⁄ 8	6TCF16 6TCF14	☐ 16 14	2.1 2.6	10⅜	6TCH16 6TCH14	☐ 16 14	2.3 2.8	10⅜
9 *	9TCP14	14	3.5	13⅜	9TCS14 9TCS12 9TCS10	☐ 14 12 10	4.1 5.7 7.3	13⅛	9TCF16 9TCF14 9TCF12 9TCF10	16 ☐ 14 12 10	3.2 3.9 5.5 7.1	14	9TCH16 9TCH14	16 ☐ 14	3.3 4.1	14
10 *	10TCP14	14	3.8	14⅜	10TCS14 10TCS12 10TCS10	☐ 14 12 10	4.4 6.1 7.8	14⅛	10TCF16 10TCF14 10TCF12 10TCF10	16 ☐ 14 12 10	3.4 4.2 5.9 7.6	15	10TCH16 10TCH14	16 ☐ 14	3.5 4.3	15
12 **	12TCP14	14	4.6	17½	12TCS14 12TCS12 12TCS10	☐ 14 12 10	5.1 7.1 9.0	17⅛	12TCF14 12TCF12 12TCF10	☐ 14 12 10	4.9 6.9 8.8	18	12TCH14 12TCH12	☐ 14 12	5.0 7.1	18
14 **	14TCP14	14	5.1	19½	14TCS14 14TCS12 14TCS10	☐ 14 12 10	5.6 7.8 9.9	19⅛	14TCF14 14TCF12 14TCF10	☐ 14 12 10	5.4 7.6 9.7	19⅞	14TCH14 14TCH12	☐ 14 12	5.5 7.7	19⅞
16 **	16TCP14	14	5.6	21½	16TCS14 16TCS12 16TCS10	☐ 14 12 10	6.1 8.5 10.8	21⅛	16TCF14 16TCF12 16TCF10	☐ 14 12 10	5.9 8.3 10.6	21⅞	16TCH14 16TCH12	☐ 14 12	6.1 8.5	21⅞
18 **	18TCP12	12	8.9	24½	18TCS12 18TCS10	☐ 12 10	9.6 12.3	24⅛	18TCF14 18TCF12 18TCF10	14 ☐ 12 10	6.7 9.4 12.1	25	18TCH14 18TCH12	14 ☐ 12	6.8 9.5	25
20 **	20TCP12	12	9.7	26½	20TCS12 20TCS10	☐ 12 10	10.3 13.3	26⅛	20TCF14 20TCF12 20TCF10	14 ☐ 12 10	7.2 10.1 13.1	27	20TCH14 20TCH12	14 ☐ 12	7.4 10.4	27
24 **	24TCP12	12	11.1	30½	24TCS12 24TCS10	☐ 12 10	11.8 15.1	30⅛	24TCF14 24TCF12 24TCF10	14 ☐ 12 10	8.3 11.6 14.9	31	24TCH14 24TCH12	14 ☐ 12	8.4 11.8	31

For average applications where dust confinement is not a problem, 2'-0" centers or 10 fasteners per 10'-0" section are generally satisfactory. For commercially dust tight 1'-0" centers or 20 fasteners per 10'-0" section are suggested.

*L — Standard lengths are 5'-0" & 10'-0"

**L — Standard lengths are 5', 6', 10' & 12'-0"

☐ — Standard gauge

Dust Tight Inspection Doors



- Moisture and Dust Tight.
- Heavy Duty Construction.
- Installs Easily on Existing Equipment.
- Simple Operation.
- Stocked in Carbon Steel and 304SS.
- 316SS Available upon request.



The Martin dust tight inspection door is ideal for visual inspection in dusty applications. Once installed, the Martin inspection door will give you years of trouble free service. It allows efficient access by authorized personnel while maintaining security with a latch that can be bolted or locked. The door comes with a poured black rubber door seal for chemical resistance and long life. The hinge and latch on all models are laser cut of 304 SS material for precision and corrosion resistance.

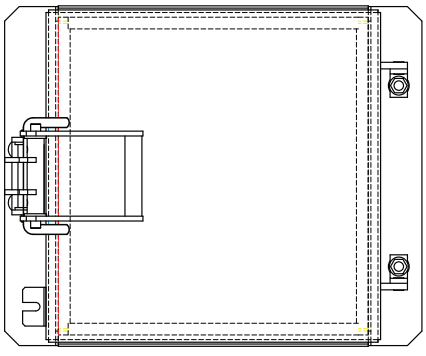


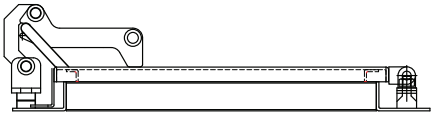




The Martin dust tight inspection door can be supplied with an expanded metal screen welded inside the opening to prevent physical access to moving parts.

These doors are available from stock in many sizes. Custom sizes





MDT® Martin Dust Tight Doors

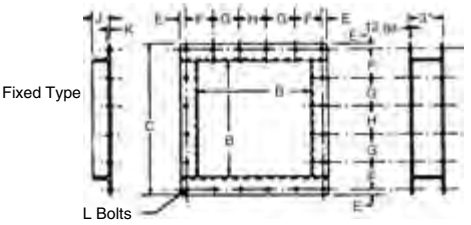
Carbon Steel Part Number	Stainless Steel Part Number	Size	Description
0606PG-ID	0606PG-ID-SS	6" x6"	C.S. construction with S.S.Hinge
0909PG-ID	0909PG-ID-SS	9"X9"	C.S. construction with S.S.Hinge
1010PG-ID	1010PG-ID-SS	10"X10"	C.S. construction with S.S.Hinge
1212PG-ID	1212PG-ID-SS	12"X12"	C.S. construction with S.S.Hinge
1414PG-ID	1414PG-ID-SS	14"X14"	C.S. construction with S.S.Hinge
1616PG-ID	1616PG-ID-SS	16"X16"	C.S. construction with S.S.Hinge

Martin Dust Tight Doors are stocked in Carbon Steel and 304SS, 316SS is available upon request. Special sizes also available upon request.

Cover Accessories

Flanged Conveyor Inlets

The two styles of flanged conveyor inlets are designed for either bolting or welding to flat or flanged conveyor trough cover. The inlet size and bolt arrangement is the same as the standard conveyor discharge spout.

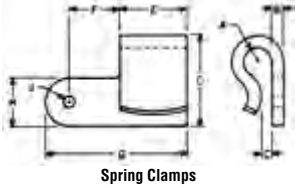


Conveyor Diameter	Part Number		Weight	B	C		E		F	G	H	J	K	L
	Fixed Inlet	Detachable Inlet			Fixed Inlet	Detachable Inlet	Fixed Inlet	Detachable Inlet						
4	4CIF	4CID	1.8	5	7½	7½	⅜	⅜	2¼	—	2¼	1¼	3/16	¼
6	6CIF	6CID	5.0	7	10	10	1 1/16	1 1/16	2 13/16	—	3	1½	3/16	⅜
9	9CIF	9CID	6.8	10	13	13	½	½	4	—	4	1½	3/16	⅜
10	10CIF	10CID	7.4	11	14¼	14¼	⅝	⅝	4 5/16	—	4⅜	1½	3/16	⅜
12	12CIF	12CID	12.1	13	17¼	17¼	⅞	⅞	5⅛	—	5¼	2	3/16	⅜
14	14CIF	14CID	13.7	15	19¼	19¼	⅞	⅞	3½	3½	3½	2	3/16	⅜
16	16CIF	16CID	15.8	17	21¼	21¼	⅞	⅞	3¾	4	4	2	3/16	⅜
18	18CIF	18CID	29.0	19	24¼	24¼	1⅛	1⅛	4 1/16	4⅜	4⅜	2½	3/16	½
20	20CIF	20CID	31.8	21	26¼	26¼	1⅛	1⅛	4⅞	4¾	4¾	2½	3/16	½
24	24CIF	24CID	37.2	25	30¼	30¼	1⅛	1⅛	5⅝	5⅝	5½	2½	3/16	½

Spring Clamps

Clamp No.	A	B	C	D	E	F	G	H	J	Wt.
SPC—1	5/16	3/16	¼	1¾	1⅜	1⅛	3	1	9/32	.38

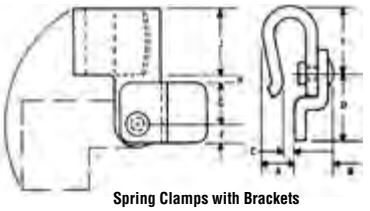
Spring Clamps are used to attach plain and semi-flanged covers to trough. These clamps are normally riveted to the trough flange and will pivot to allow removal of cover.


Spring Clamps

Spring Clamps with Cover Bracket

Clamp No.	A	B	C	D	E	F	G	H	J	Wt.
SPCA—1	1 1/16	⅜	3/16	1¼	1 3/16	⅜	⅞	⅜	1¼	.50

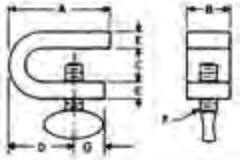
Spring Clamps with cover brackets are designed to attach to the top side of semi-flanged and plain covers.


Spring Clamps with Brackets

Screw Clamps

Clamp No.	A	B	C	D	E	F	G	Wt.
CSC—2	2¼	1	1 3/16	1¼	5/16	⅜	⅝	.42

Screw Clamps are a simple and effective means of attaching flanged or flat covers to trough.
Screw Clamps available in mild steel, stainless steel and zinc plated.

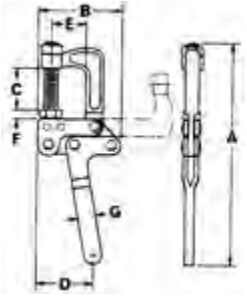

Screw Clamps

	Red Rubber	Sponge Rubber	*White Rubber
Conv. Dia.	Size	Size	Size
4.6	RR125 ⅛ × 1¼	SP125 1⅛ × 1¼	WN125 ⅛ × 1¼
9,10	RR150 ⅛ × 1½	SP150 ⅛ × 1½	WN150 ⅛ × 1½
12, 14, 16	RR200 ⅛ × 2	SP200 ⅛ × 2	WN200 ⅛ × 2
18, 20, 24	RR250 ⅛ × 2½	SP250 ⅛ × 2½	WN250 ⅛ × 2½

* FDA Approved

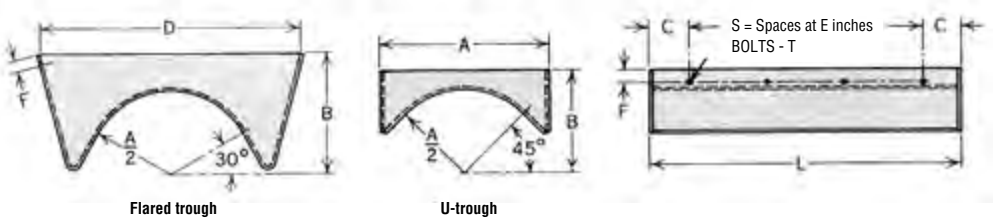
Conveyor	Part Number	No. Required per 10´ Section	A	B	C	D	E	F	G
4 – 24	QTC	6 to 8	7 13/16	2 15/16	1 25/32	2	1¼	5/16	⅝

Quick acting toggle clamps are used to attach covers for quick accessibility. Normally this type clamp is attached by welding the front or top of clamp to the trough and can be adjusted to fit all sizes of trough, while allowing 90° to clear working area.


Toggle Clamps

Feeder Shrouds

Shrouds are used in trough sections of screw feeders to decrease the clearance between the cover and feeder screw to obtain proper feed regulation. Lengths are sufficient to prevent flushing of the majority of materials being handled and gauges are proportioned to trough size and gauge.

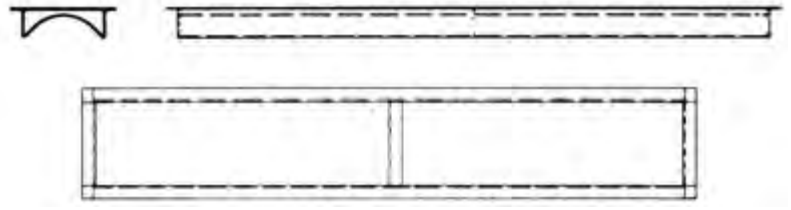


Flared trough U-trough

Screw Diameter Inches	Part No.		Shroud Thickness	A	B		C	D	E	F		L	T	S
	U	Flared			U	Flared				U	Flared			
4	4TFS14	4FFS14	14 Ga.	5	3⅝	—	2	—	4	⅝	—	8	¼	1
6	6TFS14	6FFS14	14 Ga.	7	4½	7	3	14	6	¾	¾	12	5/16	1
	6TFS12	6FFS12	12 Ga.	7	4½	7	3	14	6	¾	¾	12	5/16	1
9	9TFS14	9FFS14	14 Ga.	10	6⅛	9	3	18	6	⅞	¾	18	⅜	2
	9TFS7	9FFS7	3/16"	10	6⅛	9	3	18	6	⅞	¾	18	⅜	2
10	10TFS14	10FFS14	14 Ga.	11	6⅜	—	2½	—	5	⅞	—	20	⅜	3
	10TFS7	10FFS7	3/16"	11	6⅜	—	2½	—	5	⅞	—	20	⅜	3
12	12TFS12	12FFS12	12 Ga.	13	7¾	10	3	22	6	1⅛	1	24	⅜	3
	12TFS7	12FFS7	3/16"	13	7¾	10	3	22	6	1⅛	1	24	⅜	3
14	14TFS12	14FFS12	12 Ga.	15	9¼	11	3½	24	7	1⅛	1	28	⅜	3
	14TFS7	14FFS7	3/16"	15	9¼	11	3½	24	7	1⅛	1	28	⅜	3
16	16TFS12	16FFS12	12 Ga.	17	10⅝	11½	4	28	8	1⅛	1	32	⅜	3
	16TFS7	16FFS7	3/16"	17	10⅝	11½	4	28	8	1⅛	1	32	⅜	3
18	18TFS12	18FFS12	12 Ga.	19	12⅛	12⅛	4½	31	9	1⅜	1⅜	36	⅜	3
	18TFS7	18FFS7	3/16"	19	12⅛	12⅛	4½	31	9	1⅜	1⅛	36	⅜	3
20	20TFS10	20FFS10	10 Ga.	21	13½	13½	4	34	8	1⅜	1⅜	40	⅜	4
	20TFS7	20FFS7	3/16"	21	13½	13½	4	34	8	1⅜	1⅜	40	⅜	4
24	24TFS10	24FFS10	10 Ga.	25	16½	16½	4	40	8	1⅜	1⅜	48	⅜	5
	24TFS7	24FFS7	3/16"	25	16½	16½	4	40	8	1⅜	1⅜	48	⅜	5

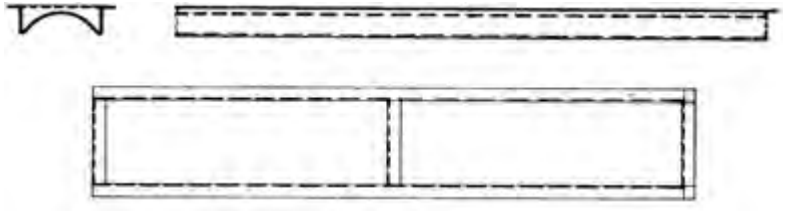
Conveyor Shrouds

Conveyor shroud covers are used to form a tubular cross section within the conveyor trough. This arrangement gives the features of a tubular housing while allowing removal of the shroud for easy access and cleaning. Flat or flanged covers can be used over the shroud cover when it is objectionable for the recess in the shroud to be exposed to dust or weather. Various types of shrouds are furnished to fit various applications. These types are described below.



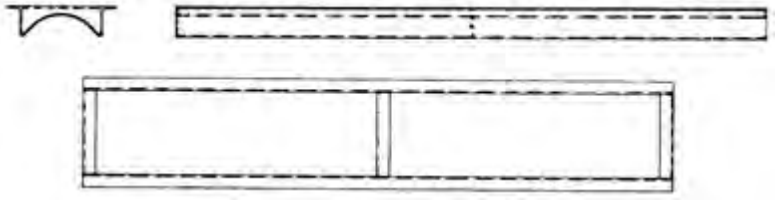
Type 1

Type 1 Shroud cover has flanged sides over top rail and flanged ends at both ends. This type is used when shroud is full length of trough or between hangers.



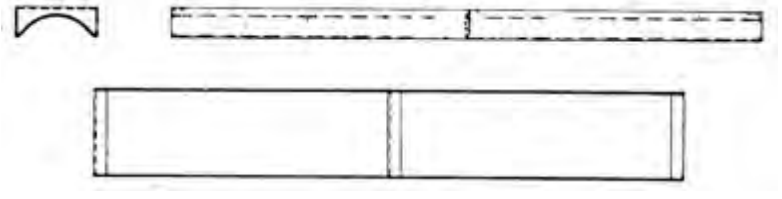
Type 2

Type 2 Shroud cover has flanged sides over top rails and flanged ends on one end over trough end; other end is plain. This type shroud is used at an inlet opening or next to a hanger at the plain end.



Type 3

Type 3 Shroud cover has flanged sides over top rail and both ends closed and no flanges over ends. This type shroud is used between hangers.



Type 4

Type 4 Shroud cover has no flanges at sides or ends. Bolt holes are provided along sides, for bolting through side of trough. This allows flush mounting with top of trough and a cover may be used over the shroud. This shroud is used mostly for short lengths when installed ahead of an inlet opening.

SECTION IV

SPECIAL FEATURES SECTION IV

Covers H-108

Trough Ends H-109

Trough H-110

Conveyor Screws.....H-113

Discharges.....H-118

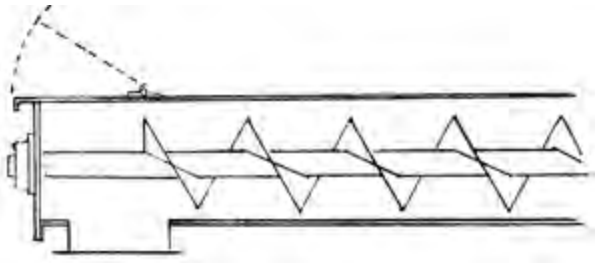
Inlets H-119

Special Features

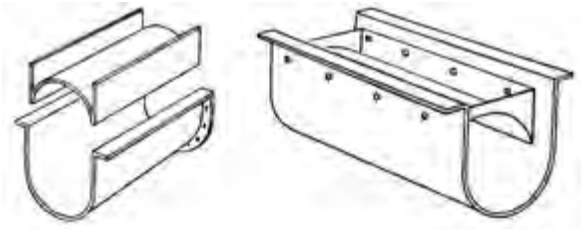
The information presented in this section gives descriptions and functions of the most commonly used special features available in the design of conveyor systems.

These special features will greatly broaden the range of uses for screw conveyor when added to the many standard features available. Standard features and components are always more desirable and practical in the design of a screw conveyor system; however, one or more of these special features may sometimes be required in special applications for a workable or more efficient system.

Covers



OVERFLOW COVER sections are used as a safety relief to handle overflow over the discharge in cases where the discharge may become plugged. It is a short section of flanged or flat cover hinged across the width to the adjoining cover. The cover is not attached to the trough in order that it can be raised by pressure from within the trough.



SHROUD COVERS are designed to fit inside a standard conveyor trough of a Screw Feeder or inclined conveyor, and create a tubular trough effect. This cover has an advantage over tubular trough in that ease of access is combined with the convenience of using standard hangers and accessories. An additional flat cover may be required over the shroud to prevent accumulation of dust or water in the recessed portion of the shroud cover.



EXPANDED METAL COVERS can be furnished where cover is required for safety but constant visual inspection is required. STANDARD COVERS of any design can be furnished in heavier gauges, when needed to support weight.



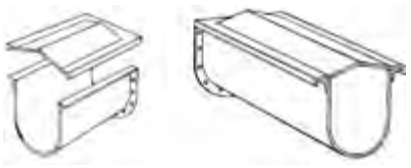
DOME COVERS are half circle domes rolled to the same inside diameter as the trough bottom and are flanged for bolting to the trough top rails. They are used where venting of fumes or heat from the material being conveyed is required. End sections have a welded end plate and intermediate joints are buttstrap connected. Vent pipes or suction lines can be attached to the cover.



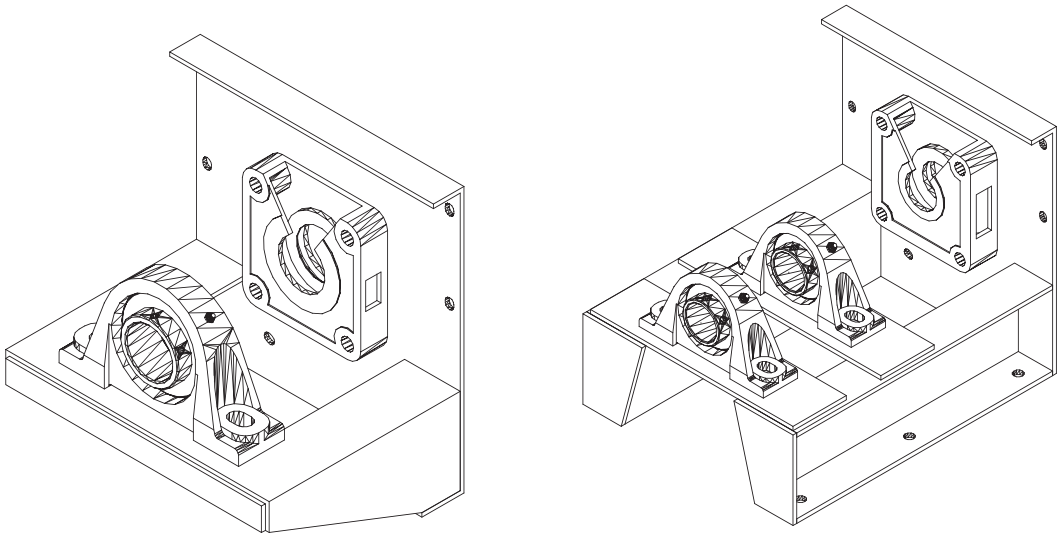
DUST SEAL COVERS are flanged down on all four sides to match channel sections fabricated on the sides, ends, and cross channels of special dust seal troughs. The length of the cover should not exceed one-half the length of the trough section.



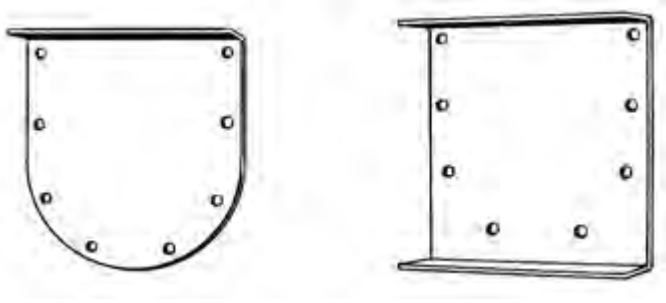
HINGED COVERS may be constructed from conventional flat covers or most special covers. They are equipped with a hinge on one side for attaching to the trough and are bolted or clamped to the trough on the other side. Hinged covers are used in applications where it is not desirable to have a loose cover, such as in high areas above walkways where the cover might fall.



HIP ROOF COVERS are similar to conventional flanged covers except they are peaked slightly to form a ridge along the center of the cover. A welded end plate closes the peaked section at each end of the trough while intermediate joints are usually buttstrap connected. Hip roof covers are usually recommended for outdoor installations to prevent accumulation of moisture. They are also often used in applications where a more rigid cover is required.



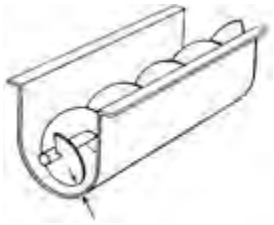
SHELF-TYPE TROUGH ENDS are furnished with outboard bearing pedestals for mounting pillow block bearings. The bearings are mounted away from the trough end plate allowing ample room to protect the bearing when handling abrasive or hot materials. This arrangement allows the use of most any type shaft seal desired. Either one or two bearings can be used.



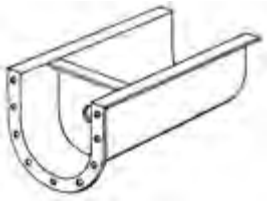
BLIND TROUGH ENDS are used on the tail end (normally the inlet end) of a conveyor, when sealing the end shaft is extremely difficult. A hanger is used inside the trough to support the tail shaft without the shaft projecting through the trough end.

A blind trough end plate can also be furnished with a dead shaft welded to the end plate. For this type the screw is bushed with an antifriction bearing to carry the radial load of the screw. When required, a grease fitting can be furnished through the dead shaft for lubricating the bearing.

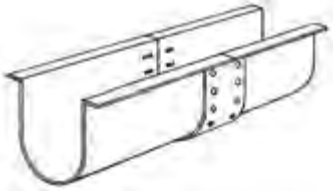
Trough



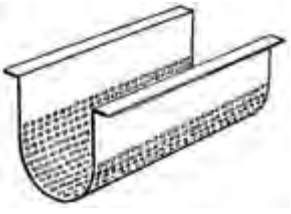
WIDE CLEARANCE TROUGH is of conventional construction except with a wider clearance between the outside of the conveyor screw and the inside of the trough. This type trough is used when it is desirable to form a layer of conveyed material in the trough. The material thus moves on itself, protecting the trough from undue wear. By using a wide clearance or oversize trough, a greater capacity than using a standard conveyor screw can be obtained for some materials that travel as a mass. When wide clearance trough is required, it is more economical to use a standard conveyor screw and the next larger size standard trough.



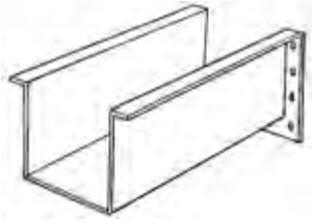
BULK HEAD is a plate or baffle shaped to the contour of the inside of the trough and is normally welded or bolted six to twelve inches from the trough end. The bulk head protects the end bearing and drive unit from heat while handling hot materials, when the pocket formed is filled with packing or insulation. The bulk head can be used in the same manner to prevent damage to seals and bearings when handling extremely abrasive materials.



EXPANSION JOINT is a connection within a length of trough to allow for expansion caused by hot materials being conveyed. The expansion joint is constructed with bolts fastened in slots to allow for expansion or with a telescoping type slip joint. The number of joints and amount of expansion will depend on the application.



PERFORATED BOTTOM TROUGH is equipped with a perforated bottom, and is used as a screening operation or drain section when liquids are present in the conveyed material. The size of the perforations in the trough will vary depending on the material and application.



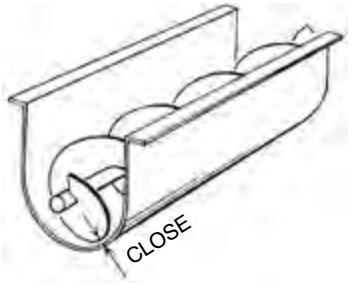
RECTANGULAR TROUGH is made with a flat bottom and can be formed from a single sheet or with sides and bottom of separate pieces. This type trough is frequently used in handling abrasive materials capable of forming a layer of material on the bottom of the trough. The material thus moves on itself, protecting the trough from undue wear. Also in handling hot materials, the material will form its own internal insulation with



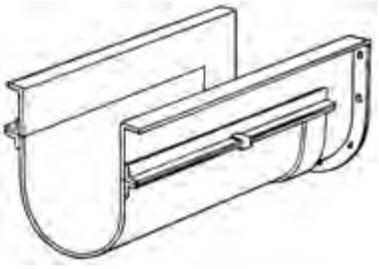
TUBULAR TROUGH is furnished in either solid tube construction or split tube construction with flanges for bolting or clamping the two halves together. This trough is a complete tube enclosure and is used for weather-tight applications, for loading to full cross sections, and for inclined or vertical applications where fall back necessitates the housing to operate at a full loading.

*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

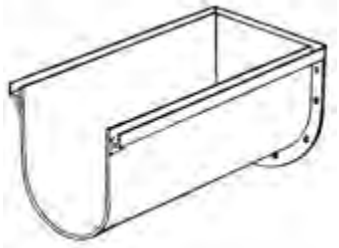
Trough



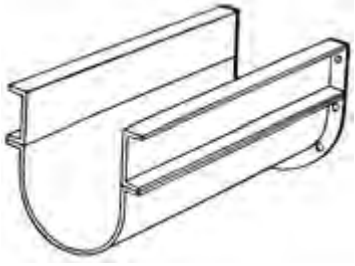
CLOSE CLEARANCE TROUGH is of conventional construction except with a closer clearance between the outside of the conveyor screw and the inside of the trough. This type trough leaves less material in the trough and is often used when a greater clean-out of conveyed material is required. This type trough also minimizes fall back of certain materials in an inclined conveyor.



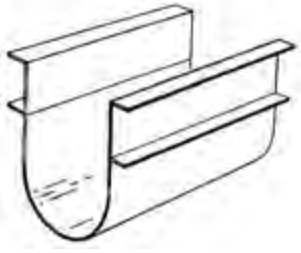
DROP BOTTOM TROUGH is equipped with either a bolted or clamped and completely removable drop bottom, or hinged on one side with bolts or clamps on the opposite side. This design offers ease in cleaning of the trough and screw conveyor, and is often used when handling food products where internal inspection and cleaning of the screw conveyor is necessary.



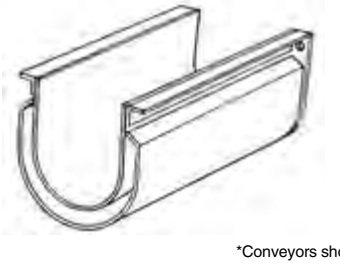
DUST SEAL TROUGH (Sometimes referred to as SAND SEAL TROUGH) has Z-bar top flanges and formed channel cross members making a continuous channel pocket around the top of the trough into which a special flanged cover is set. The channel is filled with sand or dust of the product being conveyed, thus creating an effective seal against the escape of dust from within the conveyor.



CHANNEL SIDE TROUGH is made with separate detachable trough bottoms, bolted or clamped to formed or rolled steel channels. The channels may be of any reasonable length to span widely spaced supports. This type of trough is occasionally used for easy replacement of trough bottoms, and to facilitate repairs when conveyor screw and hangers are not accessible from the top. The channel side trough can also be used without a bottom for filling bins and hoppers.



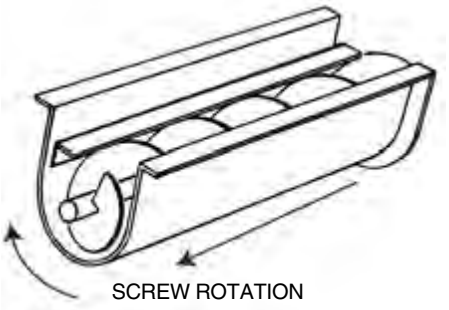
HIGH SIDE TROUGH is of conventional construction except that the trough sides extend higher than standard from the center line to the top of the trough. This type trough is frequently used in conveying materials which mat together and travel as a mass on top of the conveyor screw. High side trough will confine this type material in the trough, but still affords the necessary expansion room.



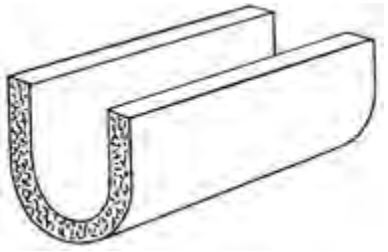
JACKETED TROUGH consists of a formed jacket continuously welded to the trough. This type trough is widely used for heating, drying or cooling of materials. Pipe connections are provided for supply and discharge of the heating or cooling media. Special construction must be provided for higher pressures.

*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

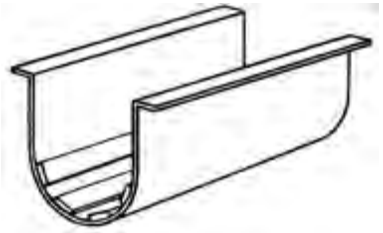
Trough



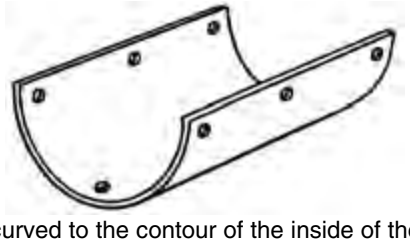
HOLD DOWN ANGLES are used to hold the conveyor screw in the trough when the conveyor is operated without intermediate hangers or when chunks of material may tend to ride under the conveyor screw and push it up. The angle is constructed of formed or regular angle iron and is attached to one side of the full length of trough far enough above the conveyor screw to allow approximately one-half inch clearance between the bottom angle and the conveyor screw.



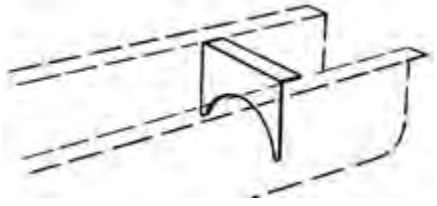
INSULATED CONVEYOR TROUGH is used when handling hot or cold materials. There are many types of insulation materials and arrangements that can be used.



RIDER BARS are flat bars one to one and one-half inches in width running part of length or full length of the trough. Two or four bars are normally used and are spaced an equal distance apart along the curved bottom of the trough. The bars are used to support the conveyor screw to prevent wear on the trough when internal hanger bearings are not used. Rider bars are sometimes referred to as Rifling Bars when they are used to assist in conveying materials that tend to stick to the conveyor screw and rotate with it.

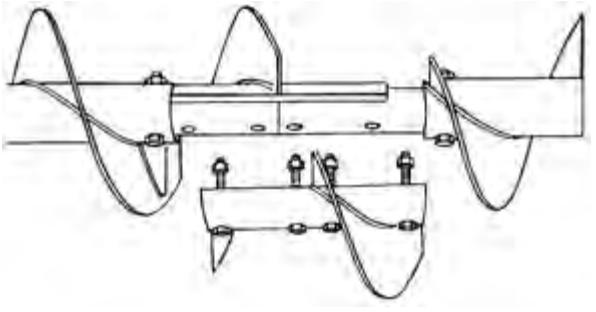


SADDLE TYPE WEAR PLATES are plates curved to the contour of the inside of the trough and of slightly less thickness than the clearance between the conveyor screw and trough. The plates are made in lengths of approximately one and one-half times the pitch of the conveyor screw and are normally spaced at intervals equal to the distance between hangers. They are used to support the conveyor screw to prevent damage to the trough when internal hanger bearings are not used.



STRIKE OFF PLATE (Shroud Baffle) is a single plate bolted vertically to the upper portion of the trough and is cut out to the contour of the screw. This plate is used to regulate the flow of material from an inlet by preventing flooding across the top of the conveyor screw.

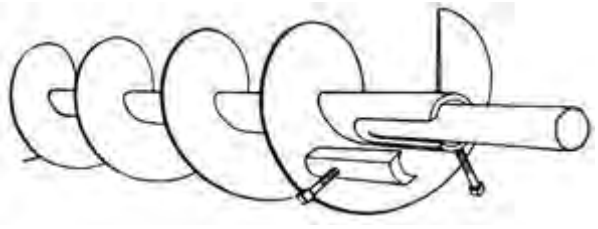
*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.



SPLIT FLIGHT COUPLINGS permit installation or removal of individual sections of conveyor screw without disturbing adjoining sections. When they are installed on both sides of each hanger, sections of screw can be removed without disturbing the hangers. These must be furnished complete with matching shafts.



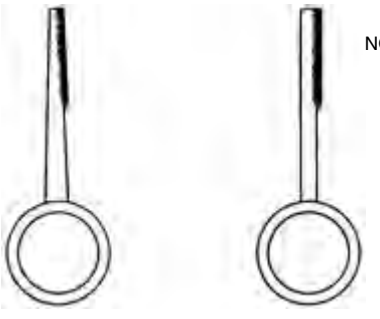
WEAR FLIGHTS, or wearing shoes, attached with countersunk bolts to the carrying side of conveyor screw flights are used for handling highly abrasive materials and are easily replaceable.



QUICK DETACHABLE KEY CONVEYOR SCREW is designed for easy removal from the conveyor trough. Each section of screw is provided with a removable key located at one end of the pipe. By removing this key, a conveyor screw section and coupling with a hanger can be quickly removed without disturbing other components.

Width of Application Chart

Screw Diameter	Standard Width of Application
6	1
9	1½
12	2
14	2
16	2½
18	2½
20	3
24	3

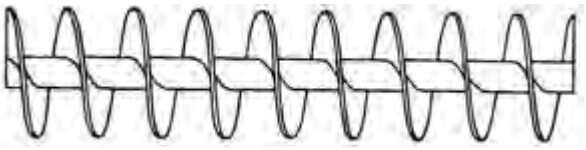


Helicoid Sectional

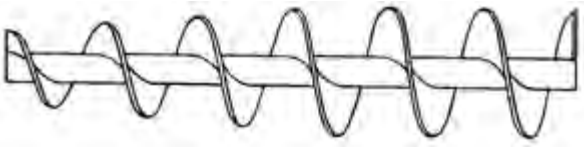
NOTE: Weld-on type normally 1/16" thick.

HARD SURFACED FLIGHTS sometimes called abrasive resistant conveyors can be furnished using one of many hardsurfacing processes. The hard surfaced area is normally an outer portion of the face of the flight on the carrying side of the conveyor screw. This process is applied to the conveyor screw to resist wear when handling highly abrasive materials.

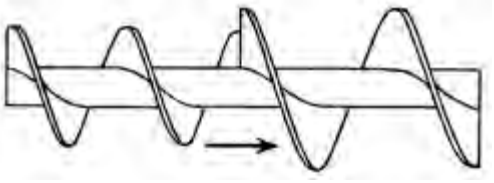
Conveyor Screws



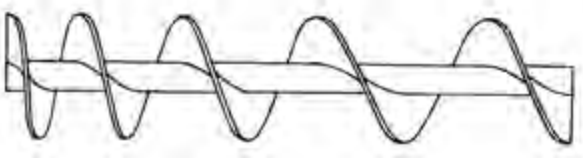
SHORT PITCH CONVEYOR SCREWS are of regular construction except that the pitch of the flights is reduced. They are recommended for use in inclined conveyors of 20 degrees slope and over, and are extensively used as feeder screws, and for controlling cross sectional loading in the balance of a conveyor when short pitch is used at the inlet opening.



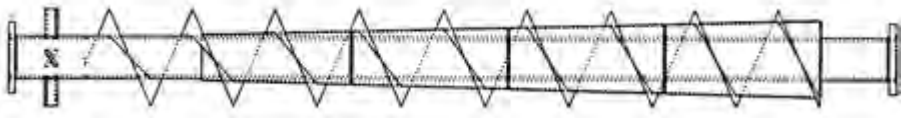
TAPERING FLIGHT CONVEYOR SCREWS are frequently used as feeder screws for handling friable lumpy material from bins or hoppers and also to draw the material uniformly from the entire length of the feed opening.



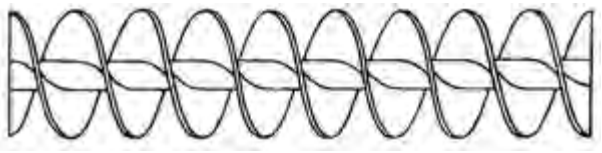
STEPPED DIAMETER CONVEYOR SCREWS consist of flights of different diameters, each with its regular pitch, mounted in tandem on one pipe or shaft. They are frequently used as feeder screws, with the smaller diameter located under bins or hoppers to regulate the flow of material.



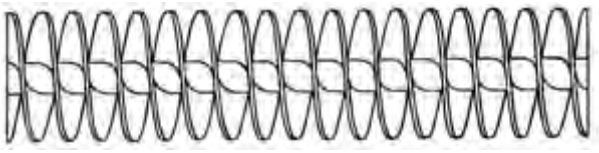
STEPPED PITCH CONVEYOR SCREWS are screws with succeeding single or groups of flights increasing in pitch and are used as feeder screws to draw free-flowing materials uniformly from the entire length of the feed opening.



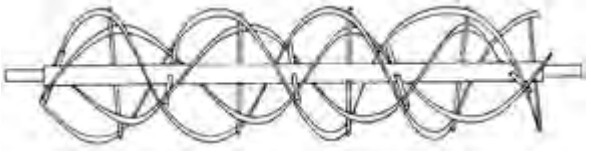
CONE SCREW to withdraw material evenly from a hopper or bin. Constant pitch reduces bridging. Requires less start-up horsepower.



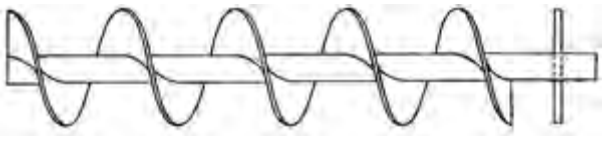
DOUBLE FLIGHT CONVEYOR SCREWS of regular pitch promote a smooth gentle flow and discharge of certain materials. Double flight can be used at hanger points only, for smooth flow past hangers.



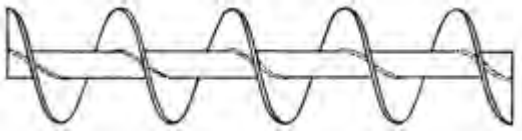
DOUBLE FLIGHT SHORT PITCH CONVEYOR SCREWS assure more accurate regulation of feed and flow in screw feeders and effectively deter flushing action of fluid materials.



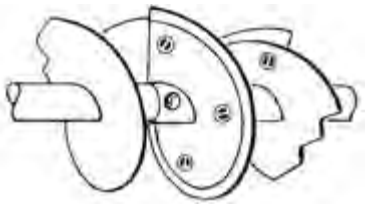
MULTIPLE RIBBON FLIGHT CONVEYOR SCREWS. This type of screw consists of two or more ribbon flights of different diameters and opposite hand, mounted one within the other on the same pipe or shaft by rigid supporting lugs. Material is moved forward by one flight and backward by the other, thereby inducing positive and thorough mixing. (Made per customer specifications.)



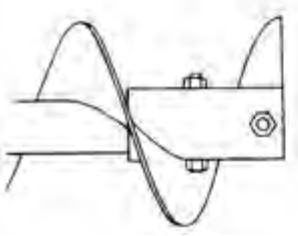
BREAKER PINS. The breaker pin is a rod approximately the same in length as the diameter of the conveyor screw and is inserted through the diameter of the pipe over the discharge to help break up lump materials.



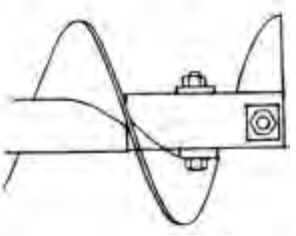
CONTINUOUS WELDING of the conveyor screw flight to the pipe can be furnished with welding one side or both sides. This welding is added to prevent stripping of flight from the pipe under extreme loads. The continuous welding can also be added to fill the slight crack between the flight and pipe for sanitary purposes.



BEARING SHOES (Nylon, Teflon, Brass, and other bearing type materials.) Bearing shoes are used in place of internal bearings and are bolted to the conveyor screw. They are made from bearing type material, and when attached to the conveyor screw flight, the bearing shoe projects beyond the outer edge of flighting and rotates with the screw thereby preventing metal to metal contact between the conveyor screw and the trough. The bearing shoes extend around the helix slightly more than one pitch and are spaced along the screw at approximately the same intervals as internal bearings.

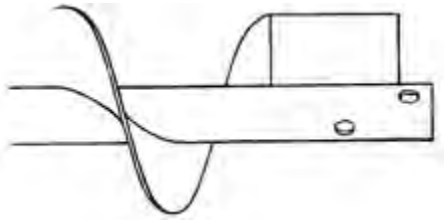


External Sleeves

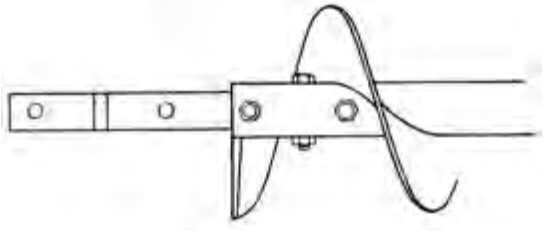


Bolt Pads

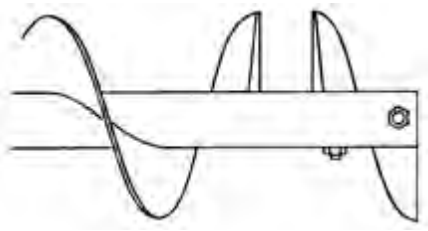
EXTERNAL SLEEVES OR BOLT PADS are added to the outside diameter of conveyor screw pipe at the end where the couplings are attached to reinforce the pipe at the bolt area.



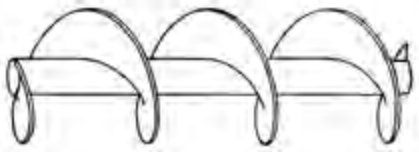
KICKER BARS are flat bars projecting from the conveyor screw pipe extending to the outside diameter of the screw over the discharge spout and are used to assist the discharge of materials.



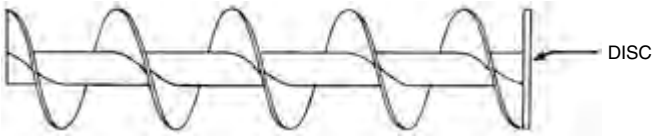
MULTIPLE HOLE DRILLING of the conveyor screw pipe and shafts will increase the torque rating of the bolted sections.



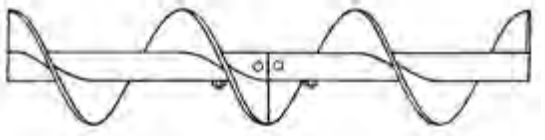
OPPOSITE HAND FLIGHTS are short sections (approximately one-half pitch) of flight added to the conveyor screw beyond the discharge point and are the opposite hand of the rest of the screw. This flight opposes the flow of material that tends to carry past the discharge spout and pack at the end plate and forces the material back to the spout for discharge.



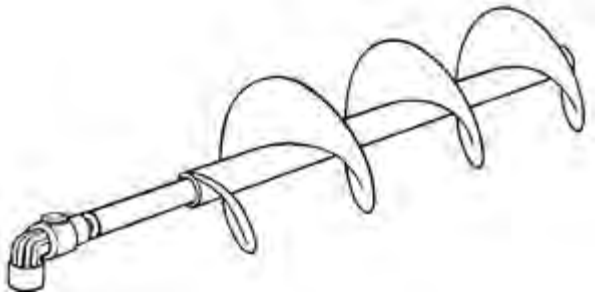
ODD DIAMETER CONVEYOR SCREW is of conventional construction except oversize or undersize in diameter. This type conveyor screw is used to provide a close clearance or wide clearance between the screw and trough and enable the use of standard component parts.



END DISC ON CONVEYOR SCREW. This disc is welded flush with the end of the conveyor screw pipe and is the same diameter as the screw. It rotates with the conveyor screw and assists in relieving the thrust of the conveyed material against the end plate shaft seal.



CLOSE COUPLED CONVEYOR SCREW. This type screw forms a continuous helix when two or more conveyor screws are close coupled by drilling the shaft of each to align the connecting flight.

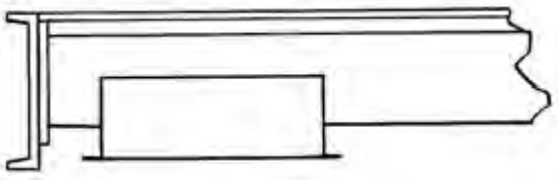


ROTARY JOINTS FOR COOLING AND HEATING are attached to one or both end shafts to provide a flow of heating or cooling media through the conveyor screw pipe.

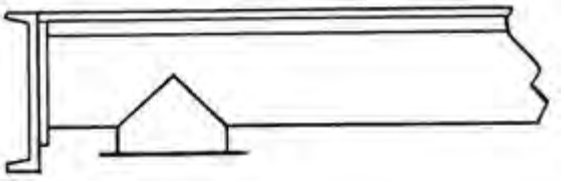
Discharges



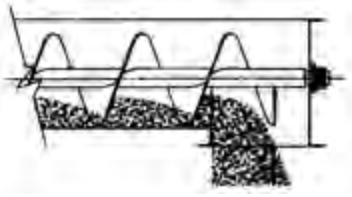
ANGULAR DISCHARGES can be furnished when necessary for certain applications. This type discharge is normally used on inclined conveyors when it is necessary that the discharge be parallel to ground level, or at other times when material must be discharged to one side.



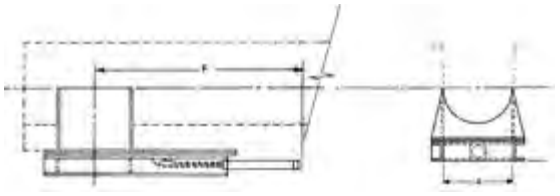
LONGER THAN STANDARD DISCHARGE SPOUTS are approximately one and one-half times the length of the standard discharge spouts. This discharge is used with materials hard to discharge due to the material trying to convey past the discharge opening. This discharge is also used when operating high speed conveyors.



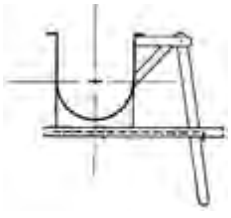
ROUND DISCHARGE SPOUTS are furnished where required for attaching tubular attachments, or when one conveyor discharges into another conveyor at an angle other than a right angle. By using a round discharge and round inlet the connection is easily made.



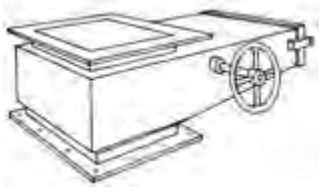
FLUSH END DISCHARGE SPOUTS are furnished with a special trough end plate constructed on trough end side of the spout. This type spout offers a complete discharge without a ledge at the end plate for material build up. It is used primarily in handling food products, where infestation may occur.



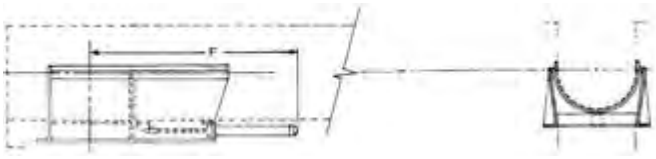
AIR OPERATED FLAT SLIDE GATES are similar in action and purpose to rack and pinion gates. The gate movement is accomplished by an air cylinder. These gates are usually employed when remote control and automatic operation is desired.



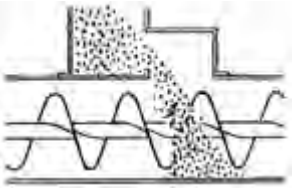
LEVER OPERATED GATES are a modification of standard slide discharges with a lever attached for opening and closing the gates. This attachment provides a leverage for ease of operation and a convenient means for quick opening and closing.



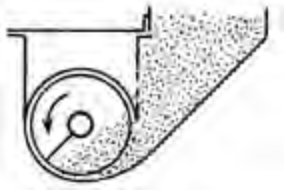
ENCLOSED DUST-TIGHT OR WEATHER-PROOF rack and pinion discharge spouts can be furnished in either flat or curved slide and are similar in construction to conventional rack and pinion slide gates except that the slide, rack, and pinion are fully enclosed in a housing.



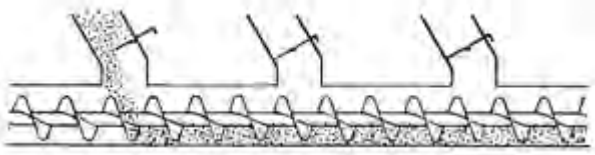
AIR OPERATED CURVED SLIDE GATES are similar to standard rack and pinion gates except they are operated with an air cylinder. The air operated gate is usually used for remote control and automatic operation. These gates can also be furnished in dust-tight or weather-proof construction with the cylinder and gate fully enclosed in the housing.



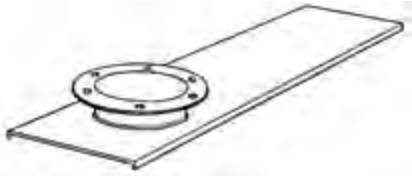
CUSHION CHAMBER INLETS (DEAD BED INLETS) serve the same purpose as the deflector plate inlet, but are constructed with a ledge that forms a cushion for materials fed into the conveyor.



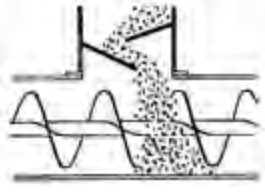
SIDE INLETS are equipped with a gate to furnish a means of regulating or stopping the inlet flow to relieve the conveyor screw from excessive material pressures. When using the side inlet, the screw rotation should be toward the inlet opening to assure a constant flow rate.



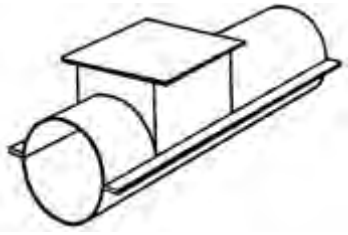
HAND SLIDE INLET GATES are normally used when multiple inlets are required. These inlets must be adjusted or closed manually to assure proper feed to the conveyor.



ROUND INLET SPOUTS are used for tubular attachments or when connecting the discharge of one conveyor to the inlet of another at other than a right angle. This type connection is easily made with round discharges and inlets.



DEFLECTOR PLATE INLETS are used when materials fall vertically into the inlet creating the possibility of impact damage or abrasion to the conveyor screw. The rectangular inlet is equipped with deflector plates, or baffles, that dampen the impact of the material in order to feed the conveyor more gently.



HANGER POCKETS are used with tubular trough, mounted on top of the tubular trough at hanger bearing points. The hanger pocket forms a U-shape section for a short length, allowing the use of standard conveyor hangers and providing easy access to the hanger.

INSTALLATION AND MAINTENANCE SECTION V

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Operation and Maintenance..... H-121
Hazardous Operations..... H-121
Warning & Safety Reminder H-122

SECTION V
General

All standard screw conveyor components are manufactured in conformity with Industry Standards. Special components are usually designed and manufactured to the particular job specifications.

Screw conveyors may be ordered either as complete units or by individual components. Complete units are normally shop assembled and then match marked and disassembled for shipment and field re-assembly. When components only are ordered, shipment is made as ordered, and these components must be sorted out and aligned in field assembly.

Because shop assembled screw conveyors are pre-aligned and match marked at the factory, they are easier to assemble in the field and require the minimum installation time. When individual components are ordered, more careful alignment and assembly are required. More time is required for field installation. Assembly bolts are not included with parts orders but are included with preassembled units.

Caution: All Martin Conveyors must be assembled and maintained in accordance with this section. Failure to follow these instructions may result in serious personal injury or property damage.

Installation

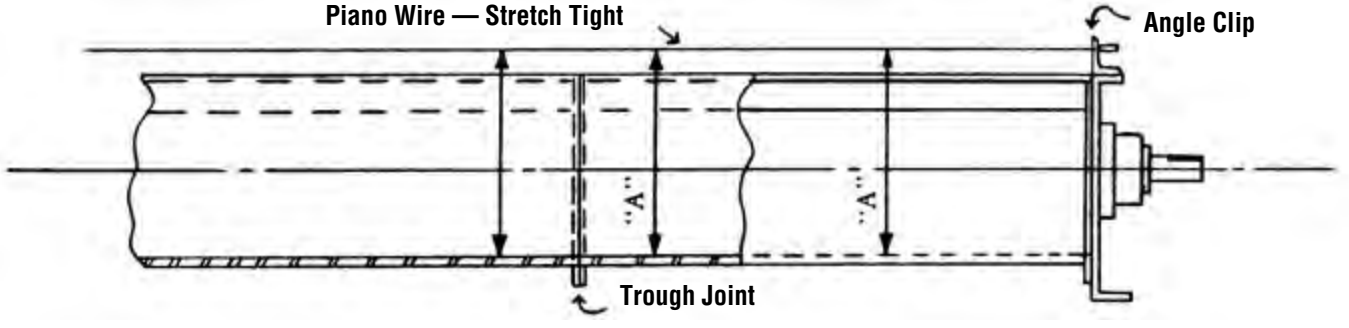
Receiving

Check all assemblies or parts with shipping papers and inspect for damage. Specifically check for dented or bent trough, bent flanges, bent flighting, bent pipe or hangers or damaged bearings. If any components are severely damaged in shipment, claims should be filed immediately with the carrier. NOTE: Handle Carefully! Fork lifts should have spreader bars to lift max. 24' lengths of assembled conveyors. Lift points should not exceed 10 - 12 feet.

Erection

For shop assembled conveyors, units are match marked and shipped in longest sections practical for shipment. Field assembly can be accomplished by connecting match marked joints, and in accordance with packing list, and/or drawing if applicable. In field erection, the mounting surfaces for supporting the conveyor must be level and true so there is no distortion in the conveyor. Shims or grout should be used when required. Check for straightness as assembly is made.

For conveyor assemblies purchased as parts or merchandise, assemble as follows: Place conveyor troughs in proper sequence with inlet and discharge spout properly located. Connect the trough flanges loosely. Do not tighten bolts. Align the trough bottom center-lines perfectly using piano wire (or equivalent) then tighten flange bolts. Tighten all anchor bolts.



Assembly of conveyor screws should always begin at the thrust end. If the unit does not require a thrust unit, assembly should begin at the drive end. If a thrust end is designated, assemble trough end and thrust bearing. Insert the end, or drive shaft, in the end bearing. Do not tighten set screws until conveyor assembly is completed.

Place the first screw section in the trough, slipping the end, or drive shaft, into the pipe end. Secure tightly with coupling bolts. Install so that conveyor end lugs are opposite the carrying side of the flight.

Place a coupling shaft into the opposite end of conveyor pipe. Tighten coupling bolts.

Insert coupling shaft into hanger bearing and clamp hanger to trough.

Assemble alternately, conveyor screws, couplings and hangers until all screws are installed.

1) **With Hangers:** Assemble screw section so that flighting at each end is approximately 180° from ends of flighting of adjacent sections. Also, adjust conveyor screw and thrust unit so that hangers are equally spaced between adjacent screws.
2) **Without Hangers:** (close coupled) Assemble screws so that flighting at adjoining ends of screw sections align to produce a continuous helix surface. (Note coupling holes have been drilled in assembly to allow for flight alignment.)

Remove hanger clamps and bolt hanger to trough with the bearing centered between conveyor screws.

Install trough covers in proper sequence. Properly locate inlet openings. Handle covers with reasonable care to avoid warping or bending.

Attach covers to trough with fasteners provided.

Install drive at proper location and in accordance with separate instructions or drawing provided.

Check screw rotation for proper direction of material travel after electrical connections have been made but before attempting to handle material. Incorrect screw rotation can result in serious damage to the conveyor and to related conveying and drive equipment.

If necessary, reconnect electrical leads to reverse rotation of conveyor and direction of material flow.

Operation

Lubricate all bearings and drives per service instructions. Gear reducers are normally shipped without lubricant. Refer to service instructions for lubrication.

In start-up of the conveyor, operate several hours empty as a break in period. Observe for bearing heat up, unusual noises or drive misalignment. Should any of these occur, check the following and take necessary corrective steps. (Non-lubricated hanger bearings may cause some noise.)

1) When anti-friction bearings are used, check for proper lubrication. Insufficient or excess lubricant will cause high operating temperatures.
2) Misalignment of trough ends, screws, hangers and trough end can cause excessive maintenance and poor life expectancy.
3) Check assembly and mounting bolts; tighten if necessary.

Do not overload conveyor. Do not exceed conveyor speed, capacity, material density or rate of flow for which the conveyor and drive were designed.

If the conveyor is to be inoperative for a prolonged period of time, operate conveyor until cleared of all material. This is particularly important when the material conveyed tends to harden or become more viscous or sticky if allowed to stand for a period of time.

It may be necessary to recenter hanger bearings after running material in conveyor.

Maintenance

Practice good housekeeping. Keep the area around the conveyor and drive clean and free of obstacles to provide easy access and to avoid interference with the function of the conveyor and drive.

Establish routine periodic inspections of the entire conveyor to ensure continuous maximum operating performance.

To replace conveyor screw section, proceed as follows:

1) Removal of a section, or sections, usually must proceed from the end opposite the drive. Make sure drive and electrical power are disconnected before starting to disassemble.
2) Remove the trough end, sections of screws, coupling shafts and hangers until all sections have been removed or until the damaged or worn section is reached and removed.
3) To reassemble follow the above steps in reverse order.
4) Quick detachable conveyor screws can be removed at intermediate locations without first removing adjacent sections.

Replacement parts can be identified from a copy of the original packing list or invoice.

The coupling bolt contains a lock nut that may become damaged when removed. It is recommended practice to replace them rather than re-use them when changing conveyor screw sections.

Hazardous Operations

Screw conveyors are not normally manufactured or designed to operate handling hazardous materials or in a hazardous environment.

Hazardous materials can be those that are explosive, flammable, toxic or otherwise dangerous to personnel if they are not completely and thoroughly contained in the conveyor housing. Special construction of screw and conveyor housing with gaskets and special bolted covers can sometimes be used for handling this type of material.

Special conveyors are not made or designed to comply with local, state or federal codes for unfired pressure vessels.

Warning & Safety Reminder

WARNING AND SAFETY REMINDERS FOR SCREW , DRAG , AND BUCKET ELEVATOR CONVEYORS

APPROVED FOR DISTRIBUTION BY THE SCREW CONVEYOR SECTION OF THE CONVEYOR EQUIPMENT MANUFACTURERS ASSOCIATION (CEMA)

It is the responsibility of the contractor, installer, owner and user to install, maintain and operate the conveyor, components and, conveyor assemblies in such a manner as to comply with the Williams-Steiger Occupational Safety and Health Act and with all state and local laws and ordinances and the American National Standards Institute (ANSI) B20.1 Safety Code.

In order to avoid an unsafe or hazardous condition, the assemblies or parts must be installed and operated in accordance with the following minimum provisions.

1. Conveyors shall not be operated unless all covers and/or guards for the conveyor and drive unit are in place. If the conveyor is to be opened for inspection cleaning, maintenance or observation, the electric power to the motor driving the conveyor must be LOCKED OUT in such a manner that the conveyor cannot be restarted by anyone; however remote from the area, until conveyor cover or guards and drive guards have been properly replaced.

2. If the conveyor must have an open housing as a condition of its use and application, the entire conveyor is then to be guarded by a railing or fence in accordance with ANSI standard B20.1.(Request current edition and addenda)

3. Feed openings for shovel, front loaders or other manual or mechanical equipment shall be constructed in such a way that the conveyor opening is covered by a grating. If the nature of the material is such that a grating cannot be used, then the exposed section of the conveyor is to be guarded by a railing or fence and there shall be a warning sign posted.

4. Do not attempt any maintenance or repairs of the conveyor until power has been LOCKED OUT.

5. Always operate conveyor in accordance with these instructions and those contained on the caution labels affixed to the equipment.

6. Do not place hands, feet, or any part of your body, in the conveyor.

7. Never walk on conveyor covers, grating or guards.

8. Do not use conveyor for any purpose other than that for which it was intended.

9. Do not poke or prod material into the conveyor with a bar or stick inserted through the openings.

10. Keep area around conveyor drive and control station free of debris and obstacles.

11. Eliminate all sources of stored energy (materials or devices that could cause conveyor components to move without power applied) before opening the conveyor.

12. Do not attempt to clear a jammed conveyor until power has been LOCKED OUT.

13. Do not attempt field modification of conveyor or components.

14. Conveyors are not normally manufactured or designed to handle materials that are hazardous to personnel. These materials which are hazardous include those that are explosive, flammable, toxic or otherwise dangerous to personnel. Conveyors may be designed to handle these materials. Conveyors are not manufactured or designed to comply with local, state or federal codes for unfired pressure vessels. If hazardous materials are to be conveyed or if the conveyor is to be subjected to internal or external pressure, manufacturer should be consulted prior to any modifications.

CEMA insists that disconnecting and locking out the power to the motor driving the unit provides the only real protection against injury. Secondary safety devices are available; however, the decision as to their need and the type required must be made by the owner-assembler as we have no information regarding plant wiring, plant environment, the interlocking of the screw conveyor with other equipment, extent of plant automation, etc. Other devices should not be used as a substitute for locking out the power prior to removing guards or covers. We caution that use of the secondary devices may cause employees to develop a false sense of security and fail to lock out power before removing covers or guards. This could result in a serious injury should the secondary device fail or malfunction.

There are many kinds of electrical devices for interlocking of conveyors and conveyor systems such that if one conveyor in a system or process is stopped other equipment feeding it, or following it can also be automatically stopped.

Electrical controls, machinery guards, railings, walkways, arrangement of installation, training of personnel, etc., are necessary ingredients for a safe working place. It is the responsibility of the contractor, installer, owner and user to supplement the materials and services furnished with these necessary items to make the conveyor installation comply with the law and accepted standards.

Conveyor inlet and discharge openings are designed to connect to other equipment or machinery so that the flow of material into and out of the conveyor is completely enclosed.

One or more warning labels should be visible on conveyor housings, conveyor covers and elevator housings. If the labels attached to the equipment become illegible, please order replacement warning labels from the OEM or CEMA.

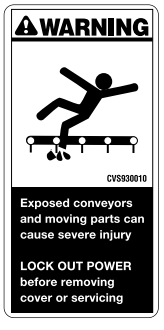
The Conveyor Equipment Manufacturers Association (CEMA) has produced an audio-visual presentation entitled “Safe Operation of Screw Conveyors, Drag Conveyors, and Bucket Elevators.” CEMA encourages acquisition and use of this source of safety information to supplement your safety program.





PROMINENTLY DISPLAY THESE SAFETY LABELS ON INSTALLED EQUIPMENT



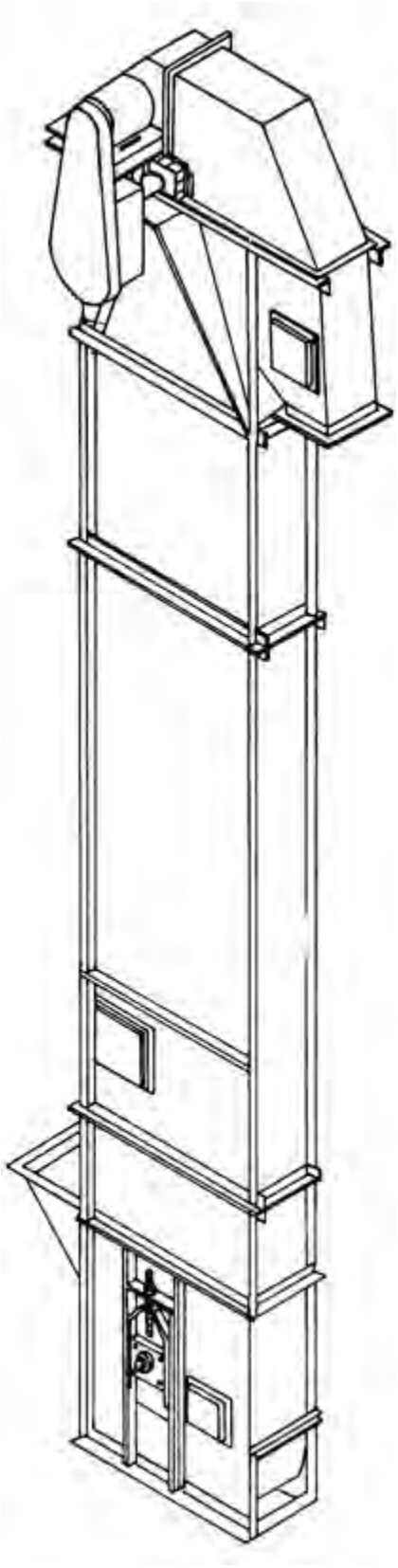






NOTICE: This document is provided by CEMA as a service to the industry in the interest of promoting safety. It is advisory only and it is not a substitute for a thorough safety program. Users should consult with qualified engineers and other safety professionals. CEMA makes no representations or warranties, either expressed or implied, and the users of this document assume full responsibility for the safe design and operation of equipment.

SECTION VI



BUCKET ELEVATORS SECTION VI

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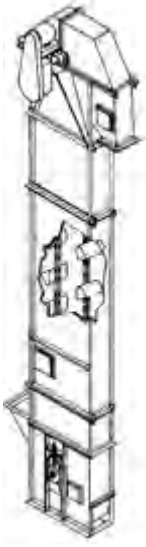
Introduction

Martin designs and manufactures various types of bucket elevators to efficiently handle most varieties of dry, free-flowing bulk materials. High design standards, quality manufacturing, the best possible service through many branch locations and an excellent distributor network assure many years of economical, trouble-free service.

This catalog is designed to make a preliminary selection of a bucket elevator. It shows the variety of elevators manufactured by Martin. Contact your local Martin Service Center or Martin distributor for a recommendation.

Types

Centrifugal Discharge



Centrifugal discharge type elevators are offered as: Series 100 (boot take up) and Series 200 (head take up). Either series is available with buckets mounted on chain or belt and will handle free-flowing materials with small to medium size lumps. The standard inlet chute and standard curved bottom plate direct the material into the buckets and reduce the "digging" action. The speed of the elevator is sufficient to discharge the material by centrifugal force.

Many types of drives and elevator materials of construction are available.

Continuous Discharge



Continuous discharge elevators are offered as: Series 700 (boot take up) and Series 800 (head take up). Either series is available with buckets mounted on chain or belt and will handle free-flowing material, sluggish material or materials that are abrasive. The closely spaced fabricated buckets, with extended sides, form a "chute" to direct material into the bucket. At the discharge, the bucket configuration allows the material to discharge by gravity over the back of the proceeding bucket.

Various materials of construction and thicknesses are available.

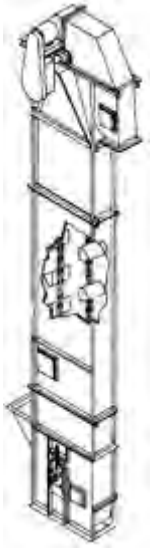
High-Speed Centrifugal Grain



Series 500 (double leg) and Series 400 (single leg) high-speed centrifugal discharge bucket elevators are specially designed to economically handle grain and other free-flowing materials. These elevators are *not* self-supporting; therefore, intermediate supports must be provided by others.

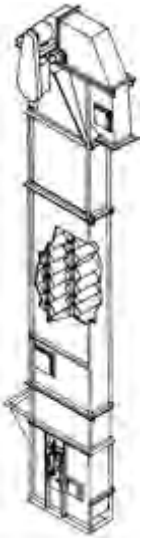
Although the charts in this catalog are based on one type of bucket, many other styles are available. For specific recommendations contact your local Martin Service Center or Martin Conveyor Division distributor for a recommendation.

Centrifugal Discharge - Mill Duty



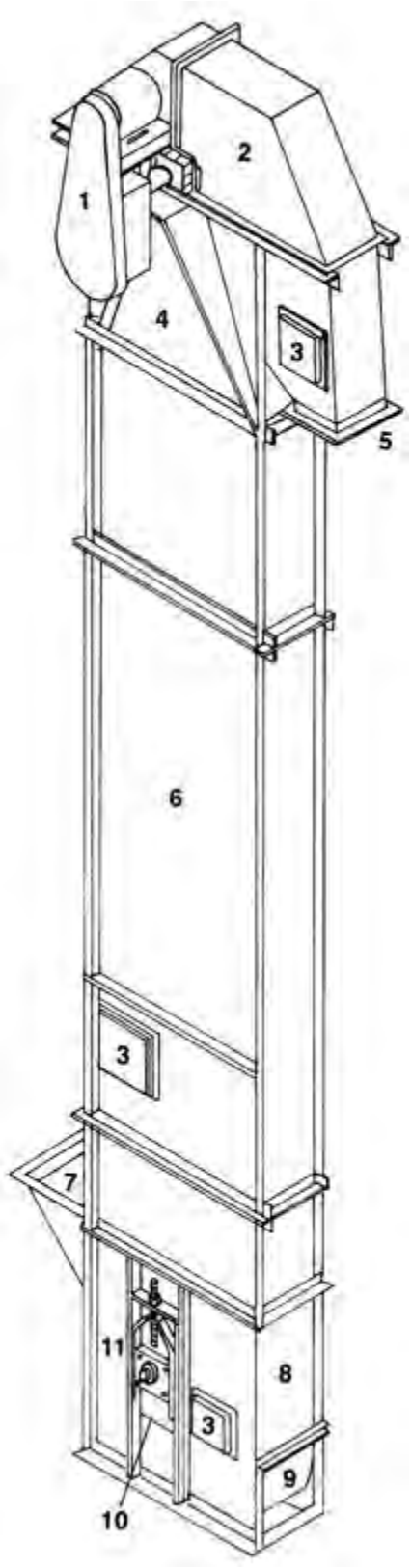
Centrifugal Mill Duty type elevators are offered with style "AC" centrifugal discharge buckets mounted on a single strand of chain, or on a belt. Chain units have a single row of buckets mounted on a single strand of chain. Belt type units may have a single or double row of buckets bolted to heavy duty rubber covered belting. Product is centrifugally discharged as material passes over the head wheel or pulley. A head mounted traction wheel is utilized in the chain type units, where practical. Lagged pulleys are standard for belt type units. Housing construction is heavy duty for severe service.

Continuous Discharge - Super Capacity



Continuous Discharge Super Capacity type elevators are offered with style "SC" continuous discharge buckets mounted between two strands of chain. These units are used where higher capacities, severe duty, or higher shaft centers are required. Housing construction is heavy duty for severe service.

Standard Features
Series 100 and Series 700



1. Shaft Mount Type Drive . . . . . Furnished as standard. Other types available. Backstops are required to prevent reverse rotation. Various types are available.

2. Split Hood . . . . . 14 gauge.

3. Inspection Door . . . . . Near side.

4. Head Section . . . . . Fabricated of 12 gauge steel with bearing pedestal structurally reinforced.

5. Discharge Spout (Style 1 shown) . . . Fabricated of 10 gauge plate steel with externally adjustable 4-ply belting throat lip (not shown). Style 2 (45°) available. Wear liners available.

6. Intermediate Section . . . . . Fixture welded 12 gauge casing continuously welded for dust tight construction. Sides are cross crimped for additional stiffness. Vertical corner angles are full length.

7. Inlet . . . . . Fabricated of 3⁄16" thick plate steel.

8. Clean Out Door . . . . . Bolted for easy removal.

9. Curved Bottom Plate . . . . . Reduces build-up in boot

10. Take-Up Ball Bearing Screw Type . . For positive take-up tension. Available with roller bearings. Internal gravity type also available.

11. Boot . . . . . Fabricated of 3⁄16" thick plate steel.

Elevator Number 100 thru 800 Series

Example — B43-139

Mounting	Bucket Size	Series	Unit No.
B	43	1	39
B = Belt C = Chain	43 = 4 × 3 64 = 6 × 4 85 = 8 × 5 106 = 10 × 6 Etc.	1 = 100 2 = 200 5 = 500 7 = 700 8 = 800	Unit 39

B43-139 is a belt (B) elevator with 4" × 3" (43) buckets, centrifugal discharge type with boot take up (Series 100), Unit 39. Specifications may be found on pages H-129.

Elevator Selection

General

To properly select a bucket elevator, the following factors must be determined:

1. **Volumetric Capacity** — in cubic feet per hour. Bucket elevators must be uniformly and continuously fed. The volumetric capacity used for selection must be the maximum the elevator will experience. Use Table 1-1 for conversions if necessary.
2. **Centers or Lift** — in feet
3. **Lump Size and Lump Class** — Lump size is the largest particle dimension, and lump class is the percentage these lumps represent of the whole.
4. **Material Characteristics** — See Material Classification Code Chart.
5. **Operating Conditions** — Conditions affecting operation include location (indoors, outdoors), number of hours per day operation, etc.

TABLE 1-1

To convert	To cubic feet per hour (CF or FT^3/HR)
Tons per hour (short) TPH	$CFH = \frac{TPH \times 2000}{\text{Density (in pounds per cubic foot; PCF or LBS/FT}^3\text{)}}$
Pounds per hour Lbs/hour	$CFH = \frac{\text{Pounds per hour}}{\text{Density (in pounds per cubic foot; PCF or LBS/FT}^3\text{)}}$
Bushels per hour BPH	$CFH = BPH \times 1.24$

Procedure

The following steps should be followed to select an elevator:

1. **Determine proper elevator series** — See material table for recommendation.
2. **Select Elevator Number** — For the series selected, refer to the Capacity chart, and select an elevator number for which the capacity in cubic feet per hour listed equals or exceeds the required volumetric capacity. If the required volumetric capacity of centers exceed those listed, contact the Martin for a recommendation.
3. **Check Lump Size/Lump Class** — Check actual lump size/lump class against that listed for the elevator number selected. If the actual lump size/lump class is larger than that listed, choose a larger elevator where the actual is equal to or less than that listed.
4. **Determine Horsepower Requirements** — Consult Martin.
5. **List Specifications** — Refer to capacity, horsepower and dimension charts for the elevator number selected. List the specifications for the preliminary selection of the elevator.

Contact your local Martin Service Center or Martin, distributor for a recommendation.

Material Classification Code Chart

Major Class	Material Characteristics Included		Code Description
Density	**Bulk Density, Loose**		**Actual Lbs/CF**
Size	Very Fine	No. 200 Sieve (.0029) and Under	A_{200}
		No. 100 Sieve (.0059") and Under	A_{100}
		No. 40 Sieve (.016") and Under	A_{40}
	Fine	No. 6 Sieve (.132") and Under	B_6
	Granular	½" and Under (6 Sieve to ½")	$C_{½}$
		3" and Under (½ to 3")	D_3
		7" and Under (3" to 7")	D_7
	Lumpy	16" and Under (0" to 16")	D_{16}
		Over 16" To Be Specified X = Actual Maximum Size	D_X
	Irregular	Stringy, Fibrous, Cylindrical, Slabs, Etc.	E
Flowability	Very Free Flowing		1
	Free Flowing		2
	Average Flowability		3
	Sluggish		4
Abrasiveness	Mildly Abrasive		5
	Moderately Abrasive		6
	Extremely Abrasive		7
Miscellaneous Properties or Hazards	Builds Up and Hardens		F
	Generates Static Electricity		G
	Decomposes — Deteriorates in Storage		H
	Flammability		J
	Becomes Plastic or Tends to Soften		K
	Very Dusty		L
	Aerates and Becomes a Fluid		M
	Explosiveness		N
	Stickiness — Adhesion		O
	Contaminable, Affecting Use		P
	Degradable, Affecting Use		Q
	Gives Off Harmful or Toxic Gas or Fumes		R
	Highly Corrosive		S
	Mildly Corrosive		T
	Hygroscopic		U
	Interlocks, Mats or Agglomerates		V
	Oils Present		W
	Very Light and Fluffy — May Be Windswept		Y
	Elevated Temperature		Z

Materials Table

Material	Density LBS/FT³	Material Code	Recommended Elevator Series*
Alfalfa Meal	14-22	B6-45WY	F, H
Almonds, Broken	27-30	C½-35Q	C, F, H
Almonds, Whole Shelled	28-30	C½-35Q	F
Alum, Fine	45-50	B6-35U	A, F
Alum, Lumpy	50-60	B6-25	A, F
Alumina	55-65	B6-27MY	G
Aluminum Chips, Dry	7-15	E-45V	F
Aluminum Oxide	60-120	A100-17M	F
Ashes, Coal, Dry — 3"	35-40	D3-46T	C
Asphalt, Crushed — ½"	45	C½-45	A, C, F
Bakelite, Fine	30-45	B6-25	F
Baking Powder	40-55	A100-35	F
Bauxite, Crushed — 3"	75-85	D3-36	A, C, F
Beans, Castor, Whole Shelled	36	C½-15W	A, C, F, H
Beans, Navy, Dry	48	C½-15	A, C, F, H
Bentonite, Crude	34-40	D3-45X	A, C
Bentonite — 100 Mesh	50-60	A100-25MXY	A, C
Boneblack	20-25	A100-25Y	F
Bonemeal	50-60	B6-35	A, C
Bones, Crushed	35-50	D3-45	A, C, F, H
Bones, Ground	50	B6-35	A, C, F, H
Borax, Fine	45-55	B6-25T	A, C
Bran, Rice-Rye-Wheat	16-20	B6-35NY	A, C
Brewer's Grain, spent, dry	14-30	C½-45	A, C
Brewer's Grain, spent, wet	55-60	C½-45T	A, C
Buckwheat	37-42	B6-25N	E
Calcium Oxide (See Lime, unslaked)	—	—	—
Cast Iron, Chips	130-200	C½-45	F
Cement, Clinker	75-95	D3-36	A, F
Cement, Portland	94	A100-26M	A, F
Chalk, Crushed	75-95	D3-25	A, F
Chalk, Pulverized	67-75	A100-25MXY	A, F
Charcoal, Lumps	18-28	D3-45Q	F
Cinders, Coal	40	D3-36T	A, F
Clay, Brick, Dry, Fines	100-120	C½-36	B
Coal, Anthracite, Sized — ½"	49-61	C½-25	A, F
Coal, Bituminous, Mined, Slack	43-50	C½-45T	A, F
Coffee, Green Bean	25-32	C½-25PQ	A, F
Coffee, Roasted Bean	20-30	C½-25PQ	A, F
Coke, Breeze	25-35	C½-37	B, D
Coke, Loose	23-35	D7-37	D
Coke, Petrol, Calcined	35-45	D7-37	D
Copra, Cake, Ground	40-45	B6-45HW	A, C, F, G
Copra, Cake, Lumpy	25-30	D3-35HW	A, C, F
Copra, Lumpy	22	E-35HW	A, C, F
Copra, Meal	40-45	B6-35HW	A, C, F, G
Cork, Granulated	12-15	C½-35JY	F, H
Corn, Cracked	40-50	B6-25P	F, H
Corn Germ	21	B6-35PY	A, C
Corn Grits	40-45	B6-35P	A, C
Cornmeal	32-40	B6-35P	A, C
Corn Shelled	45	C½-25	E
Corn Sugar	30-35	B6-35PU	A, C
Cottonseed, Cake, Lumpy	40-45	D7-45HW	A, C
Cottonseed, Dry, Delinted	22-40	C½-25X	B, D
Cottonseed, Dry, Not Delinted	18-25	C½-45XY	B, D
Cottonseed, Hulls	12	B6-35Y	F, G
Cottonseed, Meal, Extracted	35-40	B6-45HW	A, C
Cottonseed, Meats, Dry	40	B6-35HW	A, C
Distiller's Grain, Spent Dry	30	B6-35	A, C
Dolomite, Crushed	80-100	C½-36	A, F
Ebonite, Crushed	63-70	C½-35	F
Feldspar, Ground	65-80	A100-37	A, C, F,

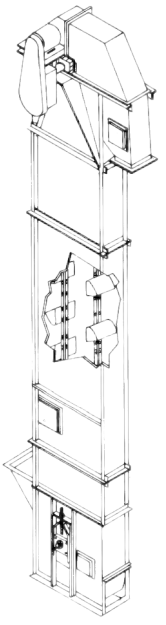
Material	Density LBS/FT³	Material Code	Recommended Elevator Series*
Feldspar, Powder	100	A200-36	F, H
Flaxseed	43-45	B6-35X	E
Flaxseed Cake (Linseed Cake)	48-50	D7-45W	C
Flaxseed Meal (Linseed Meal)	25-45	B6-45W	A, C
Fuller's Earth, Dry, Raw	30-40	A40-25	B, D
Fuller's Earth, Oily, Spent	60-65	C½-450W	B, D
Glass, Batch	80-100	C½-37	B, D
Granite, Fine	80-90	C½-27	F
Gypsum, Calcined	55-60	B6-35U	A, C, F, H
Gypsum, Calcined, Powdered	60-80	A100-35U	A, F
Gypsum, Raw — 1"	70-80	D3-25	F
Hops, Spent, Dry	35	D3-35	A, C
Hops, Spent, Wet	50-55	D3-45V	A, C
Ice, Crushed	35-45	D3-35Q	A, F
Ilmenite Ore	140-160	D3-37	A, C, F, G
Lime, Ground, Unslaked	60-65	B6-35U	A, C, F, G
Lime, Hydrated	40	B6-35LM	F
Lime, Pebble	53-56	C½-25HU	A, F
Limestone, Agricultural	68	B6-35	A, C, F, H
Limestone, Crushed	85-90	DX-36	F, H
Malt, Dry, Ground	20-30	B6-35NP	A, C
Malt, Meal	36-40	B6-25P	A, C
Malt, Dry Whole	20-30	C½-35N	A, C
Marble, Crushed	80-95	B6-37	F
Milk, Malted	27-30	A40-45PX	A
Oats	26	C½-25MN	E
Oats, Rolled	19-24	C½-35NY	A, C
Oxalic Acid Crystals — Ethane Diacid Crystals	60	B6-35QS	B, D
Phosphate Rock, Broken	75-85	DX-36	A, C, F, H
Phosphate Rock, Pulverized	60	B6-36	A, C, F, H
Potash (Muriate) Dry	70	B6-37	A, C, F
Pumice — ⅛"	42-48	B6-46	F
Rice, Bran	20	B6-35NY	E
Rice, Grits	42-45	B6-35P	A, C
Rice, Hulled	45-49	C½-25P	E
Rye	42-48	B6-15N	E
Salt Cake, Dry Coarse	85	B6-36TU	A, C, F, H
Salt, Dry Fine	70-80	B6-36TU	F, H
Sand Dry Bank (Damp)	110-130	B6-47	B, G
Sand Dry Bank (Dry)	90-110	B6-37	B, G
Sand Foundry (Shake Out)	90-100	D3-37Z	B, G
Shale, Crushed	85-90	C½-36	B, H
Slag, Blast Furnace Crushed	130-180	D3-37Y	F
Slate, Crushed — ½"	80-90	C½-36	F
Soda Ash, Heavy	55-65	B6-36	A, C
Soda Ash, Light	20-35	A40-36Y	F, H
Sodium Phosphate	50-60	A-35	A, F
Soybean, Cake	40-43	D3-35W	C
Soybean, Cracked	30-40	C½-36NW	A
Soybean, Flake, Raw	18-25	C½-35Y	A, C
Soybean, Flour	27-30	A40-35Mn	B, D
Soybean Meal, Cold	40	B6-35	A, C
Soybean Meal, Hot	40	B6-35T	A, C
Soybeans, Whole	45-50	C½-26NW	E
Sugar Beet, Pulp, Dry	12-15	C½-26	F, H
Sugar Beet, Pulp, Wet	25-45	C½-35X	F, H
Sugar, Raw	55-65	B6-35PX	A, C
Trisodium Phosphate, Granular	60	B6-36	A, F
Wheat	45-48	C½-25N	E
Wheat, Cracked	40-45	B6-25N	A, C
Wheat, Germ	18, 28	B6-25	A, C
Wood Chips, Screened	10-30	D3-45VY	B, D

***Elevator Series Designation**

A = Series 100 Chain
B = Series 100 Belt
C = Series 200 Chain
D = Series 200 Belt
E = Series 500 Belt
F = Series 700 Chain
G = Series 700 Belt
H = Series 800 Chain

Centrifugal Discharge Chain

Series 100 Chain (Series 200 is for Head Take-up)



Centrifugal discharge chain type elevators handle a variety of relatively free-flowing dry materials with small to medium lump sizes that are mildly to moderately abrasive.

Buckets

Capacities and horsepower listed are for style “AA” buckets. Style “A”, “AA-RB” and “Salem” can be furnished. Style “C” may also be used to handle wet or sticky materials. Consult the factory for a specific recommendation.

Chain

Centrifugal discharge chain type elevators are furnished with either combination chain for light to medium service or all steel (steel knuckle) chain for medium to severe service or when a higher chain working load is required.

#100 Chain Centrifugal Discharge Bucket Elevator

ELEVATOR	CAPACITY	BUCKETS				CHAIN			MAX. LUMP SIZE		NOM. CASING SIZE		HEAD SPROCKET			BOOT SPROCKET		
Number	Max. C.F.H.	Width	Proj.	Depth	Spacing	No.	Pitch	F.P.M.	100%	10%	Width	Depth	Number Teeth	Pitch Dia.	RPM	Number Te.eth	Pitch Diameter	Shaft Diameter
C43-101	73	4	2 3/4	3	9.25	977	2.308	125	1/2	1	8	18	10	7.50	63.7	10	7.50	1.5000
C64-102	280	6	4	4 1/4	13	C188	2.609	225	1/2	2 1/2	9 3/4	35	24	20.00	43	18	15.00	1.5000
C85-103	473	8	5	5 1/2	16	N102B	4.000	200	3/4	3	11 3/4	35	14	18.00	42.4	10	13.00	1.5000
C85-104	532	8	5	5 1/2	16	N102B	4.000	225	3/4	3	11 3/4	39	16	20.50	41.9	10	13.00	1.5000
C85-105	532	8	5	5 1/2	16	HSB102B	4.000	225	3/4	3	11 3/4	39	16	20.50	41.9	10	13.00	1.5000
C85-107	591	8	5	5 1/2	16	N102B	4.000	250	3/4	3	11 3/4	42	19	24.25	39.4	14	18.00	2.0000
C85-108	591	8	5	5 1/2	16	HSB102B	4.000	250	3/4	3	11 3/4	42	19	24.25	39.4	14	18.00	2.0000
C106-110	891	10	6	6 1/4	16	N102B	4.000	220	1	3 1/2	13 3/4	42	16	20.50	41	12	15.50	2.0000
C106-111	891	10	6	6 1/4	16	HSB102B	4.000	220	1	3 1/2	13 3/4	42	16	20.50	41	12	15.50	2.0000
C106-112	900	10	6	6 1/4	18	N110	6.000	250	1	3 1/2	13 3/4	48	13	25.00	38.2	11	21.25	2.0000
C106-113	900	10	6	6 1/4	18	HSB110	6.000	250	1	3 1/2	13 3/4	48	13	25.00	38.2	11	21.25	2.0000
C106-116	1013	10	6	6 1/4	16	N102B	4.000	250	1	3 1/2	13 3/4	48	19	24.25	39.4	16	20.50	2.0000
C127-117	1425	12	7	7 1/4	18	HSB110	6.000	250	1 1/4	4	15 3/4	48	13	25.00	38.2	9	17.50	2.0000
C127-120	1568	12	7	7 1/4	18	HSB110	6.000	275	1 1/4	4	15 3/4	54	16	30.75	34.2	12	23.25	2.4375
C147-123	1569	14	7	7 1/4	19	N111	4.760	240	1 1/4	4	17 3/4	48	16	24.50	37.4	12	18.25	2.4375
C127-119	1603	12	7	7 1/4	16	N102B	4.000	250	1 1/4	4	15 3/4	48	19	24.25	39.4	14	18.00	2.0000
C147-124	1656	14	7	7 1/4	18	HSB110	6.000	240	1 1/4	4	17 3/4	48	13	25.00	36.7	9	17.50	2.4375
C127-122	1763	12	7	7 1/4	16	N102B	4.000	275	1 1/4	4	15 3/4	54	24	30.50	34.4	19	24.25	2.4375
C147-127	1798	14	7	7 1/4	19	N111	4.760	275	1 1/4	4	17 3/4	54	20	30.50	34.4	16	24.25	2.4375
C147-126	1863	14	7	7 1/4	16	N102B	4.000	240	1 1/4	4	17 3/4	48	19	24.25	37.8	14	18.00	2.4375
C147-128	1898	14	7	7 1/4	18	HSB110	6.000	275	1 1/4	4	17 3/4	54	16	30.75	34.2	12	23.25	2.4375
C147-130	2135	14	7	7 1/4	16	N102B	4.000	275	1 1/4	4	17 3/4	54	24	30.50	34.4	19	24.25	2.4375
C168-131	2319	16	8	8 1/2	19	N111	4.760	240	1 1/2	4 1/2	19 3/4	48	16	24.50	37.4	11	17.00	2.4375
C168-132	2448	16	8	8 1/2	18	HSB110	6.000	240	1 1/2	4 1/2	19 3/4	48	12	23.00	39.9	9	17.50	2.4375
C168-133	2657	16	8	8 1/2	19	N111	4.760	275	1 1/2	4 1/2	19 3/4	54	20	30.50	34.4	14	21.25	2.4375
C168-134	2805	16	8	8 1/2	18	HSB110	6.000	275	1 1/2	4 1/2	19 3/4	54	16	30.75	34.2	11	21.25	2.4375
C188-136	2808	18	8	8 1/2	18	HSB110	6.000	240	1 1/2	4 1/2	21 3/4	48	12	23.00	39.9	9	17.50	2.4375
C188-138	3218	18	8	8 1/2	18	HSB110	6.000	275	1 1/2	4 1/2	21 3/4	54	16	30.75	34.2	11	21.25	2.4375
C208-140	3024	20	8	8 1/2	18	HSB110	6.000	240	1 1/2	4 1/2	23 3/4	48	12	23.00	39.9	9	17.50	2.4375
C208-142	3465	20	8	8 1/2	18	HSB110	6.000	275	1 1/2	4 1/2	23 3/4	54	16	30.75	34.2	11	21.25	2.4375
C248-146	4703	24	8	8 1/2	18	HSB833	6.000	275	1 1/2	4 1/2	28 3/4	54	16	30.75	34.2	11	21.25	2.437
C2410-150	6518	24	10	10 1/2	18	HSB833	6.000	275	2	4 1/2	30 3/4	60	16	30.75	34.2	11	21.25	2.4375

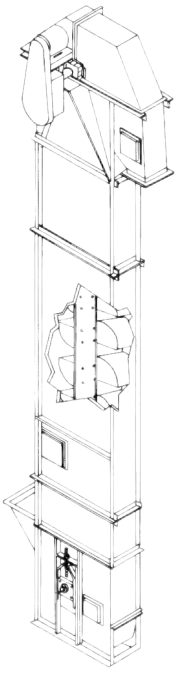
All Dimensions in inches.

Max. CFH capacity is at 75% bucket load.

Consult Martin for head shaft size and horsepower requirements.

Other chain may be substituted based on chain pull requirements.

Centrifugal Discharge Belt



Series 100 Belt (Series 200 is for Head Take-up)

Centrifugal discharge belt type elevators handle a variety of relatively free-flowing dry materials with small to medium lump sizes that are mildly, moderately or extremely abrasive.

Buckets

Capacities listed are for style “AA” buckets. Style “A”, “AA-RB” and “Salem” can be furnished. Style “C” may also be used to handle wet or sticky materials. Consult the factory for a specific recommendation.

Belt

Centrifugal discharge belt type elevators are furnished with 100% polyester carcass PVC belting or rubber covered ply belts specifically designed for elevator service. Many other types of belts and covers are available.

#100 Belt Centrifugal Discharge Bucket Elevator

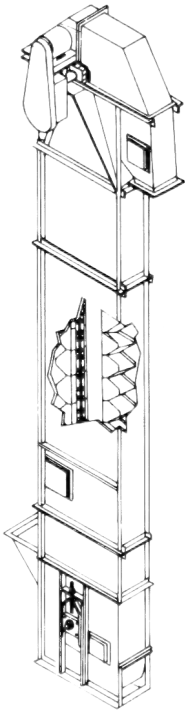
ELEVATOR	CAPACITY	BUCKETS				BELT		MAX. LUMP SIZE		NOM. CASING SIZE		HEAD PULLEY		BOOT PULLEY	
Number	Max.C.F.H.	Width	Proj.	Depth	Spacing	Width	F.P.M.	100%	10%	Width	Depth	Diameter	RPM	Diameter	Shaft Dia.
B43-139	95	4	2-3/4	3	8	5	140	1/4	1	8	18	8.00	62.9	8.00	1.5000
B64-141	293	6	4	4.25	13	7	235	1/4	2-1/2	11-3/4	35	20.00	43.8	16.00	1.5000
B64-140	324	6	4	4.25	13	7	260	1/2	2-1/2	11-3/4	39	24.00	40.5	16.00	1.5000
B85-142	543	8	5	5.5	16	9	230	3/4	3	13-3/4	39	20.00	42.9	14.00	2.0000
B85-143	591	8	5	5.5	16	9	250	3/4	3	13-3/4	42	24.00	39	16.00	2.0000
B106-144	911	10	6	6.25	16	11	225	1	3-1/2	15-3/4	42	20.00	41.9	16.00	2.0000
B106-145	1,013	10	6	6.25	16	11	250	1	3-1/2	15-3/4	48	24.00	39	20.00	2.0000
B127-146	1,425	12	7	7.25	18	13	250	1-1/4	4	17-3/4	48	24.00	39	20.00	2.4375
B127-147	1,596	12	7	7.25	18	13	280	1-1/4	4	17-3/4	54	30.00	35.1	24.00	2.4375
B147-148	1,691	14	7	7.25	18	15	245	1-1/4	4	19-3/4	48	24.00	38.2	20.00	2.4375
B147-149	1,932	14	7	7.25	18	15	280	1-1/4	4	19-3/4	54	30.00	35.1	24.00	2.4375
B168-150	2,550	16	8	8.5	18	17	250	1-1/2	4-1/2	22-3/4	48	24.00	39	20.00	2.4375
B168-152	2,856	16	8	8.5	18	17	280	1-1/2	4-1/2	22-3/4	54	30.00	35.1	24.00	2.4375
B188-160	2,925	18	8	8.5	18	19	250	1-1/2	4-1/2	24-3/4	48	24.00	39	20.00	2.4375
B208-164	3,150	20	8	8.5	18	21	250	1-1/2	4-1/2	26-3/4	48	24.00	39	20.00	2.4375
B188-162	3,276	18	8	8.5	18	19	280	1-1/2	4-1/2	24-3/4	54	30.00	35.1	24.00	2.4375
B208-166	3,528	20	8	8.5	18	21	280	1-1/2	4-1/2	26-3/4	54	30.00	35.1	24.00	2.4375
B127-146S	4,489	12	7	7.25	16	24	350	1-1/4	4	28	66	42.00	31.5	30.00	2.4375
B248-168	4,788	24	8	8.5	18	25	280	1-1/2	4-1/2	30-3/4	54	30.00	35.1	24.00	2.4375
B2410-170	6,636	24	10	10.5	18	25	280	1-1/2	4-1/2	30-3/4	60	30.00	35.1	24.00	2.4375

All Dimensions in inches.

Max. CFH capacity is at 75% bucket load.

Consult Martin for head shaft size and horsepower requirements.

Continuous Discharge Chain



Series 700 Chain (Series 800 is for Head Take-up)

Continuous discharge chain type elevators will handle various free-flowing dry or sluggish materials which contain medium to large lumps and are mildly, moderately, or extremely abrasive.

Buckets

Capacities listed are for a medium-front, non-overlapping style fabricated steel bucket. High front style buckets are available. Consult the factory for a specific recommendation.

Chain

Continuous discharge chain type elevators are furnished with combination chain for mild to moderate service or all steel (steel knuckle) chain for moderate to severe service or when a higher chain working load is required.

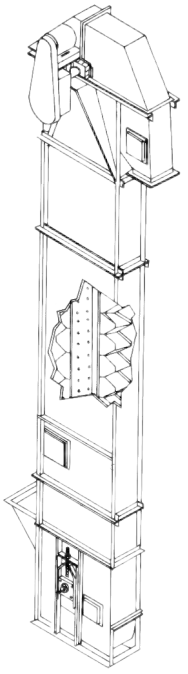
#700 Chain Continuous Discharge Bucket Elevator

ELEVATOR	CAPACITY	BUCKETS				CHAIN			MAX. LUMP SIZE		NOM. CASING SIZE		HEAD SPROCKET			BOOT SPROCKET		
Number	Max. C.F.H.	Width	Proj.	Depth	Spacing	No.	Pitch	F.P.M.	100%	10%	Width	Depth	Number Teeth	Pitch Dia.	RPM	Number Teeth	Pitch Diameter	Shaft Diameter
C85-766	567	8	5	7-3/4	8	N102B	4.000	120	3/4	2-1/2	11-3/4	39	16	20.50	22.4	11	14.25	1.5000
C85-767	567	8	5	7-3/4	8	HSB102B	4.000	120	3/4	2-1/2	11-3/4	39	16	20.50	22.4	11	14.25	1.5000
C105-768	729	10	5	7-3/4	8	N102B	4.000	120	3/4	2-1/2	13-3/4	39	16	20.50	22.4	11	14.25	2.0000
C105-769	729	10	5	7-3/4	8	HSB102B	4.000	120	3/4	2-1/2	13-3/4	39	16	20.50	22.4	11	14.25	2.0000
C107-770	1013	10	7	11-5/8	12	N110	6.000	125	1	3	13-3/4	48	13	25.00	19.1	10	19.50	2.0000
C107-771	1013	10	7	11-5/8	12	HSB110	6.000	125	1	3	13-3/4	48	13	25.00	19.1	10	19.50	2.0000
C127-772	1226	12	7	11-5/8	12	N110	6.000	125	1	3	15-3/4	48	13	25.00	19.1	10	19.50	2.4375
C127-773	1226	12	7	11-5/8	12	HSB110	6.000	125	1	3	15-3/4	48	13	25.00	19.1	10	19.50	2.4375
C147-774	1423	14	7	11-5/8	12	N110	6.000	125	1	3	17-3/4	48	13	25.00	19.1	10	19.50	2.4375
C147-775	1423	14	7	11-5/8	12	HSB110	6.000	125	1	3	17-3/4	48	13	25.00	19.1	10	19.50	2.4375
C128-776	1547	12	8	11-5/8	12	N110	6.000	125	1-1/4	4	15-3/4	48	13	25.00	19.1	9	17.50	2.4375
C128-777	1547	12	8	11-5/8	12	HSB110	6.000	125	1-1/4	4	15-3/4	48	13	25.00	19.1	9	17.50	2.4375
C148-778	1828	14	8	11-5/8	12	N110	6.000	125	1-1/4	4	17-3/4	48	13	25.00	19.1	9	17.50	2.4375
C148-779	1828	14	8	11-5/8	12	HSB110	6.000	125	1-1/4	4	17-3/4	48	13	25.00	19.1	9	17.50	2.4375
C168-781	2109	16	8	11-5/8	12	HSB110	6.000	125	1-1/2	4-1/2	19-3/4	48	13	25.00	19.1	9	17.50	2.4375
C188-783	2363	18	8	11-5/8	12	HSB110	6.000	125	1-1/2	4-1/2	22-3/4	48	13	25.00	19.1	9	17.50	2.4375
C208-785	2784	20	8	11-5/8	12	HSB833	6.000	125	1-1/2	4-1/2	24-3/4	48	13	25.00	19.1	9	17.50	2.4375
C248-787	3375	24	8	11-5/8	12	HSB833	6.000	125	1-1/2	4-1/2	28-3/4	48	13	25.00	19.1	9	17.50	2.4375
C2010-786	3881	20	10	11-5/8	12	HSB833	6.000	125	2	4-1/2	24-3/4	54	13	25.00	19.1	9	17.50	2.4375
C2410-788	4669	24	10	11-5/8	12	HSB833	6.000	125	2	4-1/2	28-3/4	54	13	25.00	19.1	9	17.50	2.4375

All Dimensions in inches.
Max. CFH capacity is at 75% bucket load.
Consult Martin for head shaft size and horsepower requirements.
Other chain may be substituted based on chain pull requirements.

Continuous Discharge Belt

Series 700 Belt (Series 800 is for Head Take-up)



Continuous discharge belt type elevators will handle various free-flowing dry or sluggish materials which contain medium to large lumps and are mildly, moderately, or extremely abrasive.

Buckets

Capacities listed are for a medium front, non-overlapping style fabricated steel bucket. High front style buckets are available. Consult the factory for a specific recommendation.

Belt

Continuous discharge belt type elevators are furnished with 100% polyester carcass PVC belting or rubber covered ply belts specifically designed for elevator service. Many other types of belt and covers are available.

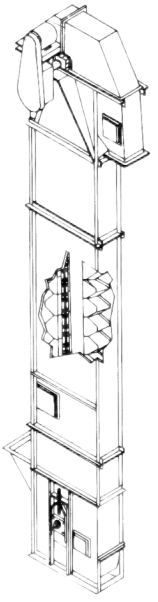
#700 Belt Continuous Discharge Bucket Elevator

ELEVATOR	CAPACITY	BUCKETS			BELT			MAX. LUMP SIZE		NOM. CASING SIZE		HEAD PULLEY		BOOT PULLEY	
Number	Max.C.F.H.	Width	Proj.	Depth	Spacing	Width	F.P.M.	100%	10%	Width	Depth	Diameter	RPM	Diameter	Shaft Dia.
B85-790	756	8	5	7-3/4	8	9	160	3/4	2-1/2	11-3/4	39	20.00	29.8	14.00	1.5000
B105-791	972	10	5	7-3/4	8	11	160	3/4	2-1/2	13-3/4	39	20.00	29.8	14.00	1.5000
B107-792	1296	10	7	11-5/8	12	11	160	1	3	13-3/4	48	24.00	24.9	20.00	2.0000
B127-793	1570	12	7	11-5/8	12	13	160	1	3	15-3/4	48	24.00	24.9	20.00	2.0000
B147-794	1822	14	7	11-5/8	12	15	160	1	3	17-3/4	48	24.00	24.9	20.00	2.0000
B128-795	1980	12	8	11-5/8	12	13	160	1-1/4	4	15-3/4	48	24.00	24.9	20.00	2.0000
B148-796	2340	14	8	11-5/8	12	15	160	1-1/4	4	17-3/4	48	24.00	24.9	20.00	2.4375
B168-797	2700	16	8	11-5/8	12	17	160	1-1/2	4-1/2	19-3/4	48	24.00	24.9	20.00	2.4375
B188-798	3024	18	8	11-5/8	12	19	160	1-1/2	4-1/2	22-3/4	48	24.00	24.9	20.00	2.4375
B208-720	3564	20	8	11-5/8	12	21	160	1-1/2	4-1/2	24-3/4	48	24.00	24.9	20.00	2.4375
B248-722	4320	24	8	11-5/8	12	25	160	1-1/2	4-1/2	28-3/4	48	24.00	24.9	20.00	2.4375
B2010-724	4968	20	10	11-5/8	12	21	160	1-1/2	4-1/2	24-3/4	54	24.00	24.9	20.00	2.4375
B2410-726	5976	24	10	11-5/8	12	25	160	1-1/2	4-1/2	28-3/4	54	24.00	24.9	20.00	2.4375

All Dimensions in inches.
Max. CFH capacity is at 75% bucket load.
Consult Martin for head shaft size and horsepower requirements.

Mill Duty Centrifugal Discharge Chain

Series MDC26 & MDC30 Chain



Mill Duty centrifugal discharge chain type bucket elevators handle a variety of relatively free flowing dry materials with small to medium lump sizes that are mildly to moderately abrasive. Extensively used in the cement industry.

Buckets

Capacities listed are for style “AC” buckets. Buckets may be vented for handling light, fluffy materials.

Chain

Mill Duty centrifugal discharge chain type bucket elevators are furnished with heavy duty steel knuckle chain for medium to severe service, selected for required work loads.

Mill Duty Chain Centrifugal Discharge Bucket Elevator

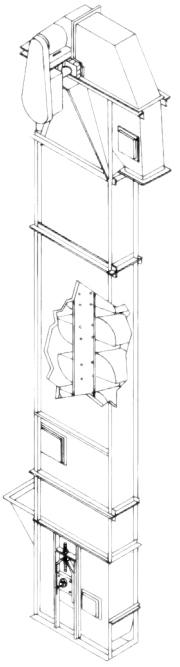
ELEVATOR	CAPACITY	BUCKETS				CHAIN			MAX. LUMP SIZE		NOM. CASING SIZE		HEAD SPROCKET			BOOT SPROCKET		
Number	Max. C.F.H.	Width	Proj.	Depth	Spacing	No.	Pitch	F.P.M.	100%	10%	Width	Depth	Number Teeth	Pitch Dia.	RPM	Number Teeth	Pitch Diameter	Shaft Diameter
MDC26 -128A	2226	12	8	8-1/2	18	HSB833	6.000	265	1-1/2	4	20	56	26	27.00	37.5	13	25.03	3.000
MDC26 -148A	2624	14	8	8-1/2	18	HSB833	6.000	265	1-1/2	4	22	56	26	27.00	37.5	13	25.03	3.000
MDC26 -168A	3021	16	8	8-1/2	18	HSB833	6.000	265	1-3/4	4-1/2	24	56	26	27.00	37.5	13	25.03	3.000
MDC26 -128B	3339	12	8	8-1/2	12	HSB833	6.000	265	1-1/2	4	20	56	26	27.00	37.5	13	25.03	3.000
MDC26 -148B	3935	14	8	8-1/2	12	HSB833	6.000	265	1-1/2	4	22	56	26	27.00	37.5	13	25.03	3.000
MDC26 -168B	4532	16	8	8-1/2	12	HSB833	6.000	265	1-3/4	4-1/2	24	56	26	27.00	37.5	13	25.03	3.000
MDC26-1810A	4929	18	10	10-1/2	18	HSB856	6.000	265	2	5	26	64	26	27.25	37.1	13	25.05	3.000
MDC30 - 168B	5387	16	8	8-1/2	12	HSB833	6.000	315	1-3/4	4-1/2	24	60	30	31.00	38.8	15	28.81	3.000
MDC26-2010A	5470	20	10	10-1/2	18	HSB856	6.000	265	2	5	28	64	26	27.25	37.1	13	25.05	3.000
MDC30-1810A	5859	18	10	10-1/2	18	HSB856	6.000	315	2	5	26	68	30	31.25	38.5	15	28.82	3.000
MDC30-2010A	6502	20	10	10-1/2	18	HSB856	6.000	315	2	5	28	68	30	31.25	38.5	15	28.82	3.000
MDC26-2410A	6758	24	10	10-1/2	18	HSB856	6.000	265	2	5	32	64	26	27.25	37.1	13	25.05	3.000
MDC26-1810B	7394	18	10	10-1/2	12	HSB859	6.000	265	2	5	26	64	26	28.00	36.2	13	25.05	3.000
MDC30-2410A	8033	24	10	10-1/2	18	HSB856	6.000	315	2	5	32	68	30	31.25	38.5	15	28.82	3.000
MDC26-2010B	8204	20	10	10-1/2	12	HSB859	6.000	265	2	5	28	64	26	28.00	36.2	13	25.05	3.000
MDC30-1810B	8789	18	10	10-1/2	12	HSB859	6.000	315	2	5	26	68	30	32.00	37.6	15	28.82	3.000
MDC30-2010B	9752	20	10	10-1/2	12	HSB859	6.000	315	2	5	28	68	30	32.00	37.6	15	28.82	3.000
MDC26-2410B	10136	24	10	10-1/2	12	HSB859	6.000	265	2	5	32	64	26	28.00	36.2	13	25.05	3.000
MDC30-2410B	12049	24	10	10-1/2	12	HSB859	6.000	315	2	5	32	68	30	32.00	37.6	15	28.82	3.000

All Dimensions in inches.
Max. CFH capacity is at 75% bucket load.
Consult Martin for head shaft size and horsepower requirements.
Other chain may be substituted based on chain pull requirements.
Internal gravity take-ups are standard.

Mill Duty Centrifugal Discharge Belt

Series MDB30 Belt

Mill Duty centrifugal discharge belt type bucket elevators handle high capacities of various relatively free flowing dry materials with small to medium lump sizes that are mildly to moderately abrasive.



Buckets

Capacities listed listed are for style “AC” buckets. Buckets may be vented for handling light, fluffy materials.

Belt

Mill Duty centrifugal discharge belt type bucket elevators are furnished with heavy duty rubber covered ply belts or 100% polyester carcass PVC belts specifically selected for elevator service.

Mill Duty Belt Centrifugal Discharge Bucket Elevator

ELEVATOR	CAPACITY	BUCKETS			BELT			MAX. LUMP SIZE		NOM. CASING SIZE		HEAD PULLEY		BOOT PULLEY	
Number	Max.C.F.H.	Width	Proj.	Depth	Spacing	Width	F.P.M.	100%	10%	Width	Depth	Diameter	RPM	Diameter	Shaft Dia.
MDB30-128A	2520	12	8	8-1/2	18	14	300	1-1/2	4	22	58	30.00	37.6	24.00	3.0000
MDB30-148A	2970	14	8	8-1/2	18	16	300	1-1/2	4	24	58	30.00	37.6	24.00	3.0000
MDB30-168A	3420	16	8	8-1/2	18	18	300	1-3/4	4-1/2	26	58	30.00	37.6	24.00	3.0000
MDB30-128B	3780	12	8	8-1/2	12	14	300	1-1/2	4	22	58	30.00	37.6	24.00	3.0000
MDB30-148B	4455	14	8	8-1/2	12	16	300	1-1/2	4	24	58	30.00	37.6	24.00	3.0000
MDB30-168B	5130	16	8	8-1/2	12	18	300	1-3/4	4-1/2	26	58	30.00	37.6	24.00	3.0000
MDB30-1810A	5580	18	10	10-1/2	18	20	300	2	5	28	64	30.00	37.6	24.00	3.0000
MDB30-2010A	6192	20	10	10-1/2	18	22	300	2	5	30	64	30.00	37.6	24.00	3.0000
MDB30-2410A	7650	24	10	10-1/2	18	26	300	2	5	34	64	30.00	37.6	24.00	3.0000
MDB30-1810B	8370	18	10	10-1/2	12	20	300	2	5	28	64	30.00	37.6	24.00	3.0000
MDB30-2010B	9288	20	10	10-1/2	12	22	300	2	5	30	64	30.00	37.6	24.00	3.0000
MDB30-2410B	11475	24	10	10-1/2	12	26	300	2	5	34	64	30.00	37.6	24.00	3.0000

All Dimensions in inches.

Max. CFH capacity is at 75% bucket load.

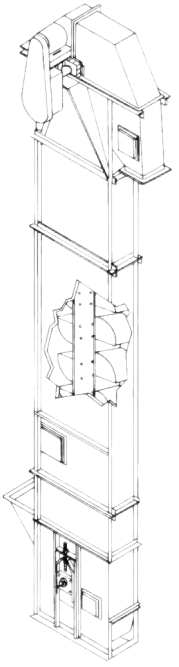
Consult Martin for head shaft size and horsepower requirements.

Screw take-ups are standard.

Double Row Mill Duty Centrifugal Discharge Belt

Series DRB30 Belt

Double Row Mill Duty centrifugal discharge belt type bucket elevators handle high capacities of various relatively free flowing dry materials with small to medium lump sizes that are mildly to moderately abrasive.



Buckets

Capacities listed are for a double row of style “AC” buckets. Buckets may be vented for handling light, fluffy materials.

Belt

Double Row Mill Duty centrifugal discharge belt type bucket elevators are furnished with heavy duty rubber covered ply belts or 100% polyester carcass PVC belts specifically selected for elevator service.

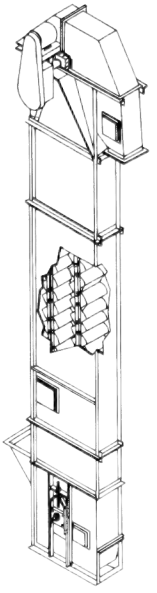
Double Row Mill Duty Belt Centrifugal Discharge Bucket Elevator

ELEVATOR	CAPACITY	BUCKETS			BELT			MAX. LUMP SIZE		NOM. CASING SIZE		HEAD PULLEY		BOOT PULLEY	
Number	Max.C.F.H.	Width	Proj.	Depth	Spacing	Width	F.P.M.	100%	10%	Width	Depth	Diameter	RPM	Diameter	Shaft Dia.
DRB30-128A	8316	12	8	8-1/2	10	26	275	1-1/2	4	34	58	30.00	34.4	30.00	3.000
DRB30-1210A	9207	12	10	10-1/2	12	26	275	1-1/2	4	34	62	30.00	34.4	30.00	3.000
DRB30-148A	9801	14	8	8-1/2	10	30	275	1-1/2	4	38	58	30.00	34.4	30.00	3.000
DRB30-1410A	10841	14	10	10-1/2	12	30	275	1-1/2	4	38	62	30.00	34.4	30.00	3.000
DRB30-168A	11286	16	8	8-1/2	10	34	275	1-3/4	4-1/2	42	58	30.00	34.4	30.00	3.000
DRB30-1610A	12499	16	10	10-1/2	12	34	275	1-3/4	4-1/2	42	62	30.00	34.4	30.00	3.000
DRB30-1810A	15345	18	10	10-1/2	12	38	275	2	4-1/2	46	62	30.00	34.4	30.00	3.000
DRB30-2010A	17028	20	10	10-1/2	12	42	275	2-1/4	4-3/4	50	62	30.00	34.4	30.00	3.000
DRB30-2410A	21038	24	10	10-1/2	12	50	275	2-1/2	5	58	62	30.00	34.4	30.00	3.000

All Dimensions in inches.
Max. CFH capacity is at 75% bucket load.
Consult Martin for head shaft size and horsepower requirements.
Screw take-ups are standard.

Super Capacity Continuous Discharge Chain

Series SC700 Chain



Super Capacity continuous discharge chain type bucket elevators handle high capacities of various free flowing dry materials ranging from fines to lumps, moderate to extremely abrasive, and those that tend to pack.

Buckets

Capacities listed are for style “SC” continuous fabricated steel buckets, mounted between two strands of chain.

Chain

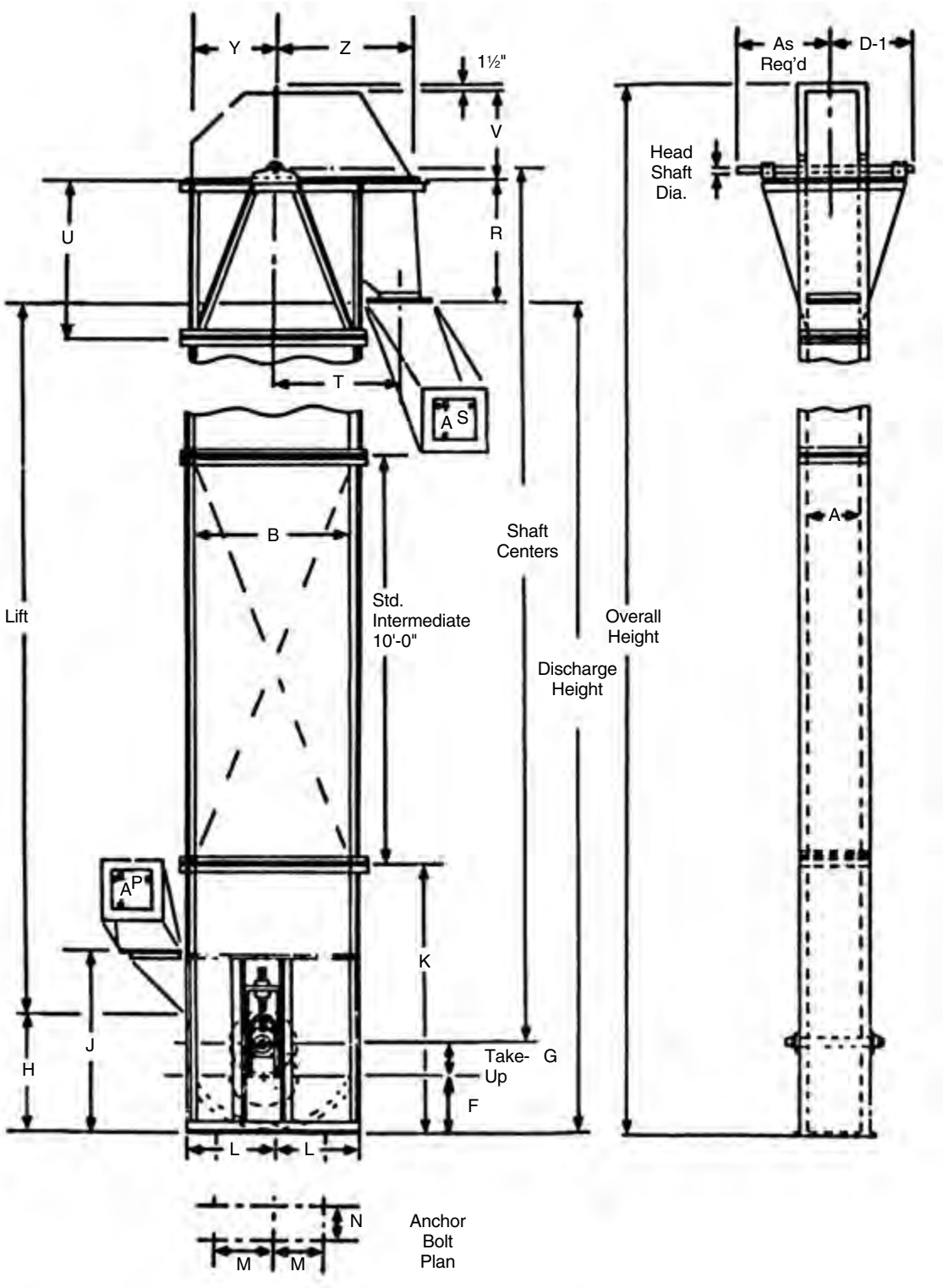
Super Capacity continuous discharge chain type bucket elevators are furnished with two strands of heavy duty steel knuckle chain for moderate to severe service, selected for required work loads.

Super Capacity Continuous Discharge Bucket Elevator

ELEVATOR	CAPACITY	BUCKETS				CHAIN			MAX. LUMP SIZE		NOM. CASING SIZE		HEAD SPROCKET			BOOT SPROCKET		
Number	Max. C.F.H.	Width	Proj.	Depth	Spacing	No.	Pitch	F.P.M.	100%	10%	Width	Depth	Number Teeth	Pitch Dia.	RPM	Number Teeth	Pitch Diameter	Shaft Diameter
SC700-128	2250	12	8.75	11.625	12	6102-1/2	12	100	2	4	26	56	8	31.36	12.2	6	23.96	2.4375
SC700-148	2700	14	8.75	11.625	12	6102-1/2	12	100	2	4	28	56	8	31.36	12.2	6	23.96	2.4375
SC700-168	3150	16	8.75	11.625	12	6102-1/2	12	100	2-1/2	6	30	56	8	31.36	12.2	6	23.96	3.0000
SC700-188	3600	18	8.75	11.625	12	6102-1/2	12	100	2-1/2	6	32	56	8	31.36	12.2	6	23.96	3.0000
SC700-208	4050	20	8.75	11.625	12	6102-1/2	12	100	2-1/2	6	34	56	8	31.36	12.2	6	23.96	3.0000
SC700-1612	5625	16	12.75	17.625	18	9124	9	125	3-1/2	8	33	68	12	34.77	13.7	12	34.77	3.0000
SC700-2012	7125	20	12.75	17.625	18	9124	9	125	3-1/2	8	37	68	12	34.77	13.7	12	34.77	3.0000
SC700-2412	8250	24	12.75	17.625	18	9124	9	125	3-1/2	8	41	68	12	34.77	13.7	12	34.77	3.0000
SC700-3012	10500	30	12.75	17.625	18	9124	9	125	3-1/2	8	47	68	12	34.77	13.7	12	34.77	3.0000
SC700-3612	12375	36	12.75	17.625	18	9124	9	125	3-1/2	8	53	68	12	34.77	13.7	12	34.77	3.4375
SC700-4212	14437.5	42	12.75	17.625	18	9150	9	125	3-1/2	8	60	68	12	34.77	13.7	12	34.77	3.4375
SC700-4812	16500	48	12.75	17.625	18	9150	9	125	3-1/2	8	66	68	12	34.77	13.7	12	34.77	3.4375

All Dimensions in inches.
Max. CFH capacity is at 75% bucket load.
Consult Martin for head shaft size and horsepower requirements.
Internal gravity take-ups are standard.

Bucket Elevator Dimensions



Bucket Elevator Dimensions

100 & 700 Belt & Chain

Elevator Number Chain	Elevator Number Belt	Elevator Number Belt	Elevator Number Chain	Dimensions[1] (In Inches)																			
				Casing		Boot									Head								
				A	B	F	G	H	J	K	L	M	N	P	R	S	T	U	V	Y	Z	D-1[2]
C43-101		B43-139		8	18	9	6	27¼	36¾	42	9	6	10	6	15	8	17½	36	14	9	20¼	13
C64-102				9¾	35	13	9	26½	43	72	17½	14½	13½	13	29¾	10	28½	42	19½	17½	30½	13
		B64-140		11¾	39	14	9	26½	43	72	19½	16½	15½	13	31½	10	30½	42	21½	19½	32½	14
C85-103		B64-141		11¾	35	13	9	26½	43	72	17½	14½	15½	13	29¾	10	28½	42	19½	17½	30½	14
C85-104 C85-105	B85-790		C85-766 C85-767	11¾	39	14	9	26½	43	72	19½	16½	15½	13	31½	10	30½	42	21½	19½	32½	14
C85-107 C85-108				11¾	42	16	9	32½	50	72	21	18	15½	13	32¾	10	33¼	42	24	21	36¼	14½
	B105-791	B85-142	C105-768 C105-769	13¾	39	14	9	26½	43	72	19½	16½	17½	13	31½	10	30½	42	21½	19½	32½	15
C106-110 C106-111		B85-143		13¾	42	16	9	32½	50	72	21	18	17½	13	32¾	10	33¼	42	24	21	36¼	15½
C106-112 C106-113 C106-116	B107-792		C107-770 C107-771	13¾	48	19	9	40½	60	72	24	21	17½	15	35¾	13	36½	48	27½	24	40⅝	16
		B106-144		15¾	42	16	9	32½	50	72	21	18	19½	13	32¼	10	33¼	42	24	21	36¼	17
C127-117 C127-119	B127-793 B128-795	B106-145	C127-772 C127-773 C128-776 C128-777	15¾	48	19	9	40½	60	72	24	21	19½	15	35¾	13	36½	48	27½	24	40⅝	17
C127-120 C127-122				15¾	54	21	10	39	60½	72	27	24	19½	17	38¼	17	41½	48	31	27	45	18¼
		B127-146S		28	64	26	10	29¾	60½	72	32	29	30½	26¼	36	17	46½	48	36½	32	53	24
C147-123 C147-124 C147-126	B147-794 B148-796	B127-146	C147-774 C147-775 C148-778 C148-779	17¾	48	19	10	40½	60	72	24	21	21½	15	35¾	13	36½	48	27½	24	40⅝	18
C147-127 C147-128 C147-130		B127-147		17¾	54	21	10	39	60½	72	27	24	21½	17	38¼	17	41½	48	31	27	45	19¼
C168-131 C168-132	B168-797	B147-148	C168-780 C168-781	19¾	48	20	10	40½	60	72	24	21	23½	15	35¾	13	36½	48	27½	24	40⅝	19
C168-133 C168-134		B147-149		19¾	54	21	10	39	60½	72	27	24	23½	17	38¼	17	41½	48	31	27	45	20
	B188-798	B168-150	C188-782 C188-783	22¾	48	19	10	40½	60	72	24	21	26½	15	35¾	13	36½	48	27½	24	40⅝	21
		B168-152		22¾	54	21	10	39	60½	72	27	24	26½	17	38¼	17	41½	48	31	27	45	22

[1] NOT certified for construction.

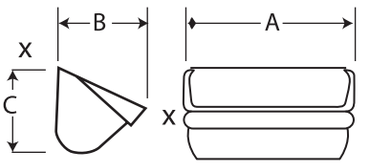
[2] Normal maximum for largest headshaft listed.

For units not shown, contact Martin.

Buckets and Chain

Style AA

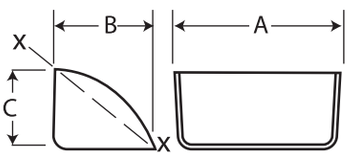
Ductile iron buckets for general use with most types of relatively free flowing material in centrifugal discharge elevators. Can be mounted on chain or belt and furnished in various plastic materials.



Bucket Size			Weight Lbs.	Capacity cu. ft. X — X
A	B	C		
4	2¾	3	1.0	.01
6	4	4¼	2.7	.03
8	5	5½	4.8	.07
10	6	6¼	7.7	.12
12	7	7¼	12.0	.19
14	7	7¼	13.9	.23
16	8	8½	21.8	.34

Style C

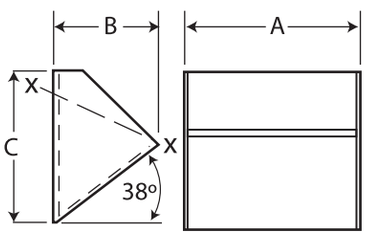
Fabricated buckets are used in centrifugal discharge elevators to handle materials that tend to pack or stick, such as sugar, clay, salt or wet grains.



Bucket Size			Weight Lbs.	Capacity cu. ft. X — X
A	B	C		
6	4½	4	2.0	.026
8	4½	4	2.8	.035
10	5	4	4.0	.052
12	5	4	4.8	.061
14	7	5½	8.5	.138
16	7	5½	10.5	.158

Continuous

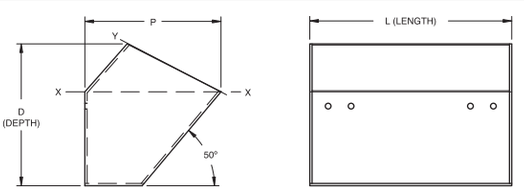
Medium front non-overlapping fabricated steel buckets are used in continuous discharge elevators for general service. Heavier gauges should be used when handling abrasive materials. Available fabricated from various materials. High front continuous buckets are available also. Plastic buckets available in most sizes.



Bucket Size			Weight Lbs.				Capacity cu. ft.
A	B	C	12 Ga.	10 Ga.	3/16"	1/4"	X — X
8	5	7¾	5.1	6.3	8.7	—	.070
10	5	7¾	5.9	7.4	10.2	—	.090
10	7	11⅝	9.3	11.9	16.5	—	.180
12	7	11⅝	10.4	13.4	18.6	—	.218
14	7	11⅝	11.6	14.9	20.7	—	.253
12	8	11⅝	11.2	14.4	20.0	26.1	.275
14	8	11⅝	12.4	16.0	22.2	29.1	.325
16	8	11⅝	13.7	17.6	24.5	32.0	.375
18	8	11⅝	14.9	19.2	26.7	35.0	.420

AC Welded Steel

High front for greater capacity. Hooded back for closer spacing. Typical in cement, gypsum powder or other powdery materials. Venting available for clean filling and discharge. Mounted on chain or belt.

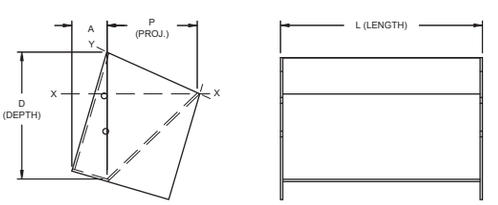


^Weights do not include bolt reinforcing plates. Bolt reinforcing plates are recommended if less than 8 bolts are used. Vent holes in bottom are optional in style "AC" buckets.

Bucket Size, Inches			Weight		Cap. Cu. Feet^	
L Length	P Proj.	D Depth	3/16" Steel	1/4" Steel	Filled to Line X-X	Filled to Line X-Y
12	8	8½	18.25	24.30	.231	.303
14	8	8½	20.30	27.00	.271	.356
16	8	8½	22.48	29.98	.311	.408
18	10	10½	31.15	38.95	.488	.691
20	10	10½	33.68	42.10	.542	.768
24	10	10½	39.67	52.69	.651	.921
27	12	12 ½	53.84	71.46	1.072	1.474

SC Welded Steel

Mounted between two strands of chain. Suitable for the heaviest materials. Designed for super capacity elevators. Typical in asphalt and concrete applications. Design offers increased capacity.



*Note: Actual capacity depends on angle of repose of material handled and inclination of elevator.

Bucket Size, Inches				Weight				Cap. Cu. Feet*	
L Length	P Proj.	D Depth	A Inches	10 Gauge Steel	3/16" Steel	1/4" Steel	5/16" Steel	Filled to Line X-X	Filled to Line X-Y
12	8¾	11⅝	4⁹⁄₁₆	22	29	39	49	.35	.54
14	8¾	11⅝	4⁹⁄₁₆	23	31	41	51	.41	.63
16	8¾	11⅝	4⁹⁄₁₆	25	34	45	56	.46	.72
16	12	17⅝	6½	43	58	76	95	1.11	1.55
18	8¾	11⅝	4⁹⁄₁₆	27	36	48	60	.52	.81
20	8¾	11⅝	4⁹⁄₁₆	29	39	52	65	.58	.90
20	12	17⅝	6½	49	67	88	110	1.40	1.94
24	12	17⅝	6½	55	75	104	130	1.68	2.33
30	12	17⅝	6½	65	88	117	146	2.11	2.91
36	12	17⅝	6½	73	99	132	165	2.53	3.49

Chain

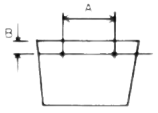
Combination chains, C-, have cast block links and steel connecting side bars. All steel (steel knuckle), SS, are fabricated of steel. Attachments are available either on the connecting side bars or block link.

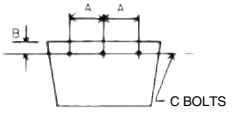
Chain No.	Pitch in Inches	Average Ultimate Strength Lbs.	Rated Working Value Lbs.	Wt. Per Ft. Lbs Attachment Every Other Pitch	Attachment Number	Dimension in Inches		
						Pin Diameter	Side Bar	Barrel or Knuckle Dia.
C-977	2.308	11,000	1830	2.2	K-1	7/16	3/16 × 7/8	7/8
C-188	2.609	14,000	1950	4.8	K-2	½	¼ × 1⅛	7/8
C-102B	4.0	24,000	4000	7.8	K-2	⅝	⅜ × 1½	1 1/32
C-110	6.0	24,000	4000	7.3	K-2	⅝	⅜ × 1½	1 5/16
C-111	4.76	36,000	5,950	10.7	K-2	¾	⅜ × 1¾	1 15/32
SS-102B	4.0	40,000	6,290	9.0	K-2	⅝	⅜ × 1½	1
SS-110	6.0	40,000	6290	8.6	K-2	⅝	⅜ × 1½	1¼

NOTE: All dimensions are inside to inside of bucket.

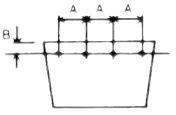
Bucket Punching (Belt)

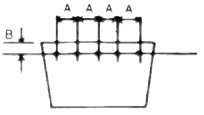
CEMA Standard (Formerly P1 thru P9)

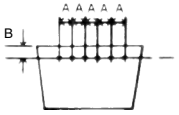

B1

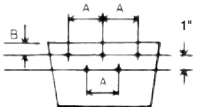


B2

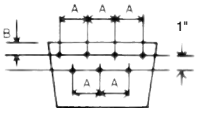

B3


B4

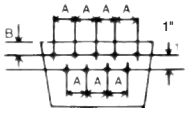

B5



B6



B7

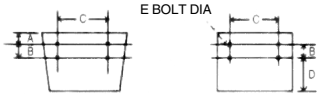


B8

Bucket Length	Salem and Other Similar Light Buckets				M.I. & Steel Buckets Style A, AA, AA-RB, B, C, etc.				Continuous Buckets			
	Punch	A	B	C*	Punch	A	B	C*	Punch	A	B	C*
6	B-1	4⅜	⅝	¼	B-1	4⅜	1	¼	—	—	—	—
8	B-2	3 1⁄16	⅞	¼-5⁄16	B-6	3	⅞	¼ -5⁄16	B-6	3	B = DEPTH – 1 2	¼-5⁄16
10	B-2	4⅛	⅞	¼-5⁄16	B-6	3½	⅞	¼ -5⁄16	B-6	3½		¼-5⁄16
12	B-3	3⅜	⅞	¼-5⁄16	B-6	4½	⅞	¼ -5⁄16	B-6	4½		¼-5⁄16
14	B-4	3	⅞	¼-5⁄16	B-7	4	⅞	5⁄16	B-7	4		5⁄16
16	B-5	2⅞	⅞	¼-5⁄16	B-7	4½	⅞	5⁄16	B-7	4½		5⁄16
18	—	—	—	—	—	—	—	—	B-7	5		5⁄16

*C = Bolt Diameter. See Chart on Page H-140.

Bucket Punching — Chain

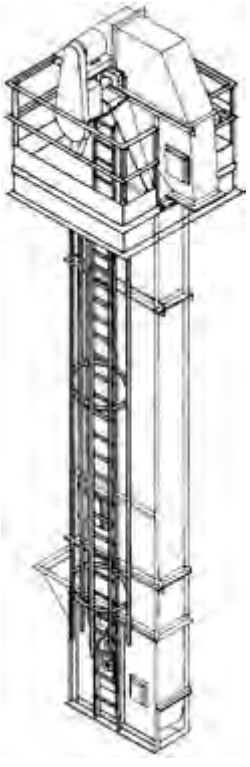


Style AA, C, SC, etc. Continuous

Chain Number	Attachment Number	A	B	C	D	E
C-977	K-1	1	—	3	—	⅜
C-188	K-2	1	1¼	4 3⁄16	2¾	⅜
C-102B	K-2	¾	1¾	5 5⁄16	2	⅜
C-110	K-2	⅞	1¾	5 5⁄16	3⅜	⅜
C-111	K-2	¾	2 5⁄16	6¼	2⅛	⅜
SS-102B	K-2	¾	1¾	5 5⁄16	2	⅜
SS-110	K-2	⅞	1¾	5 5⁄16	3⅜	⅜

Bucket Size	High Speed Grain			
	Punch	A	B	C
7 × 5	B2	2 1⁄16	1¾	¼
9 × 5	B2	3⅝	1¾	¼
9 × 6	B2	3⅝	2	¼
11 × 6	B3	3	2	¼
12 × 6	B3	3⅜	2	¼
14 × 7	B4	3	2	5⁄16

Consult Martin for "AC" and "SC" Bucket Punching.



Platforms
Head section service platforms are of structural steel, angle hand rails and heavy non-skid grating. The platform mounts securely to the elevator head section. Various sizes and configurations are available. Rest platforms are also available and required at 30' intervals.

Ladders/Safety Cages
Ladders with safety cages are available. They are constructed of heavy gauge steel and sized to provide easy access to platforms. Ladders with safety cage are easily bolted to the elevator casings.

Formulas for Calculating Number of Buckets, Bucket Bolts, Washers and Length of Chain or Belt

Centrifugal Discharge Chain Series 100

Number of Buckets, Bucket Bolts, Washers and Length of Chain.

Elevator Number	Buckets Style AA Malleable			Bucket Bolts and Lock Washers Hex Head Cap Screws		Chain		
	Size (Inches)	Spacing (Inches)	☆ Quantity	Size (Inches)	Quantity	Number	Attachment Every _ Link	Length (Feet)
C43-101	4 × 3	9¼	1.5 + (2.58 × Shaft Ctrs)	¼ × 1	2 × (No. of Buckets)	C-77	K1- 4th	2.31' + (2 × Shaft Ctrs)
C64-102	6 × 4	13	4.4 + (1.85 × Shaft Ctrs)	¼ × 1	2 × (No. of Buckets)	C-188	K1-5th	4.79' + (2 × Shaft Ctrs)
C85-103	8 × 5	16	2.75 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2-4th	3.66' + (2 × Shaft Ctrs)
C85-104	8 × 5	16	3.5 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2-4th	4.66' + (2 × Shaft Ctrs)
C85-105	8 × 5	16	3.5 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-102B	K2-4th	4.66' + (2 × Shaft Ctrs)
C85-107	8 × 5	16	4.25 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 4th	5.66' + (2 × Shaft Ctrs)
C85-108	8 × 5	16	4.25 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-102B	K2 - 4th	5.66' + (2 × Shaft Ctrs)
C106-110	10 × 6	16	3.75 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 4th	5.0' + (2 × Shaft Ctrs)
C106-111	10 × 6	16	3.75 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-102B	K2 - 4th	5.0' + (2 × Shaft Ctrs)
C106-112	10 × 6	18	4.33 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-110	K2 - 3rd	6.5' + (2 × Shaft Ctrs)
C106-113	10 × 6	18	4.33 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 3rd	6.5' + (2 × Shaft Ctrs)
C106-116	10 × 6	16	4.5 + (1.5 × Shaft Ctrs)	⅜× 1¼	4 × (No. of Buckets)	C-102B	K2 - 4th	6.0' + (2 × Shaft Ctrs)
C127-117	12 × 7	18	4.0 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 3rd	6.0' + (2 × Shaft Ctrs)
C127-119	12 × 7	16	4.25 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 4th	5.66' + (2 × Shaft Ctrs)
C127-120	12 × 7	18	5.0 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 3rd	7.5' + (2 × Shaft Ctrs)
C127-122	12 × 7	16	5.5 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 4th	7.33' + (2 × Shaft Ctrs)
C147-123	14 × 7	19	3.79 + (1.26 × Shaft Ctrs)	½ × 1½	4 × (No. of Buckets)	C-111	K2 - 4th	6.0' + (2 × Shaft Ctrs)
C147-124	14 × 7	18	4.0 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 3rd	6.0' + (2 × Shaft Ctrs)
C147-126	14 × 7	16	4.25 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 4th	5.66' + (2 × Shaft Ctrs)
C147-127	14 × 7	19	4.74 + (1.26 × Shaft Ctrs)	½ × 1½	4 × (No. of Buckets)	C-111	K2 - 4th	7.5' + (2 × Shaft Ctrs)
C147-128	14 × 7	18	5.0 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 3rd	7.5' + (2 × Shaft Ctrs)
C147-130	14 × 7	16	5.5 + (1.5 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 4th	7.33' + (2 × Shaft Ctrs)
C168-131	16 × 8	19	3.48 + (1.26 × Shaft Ctrs)	½ × 1½	4 × (No. of Buckets)	C-111	K2 - 4th	5.55' + (2 × Shaft Ctrs)
C168-132	16 × 8	18	3.66 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 3rd	5.5' + (2 × Shaft Ctrs)
C168-133	16 × 8	19	4.51 + (1.26 × Shaft Ctrs)	½ × 1½	4 × (No. of Buckets)	C-111	K2 - 4th	7.13' + (2 × Shaft Ctrs)
C168-134	16 × 8	18	4.66 + (1.33 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 3rd	7.0' + (2 × Shaft Ctrs)

Centrifugal Discharge Belt Series 100

Number of Buckets, Bucket Bolts, Washers and Length of Belt.

Elevator Number	Buckets Style AA Malleable			Bucket Bolts and Lock Washers (Norway Elevator Bolts)		Belt (Including 3 Buckets Overlap)	
	Size (Inches)	Spacing (Inches)	☆ Quantity	Size (Inches)	Quantity	No. of Holes to be Punched in Belt	Length (Feet)
B43-139	4 × 3	8	3.12 + (3 × Shaft Ctrs)	¼ × 1	2 × (No. of Buckets)	6 + (No. of Bolts)	5' + (2 × Shaft Ctrs)
B64-140	6 × 4	13	4.85 + (1.85 × Shaft Ctrs)	¼ × 1	2 × (No. of Buckets)	6 + (No. of Bolts)	9' + (2 × Shaft Ctrs)
B64-141	6 × 4	13	4.34 + (1.85 × Shaft Ctrs)	¼ × 1	2 × (No. of Buckets)	6 + (No. of Bolts)	9' + (2 × Shaft Ctrs)
B85-142	8 × 5	16	3.34 + (1.5 × Shaft Ctrs)	¼ × 1¼	5 × (No. of Buckets)	15 + (No. of Bolts)	9' + (2 × Shaft Ctrs)
B85-143	8 × 5	16	4.13 + (1.5 × Shaft Ctrs)	¼ × 1¼	5 × (No. of Buckets)	15 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B106-144	10 × 6	16	3.53 + (1.5 × Shaft Ctrs)	⅝ × 1¼	5 × (No. of Buckets)	15 + (No. of Bolts)	9' + (2 × Shaft Ctrs)
B106-145	10 × 6	16	4.34 + (1.5 × Shaft Ctrs)	⅝ × 1¼	5 × (No. of Buckets)	15 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B127-146	12 × 7 Staggered	18	3.86 + (1.33 × Shaft Ctrs)	⅝ × 1½	5 × (No. of Buckets)	15 + (No. of Bolts)	11' + (2 × Shaft Ctrs)
B127S-146S	12 × 7	16	6.28 + (3 × Shaft Ctrs)	⅝ × 1½	5 × (No. of Buckets)	15 + (No. of Bolts)	15' + (2 × Shaft Ctrs)
B127-147	12 × 7	18	4.72 + (1.33 × Shaft Ctrs)	⅝ × 1½	5 × (No. of Buckets)	15 + (No. of Bolts)	13' + (2 × Shaft Ctrs)
B147-148	14 × 7	18	3.86 + (1.33 × Shaft Ctrs)	⅝ × 1½	7 × (No. of Buckets)	21 + (No. of Bolts)	11' + (2 × Shaft Ctrs)
B147-149	14 × 7	18	4.72 + (1.33 × Shaft Ctrs)	⅝ × 1½	7 × (No. of Buckets)	21 + (No. of Bolts)	13' + (2 × Shaft Ctrs)
B168-150	16 × 8	18	3.31 + (1.33 × Shaft Ctrs)	⅝ × 1½	7 × (No. of Buckets)	21 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B168-152	16 × 8	18	4.72 + (1.33 × Shaft Ctrs)	⅝ × 1½	7 × (No. of Buckets)	21 + (No. of Bolts)	13' + (2 × Shaft Ctrs)

Continuous Discharge Chain Series 700

Number of Buckets, Bucket Bolts, Washers and Length of Chain.

Elevator Number	Buckets Medium Front Continuous Steel Buckets			Bucket Bolts and Lock Washers Hex Head Cap Screws		Chain		
	Size (Inches)	Spacing (Inches)	☆ Quantity	Size (Inches)	Quantity	Number	Attachment Every _ Link	Length (Feet)
C85-766	8 × 5 × 7¾	8	6.57 + (3 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 2nd	4.66' + (2 × Shaft Ctrs)
C85-767	8 × 5 × 7¾	8	6.57 + (3 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-102B	K2 - 2nd	4.66' + (2 × Shaft Ctrs)
C105-768	10 × 5 × 7¾	8	8.25 + (3 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-102B	K2 - 2nd	5.0' + (2 × Shaft Ctrs)
C105-769	10 × 5 × 7¾	8	8.25 + (3 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-102B	K2 - 2nd	5.0' + (2 × Shaft Ctrs)
C107-770	10 × 7 × 11⅝	12	6.06 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-110	K2 - 2nd	6.5' + (2 × Shaft Ctrs)
C107-771	10 × 7 × 11⅝	12	6.06 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 2nd	6.5' + (2 × Shaft Ctrs)
C127-772	12 × 7 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C127-773	12 × 7 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C147-774	14 × 7 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C147-775	14 × 7 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C128-776	12 × 8 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C128-777	12 × 8 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C148-778	14 × 8 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	C-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C148-779	14 × 8 × 11⅝	12	5.60 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 2nd	6.0' + (2 × Shaft Ctrs)
C168-781	16 × 8 × 11⅝	12	5.33 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 2nd	5.5' + (2 × Shaft Ctrs)
C168-783	18 × 8 × 11⅝	12	5.33 + (2 × Shaft Ctrs)	⅜ × 1¼	4 × (No. of Buckets)	SS-110	K2 - 2nd	5.5' + (2 × Shaft Ctrs)

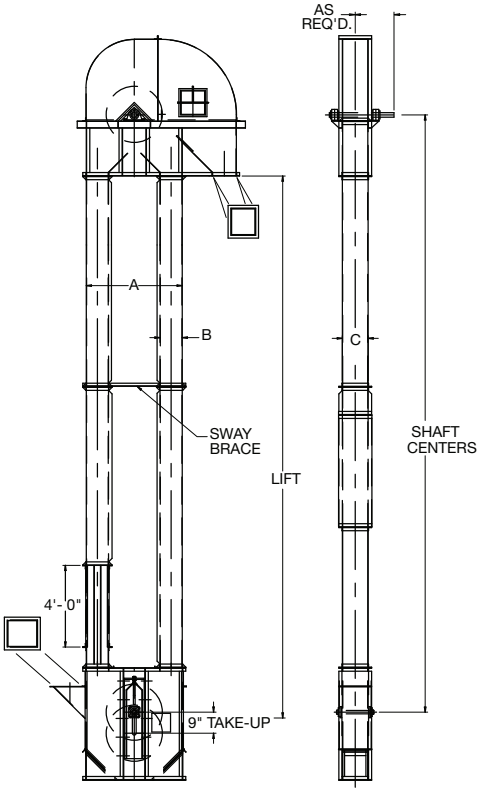
Continuous Discharge Belt Series 700

Number of Buckets, Bucket Bolts, Washers and Length of Chain.

Elevator Number	Buckets Medium Front Continuous Steel Buckets			Bucket Bolts and Lock Washers (Norway Elevator Bolts)		Belt (Including 3 Buckets Overlap)		
	Size (Inches)	Spacing (Inches)	☆ Quantity	Size (Inches)	Quantity	Width (Inches)	No. of Holes to be Punched in Belt	Length (Feet)
B85-790	8 × 5 × 7¾	8	7.88 + (3 × Shaft Ctrs)	¼ × ¾	5 × (No. of Buckets)	9	15 + (No. of Bolts)	8' + (2 × Shaft Ctrs)
B105-791	10 × 5 × 7¾	8	6.5 + (3 × Shaft Ctrs)	⅝ × 1	5 × (No. of Buckets)	11	15 + (No. of Bolts)	7' + (2 × Shaft Ctrs)
B107-792	10 × 7 × 11⅝	12	5.75 + (2 × Shaft Ctrs)	⅝ × 1	5 × (No. of Buckets)	11	15 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B127-793	12 × 7 × 11⅝	12	5.75 + (2 × Shaft Ctrs)	⅝ × 1¼	5 × (No. of Buckets)	13	15 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B147-794	14 × 7 × 11⅝	12	5.75 + (2 × Shaft Ctrs)	⅝ × 1¼	7 × (No. of Buckets)	15	21 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B128-795	12 × 8 × 11⅝	12	5.75 + (2 × Shaft Ctrs)	⅝ × 1¼	5 × (No. of Buckets)	13	15 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B148-796	14 × 8 × 11⅝	12	5.75 + (2 × Shaft Ctrs)	⅝ × 1¼	7 × (No. of Buckets)	15	21 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B168-797	16 × 8 × 11⅝	12	5.75 + (2 × Shaft Ctrs)	⅝ × 1¼	7 × (No. of Buckets)	17	21 + (No. of Bolts)	10' + (2 × Shaft Ctrs)
B183-798	18 × 8 × 11⅝	12	4.96 + (2 × Shaft Ctrs)	⅝ × 1¼	7 × (No. of Buckets)	19	21 + (No. of Bolts)	9' + (2 × Shaft Ctrs)

☆ If answer is a fraction, go to next whole number. Consult Martin for units not shown.

High Speed Grain Centrifugal Discharge Belt Series 500



Martin Model No.	No. Bucket Rows	Capacity C.F.H. @ "Y-Y +5 Deg." Max. Useable	Capacity C.F.H. @ "Y - Y" (W.L.)	at Speed Belt FPM	at Speed H.S. RPM	Buckets Standard Duty Plastic Typical Style	Width In.	Proj. In.	Spacing In.	Belt Width Inches	Pulley Width Inches	Head Pulley Dia. In.	Boot Pulley Dia. In.	Boot Shaft Dia. In.	Hd. & Bt. Casing Dimensions Depth "C" In.	Hd. & Bt. Casing Dimensions Width "A" In.	Intermediate Casing Dimensions Depth "C" In.	Intermediate Casing Dimensions Width "B" In.	Casing Thicknesses Head	Casing Thicknesses Boot	Casing Thicknesses Int.	Inlet Height Dia. In.
B64-508 *	1	782	697	265	119	HD-MAX	6.250	4.500	7	7	7	8	8	1-3/16	8	20	8	20 *	12 ga.	12 ga.	12 ga.	30
B65-512A	1	1,079	980	350	107	HD-MAX	6.250	5.625	10	7	8	12	12	1-7/16	9	27	9	8	12 ga.	12 ga.	12 ga.	32
B65-512B	1	1,541	1,400	350	107	HD-MAX	6.250	5.625	7	7	8	12	12	1-7/16	9	27	9	8	12 ga.	12 ga.	12 ga.	32
B95-518A	1	1,853	1,640	440	90	HD-MAX	9.375	5.625	12	10	11	18	18	1-7/16	12	34	12	9	12 ga.	10 ga.	12 ga.	39
B95-518B	1	2,470	2,187	440	90	HD-MAX	9.375	5.625	9	10	11	18	18	1-7/16	12	34	12	9	12 ga.	10 ga.	12 ga.	39
B95-518C	1	3,176	2,812	440	90	HD-MAX	9.375	5.625	7	10	11	18	18	1-7/16	12	34	12	9	12 ga.	10 ga.	12 ga.	39
B96-524	1	3,974	3,600	460	70	HD-MAX	9.375	6.625	8	10	11	24	24	1-15/16	13	42	13	10	10 ga.	10 ga.	12 ga.	44
B96-530	1	4,406	3,991	510	63	HD-MAX	9.375	6.625	8	10	11	30	30	1-15/16	15	48	15	10	10 ga.	3/16"	12 ga.	48
B106-530	1	4,931	4,534	510	63	HD-MAX	10.375	6.625	8	11	12	30	30	1-15/16	15	48	15	10	10 ga.	3/16"	12 ga.	48
B136-530	1	6,388	5,864	510	63	HD-MAX	13.375	6.625	8	14	15	30	30	1-15/16	18	48	18	10	10 ga.	3/16"	12 ga.	48
B127-536	1	8,879	8,123	600	62	HD-MAX	12.500	7.750	9	13	15	36	36	2-7/16	18	56	18	11	10 ga.	3/16"	12 ga.	56
B147-536	1	10,747	9,900	600	62	HD-MAX	14.500	7.750	9	15	16	36	36	2-7/16	21	56	21	11	10 ga.	3/16"	12 ga.	56
B167-536	1	12,000	11,289	600	62	HD-MAX	16.500	7.750	9	17	19	36	36	2-7/16	21	56	21	11	10 ga.	3/16"	12 ga.	56
B168-542	1	14,751	13,798	620	55	HD-MAX	16.500	8.750	10	17	19	42	42	2-7/16	23	68	23	14	3/16"	3/16"	12 ga.	72
B188-542	1	16,740	15,764	620	55	HD-MAX	18.500	8.750	10	20	22	42	42	2-7/16	26	68	26	14	3/16"	3/16"	12 ga.	72
B2108-548	2	20,648	19,164	700	55	HD-MAX	10.500	8.750	10	22	24	48	48	2-15/16	28	74	28	14	3/16"	1/4"	10 ga.	76
B2138-548	2	26,412	23,706	700	55	HD-MAX	13.500	8.750	10	28	30	48	48	2-15/16	34	74	34	14	3/16"	1/4"	10 ga.	76
B2168-548	2	33,314	31,681	700	55	HD-MAX	16.500	8.750	10	34	36	48	48	2-15/16	40	74	40	14	3/16"	1/4"	10 ga.	76
B2188-548	2	37,800	35,595	700	55	HD-MAX	18.500	8.750	10	38	40	48	48	3-7/16	44	74	44	14	3/16"	1/4"	10 ga.	76
B3168-548	3	49,971	47,521	700	55	HD-MAX	16.500	8.750	10	50	52	48	48	3-7/16	56	74	56	14	3/16"	1/4"	10 ga.	76
B4158-548	4	63,222	59,652	700	55	HD-MAX	15.500	8.750	10	62	64	48	48	3-7/16	68	74	68	14	3/16"	1/4"	10 ga.	76
B4188-548	4	75,600	71,190	700	55	HD-MAX	18.500	8.750	10	74	76	48	48	3-7/16	80	74	80	14	3/16"	1/4"	10 ga.	76

* Single Leg intermediate casing; 50' maximum height.

Head shaft diameter to be determined by customer's application and specifications.

Plastic buckets are available as Nylon, HDP, or Urethane. Steel is available on special request.

Drag Conveyors



Submerged Drag

SECTION VII

Drag Conveyors H-143
Flat Bottom Drag Conveyor ..... H-144 – H-145
Super Duty Drag Conveyor ..... H-146 – H-147
Engineering Class Sprockets H-148
Mill Duty Drag Conveyor ..... H-149 – H-150
L-Path Drag Conveyor ..... H-151 – H-153
Round Bottom Drag Conveyor H-154
Drag Conveyor Maintenance Tips ..... H-155 – H-156

Drag Conveyors

Martin has a long history of designing and manufacturing drag conveyors dating back more than 60 years to the Fort Worth Steel's "Incline Drag Flight Elevator".

Currently we offer a broad line of standard and Made-to-Order drag conveyors to meet our customer's conveying requirements, be it conveying grains or heavy abrasive materials. We have handled these materials in the horizontal, inclined and vertical planes. Martin is ready and willing to help design and manufacture the drag you need for your special application.

Martin offers Flat Bottom and Round Bottom drags for conveying relatively free flowing non- abrasive materials in a horizontal or slight incline. We developed our Super Duty Drags to convey a wide range of materials longer distances and at higher capacities; we have Super Duty Drags operating at lengths of over 660 feet.

Our Mill Duty Drag Conveyors were developed to handle abrasive and potentially hot materials by combining the features of our Flat Bottom and Super Duty Drags with a very heavy duty construction. We have designed and manufactured Submerged Drags to handle ash from boilers and industrial incinerators.

Our L Path Line of drags was designed to handle materials at inclines greater than 20 degrees up to and including vertical. The L-Path drag has also been redesigned using abrasive resistant steel liners and flights as well as a forged type chain to convey more abrasive products.

To assure the quality of our Drags, Martin has invested in the latest cutting, forming and welding equipment, such as laser cutting equipment, high definition plasmas, CNC angle punches, CNC machining equipment as well as robotics. We also manufacture our own sprockets, our own take-ups and line of inspection doors.

To assure the best service and availability in the industry, Martin is able to manufacture our drag conveyors in nine locations throughout North America.

We are always driven to provide the highest quality service, products and value to our customer without compromising safety.

Easy Application Chart

Drag Type	Materials	Capacity Range	Length Range	Incline Range	Chain Type	Flight Type	Speeds Range
Martin Flat Bottom (MFB™)	Non abrasive	2800 CFH to 32000 CFH	20' to 200'	0 to 10 degrees	Welded Steel	Non-metallic	100 to 200 FPM
Martin Super Duty Flat Bottom (MSC™)	Non Abrasive	12000 CFH to 64000 CFH	150' to 675'	0 to 10 degrees	Welded Steel	Non-metallic	75 to 200 FPM
Martin Mill Duty Flat Bottom (MMD™)	Abrasive	1422 CFH to 14063 CFH	20' to 250'	0 to 10 degrees	142, WD & WS	Metallic	25 to 100 FPM
Martin L-Path Flat Bottom (MLP™)	Non Abrasive	600 CFH to 15000 CFH	20' to 125'	20 to 90 degrees	WS & 142	Non-metallic	50 to 100 FPM
Martin Slim Profile Flat Bottom (MSP™)	Non Abrasive	440 CFH to 3000 CFH	10' to 50'	0 to 45 degrees	Welded Steel	Non-metallic	25 to 100 FPM
Martin Round Bottom (MRB™)	Non Abrasive	2000 CFH to 30000 CFH	20' to 200'	0 to 20 degrees	Welded Steel	Non-metallic	100 to 200 FPM

In all the above type drags the material should be relatively free flowing and not sticky.

Particle shape and particle size is also critical to a drags proper operation.

• The above recommendations are general in nature and specific to applications should be directed to Martin.

Flat Bottom Drag Conveyor



2416 MFB Flat Bottom Drag

Standard Features

- Bolted Replaceable Bottom
- Bolted Flanged Cover
- Jig Welded Flight Attachments
- UHMW Flights
- Heat Treated Sprockets
- Rail Return System
- Flow Thru Inlet
- Heavy Duty Backing Plate



2412 MFB Intermediate

Popular Options

- Intermediate Discharges
  (Reduce Bed Depth to assure proper discharge.)
- Liners of Metallic and Non Metallic Materials
- Abrasive Resistant Steel Bottom Plates
- Feed Control Inlets
- Split Sprockets
- Stainless Steel Construction
- Self-Cleaning & Adjustable Tail Sections



Self-Cleaning and Adjustable Tail Section

Flat Bottom Drag Conveyor

Capacity Chart for Standard Sizes

SERIES	1 FPM	100 FPM		125 FPM		150 FPM		175 FPM		200 FPM	
	CFH	CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM
1809	28.13	2,813	37	3,516	46	4,220	55	4,923	65	5,626	74
2409	54.38	5,438	27	6,798	34	8,157	40	9,517	47	10,876	54
2412	68.25	6,825	27	8,531	34	10,238	40	11,944	47	13,650	54
2414	78.75	7,875	27	9,844	34	11,813	40	13,781	47	15,750	54
2416	89.25	8,925	27	11,156	34	13,388	40	15,619	47	17,850	54
2418	96.19	9,619	27	12,024	34	14,429	40	16,833	47	19,238	54
3016	111.56	11,156	23	13,945	29	16,734	34	19,523	40	22,312	46
3018	121.13	12,113	23	15,141	29	18,170	34	21,198	40	24,226	46
3020	133.88	13,388	23	16,735	29	20,082	34	23,429	40	26,776	46
3024	159.38	15,938	23	19,923	29	23,907	34	27,892	40	31,876	46

1. Capacities based on 90% loading with a free-flowing material.
2. Selection of conveyors should be based upon the material's characteristic.
3. Capacities and speed will vary for other than free flowing materials.

Please Consult Martin if you have questions concerning your application.

Inlets



Flow Thru Inlet

Best suited for free flowing non- abrasive materials with a controlled feed rate to the drag.

Chains



Welded Steel

Welded Steel chain is our standard and can be quoted and supplied from a chain manufacture of your choice



Bypass Inlet

Directs the flow of material to the carry strand of chain and flights.



142 Forged

Where abrasion or heat are an issue a 142 chains can be supplied. (Other chains are available.)



Feed Control Inlet

Allows the control of feed rates at the drag, limited to use with the Flat, Super Duty and Mill Duty Drags.

Super Duty Drag Conveyor



MSC Super Capacity Drag Head with Slack Side Tension Idler Sprocket

Standard Features

- Bolted Replaceable Bottom
- Bolted Flanged Cover
- Jig Welded Flight Attachments
- Welded Steel Chain
- Heavy Duty Steel Backing Plates
- UHMW Flights
- Heat Treated Split Sprockets
- Rail Return System with AR steel Wear Strips
- Abrasion Resistant Steel replaceable side liners
- Flow Thru Inlet
- Special HD Head Section with Martin Slack Side Tension Idler Sprocket Assembly
- Slack Side Tension transition cover
- Heavy Duty Tails Section with MHD Take-ups and Pillow Block Bearings

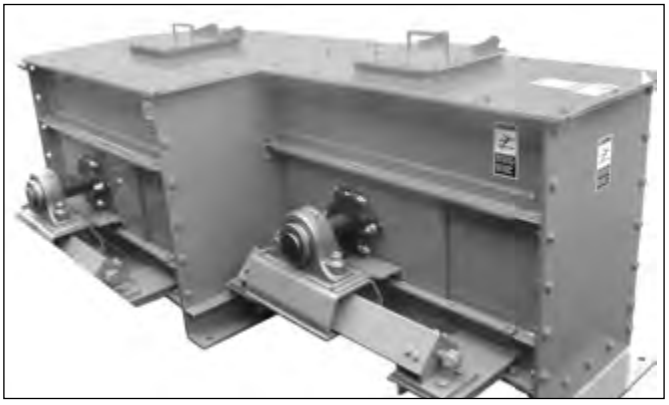


MMD Drag with two By-Pass Inlets



MLP Tail Section

Super Duty Drag Conveyor



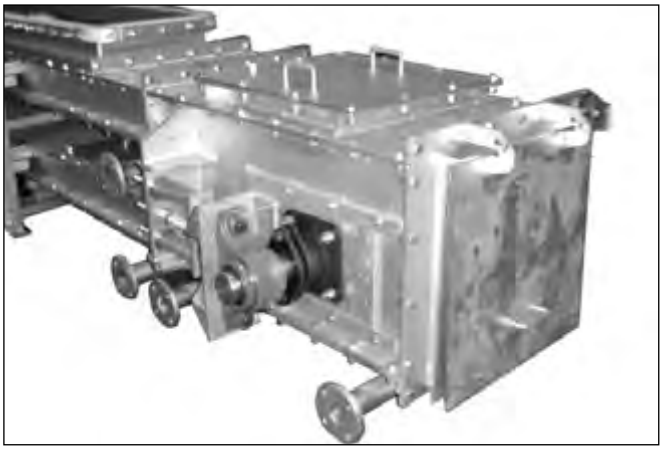
Double Chain Tail for MSC™ Drag.

Popular Options

- Special Chains
- Double Chain Design with an Individual Chain Take-up Tail Section
- Spring Loaded Take-up
- Hydraulic. Take-up
- Stainless Steel Construction
- Liners of various materials
- Feed Control Inlet

Super Duty Capacity

Series	FPM 1 CFH	100 FPM CFH	125 FPM CFH	150 FPM CFH	200 FPM CFH	
MSC 3024	168.75	16875	21094	25312	33750	
MSC 3030	209.25	20925	26156	31388	41850	
MSC 3036D	249.75	24975	31219	37462	49950	Double Chain
MSC 3040D	276.75	27675	34594	41512	55350	Double Chain
MSC 3048D	330.75	33075	41344	49612	66150	Double Chain



Special Tail Section with Spring Take-up and Relief Door



Martin Submerged Drag being loaded

Engineering Class Sprockets



Welded Steel Chain and Sprocket

All welded steel sprockets are heat treated and most can be offered split or with segmented rim for easier replacement. All sprockets can be supplied with a shear pin hub where needed.



Wide Face Sprocket with Forged Teeth



Cast Steel Sprocket



Segmented Rim Cast Sprockets



Cast Wide Face Traction Wheel

Cast Iron & Steel Sprockets

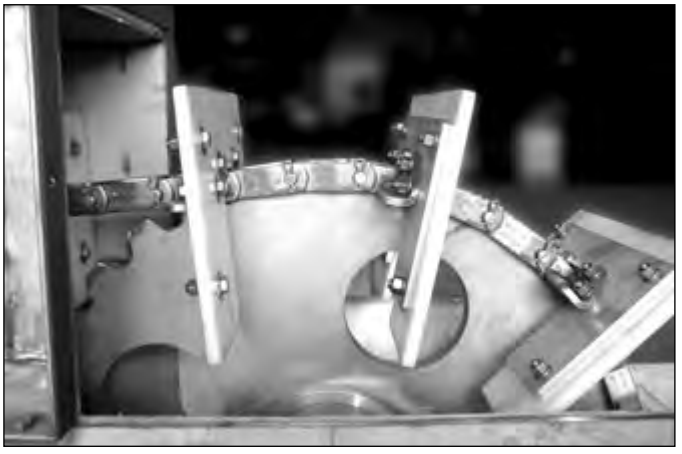
- Cast Split Sprockets
- Hunting Tooth Sprockets
- Rivetless Chain Sprocket
- Drag Chain Sprockets (Plain & Flanged)
- Traction Wheels (Plain & Flanged)
- Plate Body Sprockets
- Chain Saver Rim Sprockets
- Adjustable Hub Sprockets
- Chill Rim Sprockets



Wide Face Drag Sprockets

Wide Face Drag Sprockets are available for Chain Numbers 102, 104, 120, 480, etc.

Wide Face Drag Sprockets are available in “QD”, or “Split Taper” style — Induction Heat Treat Available.



Stainless Steel Sprocket

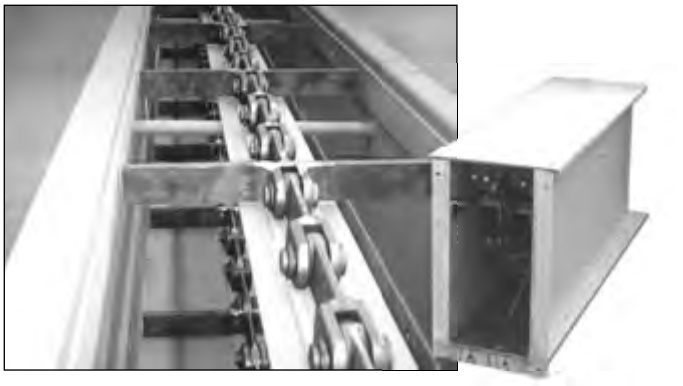
Mill Duty Drag Conveyor



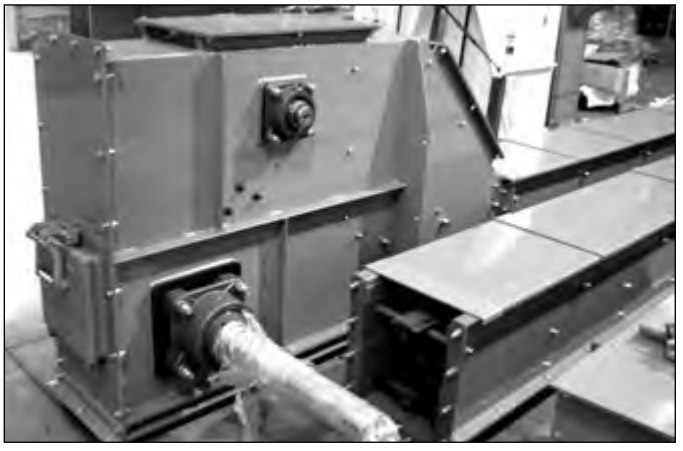
MMD Mill Duty Head with Martin Slack Side Tension Idler Sprocket

Standard Features

- Bolted Replaceable Bottom
- Bolted Heavy Flanged Cover
- 142 Forged Chain
- Heavy Duty Steel Backing Plates
- Non-metallic or Abrasion Resistant steel Flights
- Heat Treated Split Sprockets
- Center Support Rail Return System with AR steel Wear Strips
- Replaceable side liners of various materials
- Flow Thru Inlet
- Special Head Section with Pillow Block Bearings
- Heavy Duty Tails Section with MHD Take-ups and Pillow Block Bearings



Center Support Rail Return System with AR steel Wear Strips for MMD Drag



MMD Mill Duty Head and Intermediate

Mill Duty
Drag Conveyor

Capacity Chart

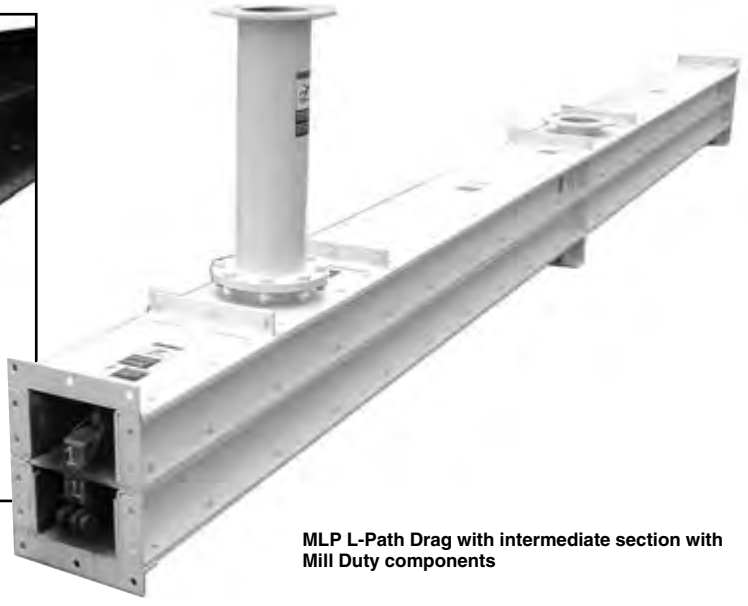
Mill Duty Drag					
Series	FPM CFH	25 FPM CFH	50 FPM CFH	75 FPM CFH	100 FPM CFH
MDD2412	57	1422	2844	4266	5688
MDD2416	74	1859	3719	5578	7438
MDD3020	118	2953	5906	8859	11813
MDD3024	141	3516	7031	10547	14063

Popular Options

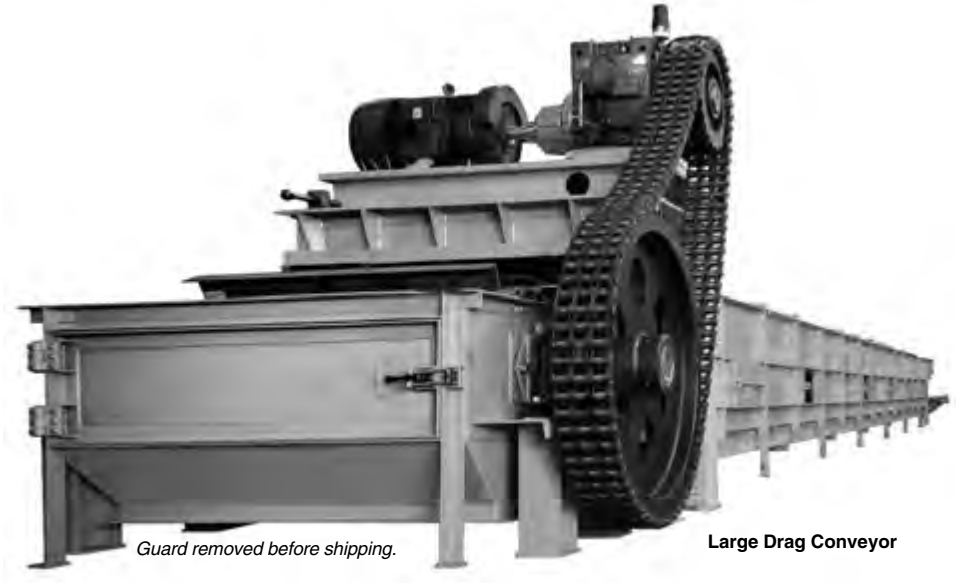
- Special Chains like WDH Welded Steel
- Special Heavy Duty Head Section with Martin Slack Side Tension Idler Sprocket Assembly
- Spring Loaded Take-up
- Hydraulic Take-up
- Stainless Steel Construction
- Liners of various materials both metallic and non-metallic
- Feed Control Inlet



Feed Control Inlet and Spring Take-up on MartinMMD™ Drag



MLP L-Path Drag with intermediate section with Mill Duty components



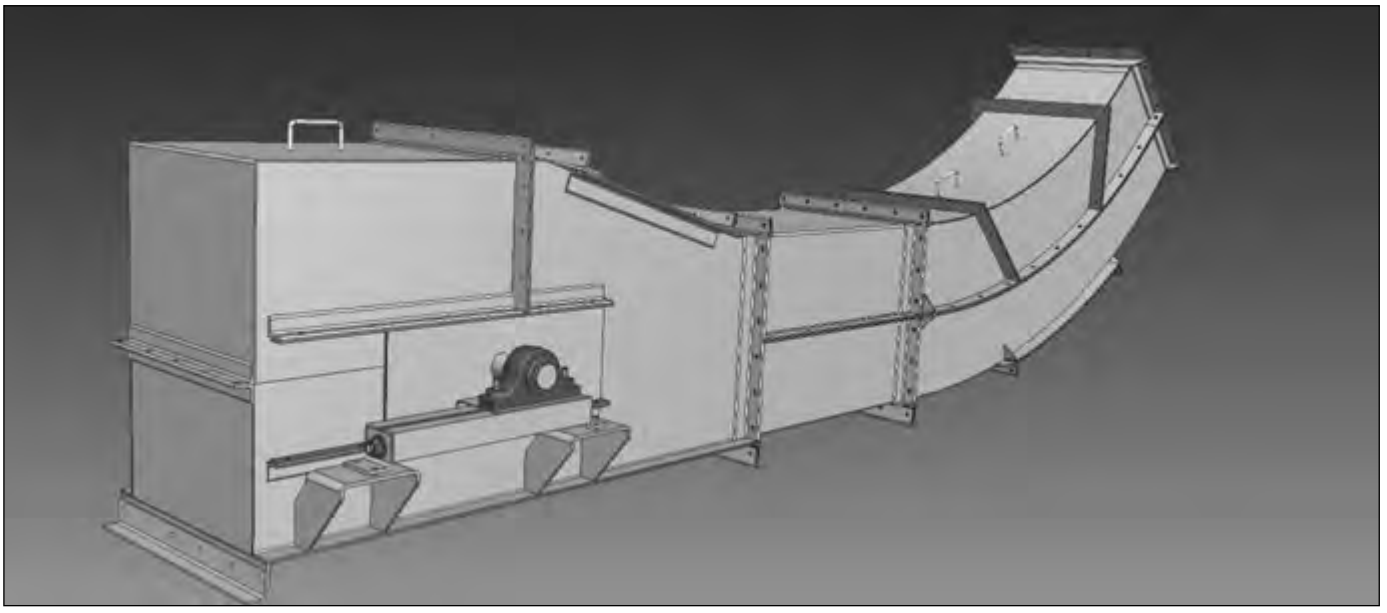
Guard removed before shipping.

Large Drag Conveyor



MMD Interior with 142 Chain

L-Path Drag Conveyor



Standard Features

- Seven piece intermediate housing
- Welded steel chain
- Jig welded attachments
- UHMW flights
- Martin HT and Split Sprockets
- Pillow Block Bearings
- Martin MHD take-ups

Popular Options

- 142 Forged Chain
- Mill Duty type construction
- Abrasive Resistant steel divider plates
- Special flight materials metallic and non-metallic
- Slack chain accommodating lower bend (45 to 90 degree)
- Upper Bend Section



Tail Section and Stack Accommodate Lower Bend



MLP Head interior with SS welded chain and sprocket

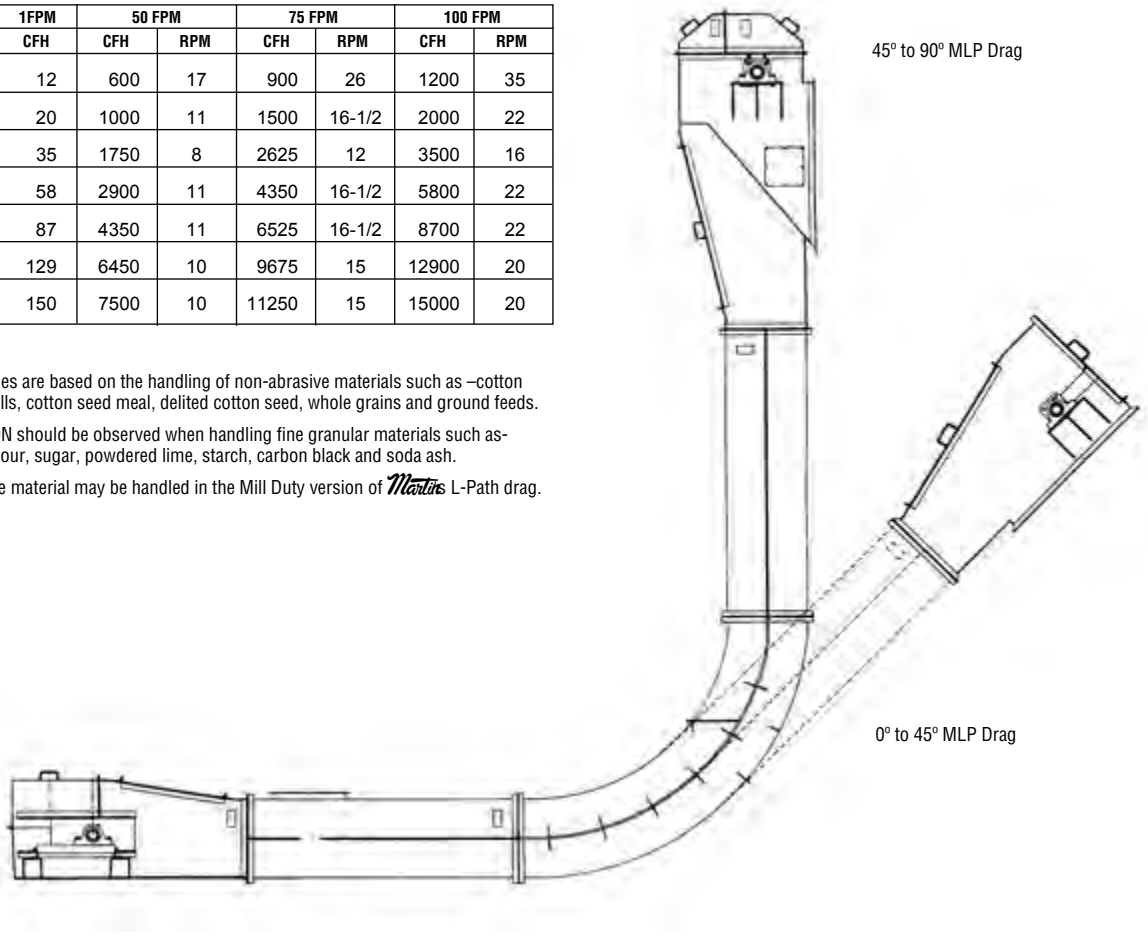
L-Path
Drag Conveyor

L-Path Drag Capacity Chart

Series	1FPM	50 FPM		75 FPM		100 FPM	
	CFH	CFH	RPM	CFH	RPM	CFH	RPM
MLP57	12	600	17	900	26	1200	35
MLP610	20	1000	11	1500	16-1/2	2000	22
MLP913	35	1750	8	2625	12	3500	16
MLP1020	58	2900	11	4350	16-1/2	5800	22
MLP1224	87	4350	11	6525	16-1/2	8700	22
MLP1236	129	6450	10	9675	15	12900	20
MLP1342	150	7500	10	11250	15	15000	20

Notes:

1. Capacities are based on the handling of non-abrasive materials such as –cotton seed hulls, cotton seed meal, delited cotton seed, whole grains and ground feeds.
2. CAUTION should be observed when handling fine granular materials such as- wheat flour, sugar, powdered lime, starch, carbon black and soda ash.
3. Abrasive material may be handled in the Mill Duty version of Martin's L-Path drag.





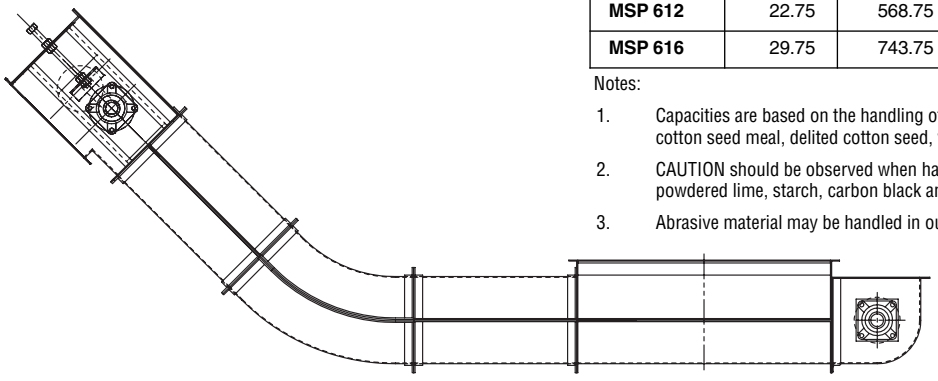
MLP Drag ready to ship.



MMD Special L-Path Drag with Slack Accommodating Bend.

L-Path Drag Conveyor

Slim Profile Drag Options



Slim Profile Drag						
	1RPM	25 RPM	50 RPM	75 RPM	100 RPM	
MSP 609	17.5	437.5	875	1312.5	1750	CFM
MSP 612	22.75	568.75	1137.5	1706.25	2275	CFM
MSP 616	29.75	743.75	1487.5	2231.25	2975	CFM

Notes:

1. Capacities are based on the handling of non-abrasive materials such as –cotton seed hulls, cotton seed meal, delited cotton seed, whole grains and ground feeds.
2. CAUTION should be observed when handling fine granular materials such as- wheat flour, sugar, powdered lime, starch, carbon black and soda ash.
3. Abrasive material may be handled in our Mill Duty version of our L-Path drag.

The Slim Profile Drag is designed to handle non-abrasive free flowing materials in applications where space is limited. The incline is limited to 45 degrees and the overall length should not exceed 50'-0". The take-up is located in the head so the tail is as short as possible, and the take-up adjustment is limited to 6" to keep the head as short as possible. The height at the inlet flange is only 1'-7".

Standard Features

- Self-Cleaning Tail Section
- Slim Profile Head with Martin CWS Wide Slot Take-up
- WH78 welded steel chain
- Jig welded attachments
- UHMW Flights with steel backing plates
- Flow Thru Inlet
- Martin Heat Treated Sprocket

Popular Options

- AR Steel Divider Plate
- Tail Take-up
- Longer than Standard Inlet
- Optional Non-Metallic Flights such as TIVAR® or Nylon
- Stainless steel construction





Slim Profile Drag being shipped



Special Mill Duty Drag Chain - Flight and Idler

TIVAR® is a registered trademark of the Quadrant Group of Companies.

Round Bottom Drag Conveyor

Capacity FPM/RPM

Series	Size	100 FPM		125 FPM		150 FPM		175 FPM		200FPM	
		CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM
900	9"	2040	33	2600	41	3050	50	3500	58	4080	66
1200	12"	3475	33	4300	41	5200	50	6075	58	6950	66
1400	14"	4750	33	5900	40	7100	50	8300	58	9500	66
1600	16"	6050	32	7600	40	9150	48	10600	56	12100	64
1800	18"	8100	32	10150	40	12300	48	14300	56	16200	64
2000	20"	10500	23	13000	29	15650	35	18200	40	21000	46
2400	24"	14800	23	18150	29	22000	35	25750	40	29600	46

1. 90% loading Capacities based on with a free-flowing material.
2. Selection of conveyors should be based upon the material's characteristic.
3. Capacities and speed will vary from other than free flowing and will be reduced if idler return is used.

Please Consult Martin if you have questions concerning your application.

The MartinRound Bottom drag is designed with the user in mind. We have incorporated larger heat-treated sprockets into the design to reduce noise, vibration and chain chordal action while increasing chain and sprocket life. Our goal is to reduce maintenance and operating costs for the user.



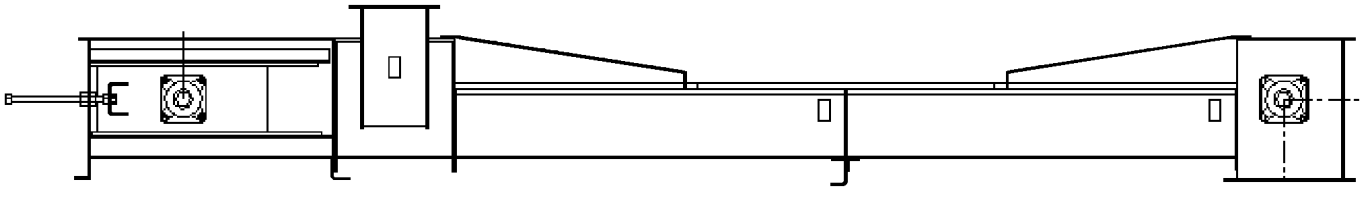


Standard Features

- Bolted Flanged Covers
- Welded Steel Chain
- Jig Welded Attachments
- UHMW Flights with Heavy Duty Backing Plate
- Dust Tight Form Flanged Trough
- Heat Treated Sprockets
- Rail Return System
- Flow Thru Inlet

Popular Options

- By-Pass Inlets
- Hip Roof Covers
- Self-Cleaning Tail
- Intermediate Discharges
- Idler Return System
- Abrasive Resistant Steel Return Wear Strip
- Split Sprockets



MartinRound Bottom Drag Conveyor (MRB™)

Drag Conveyor Maintenance Tips



Field assembly of MartinMFB™ Drag

Assembly

Return Rails

Assure all return rails are adjusted so they match up evenly at the joints; be sure to grind any burrs off the rail joints. The vertical alignment of the rails is most critical on drags having outboard return rails.

Tightening the Chain

Tightening the chain on initial startup may require the removal of several links of chain. On drags with welded steel chain there will be a 10' section of cottered chain marked at the factory by contrasting spray paint. Do not over tighten the chain; always remember that the take-up control's the chain tension on the return strand. The carrying strand is naturally in tension.

Chain tension is one of the most import aspects of maintaining your drag. Never over tighten the drag chain. The tension should be tightened till the chain is pulled or stripped from the head sprocket but no tighter. Slack side tension can be helped by the use of mechanical devices such as an Slack Side Tension Idler Sprocket or stripper rail.

An under tightened chain will want to stay engaged with the head sprocket tooth and rap around the head sprocket. A catastrophic failure can be the result of an under tensioned chain. Regular chain inspection is important especially during the initial start-up period, make take-up adjustments as needed.

On **L-Path drags** the best place to watch and adjust the tension is at the bottom bend section and at the tail sprocket. The Slack Accommodating lower bend is an especially convenient way to look at and determine the optimum tension. Adjust tension till the chain is several inches off the divider plate and moves up and down as it runs. The chain movement is a result of chordal action caused by the sprocket (much more noticeable with sprockets having less than 12 teeth). The chain should move freely but should not hit the divider plate. The chain should be snug but not tight at the tail. The chain should disengage smoothly from the head sprocket. Once the drag is running to your satisfaction, mark on the side of the SA Bend near the inspection panel the proper location of the chain so that future adjustments are easily determined. By looking through the inspection panel you can see if the chain needs adjusted or links removed. With an L-path drag of more than 30 degrees incline you control the tension from the tail to the lower bend with the take-up; gravity takes care of tension on the incline section.

On the **Super Duty drag** the take-up adjustment is made at the Slack Side Tension Idler Sprocket in the head and at the tail. You adjust the take-ups till there is slight sag of the chain coming off the Slack Side Tension Idler Sprocket, located in the head. The chain at the tail should be snug but not tight. The chain should be smoothly disengaging the head sprocket. Mark the location of the chain when it is properly tensioned on the side of the transition cover at the inspection panel near the head, making future adjustments easier.

The **Flat Bottom and Round Bottom drags** chain tension adjustment is done at the tail by tensioning the chain till it is snug but not tight, you should be able to lift the chain when the drag is not running. Observe proper lockout and tag out procedures when maintaining the drag conveyor. With the chain running confirm that the chain is disengaging the head sprocket smoothly.

The **Mill Duty drag**'s chain tension is either adjusted like a Flat Bottom drag or a Super Duty drag depending on the type of head section your drag is furnished with.

Sprocket Alignment

Assure that the sprocket is located in the center of the head and tail sections. Also check that all set screw or set collars are correctly tightened. Assure the sprockets are in alignment with each other, a laser is a useful tool to check sprocket alignment.

Lubrication

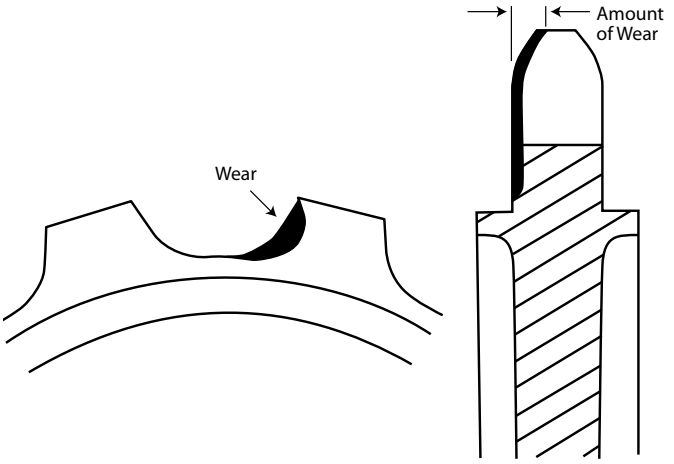
Assure that all bearings are properly lubricated with the manufacture's specified lubricant.

Assure all drives have the correct and adequate oil. ***Many drives are shipped without oil.***

Drag Conveyor Maintenance Tips



Weld Steel Chain and MFB Tail™



Sprocket Wear

Common Operating Mistakes

Over Tightening the Chain

Over tightening the chain is the most common mistake and will cause accelerate chain and sprocket wear. Over tightening of the chain can also increase the wear of the drag flights, reduce bearings life and can cause damage to the shafts. It is better to slightly under tighten the chain than over tightening the chain.

Uneven Take-up Adjustment

Always adjust the take ups evenly and when the drag is not running. Uneven adjustment of the chain can cause accelerated chain, sprocket and flight wear. Uneven adjustment of the take ups may cause the chain to run to one side of the trough causing accelerated trough wear. It may be necessary to use the take up to get chain to run straight but should be minimized and can be an indication of an installation issue.

Not Checking Chain Wear

Set up and follow a preventative maintenance plan that includes regular inspection of the chain for stretch/wear. Chains tend to wear in during the initial operation of the chain so need to be inspected more often during the first 3 months of operation. Adjust the take-ups or remove chain links as needed to maintain proper tension.

Maintenance Tips

Chain Wear

Conveyor chain stretch is commonly used to identify when a drag chain is worn out. It is usually described as a percent of stretch and a commonly used range is 4% to 6% but it is Martin's recommendation that the user contact the chain manufacturer for their recommendation.

When replacing the drag chain it is Martin's recommendation to also replace the sprockets.

Sprocket Wear

As sprockets are worn, the drag chain tends to "cling" to the sprockets or vibrate. The amount of allowable wear is dependent on the chain type and chain size. Wear of between .12" to .24" is a good sign that the existing sprocket needs replaced. The wear appears in the root of the sprocket tooth.

Wear on the side of the tooth is an indication that the alignment of the sprockets may be incorrect. The wear may be an indication that the take-ups are not evenly adjusted or that sprockets are not in alignment. The mis-alignment can be caused by the shaft walking in the bearing or the sprocket moving caused by the set screw being loose. It is also important to assure that the shafts are parallel to each other.

Flight Wear

Accelerated flight wear can have several causes but the most common is the high material temperature. Material temperatures are most critical when dealing with non-metallic flights. It is important to check flight wear whenever your process has changed. Chain speed is always a component of flight wear and slower is better when wear is an issue. The chain tension should be checked if flight wear becomes an issue.

Anytime your process or the material changes it may have an effect on flight wear, chain wear and sprocket wear.

Make sure you have and follow a regular preventative maintenance inspection plan that is based on your operating conditions.

Assure you have a Safety Program that includes a Lockout/ Tag out Program.



Standard Screw Elevator

SECTION VIII

VERTICAL SCREW ELEVATOR SECTION VIII

Introduction.....H-158
Screw Elevator Types H-159
Standard Components H-160
Standard Screw Elevator Speed and Capacity.....H-161
Type B Dimensions.....H-162
Super Screw Elevator Speed and Capacity.....H-163
Super Screw Drive Unit H-164
Super Screw Elevator Dimensions H-165

Screw Elevator

Martin Screw Elevators

For over fifty years, Martin Standard Screw Elevators have been successfully elevating a wide range of materials. In 1956, we added the heavier duty Superscrew Elevator, giving our customers the ability to elevate larger capacities to greater heights.

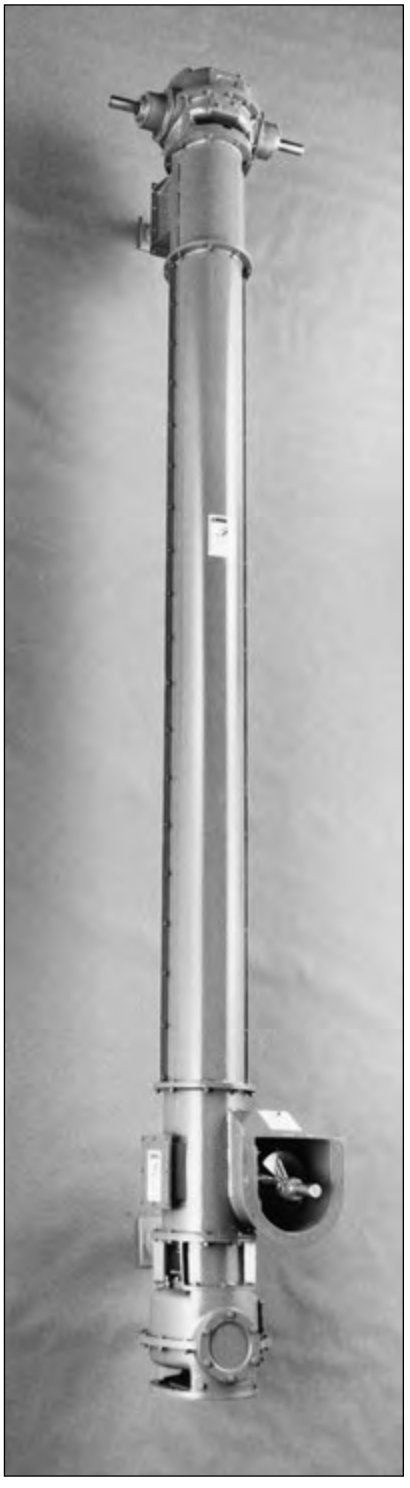
The Martin Screw Elevator is ideally suited to elevate a wide range of bulk materials in a relatively small space. If a material can be classified as very free flowing or free flowing, it can probably be elevated in a Screw Elevator.

We offer both our Standard and Superscrew Elevators with several different drive arrangements to meet our customers' individual requirements. Martin has an experienced staff in over twenty locations throughout the U.S.A. and Canada that can help you design the right screw elevator for your application. We have the capability of manufacturing our screw elevators in six locations in the U.S.A.

Contact your nearest Martin facility with your application information and we will design the right elevator for your needs.

Partial Material List

Alfalfa Meal	Mixed Feeds
Barley, Malted	Mustard Seed
Bone Meal	Oats
Cement	Paper Pulp
Coffee	Peanuts
Corn Meal	Resin
Cotton Seed	Rubber, Ground
Cryolite	Salt
Flours	Sawdust
Grains	Screened Wood Chips
Hops	Shellac, Powder
Ice	Soda Ash
Kaolin Clay	Soybean Meal
Lead Oxide	Sugar
Lime	Sunflower Seeds
Malt	Tobacco
Mica	Wheat
Milk, Dried	Wood Flour



Type 4
Superscrew Elevator

*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

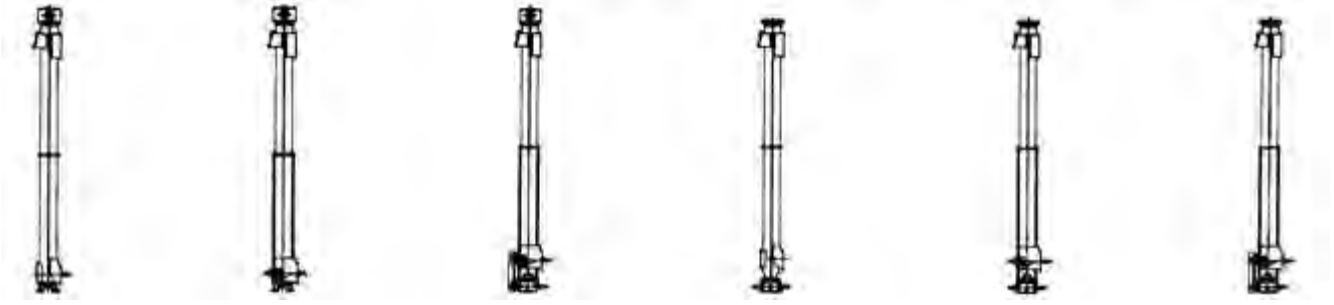
Martin Screw Elevators

To help better meet the needs of our customers, we offer both the Martin Standard and Superscrew Elevators in sixteen different types. The different types allow us to vary the drive location, discharge location and feed arrangement. We are also able to drive the feeder or take-away conveyor by the screw elevator drive.

The Martin Screw Elevators are easy to install because they are factory assembled, match-marked and disassembled prior to shipment. All Martin Screw Elevators are of a sturdy self-supporting design and only need lateral support when installed.

The drives for the Martin Standard and Superscrew Elevators are manufactured by Martin and are specifically designed for use with our screw elevators. We can also offer a Screw Conveyor Drive arrangement for lighter duty applications.

Standard Screw Elevator Types



Type B
Straight Inlet
Top Drive,
Pedestal Base

Type BO
Offset Inlet
Top Drive,
Pedestal Base

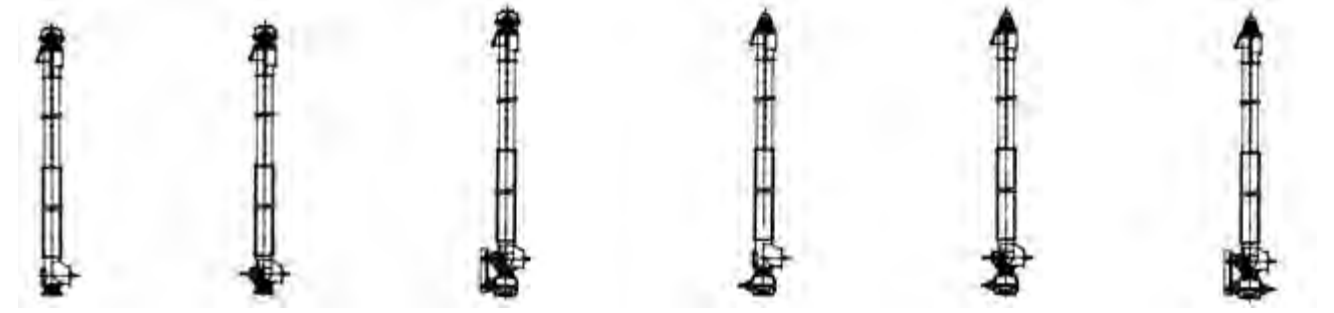
Type AF2
Offset Inlet
Top Drive,
Bottom P.T.O.
With Drive

Type EAF1
Straight Inlet
Bottom Drive,
Thrust Head

Type HAF2
Offset Inlet
Bottom Drive,
Thrust Head
With Drive

Type IAF-2
Offset Inlet
Bottom Drive,
Thrust Head

SuperScrew Elevator Types



Type 1
Straight Inlet
Top Drive,
Pedestal Base

Type 2
Offset Inlet
Top Drive,
Pedestal Base

Type 4
Offset Inlet
Top Drive,
Bottom P.T.O.
With Drive

Type 5
Straight Inlet
Bottom Drive,
Thrust Head

Type 6
Offset Inlet
Bottom Drive,
Thrust Head

Type 8
Offset Inlet
Bottom Drive,
Thrust Head
With Drive

NOTE: All elevators are furnished less feeder and/or feeder drive unless otherwise specified.

CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

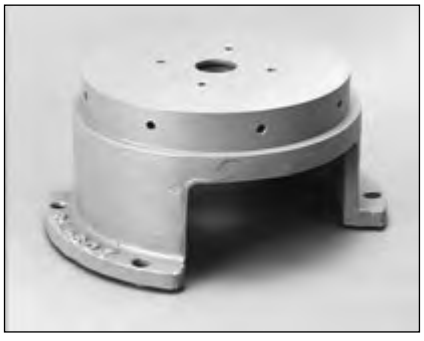
Screw Elevator



Standard Screw Thrust Unit



Stabilizer Bearing Used on Standard Screw Elevator



Standard Screw Pedestal Base



Standard Screw Thrust Head

All Martin Screw Elevators come with heavy duty helicoid or sectional screws which are checked for straightness and run-out to ensure a smooth running elevator. When handling free flowing material, we add stabilizers as needed, as the height of the elevator increases. The stabilizer bearings are available in a wide range of bearing materials to meet our customers' requirements, including wood, hard iron, bronze, UHMW, and others.

Both the Martin Standard Screw and Superscrew Elevators are supplied with split intermediate housing to allow easier maintenance.

Martin's specially engineered inlet/bottom section assures a smooth transfer to conveyed material from the horizontal to vertical with a minimum of back-up and product degradation.

The bottom inspection panel is bolted to minimize any product leakage. It also has a shroud to assure that the conveyed material is moving smoothly through the area.

The drives for both the Standard Screw and the Superscrew Elevator are manufactured by Martin to guarantee their quality and availability.

Clearance Between Screw and Housing

Size	Type of Housing	Clearance	Standard Elevator			Super Screw Elevator		
			Intermediate	Top and Bottom Sectons	Screw	Intermediate	Top and Bottom Sectons	Screw
6	Standard Clearance	1/2	14	14	6H304	14	10	6H304
	Close Fitting Clearance	1/4	14	14	6.5S312*	14	10	6.5S312*
9	Standard Clearance	1/2	12	12	9H306	12	3/16	9H306
	Close Fitting Clearance	1/4	12	12	9.5S312*	12	3/16	9.5S312*
12	Standard Clearance	1/2	10	10	12H408	10	3/16	12H408
	Close Fitting Clearance	1/4	10	10	12.5S412*	10	3/16	12.5S412*
16	Standard Clearance	1/2				10	3/16	16H610
	Close Fitting Clearance	1/4				10	3/16	16.5S612*

* Close clearance sectional screws supplied as required.

Standard Screw Elevator

The Martin Standard Screw Elevator is designed to handle under normal conditions, capacities ranging from 360 CFH to 3600 CFH in 6" dia., 9" dia., and 12" dia. sizes. With complete information, Martin engineering staff can help you design the right Screw Elevator for your application.

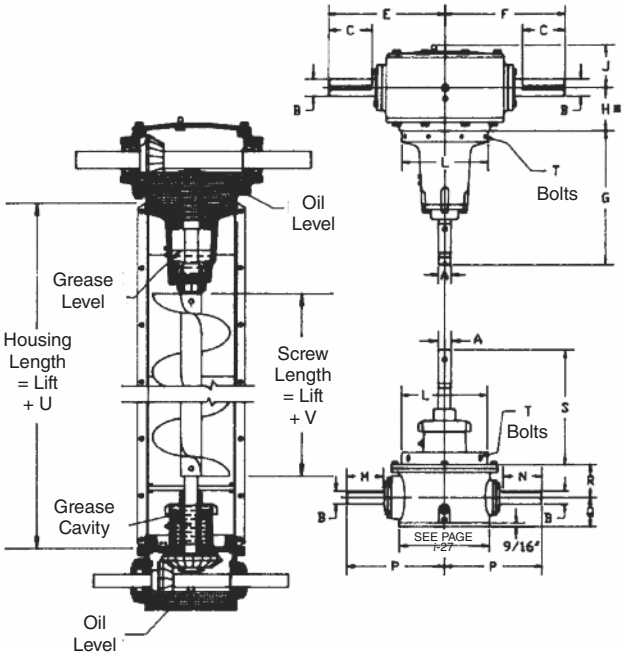
Martin Standard Screw Elevator Speed / Capacity

Size	Vertical Shaft Diameter	Ratio Top Drive	Ratio Bottom Drive	▲ Recommended Minimum and Maximum Speeds			RPM Horizontal Feeder Screw 45 Percent Loading	Capacity Cubic Foot per Hour
				Vertical Screw	Input Top Drive	Input Bottom Drive		
6	1½	2:1	1.4:1	200	400	280	165	360
				215	430	301	177	400
				275	550	385	226	500
9	1½	2:1	1.4:1	170	340	238	139	1100
				200	400	280	163	1300
				230	460	322	187	1500
12	2	2:1	2:1	155	310	310	147	2700
				165	330	330	156	3000
				200	400	400	189	3600

▲ For speeds in excess or less than shown, consult Martin.

The Standard Screw Elevator drive unit will function efficiently with the elevator erected at any angle of incline from horizontal to vertical. The input shaft can be driven in either direction, and the input shaft extension may be used to drive a horizontal feeder or discharge conveyor.

Both top and bottom drives are required when the elevator, feeder and discharge conveyor are all driven from one power source. A top drive and pedestal base are used when the elevator and discharge conveyor are driven from one source. A bottom drive and thrust unit are necessary if the elevator and feeder are driven from one power source. The drives are designed and constructed to withstand all radial and thrust loads and support the entire weight of a fully loaded elevator.



Size	Ratio		A	B		C	E	F	G	H	J	L	M	N	P	Q	R	S	T Bolts		U		V
	Top Drive	Bottom Drive		Top Drive	Bottom Drive														No. Rec'd	Size	B & BO	All Other Types	All Types
6*	2:1	1.4:1	1½	2	1½	5	13½	14	15¼	7⅝	4 15/16	7	4¼	4½	11 1/32	3⅜	3 13/16	13¼	4	⅜-16 NC	16⅞	23⅛	6⅝
9	2:1	1.4:1	1½	2	1½	5	13½	14	15¼	5	4 15/16	10	4¼	4½	11 1/32	3⅜	3 13/16	13¼	8	⅜-16 NC	21½	27¾	8¾
12	2:1	2:1	2	2	2	5	13½	14	15¼	4⅞	4 15/16	13	5	5 5/16	14 7/16	3⅞	4 9/16	13¼	8	½-13 NC	26	31¾	12¾

*2⅝" lg. adapter for 6" head not illustrated

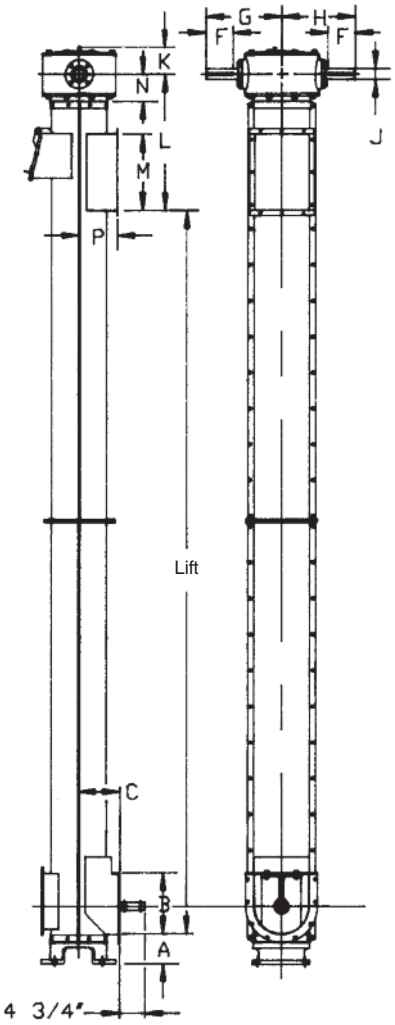
CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

Note: Dimensions not certified for construction.

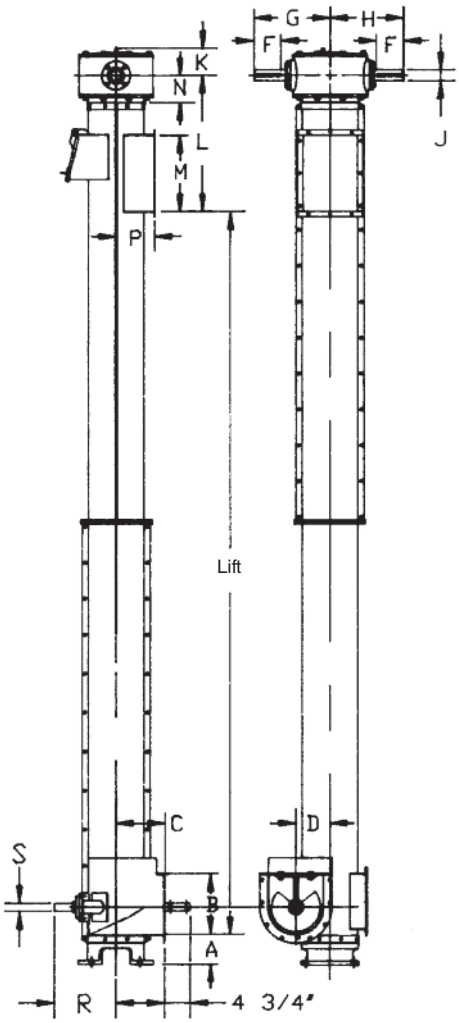
Dimensions in Inches

Standard Screw Elevator

Type B



Type BO



Screw elevator shown is offset to right for illustration purpose only. This elevator will normally be furnished offset to left, unless otherwise specified. See page H-159 for typical elevator arrangements.

Type BO

Size of Elevator	A	B	C	D	F	G	H	J	K	L	M	N	P	R	S
6	6	8	9	4¾	5	13½	14	2	4 15/16	23	12	7⅝	5½	11⅜	1½
9	5½	11⅛	9	6¼	5	13½	14	2	4 15/16	25	14	5	7⅛	11⅜	1½
12	8	14¼	15	8	5	13½	14	2	4 15/16	29	18	4⅞	8¾	14 7/16	2

Type B

Size of Elevator	A	B	C	F	G	H	J	K	L	M	N	P
6	6	8	9	5	13½	14	2	4 15/16	23	12	7⅝	5½
9	5½	11⅛	9	5	13½	14	2	4 15/16	25	14	5	7⅛
12	8	14¼	15	5	13½	14	2	4 15/16	29	18	4⅞	8¾

Dimensions in Inches

Note: Dimensions not certified for construction.

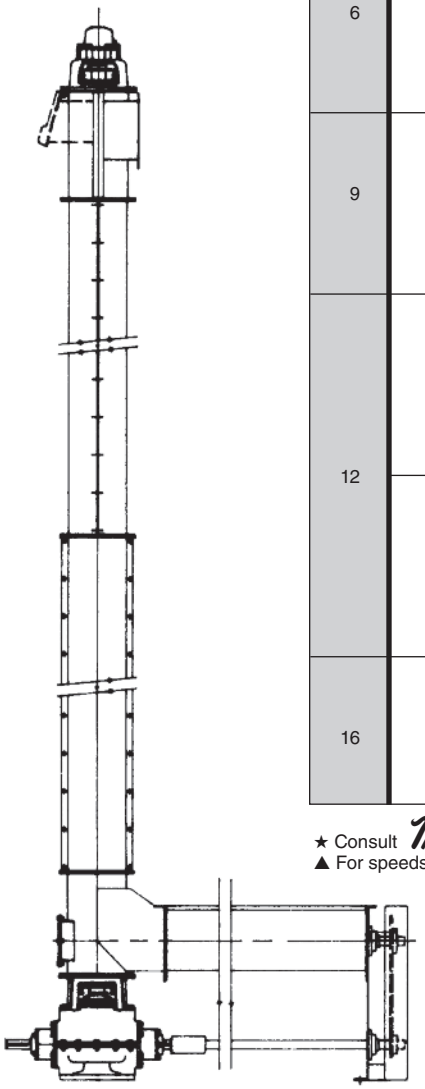
Super Screw Elevator

The Martin Superscrew Elevator is designed to handle capacities ranging from 360 CFH to 7000 CFH in 6" dia., 9" dia., 12" dia., and 16" dia. sizes.

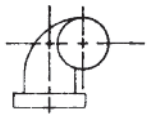
Martin SuperScrew Elevator Speed / Capacity

Size	Vertical Shaft Diameter	Ratio Top Drive	Ratio Bottom Drive	▲ Recommended Minimum and Maximum Speeds			RPM Horizontal Feeder Screw 45 Percent Loading	Capacity Cubic Foot per Hour
				Vertical Screw	Input Top Drive	Input Bottom Drive		
1	2	3	4	5	6	7	8	9
6	1½	2:1	2:1	200	400	400	165	360
				215	430	430	177	400
				275	550	550	226	500
				330	660	660	272	600
				Up to 425	Up to 850	Up to 850	★	★
9	2	2:1	2:1	170	340	340	139	1100
				200	400	400	163	1300
				230	460	460	187	1500
				240	480	480	196	1600
				Up to 425	Up to 850	Up to 850	★	★
12	2 7/16	2:1	2:1	155	310	310	147	2800
				165	330	330	156	3000
				200	400	400	189	3600
				210	420	420	199	3800
				Up to 425	Up to 850	Up to 850	★	★
	2 7/16★ 3	2.06:1	2.06:1	155	319	319	151	2800
				165	340	340	161	3000
				200	412	412	195	3600
				210	433	433	205	3800
				Up to 425	Up to 876	Up to 876	★	★
16	3	2.06:1	2.06:1	138	284	284	132	6000
				150	309	309	144	6500
				161	332	332	155	7000
				Up to 425	Up to 876	Up to 876	★	★

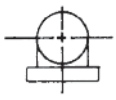
★ Consult Martin.
▲ For speeds in excess or less than those shown, consult Martin.



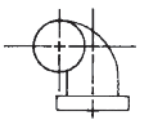
Type 7 Superscrew Elevator



Elevator Offset to the Right of Inlet



Straight Inlet



Elevator Offset to the Left of Inlet

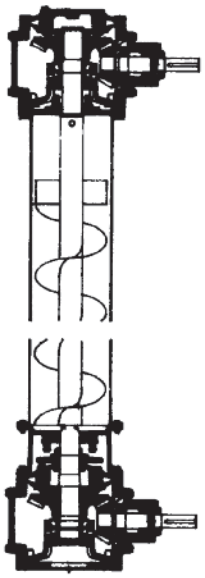
CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

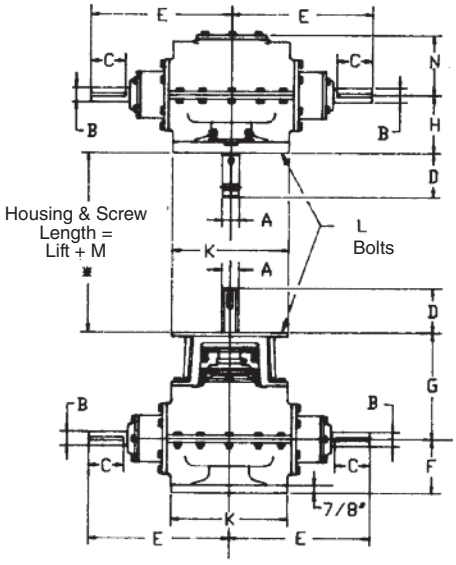
Super Screw Elevator

Super Screw Elevator D.S.D. (Dry Shaft Drive)









DSD (Dry Shaft Drive) is a completely new design and construction concept especially developed to enable the SuperScrew Elevator to broaden the application of screw elevators.

The DSD unit is designed to meet special conditions encountered in vertical installations and may be installed in the range of 70° to 90° incline. If a smaller angle of incline is required, special units may be furnished.

A patented lubrication system precisely "meters" the proper amount of lubricant to those points where needed with no danger of damaging seals.

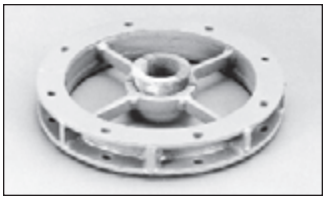
DSD units may be furnished at both the top and the bottom of the elevator. The top drive incorporates special design features to assure that no lubricant may pass into the elevator to contaminate the material being elevated. In the bottom drive unit other special features prevent entrance of foreign material into lubricant.

DSD units may also be furnished at the top only with a pedestal base or at the bottom only with a thrust head.

The compactness of the DSD requires a minimum of head room providing maximum lift with minimum overall elevator height.

DSD units are sturdily constructed to withstand all radial and thrust loads encountered and to support the entire weight of elevators and materials handled.

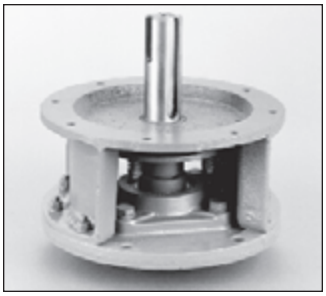
Size	Ratio	A	B	C	D		E	F	G	H	K	L		M
					Top	Bottom						No.	Size	
6	2:1	1½	1⅝	4	4¾	5	16	6⅛	12	7½	10⅛	8	⅜	12¼
9	2:1	2	1⅝	4	4¾	5	16	6⅛	12	7½	13¼	8	⅜	13¼
12	2:1	2 7/16	1⅝	4	4⅞	5	16	6⅛	12	7½	16¼	8	½	18¼
	2.06:1	2 7/16	1⅝	4¼	4⅞	5	18.1	6⅞	12⅝	7¼	17¼	8	½	18¼
	2.06:1	3	2 3/16	4¼	5	5	18.1	6⅞	12⅝	7¼	17⅜	8	½	18¼
16	2.06:1	3	2 3/16	4¼	5	5	18.1	6⅞	12⅝	7¼	20¼	12	½	24¼



Spider Type Stabilizer
Used on SuperScrew



SuperScrew
Thrust Head

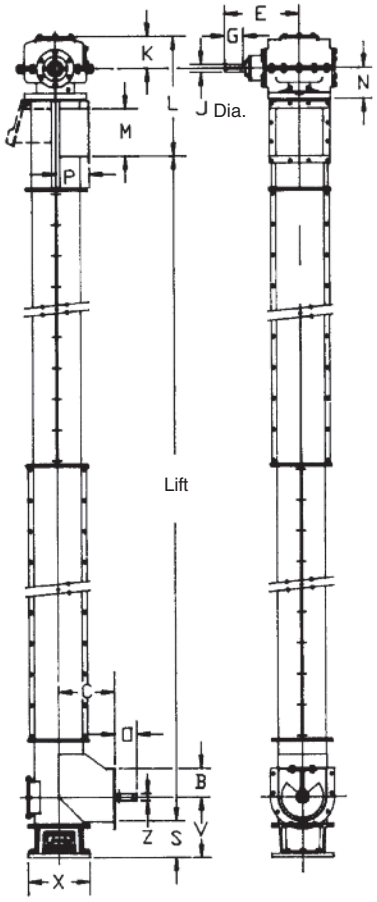


SuperScrew
Pedestal Base

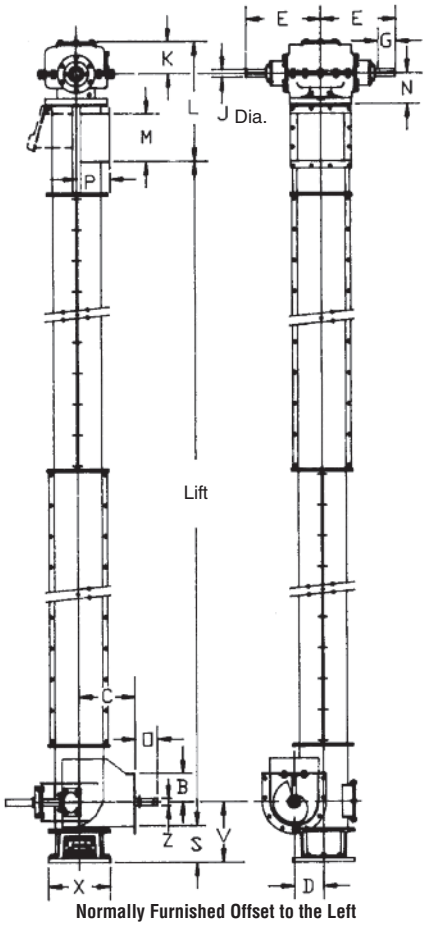
Note: Dimensions not certified for construction.

Super Screw Elevator Dimensions

Type 1



Type 2



Normally Furnished Offset to the Left

Type 1

Size of Elevator	Vert. Shaft Dia.	Ratio	B	C	E	G	J	K	L	M	N	O	P	S	V	X	Z ◇
6	1½	2:1	4½	10½	16	4	1⅝	6¾	26¾	7	6½	4¾	5	8⅜	11⅞	13¼	1½
9	2	2:1	6⅛	12	16	4	1⅝	6¾	28¼	10	6½	4¾	7⅛	7⅞	12⅞	13¼	1½
12	2 7/16	2:1	7¾	15	16	4	1⅝	6¾	32¼	13	6½	4¾	8⅞	8⅞	15⅜	13¼	2
	○ 2 7/16	2.06:1	7¾	15	18.1	4¼	2 3/16	7 15/16	34⅜	13	7¼	4¾	8⅞	9	15½	17⅜	2
	3	2.06:1	7¾	15	18.1	4¼	2 3/16	7 15/16	34⅜	13	7¼	4¾	8⅞	9	15½	17⅜	2
16	3	2.06:1	10⅝	20	18.1	4¼	2 3/16	7 15/16	39⅞	17	7¼	5	11⅛	9½	18	17⅜	3

Type 2

Size of Elevator	Vert. Shaft Dia.	Ratio	B	C	D	E	G	J	K	L	M	N	O	P	S	V	X	Z ◇
6	1½	2:1	4½	10½	4¾	16	4	1⅝	6¾	23¾	7	6½	4¾	5	8⅜	11⅞	13¼	1½
9	2	2:1	6⅛	12	6¼	16	4	1⅝	6¾	25¼	10	6½	4¾	7⅛	7⅞	12⅞	13¼	1½
12	2 7/16	2:1	7¾	15	8	16	4	1⅝	6¾	29¼	13	6½	4¾	8⅞	8⅞	15⅜	13¼	2
	○ 2 7/16	2.06:1	7¾	15	8	18.1	4¼	2 3/16	7 15/16	31⅜	13	7¼	4¾	8⅞	9	15½	17⅜	2
	3	2.06:1	7¾	15	8	18.1	4¼	2 3/16	7 15/16	31⅜	13	7¼	4¾	8⅞	9	15½	17⅜	2
16	3	2.06:1	10⅝	20	10½	18.1	4¼	2 3/16	7 15/16	36¾	17	7¼	5	11⅛	9½	18	17⅜	3

Dimensions in Inches

◇ Horizontal coupling diameter may vary upon length of feeder.

○ Consult Martin before using.

CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

Note: Dimensions not certified for construction.

Modular Plastic Screw

SECTION IX

MODULAR PLASTIC SCREW SECTION IX

Introduction.....H-166
Warning and Safety Reminder H-167
Technical and Design Data.....H-168 – H-169

Another Martin patented Innovation. We'll give your customers another reason to give you their business.



- Plastic modules consist of a helical flight spiraling once around a hollow square hub.
- Eliminates need to spot or continuously weld metal flights to shaft.
- Polyurethane - used where impact/abrasive wear is a problem. Lab tests show it up to 3 times more wear resistant than carbon or stainless steel in certain applications.
- All-plastic material does not corrode, is impervious to acids, caustics and other chemicals.
- Durable, lightweight injection-molded modules stack on square tube.
- Polypropylene - general purpose material for high temperature service.
- FDA approved for food contact.
- Highly resistant to corrosion.
- Modules are individually replaceable without welding or burning.
- Assembled conveyor is comparatively lightweight, easier to handle, and bearing life is prolonged.
- Polyethylene - general purpose material. FDA approved for food contact.
- Good abrasive and excellent corrosion resistance in a wide temperature range.
- Slick surface simplifies cleaning.

*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

WARNING & SAFETY REMINDER

Safety must be considered a basic factor in machinery operation at all time. *Most accidents are the results of carelessness or negligence.* All rotating power transmission products are potentially dangerous and must be guarded by the contractor, installer, purchaser, owner, and user as required by applicable laws, regulations, standards, and good safety practice. Additionally specific information must be obtained from other sources including the latest editions of American Society of Mechanical Engineers; (ANSI) Safety Code. A copy of this standard may be obtained from the American Society of Mechanical Engineers at 345 East 47th Street, New York, NY 10017 (212-705-7722).

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate the parts or components manufactured and supplied by Martin Sprocket & Gear, Inc., in such a manner as to comply with the Williams-Steiger Occupational Safety Act and with all state and local laws, ordinances, regulations, and the American National Standard Institute Safety Code.

CAUTION

Guards, access doors, and covers must be securley fastened before operating any equipment.

If parts are to be inspected, cleaned, observed, or general maintenance performed, **the motor driving the part or components is to be locked out electrically in such a manner that it cannot be started by anyone**, however remote from the area. Failure to follow these instructions may result in personal injury or property damage.

WARNING

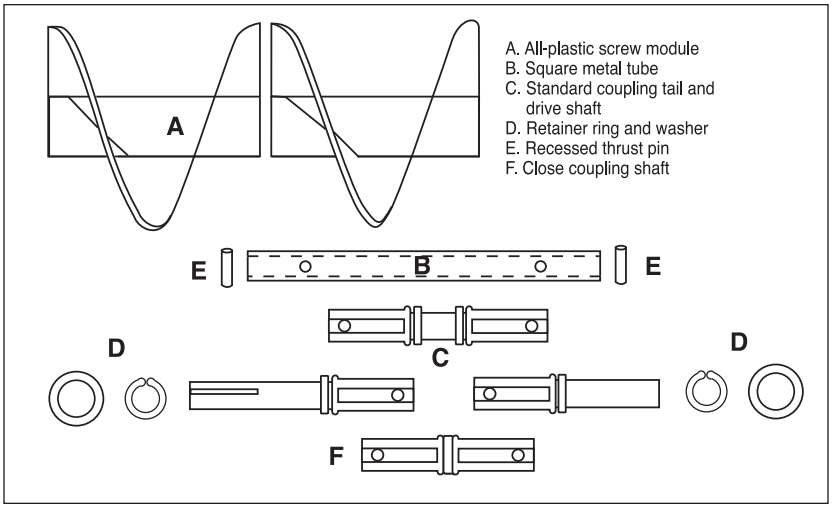
Warning: Static Electricity

Static Electricity may accumulate on modular plastic conveyor screws which carry non-conductive materials and may produce an electrical spark. **Do Not Use to Convey Non-Conductive Materials in a Combustible Environment.**

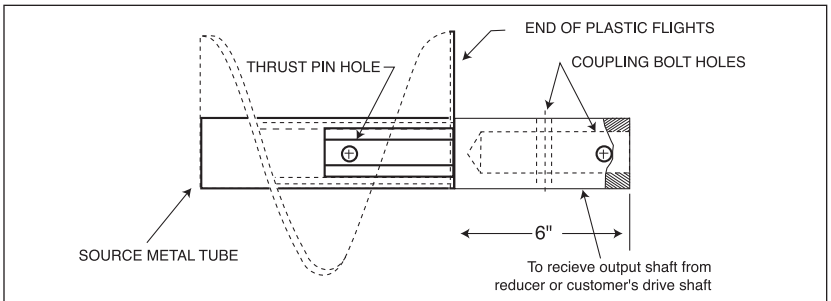
Modular Plastic Screw Conveyors - Design Data

Martin Solutions to Screw Conveyor Problems

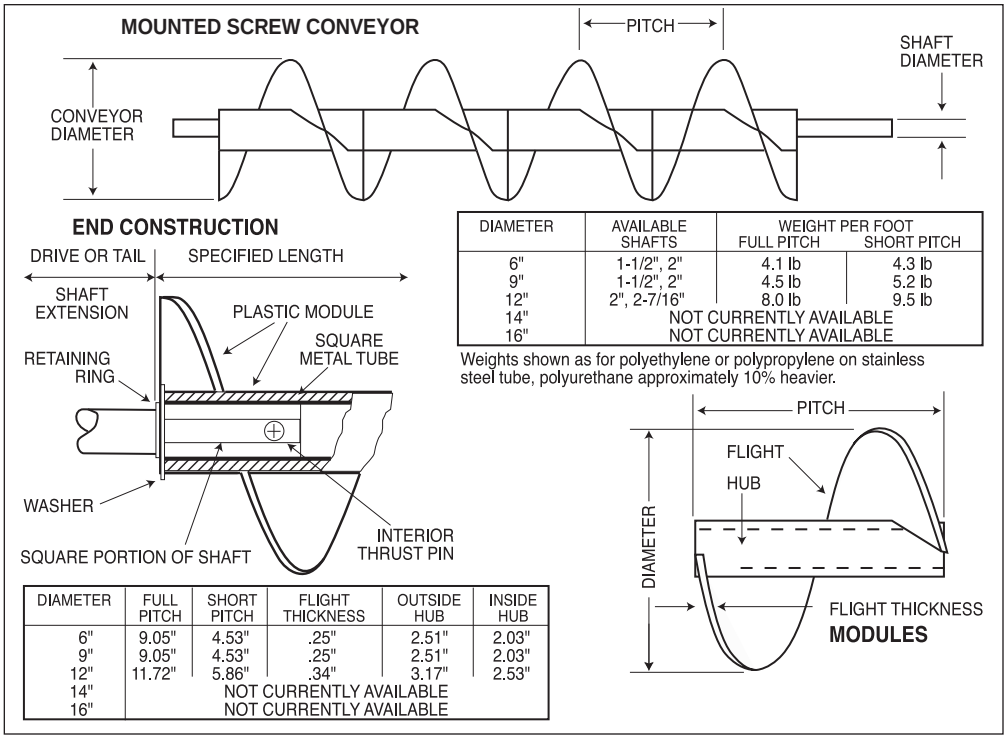
- Currently available in 6", 9" and 12" diameters, in right hand only.
- Assembled conveyors compatible with CEMA standards; easily retrofitted.
- Flight modules available in polyethylene, polypropylene, and polyurethane, each with characteristics to fill specific needs (see Technical Data).
- Flights and hubs are integrally molded, resulting in consistent diameter, pitch and thickness with a uniform, smooth finish.
- Plastic modules eliminate metal contamination to food.
- Assembled conveyor is light in weight, is safe and easy to handle; bearing life is prolonged.
- Plastic flights may operate at close clearances, or when conveying many materials, directly on the trough without danger of metal contamination.
- Modules are individually replaceable.
- Balance is excellent allowing high speed operation.



The Martin Screw Conveyor System consists of plastic modules stacked on a square metal tube. A shaft is inserted at each tube end and secured by a recessed pin. Modules are secured at tube ends by retainer rings and washers.



EXTERNAL ADAPTOR FOR STANDARD INDUSTRIAL CONSTRUCTION



DIAMETER	AVAILABLE SHAFTS	WEIGHT PER FOOT FULL PITCH	WEIGHT PER FOOT SHORT PITCH
6"	1-1/2", 2"	4.1 lb	4.3 lb
9"	1-1/2", 2"	4.5 lb	5.2 lb
12"	2", 2-7/16"	8.0 lb	9.5 lb
14"	NOT CURRENTLY AVAILABLE		
16"	NOT CURRENTLY AVAILABLE		

Weights shown as for polyethylene or polypropylene on stainless steel tube, polyurethane approximately 10% heavier.

DIAMETER	FULL PITCH	SHORT PITCH	FLIGHT THICKNESS	OUTSIDE HUB	INSIDE HUB
6"	9.05"	4.53"	.25"	2.51"	2.03"
9"	9.05"	4.53"	.25"	2.51"	2.03"
12"	11.72"	5.86"	.34"	3.17"	2.53"
14"	NOT CURRENTLY AVAILABLE				
16"	NOT CURRENTLY AVAILABLE				

Screw Conveyor Capacities

CUBIC FEET PER HOUR PER R.P.M. FULL PITCH HORIZONTAL				
DIAMETER	PITCH	CONVEYOR LOAD		
		FULL	45%	30%
6"	9"	5.72	2.75	1.72
9"	9"	16.73	7.53	5.02
12"	12"	39.27	17.67	11.78
14"	14"	NOT CURRENTLY AVAILABLE		
16"	16"	NOT CURRENTLY AVAILABLE		

Maximum Recommended Conveyor Speed / Horizontal Operation / R.P.M.

DIA.	SHAFT	TYPE OF INTERMEDIATE BEARING	
		WOOD, NYLATRON, BRONZE	CLOSE COUPLED*
6"	1-1/2"	165	90
9"	1-1/2"	165	80
9"	2"	150	80
12"	2"	145	70
12"	2-7/16"	140	70
14"	2-7/16"	NOT CURRENTLY AVAILABLE	
14"	3"	NOT CURRENTLY AVAILABLE	
16"	3"	NOT CURRENTLY AVAILABLE	

* Close coupled limitations apply to screw lengths over 12 ft. (for 6" and 9" dia.) or 15 ft. (for 12" dia). For longer lengths or units without intermediate bearing supports, locate end bearing no more than 3-1/8" (for 6" size); 4-5/8" (for 9" size); or 6-1/8" (for 12" size); centers above the inside bottom of the conveyor trough.

Horsepower Ratings

DIA.	SHAFT	RATINGS FOR CARBON STEEL SHAFT AND TUBE			
		50 R.P. M.	75 R.P.M.	100 R.P.M.	150 R.P.M.
6"-9"	1-1/2"	3.4	5.1	6.8	10.1
6"-9"	2"	5.6	8.4	11.2	16.8
12"	2"	8.0	12.0	16.0	24.0
12"	2-7/16"	9.1	13.6	18.2	27.3
14"	2-7/16"	NOT CURRENTLY AVAILABLE			
14"	3"	NOT CURRENTLY AVAILABLE			
16"	3"	NOT CURRENTLY AVAILABLE			

NOTE: The above limitations are based on Martin modular plastic construction throughout. The use of coupling bolts, as required for an external adaptor, may reduce horsepower capacity.

Materials of Construction

	POLYETHYLENE	POLYPROPYLENE	POLYURETHANE
FDA Approved	Yes	Yes	No
Abrasive Resistance	Good	Fair	Excellent
Corrosive Resistance	Excellent	Excellent	Good
Impact Resistance	Good	Fair	Excellent
Temperature Limit	-60º to +150º F	+40º to +220º F	-20º to +150º
Release	Excellent	Good	Good

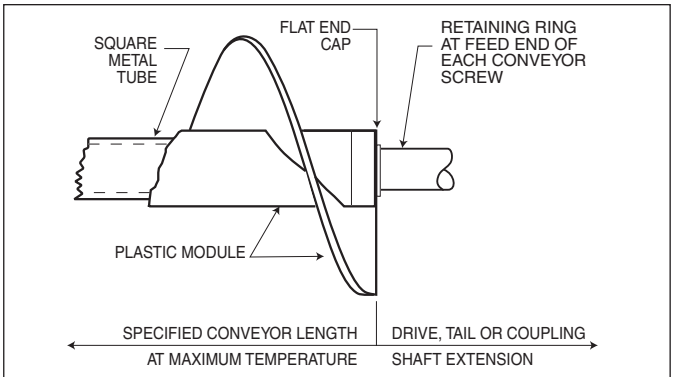
Note: Release pertains to the capability of conveying “sticky” products.

Design Data for Bonded Construction

Bonded Construction is used in the handling of a finished food product or for the conveying of any product in which it is necessary to guard against material entering the internal clearances between the modules or into the inside of the square tube.

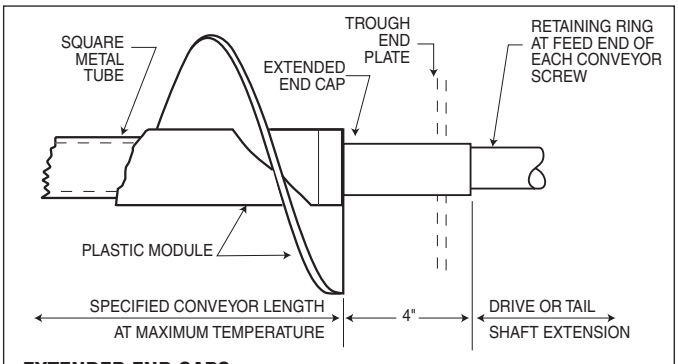
The hubs of the individual modules are heat fused together, the ends of the flights may be fused or may be cut to create a “clean out” gap, usually 1/8" to 1/4" wide. The ends are capped and fitted with an “O” ring to seal around the shaft. The cap may be of alternate construction as detailed below.

Bonded Construction has USDA acceptance for use as a component part of food processing equipment in federally inspected meat and poultry processing plants.



FLAT END CAPS

Flat End Caps are the basic construction for conveying finished food products. Drive and Tail End Shafts are shipped factory installed. If used with coupling shafts, the thrust bearing must be at the feed end of the conveyor assembly. Retaining ring may be eliminated in some applications depending upon length and temperature involved.



EXTENDED END CAPS

Extended End Caps are used in the handling of products which require a total elimination of cracks and crevices on the conveyor screw. This precludes the use of coupling shafts and therefore limits the unit to one conveyor length, a maximum of 20 feet. Retainer rings and shafts are entirely outside the product area. Drive and Tail End Shafts are shipped factory installed.

Shaftless Screw Conveyors

SECTION X

Typical Applications H-171
Feature, Function & Benefit H-171
Size and Capacity.....H-172

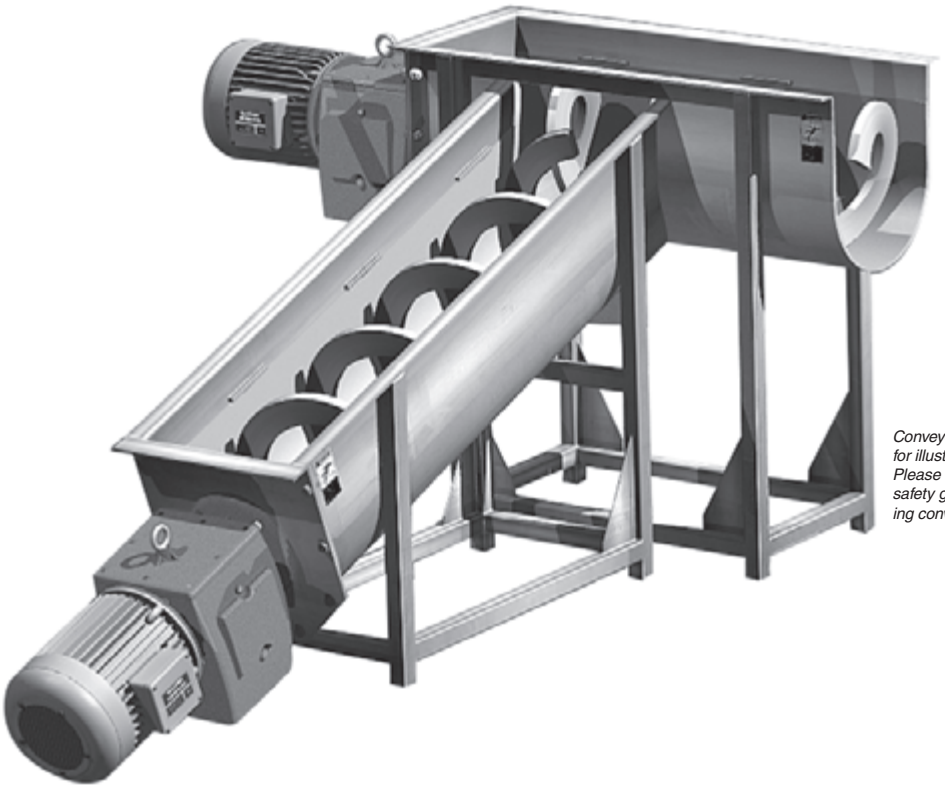
Martin Shaftless Screw Conveyors – The Problem Solver

Martin Shaftless Screw Conveyors are the ideal solution for hard-to-transport materials ranging from irregularly shaped dry solids such as scrap wood and metals, to semi-liquid and sticky materials including pulp, compost, food-processing refuse, hospital waste, and wastewater products.

Martin Shaftless Conveyors' simple, pipeless design employs fewer parts than conventional shafted-screw conveyors, reducing lifetime maintenance costs. It enables higher trough loading and lower RPMs, maximizing the volume of materials conveyed. Martin's Shaftless Screw eliminates jamming and buildup typical in shafted-screw conveyors for greater uptime, higher efficiency, and lower maintenance. It eliminates hanger bearings and end bearings to reduce maintenance and increase efficiency – enabling direct transfer to another conveyor.

Martin Shaftless Screw Conveyors and components are manufactured and stocked at our branches strategically located near major industrial markets across North America. This ensures rapid shipping on new installations and next-day delivery on stock replacement parts.

Several test units, as well as video footage of actual applications, are available for demonstration of the unique capabilities of the shaftless screw. Discover the benefits Martin conveyors can bring to your business – call us today to arrange an on-site demo using your product.



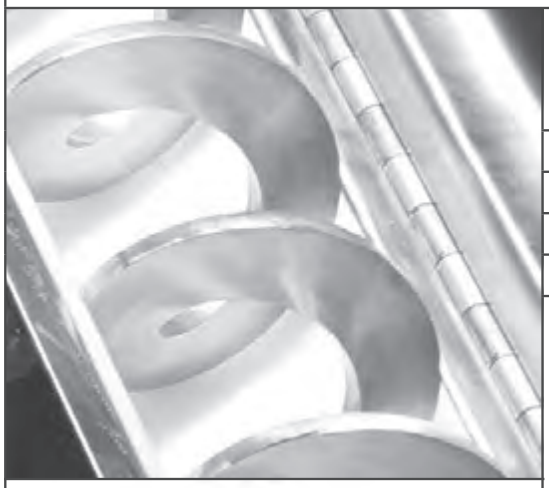
Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

Typical Applications

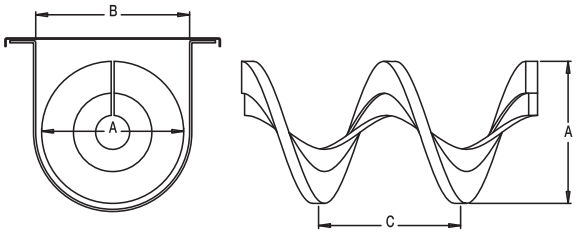
- **Rendering**
  Poultry Processing • Meat Processing • Fish Processing
  • Chicken Feathers • Whole Carcasses • Animal Waste • Fish/Animal Bones
- **Pulp & Paper, Gypsum Board, Particle Board**
  • Lime Mud • Wood Chips • Hogged Bark • Shavings • Pulp
  • Fiber Sludge • Screenings
- **Agriculture**
  • Fertilizer • Corn Gluten • Sugar Beets/Cane Processing • Chopped Hay
  • Grain • Powder • Salt • Flour • Meal • Peat • Pellets
- **Hospital Waste Processing, Recycle Plants**
  • Shredded Cans • Bottles • Paper • Medical Disposables • Heavy Reject
  • Pulper Reject • Screenings
- **Wine & Beverage Industries**
  • Whole Berry • Stems • Pumice • Fruit Peels
- **Waste Water • Solid Waste Treatment**
  • Sludge • Grit • Screenings • Solids Removal
- **Chemical & Heavy Industrial**
  • Ash • Recycle Batteries • Carbon Black • Shredded Tires • Coal
  • Metal Chip Handling • Bentonite • Caustic Soda • Bauxite • Iron Ore
  • Limestone • Insulation

FEATURE	FUNCTION	BENEFIT
No Center Pipe Required	Eliminate buildup on pipe	Able to convey large irregularly shaped and sticky product
Continuous Flight	Hanger bearings not required	Eliminate costly hanger bearing maintenance
Higher Trough Loading	Can handle more product at lower RPMs	Longer wear life
Can use Blind Endplate on Tail End	No tail bearings or seals to maintain	Reduces maintenance and replacement costs
No End Bearings Needed	Direct transfer to another conveyor, incline, vertical or horizontal	Can be designed to fit within space limitations or plant layout
Side Inlet Feeding	No vertical transition necessary	Lower installation cost — Reduces headroom
3/4" - 1" Thick Flighting	Long lasting due to wear resistance	Increases uptime
Cold Formed Flight	High Brinell	Longer life
Wide Variety of Liners	Offer proper liner for specific application	Reduced wear resulting in lower maintenance costs
Simple Design	Fewer operating parts	Lower overall operating costs
Compact Drive System	Doesn't require belts	Easy to maintain
Can be Completely Enclosed	Prevent material leakage — Reduces dust	Eliminates environmental or product contamination
Manufactured in North America	Quality Built — Local Stock	Fast delivery

Size and Capacity

CONFIGURATIONS / OPTIONS		
  Shaftless Screw Live Bottom	**Type of Steel**	• Carbon Steel • High Brinell Carbon Steel • Stainless Steel
	Capacity	Up to 17,000 CFH
	Diameter	6" to 30" (and larger)
	Pitches	Full, 2/3, 1/2
	Trough	CEMA Standards
	Options	• Liners - UHMW - Xylethon - Tivar - AR • Rider Bars • Inspection and Overflow Hatches • Various Drive Configurations Available • Housings: CEMA Standard U-Trough or Split Tubular Housing
	Configurations	• Single or Inner/Outer Flight Design • Twin Screw • Multiple Live Bottom Feeders • Inclined Screw Conveyors • Grit Washers • Vertical

*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.



50% Trough Loading*					
Nom. Dia.	A Dia.	B Inside	C Pitch	CFH @ 1 RPM	Max RPM
6	6	7	6	2.5	25
9	9	10	9	9.1	25
10	10	11	10	12.7	25
12	12	13	12	21.6	25
14	14	15	14	34.7	25
16	16	17	16	51.9	25
18	18	19	18	75.1	25
20	20	21	20	104	25
24	24	25	24	182	25
30	30	31	30	359	25

* Based on horizontal application only.

Martin Sample Work Sheet

Client: _____ Date Quote Due: _____

Conveyor No.: _____ Inquiry No.: _____

Table 1-2

_____ Dia. × Length **L** = _____ Recommended % Trough Loading: _____

Material: _____ Materal HP Factor: F_M = _____

Capacity: _____ Component Series: _____

Density: **W** = _____ Lbs/Ft³ Intermediate Hanger Bearing Series: _____

Lumps: Max. Size _____ in. Class (I) (II) (III) ____ Notes: _____

Required Capacity = **C** = _____ CFH (cubic feet per hour)

$$CFH = \frac{TPH \times 2000}{W}$$

$$CFH = \frac{\text{Pounds per Hour}}{W}$$

CFH = Bushels per Hour × 1.24

Tables 1-3, 1-4, 1-5

Equivalent Capacity = Req'd Capacity _____ × CF_1 _____ × CF_2 _____ × CF_3 _____ = _____ CFH Equivalent Capacity

Table 1-6

Screw Diameter = _____ Select Diameter from 'at max RPM' column where capacity listed equals or exceeds equivalent capacity

Screw RPM = **N** = _____ = $\frac{\text{Equivalent Capacity}}{\text{Capacity 'at one RPM' for diameter selected}}$

Table 1-7

Check lump size and lump class for diameter selected. If larger screw diameter recommended, recalculate RPM per instructions above for selected diameter.

Tables 1-12, 1-13, 1-14, 1-15, 1-16, 1-17

Values to be substituted in formula: _____ _____ _____ _____ _____

Fd **Fb** **Ff** **Fp** **e**

$$HPf = \frac{(L)(N)(Fd)(Fb)}{1{,}000{,}000} = _____$$

$$HPm = \frac{(C)(L)(W)(Ff)(Fm)(Fp)}{1{,}000{,}000} = _____$$

NOTE: Consult factory for feeder horsepower

If HPf + HPm is less than 5.2, select overload factor F_O = _____ (If HPf + HPm is greater than 5.2, F_O = 1.0)

$$\text{Total HP} = \frac{(HPf + HPm)\,F_O}{e} = _____ = _____$$

DRIVE: Use _____ HP motor with AGMA Class (I) (II) (III) Drive at _____ Screw RPM

Tables 1-18, 1-19

$$\text{Torque} = \frac{\text{Motor HP} \times 63{,}025}{\text{Screw RPM}} = _____ \text{ in.-lbs.}$$

List Minimum Size: Shaft Dia. _____ Pipe _____ Bolt/Shear _____ Bolt/Bearing _____

Tables 1-8, 1-9, 1-10, 1-11

Select Components:

Trough _____ Screw _____ Hanger Style _____ Hanger Bearing _____ Cover _____

Vertical Screw Data Sheet

CUSTOMER: _____ DATE QUOTE DUE: _____

ADDRESS: _____

CONTACT: _____ PHONE # _____

VERTICAL SCREW: LIFT _____ DISCH. HEIGHT. _____

_____

_____

INLET CONFIGURATION

(Indicate One): ☐ **Elevator Offset to Left** ☐ **Straight Inlet** ☐ **Elevator Offset to Right**

CAPACITY: _____ (CFH) (LBS/HR) (TPH) (MTPH) (BPH)

MATERIAL: _____ DENSITY _____ LBS/FT^3 TEMP _____°F MOISTURE _____%

LUMPS: MAX SIZE _____ IN LUMP CLASS: (Lump % of Total; I - 10%, II - 25%, III - 95%)

FED BY: _____ DISCHARGES TO: _____

MAT'L OF CONSTR: ☐ MILD STEEL ☐ T304 ☐ T316 ☐ H.D. GALV. ☐ OTHER

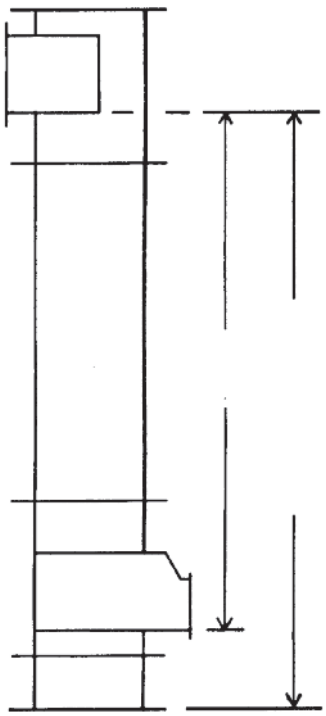
INSTALLATION: ☐ NEW ☐ REPLACEMENT ☐ INDOORS ☐ OUTDOORS

DRIVE: (DIRECT) (SCREW CONVEYOR DRIVE) (OTHER): _____ ☐ V-BELTS ☐ CHAIN ☐ GUARD

MOTOR: ☐ TEFC ☐ X-PROOF ☐ MAC ☐ OTHER _____ NOTES _____

NOTES: _____

_____



TROUGH: _____

SCREW: _____

SHAFT DIA: _____

HANGERS: _____

HRG. BRG.: _____

BOTTOM BRG.: _____

BOTTOM SEAL: _____

GASKETS: _____

DRIVE: _____ HP AT _____ RPM

REDUCER: _____

PAINT: _____

NOTES: _____

_____

_____

PAGE _____ OF _____ PREPARED BY _____ DATE _____

Screw Conveyor Data Sheet

CUSTOMER:_____ DATE PROPOSAL DUE: _____

ADDRESS: _____

CONTACT: _____ PHONE # _____

SCREW DESCR: ____ QTY. _____ ☒ DIA. × _____ LONG (C INLET TO C DISCH.) (OVERALL) ☐ HORIZ. ☐ INCL. _____° ☐ DECL. _____°

CAPACITY: _____ (CFH) (LBS/HR) (TPH) (MTPH) (BPH)

MATERIAL:_____ DENSITY _____ LBS/FT^3 TEMP _____°F MOISTURE _____%

LUMPS: MAX SIZE _____ IN LUMP CLASS: (Lump % of Total; I - 10%, II - 25%, III - 95%)

INSTALLATION: ☐ INDOORS ☐ OUTDOORS ☐ NEW ☐ REPLACEMENT ☐ MAT'L OF CONSTR.: ☐ MILD STEEL ☐ T304 ☐ T316 ☐ HD GALV ☐ OTHER _____

IS IT? ☐ FEEDER ☐ CONVEYOR IS FEED? ☐ FLOOD LOAD ☐ UNIFORM

FED BY: _____ INLET SIZE: _____ DISCHARGES TO:_____

DRIVE: (SCREW CONVEYOR DRIVE) (SHAFT MOUNT) (OTHER): _____

NOTES: _____

_____

TROUGH: STYLE _____ THK. _____

DISCHARGE: TYPE _____ QTY. _____

GATES: TYPE _____ QTY. _____

TROUGH END TYPE: TAIL_____

TROUGH END TYPE: HEAD _____

BEARING TYPE: TAIL _____ HEAD _____

SEAL TYPE: TAIL_____ HEAD _____

SCREW: DIA. _____ (RH) (LH) PITCH _____ THK. _____

_____

_____

_____

COUPL. BOLTS: _____

HANGER: STYLE _____

HANGER BRG.: TYPE _____

COVER: STYLE _____ THK. _____

COVER FASTENERS: TYPE _____

INLETS: STYLE _____ QTY. _____

GASKETS: TYPE _____ THK. _____

DRIVE _____ HP AT _____ RPM

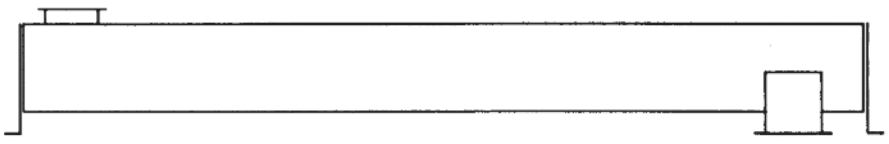
MOTOR: _____ MOTOR MOUNT _____

REDUCER: _____

V-BELT/CHAIN: _____

NOTES: _____

_____



SKETCH — (SHOW FEEDER INLET SIZE AND LOCATION, DRIVE LOCATION, ETC.)

PAGE _____ OF _____ PREPARED BY _____ DATE_____

Bucket Elevator Data Sheet

CUSTOMER:_____ DATE QUOTE DUE:_____

ADDRESS: _____

CONTACT: _____ PHONE # _____

BUCKET ELEVATOR: (CTRS/LIFT) _____ DESCR._____

_____

CAPACITY: _____ (CFH) (LBS/HR) (TPH) (MTPH) (BPH)

MATERIAL:_____ DENSITY _____ LBS/FT^3 TEMP _____°F MOISTURE _____%

LUMPS: MAX SIZE _____ IN LUMP CLASS: (Lump % of Total; I - 10%, II - 25%, III - 95%)

FED BY: _____DISCHARGES TO: _____

MAT'L OF CONSTR: ☐ MILD STEEL ☐ T304 ☐ T316 ☐ H.D. GALV. ☐ OTHER

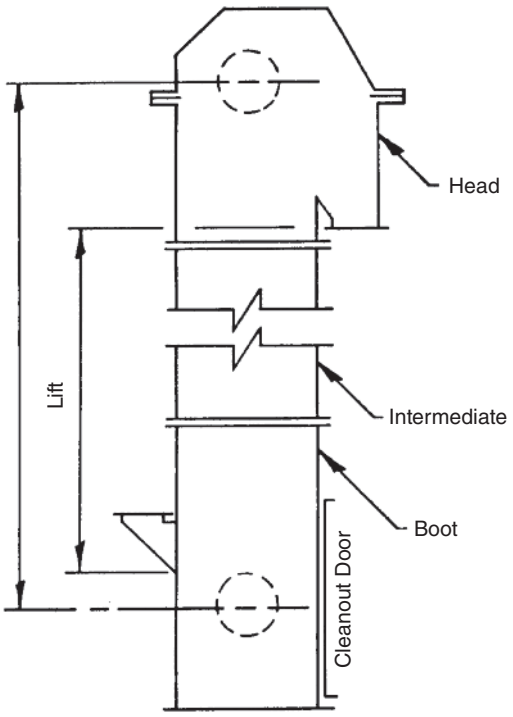
INSTALLATION: ☐ NEW ☐ REPLACEMENT ☐ INDOORS ☐ OUTDOORS

DRIVE: (SHAFT MOUNT) (FOOT MOUNTED GEAR REDUCER) (OTHER): _____ ☐ V-BELTS ☐ CHAIN ☐ GUARD

_____MOTOR: ☐ TEFC ☐ X-PROOF ☐ MAC ☐ OTHER _____BACKSTOP: ☐ SHAFT ☐ INTEGRAL TO REDUCER ☐ OTHER

_____NOTES: _____

_____



TYPE: ☐ CENTRIFUGAL ☐ CONTINUOUS ☐ GRAIN TYPE ☐ OTHER _____

☐ CHAIN ☐ BELT SPECS._____

DRIVE: _____ HP AT _____ RPM REDUCER _____

SPKTS/SHEAVES _____ CHAIN/V-BELTS _____

_____ BACKSTOP _____

INLET: ☐ STANDARD ☐ SPECIAL _____

DISCHARGE: ☐ STANDARD ☐ 45°

SAFETY CAGE: ☐ YES ☐ NO LADDER: LGTH _____

HEAD PLATFORM: ☐ STANDARD SIZE ☐ SPECIAL _____

INT. PLATFORM ☐ STANDARD SIZE ☐ SPECIAL _____

THICKNESS: HEAD _____ BOOT _____ INT. _____

TAKEUP: ☐ HEAD ☐ BOOT ☐ SCREW ☐ GRAVITY

SEALS: ☐ STANDARD ☐ SPECIAL _____ VENTS: SIZE _____ QTY _____

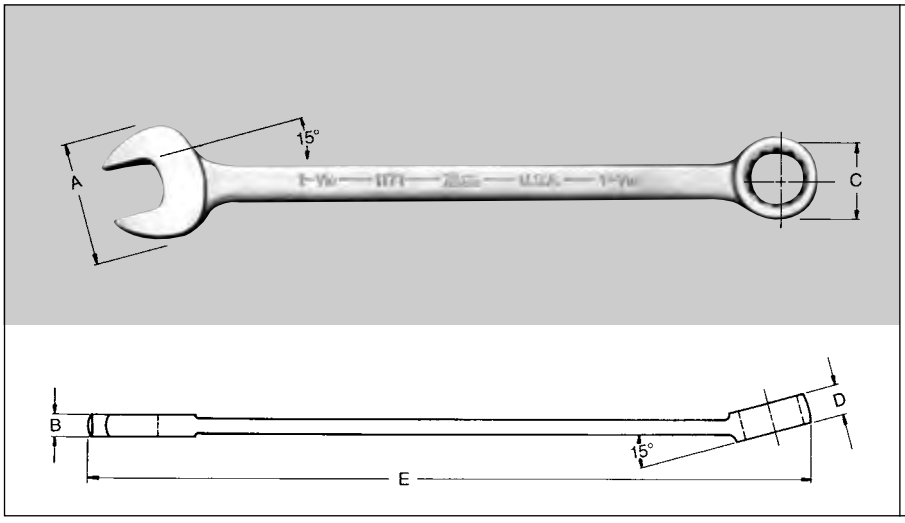
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Combination Wrenches



American Alloy Steel

Drop Forged
Long Pattern
15° Angle
12 Point Box

Versatile, General Purpose Wrench in a Complete Range of Openings, ¼" through 2½". Chrome and Industrial Black Finish.

Wrench Opening	Open End		Box End		Overall Length	Weight Ea.-Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	Diameter	Thickness	Diameter	Thickness			Part No.	Part No.		
	A	B	C	D	E					
¼	19/32	11/64	7/16	7/32	5	.04	1158	BLK1158	6	¼
5/16	5/16	11/16	33/64	¼	5½	.05	1159	BLK1159	6	5/16
11/32	11/16	3/16	33/64	¼	5½	.05	1159A	BLK1159A	6	11/32
3/8	13/16	3/16	17/32	9/32	6	.08	1160	BLK1160	6	3/8
7/16	15/16	7/32	11/16	5/16	6½	.13	1161	BLK1161	6	7/16
½	1 1/16	¼	25/32	11/32	7⅛	.17	1162	BLK1162	6	½
9/16	1 3/16	9/32	27/32	3/8	7¾	.25	1163	BLK1163	6	9/16
5/8	1 5/16	9/32	15/16	13/32	8½	.30	1164	BLK1164	6	5/8
11/16	1 7/16	5/16	1 1/32	7/16	9¼	.38	1165	BLK1165	6	11/16
¾	1 9/16	11/32	1⅛	15/32	10⅛	.43	1166	BLK1166	6	¾
13/16	1 11/16	23/64	1 13/64	½	11	.55	1167A	BLK1167A	6	13/16
⅞	1 13/16	3/8	1 9/32	17/32	12	.64	1167	BLK1167	6	⅞
15/16	1 15/16	13/32	1⅜	9/16	13	.77	1168	BLK1168	6	15/16
1	2 1/16	13/32	1 15/32	19/32	14	.92	1170	BLK1170	6	1
1 1/16	2 3/16	7/16	1 9/16	5/8	15	1.07	1171	BLK1171	6	1 1/16
1⅛	2 5/16	15/32	1 41/64	21/32	16⅛	1.37	1172	BLK1172	6	1⅛
1 3/16	2 9/16	½	1 13/16	23/32	17 3/16	1.37	1172A	BLK1172A	6	1 3/16
1¼	2 9/16	½	1 13/16	23/32	17 3/16	1.8	1173	BLK1173	1	1¼
1 5/16	2 11/16	17/32	1⅞	¾	18	2.1	1174	BLK1174	1	1 5/16
1⅜	2 13/16	9/16	1 31/32	25/32	18¾	2.1	1175	BLK1175	1	1⅜
1 7/16	2 15/16	19/32	2 1/16	13/16	19½	3.6	1176	BLK1176	1	1 7/16
1½	3 1/16	⅝	2 5/32	27/32	20½	3.4	1177	BLK1177	1	1½
1 9/16	3 5/16	21/32	2 11/32	⅞	21½	3.4	1178A	BLK1178A	1	1 9/16
1⅝	3 5/16	21/32	2 11/32	⅞	21½	4.5	1180	BLK1180	1	1⅝
1 11/16	3 7/16	11/16	2 7/16	29/32	22½	4.5	1182	BLK1182	1	1 11/16
1¾	3 11/16	23/32	2⅝	31/32	24	7.1	1184	BLK1184	1	1¾
1 13/16	3 11/16	23/32	2⅝	31/32	24	7.0	1186	BLK1186	1	1 13/16
1⅞	4 1/16	25/32	2⅞	1 1/16	25¾	6.9	1188	BLK1188	1	1⅞
1 15/16	4 1/16	25/32	2⅞	1 1/16	25¾	6.8	1189	BLK1189	1	1 15/16
2	4 1/16	25/32	2⅞	1 1/16	25¾	6.8	1190	BLK1190	1	2
2 1/16	4 9/32	13/16	3 1/16	1 9/64	27½	8.3	1191	BLK1191	1	2 1/16
2⅛	4 9/32	13/16	3 1/16	1⅛	27½	8.2	1192	BLK1192	1	2⅛
2 3/16	4 17/32	⅞	3 3/32	1 3/16	29¼	7.9	1193	BLK1193	1	2 3/16
2¼	4 17/32	⅞	3 3/32	1 3/16	29¼	7.7	1194	BLK1194	1	2¼
2⅜	5	31/32	3 17/32	1 5/16	31	12.1	1195	BLK1195	1	2⅜
2½	5	31/32	3 17/32	1 5/16	31	11.7	1196	BLK1196	1	2½

Combination Wrench Sets

Convenient Sets Provide Popular Wrench Sizes Ranging from ⅜" through 2" Openings. Sets are Available in 4 Sizes: 5, 7, 11 and 14 Wrenches, Packaged in a Handcrafted Fabric and Vinyl Roll Up Kit.

Chrome Sets

C7K



OPENING	PART NO.
⅜	1160
7⁄16	1161
½	1162
9⁄16	1163
⅝	1164
11⁄16	1165
¾	1166
KIT BAG	C187

C11K



OPENING	PART NO.
⅜	1160
7⁄16	1161
½	1162
9⁄16	1163
⅝	1164
11⁄16	1165
¾	1166
13⁄16	1167A
⅞	1167
15⁄16	1168
1	1170
KIT BAG	C110

C14K



OPENING	PART NO.
⅜	1160
7⁄16	1161
½	1162
9⁄16	1163
⅝	1164
11⁄16	1165
¾	1166
13⁄16	1167A
⅞	1167
15⁄16	1168
1	1170
1 1⁄16	1171
1⅛	1172
1¼	1173
KIT BAG	C140

HC5K



OPENING	PART NO.
1¼	1173
1 7⁄16	1176
1⅝	1180
1 13⁄16	1186
2	1190
KIT BAG	C55

Industrial Black Sets

CB7K



OPENING	PART NO.
⅜	BLK1160
7⁄16	BLK1161
½	BLK1162
9⁄16	BLK1163
⅝	BLK1164
11⁄16	BLK1165
¾	BLK1166
KIT BAG	C187

CB11K



OPENING	PART NO.
⅜	BLK1160
7⁄16	BLK1161
½	BLK1162
9⁄16	BLK1163
⅝	BLK1164
11⁄16	BLK1165
¾	BLK1166
13⁄16	BLK1167A
⅞	BLK1167
15⁄16	BLK1168
1	BLK1170
KIT BAG	C110

CB14K



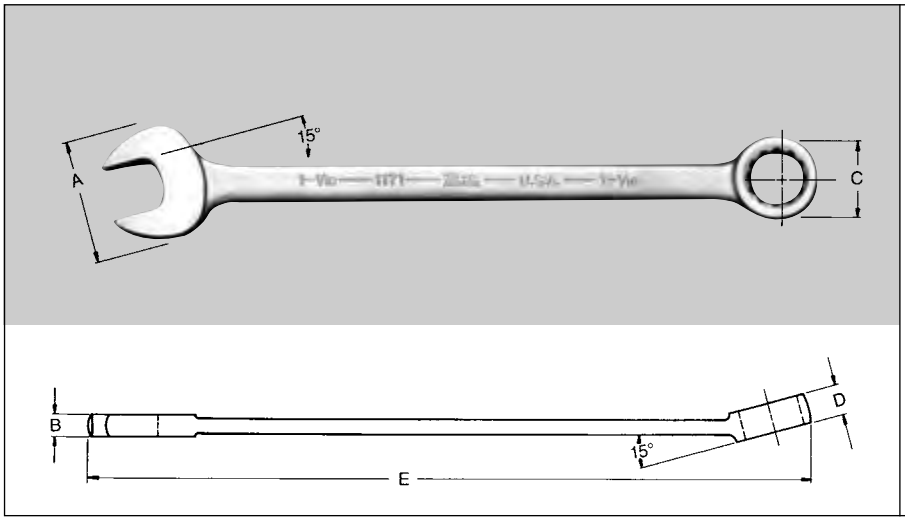
OPENING	PART NO.
⅜	BLK1160
7⁄16	BLK1161
½	BLK1162
9⁄16	BLK1163
⅝	BLK1164
11⁄16	BLK1165
¾	BLK1166
13⁄16	BLK1167A
⅞	BLK1167
15⁄16	BLK1168
1	BLK1170
1 1⁄16	BLK1171
1⅛	BLK1172
1¼	BLK1173
KIT BAG	C140

HCB5K



OPENING	PART NO.
1¼	BLK1173
1 7⁄16	BLK1176
1⅝	BLK1180
1 13⁄16	BLK1186
2	BLK1190
KIT BAG	C55

Combination Wrenches – Metric



American Alloy Steel

Drop Forged
Long Pattern
15° Angle
12 Point Box

Versatile, General Purpose Wrench in a Complete Range of Openings, 6 mm through 60 mm. Chrome and Industrial Black Finish.

Wrench Opening	Open End		Box End		Overall Length	Weight Ea.-Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	Diameter	Thickness	Diameter	Thickness			Part No.	Part No.		
	A	B	C	D	E					
6 mm	15.0 mm	4.1 mm	11.2 mm	5.6 mm	127.0 mm	.04	1106MM	BLK1106MM	6	6 mm
7 mm	15.0 mm	4.1 mm	11.2 mm	5.6 mm	127.0 mm	.05	1107MM	BLK1107MM	6	7 mm
8 mm	17.5 mm	4.8 mm	13.2 mm	6.4 mm	139.7 mm	.05	1108MM	BLK1108MM	6	8 mm
9 mm	20.8 mm	5.6 mm	15.7 mm	7.4 mm	152.4 mm	.08	1109MM	BLK1109MM	6	9 mm
10 mm	24.1 mm	6.4 mm	17.8 mm	8.1 mm	165.1 mm	.13	1110MM	BLK1110MM	6	10 mm
11 mm	24.1 mm	6.4 mm	17.8 mm	8.1 mm	165.1 mm	.13	1111MM	BLK1111MM	6	11 mm
12 mm	26.9 mm	6.9 mm	20.3 mm	9.1 mm	180.8 mm	.17	1112MM	BLK1112MM	6	12 mm
13 mm	26.9 mm	6.9 mm	20.3 mm	9.1 mm	180.8 mm	.17	1113MM	BLK1113MM	6	13 mm
14 mm	30.2 mm	7.6 mm	22.1 mm	9.7 mm	196.9 mm	.25	1114MM	BLK1114MM	6	14 mm
15 mm	33.3 mm	8.1 mm	24.1 mm	10.9 mm	215.9 mm	.30	1115MM	BLK1115MM	6	15 mm
16 mm	33.3 mm	8.1 mm	24.1 mm	10.9 mm	215.9 mm	.30	1116MM	BLK1116MM	6	16 mm
17 mm	38.9 mm	8.9 mm	26.4 mm	11.7 mm	235.0 mm	.38	1117MM	BLK1117MM	6	17 mm
18 mm	38.9 mm	8.9 mm	26.4 mm	11.7 mm	235.0 mm	.38	1118MM	BLK1118MM	6	18 mm
19 mm	39.6 mm	9.4 mm	28.7 mm	12.7 mm	257.0 mm	.43	1119MM	BLK1119MM	6	19 mm
20 mm	42.9 mm	10.2 mm	31.0 mm	13.5 mm	279.4 mm	.55	1120MM	BLK1120MM	6	20 mm
21 mm	42.9 mm	10.2 mm	31.0 mm	13.5 mm	279.4 mm	.55	1121MM	BLK1121MM	6	21 mm
22 mm	46.0 mm	10.7 mm	33.0 mm	14.2 mm	304.8 mm	.64	1122MM	BLK1122MM	6	22 mm
23 mm	49.3 mm	11.4 mm	35.1 mm	15.0 mm	330.2 mm	.77	1123MM	BLK1123MM	6	23 mm
24 mm	49.3 mm	11.4 mm	35.1 mm	15.0 mm	330.2 mm	.77	1124MM	BLK1124MM	6	24 mm
25 mm	52.3 mm	10.4 mm	37.3 mm	15.0 mm	355.6 mm	.92	1125MM	BLK1125MM	6	25 mm
26 mm	55.6 mm	11.2 mm	39.6 mm	15.7 mm	381.0 mm	1.07	1126MM	BLK1126MM	6	26 mm
27 mm	55.6 mm	11.2 mm	39.6 mm	15.7 mm	381.0 mm	1.07	1127MM	BLK1127MM	1	27 mm
28 mm	58.9 mm	13.5 mm	41.7 mm	17.5 mm	409.4 mm	1.40	1128MM	BLK1128MM	1	28 mm
29 mm	58.9 mm	13.5 mm	41.7 mm	17.5 mm	409.4 mm	1.34	1129MM	BLK1129MM	1	29 mm
30 mm	65.5 mm	14.7 mm	46.0 mm	19.1 mm	436.6 mm	1.80	1130MM	BLK1130MM	1	30 mm
32 mm	68.3 mm	13.5 mm	47.8 mm	19.1 mm	457.2 mm	1.80	1132MM	BLK1132MM	1	32 mm
34 mm	71.4 mm	14.2 mm	50.0 mm	19.8 mm	476.3 mm	2.10	1134MM	BLK1134MM	1	34 mm
36 mm	74.7 mm	15.0 mm	52.3 mm	20.6 mm	495.3 mm	3.60	1136MM	BLK1136MM	1	36 mm
41 mm	84.1 mm	16.8 mm	59.4 mm	22.4 mm	546.1 mm	4.50	1141MM	BLK1141MM	1	41 mm
46 mm	93.7 mm	18.3 mm	66.5 mm	24.6 mm	609.6 mm	7.00	1146MM	BLK1146MM	1	46 mm
50 mm	103.1 mm	19.8 mm	73.2 mm	26.9 mm	654.1 mm	6.80	1150MM	BLK1150MM	1	50 mm
55 mm	115.1mm	22.4 mm	81.8 mm	30.2 mm	743.0 mm	7.90	1155MM	BLK1155MM	1	55 mm
60 mm	127.0 mm	24.6 mm	89.7 mm	33.3 mm	787.4 mm	12.10	1160MM	BLK1160MM	1	60 mm

Combination Wrench Sets – Metric

Convenient Sets Provide Popular Wrench Sizes Ranging from 7 mm through 32 mm Openings. Sets are Available in 5 Sizes: 7, 9, 11, 15 and 18 Wrenches, Packaged in a Handcrafted Fabric and Vinyl Roll Up Kit.

Chrome Sets

C7KM



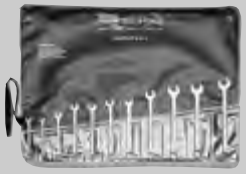
11 mm	1111MM
12 mm	1112MM
13 mm	1113MM
14 mm	1114MM
16 mm	1116MM
17 mm	1117MM
19 mm	1119MM
Kit Bag	C187

C9KM



7 mm	1107MM
8 mm	1108MM
9 mm	1109MM
10 mm	1110MM
11 mm	1111MM
12 mm	1112MM
13 mm	1113MM
14 mm	1114MM
15 mm	1115MM
Kit Bag	C90

C11KM



7 mm	1107MM
8 mm	1108MM
9 mm	1109MM
10 mm	1110MM
11 mm	1111MM
12 mm	1112MM
13 mm	1113MM
14 mm	1114MM
15 mm	1115MM
16 mm	1116MM
17 mm	1117MM
Kit Bag	C111

C15KM



7 mm	1107MM
8 mm	1108MM
10 mm	1110MM
12 mm	1112MM
14 mm	1114MM
16 mm	1116MM
18 mm	1118MM
20 mm	1120MM
22 mm	1122MM
24 mm	1124MM
26 mm	1126MM
28 mm	1128MM
29 mm	1129MM
30 mm	1130MM
32 mm	1132MM
Kit Bag	C150

C18KM



7 mm	1107MM
8 mm	1108MM
9 mm	1109MM
10 mm	1110MM
11 mm	1111MM
12 mm	1112MM
13 mm	1113MM
14 mm	1114MM
15 mm	1115MM
16 mm	1116MM
17 mm	1117MM
18 mm	1118MM
19 mm	1119MM
20 mm	1120MM
21 mm	1121MM
22 mm	1122MM
23 mm	1123MM
24 mm	1124MM
Kit Bag	C180

Industrial Black Sets

CB7KM



11 mm	BLK1111MM
12 mm	BLK1112MM
13 mm	BLK1113MM
14 mm	BLK1114MM
16 mm	BLK1116MM
17 mm	BLK1117MM
19 mm	BLK1119MM
Kit Bag	C187

CB9KM



7 mm	BLK1107MM
8 mm	BLK1108MM
9 mm	BLK1109MM
10 mm	BLK1110MM
11 mm	BLK1111MM
12 mm	BLK1112MM
13 mm	BLK1113MM
14 mm	BLK1114MM
15 mm	BLK1115MM
Kit Bag	C90

CB11KM



7 mm	BLK1107MM
8 mm	BLK1108MM
9 mm	BLK1109MM
10 mm	BLK1110MM
11 mm	BLK1111MM
12 mm	BLK1112MM
13 mm	BLK1113MM
14 mm	BLK1114MM
15 mm	BLK1115MM
16 mm	BLK1116MM
17 mm	BLK1117MM
Kit Bag	C111

CB15KM



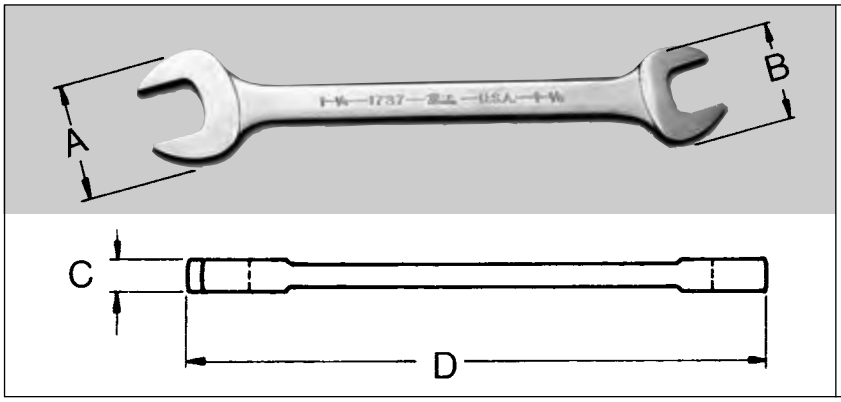
7 mm	BLK1107MM
8 mm	BLK1108MM
10 mm	BLK1110MM
12 mm	BLK1112MM
14 mm	BLK1114MM
16 mm	BLK1116MM
18 mm	BLK1118MM
20 mm	BLK1120MM
22 mm	BLK1122MM
24 mm	BLK1124MM
26 mm	BLK1126MM
28 mm	BLK1128MM
29 mm	BLK1129MM
30 mm	BLK1130MM
32 mm	BLK1132MM
Kit Bag	C150

CB18KM



7 mm	BLK1107MM
8 mm	BLK1108MM
9 mm	BLK1109MM
10 mm	BLK1110MM
11 mm	BLK1111MM
12 mm	BLK1112MM
13 mm	BLK1113MM
14 mm	BLK1114MM
15 mm	BLK1115MM
16 mm	BLK1116MM
17 mm	BLK1117MM
18 mm	BLK1118MM
19 mm	BLK1119MM
20 mm	BLK1120MM
21 mm	BLK1121MM
22 mm	BLK1122MM
23 mm	BLK1123MM
24 mm	BLK1124MM
Kit Bag	C180

Double Head Open End Wrenches



American Alloy Steel Drop Forged

15° Angle

Comfortable Grip

Chrome and Industrial Black

Wrench Opening	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A × B	C	D		Part No.		Part No.		
1/4 × 5/16	19/32 × 3/4	3/16	4	.03	1020	6	BLK-1020	6	1/4 × 5/16
5/16 × 11/32	19/32 × 3/4	3/16	4	.04	1720	6	BLK1720	6	5/16 × 11/32
5/16 × 3/8	19/32 × 3/4	3/16	4	.04	1721	6	BLK1721	6	5/16 × 3/8
5/16 × 13/32	19/32 × 3/4	3/16	4	.04	1021	6	BLK1021	6	5/16 × 13/32
3/8 × 7/16	3/4 × 29/32	13/64	4 7/8	.06	1723	6	BLK1723	6	3/8 × 7/16
3/8 × 1/2	3/4 × 29/32	13/64	4 7/8	.06	1723A	6	BLK1723A	6	3/8 × 1/2
7/16 × 1/2	29/32 × 1 1/8	1/4	5 3/4	.13	1725	6	BLK1725	6	7/16 × 1/2
7/16 × 9/16	29/32 × 1 1/8	1/4	5 3/4	.13	1725A	6	BLK1725A	6	7/16 × 9/16
1/2 × 9/16	1 1/16 × 1 1/8	1/4	6 1/8	.19	1725B	6	BLK1725B	6	1/2 × 9/16
1/2 × 5/8	1 1/4 × 1 3/8	1/4	6 1/8	.19	1726	6	BLK1726	6	1/2 × 5/8
9/16 × 5/8	1 1/8 × 1 1/4	17/64	6 3/4	.20	1727	6	BLK1727	6	9/16 × 5/8
9/16 × 11/16	1 3/16 × 1 7/16	19/64	7 1/2	.27	1027C	6	BLK1027C	6	9/16 × 11/16
19/32 × 11/16	1 3/16 × 1 7/16	19/64	7 1/2	.27	1027	6	BLK1027	6	19/32 × 11/16
5/8 × 11/16	1 3/16 × 1 7/16	19/64	7 1/2	.27	1027B	6	BLK1027B	6	5/8 × 11/16
9/16 × 3/4	1 5/16 × 1 7/16	19/64	7 1/2	.27	1728	6	BLK1728	6	9/16 × 3/4
5/8 × 3/4	1 5/16 × 1 5/8	5/16	8 1/2	.41	1729	6	BLK1729	6	5/8 × 3/4
11/16 × 3/4	1 5/16 × 1 5/8	5/16	8 1/2	.41	1029B	6	BLK1029B	6	11/16 × 3/4
11/16 × 25/32	1 5/16 × 1 5/8	5/16	8 1/2	.41	1029	6	BLK1029	6	11/16 × 25/32
11/16 × 13/16	1 5/16 × 1 5/8	5/16	8 1/2	.40	1029C	6	BLK1029C	6	11/16 × 13/16
11/16 × 7/8	1 5/16 × 1 5/8	5/16	8 1/2	.40	1030	6	BLK-1030	6	11/16 × 7/8
3/4 × 13/16	1 5/8 × 1 3/4	11/32	9 5/8	.50	1731	6	BLK1731	6	3/4 × 13/16
3/4 × 7/8	1 5/8 × 1 3/4	11/32	9 5/8	.50	1731A	6	BLK1731A	6	3/4 × 7/8
13/16 × 7/8	1 5/8 × 1 3/4	11/32	9 5/8	.50	1731B	6	BLK1731B	6	13/16 × 7/8
7/8 × 15/16	1 11/16 × 1 15/16	3/8	10 5/8	.75	1033A	6	BLK1033A	6	7/8 × 15/16
7/8 × 1	1 11/16 × 1 15/16	3/8	10 5/8	.72	1733	6	BLK1733	6	7/8 × 1
15/16 × 1	1 7/8 × 2 1/8	7/16	11 1/2	1.05	1033C	6	BLK1033C	6	15/16 × 1
7/8 × 1 1/16	1 7/8 × 2 1/8	7/16	11 1/2	1.03	1034	6	BLK1034	6	7/8 × 1 1/16
15/16 × 1 1/16	1 7/8 × 2 1/8	7/16	11 1/2	1.01	1034A	6	BLK1034A	6	15/16 × 1 1/16
1 × 1 1/8	2 1/8 × 2 1/4	7/16	12 1/2	1.18	1735	6	BLK1735	6	1 × 1 1/8
1 1/16 × 1 1/8	2 1/8 × 2 1/4	7/16	12 1/2	1.16	1036B	6	BLK1036B	6	1 1/16 × 1 1/8
1 1/16 × 1 1/4	2 1/4 × 2 5/8	1/2	13 3/4	1.6	1037	6	BLK1037	6	1 1/16 × 1 1/4
1 1/8 × 1 1/4	2 1/4 × 2 5/8	1/2	13 3/4	1.6	1737	6	BLK1737	6	1 1/8 × 1 1/4
1 1/8 × 1 5/16	2 1/4 × 2 5/8	1/2	13 3/4	1.6	1037A	6	BLK1037A	6	1 1/8 × 1 5/16
1 1/4 × 1 5/16	2 3/4 × 2 7/8	9/16	15 1/2	2.1	1039B	6	BLK1039B	1	1 1/4 × 1 5/16
1 1/4 × 1 7/16	2 3/4 × 2 7/8	9/16	15 1/2	2.1	1039	6	BLK1039	1	1 1/4 × 1 7/16
1 5/16 × 1 1/2	2 3/4 × 2 7/8	9/16	15 1/2	2.1	1039A	6	BLK1039A	1	1 5/16 × 1 1/2
1 3/8 × 1 7/16	2 3/4 × 2 7/8	9/16	15 1/2	2.0	1039C	6	BLK1039C	1	1 3/8 × 1 7/16
1 1/4 × 1 5/8	2 3/4 × 2 7/8	9/16	15 1/2	2.0	1040	6	BLK1040	1	1 1/4 × 1 5/8
1 7/16 × 1 5/8	2 3/4 × 3 1/4	5/8	17	3.1	1041	1	BLK1041	1	1 7/16 × 1 5/8
1 1/2 × 1 5/8	2 3/4 × 3 1/4	5/8	17	3.1	1041B	1	BLK1041B	1	1 1/2 × 1 5/8
1 11/16 × 1 7/8	3 3/4 × 4 1/8	7/8	19 1/2	7.2	—	—	BLK44A	1	1 11/16 × 1 7/8
1 13/16 × 2	3 3/4 × 4 1/8	7/8	19 1/2	6.9	—	—	BLK45	1	1 13/16 × 2
2 3/16 × 2 3/8	4 13/16 × 4 7/8	1 1/8	23	11.8	—	—	BLK49	1	2 3/16 × 2 3/8
2 1/4 × 2 7/16	4 13/16 × 4 7/8	1 1/8	23	11.7	—	—	BLK49A	1	2 1/4 × 2 7/16

Double Head Open End Wrench Sets

6 Sets of Popular Sizes Provide a Wide Range of Openings in Chrome or Industrial Black Finish.

Chrome Sets

OE6K



OPENING	PART NO.
3/8 × 7/16	1723
1/2 × 9/16	1725B
5/8 × 11/16	1027B
3/4 × 13/16	1731
7/8 × 15/16	1033A
1 × 1 1/8	1735
Kit Bag	C60B

OE8K



OPENING	PART NO.
1/4 × 5/16	1020
3/8 × 7/16	1723
1/2 × 9/16	1725B
5/8 × 11/16	1027B
3/4 × 13/16	1731
7/8 × 15/16	1033A
1 × 1 1/8	1735
1 1/16 × 1 1/4	1037
Kit Bag	C81

OE11K



OPENING	PART NO.
1/4 × 5/16	1020
5/16 × 3/8	1721
3/8 × 7/16	1723
7/16 × 1/2	1725
1/2 × 9/16	1725B
9/16 × 5/8	1727
5/8 × 11/16	1027B
3/4 × 13/16	1731
7/8 × 15/16	1033A
1 × 1 1/8	1735
1 1/16 × 1 1/4	1037
Kit Bag	C110

Industrial Black Sets

BOE6K



OPENING	PART NO.
3/8 × 7/16	BLK1723
1/2 × 9/16	BLK1725B
5/8 × 11/16	BLK1027B
3/4 × 13/16	BLK1731
7/8 × 15/16	BLK1033A
1 × 1 1/8	BLK1735
Kit Bag	C60B

BOE8K



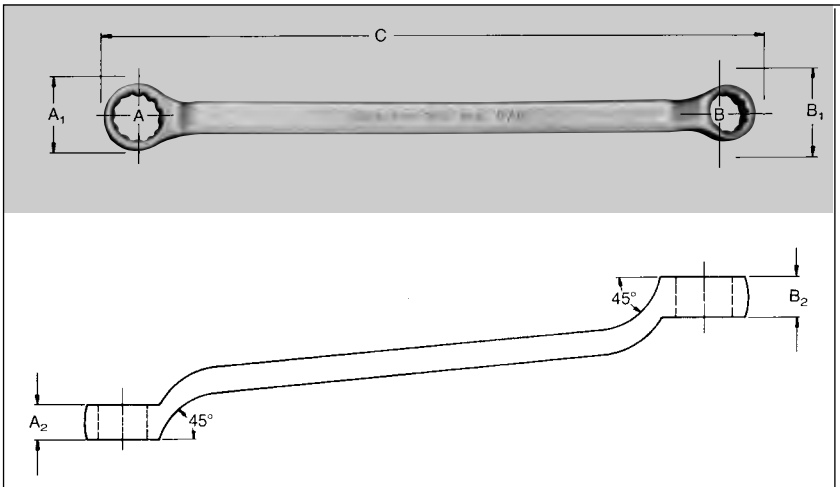
OPENING	PART NO.
1/4 × 5/16	BLK-1020
3/8 × 7/16	BLK1723
1/2 × 9/16	BLK1725B
5/8 × 11/16	BLK1027B
3/4 × 13/16	BLK1731
7/8 × 15/16	BLK1033A
1 × 1 1/8	BLK1735
1 1/16 × 1 1/4	BLK1037
Kit Bag	C81

BOE11K



OPENING	PART NO.
1/4 × 5/16	BLK-1020
5/16 × 3/8	BLK1721
3/8 × 7/16	BLK1723
7/16 × 1/2	BLK1725
1/2 × 9/16	BLK1725B
9/16 × 5/8	BLK1727
5/8 × 11/16	BLK1027B
3/4 × 13/16	BLK1731
7/8 × 15/16	BLK1033A
1 × 1 1/8	BLK1735
1 1/16 × 1 1/4	BLK1037
Kit Bag	C110

Double Offset Box Wrenches



American Alloy Steel

Drop Forged

12 Point Box

Double Offset 45° for Obstruction Clearance

Different Opening in Each End.

Short Pattern

Wrench Opening	Diameter of Head		Thickness of Head		Length	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Opening
A × B	A_1	B_1	A_2	B_2	C		Part No.	Part No.		A × B
5/16 × 3/8	15/32	35/64	7/32	1/4	4 1/4	.06	9721	BLK9721	6	5/16 × 3/8
3/8 × 7/16	17/32	5/8	17/64	5/16	4 5/8	.08	9723	BLK9723	6	3/8 × 7/16
7/16 × 1/2	5/8	23/32	5/16	11/32	5 1/16	.10	9725	BLK9725	6	7/16 × 1/2
1/2 × 9/16	23/32	13/16	11/32	3/8	5 1/2	.13	9725B	BLK9725B	6	1/2 × 9/16
9/16 × 5/8	13/16	7/8	3/8	7/16	5 15/16	.19	9727	BLK9727	6	9/16 × 5/8
5/8 × 11/16	7/8	1 1/32	7/16	15/32	6 1/2	.26	9727A	BLK9727A	6	5/8 × 11/16
5/8 × 3/4	7/8	1 1/32	7/16	15/32	6 1/2	.25	9729	BLK9729	6	5/8 × 3/4

Long Pattern

Wrench Opening	Diameter of Head		Thickness of Head		Length	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Opening
A × B	A_1	B_1	A_2	B_2	C		Part No.	Part No.		A × B
3/8 × 7/16	17/32	19/32	9/32	9/32	6 15/32	.15	8723	BLK8723	6	3/8 × 7/16
7/16 × 1/2	5/8	11/16	5/16	5/16	7 3/4	.16	8725	BLK8725	6	7/16 × 1/2
1/2 × 9/16	11/16	13/16	3/8	3/8	8 5/8	.25	8725B	BLK8725B	6	1/2 × 9/16
9/16 × 5/8	25/32	7/8	3/8	3/8	9 1/2	.34	8727	BLK8727	6	9/16 × 5/8
5/8 × 11/16	7/8	31/32	13/32	13/32	10 5/16	.37	8727A	BLK8727A	6	5/8 × 11/16
5/8 × 3/4	7/8	1 1/32	29/64	29/64	11 3/16	.43	8729	BLK8729	6	5/8 × 3/4
11/16 × 3/4	1 1/32	1 5/32	15/32	15/32	11 7/8	.56	8029B	BLK8029B	6	11/16 × 3/4
3/4 × 7/8	1 1/32	1 3/16	1/2	1/2	12 9/16	.68	8731A	BLK8731A	6	3/4 × 7/8
13/16 × 7/8	1 5/32	1 7/32	17/32	17/32	13 5/16	.74	8731B	BLK8731B	6	13/16 × 7/8
7/8 × 15/16	1 5/16	1 13/32	9/16	9/16	14 1/16	1.0	8033A	BLK8033A	6	7/8 × 15/16
15/16 × 1	1 5/16	1 13/32	9/16	9/16	14 1/16	1.0	8033C	BLK8033C	6	15/16 × 1
1 × 1 1/8	1 13/32	1 17/32	21/32	21/32	15 3/16	1.4	8735	BLK8735	6	1 × 1 1/8
1 1/16 × 1 1/8	1 13/32	1 17/32	21/32	21/32	15 3/16	1.4	8735A	BLK8735A	6	1 1/16 × 1 1/8
1 1/16 × 1 1/4	1 9/16	1 13/16	11/16	11/16	17 3/16	1.8	8037	BLK8037	1	1 1/16 × 1 1/4
1 1/8 × 1 5/16	1 9/16	1 13/16	11/16	11/16	17 3/16	1.8	8037A	BLK8037A	1	1 1/8 × 1 5/16
1 1/4 × 1 5/16	1 7/8	2 1/16	3/4	3/4	18 3/8	2.4	8039B	BLK8039B	1	1 1/4 × 1 5/16
1 1/4 × 1 7/16	1 7/8	2 1/16	3/4	3/4	18 3/8	2.4	8039	BLK8039	1	1 1/4 × 1 7/16
1 5/16 × 1 1/2	2	2 1/16	25/32	13/16	20 1/16	2.8	8040A	BLK8040A	1	1 5/16 × 1 1/2
1 3/8 × 1 7/16	2	2 1/16	25/32	13/16	20 1/16	2.8	8040C	BLK8040C	1	1 3/8 × 1 7/16
1 3/8 × 1 1/2	2	2 1/16	25/32	13/16	20 1/16	2.8	8040	BLK8040	1	1 3/8 × 1 1/2
1 7/16 × 1 1/2	2	2 1/16	25/32	13/16	20 1/16	2.8	8040B	BLK8040B	1	1 7/16 × 1 1/2

Double Offset Box Wrench Sets

Chrome Sets

BO6K



3/8 × 7/16	8723
7/16 × 1/2	8725
1/2 × 9/16	8725B
9/16 × 5/8	8727
11/16 × 3/4	8029B
13/16 × 7/8	8731B
Kit Bag	C60B

BO11K



3/8 × 7/16	8723
7/16 × 1/2	8725
1/2 × 9/16	8725B
9/16 × 5/8	8727
5/8 × 11/16	8727A
11/16 × 3/4	8029B
13/16 × 7/8	8731B
15/16 × 1	8033C
1 1/16 × 1 1/8	8735A
1 1/16 × 1 1/4	8037
1 1/4 × 1 5/16	8039B
Kit Bag	C110

Industrial Black Sets

BBO6K



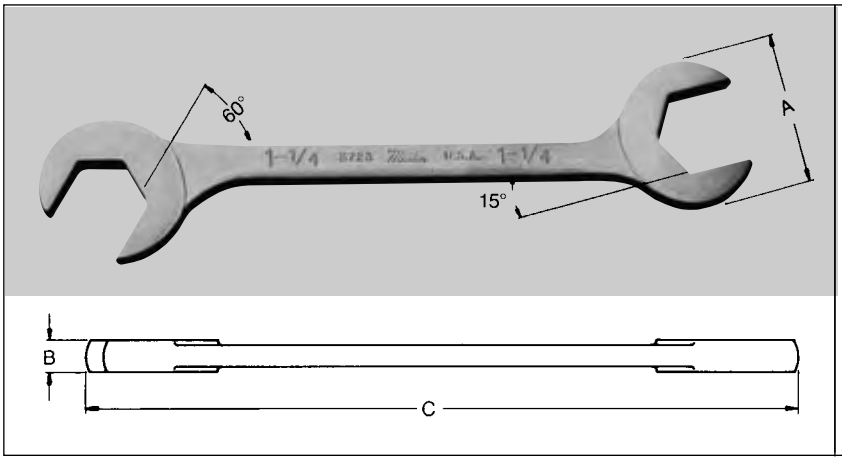
3/8 × 7/16	BLK8723
7/16 × 1/2	BLK8725
1/2 × 9/16	BLK8725B
9/16 × 5/8	BLK8727
11/16 × 3/4	BLK8029B
13/16 × 7/8	BLK8731B
Kit Bag	C60B

BBO11K



3/8 × 7/16	BLK8723
7/16 × 1/2	BLK8725
1/2 × 9/16	BLK8725B
9/16 × 5/8	BLK8727
5/8 × 11/16	BLK8727A
11/16 × 3/4	BLK8029B
13/16 × 7/8	BLK8731B
15/16 × 1	BLK8033C
1 1/16 × 1 1/8	BLK8735A
1 1/16 × 1 1/4	BLK8037
1 1/4 × 1 5/16	BLK8039B
Kit Bag	C110

Hydraulic Wrenches
Angle Openings SAE & Metric



American Alloy Steel
Drop Forged

Permits Work in Extremely Tight Clearance

Thin Head

Same Opening Each End

Wrench Openings	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Openings
	A	B	C		Part No.	Part No.		
11/32 X 11/32	0.8	0.2	4.8	.07	3710A	BLK3710A	6	11/32 X 11/32
3/8 X 3/8	0.8	0.2	4.8	.07	3710	BLK3710	6	3/8 X 3/8
7/16 X 7/16	0.9	0.2	5.0	.08	3711	BLK3711	6	7/16 X 7/16
1/2 X 1/2	1.0	0.2	5.5	.10	3712	BLK3712	6	1/2 X 1/2
9/16 X 9/16	1.1	0.3	6.0	.12	3713	BLK3713	6	9/16 X 9/16
5/8 X 5/8	1.2	0.3	6.3	.18	3714	BLK3714	6	5/8 X 5/8
11/16 X 11/16	1.3	0.3	7.0	.22	3715	BLK3715	6	11/16 X 11/16
3/4 X 3/4	1.4	0.3	7.3	.24	3716	BLK3716	6	3/4 X 3/4
13/16 X 13/16	1.6	0.3	7.5	.29	3717	BLK3717	6	13/16 X 13/16
7/8 X 7/8	1.7	0.3	8.3	.35	3718	BLK3718	6	7/8 X 7/8
15/16 X 15/16	1.8	0.3	9.0	.38	3719	BLK3719	6	15/16 X 15/16
1 X 1	1.9	0.3	9.8	.52	3720	BLK3720	6	1 X 1
1 1/16 X 1 1/16	2.1	0.3	10.0	.60	3721	BLK3721	6	1 1/16 X 1 1/16
1 1/8 X 1 1/8	2.3	0.3	11.0	.75	3722	BLK3722	6	1 1/8 X 1 1/8
1 3/16 X 1 3/16	2.3	0.3	11.0	.74	3722A	BLK3722A	6	1 3/16 X 1 3/16
1 1/4 X 1 1/4	2.4	0.3	11.5	.83	3723	BLK3723	6	1 1/4 X 1 1/4
1 3/8 X 1 3/8	2.7	0.4	12.5	1.2	3724	BLK3724	6	1 3/8 X 1 3/8
1 7/16 X 1 7/16	2.7	0.4	12.5	1.2	3725	BLK3725	6	1 7/16 X 1 7/16
1 1/2 X 1 1/2	2.7	0.4	12.5	1.2	3726	BLK3726	6	1 1/2 X 1 1/2
1 5/8 X 1 5/8	3.2	0.5	15.8	3.0	3727	BLK3727	1	1 5/8 X 1 5/8
1 11/16 X 1 11/16	3.3	0.5	16.5	3.4	3728	BLK3728	1	1 11/16 X 1 11/16
1 3/4 X 1 3/4	3.4	0.5	17.0	3.8	3729	BLK3729	1	1 3/4 X 1 3/4
1 13/16 X 1 13/16	3.6	0.5	17.8	4.5	3730	BLK3730	1	1 13/16 X 1 13/16
1 7/8 X 1 7/8	3.7	0.6	18.5	5.2	3731	BLK3731	1	1 7/8 X 1 7/8
2 X 2	3.9	0.6	19.3	5.9	3732	BLK3732	1	2 X 2

Wrench Openings	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Wrench Openings
	A	B	C		Part No.		
9 mm	19.8	5.6	120.7	.07	3709 MM	6	9 mm
10 mm	19.8	5.6	120.7	.07	3710 MM	6	10 mm
11 mm	22.4	5.6	127.0	.08	3711 MM	6	11 mm
12 mm	22.4	5.6	127.0	.08	3712 MM	6	12 mm
13 mm	25.4	5.6	139.7	.10	3713 MM	6	13 mm
14 mm	28.4	6.4	152.4	.12	3714 MM	6	14 mm
15 mm	28.4	6.4	152.4	.12	3715 MM	6	15 mm
16 mm	30.2	7.1	158.8	.18	3716 MM	6	16 mm
17 mm	30.2	7.1	158.8	.18	3717 MM	6	17 mm
18 mm	33.3	7.1	177.8	.22	3718 MM	6	18 mm
19 mm	36.6	7.1	184.2	.24	3719 MM	6	19 mm
20 mm	36.6	7.1	184.2	.24	3720 MM	6	20 mm
21 mm	40.4	7.1	190.5	.29	3721 MM	6	21 mm
22 mm	40.4	7.1	190.5	.29	3722 MM	6	22 mm
23 mm	42.9	7.1	209.6	.35	3723 MM	6	23 mm
24 mm	46.0	7.1	228.6	.38	3724 MM	6	24 mm
27 mm	52.3	7.9	254.0	.52	3727 MM	6	27 mm
30 mm	57.2	7.9	279.4	.60	3730 MM	6	30 mm
32 mm	60.5	8.6	292.1	.83	3732 MM	6	32 mm
34 mm	67.6	10.4	317.5	1.2	3734 MM	6	34 mm
36 mm	67.6	10.4	317.5	1.2	3736 MM	6	36 mm

Hydraulic Wrench Sets
Angle Openings SAE & Metric

Convenient Angle Wrench Sets Keep Popular Sizes in Handy, Easy to Carry Roll Bags. 8 Sets Provide the Full Range of Openings in Chrome or Industrial Black Finish.

Chrome Sets SAE & Metric

OB7K



OPENING	PART NO.
OB7K	
3/8 × 3/8	3710
7/16 × 7/16	3711
1/2 × 1/2	3712
9/16 × 9/16	3713
5/8 × 5/8	3714
11/16 × 11/16	3715
3/4 × 3/4	3716
Roll Bag	C70
OB7KM	
10mm	3710MM
11mm	3711MM
12mm	3712MM
13mm	3713MM
14mm	3714MM
15mm	3715MM
16mm	3716MM
Roll Bag	C70

OB11K



OPENING	PART NO.
OB11K	
3/8 × 3/8	3710
7/16 × 7/16	3711
1/2 × 1/2	3712
9/16 × 9/16	3713
5/8 × 5/8	3714
11/16 × 11/16	3715
3/4 × 3/4	3716
13/16 × 13/16	3717
7/8 × 7/8	3718
15/16 × 15/16	3719
1 × 1	3720
Roll Bag	C111

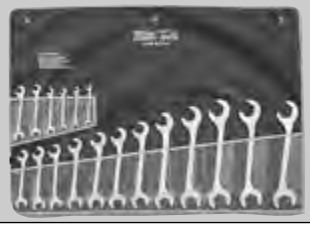
OB15K



OPENING	PART NO.
OB15K	
3/8 × 3/8	3710
7/16 × 7/16	3711
1/2 × 1/2	3712
9/16 × 9/16	3713
5/8 × 5/8	3714
11/16 × 11/16	3715
3/4 × 3/4	3716
13/16 × 13/16	3717
7/8 × 7/8	3718
15/16 × 15/16	3719
1 × 1	3720
1 1/16 × 1 1/16	3721
1 1/8 × 1 1/8	3722
1 3/16 × 1 3/16	3722
1 1/4 × 1 1/4	3723
Roll Bag	C180

OPENING	PART NO.
OB15KM	
10mm	3710MM
11mm	3711MM
12mm	3712MM
13mm	3713MM
14mm	3714MM
15mm	3715MM
16mm	3716MM
17mm	3717MM
18mm	3718MM
19mm	3719MM
21mm	3721MM
22mm	3722MM
24mm	3724MM
27mm	3727MM
30mm	3730MM
Roll Bag	C180

OB18K



OPENING	PART NO.
OB18K	
11/32 × 11/32	3710A
3/8 × 3/8	3710
7/16 × 7/16	3711
1/2 × 1/2	3712
9/16 × 9/16	3713
5/8 × 5/8	3714
11/16 × 11/16	3715
3/4 × 3/4	3716
13/16 × 13/16	3717
7/8 × 7/8	3718
15/16 × 15/16	3719
1 × 1	3720
1 1/16 × 1 1/16	3721
1 1/8 × 1 1/8	3722
1 1/4 × 1 1/4	3723
1 3/8 × 1 3/8	3724
1 7/16 × 1 7/16	3725
1 1/2 × 1 1/2	3726
Roll Bag	C180

OPENING	PART NO.
OB18KM	
9mm	3709MM
10mm	3710MM
11mm	3711MM
12mm	3712MM
13mm	3713MM
14mm	3714MM
15mm	3715MM
16mm	3716MM
17mm	3717MM
18mm	3718MM
19mm	3719MM
21mm	3721MM
22mm	3722MM
24mm	3724MM
27mm	3727MM
32mm	3732MM
34mm	3734MM
36mm	3736MM
Roll Bag	C180

Industrial Black Sets

BOB7K



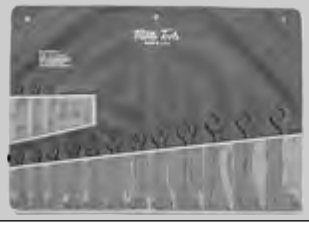
OPENING	PART NO.
3/8 × 3/8	BLK3710
7/16 × 7/16	BLK3711
1/2 × 1/2	BLK3712
9/16 × 9/16	BLK3713
5/8 × 5/8	BLK3714
11/16 × 11/16	BLK3715
3/4 × 3/4	BLK3716
Roll Bag	C70

BOB11K



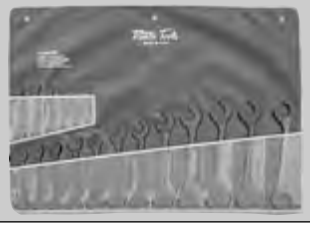
OPENING	PART NO.
3/8 × 3/8	BLK3710
7/16 × 7/16	BLK3711
1/2 × 1/2	BLK3712
9/16 × 9/16	BLK3713
5/8 × 5/8	BLK3714
11/16 × 11/16	BLK3715
3/4 × 3/4	BLK3716
13/16 × 13/16	BLK3717
7/8 × 7/8	BLK3718
15/16 × 15/16	BLK3719
1 × 1	BLK3720
Roll Bag	C111

BOB15K



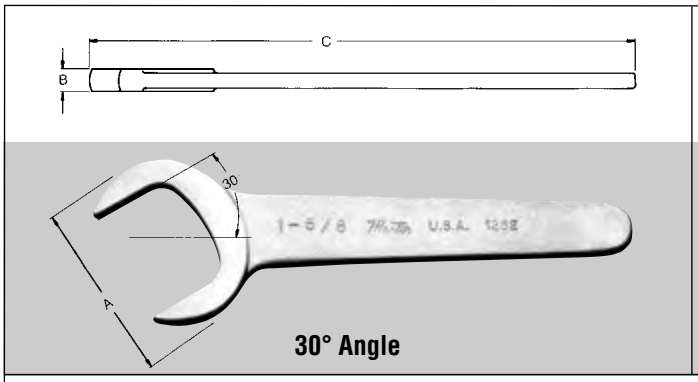
OPENING	PART NO.
3/8 × 3/8	BLK3710
7/16 × 7/16	BLK3711
1/2 × 1/2	BLK3712
9/16 × 9/16	BLK3713
5/8 × 5/8	BLK3714
11/16 × 11/16	BLK3715
3/4 × 3/4	BLK3716
13/16 × 13/16	BLK3717
7/8 × 7/8	BLK3718
15/16 × 15/16	BLK3719
1 × 1	BLK3720
1 1/16 × 1 1/16	BLK3721
1 1/8 × 1 1/8	BLK3722
1 3/16 × 1 3/16	BLK3722A
1 1/4 × 1 1/4	BLK3723
Roll Bag	C180

BOB18K

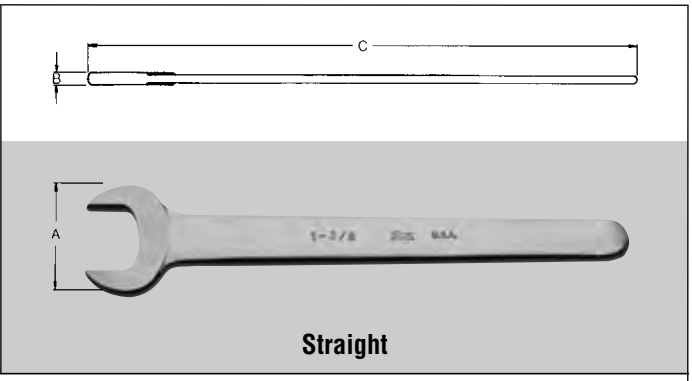


OPENING	PART NO.
11/32 × 11/32	BLK3710A
3/8 × 3/8	BLK3710
7/16 × 7/16	BLK3711
1/2 × 1/2	BLK3712
9/16 × 9/16	BLK3713
5/8 × 5/8	BLK3714
11/16 × 11/16	BLK3715
3/4 × 3/4	BLK3716
13/16 × 13/16	BLK3717
7/8 × 7/8	BLK3718
15/16 × 15/16	BLK3719
1 × 1	BLK3720
1 1/16 × 1 1/16	BLK3721
1 1/8 × 1 1/8	BLK3722
1 1/4 × 1 1/4	BLK3723
1 3/8 × 1 3/8	BLK3724
1 7/16 × 1 7/16	BLK3725
1 1/2 × 1 1/2	BLK3726
Roll Bag	C180

Service Wrenches – SAE & Metric



30° Angle



Straight

30° Angle Service Wrenches

Wrench Opening	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Part No.	Part No.		
¾	1 11/16	¼	6 5/16	.22	1224	BLK-1224	6	¾
13/16	1 11/16	¼	6 5/16	.22	1226	BLK1226	6	13/16
⅞	1 11/16	¼	6 5/16	.22	1228	BLK1228	6	⅞
15/16	1⅞	¼	6⅞	.25	1230	BLK-1230	6	15/16
1	1⅞	¼	6⅞	.25	1232	BLK1232	6	1
1 1/16	1⅞	¼	6⅞	.25	1234	BLK1234	6	1 1/16
1⅛	2 1/16	¼	7 3/16	.31	1236	BLK1236	6	1⅛
1 3/16	2 1/16	¼	7 3/16	.31	1238	BLK1238	6	1 3/16
1¼	2 1/16	¼	7 3/16	.30	1240	BLK1240	6	1¼
1 5/16	2 1/16	¼	7 3/16	.30	1236S	BLK1236S	6	1 5/16
1 5/16	2½	9/32	7 11/16	.45	1242	BLK1242	6	1 5/16
1⅜	2½	9/32	7 11/16	.44	1244	BLK1244	6	1⅜
1 7/16	2½	9/32	7 11/16	.43	1246	BLK1246	6	1 7/16
1½	2½	9/32	7 11/16	.42	1248	BLK1248	6	1½
1 9/16	2⅝	9/32	7 15/16	.43	1250	BLK1250	6	1 9/16
1⅝	2⅝	9/32	7 15/16	.43	1252	BLK1252	6	1⅝
1 11/16	2⅝	9/32	7 15/16	.42	1254	BLK1254	6	1 11/16
1¾	3⅛	5/16	8 9/16	.70	1256	BLK1256	6	1¾
1 13/16	3⅛	5/16	8 9/16	.69	1258	BLK1258	6	1 13/16
1⅞	3⅛	5/16	8 9/16	.69	1260	BLK1260	6	1⅞
1 15/16	3⅛	5/16	8 9/16	.68	1262	BLK1262	6	1 15/16
2	3½	5/16	9½	.66	1264	BLK1264	6	2
2⅛	3½	5/16	9½	.65	1268	BLK1268	6	2⅛
2¼	3½	5/16	9½	.61	1272	BLK1272	6	2¼
2⅜	3½	5/16	9½	.61	1276	BLK1276	6	2⅜
2½	3½	5/16	9½	.59	1272S	BLK1272S	6	2½
2 9/16	3½	5/16	9½	.57	1264S	BLK1264S	6	2 9/16

SW11K



BSW11K



30° Angle Service Wrench Sets

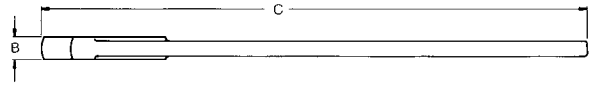
Chrome Set Part No.		Industrial Black Set Part No.	
SW11K		BSW11K	
Opening	Chrome Part No.	Opening	Industrial Black Part No.
¾	1224	¾	BLK-1224
13/16	1226	13/16	BLK1226
⅞	1228	⅞	BLK1228
15/16	1230	15/16	BLK-1230
1	1232	1	BLK1232
1 1/16	1234	1 1/16	BLK1234
1⅛	1236	1⅛	BLK1236
1 3/16	1238	1 3/16	BLK1238
1¼	1240	1¼	BLK1240
1⅜	1244	1⅜	BLK1244
1½	1248	1½	BLK1248
Kit Bag	C111	Kit Bag	C111

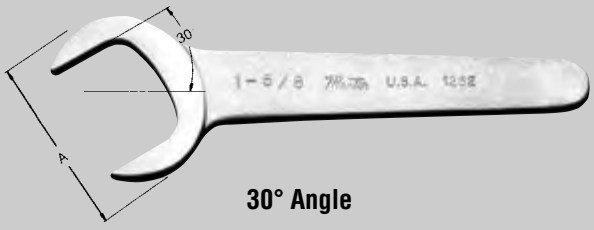
Straight Service Wrenches

Wrench Opening	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Part No.		
1	2½	¼	12¼	.77	1932	6	1
1⅛	2½	¼	12¼	.73	1936	6	1⅛
1½	2⅞	9/32	12¼	.93	1948	6	1½
1⅝	2⅞	9/32	12¼	.92	1952	6	1⅝
1¾	3 7/16	5/16	12¼	1.3	1956	6	1¾
2	3 7/16	5/16	12¼	1.3	1964	6	2
2¼	3 7/16	5/16	12¼	1.3	1972	6	2¼

Service Wrenches – Metric

- **Pump Wrenches - Chrome**
- **Thin Pattern for Use on Jam Nuts and in Confined Areas**
- **30º Angle Heads**





30° Angle

30° Angle Service Wrenches

Wrench Opening	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Part No.		
19 mm	42.9 mm	6.4 mm	160.3 mm	.22	1219MM	6	19 mm
21 mm	42.9 mm	6.4 mm	160.3 mm	.22	1221MM	6	21 mm
22 mm	42.9 mm	6.4 mm	160.3 mm	.22	1222MM	6	22 mm
24 mm	47.6 mm	6.4 mm	174.8 mm	.25	1224MM	6	24 mm
27 mm	47.6 mm	6.4 mm	174.8 mm	.25	1227MM	6	27 mm
30 mm	52.4 mm	6.4 mm	182.6 mm	.31	1230MM	6	30 mm
32 mm	52.4 mm	6.4 mm	182.6 mm	.30	1232MM	6	32 mm
36 mm	63.5 mm	7.1 mm	195.3 mm	.45	1236MM	6	36 mm
37 mm	63.5 mm	7.1 mm	195.3 mm	.43	1237MM	6	37 mm
38 mm	63.5 mm	7.1 mm	195.3 mm	.42	1238MM	6	38 mm
40 mm	66.7 mm	7.1 mm	201.7 mm	.43	1240MM	6	40 mm
41 mm	66.7 mm	7.1 mm	201.7 mm	.43	1241MM	6	41 mm
42 mm	66.7 mm	7.1 mm	201.7 mm	.43	1242MM	6	42 mm
44 mm	66.7 mm	7.1 mm	201.7 mm	.43	1244MM	6	44 mm
46 mm	79.4 mm	7.9 mm	217.4 mm	.70	1246MM	6	46 mm
48 mm	79.4 mm	7.9 mm	217.4 mm	.70	1248MM	6	48 mm
50 mm	79.4 mm	7.9 mm	217.4 mm	.68	1250MM	6	50 mm
52 mm	88.9 mm	7.9 mm	242.1 mm	.66	1252MM	6	52 mm
55 mm	88.9 mm	7.9 mm	242.1 mm	.66	1255MM	6	55 mm
60 mm	88.9 mm	7.9 mm	242.1 mm	.61	1260MM	6	60 mm
65 mm	88.9 mm	7.9 mm	242.1 mm	.57	1265MM	6	65 mm

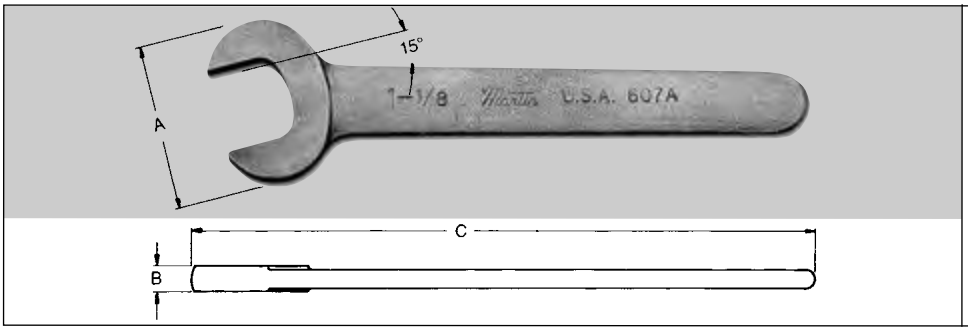
Chrome Set 30º

SW11KM



OPENING	CHROME PART NO.
19 mm	1219MM
21 mm	1221MM
22 mm	1222MM
24 mm	1224MM
27 mm	1227MM
30 mm	1230MM
32 mm	1232MM
36 mm	1236MM
37 mm	1237MM
38 mm	1238MM
40 mm	1240MM
Kit Bag	C111

Check Nut Wrenches – Fractional & Metric



Thin Pattern

15° Angle

Use on Check Nuts, Stop Nuts, Jam Nuts, Hydraulic Fitting

Smaller Sizes Compliment Service Wrenches

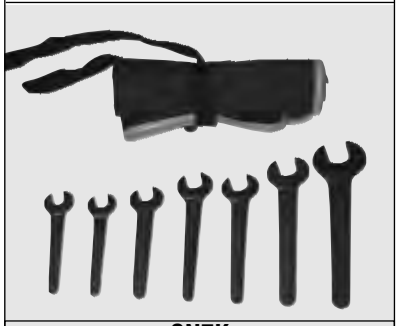
Check Nut Wrench - Fractional

Wrench Opening	Diameter of Head A	Thickness of Head B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Wrench Opening
7/16	1	1/8	4	.05	601A	6	7/16
1/2	1	1/8	4	.05	601	6	1/2
9/16	1 1/4	5/32	4 1/2	.11	602A	6	9/16
19/32	1 1/4	5/32	4 1/2	.11	602	6	19/32
5/8	1 1/2	3/16	5 1/8	.13	603A	6	5/8
11/16	1 1/2	3/16	5 1/8	.13	603	6	11/16
3/4	1 5/8	7/32	5 7/8	.19	604A	6	3/4
13/16	1 13/16	1/4	6 5/8	.28	605A	6	13/16
7/8	1 13/16	1/4	6 5/8	.28	605	6	7/8
15/16	2 1/8	9/32	7 1/2	.36	606A	6	15/16
1	2 1/8	9/32	7 1/2	.35	606B	6	1
1 1/16	2 7/16	5/16	8 1/2	.66	607	6	1 1/16
1 1/8	2 7/16	5/16	8 1/2	.65	607A	6	1 1/8
1 1/4	2 3/4	3/8	10	1.12	608	6	1 1/4
1 5/16	2 3/4	3/8	10	1.12	608A	6	1 5/16
1 1/2	3 3/16	7/16	11 1/2	1.5	609A	6	1 1/2
1 5/8	3 11/16	1/2	13	2.3	610	6	1 5/8
1 11/16	3 11/16	1/2	13	2.2	610A	6	1 11/1

Check Nut Wrench - Metric

Wrench Opening	Diameter of Head A	Thickness of Head B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Wrench Opening
10 mm	25.4 mm	3.2 mm	101.6 mm	.05	610MM	6	10 mm
11 mm	25.4 mm	3.2 mm	101.6 mm	.05	611MM	6	11 mm
12 mm	25.4 mm	3.2 mm	101.6 mm	.05	612MM	6	12 mm
13 mm	25.4 mm	3. mm	101.6 mm	.05	613MM	6	13 mm
14 mm	31.8 mm	4.0 mm	114.3 mm	.11	614MM	6	14 mm
15 mm	31.8 mm	4.0 mm	114.3 mm	.11	615MM	6	15 mm
16 mm	38.1 mm	4.8 mm	130.2 mm	.13	616MM	6	16 mm
17 mm	38.1 mm	4.8 mm	130.2 mm	.13	617MM	6	17 mm
18 mm	38.1 mm	4.8 mm	130.2 mm	.13	618MM	6	18 mm
19 mm	41.3 mm	5.6 mm	155.6 mm	.19	619MM	6	19 mm
21 mm	46.0 mm	6.4 mm	168.3 mm	.28	621MM	6	21 mm
22 mm	46.0 mm	6.4 mm	168.3 mm	.28	622MM	6	22 mm
24 mm	50.8 mm	7.1 mm	190.5 mm	.36	624MM	6	24 mm
27 mm	61.9 mm	7.9 mm	215.9 mm	.66	627MM	6	27 mm
30 mm	61.9 mm	7.9 mm	215.9 mm	.66	630MM	6	30 mm
32 mm	66.7 mm	9.5 mm	254.0 mm	1.12	632MM	6	32 mm
36 mm	66.7 mm	9.5 mm	254.0 mm	1.12	636MM	6	36 mm
37 mm	85.7 mm	11.1 mm	280.0 mm	1.50	637MM	6	37 mm
38 mm	85.7 mm	11.1 mm	289.0 mm	1.50	638MM	6	38 mm
41 mm	87.3 mm	12.7 mm	331.0 mm	2.1	641MM	6	41 mm

Sets



CN7K

OPENING	PART NO.
7/16	601A
1/2	601
9/16	602A
5/8	603A
11/16	603
3/4	604A
7/8	605
Kit Bag	C70



CN9KM

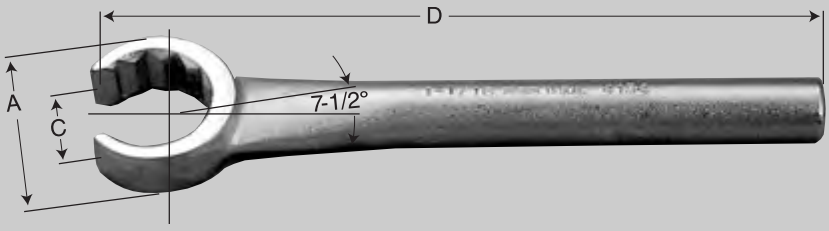
OPENING	PART NO.
10 mm	610MM
11 mm	611MM
12 mm	612MM
13 mm	613MM
14 mm	614MM
15 mm	615MM
16 mm	616MM
17 mm	617MM
19 mm	619MM
Kit Bag	C90

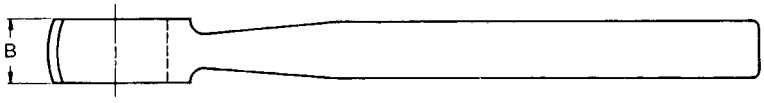
Flare Nut Wrenches

American Alloy Steel — **Chrome or Black Finish**

12 Point Opening — **Drop Forged**

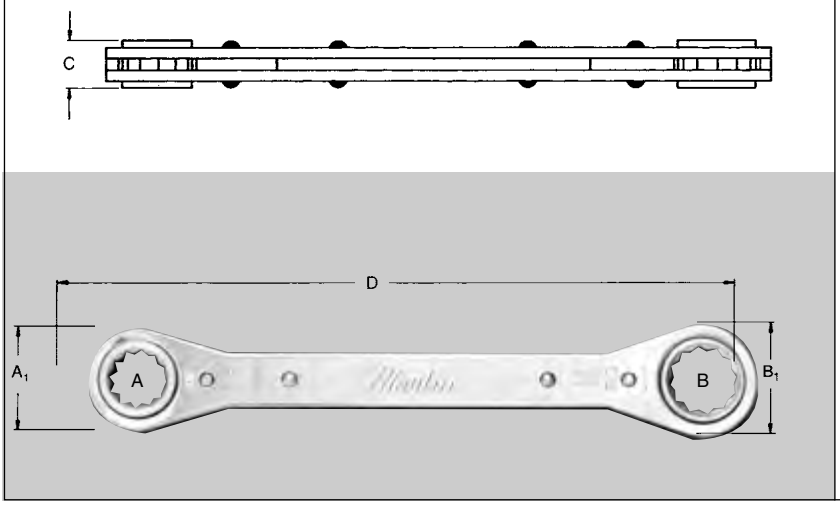
Flare Nut Wrench





Wrench Opening	Diameter of Head	Thickness of Head	Width of Slot	Length	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C	D		Part No.	Part No.		
3/8	3/4	3/8	9/32	6 7/16	.18	4112	BLK4112	6	3/8
7/16	13/16	3/8	11/32	6 7/16	.20	4114	BLK4114	6	7/16
1/2	7/8	7/16	3/8	6 13/16	.28	4116	BLK4116	6	1/2
9/16	1	7/16	7/16	6 13/16	.30	4118	BLK4118	6	9/16
5/8	1 1/16	1/2	1/2	7 1/16	.38	4120	BLK4120	6	5/8
11/16	1 1/8	1/2	9/16	7 1/16	.45	4122	BLK4122	6	11/16
3/4	1 7/32	9/16	5/8	7 7/16	.53	4124	BLK4124	6	3/4
13/16	1 5/16	5/8	21/32	7 7/16	.60	4126	BLK4126	6	13/16
7/8	1 7/16	5/8	11/16	7 1/2	.60	4128	BLK4128	6	7/8
15/16	1 1/2	5/8	3/4	7 5/8	.63	4130	BLK4130	6	15/16
1	1 9/16	5/8	3/4	7 13/16	.69	4132	BLK4132	6	1
1 1/16	1 5/8	11/16	13/16	7 13/16	.78	4134	BLK4134	6	1 1/16
1 1/8	1 11/16	11/16	7/8	7 13/16	.83	4136	BLK4136	6	1 1/8
1 1/4	1 13/16	11/16	1	7 15/16	.83	4140	BLK4140	6	1 1/4
1 3/8	2 1/16	13/16	1 1/16	9	1.3	4144	BLK4144	6	1 3/8
1 1/2	2 3/8	7/8	1 1/8	10	1.6	4148	BLK4148	6	1 1/2

Ratcheting Box Wrenches & Sets – Straight Pattern



Chrome Finish

Different Openings on Each End in Size from ¼" through ⅞".

12 Point with 6 Point Also Available on RB810, 1214 and 1618.

Wrench Openings	Type Opening	Diameter of Head		Thickness of Head	Overall Length	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Wrench Openings
A × B		A_1	B_1	C	D		Part No.		A × B
¼ × 5/16	6 pt.	9/16	⅝	⅜	4¼	.12	RB810	6	¼ × 5/16
¼ × 5/16	12 pt.	9/16	⅝	⅜	4¼	.13	RB810DH	6	¼ × 5/16
⅜ × 7/16	6 pt.	⅝	⅞	⅜	5½	.18	RB1214	6	⅜ × 7/16
⅜ × 7/16	12 pt.	⅝	⅞	⅜	5½	.19	RB1214DH	6	⅜ × 7/16
½ × 9/16	6 pt.	1	1⅛	½	6¾	.42	RB1618	6	½ × 9/16
½ × 9/16	12 pt.	1	1⅛	½	6¾	.42	RB1618DH	6	½ × 9/16
⅝ × 11/16	12 pt.	1¼	1 7/16	½	8	.54	RB2022	6	⅝ × 11/16
⅝ × ¾	12 pt.	1¼	1 7/16	½	8	.52	RB2024	6	⅝ × ¾
11/16 × 13/16	12 pt.	1 7/16	1 9/16	½	9¼	.78	RB2226	6	11/16 × 13/16
¾ × ⅞	12 pt.	1 7/16	1 9/16	½	9¼	.74	RB2428	6	¾ × ⅞

Sets

RB5K



OPENING	PART NO.
¼ × 5/16	RB810
⅜ × 7/16	RB1214
½ × 9/16	RB1618
⅝ × 11/16	RB2022
¾ × ⅞	RB2428
Kit Bag	C185

RB7K



OPENING	PART NO.
¼ × 5/16	RB810
⅜ × 7/16	RB1214
½ × 9/16	RB1618
⅝ × 11/16	RB2022
⅝ × ¾	RB2024
11/16 × 13/16	RB2226
¾ × ⅞	RB2428
Kit Bag	C187

Ratcheting Box Wrenches & Sets – 25° Offset Pattern

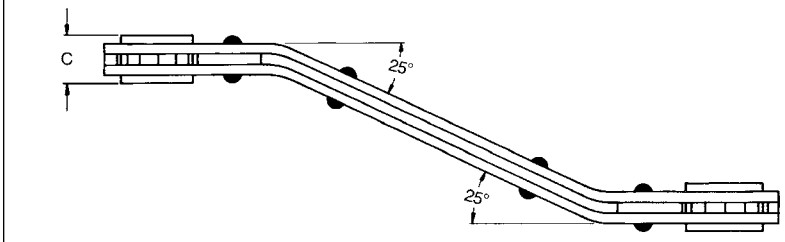
Chrome Finish

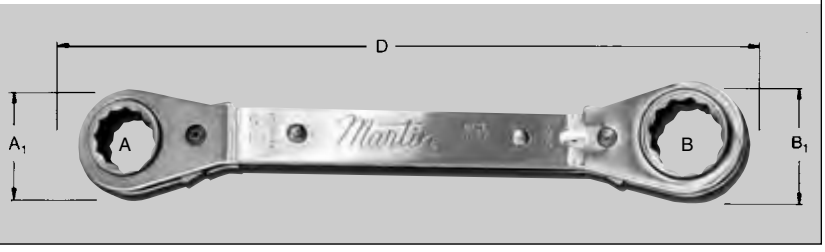
25° Offset

Size Openings from ¼" through ⅞" with Different Openings on Each End.

RBO810 through RBO1618
6 Point

RBO2022 through RBO2428
12 Point





Wrench Openings	Type Opening	Diameter of Head		Thickness of Head	Overall Length	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Wrench Openings
A × B		A_1	B_1	C	D		Part No.		A × B
¼ × 5/16	6 pt.	9/16	5/8	3/8	4 3/32	.12	RBO810	6	¼ × 5/16
3/8 × 7/16	6 pt.	5/8	7/8	3/8	5 7/32	.18	RBO1214	6	3/8 × 7/16
½ × 9/16	6 pt.	1	1 1/8	½	6 15/32	.42	RBO1618	6	½ × 9/16
5/8 × 11/16	12 pt.	1 ¼	1 7/16	½	7 21/32	.54	RBO2022	6	5/8 × 11/16
5/8 × ¾	12 pt.	1 ¼	1 7/16	½	7 21/32	.52	RBO2024	6	5/8 × ¾
11/16 × 13/16	12 pt.	1 7/16	1 9/16	½	8 ¾	.78	RBO2226	6	11/16 × 13/16
¾ × 7/8	12 pt.	1 7/16	1 9/16	½	8 ¾	.74	RBO2428	6	¾ × 7/8

Sets

RBO5K



OPENING	PART NO.
¼ × 5/16	RBO810
3/8 × 7/16	RBO1214
½ × 9/16	RBO1618
5/8 × 11/16	RBO2022
¾ × 7/8	RBO2428
Kit Bag	C185

RBO7K



OPENING	PART NO.
¼ × 5/16	RBO810
3/8 × 7/16	RBO1214
½ × 9/16	RBO1618
5/8 × 11/16	RBO2022
5/8 × ¾	RBO2024
11/16 × 13/16	RBO2226
¾ × 7/8	RBO2428
Kit Bag	C187

Heavy Duty Pipe Wrenches

Straight Iron Handle



Size	Capacity	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
6	¾"	½	PW6	6
8	1"	¾	PW8	6
10	1½"	1¾	PW10	6
12	2"	2¾	PW12	6
14	2"	3½	PW14	6
18	2½"	5¾	PW18	6
24	3"	9¾	PW24	3
36	5"	17	PW36	3

Straight Aluminum Handle



Size	Capacity	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
—	—	—	—	—
—	—	—	—	—
10	1½"	1	PWA10	6
—	—	—	—	—
14	2"	2	PWA14	6
18	2½"	3½	PWA18	6
24	3"	5¾	PWA24	6
36	5"	10	PWA36	3
48	6	17	PWA48	1

Pipe Wrench Parts

Hook Jaw

Part No.	Size
PW6HJ	6"
PW8HJ	8"
PW10HJ	10"
PW12HJ	12"
PW14HJ	14"
PW18HJ	18"
PW24HJ	24"
PW36HJ	36"
PW48HJ	48"

Heel Jaw & Pin

Part No.	Size
PW6HP	6"
PW8HP	8"
PW10HP	10"
PW12HP	12"
PW14HP	14"
PW18HP	18"
PW24HP	24"
PW36HP	36"
PW48HP	48"

Flat Spring & Ball

Part No.	Size
PW6SFC	6"
PW8SFC	8"
PW10SFC	10"
PW12SFC	12"
PW14SFC	14"
PW18SFC	18"
PW24SFC	24"
PW36SFC	36"
PW48SFC	48"

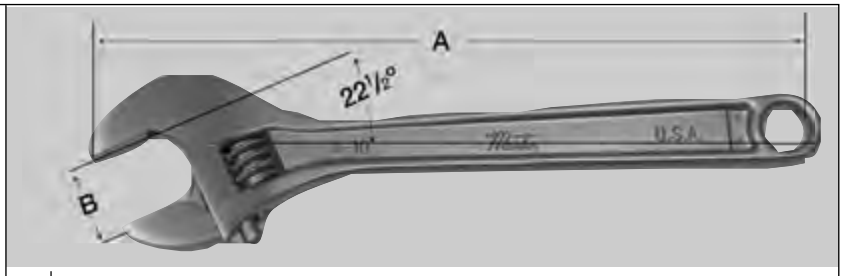
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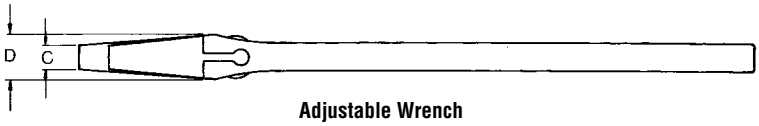
Part No.	Size
PW6N	6"
PW8N	8"
PW10N	10"
PW12N	12"
PW14N	14"
PW18N	18"
PW24N	24"
PW36N	36"
PW48N	48"

†Limited Supply

Adjustable Wrenches
Auto Wrench
Set Screw Wrenches

- Drop Forged American Alloy Steel
- Extra Wide Capacity
- Light Weight
- Thin Tapered Head
- 22-1/2 Degree Angle
- Nickel & Industrial Black Finish





Adjustable Wrench

Size Length	Capacity	Thickness of Head		Wt. Ea. Lbs.	Cobalt	Industrial Black	Std. Pkg. Qty.	Size Length
		Jaw Tip	Extreme					
A	B	C	D		Part No.	Part No.		A
6	15/16	7/32	3/8	.26	A6	A6T	6	6
8	1 1/8	17/64	1/2	.48	A8	A8T	6	8
10	1 5/16	23/64	19/32	.80	A10	A10T	6	10
12	1 1/2	15/32	23/32	1.30	A12	A12T	6	12
15	1 3/4	19/32	31/32	3.00	A15	A15T	6	15
18	2 3/16	23/32	1 3/16	5.65	A18	A18T	1	18
24	2 1/2	7/8	1 3/8	8.60	A24	A24T	1	24

Drop Forged, Machined, and Heat Treated. Well Suited for General Repair Work.

A	Max. Jaw Capacity	B	C	Weight Each-Lbs.	Chrome Part No.	Std. Pkg. Qty.
11	3	7/16	1 1/2	1.5	89311	1



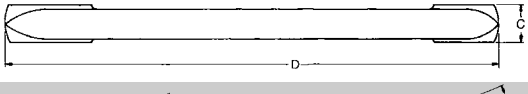
ADJUSTABLE AUTO WRENCH

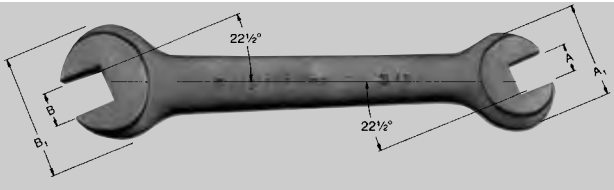
Set Screw Wrench

For Hard Square Set Screws, Cap Screws & Nuts

High Grade Carbon Steel

Machined to Industry Standards

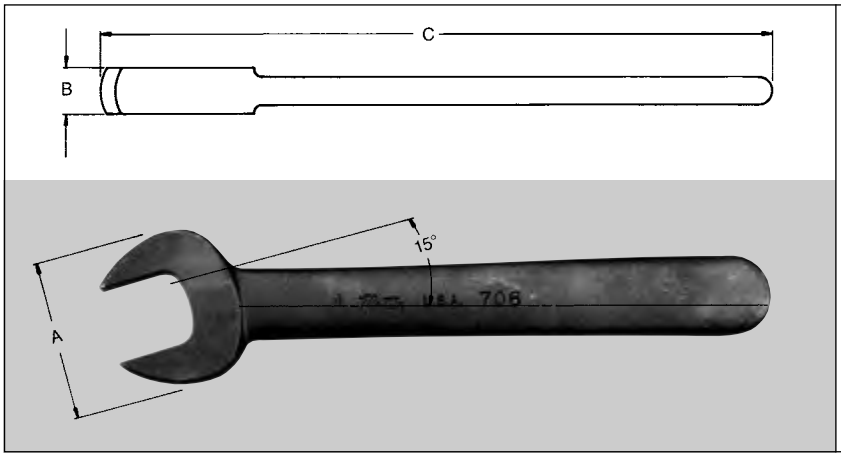




Set Screw Wrench

Wrench Openings	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Openings
A × B	$A_1 \times B_1$	C	D		Part No.		A× B
3/16 × 1/4	27/32 × 1 1/16	9/32	4 1/4	.13	523	6	3/16 × 1/4
1/4 × 5/16	27/32 × 1 1/16	9/32	4 1/4	.13	525	6	1/4 × 5/16
5/16 × 3/8	1 × 1 5/16	11/32	5	.21	527	6	5/16 × 3/8
3/8 × 7/16	1 1/4 × 1 3/8	3/8	5 3/4	.33	529	6	3/8 × 7/16
3/8 × 1/2	1 1/4 × 1 3/8	13/32	5 3/4	.35	530	6	3/8 × 1/2
7/16 × 1/2	1 1/4 × 1 3/8	13/32	5 3/4	.35	531	6	7/16 × 1/2
1/2 × 5/8	1 3/4 × 1 7/8	9/16	8 1/2	.90	534	6	1/2 × 5/8

Single Head Open End Engineers Wrench



American High Carbon Steel

Precision Forged and through Hardened.

1⅝" and Larger Sizes Have Tapered Handles

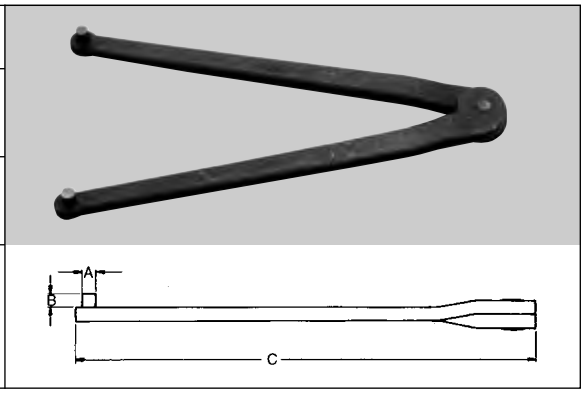
Industrial Black Finish

Wrench Opening	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Part No.		
7/16	1	5/16	4 5/8	.16	701	6	7/16
1/2	1	5/16	4 5/8	.16	1	6	1/2
9/16	1 3/16	5/16	5 1/2	.19	702	6	9/16
5/8	1 3/8	11/32	6 3/8	.32	703	6	5/8
11/16	1 3/8	11/32	6 3/8	.32	3	6	11/16
3/4	1 9/16	3/8	7 1/4	.44	704	6	3/4
13/16	1 3/4	7/16	8 1/8	.64	705	6	13/16
7/8	1 3/4	7/16	8 1/8	.64	5	6	7/8
15/16	2	7/16	9 1/4	.80	6A	6	15/16
1	2	7/16	9 1/4	.82	706	6	1
1 1/16	2 1/4	9/16	10 1/2	1.26	7	6	1 1/16
1 1/8	2 1/4	9/16	10 1/2	1.22	707	6	1 1/8
1 1/4	2 3/4	19/32	12	2.1	8	6	1 1/4
1 5/16	2 3/4	19/32	12	2.0	8A	6	1 5/16
1 3/8	2 3/4	19/32	12	2.0	708A	6	1 3/8
1 7/16	3	5/8	13 1/2	2.5	9	6	1 7/16
1 1/2	3	5/8	13 1/2	2.5	709	6	1 1/2
1 5/8	3 1/2	7/8	15	3.6	10	1	1 5/8
1 11/16	3 1/2	7/8	15	3.5	10A	1	1 11/16
1 13/16	3 3/4	15/16	16 1/2	5.0	11	1	1 13/16
1 7/8	3 3/4	15/16	16 1/2	5.0	11A	1	1 7/8
2	4 1/8	1	18 1/4	6.2	12	1	2
2 1/16	4 1/8	1	18 1/4	6.2	12A	1	2 1/16
2 3/16	4 1/2	1 1/16	20	8.0	13	1	2 3/16
2 1/4	4 1/2	1 1/16	20	8.0	13A	1	2 1/4
2 3/8	4 5/8	1 1/8	22	9.6	14	1	2 3/8
2 7/16	4 5/8	1 1/8	22	9.6	14A	1	2 7/16
2 9/16	5 1/4	1 3/16	24	13.2	15	1	2 9/16
2 5/8	5 1/4	1 3/16	24	13.1	15A	1	2 5/8
2 3/4	6	1 1/4	27	12.9	16	1	2 3/4
2 13/16	6	1 1/4	27	16.0	16B	1	2 13/16
2 15/16	6	1 1/4	27	16.0	16A	1	2 15/16
3	6 3/8	1 1/2	30	23.7	17A	1	3
3 1/8	6 3/8	1 1/2	30	23.7	17	1	3 1/8
3 3/8	7 1/2	1 5/8	34	31.6	18A	1	3 3/8
3 1/2	7 1/2	1 5/8	34	31.6	18	1	3 1/2
3 3/4	8	1 3/4	37	33.0	19B	1	3 3/4
3 7/8	8	1 3/4	37	33.0	19	1	3 7/8
4 1/8	8	1 3/4	37	32.5	19C	1	4 1/8
4 1/4	8	1 3/4	37	32.0	19A	1	4 1/4
4 1/2	10 1/4	1 7/8	42	50.5	20B	1	4 1/2
4 5/8	10 1/4	1 7/8	42	50.5	20	1	4 5/8
5	10 1/4	1 7/8	42	50.4	20A	1	5

Spanner Wrenches

Adjustable Face Spanner

Extreme Capacity	Diameter of Pin	Length of Pin	Overall Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
	A	B	C		Part No.	
2	3/16	7/32	6 1/4	.31	482	6
3	1/4	9/32	8 1/4	.52	483	6
4	5/16	11/32	10 1/4	1.02	484	6



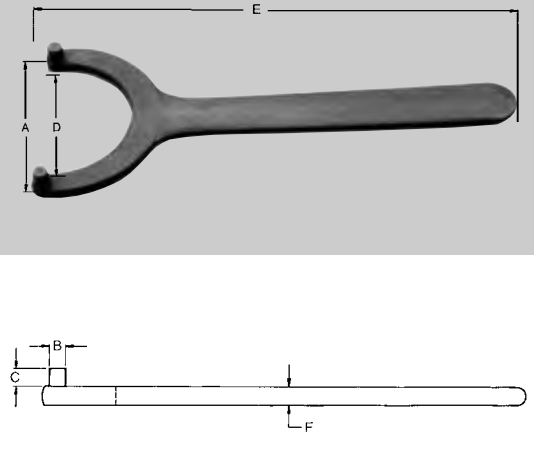
Pin Spanner

For Circle Diameter	Diameter of Pin	Length of Pin	Overall Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
	A	B	C		Part No.	
1	3/16	3/16	4	.08	452	6
1 1/4	13/64	3/16	4 1/2	.11	453	6
1 1/2	7/32	7/32	5	.13	454	6
1 3/4	15/64	7/32	5 1/2	.17	455	6
2	1/4	1/4	6	.20	456	6
2 1/4	17/64	1/4	6 1/2	.24	457	6
2 1/2	9/32	9/32	7	.28	458	6
2 3/4	19/64	9/32	7 1/2	.37	459	6
3	5/16	5/16	8	.43	460	6
3 1/4	21/64	5/16	8 1/2	.47	461	6
3 1/2	11/32	11/32	9	.50	462	6
3 3/4	23/64	11/32	9 1/2	.59	463	6
4	3/8	3/8	10	.69	464	6
5	7/16	7/16	12	1.15	466	6
6	1/2	1/2	14	1.90	468	6

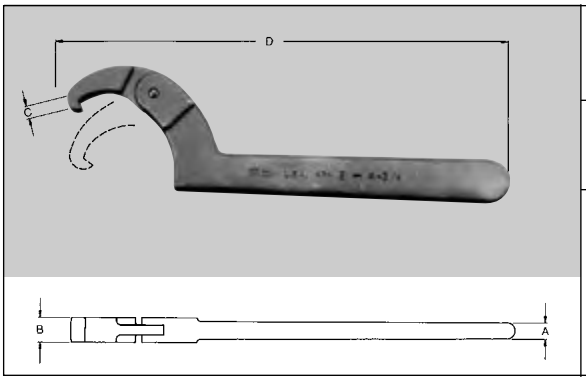


Face Spanner

Center Distance of Pins	Pins		Span of Jaws in Clear	Length from Center of Pins	Thick-ness	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
	Dia.	Length						
A	B	C	D	E	F		Part No.	
1	3/16	3/16	1 1/16	4 1/2	3/16	.12	418	6
1 1/4	7/32	7/32	7/8	5	3/16	.13	420	6
1 1/2	7/32	7/32	1 1/8	5 1/2	3/16	.23	422	6
1 3/4	7/32	7/32	1 3/8	6	7/32	.30	424	6
2	1/4	1/4	1 19/32	6 1/2	7/32	.39	426	6
2 1/4	1/4	1/4	1 27/32	7	7/32	.42	428	6
2 1/2	9/32	9/32	2 1/32	7 1/2	1/4	.52	430	6
2 3/4	9/32	9/32	2 9/32	8	1/4	.59	432	6
3	5/16	5/16	2 1/2	8 1/2	1/4	.70	434	6
3 1/4	5/16	5/16	2 3/4	9 1/8	1/4	.82	436	6
3 1/2	5/16	5/16	3	9 3/4	1/4	.89	438	6
3 3/4	3/8	3/8	3 3/16	10 3/8	1/4	1.0	440	6
4	3/8	3/8	3 7/16	11	1/4	1.1	442	6

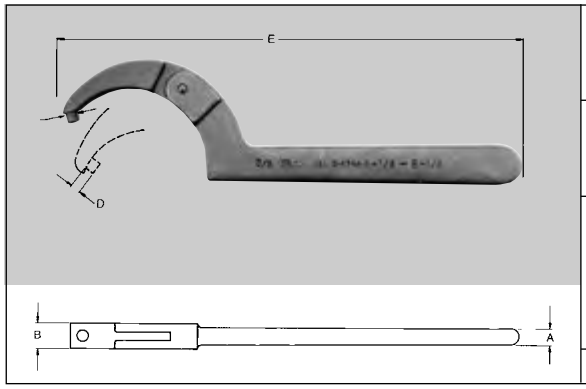


Spanner Wrenches & Sets – Adjustable



Adjustable Hook Spanner

Capacity Range	Thickness of Handle	Thickness of Hook	Depth of Hook	Overall Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
	A	B	C	D		Part No.	
¾ to 2	¼	⅜	⅛	6½	.23	471	6
1¼ to 3	9/32	½	5/32	8 1/16	.43	472	6
2 to 4¾	11/32	17/32	7/32	11 3/16	1.03	474	6
4½ to 6¼	11/32	17/32	¼	12	1.07	474A	6
6⅛ to 8¾	11/32	17/32	5/16	13 5/16	1.40	474B	6



Adjustable Pin Spanner

Capacity Range	Thickness		Pin Size		Overall Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
	Handle	Hook	Diameter	Length				
	A	B	C	D	E		Part No.	
¾ to 2	¼	⅜	⅛	⅛	6½	.23	0471	6
¾ to 2	¼	⅜	3/16	5/32	6½	.23	0471A	6
1¼ to 3	9/32	½	3/16	3/16	8 1/16	.42	0472	6
1¼ to 3	9/32	½	¼	7/32	8 1/16	.42	0472A	6
2 to 4¾	11/32	17/32	¼	¼	11 3/16	.99	0474	6
4½ to 6¼	11/32	17/32	⅜	¼	12 3/16	1.08	0474A	6

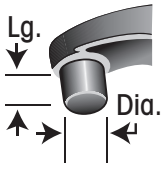
Adjustable Spanner Wrench Sets



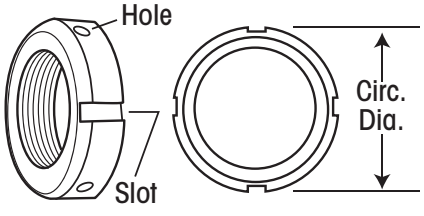
SPW6K
0471
0471A
0472
0472A
0474
0474A
C60B Kit Bag



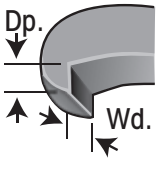
SHW5K
471
472
474
474A
474B
C60B Kit Bag



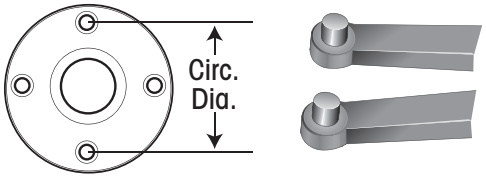
Adjustable Pin Spanner



Pins fit into the holes or slots on the side of the flange or collar.



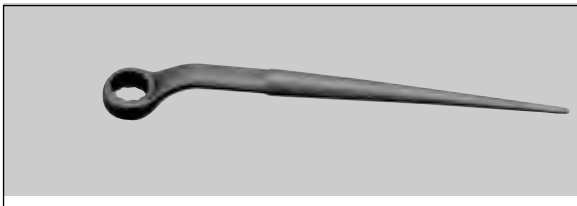
Adjustable Hook Spanner

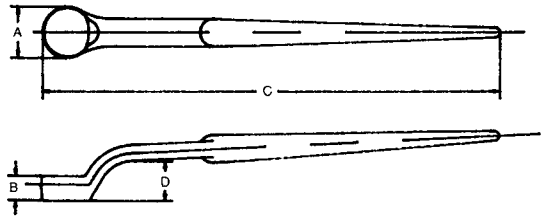


Pins fit into the holes or slots on the face of the flange or collar.

Adjustable Face Spanner

Structural Wrenches





Structural Box Wrench Heads are Offset from Handle to Permit Clearance of Obstructions.

Industrial Black

Handles are Tapered to Align Bolt Holes.

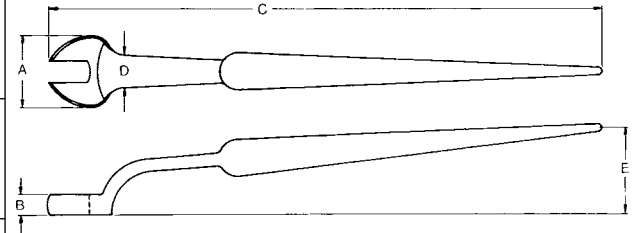
Structural Box Wrenches

Wrench Opening	Diameter of Head A	Thickness of Head B	Length C	Offset at End D	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.	Wrench Opening
13/16	1 15/32	11/16	12	1 25/32	1.3	8905A	1	13/16
7/8	1 15/32	11/16	12	1 25/32	1.3	8905	1	7/8
15/16	1 5/8	13/16	13	1 61/64	1.3	8906	1	15/16
1	1 5/8	13/16	13	1 61/64	1.3	8906B	1	1
1 1/16	1 53/64	7/8	15	2 9/64	1.9	8907	1	1 1/16
1 1/8	1 53/64	7/8	15	2 9/64	1.9	8907A	1	1 1/8
1 1/4	2 5/64	15/16	17	2 21/64	2.6	8908	1	1 1/4
1 5/16	2 5/64	15/16	17	2 21/64	2.0	8908A	1	1 5/16
1 7/16	2 3/8	1 1/8	19	2 3/4	3.5	8909	1	1 7/16
1 1/2	2 3/8	1 1/8	19	2 3/4	3.5	8909A	1	1 1/2
1 5/8	2 5/8	1 3/16	21	2 7/8	4.8	8910	1	1 5/8
1 11/16	2 5/8	1 3/16	21	2 7/8	4.7	8910A	1	1 11/16
1 13/16	2 29/32	1 1/4	22	3	6.6	8911	1	1 13/16
1 7/8	2 29/32	1 1/4	22	3	6.6	8911A	1	1 7/8
2	3 5/32	1 3/8	24	3 5/32	6.5	8912	1	2
2 3/16	3 15/32	1 1/2	26	3 1/2	7.3	8913	1	2 3/16
2 3/8	3 23/32	1 5/8	28	3 11/16	8.5	8914	1	2 3/8
2 9/16	3 29/32	1 3/4	29	3 13/16	9.2	8915	1	2 9/16
2 3/4	4 5/32	1 7/8	30	3 9/32	9.8	8916	1	2 3/4

Structural Wrench Offset

Wrench Opening	Diameter of Head A	Thickness of Head B	Length C	Handle at Head D	Offset at End E	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Wrench Opening
9/16	1 9/16	7/16	12	13/16	1 11/16	.56	901B	1	9/16
5/8	1 9/16	7/16	12	13/16	1 11/16	.56	903A	1	5/8
11/16	1 9/16	7/16	12	13/16	1 11/16	.56	903	1	11/16
3/4	1 9/16	7/16	12	13/16	1 11/16	.70	904A	1	3/4
13/16	2	17/32	14 1/2	15/16	1 7/8	1.3	905A	1	13/16
7/8	2	17/32	14 1/2	15/16	1 7/8	1.3	905	1	7/8
15/16	2	17/32	14 1/2	15/16	1 7/8	1.3	906C	1	15/16
1	2	17/32	14 1/2	15/16	1 7/8	1.3	906B	1	1
1 1/16	2 1/4	5/8	16	1 1/16	2 3/8	1.9	907	1	1 1/16
1 1/8	2 1/4	5/8	16	1 1/16	2 3/8	1.9	907A	1	1 1/8
1 1/4	2 13/16	11/16	19	1 1/4	2 3/4	2.6	908	1	1 1/4
1 5/16	2 13/16	11/16	19	1 1/4	2 3/4	2.6	908A	1	1 5/16
1 7/16	3 3/8	3/4	20	1 1/4	3 1/16	3.5	909	1	1 7/16
1 1/2	3 3/8	3/4	20	1 1/4	3 1/16	3.5	909A	1	1 1/2
1 5/8	3 19/32	13/16	23	1 1/2	3 3/8	4.8	910	1	1 5/8
1 11/16	3 19/32	13/16	23	1 1/2	3 3/8	4.7	910A	1	1 11/16
1 13/16	4 1/8	13/16	24	1 5/8	3 11/16	6.6	911	1	1 13/16
1 7/8	4 1/8	13/16	24	1 5/8	3 11/16	6.6	911A	1	1 7/8
2	4 1/8	13/16	24	1 5/8	3 11/16	6.5	912	1	2





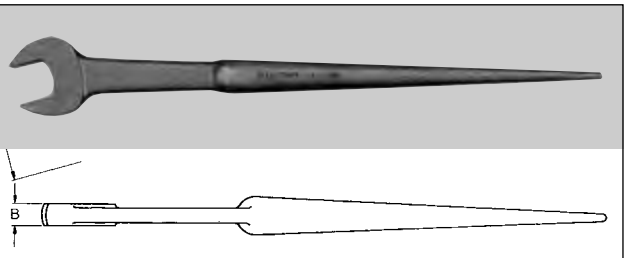
Structural Wrench Heads are Offset from Handle to Permit Clearance of Obstructions.

Handles are Tapered to Align Bolt Holes.

Construction and Box Wrenches

Construction Wrench 15° Angle

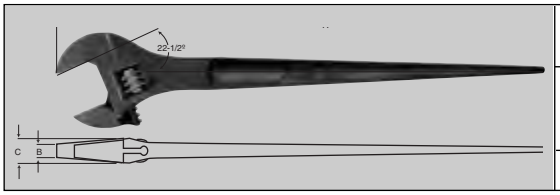
Wrench Opening	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Part No.		
5/8	1 9/16	7/16	12	.62	203A	1	5/8
11/16	1 9/16	7/16	12	.62	203	1	11/16
3/4	1 9/16	7/16	12	.58	204A	1	3/4
7/8	2	17/32	14 1/2	2.0	205	1	7/8
15/16	2	17/32	14 1/2	2.0	206C	1	15/16
1	2	17/32	14 1/2	2.0	206B	1	1
1 1/16	2 1/4	5/8	17	1.8	207	1	1 1/16
1 1/8	2 1/4	5/8	17	1.8	207A	1	1 1/8
1 1/4	2 5/8	11/16	19	2.7	208	1	1 1/4
1 5/16	2 5/8	11/16	19	2.7	208A	1	1 5/16
1 7/16	2 5/8	11/16	19	2.6	209	1	1 7/16
1 1/2	2 5/8	11/16	19	2.6	209A	1	1 1/2
1 5/8	4	15/16	22 11/16	7.0	210	1	1 5/8
1 11/16	4	15/16	22 11/16	7.0	210A	1	1 11/16
1 13/16	4	15/16	22 11/16	6.9	211	1	1 13/16
1 7/8	4	15/16	22 11/16	6.9	211A	1	1 7/8
2	4	15/16	22 11/16	6.8	212	1	2



Drop Forged from High Grade Carbon Steel, through Hardening.

Straight Handle with 15° Angle Opening.

Handles are Tapered to Align Bolt Holes.



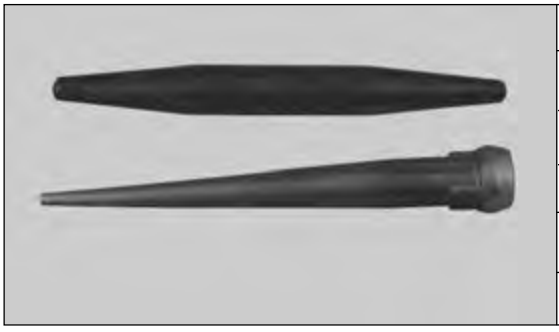
Adjustable Construction Wrench

Capacity	Size Length	Thickness of Head		Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
		Jaw Tip	Extreme				
	A	B	C		Part No.		
1 1/2	16	7/32	9/16	2.3	A200T	1	1 1/2



Ratcheting Construction Wrench

Capacity	Size Length	Thickness of Head		Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
		Jaw Tip	Extreme				
	A	B	C		Part No.		
1/2" DR	16	7/32	9/16	2	R200	1	1/2" DR



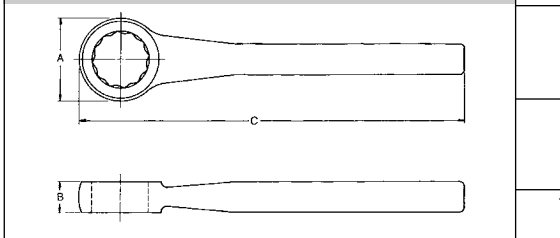
Barrel Drift Pins

Standard Diameter	Overall Length	Length of Taper	Point Size	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
					Part No.	
15/16	8 1/2	2 1/2	7/16	1.1	635	1
1 1/16	8 1/2	2 1/2	9/16	1.5	635	1

Broad Head Bull Pins

Standard Diameter	Overall Length	Length of Taper	Point Size	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
					Part No.	
1 1/16	10	8	1/4	1.6	649	1
1 1/4	13	10	5/16	3.0	650	1





12 Point Box Opening

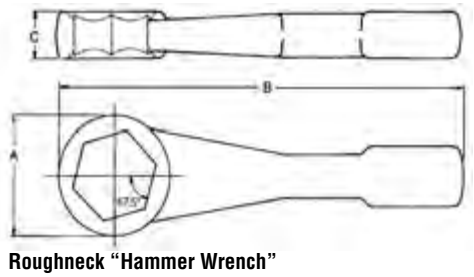
Box Wrenches

Wrench Opening	Diameter of Head	Thickness of Head	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
1/2	29/32	3/8	6 25/32	.28	801	6	1/2
9/16	1 1/32	7/16	6 25/32	.30	802A	6	9/16
5/8	1 1/16	1/2	7 1/8	.38	803A	6	5/8
11/16	1 1/8	1/2	7 3/16	.45	803	6	11/16
3/4	1 7/32	9/16	7 7/16	.53	804A	6	3/4
7/8	1 3/8	5/8	7 1/2	.60	805	6	7/8
15/16	1 7/16	5/8	7 13/16	.63	806	6	15/16
1	1 9/16	11/16	7 13/16	.69	806B	6	1
1 1/16	1 5/8	3/4	7 15/16	.78	807	6	1 1/16
1 1/8	1 11/16	25/32	7 15/16	.83	807A	6	1 1/8
1 1/4	1 23/32	13/16	7 15/16	.83	808	6	1 1/4
1 1/2	2 3/16	7/8	10	1.6	809A	6	1 1/2

Striking Face
6 Point Box Wrenches SAE
12 Point Box Wrenches SAE & Metric

Wrench Opening (Nut Size)	Diameter of Head A	Length B	Thickness of Head C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Wrench Opening (Nut Size)
1 1/16	1 25/32	9 7/8	5/8	1.9	RN7063	1	1 1/16
1 1/4	2	10 1/4	23/32	2.1	RN7075	1	1 1/4
1 7/16	2 17/64	10 9/16	7/8	2.6	RN7088	1	1 7/16
1 5/8	2 31/64	11	61/64	2.9	RN7100	1	1 5/8
1 13/16	2 21/32	11 5/16	63/64	3.5	RN7113	1	1 13/16
2	3 1/32	11 11/16	1 7/32	4.0	RN7125	1	2
2 3/16	3 3/32	12	1 1/4	5.2	RN7138	1	2 3/16
2 3/8	3 13/32	12 3/8	1 7/16	6.0	RN7150	1	2 3/8
2 9/16	3 3/4	12 11/16	1 17/32	6.6	RN7163	1	2 9/16
2 3/4	4 11/64	13 1/16	1 17/32	7.5	RN7175	1	2 3/4
2 15/16	4 23/64	13 7/16	1 17/32	7.9	RN7188	1	2 15/16
3 1/8	4 31/64	13 13/16	1 5/8	9.4	RN7200	1	3 1/8
3 1/2	4 31/32	14 1/8	1 23/32	10.5	RN7225	1	3 1/2
3 7/8	5 35/64	14 1/2	1 23/32	13.3	RN7250	1	3 7/8



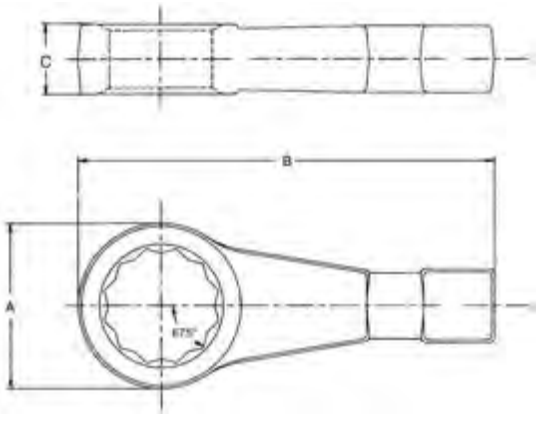


Roughneck "Hammer Wrench"

Straight Pattern — 6 Point Alloy Steel — Drop Forged

Wrench Opening (Nut Size)	Diameter of Head A	Length B	Thickness of Head C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Wrench Opening (Nut Size)
1	1 25/32	9 7/8	5/8	1.9	1807B	1	1
1 1/16	1 25/32	9 7/8	5/8	1.9	1807	1	1 1/16
1 1/8	1 25/32	9 7/8	5/8	1.9	1807A	1	1 1/8
1 3/16	2	10 1/4	23/32	2.1	1808B	1	1 3/16
1 1/4	2	10 1/4	23/32	2.1	1808	1	1 1/4
1 5/16	2	10 1/4	23/32	2.1	1808A	1	1 5/16
1 3/8	2 17/64	10 9/16	7/8	2.6	1809B	1	1 3/8
1 7/16	2 17/64	10 9/16	7/8	2.6	1809	1	1 7/16
1 1/2	2 17/64	10 9/16	7/8	2.6	1809A	1	1 1/2
1 5/8	2 31/64	11	61/64	2.9	1810	1	1 5/8
1 11/16	2 31/64	11	61/64	2.9	1810A	1	1 11/16
1 3/4	2 21/32	11 5/16	63/64	3.5	1811B	1	1 3/4
1 13/16	2 21/32	11 5/16	63/64	3.5	1811	1	1 13/16
1 7/8	2 21/32	11 5/16	63/64	3.5	1811A	1	1 7/8
1 15/16	3 1/32	11 11/16	1 7/32	4.0	1812A	1	1 15/16
2	3 1/32	11 11/16	1 7/32	4.0	1812	1	2
2 1/16	3 1/32	11 11/16	1 7/32	4.0	1812B	1	2 1/16
2 1/8	3 3/32	12	1 1/4	5.2	1813B	1	2 1/8
2 3/16	3 3/32	12	1 1/4	5.2	1813	1	2 3/16
2 1/4	3 13/32	12 3/8	1 7/16	6.0	1813A	1	2 1/4
2 3/8	3 13/32	12 3/8	1 7/16	6.0	1814	1	2 3/8
2 7/16	3 3/4	12 11/16	1 17/32	6.5	1815B	1	2 7/16
2 1/2	3 3/4	12 11/16	1 17/32	6.5	1815C	1	2 1/2
2 9/16	3 3/4	12 11/16	1 17/32	6.5	1815	1	2 9/16
2 5/8	3 3/4	12 11/16	1 17/32	6.5	1815A	1	2 5/8
2 3/4	4 11/64	13 1/16	1 17/32	7.5	1816	1	2 3/4
2 13/16	4 23/64	13 7/16	1 17/32	7.9	1816C	1	2 13/16
2 15/16	4 23/64	13 7/16	1 17/32	7.9	1816B	1	2 15/16
3	4 31/64	13 13/16	1 5/8	9.4	1817A	1	3
3 1/8	4 31/64	13 13/16	1 5/8	9.4	1817	1	3 1/8
3 3/8	4 31/32	14 1/8	1 23/32	10.5	1818A	1	3 3/8
3-1/2	4 31/32	14 1/8	1 23/32	10.5	1818	1	3 1/2
3 3/4	5 35/64	14 1/2	1 23/32	13.3	1819B	1	3 3/4
3 7/8	5 35/64	14 1/2	1 23/32	13.3	1819	1	3 7/8
4 1/8	6 3/4	16 7/32	2 1/8	20.8	1820B	1	4 1/8
4 1/4	6 3/4	16 7/32	2 1/8	20.1	1820	1	4 1/4
4 1/2	7 1/4	18 7/32	3	35.2	1821B	1	4 1/2
4 5/8	7 1/4	18 7/32	3	38.0	1821	1	4 5/8
4 3/4	7 1/4	18 7/32	3	38.2	1822	1	4 3/4
32mm	50.8	260.4	18.3	2.1	1832MM	1	32 mm
36mm	57.7	268.2	22.4	2.6	1836MM	1	36 mm
41mm	63.0	279.4	24.1	2.9	1841MM	1	41 mm
46mm	67.6	287.3	24.9	3.5	1846MM	1	46 mm
50mm	67.6	287.3	24.9	3.5	1850MM	1	50 mm
55mm	83.3	304.8	31.8	5.2	1855MM	1	55 mm
60mm	86.6	314.5	36.6	6.0	1860MM	1	60 mm
65mm	95.3	322.3	38.9	6.6	1865MM	1	65 mm
70mm	105.9	331.7	38.9	7.5	1870MM	1	70 mm
75mm	110.7	341.4	38.9	7.9	1875MM	1	75 mm
80 mm	113.8	350.8	41.1	9.4	1880MM	1	80 mm



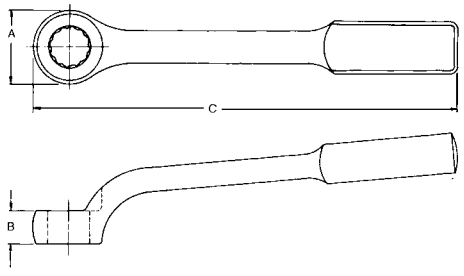


Roughneck "Hammer Wrench"

Straight Pattern — 12 Point Alloy Steel — Drop Forged

Striking Face Box Wrenches Offset Style

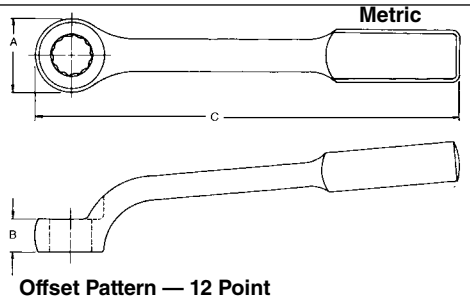




Offset Pattern — 12 Point

Black Industrial Finish Drop Forged

Wrench Opening	Diameter of Head A	Thickness of Head B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Wrench Opening
1	1 25/32	3/4	10	1.9	8807 B	1	1
1 1/16	1 25/32	3/4	10	1.9	8807	1	1 1/16
1 1/8	1 25/32	3/4	10	1.8	8807A	1	1 1/8
1 3/16	2 1/16	27/32	11	2.6	8808B	1	1 3/16
1 1/4	2 1/16	27/32	11	2.6	8808	1	1 1/4
1 5/16	2 1/16	27/32	11	2.6	8808A	1	1 5/16
1 3/8	2 25/64	15/16	11 1/2	3.4	8809B	1	1 3/8
1 7/16	2 25/64	15/16	11 1/2	3.4	8809	1	1 7/16
1 1/2	2 25/64	15/16	11 1/2	3.3	8809A	1	1 1/2
1 5/8	2 21/32	1 1/16	12	4.0	8810	1	1 5/8
1 11/16	2 21/32	1 1/16	12	4.0	8810A	1	1 11/16
1 3/4	2 21/32	1 1/16	12	3.9	8811B	1	1 3/4
1 13/16	3 3/32	1 3/16	13	5.4	8811	1	1 13/16
1 7/8	3 3/32	1 3/16	13	5.4	8811A	1	1 7/8
1 15/16	3 3/32	1 3/16	13	5.3	8812A	1	1 15/16
2	3 3/32	1 3/16	13	5.2	8812	1	2
2 1/8	3 17/32	1 5/16	13 1/2	6.9	8813B	1	2 1/8
2 3/16	3 17/32	1 5/16	13 1/2	6.9	8813	1	2 3/16
2 1/4	3 17/32	1 5/16	13 1/2	6.7	8813A	1	2 1/4
2 5/16	3 13/16	1 7/16	14	8.1	8814A	1	2 5/16
2 3/8	3 13/16	1 7/16	14	7.8	8814	1	2 3/8
2 1/2	3 13/16	1 7/16	14	7.8	8815B	1	2 1/2
2 9/16	4 7/32	1 5/8	15	10.6	8815	1	2 9/16
2 5/8	4 7/32	1 5/8	15	10.5	8815A	1	2 5/8
2 3/4	4 7/32	1 5/8	15	10.2	8816	1	2 3/4
2 7/8	4 25/32	1 7/8	16	14.0	8816C	1	2 7/8
2 15/16	4 25/32	1 7/8	16	13.8	8816B	1	2 15/16
3	4 25/32	1 7/8	16	13.7	8817	1	3
3 1/8	4 25/32	1 7/8	16	13.3	8817A	1	3 1/8
3 3/8	6 1/4	2 3/8	18	26.7	8818A	1	3 3/8
3 1/2	6 1/4	2 3/8	18	26.3	8818	1	3 1/2
3 3/4	6 1/4	2 3/8	18	25.3	8819B	1	3 3/4
3 7/8	6 1/4	2 3/8	18	24.8	8819	1	3 7/8
4 1/8	6 1/4	2 3/8	18	23.6	8819C	1	4 1/8
4 1/4	6 1/4	2 3/8	18	22.9	8819A	1	4 1/4



Metric

Offset Pattern — 12 Point

Black Industrial Finish Drop Forged

Wrench Opening	Diameter of Head A	Thickness of Head B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Wrench Opening
32 mm	2 1/16	27/32	11	2.6	8832MM	1	32 mm
36 mm	2 25/64	15/16	11 1/2	3.4	8836MM	1	36 mm
41 mm	2 21/32	1 1/16	12	4.0	8841MM	1	41 mm
46 mm	3 3/32	1 3/16	13	5.4	8846MM	1	46 mm
50 mm	3 3/32	1 3/16	13	5.2	8850MM	1	50 mm
55 mm	3 17/32	1 5/16	13 1/2	6.9	8855MM	1	55 mm
60 mm	3 13/16	1 7/16	14	7.8	8860MM	1	60 mm
65 mm	4 7/32	1 5/8	15	10.6	8865MM	1	65 mm
70 mm	4 7/32	1 5/8	15	10.2	8870MM	1	70 mm
75 mm	4 25/32	1 7/8	16	13.8	8875MM	1	75 mm
80 mm	4 25/32	1 7/8	16	13.3	8880MM	1	80 mm



Tube or Strike Free Wrench

Martin Part Number 24TWH	24" Handle	Martin Part Number 36TWH	36" Handle		
Fits 24" Handle		Fits 36"			
Martin Part Number	Opening	Martin Part Number	Opening	Martin Part Number	Opening
8707	1 1/16	8710A	1 11/16	8714	2 3/8
8707A	1 1/8	8711B	1 3/4	8715B	2 1/2
8708B	1 3/16	8711	1 13/16	8715	2 9/16
8708	1 1/4	8711A	1 7/8	8715A	2 5/8
8708A	1 5/16	8712A	1 15/16	8716	2 3/4
8709B	1 3/8	8712	2	8716C	2 7/8
8709	1 7/16	8713B	2 1/8	8716B	2 15/16
8709A	1 1/2	8713	2 3/16	8717	3
8710	1 5/8	8713A	2 1/4	8717A	3 1/8
		8714A	2 5/16		

Hex Key Sets

Hex Key Wrench Sets



Number	Approx. Wt. Lbs.	Quantity
13S	.75	1

Contains 13 keys, short arm series, each in a separate size-marked pocket, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.
Kit Bag C691



Number	Approx. Wt. Lbs.	Quantity
11SA	.6	1

11 keys, short arm series, inch sizes: .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.
Kit Bag C691



Number	Approx. Wt. Lbs.	Quantity
9L	.9	1

9 keys, 6" long arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 17/32, 1/4, 5/16, 3/8. Kit Bag C591



Number	Approx. Wt. Lbs.	Quantity
9S	.30	1

9 keys, short arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. Kit Bag C691



Number	Approx. Wt. Lbs.	Quantity
9SM	.58	1

9 metric keys, short arm series, mm sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10. Kit Bag C691



Number	Approx. Wt. Lbs.	Quantity
7S	.25	1

7 keys, short arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4. Kit Bag C791



Number	Approx. Wt. Lbs.	Quantity
11S	1.6	1

11 keys, short arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16. Kit Bag C691



Number	Approx. Wt. Lbs.	Quantity
7SM	.66	1

7 metric keys, short arm series, mm sizes: 2, 2.5, 3, 4, 5, 6, 8. Kit Bag C691

JacKey Wrench Sets



Number	Approx. Wt. Lbs.	Quantity
5LK	1.62	1

JacKey® Set with 5 long bits in inch sizes: 3/16, 7/32, 1/4, 5/16, 3/8. Bit lengths 3⅜"-5". Handle length 5¼".



Number	Approx. Wt. Lbs.	Quantity
9LK	1.06	1

JacKey® Set with 9 bits in inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16.



Number	Approx. Wt. Lbs.	Quantity
7LKM	.15	1

Metric JacKey® Set with 7 bits in mm sizes: 1.5, 2, 2.5, 3, 4, 5, 6. Bit lengths 38-50 mm; handle length 100 mm.



Number	Approx. Wt. Lbs.	Quantity
8SK	.3	1

JacKey® Set with 8 bits in inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32. Bit lengths 2"-2½". Handle length 3".



Number	Approx. Wt. Lbs.	Quantity
8LK	2.02	1

JacKey® Set with 8 long bits in inch sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Bit lengths 5"-5½". Handle length 6¼".



Number	Approx. Wt. Lbs.	Quantity
9SK	1.06	1

JacKey® Set with 9 bits in inch sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Bit lengths 3"-3½". Handle length 4".

Number	Approx. Wt. Lbs.	Quantity
8SC	.34	1

Handle Length: 3½".
Contains 8 bits in inch sizes:
.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32.



Number	Approx. Wt. Lbs.	Quantity
7SCM	.4	1

Handle Length: 3½".
Contains 7 bits in metric sizes:
1.5, 2, 2.5, 3, 4, 5, 6.

Number	Approx. Wt. Lbs.	Quantity
9SC	.34	1

Handle Length: 3½".
Contains 9 bits in inch sizes:
.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16.

Number	Approx. Wt. Lbs.	Quantity
9SAC	.6	1

Handle Length: 4¼".
Contains 9 bits in inch sizes:
5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.

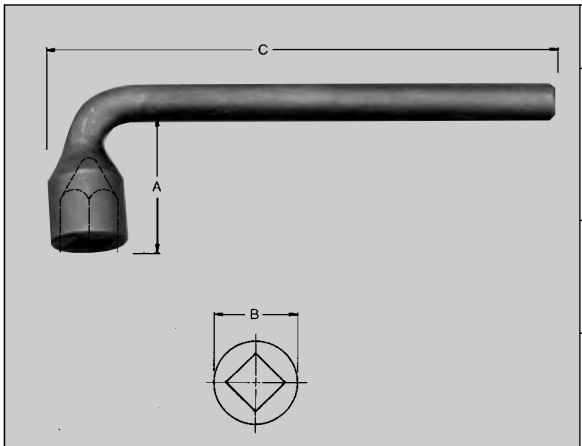
Number	Approx. Wt. Lbs.	Quantity
7SCT	.34	1

Handle Length: 4¼".
Contains 7 TORX® bits:
T-10, T-15, T-20, T-25, T-27, T-30, T-40.

Offset Socket Wrenches

Forged from High Grade Carbon Steel

Special Bends, Lengths Available as Made-to-Order



Square Opening

Square Opening 4-Point

Wrench Opening	Handle Offset in Clear from Face of Wrench	Diameter of Head	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Part No.		
1/4	13/16	1/2	3 3/8	.07	261J	6	1/4
5/16	1	5/8	3 7/8	.12	262H	6	5/16
3/8	1 1/8	11/16	4 5/16	.23	263H	6	3/8
7/16	1 1/8	7/8	5 7/8	.42	265H	6	7/16
1/2	1 1/4	1	6 1/4	.59	266H	6	1/2
9/16	1 7/16	1 1/8	6 3/4	.85	267H	6	9/16
5/8	1 9/16	1 1/4	7 1/2	.94	268H	6	5/8
3/4	1 5/8	1 3/8	8 3/8	1.2	269H	6	3/4
1 1/4	3	2 3/8	14 7/8	5.3	276H	1	1 1/4



Hexagon Opening

Hexagon Opening 6-Point

Wrench Opening	Handle Offset in Clear from Face of Wrench	Diameter of Head	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Part No.		
7/16	1 1/8	11/16	4 5/16	.21	263D	6	7/16
1/2	1 1/4	3/4	5 1/8	.33	264A	6	1/2
9/16	1 7/16	7/8	5 7/8	.46	265D	6	9/16
5/8	1 9/16	1	6 1/4	.53	266D	6	5/8
3/4	1 5/8	1 1/8	6 3/4	.79	267D	6	3/4
7/8	2 1/4	1 3/8	8 3/8	1.02	269A	6	7/8
15/16	2 1/4	1 1/2	9 1/8	1.7	270S	6	15/16
1 1/16	2 3/4	1 5/8	10	1.8	271A	1	1 1/16
1 1/8	2 3/4	1 5/8	10	1.9	271D	1	1 1/8
1 1/4	3	1 7/8	11 5/8	2.7	273A	1	1 1/4
1 7/16	3 1/4	2 1/8	13 1/4	4.1	275A	1	1 7/16
1 1/2	3 1/4	2 1/8	13 1/4	4.1	275D	1	1 1/2
1 5/8	3 1/2	2 3/8	14 7/8	5.8	276A	1	1 5/8

Tee-Handle Socket Wrenches

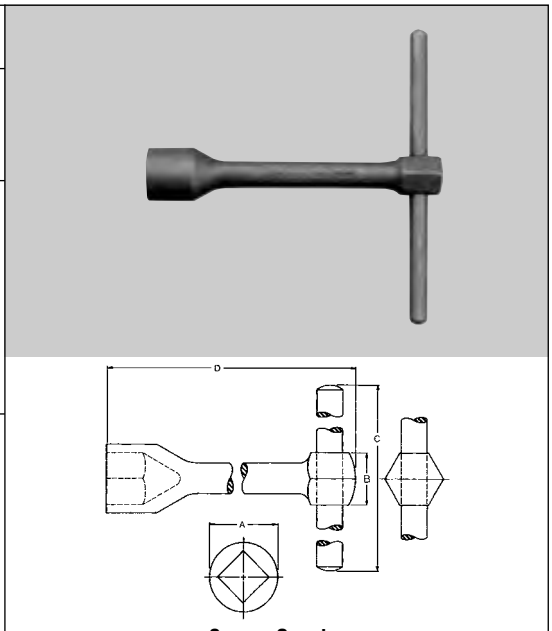
Upset Forged from Carbon Steel

Special Lengths Can Be Ordered in Quantities.

Pin Handle Can Be Removed, Enabling Use of a Wrench on Hex End of Shank.

Square Opening 4-Point

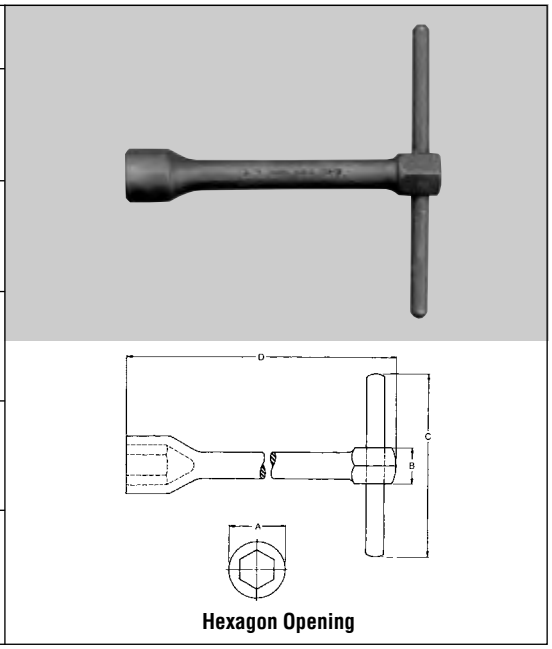
Wrench Opening	Diameter of Head	Size Hex on Handle End	Length of Pin Handle	Overall Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C	D		Part No.		
3/16	1/2	13/32	4 1/2	4 1/4	.12	961H	6	3/16
1/4	1/2	13/32	4 1/2	4 1/4	.12	961J	6	1/4
5/16	5/8	17/32	4 1/2	4 1/2	.17	962H	6	5/16
3/8	11/16	5/8	4 1/2	4 7/8	.29	963H	6	3/8
7/16	7/8	3/4	5 1/2	5 3/4	.57	965H	12	7/16
1/2	1	3/4	6 1/8	6 1/8	.68	966H	12	1/2
9/16	1 1/8	7/8	6 1/8	6 1/2	.94	967H	6	9/16
5/8	1 1/4	7/8	7	7	1.18	968H	6	5/8
3/4	1 3/8	7/8	7	7 3/8	1.20	969H	1	3/4
7/8	1 5/8	1 1/4	8 1/4	8 1/4	2.2	971H	1	7/8



Square Opening

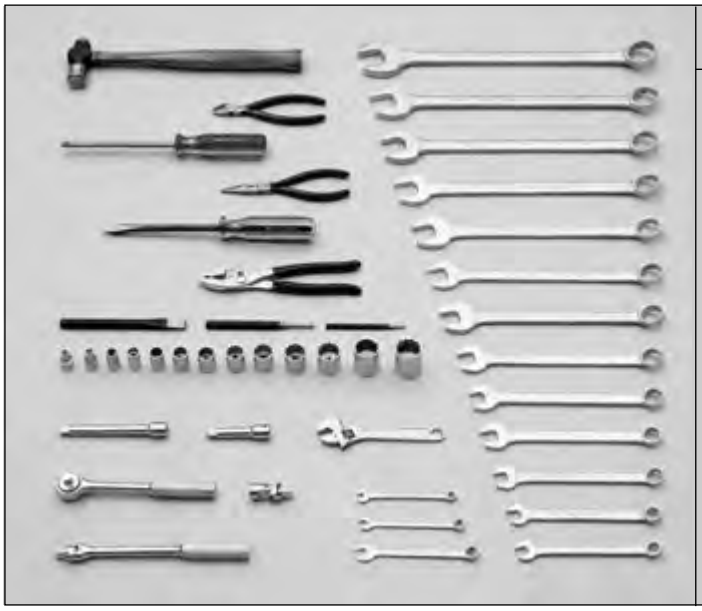
Hexagon Opening 6-Point

Wrench Opening	Diameter of Head	Size Hex on Handle End	Length of Pin Handle	Overall Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C	D		Part No.		
5/16	1/2	13/32	4 1/2	4 1/4	.12	961A	6	5/16
3/8	5/8	17/32	4 1/2	4 1/2	.17	962D	6	3/8
7/16	11/16	5/8	4 1/2	4 7/8	.28	963D	6	7/16
1/2	3/4	11/16	5 1/2	5 1/4	.40	964A	12	1/2
9/16	7/8	3/4	5 1/2	5 3/4	.56	965D	12	9/16
5/8	1	3/4	6 1/8	6 1/8	.68	966D	12	5/8
11/16	1 1/8	7/8	6 1/8	6 1/2	.94	967A	6	11/16
3/4	1 1/8	7/8	6 1/8	6 1/2	.91	967D	6	3/4
7/8	1 3/8	7/8	7	7 3/8	1.24	969A	1	7/8
15/16	1 1/2	1 1/16	7 7/8	7 7/8	1.8	970S	1	15/16
1	1 1/2	1 1/16	7 7/8	7 7/8	1.9	970D	1	1
1 1/16	1 5/8	1 1/4	8 1/4	8 1/4	2.3	971A	1	1 1/16
1 1/8	1 5/8	1 1/4	8 1/4	8 1/4	2.2	971D	1	1 1/8
1 1/4	1 7/8	1 1/4	8 1/4	9 1/8	3.0	973A	1	1 1/4
1 5/16	1 7/8	1 1/4	8 1/4	9 1/8	2.9	973B	1	1 5/16
1 1/2	2 1/8	1 7/16	8 1/4	10	3.8	975D	1	1 1/2
1 5/8	2 3/8	1 5/8	10 3/8	10 3/8	5.5	976A	1	1 5/8



Hexagon Opening

Mechanic's Starter Set – Industrial



TOOL BOX INCLUDED...BX21



M46K

ADJUSTABLE WRENCHES

6" A6

COMBINATION WRENCH SET

¼" 1158
5/16" 1159
⅜" 1160
7/16" 1161
½" 1162
9/16" 1163
⅝" 1164
11/16" 1165
¾" 1166
13/16" 1167A
⅞" 1167
Kit Bag C110
Kit Bag C55
15/16" 1168
1" 1170
1 1/16" 1171
1⅛" 1172
1¼" 1173

⅜" DRIVE SOCKET SET

¼" B1208
5/16" B1210
⅜" B1212
7/16" B1214
½" B1216
9/16" B1218
⅝" B1220
11/16" B1222
¾" B1224
13/16" B1226
⅞" B1228
15/16" B1230
1" B1232
7" Rev. Ratchet B52
3" Ext B103
6" Ext. B105
Universal B140A
Flex Handle B40A

HAMMERS

12 oz. Ball Peen 104G

CHISEL & PUNCH

3/16" Pin Punch P6
¼" Center Punch P38
½" Cold Chisel C16

PLIERS & SCREWDRIVERS

8" Combination Slip Joint Pliers P208
6" Diagonal Cutting Pliers P206
6½" Long Chain Nose Side Cutting Pliers P506
6" Square Blade Screwdriver SDS6
6" No. 3 Phillips Screwdriver SDP6

M46KM

ADJUSTABLE WRENCHES

6" A6

COMBINATION WRENCH SET

7 mm 1107MM
8 mm 1108MM
9 mm 1109MM
10 mm 1110MM
11 mm 1111MM
12 mm 1112MM
13 mm 1113MM
14 mm 1114MM
15 mm 1115MM
16 mm 1116MM
17 mm 1117MM
Kit Bag C110
Kit Bag C55
24 mm 1124MM
26 mm 1126MM
28 mm 1128MM
29 mm 1129MM
30 mm 1130MM

⅜" DRIVE SOCKET SET

8 mm BM1208
9 mm BM1209
10 mm BM1210
11 mm BM1211
12 mm BM1212
13 mm BM1213
14 mm BM1214
15 mm BM1215
16 mm BM1216
17 mm BM1217
18 mm BM1218
19 mm BM1219
Adaptor BS130
7" Rev. Ratchet B52
3" Ext. B103
6" Ext. B105
Universal B140A
Flex Handle B40A

HAMMERS

12 oz. Ball Peen 104G

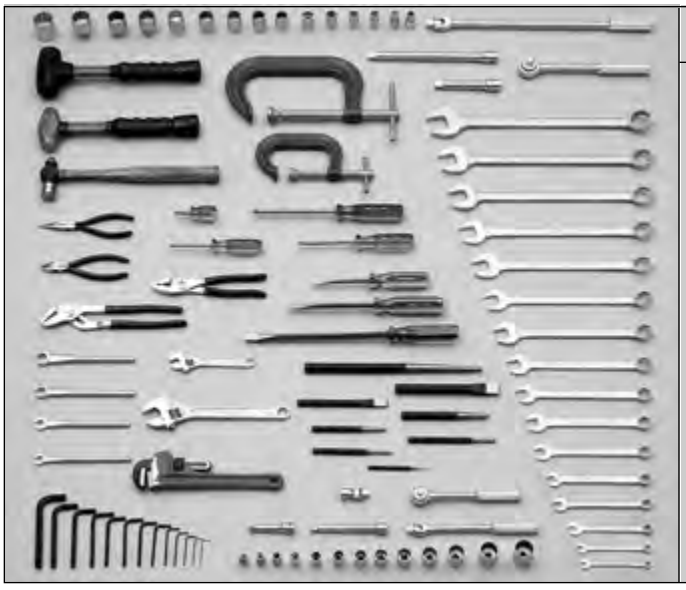
CHISEL & PUNCH

3/16" Pin Punch P6
¼" Center Punch P38
½" Cold Chisel C16

PLIERS & SCREWDRIVERS

8" Combination Slip Joint Pliers P208
6" Diagonal Cutting Pliers P206
6½" Long Chain Nose Side Cutting Pliers P506
6" Square Blade Screwdriver SDS6
6" No. 3 Phillips Screwdriver SDP6

Mechanic's Set – Industrial





M100K

⅜" DRIVE SOCKET SET

¼"	B1208
5/16"	B1210
⅜"	B1212
7/16"	B1214
½"	B1216
9/16"	B1218
⅝"	B1220
11/16"	B1222
¾"	B1224
13/16"	B1226
⅞"	B1228
15/16"	B1230
1"	B1232
3" Ext	B103
6" Ext.	B105
Flex Handle	B40A
Universal Joint	B140A
7" Rev. Ratchet	B52

½" DRIVE SOCKET SET

⅜"	ST1212
7/16"	ST1214
½"	ST1216
9/16"	ST1218
⅝"	ST1220
11/16"	ST1222
¾"	ST1224
13/16"	ST1226
⅞"	ST1228
1"	ST1232
1 1/16"	ST1234
1⅛"	ST1236
1 3/16"	ST1238
1¼"	ST1240
5" Ext	S110P
10" Ext.	S115P
Flex Handle	SF41
Rev. Ratchet	SF51

COMBINATION WRENCHES

¼"	1158
5/16"	1159
⅜"	1160
7/16"	1161
½"	1162
9/16"	1163
⅝"	1164
11/16"	1165
¾"	1166
13/16"	1167A
⅞"	1167
Kit Bag	C110
5/16"	1168
1"	1170
1 1/16"	1171
1⅛"	1172
1¼"	1173
Kit Bag	C55

FLARE NUT WRENCHES

⅜"	4112
7/16"	4114
½"	4116
9/16"	4118

C-CLAMPS

0-3"	CC403
0-6 1/16"	CC406

HAMMERS

12 oz.	104G
1.50 lbs.	HSB15
1.25 lbs.	HPD1

CHISEL & PUNCH

3/16" Pin	P6
3/16" Center	P40
½" Cold	C16
¼" Pin	P8
¼" Center	P42
¾" Cold	C24
1/16" Pin	P2
¼" Taper	P27

SCREWDRIVERS & PLIERS

8" Combo	P208
6" Diagonal	P206
6½" Chain Nose	P506
10" Groove	P510
4" Square Blade	SDS4
6" Square Blade	SDS6
10" Square Blade	SDS10
3" Phillips No. 1	SDP3
4" Phillips No. 2	SDP4
6" Phillips No. 3	SDP6
1½" Stubby No. 2	SDP1

HEX KEY WRENCH SET

13 pcs. Short Arm Series ... 13S

ADJUSTABLE & PIPE WRENCHES

6"	A6
10"	A10
10"	PW10

M100KM

⅜" DRIVE SOCKET SET

8 mm	BM1208
9 mm	BM1209
10 mm	BM1210
11 mm	BM1211
12 mm	BM1212
13 mm	BM1213
14 mm	BM1214
15 mm	BM1215
16 mm	BM1216
17mm	BM1217
18 mm	BM1218
19 mm	BM1219
Adaptor	BS130
3" Ext	B103
5" Ext.	B105
Flex Handle	B40A
Universal Joint	B140A
7" Rev. Ratchet	B52

½" DRIVE SOCKET SET

10 mm	STM1210
11 mm	STM1211
12 mm	STM1212
13 mm	STM1213
14 mm	STM1215
17 mm	STM1217
19 mm	STM1219
22 mm	STM1222
23 mm	STM1223
24 mm	STM1224
25 mm	STM1225
26 mm	STM1226
27 mm	STM1227
30 mm	STM1230
32 mm	STM1232
5" Ext	S110P
10" Ext.	S115P
Flex Handle	SF41
Rev. Ratchet	SF51

COMBINATION WRENCHES

7 mm	1107MM
8 mm	1108MM
9 mm	1109MM
10 mm	1110MM
11 mm	1111MM
12 mm	1112MM
13 mm	1113MM
14 mm	1114MM
15 mm	1115MM
16 mm	1116MM
17 mm	1117MM
Kit Bag	C110
24 mm	1124MM
26 mm	1126MM
28 mm	1128MM
29 mm	1129MM
30 mm	1130MM
Kit Bag	C55

FLARE NUT WRENCHES

⅜"	4112
7/16"	4114
½"	4116
9/16"	4118

C-CLAMPS

0-3"	CC403
0-6 1/16"	CC406

HAMMERS

12 oz.	104G
1.50 lbs.	HSB15
1.25 lbs.	HPD1

CHISEL & PUNCH

3/16" Pin	P6
3/16" Center	P40
½" Cold	C16
¼" Pin	P8
¼" Center	P42
¾" Cold	C24
1/16" Pin	P2
¼" Taper	P27

PLIERS & SCREWDRIVERS

8" Combo	P208
6" Diagonal	P206
6½" Chain Nose	P506
10" Groove	P510
4" Square Blade	SDS4
6" Square Blade	SDS6
10" Square Blade	SDS10
3" Phillips No. 1	SDP3
4" Phillips No. 2	SDP4
6" Phillips No. 3	SDP6
1½" Stubby No. 2	SDP1

HEX KEY WRENCH SET

13 pcs. Short Arm Series ... 13S

ADJUSTABLE & PIPE WRENCHES

6"	A6
10"	A10
10"	PW10

¼" and ⅜" Drive Master Sets



MB20K

¼" DRIVE SOCKET SET
M606 ..... 3/16" 6 pt. Std. Skt.
M607 ..... 7/32" 6 pt. Std. Skt.
M608 ..... ¼" 6 pt. Std. Skt.
M609 ..... 9/32" 6 pt. Std. Skt.
M610..... 5/16" 6 pt. Std. Skt.
M611..... 11/32" 6 pt. Std. Skt.

⅜" DRIVE SOCKET SET
B612 ..... ⅜" 6 pt. Std. Skt.
B614 ..... 7/16" 6 pt. Std. Skt.
B616 ..... ½" 6 pt. Std. Skt.
B618 ..... 9/16" 6 pt. Std. Skt.
B620 ..... ⅝" 6 pt. Std. Skt.
B622 ..... 11/16" 6 pt. Std. Skt.
B624 ..... ¾" 6 pt. Std. Skt.
B626 ..... 13/16" 6 pt. Std. Skt.

M106..... Spinner Handle

B52 ..... 8" Reversible Ratchet
B103 ..... 3" Extension
B105 ..... 6" Extension
BD620P ..... ⅝" Spark Plug Skt.
BS129..... Adaptor ⅜"F to ¼"M
98 ..... METAL BOX

METRIC



MBM20K

¼" DRIVE SOCKET SET
MM605.... 5 mm 6 Pt. Std. Skt.
MM606.... 6 mm 6 Pt. Std. Skt.
MM607.... 7 mm 6 Pt. Std. Skt.
MM608.... 8 mm 6 Pt. Std. Skt.
MM609.... 9 mm 6 Pt. Std. Skt.
MM610.... 10 mm 6 Pt. Std. Skt.

⅜" DRIVE SOCKET SET
BM612 .... 12 mm 6 Pt. Std. Skt.
BM613 .... 13 mm 6 Pt. Std. Skt.
BM614 .... 14 mm 6 Pt. Std. Skt.
BM615 .... 15 mm 6 Pt. Std. Skt.
BM616 .... 16 mm 6 Pt. Std. Skt.
BM617 .... 17 mm 6 Pt. Std. Skt.
BM618 .... 18 mm 6 Pt. Std. Skt.
BM619 .... 19 mm 6 Pt. Std. Skt.

M106..... Spinner Handle

B52 ..... 8" Reversible Ratchet
B103 ..... 3" Extension
B105 ..... 6" Extension
BD620P ..... ⅝" Spark Plug Skt.
BS129..... Adaptor ⅜"F to ¼"M
98 ..... METAL BOX



MB28K

¼" DRIVE SOCKET SET
M608..... ¼" 6 pt. Std. Skt.
M609..... 9/32" 6 pt. Std. Skt.
M610..... 5/16" 6 pt. Std. Skt.
M611 ..... 11/32" 6 pt. Std. Skt.
M612..... ⅜" 6 pt. Std. Skt.

⅜" DRIVE SOCKET SET
B614 ..... 7/16" 6 pt. Std. Skt.
B616 ..... ½" 6 pt. Std. Skt.
B618 ..... 9/16" 6 pt. Std. Skt.
B620 ..... ⅝" 6 pt. Std. Skt.
B622 ..... 11/16" 6 pt. Std. Skt.
B624 ..... ¾" 6 pt. Std. Skt.
BM612 .... 12 mm 6 Pt. Std. Skt.
BM613 .... 13 mm 6 Pt. Std. Skt.
BM614 .... 14 mm 6 Pt. Std. Skt.

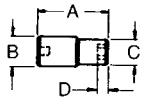
MM607.... 7 mm 6 Pt. Std. Skt.
MM608.... 8 mm 6 Pt. Std. Skt.
MM609.... 9 mm 6 Pt. Std. Skt.
MM610.... 10 mm 6 Pt. Std. Skt.
MM611 .... 11 mm 6 Pt. Std. Skt.
M106..... Spinner Handle

BM615 .... 15 mm 6 Pt. Std. Skt.
BM617 .... 17 mm 6 Pt. Std. Skt.
BM619 .... 19 mm 6 Pt. Std. Skt.
B52 ..... 8" Reversible Ratchet
B103 ..... 3" Extension
B105 ..... 6" Extension
BD620P .. ⅝" Spark Plug Skt.
BS129..... Adaptor ⅜"F to ¼"M
98..... METAL BOX

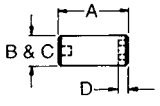
¼" Drive Sockets & Attachments – Chrome

Type	Item	Description	Part No.	Std. Pkg. Qty.
Ratchet		Chrome .43 tooth. **Head dia. 1". Length 5½". Weight .40 lbs.**	M52	6
Ratchet Replacement Head		Preassembled Ratchet Replacement Head. **Weight .19 lbs.**	M52RD	1
Extension Bar		3" Extension Bar. **Weight .17 lbs.**	M103	6
Spinner		Spinner Handle. **Length 6".**	M106	6





TYPE I



TYPE II



¼" Square Drive 12 Point Standard

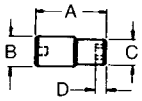
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
3/16	I	13/16	31/64	5/16	7/32	.01	M1206	6	3/16
7/32	I	13/16	31/64	23/64	15/64	.01	M1207	6	7/32
1/4	I	13/16	31/64	25/64	1/4	.01	M1208	6	1/4
9/32	I	13/16	31/64	7/16	19/64	.02	M1209	6	9/32
5/16	II	13/16	31/64	31/64	21/64	.02	M1210	6	5/16
11/32	II	13/16	33/64	33/64	21/64	.03	M1211	6	11/32
3/8	II	13/16	9/16	9/16	5/16	.03	M1212	6	3/8
7/16	II	13/16	5/8	5/8	21/64	.04	M1214	6	7/16
1/2	II	13/16	45/64	45/64	13/32	.04	M1216	6	1/2

¼" Square Drive 6 Point Standard

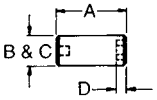
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
5/32	I	13/16	31/64	9/32	7/32	.01	M605	6	5/32
3/16	I	13/16	31/64	5/16	7/32	.01	M606	6	3/16
7/32	I	13/16	31/64	23/64	15/64	.01	M607	6	7/32
1/4	I	13/16	31/64	25/64	1/4	.01	M608	6	1/4
9/32	I	13/16	31/64	7/16	19/64	.02	M609	6	9/32
5/16	II	13/16	31/64	31/64	21/64	.02	M610	6	5/16
11/32	II	13/16	33/64	33/64	21/64	.03	M611	6	11/32
3/8	II	13/16	9/16	9/16	5/16	.03	M612	6	3/8
7/16	II	13/16	5/8	5/8	21/64	.04	M614	6	7/16
1/2	II	13/16	45/64	45/64	13/32	.04	M616	6	1/2

¼" Drive Sockets & Sets – Chrome





TYPE I



TYPE II



¼" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
3/16	I	1 61/64	15/32	5/16	13/64	.05	MD606	6	3/16
7/32	I	1 61/64	15/32	23/64	15/64	.06	MD607	6	7/32
1/4	I	1 61/64	15/32	25/64	11/32	.06	MD608	6	1/4
9/32	I	1 61/64	15/32	7/16	11/32	.06	MD609	6	9/32
5/16	II	1 61/64	15/32	15/32	13/32	.06	MD610	6	5/16
11/32	II	1 61/64	33/64	33/64	35/64	.06	MD611	6	11/32
3/8	II	1 61/64	37/64	37/64	35/64	.09	MD612	6	3/8
7/16	II	1 61/64	5/8	5/8	35/64	.09	MD614	6	7/16
1/2	II	1 61/64	45/64	45/64	35/64	.11	MD616	6	1/2

¼" Square Drive 6 Point Standard — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
4 mm	I	21.1 mm	12.1 mm	7.1 mm	5.3 mm	.05	MM604	6	4 mm
5 mm	I	21.1 mm	12.1 mm	8.6 mm	5.1 mm	.05	MM605	6	5 mm
6 mm	I	21.1 mm	12.1 mm	10.2 mm	6.6 mm	.05	MM606	6	6 mm
7 mm	I	21.1 mm	12.1 mm	11.2 mm	7.6 mm	.05	MM607	6	7 mm
8 mm	II	21.1 mm	12.1 mm	12.2 mm	8.4 mm	.05	MM608	6	8 mm
9 mm	II	21.1 mm	14.2 mm	14.2 mm	8.4 mm	.06	MM609	6	9 mm
10 mm	II	21.1 mm	14.9 mm	14.9 mm	8.4 mm	.06	MM610	6	10 mm
11 mm	II	21.1 mm	16.0 mm	16.0 mm	8.4 mm	.06	MM611	6	11 mm
12 mm	II	21.1 mm	17.0 mm	17.0 mm	9.1 mm	.07	MM612	6	12 mm
13 mm	II	21.1 mm	17.8 mm	17.8 mm	10.2 mm	.08	MM613	6	13 mm

M12K

M606..... 3/16" 6 Pt. Std. Skt.
M607..... 7/32" 6 Pt. Std. Skt.
M608..... 1/4" 6 Pt. Std. Skt.
M609..... 9/32" 6 Pt. Std. Skt.
M610..... 5/16" 6 Pt. Std. Skt.
M611..... 11/32" 6 Pt. Std. Skt.
M612.....3/8" 6 Pt. Std. Skt.
M614.....7/16" 6 Pt. Std. Skt.
M616.....1/2" 6 Pt. Std. Skt.
M52.....RATCHET
M103.....3" EXTENSION BAR
M106.....6" SPINNER
91.....METAL BOX



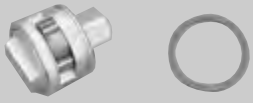
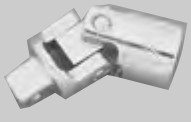
M12KM

METRIC

MM604 .....4 mm 6 Pt. Std. Skt.
MM605 .....5 mm 6 Pt. Std. Skt.
MM606 .....6 mm 6 Pt. Std. Skt.
MM607 .....7 mm 6 Pt. Std. Skt.
MM608 .....8 mm 6 Pt. Std. Skt.
MM609 .....9 mm 6 Pt. Std. Skt.
MM610 .....10 mm 6 Pt. Std. Skt.
MM612 .....12 mm 6 Pt. Std. Skt.
MM613 .....13 mm 6 Pt. Std. Skt.
M52 .....RATCHET
M103 .....3" EXTENSION BAR
M106 .....6" SPINNER
91 .....METAL BOX

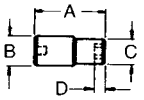


⅜" Drive Attachments – Chrome

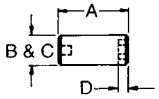
Type		Description	Part No.	Std. Pkg. Qty.
FLEXIBLE HANDLE		Chrome Knurled Grip. **Length 7 13/16". Weight .59 lbs.**	B40A	6
REVERSIBLE RATCHET		Chrome. 41 tooth. **Head dia. 1¼". Length 8". Weight .69 lbs.**	B52	6
		Preassembled Ratchet Replacement Head. **Weight .19 lbs.**	B52RD	1
FLEXIBLE HEAD RATCHET		Flex Head Reversible Ratchet. Chrome. **Length 10½ " .70 lbs.**	B54	6
		Preassembled Flexible Ratchet Replacement Head. **.19 lbs.**	B54RD	1
EXTENSIONS		Chrome. **Length 3". Weight .17 lbs.**	B103	6
		Chrome. **Length 6". Weight .20 lbs.**	B105	6
		Chrome. **Length 12". Weight .42 lbs.**	B112	6
UNIVERSAL JOINT		Chrome. **Weight .13 lbs.**	B140A	6
ADAPTORS		Chrome. ⅜"**F to** ¼"**M. Weight .06 lbs.**	BS129	6
		Chrome. ⅜"**F to** ½"**M. Weight .09 lbs.**	BS130	6
SPEEDER		Chrome. Revolving Grip. **Length 16". Weight 1.1 lbs.**	B15	6

⅜" Drive Socket Wrenches – Chrome





TYPE I



TYPE II



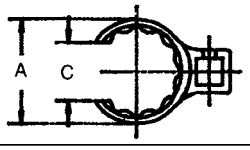
⅜" Square Drive 12 Point Standard

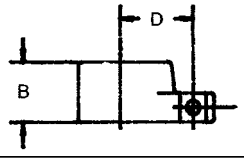
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
¼	I	1⅛	⅝	25/64	⅛	.04	B1208	6	¼
5/16	I	1⅛	⅝	15/32	9/64	.05	B1210	6	5/16
⅜	I	1⅛	⅝	35/64	5/32	.05	B1212	6	⅜
7/16	II	1⅛	—	⅝	7/32	.05	B1214	6	7/16
½	II	1⅛	—	23/32	17/64	.06	B1216	6	½
9/16	II	1⅛	—	25/32	21/64	.08	B1218	6	9/16
⅝	II	1⅛	—	⅞	⅜	.10	B1220	6	⅝
11/16	II	1⅛	—	15/16	⅜	.12	B1222	6	11/16
¾	II	1⅛	—	1	7/16	.14	B1224	6	¾
13/16	II	1¾16	—	1 1/16	29/64	.15	B1226	6	13/16
⅞	II	1¼	—	1 9/64	½	.18	B1228	6	⅞
15/16	II	1 9/16	—	1¼	35/64	.18	B1230	6	15/16
1	II	1⅝	—	1 5/16	35/64	.19	B1232	6	1

⅜" Square Drive 12 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
⅜	I	2 7/32	⅝	35/64	5/32	.10	BD1212	6	⅜
7/16	II	2 7/32	—	⅝	7/32	.10	BD1214	6	7/16
½	II	2 7/32	—	23/32	17/64	.15	BD1216	6	½
9/16	II	2 7/32	—	25/32	21/64	.19	BD1218	6	9/16
⅝	II	2 7/32	—	⅞	⅜	.23	BD1220	6	⅝
11/16	II	2½	—	59/64	⅜	.28	BD1222	6	11/16
¾	II	2½	—	63/64	7/16	.26	BD1224	6	¾
13/16	II	2 25/32	—	1 1/16	29/64	.48	BD1226	6	13/16
⅞	II	2⅞	—	1 5/32	½	.39	BD1228	6	⅞





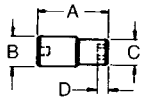


⅜" Drive Crowfoot Wrench — Flare Nut 12 Pt.

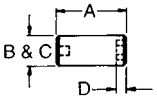
Opening	Diameter of Head	Thickness of Head	Width of Slot	Length of Centers	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Opening
	A	B	C	D		Part No.	Part No.		
5/8	31/32	11/16	7/16	47/64	.06	BC20	BLKBC20	6	5/8
11/16	1 1/16	11/16	31/64	25/32	.06	BC22	BLKBC22	6	11/16
¾	1 5/32	23/32	17/32	53/64	.06	BC24	BLKBC24	6	¾
13/16	1 7/32	23/32	9/16	⅞	.06	BC26	BLKBC26	6	13/16
⅞	1⅝	¾	39/64	59/64	.06	BC28	BLKBC28	6	⅞
15/16	1 13/32	¾	21/32	31/32	.06	BC30	BLKBC30	6	15/16
1	1 31/64	25/32	45/64	1 1/64	.13	BC32	BLKBC32	6	1
1 1/16	1 9/16	25/32	51/64	1 1/16	.13	BC34	BLKBC34	6	1 1/16

⅜" Drive Socket Wrenches – Chrome





TYPE I



TYPE II

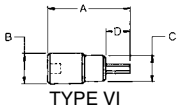


⅜" Square Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty.	Opening
		A	B	C	D		Part No.		
¼	I	1⅛	⅝	25/64	⅛	.04	B608	6	¼
5/16	I	1⅛	⅝	15/32	9/64	.04	B610	6	5/16
⅜	I	1⅛	⅝	35/64	5/32	.05	B612	6	⅜
7/16	II	1⅛	—	⅝	7/32	.05	B614	6	7/16
½	II	1⅛	—	23/32	17/64	.07	B616	6	½
9/16	II	1⅛	—	25/32	21/64	.08	B618	6	9/16
⅝	II	1⅛	—	⅞	⅜	.10	B620	6	⅝
11/16	II	1⅛	—	15/16	⅜	.13	B622	6	11/16
¾	II	1⅛	—	1	7/16	.14	B624	6	¾
13/16	II	1 3/16	—	1 1/16	29/64	.17	B626	6	13/16
⅞	II	1¼	—	1 9/64	½	.19	B628	6	⅞
15/16	II	1 9/16	—	1¼	35/64	.29	B630	6	15/16
1	II	1⅝	—	1 5/16	35/64	.33	B632	6	1

⅜" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty.	Opening
		A	B	C	D		Part No.		
¼	I	2 7/32	⅝	⅜	5/32	.10	BD608	6	¼
5/16	I	2 7/32	⅝	7/16	5/32	.11	BD610	6	5/16
⅜	I	2 7/32	⅝	35/64	5/32	.12	BD612	6	⅜
7/16	II	2 7/32	—	⅝	7/32	.12	BD614	6	7/16
½	II	2 7/32	—	23/32	17/64	.16	BD616	6	½
9/16	I	2¼	55/64	13/16	11/32	.25	BD618	6	9/16
⅝	I	2¼	59/64	57/64	⅜	.30	BD620	6	⅝
11/16	II	2 5/16	—	61/64	⅜	.32	BD622	6	11/16
¾	II	2 5/16	—	1 3/64	7/16	.37	BD624	6	¾
13/16	II	2 25/32	—	1 1/16	29/64	.32	BD626	6	13/16
⅞	II	2⅞	—	1 5/32	½	.39	BD628	6	⅞
15/16	II	3 3/64	—	1¼	35/64	.41	BD630	6	15/16
1	II	3 3/64	—	1 5/16	35/64	.41	BD632	6	1



TYPE VI

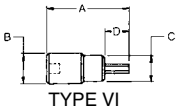


⅜" Drive Hex Bit Sockets

Bit Size	Type	Length	Drive End	Bit End	Bit Length	Wt. Ea. Lbs.	Chrome	Replacement Hex Bits	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Part No.			
⅛	I	2.66	.69	.59	1.59	.06	BA4	BA4B	6	⅛
5/32	I	2.66	.69	.59	1.59	.06	BA5	BA5B	6	5/32
3/16	I	2.66	.69	.59	1.59	.06	BA6	BA6B	6	3/16
7/32	I	2.66	.69	.59	1.59	.07	BA7	BA7B	6	7/32
¼	VI	2.66	.69	.59	1.59	.08	BA8	BA8B	6	¼
5/16	VI	2.88	.69	.59	1.81	.10	BA10	BA10B	6	5/16
⅜	VI	2.94	.75	.75	1.75	.13	BA12	BA12B	6	⅜

⅜" Drive Socket Wrenches – Chrome



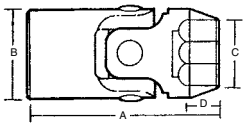


TYPE VI

⅜" Drive Torx Bit Sockets

Bit Size	Type	Length	Drive End	Bit End	Bit Length	Wt. Ea. Lbs.	Chrome	Replacement Hex Bits	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Part No.			
T10	VI	1.65	0.69	.59	0.59	0.05	BAT10	BAT10B	6	T10
T15	VI	1.65	0.69	.59	0.59	0.1	BAT15	BAT15B	6	T15
T20	VI	1.65	0.69	.59	0.59	0.1	BAT20	BAT20B	6	T20
T25	VI	1.65	0.69	.59	0.59	0.1	BAT25	BAT25B	6	T25
T27	VI	1.65	0.69	.59	0.59	0.1	BAT27	BAT27B	6	T27
T30	VI	1.65	0.69	.59	0.59	0.1	BAT30	BAT30B	6	T30
T40	VI	1.83	0.69	.59	0.77	0.1	BAT40	BAT40B	6	T40
T45	VI	1.83	0.69	.59	0.77	0.1	BAT45	BAT45B	6	T45
T50	VI	1.83	0.69	.59	0.77	0.1	BAT50	BAT50B	6	T50
T55	VI	2.06	0.75	.75	0.89	0.15	BAT55	BAT55B	6	T55

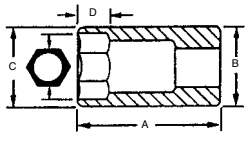




⅜" Square Drive 6 Point Flex Socket

Opening	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
	A	B	C	D		Part No.		
⅜	1 49/64	¾	37/64	15/64	.09	BU612	6	⅜
7/16	1 55/64	¾	43/64	5/16	.09	BU614	6	7/16
½	1 57/64	¾	¾	23/64	.13	BU616	6	½
9/16	1 57/64	¾	13/16	25/64	.13	BU618	6	9/16
⅝	1 15/64	¾	⅞	7/16	.14	BU620	6	⅝
11/16	1 31/32	¾	31/32	15/32	.18	BU622	6	11/16
¾	2⅛	¾	1 3/64	33/64	.19	BU624	6	¾





⅜" Square Drive Spark Plug Sockets — Chrome

Opening	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
	A	B	C	D		Part No.		
⅝	2½	¾	55/64	51/64	.28	BD620P	6	⅝
13/16	2¾	⅞	1 5/64	51/64	.35	BD626P	6	13/16

⅜" Drive Sockets & Sets – Chrome

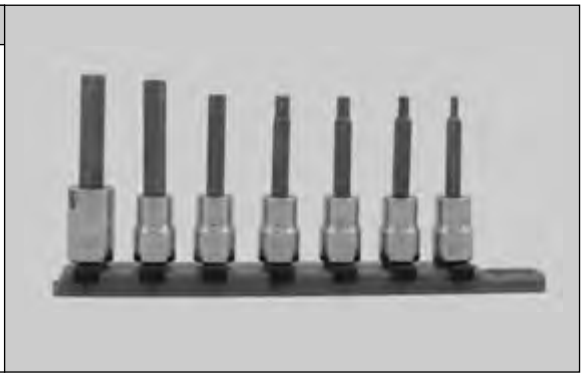
B7K

BU612..... ⅜" 6 Pt. Flex Skt.
BU614..... 7/16" 6 Pt. Flex Skt.
BU616..... ½" 6 Pt. Flex Skt.
BU618..... 9/16" 6 Pt. Flex Skt.
BU620 ..... ⅝" 6 Pt. Flex Skt.
BU622 ..... 11/16" 6 Pt. Flex Skt.
BU624 ..... ¾" 6 Pt. Flex Skt.
213R..... TWIST LOCK CLIP RAIL



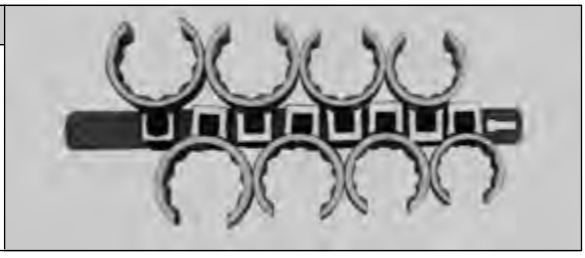
BA7K

BA4..... ⅛" Hex Bit Skt. ⅜" DR
BA5..... 5/32" Hex Bit Skt. ⅜" DR
BA6..... 3/16" Hex Bit Skt. ⅜" DR
BA7..... 7/32" Hex Bit Skt. ⅜" DR
BA8..... ¼" Hex Bit Skt. ⅜" DR
BA10..... 5/16" Hex Bit Skt. ⅜" DR
BA12..... ⅜" Hex Bit Skt. ⅜" DR
208R..... TWIST LOCK CLIP RAIL



BC8K

BC20 ..... ⅝" 12 Pt. Crowfoot
BC22 ..... 11/16" 12 Pt. Crowfoot
BC24 ..... ¾" 12 Pt. Crowfoot
BC26 ..... 13/16" 12 Pt. Crowfoot
BC28 ..... ⅞" 12 Pt. Crowfoot
BC30 ..... 15/16" 12 Pt. Crowfoot
BC32 ..... 1" 12 Pt. Crowfoot
BC34 ..... 1 1/16" 12 Pt. Crowfoot
208R..... TWIST LOCK CLIP RAIL



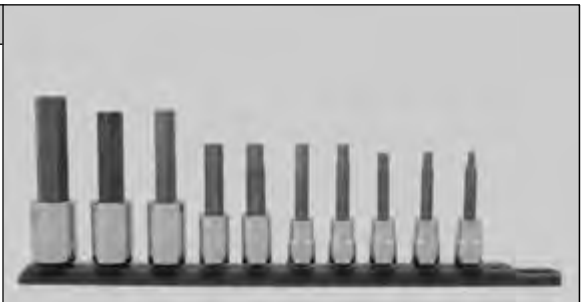
B9K

BD1212..... ⅜" 12 Pt. Deep Skt.
BD1214..... 7/16" 12 Pt. Deep Skt.
BD1216..... ½" 12 Pt. Deep Skt.
BD1218..... 9/16" 12 Pt. Deep Skt.
BD1220..... ⅝" 12 Pt. Deep Skt.
BD1222..... 11/16" 12 Pt. Deep Skt.
BD1224..... ¾" 12 Pt. Deep Skt.
BD1226..... 13/16" 12 Pt. Deep Skt.
BD1228..... ⅞" 12 Pt. Deep Skt.
213R..... TWIST LOCK CLIP RAIL

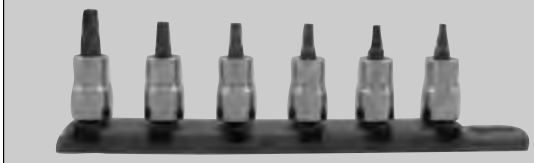


BC10K

BA4..... ⅛" Hex Bit Skt. ⅜" Dr.
BA5..... 5/32" Hex Bit Skt. ⅜" Dr.
BA6..... 3/16" Hex Bit Skt. ⅜" Dr.
BA7..... 7/32" Hex Bit Skt. ⅜" Dr.
BA8..... ¼" Hex Bit Skt. ⅜" Dr.
BA10..... 5/16" Hex Bit Skt. ⅜" Dr.
BA12 ..... ⅜" Hex Bit Skt. ⅜" Dr.
SA16 ..... ½" Hex Bit Skt. ½" Dr.
SA18 ..... 9/16" Hex Bit Skt. ½" Dr.
SA20 ..... ⅝" Hex Bit Skt. ½" Dr.
213R ..... TWIST LOCK CLIP RAIL



3/8" Drive Sockets & Sets – Chrome



BAT6K

BAT15 ..... T15 Torx®
BAT20 ..... T20 Torx®
BAT25 ..... T25 Torx®
BAT27 ..... T27 Torx®
BAT30 ..... T30 Torx®
BAT40 ..... T40 Torx®
208R ..... TWIST LOCK CLIP RAIL



BAT8K

BAT15 ..... T15 Torx®
BAT20 ..... T20 Torx®
BAT25 ..... T25 Torx®
BAT27 ..... T27 Torx®
BAT30 ..... T30 Torx®
BAT40 ..... T40 Torx®
BAT45 ..... T45 Torx®
BAT50 ..... T50 Torx®
208R ..... TWIST LOCK CLIP RAIL



BAT10K

BAT10 ..... T10 Torx®
BAT15 ..... T15 Torx®
BAT20 ..... T20 Torx®
BAT25 ..... T25 Torx®
BAT27 ..... T27 Torx®
BAT40 ..... T40 Torx®
BAT45 ..... T45 Torx®
BAT50 ..... T50 Torx®
BAT55 ..... T55 Torx®
208R ..... TWIST LOCK CLIP RAIL

3/8" Drive Sockets & Sets – Chrome

BD9K

BD612..... 3/8" 6 Pt. Deep Skt.
BD614..... 7/16" 6 Pt. Deep Skt.
BD616..... 1/2" 6 Pt. Deep Skt.
BD618..... 9/16" 6 Pt. Deep Skt.
BD620 ..... 5/8" 6 Pt. Deep Skt.
BD622 ..... 11/16" 6 Pt. Deep Skt.
BD624 ..... 3/4" 6 Pt. Deep Skt.
BD626 ..... 13/16" 6 Pt. Deep Skt.
BD628 ..... 7/8" 6 Pt. Deep Skt.
213R..... TWIST LOCK CLIP RAIL



B10K

B1210 ..... 5/16" 12 Pt. Std. Skt.
B1212 ..... 3/8" 12 Pt. Std. Skt.
B1214 ..... 7/16" 12 Pt. Std. Skt.
B1216 ..... 1/2" 12 Pt. Std. Skt.
B1218 ..... 9/16" 12 Pt. Std. Skt.
B1220 ..... 5/8" 12 Pt. Std. Skt.
B1222 ..... 11/16" 12 Pt. Std. Skt.
B1224 ..... 3/4" 12 Pt. Std. Skt.
B1226 ..... 13/16" 12 Pt. Std. Skt.
B1228 ..... 7/8" 12 Pt. Std. Skt.
213R..... TWIST LOCK CLIP RAIL



BD10K

B610 ..... 5/16" 6 Pt. Std. Skt.
B612 ..... 3/8" 6 Pt. Std. Skt.
B614 ..... 7/16" 6 Pt. Std. Skt.
B616 ..... 1/2" 6 Pt. Std. Skt.
B618 ..... 9/16" 6 Pt. Std. Skt.
B620 ..... 5/8" 6 Pt. Std. Skt.
B622 ..... 11/16" 6 Pt. Std. Skt.
B624 ..... 3/4" 6 Pt. Std. Skt.
B626 ..... 13/16" 6 Pt. Std. Skt.
B628 ..... 7/8" 6 Pt. Std. Skt.
213R..... TWIST LOCK CLIP RAIL



B11K

B608 ..... 1/4" 6 Pt. Std. Skt.
B610 ..... 5/16" 6 Pt. Std. Skt.
B612 ..... 3/8" 6 Pt. Std. Skt.
B614 ..... 7/16" 6 Pt. Std. Skt.
B616 ..... 1/2" 6 Pt. Std. Skt.
B618 ..... 9/16" 6 Pt. Std. Skt.
B620 ..... 5/8" 6 Pt. Std. Skt.
B622 ..... 11/16" 6 Pt. Std. Skt.
B624 ..... 3/4" 6 Pt. Std. Skt.
B626 ..... 13/16" 6 Pt. Std. Skt.
B628 ..... 7/8" 6 Pt. Std. Skt.
213R..... TWIST LOCK CLIP RAIL



3/8" Drive Sockets & Sets – Chrome



B11KM

B612	3/8" 6 Pt. Std. Skt.	B1224	3/4" 12 Pt. Std. Skt.
B614	7/16" 6 Pt. Std. Skt.	B1226	13/16" 12 Pt. Std. Skt.
B616	1/2" 6 Pt. Std. Skt.	B1228	7/8" 12 Pt. Std. Skt.
B618	9/16" 6 Pt. Std. Skt.	B52	RATCHET
B1220	5/8" 12 Pt. Std. Skt.	B105	6" EXTENSION
B1222	11/16" 12 Pt. Std. Skt.	93	METAL BOX



B11RK

B610	5/16" 6 Pt. Std. Skt.	B622	11/16" 6 Pt. Std. Skt.
B612	3/8" 6 Pt. Std. Skt.	B624	3/4" 6 Pt. Std. Skt.
B614	7/16" 6 Pt. Std. Skt.	B52	REVERSIBLE RATCHET
B616	1/2" 6 Pt. Std. Skt.	B103	3" EXTENSION
B618	9/16" 6 Pt. Std. Skt.	BD620P	5/8" SPARK PLUG SKT.
B620	5/8" 6 Pt. Std. Skt.	93	METAL BOX



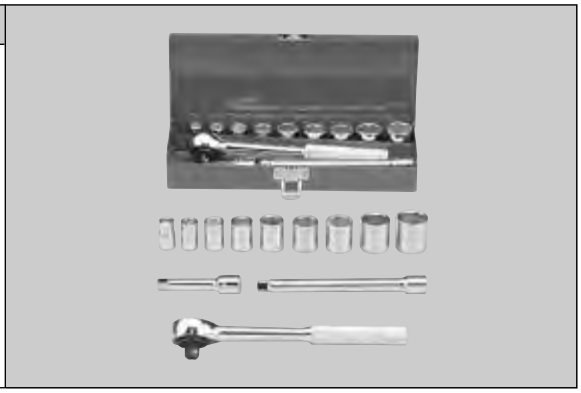
B12K

B1212	3/8" 12 Pt. Std. Skt.	B1226	13/16" 12 Pt. Std. Skt.
B1214	7/16" 12 Pt. Std. Skt.	B1228	7/8" 12 Pt. Std. Skt.
B1216	1/2" 12 Pt. Std. Skt.	B52	REVERSIBLE RATCHET
B1218	9/16" 12 Pt. Std. Skt.	B103	3" EXTENSION
B1220	5/8" 12 Pt. Std. Skt.	B105	6" EXTENSION
B1222	11/16" 12 Pt. Std. Skt.	93	METAL BOX
B1224	3/4" 12 Pt. Std. Skt.		

3/8" Drive Sockets & Sets – Chrome

BD12K

B612 ..... 3/8" 6 Pt. Std. Skt.
B614 ..... 7/16" 6 Pt. Std. Skt.
B616 ..... 1/2" 6 Pt. Std. Skt.
B618 ..... 9/16" 6 Pt. Std. Skt.
B620 ..... 5/8" 6 Pt. Std. Skt.
B622 ..... 11/16" 6 Pt. Std. Skt.
B624 ..... 3/4" 6 Pt. Std. Skt.
B626 ..... 13/16" 6 Pt. Std. Skt.
B628 ..... 7/8" 6 Pt. Std. Skt.
B52 ..... REVERSIBLE RATCHET
B103 ..... 3" EXTENSION
B105 ..... 6" EXTENSION
93 ..... METAL BOX



B19K

B612 ..... 3/8" 6 Pt. Std. Skt.
B614 ..... 7/16" 6 Pt. Std. Skt.
B616 ..... 1/2" 6 Pt. Std. Skt.
B618 ..... 9/16" 6 Pt. Std. Skt.
B620 ..... 5/8" 6 Pt. Std. Skt.
B622 ..... 11/16" 6 Pt. Std. Skt.
B624 ..... 3/4" 6 Pt. Std. Skt.
B626 ..... 13/16" 6 Pt. Std. Skt.
B628 ..... 7/8" 6 Pt. Std. Skt.
BD612..... 3/8" 6 Pt. Deep Skt.
BD614..... 7/16" 6 Pt. Deep Skt.
BD616..... 1/2" 6 Pt. Deep Skt.
BD618..... 9/16" 6 Pt. Deep Skt.
BD622 ..... 11/16" 6 Pt. Deep Skt.
BD624 ..... 3/4" 6 Pt. Deep Skt.
B52 ..... REVERSIBLE RATCHET
B103 ..... 3" EXTENSION
B105 ..... 6" EXTENSION
BD620P ..... 5/8" SPARK PLUG SKT.
94 ..... METAL BOX



B20K

B612 ..... 3/8" 6 Pt. Std. Skt.
B614 ..... 7/16" 6 Pt. Std. Skt.
B616 ..... 1/2" 6 Pt. Std. Skt.
B618 ..... 9/16" 6 Pt. Std. Skt.
B1220 ..... 5/8" 12 Pt. Std. Skt.
B1222 ..... 11/16" 12 Pt. Std. Skt.
B1224 ..... 3/4" 12 Pt. Std. Skt.
B1226 ..... 13/16" 12 Pt. Std. Skt.
B1228 ..... 7/8" 12 Pt. Std. Skt.
BD612..... 3/8" 6 Pt. Deep Skt.
BD614..... 7/16" 6 Pt. Deep Skt.
BD616..... 1/2" 6 Pt. Deep Skt.
BD618..... 9/16" 6 Pt. Deep Skt.
BD620 ..... 5/8" 6 Pt. Deep Skt.
BD622 ..... 11/16" 6 Pt. Deep Skt.
BD624 ..... 3/4" 6 Pt. Deep Skt.
BD626 ..... 13/16" 6 Pt. Deep Skt.
B52 ..... RATCHET
B105 ..... 6" EXTENSION
B40A..... FLEX HANDLE
94 ..... METAL BOX

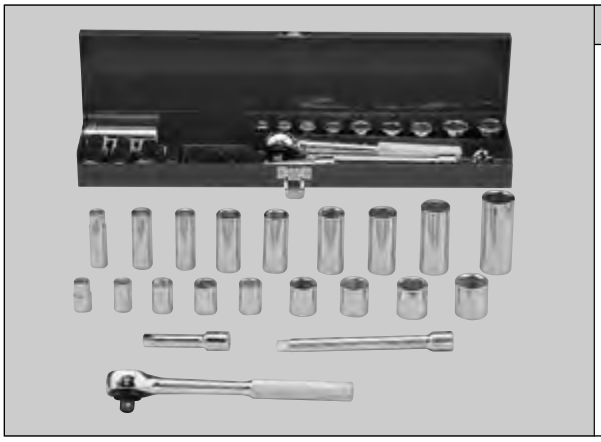


3/8" Drive Sockets & Sets – Chrome



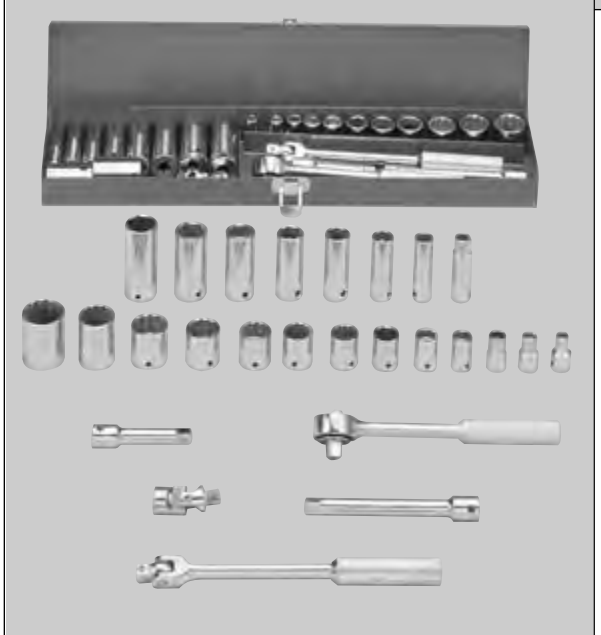
B22K

B1212 ..... 3/8" 12 Pt. Std. Skt.
B1214 ..... 7/16" 12 Pt. Std. Skt.
B1216 ..... 1/2" 12 Pt. Std. Skt.
B1218 ..... 9/16" 12 Pt. Std. Skt.
B1220 ..... 5/8" 12 Pt. Std. Skt.
B1222 ..... 11/16" 12 Pt. Std. Skt.
B1224 ..... 3/4" 12 Pt. Std. Skt.
B1226 ..... 13/16" 12 Pt. Std. Skt.
B1228 ..... 7/8" 12 Pt. Std. Skt.
BD1212..... 3/8" 12 Pt. Deep Skt.
BD1214..... 7/16" 12 Pt. Deep Skt.
BD1216..... 1/2" 12 Pt. Deep Skt.
BD1218..... 9/16" 12 Pt. Deep Skt.
BD1220..... 5/8" 12 Pt. Deep Skt.
BD1222..... 11/16" 12 Pt. Deep Skt.
BD1224..... 3/4" 12 Pt. Deep Skt.
BD1226..... 13/16" 12 Pt. Deep Skt.
BD1228..... 7/8" 12 Pt. Deep Skt.
B52 ..... REVERSIBLE RATCHET
B103 ..... 3" EXTENSION
B105 ..... 6" EXTENSION
B140A..... UNIVERSAL JOINT
94 ..... METAL BOX



BD22K

B612 ..... 3/8" 6 Pt. Std. Skt.
B614 ..... 7/16" 6 Pt. Std. Skt.
B616 ..... 1/2" 6 Pt. Std. Skt.
B618 ..... 9/16" 6 Pt. Std. Skt.
B620 ..... 5/8" 6 Pt. Std. Skt.
B622 ..... 11/16" 6 Pt. Std. Skt.
B624 ..... 3/4" 6 Pt. Std. Skt.
B626 ..... 13/16" 6 Pt. Std. Skt.
B628 ..... 7/8" 6 Pt. Std. Skt.
BD612..... 3/8" 6 Pt. Deep Skt.
BD614..... 7/16" 6 Pt. Deep Skt.
BD616..... 1/2" 6 Pt. Deep Skt.
BD618..... 9/16" 6 Pt. Deep Skt.
BD620 ..... 5/8" 6 Pt. Deep Skt.
BD622 ..... 11/16" 6 Pt. Deep Skt.
BD624 ..... 3/4" 6 Pt. Deep Skt.
BD626 ..... 13/16" 6 Pt. Deep Skt.
BD628 ..... 7/8" 6 Pt. Deep Skt.
B52 ..... REVERSIBLE RATCHET
B103 ..... 3" EXTENSION
B105 ..... 6" EXTENSION
B140A..... UNIVERSAL JOINT
94 ..... METAL BOX

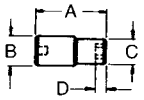


B26K

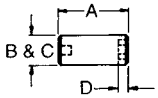
B608 ..... 1/4" 6 Pt. Std. Skt.
B610 ..... 5/16" 6 Pt. Std. Skt.
B612 ..... 3/8" 6 Pt. Std. Skt.
B614 ..... 7/16" 6 Pt. Std. Skt.
B616 ..... 1/2" 6 Pt. Std. Skt.
B618 ..... 9/16" 6 Pt. Std. Skt.
B1220 ..... 5/8" 12 Pt. Std. Skt.
B1222 ..... 11/16" 12 Pt. Std. Skt.
B1224 ..... 3/4" 12 Pt. Std. Skt.
B1226 ..... 13/16" 12 Pt. Std. Skt.
B1228 ..... 7/8" 12 Pt. Std. Skt.
B1230 ..... 15/16" 12 Pt. Std. Skt.
B1232 ..... 1" 12 Pt. Std. Skt.
BD612..... 3/8" 6 Pt. Deep Skt.
BD614..... 7/16" 6 Pt. Deep Skt.
BD616..... 1/2" 6 Pt. Deep Skt.
BD618..... 9/16" 6 Pt. Deep Skt.
BD620 ..... 5/8" 6 Pt. Deep Skt.
BD622 ..... 11/16" 6 Pt. Deep Skt.
BD624 ..... 3/4" 6 Pt. Deep Skt.
BD626 ..... 13/16" 6 Pt. Deep Skt.
B52 ..... RATCHET
B103 ..... 3" EXTENSION
B105 ..... 6" EXTENSION
B40A..... FLEX HANDLE
B140A..... UNIVERSAL
94 ..... METAL BOX

⅜" Drive Metric Socket Wrenches – Chrome

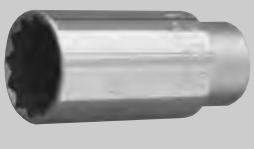




TYPE I



TYPE II



⅜" Square Drive 12 Point Standard — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty.	Opening
		A	B	C	D		Part No.		
8 mm	I	25.7 mm	17.3 mm	12.2 mm	6.6 mm	.06	BM1208	6	8 mm
9 mm	I	25.4 mm	17.3 mm	14.2 mm	6.9 mm	.06	BM1209	6	9 mm
10 mm	I	25.4 mm	17.3 mm	14.9 mm	7.9 mm	.06	BM1210	6	10 mm
11 mm	I	25.4 mm	17.3 mm	16.5 mm	8.1 mm	.06	BM1211	6	11 mm
12 mm	II	25.4 mm	17.8 mm	17.8 mm	7.9 mm	.06	BM1212	6	12 mm
13 mm	II	25.7 mm	18.8 mm	18.8 mm	7.9 mm	.06	BM1213	6	13 mm
14 mm	II	25.7 mm	20.6 mm	20.6 mm	12.4 mm	.06	BM1214	6	14 mm
15 mm	II	25.7 mm	21.6 mm	21.6 mm	12.4 mm	.13	BM1215	6	15 mm
16 mm	II	28.7 mm	22.1 mm	22.1 mm	14.2 mm	.13	BM1216	6	16 mm
17 mm	II	30.0 mm	24.4 mm	24.4 mm	14.2 mm	.19	BM1217	6	17 mm
18 mm	II	30.0 mm	24.4 mm	24.4 mm	15.7 mm	.19	BM1218	6	18 mm
19 mm	II	30.0 mm	26.2 mm	26.2 mm	17.3 mm	.19	BM1219	6	19 mm

⅜" Square Drive 6 Point Standard — Metric

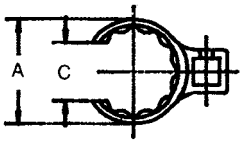
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty. Pkg.	Opening
		A	B	C	D		Part No.		
6 mm	I	1⅛	⅝	25/64	5/32	.04	BM606	6	6 mm
7 mm	I	1⅛	⅝	7/16	5/32	.04	BM607	6	7 mm
8 mm	I	1⅛	⅝	15/32	13/64	.05	BM608	6	8 mm
9 mm	I	1⅛	⅝	33/64	7/32	.05	BM609	6	9 mm
10 mm	I	1⅛	⅝	37/64	15/64	.05	BM610	6	10 mm
11 mm	II	1⅛	—	⅝	9/32	.05	BM611	6	11 mm
12 mm	II	1⅛	—	11/16	5/16	.06	BM612	6	12 mm
13 mm	II	1⅛	—	47/64	5/16	.08	BM613	6	13 mm
14 mm	II	1⅛	—	49/64	25/64	.08	BM614	6	14 mm
15 mm	II	1⅛	—	27/32	25/64	.10	BM615	6	15 mm
16 mm	II	1⅛	—	⅞	13/32	.10	BM616	6	16 mm
17 mm	II	1⅛	—	59/64	25/64	.13	BM617	6	17 mm
18 mm	II	1⅛	—	31/32	13/32	.13	BM618	6	18 mm
19 mm	II	1⅛	—	1	15/32	.15	BM619	6	19 mm

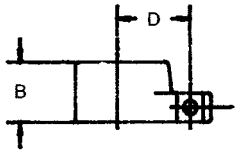
⅜" Square Drive 6 Point Deep — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty.	Opening
		A	B	C	D		Part No.		
6 mm	I	2 7/32	⅝	25/64	5/32	.10	BMD606	6	6 mm
7 mm	I	2 7/32	⅝	25/64	5/32	.10	BMD607	6	7 mm
8 mm	I	2 7/32	⅝	29/64	3/16	.12	BMD608	6	8 mm
9 mm	I	2 7/32	⅝	½	15/64	.10	BMD609	6	9 mm
10 mm	I	2 7/32	⅝	9/16	15/64	.12	BMD610	6	10 mm
11 mm	I	2 7/32	—	⅝	9/32	.12	BMD611	6	11 mm
12 mm	II	2 7/32	—	43/64	5/16	.13	BMD612	6	12 mm
13 mm	II	2 7/32	—	47/64	5/16	.17	BMD613	6	13 mm
14 mm	II	2 7/32	—	49/64	25/64	.21	BMD614	6	14 mm
15 mm	II	2 7/32	—	27/32	25/64	.23	BMD615	6	15 mm
16 mm	II	2 7/32	—	⅞	25/64	.23	BMD616	6	16 mm
17 mm	II	2½	—	59/64	25/64	.31	BMD617	6	17 mm
18 mm	II	2½	—	31/32	13/32	.23	BMD618	6	18 mm
19 mm	II	2½	—	63/64	7/16	.25	BMD619	6	19 mm

⅜" Drive Metric Crowfoot Wrench and Hex Bit Sockets



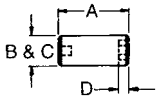




⅜" Drive Metric Crowfoot Wrench — Flare Nut 12 Pt.

Wrench Opening	Diameter of Head	Thickness of Head	Width of Slot	Length of Centers	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Wrench Opening
	A	B	C	D		Part No.		
15 mm	24.9	18.3	16.5	18.8	0.10	BC15MM	6	15 mm
16 mm	24.9	18.3	16.5	18.8	0.10	BC16MM	6	16 mm
17 mm	27.2	18.3	16.5	20.1	0.11	BC17MM	6	17 mm
18 mm	29.7	19.1	16.5	21.3	0.12	BC18MM	6	18 mm
19 mm	29.7	19.1	16.5	21.3	0.12	BC19MM	6	19 mm
20 mm	31.8	19.1	16.5	22.4	0.13	BC20MM	6	20 mm
21 mm	31.8	19.1	16.5	22.4	0.13	BC21MM	6	21 mm
22 mm	34.0	19.8	16.5	23.9	0.14	BC22MM	6	22 mm
23 mm	36.1	19.8	16.5	24.9	0.15	BC23MM	6	23 mm
24 mm	36.1	19.8	16.5	24.9	0.15	BC24MM	6	24 mm
25 mm	38.1	20.6	16.5	25.9	0.16	BC25MM	6	25 mm
26 mm	38.1	20.6	16.5	25.9	0.16	BC26MM	6	26 mm
27 mm	39.9	20.6	16.5	27.2	0.17	BC27MM	6	27 mm





TYPE VI

⅜" Drive Metric Hex Bit Sockets

Bit Size	Type	Length	Drive End	Bit End	Bit Length	Wt. Ea. Lbs.	Chrome	Replacement Hex Bits	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Part No.			
4 mm	VI	68 mm	17.5 mm	15.0	41.0 mm	0.1	BA4MM	BA4MMB	6	4 mm
5 mm	VI	68 mm	17.5 mm	15.0	41.0 mm	0.1	BA5MM	BA5MMB	6	5 mm
6 mm	VI	68 mm	17.5 mm	15.0	41.0 mm	0.1	BA6MM	BA6MMB	6	6 mm
7 mm	VI	72.5 mm	17.5 mm	15.0	45.3 mm	0.1	BA7MM	BA7MMB	6	7 mm
8 mm	VI	72.5 mm	17.5 mm	15.0	45.3 mm	0.1	BA8MM	BA8MMB	6	8 mm
9 mm	VI	72.5 mm	19 mm	19.0	42.4 mm	0.15	BA9MM	BA9MMB	6	9 mm
10 mm	VI	72.5 mm	19 mm	19.0	42.4 mm	0.15	BA10MM	BA10MMB	6	10 mm

⅜" Drive Metric Socket Sets – Chrome

MB11K

METRIC



BM610 ..... 10 mm 6 Pt. Std. Skt.
BM612 ..... 12 mm 6 Pt. Std. Skt.
BM613 ..... 13 mm 6 Pt. Std. Skt.
BM614 ..... 14 mm 6 Pt. Std. Skt.
BM615 ..... 15 mm 6 Pt. Std. Skt.
BM617 ..... 17 mm 6 Pt. Std. Skt.
BM618 ..... 18 mm 6 Pt. Std. Skt.
BM619 ..... 19 mm 6 Pt. Std. Skt.
B52 ..... REVERSIBLE RATCHET
B103 ..... 3" EXTENSION
BD620P ..... SPARK PLUG SKT.
92 ..... METAL BOX

MB12K

METRIC



BM1208 ..... 8 mm 12 Pt. Std. Skt.
BM1209 ..... 9 mm 12 Pt. Std. Skt.
BM1210 ..... 10 mm 12 Pt. Std. Skt.
BM1211..... 11 mm 12 Pt. Std. Skt.
BM1212 ..... 12 mm 12 Pt. Std. Skt.
BM1213 ..... 13 mm 12 Pt. Std. Skt.
BM1214 ..... 14 mm 12 Pt. Std. Skt.
BM1215 ..... 15 mm 12 Pt. Std. Skt.
BM1216 ..... 16 mm 12 Pt. Std. Skt.
BM1217 ..... 17 mm 12 Pt. Std. Skt.
BM1218 ..... 18 mm 12 Pt. Std. Skt.
BM1219 ..... 19 mm 12 Pt. Std. Skt.
213B ..... TWIST LOCK CLIP RAIL

MB14K

METRIC



BM606 ..... 6 mm 6 Pt. Std. Skt.
BM607 ..... 7 mm 6 Pt. Std. Skt.
BM608 ..... 8 mm 6 Pt. Std. Skt.
BM609 ..... 9 mm 6 Pt. Std. Skt.
BM610 ..... 10 mm 6 Pt. Std. Skt.
BM611 ..... 11 mm 6 Pt. Std. Skt.
BM612 ..... 12 mm 6 Pt. Std. Skt.
BM613 ..... 13 mm 6 Pt. Std. Skt.
BM614 ..... 14 mm 6 Pt. Std. Skt.
BM615 ..... 15 mm 6 Pt. Std. Skt.
BM616 ..... 16 mm 6 Pt. Std. Skt.
BM617 ..... 17 mm 6 Pt. Std. Skt.
BM618 ..... 18 mm 6 Pt. Std. Skt.
BM619 ..... 19 mm 6 Pt. Std. Skt.
218B..... TWIST LOCK CLIP RAIL

BA7KM

METRIC



BA4MM..... 4 mm Hex Bit Skt.
BA5MM..... 5 mm Hex Bit Skt.
BA6MM..... 6 mm Hex Bit Skt.
BA7MM..... 7 mm Hex Bit Skt.
BA8MM ..... 8 mm Hex Bit Skt.
BA9MM ..... 9 mm Hex Bit Skt.
BA10MM ... 10 mm Hex Bit Skt.
208B..... TWIST LOCK CLIP RAIL

BC13KM

METRIC



BC15MM.. 15 mm 12 Pt. Crowfoot
BC16MM.. 16 mm 12 Pt. Crowfoot
BC17MM.. 17 mm 12 Pt. Crowfoot
BC18MM.. 18 mm 12 Pt. Crowfoot
BC19MM.. 19 mm 12 Pt. Crowfoot
BC20MM.. 20 mm 12 Pt. Crowfoot
BC21MM.. 21 mm 12 Pt. Crowfoot
BC22MM... 22 mm 12 Pt. Crowfoot
BC23MM... 23 mm 12 Pt. Crowfoot
BC24MM... 24 mm 12 Pt. Crowfoot
BC25MM... 25 mm 12 Pt. Crowfoot
BC26MM... 26 mm 12 Pt. Crowfoot
BC27MM... 27 mm 12 Pt. Crowfoot
208B..... TWIST LOCK CLIP RAIL

3/8" Drive Metric Socket Sets – Chrome

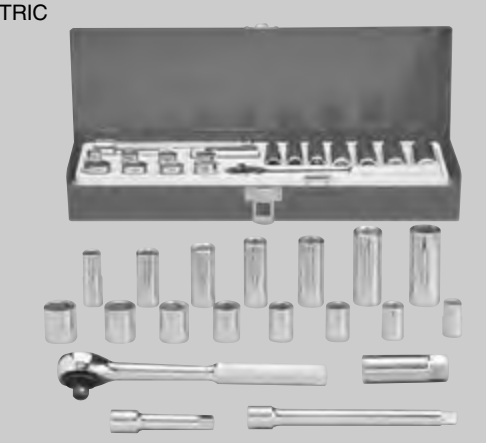
METRIC



MB17K

BM1208 ..... 8 mm 12 Pt. Std. Skt.
BM1209 ..... 9 mm 12 Pt. Std. Skt.
BM1210 ..... 10 mm 12 Pt. Std. Skt.
BM1211..... 11 mm 12 Pt. Std. Skt.
BM1212 ..... 12 mm 12 Pt. Std. Skt.
BM1213 ..... 13 mm 12 Pt. Std. Skt.
BM1214 ..... 14 mm 12 Pt. Std. Skt.
BM1215 ..... 15 mm 12 Pt. Std. Skt.
BM1216 ..... 16 mm 12 Pt. Std. Skt.
BM1217 ..... 17 mm 12 Pt. Std. Skt.
BM1218 ..... 18 mm 12 Pt. Std. Skt.
BM1219 ..... 19 mm 12 Pt. Std. Skt.
B40A..... 7 13/16" FLEXIBLE HANDLE
B52 ..... REVERSIBLE RATCHET
B103 ..... 3" EXTENSION
B105 ..... 6" EXTENSION
B140A..... UNIVERSAL JOINT
94 ..... METAL BOX

METRIC



MB19K

BM610 ..... 10 mm 6 Pt. Std. Skt.
BM612 ..... 12 mm 6 Pt. Std. Skt.
BM613 ..... 13 mm 6 Pt. Std. Skt.
BM614 ..... 14 mm 6 Pt. Std. Skt.
BM615 ..... 15 mm 6 Pt. Std. Skt.
BM617 ..... 17 mm 6 Pt. Std. Skt.
BM618 ..... 18 mm 6 Pt. Std. Skt.
BM619 ..... 19 mm 6 Pt. Std. Skt.
BMD610..... 10 mm 6 Pt. Deep Skt.
BMD612..... 12 mm 6 Pt. Deep Skt.
BMD613..... 13 mm 6 Pt. Deep Skt.
BMD614..... 14 mm 6 Pt. Deep Skt.
BMD615..... 15 mm 6 Pt. Deep Skt.
BMD617..... 17 mm 6 Pt. Deep Skt.
BMD619..... 19 mm 6 Pt. Deep Skt.
B52 ..... REVERSIBLE RATCHET
B103 ..... 3" EXTENSION
B105 ..... 6" EXTENSION
BD620P ..... SPARK PLUG SKT.
94 ..... METAL BOX

METRIC

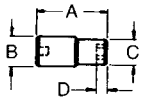


MB26K

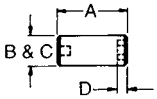
BM607 ..... 7 mm 6 Pt. Std. Skt.
BM608 ..... 8 mm 6 Pt. Std. Skt.
BM609 ..... 9 mm 6 Pt. Std. Skt.
BM610 ..... 10 mm 6 Pt. Std. Skt.
BM611 ..... 11 mm 6 Pt. Std. Skt.
BM612 ..... 12 mm 6 Pt. Std. Skt.
BM613 ..... 13 mm 6 Pt. Std. Skt.
BM614 ..... 14 mm 6 Pt. Std. Skt.
BM615 ..... 15 mm 6 Pt. Std. Skt.
BM616 ..... 16 mm 6 Pt. Std. Skt.
BM617 ..... 17 mm 6 Pt. Std. Skt.
BM618 ..... 18 mm 6 Pt. Std. Skt.
BM619 ..... 19 mm 6 Pt. Std. Skt.
BMD610..... 10 mm 6 Pt. Deep Skt.
BMD611..... 11 mm 6 Pt. Deep Skt.
BMD612..... 12 mm 6 Pt. Deep Skt.
BMD613..... 13 mm 6 Pt. Deep Skt.
BMD614..... 14 mm 6 Pt. Deep Skt.
BMD615..... 15 mm 6 Pt. Deep Skt.
BMD616..... 16 mm 6 Pt. Deep Skt.
BMD617..... 17 mm 6 Pt. Deep Skt.
BMD618..... 18 mm 6 Pt. Deep Skt.
BMD619..... 19 mm 6 Pt. Deep Skt.
B52 ..... RATCHET
B105 ..... 6" EXTENSION
B40A..... FLEX HANDLE
94 ..... METAL BOX

3/8" Drive Power/Impact





TYPE I



TYPE II



3/8" Square Drive 6 Point Standard

Opening	Type	Length A	Drive End B	Opening End C	Minimum Depth D	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Opening
5/16	I	1 1/16	47/64	1/2	7/64	.07	2610	6	5/16
3/8	I	1 1/16	47/64	19/32	5/32	.07	2612	6	3/8
7/16	I	1 1/16	47/64	43/64	7/32	.08	2614	6	7/16
1/2	II	1 3/32	—	3/4	13/64	.08	2616	6	1/2
9/16	II	1 1/8	—	55/64	1/4	.13	2618	6	9/16
5/8	II	1 1/8	—	59/64	9/32	.15	2620	6	5/8
11/16	II	1 1/8	—	63/64	5/16	.16	2622	6	11/16
3/4	II	1 3/16	—	1 1/32	23/64	.17	2624	6	3/4

3/8" Square Drive 6 Point Deep

Opening	Type	Length A	Drive End B	Opening End C	Minimum Depth D	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Opening
5/16	I	2 1/4	47/64	1/2	3/32	.19	12610	6	5/16
3/8	I	2 1/4	47/64	19/32	7/64	.19	12612	6	3/8
7/16	I	2 1/4	47/64	43/64	13/64	.19	12614	6	7/16
1/2	II	2 1/4	—	3/4	13/64	.18	12616	6	1/2
9/16	I	2 1/4	55/64	13/16	11/32	.25	12618	6	9/16
5/8	I	2 1/4	55/64	57/64	3/8	.28	12620	6	5/8
11/16	II	2 5/16	—	61/64	3/8	.31	12622	6	11/16
3/4	II	2 5/16	—	1 3/64	7/16	.38	12624	6	3/4

3/8" Square Drive 6 Point Standard — Metric

Opening	Type	Length A	Drive End B	Opening End C	Minimum Depth D	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.	Opening
10 mm	I	28.0 mm	18.0 mm	15.1 mm	5.0 mm	.05	2M610	6	10 mm
12 mm	II	28.0 mm	18.5 mm	18.5 mm	7.5 mm	.07	2M612	6	12 mm
13 mm	II	30.0 mm	19.6 mm	19.6 mm	9.5 mm	.07	2M613	6	13 mm
14 mm	II	30.0 mm	21.3 mm	21.3 mm	9.5 mm	.08	2M614	6	14 mm
15 mm	II	30.0 mm	22.3 mm	22.3 mm	9.5 mm	.10	2M615	6	15 mm
17 mm	II	30.0 mm	24.5 mm	24.5 mm	9.5 mm	.11	2M617	6	17 mm
18 mm	II	30.0 mm	25.3 mm	25.3 mm	9.5 mm	.12	2M618	6	18 mm
19 mm	II	30.0 mm	27.2 mm	27.2 mm	10.0 mm	.13	2M619	6	19 mm



Item	Description	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
Universal	3/8" Impact Universal Joint	.18	2140A	6
Adaptor	3/8" F X 1/2" M	.10	24A	6

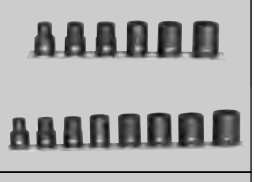


IB6K

2610..... 5/16" 6 Pt. Skt.
2612..... 3/8" 6 Pt. Skt.
2614..... 7/16" 6 Pt. Skt.
2616..... 1/2" 6 Pt. Skt.
2618..... 9/16" 6 Pt. Skt.
2620..... 5/8" 6 Pt. Skt.
242..... CLIP RAIL

IMB8K

2M610 ..... 10 mm 6 Pt. Skt.
2M612 ..... 12 mm 6 Pt. Skt.
2M613 ..... 13 mm 6 Pt. Skt.
2M614 ..... 14 mm 6 Pt. Skt.
2M615 ..... 15 mm 6 Pt. Skt.
2M617 ..... 17 mm 6 Pt. Skt.
2M618 ..... 18 mm 6 Pt. Skt.
2M619 ..... 19 mm 6 Pt. Skt.
244 ..... CLIP RAIL



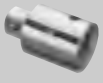
IB8K

2610..... 5/16" 6 Pt. Skt.
2612..... 3/8" 6 Pt. Skt.
2614..... 7/16" 6 Pt. Skt.
2616..... 1/2" 6 Pt. Skt.
2618..... 9/16" 6 Pt. Skt.
2620..... 5/8" 6 Pt. Skt.
2622..... 11/16" 6 Pt. Skt.
2624..... 3/4" 6 Pt. Skt.
70..... METAL TRAY

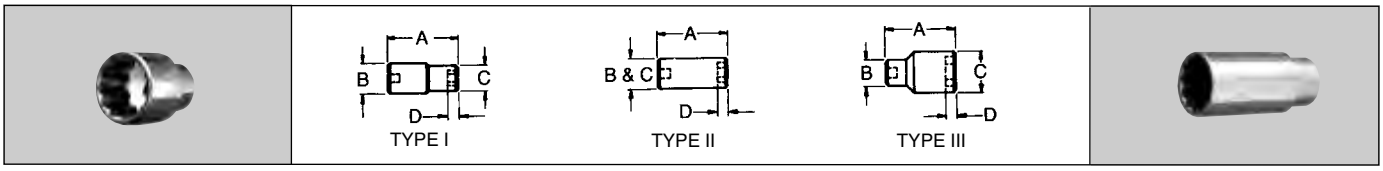
IB8KD

12610..... 5/16" 6 Pt. Deep Skt.
12612..... 3/8" 6 Pt. Deep Skt.
12614..... 7/16" 6 Pt. Deep Skt.
12616..... 1/2" 6 Pt. Deep Skt.
12618..... 9/16" 6 Pt. Deep Skt.
12620..... 5/8" 6 Pt. Deep Skt.
12622..... 11/16" 6 Pt. Deep Skt.
12624..... 3/4" 6 Pt. Deep Skt.
70 ..... METAL TRAY

½" Drive Attachments
Chrome

Type		Description	Part No.	Std. Pkg. Qty.
FLEXIBLE HANDLE		Chrome Knurled Grip. **Length 17". Weight 1.65 lb.**	SF41	5
REVERSIBLE RATCHET		Chrome .45 tooth. **Head diameter 1⅝". Length 10". Weight 1.44 lb.**	SF51	1
REVERSIBLE RATCHET REPAIR KIT		Preassembled Ratchet Replacement Head. **Weight .31 lb.** For SF51 and SF55	SF51RD	1
DOUBLE PAWL RATCHET		Double Pawl 45 tooth. **Head diameter 1 1/16". Length 15". Weight 1.25 lb.**	SF55	1
EXTENSION		Chrome. **Length 20". Weight 1.19 lb.**	S121P	5
EXTENSION		Chrome. **Length 2". Weight .21 lb.**	S102P	5
EXTENSION		Chrome. **Length 5". Weight .37 lb.**	S110P	5
EXTENSION		Chrome. **Length 10". Weight .66 lb.**	S115P	5
UNIVERSAL JOINT		Chrome. **Length 2 5/16". Weight .15 lb.**	S140	5
ADAPTOR		Chrome. ½"F to ⅜"M. **Weight .15 lb.**	SH129	5
ADAPTOR		Chrome. ½"F to ¾"M. **Weight .18 lb.**	SH130	5
18" SPEEDER		Chrome. Revolving Grip. **Length 18". Weight 1.2 lb.**	S15	5

½" Drive Socket Wrenches



Martin Heavy Duty Chrome Hand Tool Sockets are Manufactured to Extremely Close Tolerances of American Alloy Steel. The 12 Point Broach Opening Provides a Secure Fit for Absolute Tightening and Loosening.

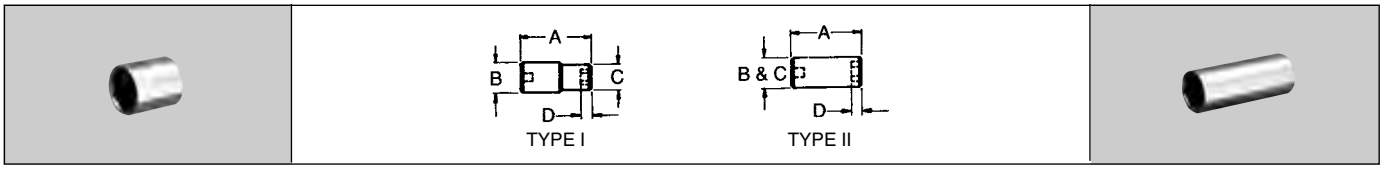
½" Square Drive 12 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
3/8	I	1 15/32	13/16	37/64	5/32	.09	ST1212	5	3/8
7/16	I	1 15/32	13/16	41/64	7/32	.09	ST1214	5	7/16
1/2	I	1 15/32	13/16	23/32	17/64	.10	ST1216	5	1/2
9/16	II	1 15/32	—	13/16	21/64	.10	ST1218	5	9/16
5/8	II	1 15/32	—	7/8	1 15/32	.14	ST1220	5	5/8
11/16	II	1 15/32	—	31/32	1 15/32	.15	ST1222	5	11/16
3/4	II	1 15/32	—	1 1/16	1 15/32	.19	ST1224	5	3/4
13/16	II	1 9/16	—	1 1/8	1 9/16	.20	ST1226	5	13/16
7/8	II	1 5/8	—	1 11/64	1/2	.24	ST1228	5	7/8
15/16	II	1 5/8	—	1 1/4	35/64	.28	ST1230	5	15/16
1	II	1 11/16	—	1 5/16	35/64	.32	ST1232	5	1
1 1/16	III	1 3/4	1 3/32	1 13/32	5/8	.32	ST1234	5	1 1/16
1 1/8	III	1 13/16	1 7/64	1 1/2	21/32	.35	ST1236	5	1 1/8
1 3/16	III	1 7/8	1 7/64	1 37/64	21/32	.40	ST1238	5	1 3/16
1 1/4	III	1 59/64	1 1/8	1 13/16	3/4	.43	ST1240	5	1 1/4
1 5/16	III	2	1 3/16	1 13/16	13/16	.45	ST1242	5	1 5/16
1 3/8	III	2	1 1/4	1 7/8	55/64	.46	ST1244	5	1 3/8
1 7/16	III	2 1/16	1 3/8	1 15/16	29/32	.47	ST1246	5	1 7/16
1 1/2	III	2 1/8	1 3/8	2	1 1/16	.49	ST1248	5	1 1/2

½" Square Drive 12 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
3/8	II	3 3/64	—	13/16	23/32	.21	SD1212	5	3/8
7/16	II	3 3/64	—	13/16	23/32	.24	SD1214	5	7/16
1/2	II	3 1/16	13/16	23/32	17/64	.24	SD1216	5	1/2
9/16	II	3 1/16	—	13/16	21/64	.24	SD1218	5	9/16
5/8	II	3 1/16	—	7/8	3/8	.30	SD1220	5	5/8
11/16	II	3 1/16	—	31/32	3/8	.34	SD1222	5	11/16
3/4	II	3 1/16	—	1 3/64	7/16	.35	SD1224	5	3/4
13/16	II	3 1/16	—	1 7/64	29/64	.40	SD1226	5	13/16
7/8	II	3 1/16	—	1 11/64	1/2	.43	SD1228	5	7/8
15/16	II	3 1/16	—	1 1/4	35/64	.48	SD1230	5	15/16
1	III	3 1/16	1 3/32	1 5/16	35/64	.45	SD1232	5	1
1 1/16	III	3 1/16	1 7/64	1 13/32	5/8	.50	SD1234	5	1 1/16
1 1/8	III	3 1/16	1 7/64	1 1/2	21/32	.51	SD1236	5	1 1/8
1 3/16	III	3 3/64	1 7/64	1 37/64	21/32	.56	SD1238	5	1 3/16
1 1/4	III	3 3/64	1 1/8	1 41/64	3/4	.61	SD1240	5	1 1/4
1 5/16	III	3 3/64	1 9/64	1 13/16	49/64	.61	SD1242	5	1 5/16
1 3/8	III	3 3/64	1 15/64	1 7/8	25/32	.84	SD1244	5	1 3/8
1 7/16	III	3 3/64	1 19/64	1 61/64	7/8	.88	SD1246	5	1 7/16
1 1/2	III	3 3/64	1 11/32	2 1/64	55/64	.93	SD1248	5	1 1/2

½" Drive Socket Wrenches – Chrome



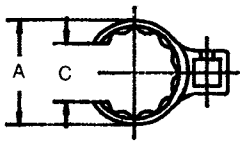
½" Square Drive 6 Point Standard

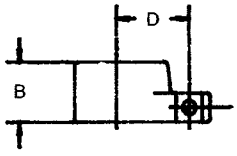
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
3/8	I	1½	7/8	53/64	5/16	.11	ST612	5	3/8
7/16	I	1½	55/64	55/64	21/64	.11	ST614	5	7/16
½	I	1½	55/64	59/64	13/32	.11	ST616	5	½
9/16	I	1½	55/64	13/16	13/32	.13	ST618	5	9/16
5/8	II	1½	7/8	7/8	9/16	.12	ST620	5	5/8
11/16	II	1½	31/32	31/32	9/16	.16	ST622	5	11/16
3/4	II	1½	1 3/64	1 3/64	21/32	.19	ST624	5	3/4
13/16	II	1½	1 3/32	1 3/32	11/16	.20	ST626	5	13/16
7/8	II	1½	1 3/16	1 3/16	3/4	.29	ST628	5	7/8
15/16	II	1½	1 17/64	1 17/64	51/64	.31	ST630	5	15/16
1	II	1 39/64	1 21/64	1 21/64	53/64	.37	ST632	5	1
1 1/16	II	1 39/64	1 13/32	1 13/32	15/16	.52	ST634	5	1 1/16
1 1/8	II	1 5/8	1 15/32	1 15/32	63/64	.52	ST636	5	1 1/8
1 3/16	II	1 5/8	1 17/32	1 17/32	63/64	.59	ST638	5	1 3/16
1 1/4	II	1 3/4	1 37/64	1 37/64	1 1/8	.66	ST640	5	1 1/4

½" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
½	I	3 1/8	7/8	49/64	51/64	.34	SD616	5	½
9/16	I	3 1/8	7/8	53/64	15/16	.31	SD618	5	9/16
5/8	II	3 1/8	7/8	7/8	1 3/16	.38	SD620	5	5/8
11/16	II	3 1/8	31/32	31/32	1 1/32	.41	SD622	5	11/16
3/4	II	3 1/8	1 1/16	1 1/16	1 17/64	.44	SD624	5	3/4
13/16	II	3 1/8	1 1/8	1 1/8	1 19/64	.47	SD626	5	13/16
7/8	II	3 1/8	1 3/16	1 3/16	1 19/64	.53	SD628	5	7/8
15/16	II	3 1/8	1 17/64	1 17/64	1 3/8	.56	SD630	5	15/16
1	II	3 1/8	1 11/32	1 11/32	1 3/8	.72	SD632	5	1
1 1/16	II	3 1/8	1 13/62	1 13/32	1 27/64	.78	SD634	5	1 1/16
1 1/8	II	3 1/8	1 1/2	1 1/2	1 27/64	.84	SD636	5	1 1/8

½" Drive Crowfoot Wrench and Hex Bit Sockets

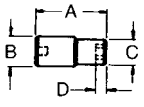




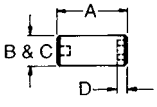


½" Drive Crowfoot Wrench — Flare Nut 12 Pt.

Wrench Opening	Diameter of Head	Thickness of Head	Width of Slot	Length of Centers	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B	C	D		Part No.	Part No.		
1⅛	1 43/64	29/32	53/32	1 5/32	.19	SC36	BLKSC36	5	1⅛
1 3/16	1 47/64	29/32	55/32	1 3/16	.19	SC38	BLKSC38	5	1 3/16
1¼	1 53/64	29/32	59/32	1 15/64	.19	SC40	BLKSC40	5	1¼
1 5/16	1 57/64	29/32	61/64	1 17/64	.19	SC42	BLKSC42	5	1 5/16
1⅜	1 31/32	31/32	1 3/64	1 5/16	.25	SC44	BLKSC44	5	1⅜
1 7/16	2 3/64	31/32	1 3/64	1 11/32	.25	SC46	BLKSC46	5	1 7/16
1½	2 7/64	31/32	1 3/64	1⅜	.25	SC48	BLKSC48	5	1½
1 9/16	2 11/64	31/32	1 7/64	1 27/64	.31	SC50	BLKSC50	5	1 9/16
1⅝	2 17/64	31/32	1 11/64	1 29/64	.31	SC52	BLKSC52	5	1⅝
1 11/16	2 23/64	1 1/32	1 19/64	1 33/64	.31	SC54	BLKSC54	5	1 11/16
1¾	2 27/64	1 1/32	1 19/64	1 35/64	.38	SC56	BLKSC56	5	1¾
1 13/16	2 33/64	1 1/32	1 19/64	1 19/32	.38	SC58	BLKSC58	5	1 13/16
1⅞	2 39/64	1 3/32	1 21/64	1 41/64	.44	SC60	BLKSC60	5	1⅞
1 15/16	2 43/64	1 3/32	1 23/64	1 43/64	.50	SC62	BLKSC62	5	1 15/16
2	2 49/64	1 3/32	1 35/64	1 23/32	.50	SC64	BLKSC64	5	2



TYPE I



TYPE II



½" Drive Hex Bit Sockets

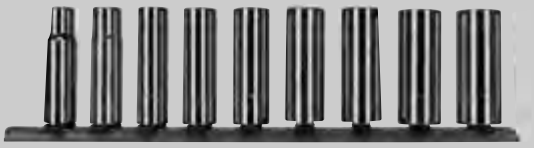
Bit Size	Type	Length	Drive End	Bit End	Bit Length	Wt. Ea. Lbs.	Chrome	Replacement Hex Bits	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Part No.			
¼	VI	3.31	.94	.66	1.81	.18	SA8	SA8B	5	¼
5/16	VI	3.31	.94	.66	1.81	.18	SA10	SA10B	5	5/16
⅜	VI	3.31	.94	.70	1.81	.25	SA12	SA12B	5	⅜
7/16	VI	3.31	.94	.75	1.81	.25	SA14	SA14B	5	7/16
½	VI	3.62	.94	.94	2.12	.35	SA16	SA16B	5	½
9/16	VI	3.62	1.01	1.01	2.12	.45	SA18	SA18B	5	9/16
⅝	VI	4.00	1.01	1.01	2.50	.50	SA20	SA20B	5	⅝
¾	VI	4.00	1.01	2.49	2.50	.65	SA24	SA24B	5	¾

½" Drive Socket & Sets – Chrome



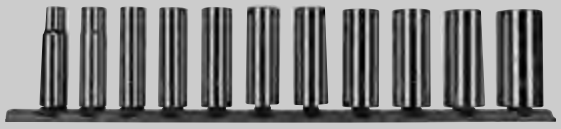
S7K

SA8..... ¼" Hex Bit Skt. ½" Dr.
SA10..... 5/16" Hex Bit Skt. ½" Dr.
SA12..... ⅜" Hex Bit Skt. ½" Dr.
SA14..... 7/16" Hex Bit Skt. ½" Dr.
SA16..... ½" Hex Bit Skt. ½" Dr.
SA18..... 9/16" Hex Bit Skt. ½" Dr.
SA20..... ⅝" Hex Bit Skt. ½" Dr.
208R..... TWIST LOCK CLIP RAIL



S9K

SD616..... ½" 6 pt. Deep Skt.
SD618..... 9/16" 6 pt. Deep Skt.
SD620 ..... ⅝" 6 pt. Deep Skt.
SD622 ..... 11/16" 6 pt. Deep Skt.
SD624 ..... ¾" 6 pt. Deep Skt.
SD626 ..... 13/16" 6 pt. Deep Skt.
SD628 ..... ⅞" 6 pt. Deep Skt.
SD630 ..... 15/16" 6 pt. Deep Skt.
SD632 ..... 1" 6 pt. Deep Skt.
213R..... TWIST LOCK CLIP RAIL



S11K

SD1216..... ½" 12 pt.Deep Skt.
SD1218..... 9/16" 12 pt.Deep Skt.
SD1220..... ⅝" 12 pt.Deep Skt.
SD1222..... 11/16" 12 pt.Deep Skt.
SD1224..... ¾" 12 pt.Deep Skt.
SD1226..... 13/16" 12 pt.Deep Skt.
SD1228..... ⅞" 12 pt. Deep Skt.
SD1230..... 15/16" 12 pt. Deep Skt.
SD1232..... 1" 12 pt. Deep Skt.
SD1234..... 1 1/16" 12 pt. Deep Skt.
SD1236..... 1⅛" 12 pt. Deep Skt.
213R..... TWIST LOCK CLIP RAIL



S12K

ST1214 ..... 7/16" 12 pt. Skt.
ST1216 ..... ½" 12 pt. Skt.
ST1218 ..... 9/16" 12 pt. Skt.
ST1220 ..... ⅝" 12 pt. Skt.
ST1222 ..... 11/16" 12 pt. Skt.
ST1224 ..... ¾" 12 pt. Skt.
ST1226 ..... 13/16" 12 pt. Skt.
ST1228 ..... ⅞" 12 pt. Skt.
ST1230 ..... 15/16" 12 pt. Skt.
ST1232 ..... 1" 12 pt. Skt.
SF51..... 10" Reversible Ratchet
S110P ..... 5" Extension
95 ..... METAL BOX



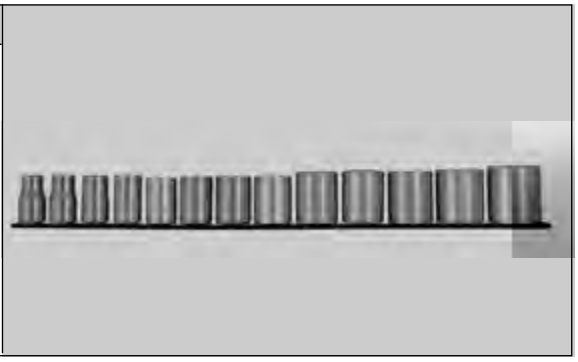
BC10K

BA4..... ⅛" Hex Bit Skt. ⅜" Dr.
BA55..... 5/32" Hex Bit Skt. ⅜" Dr.
BA6..... 3/16" Hex Bit Skt. ⅜" Dr.
BA7..... 7/32" Hex Bit Skt. ⅜" Dr.
BA8..... ¼" Hex Bit Skt. ⅜" Dr.
BA10..... 5/16" Hex Bit Skt. ⅜" Dr.
BA12 ..... ⅜" Hex Bit Skt. ⅜" Dr.
SA16 ..... ½" Hex Bit Skt. ½" Dr.
SA18 ..... 9/16" Hex Bit Skt. ½" Dr.
SA20 ..... ⅝" Hex Bit Skt. ½" Dr.
213R ..... TWIST LOCK CLIP RAIL

½" Drive Socket Sets – Chrome

S13K

ST1214 ..... 7/16" 12 pt. Skt.
ST1216 ..... ½" 12 pt. Skt.
ST1218 ..... 9/16" 12 pt. Skt.
ST1220 ..... 5/8" 12 pt. Skt.
ST1222 ..... 11/16" 12 pt. Skt.
ST1224 ..... ¾" 12 pt. Skt.
ST1226 ..... 13/16" 12 pt. Skt.
ST1228 ..... 7/8" 12 pt. Skt.
ST1230 ..... 15/16" 12 pt. Skt.
ST1232 ..... 1" 12 pt. Skt.
ST1234 ..... 1 1/16" 12 pt. Skt.
ST1236 ..... 1 1/8" 12 pt. Skt.
ST1240 ..... 1 1/4" 12 pt. Skt.
213R ..... TWIST LOCK CLIP RAIL



S15K

ST612 ..... 3/8" 6 pt. Std. Skt.
ST614 ..... 7/16" 6 pt. Std. Skt.
ST616 ..... ½" 6 pt. Std. Skt.
ST618 ..... 9/16" 6 pt. Std. Skt.
ST620 ..... 5/8" 6 pt. Std. Skt.
ST622 ..... 11/16" 6 pt. Std. Skt.
ST624 ..... ¾" 6 pt. Std. Skt.
ST626 ..... 13/16" 6 pt. Std. Skt.
ST628 ..... 7/8" 6 pt. Std. Skt.
ST630 ..... 15/16" 6 pt. Std. Skt.
ST632 ..... 1" 6 pt. Std. Skt.
ST634 ..... 1 1/16" 6 pt. Std. Skt.
ST636 ..... 1 1/8" 6 pt. Std. Skt.
ST638 ..... 1 3/16" 6 pt. Std. Skt.
ST640 ..... 1 1/4" 6 pt. Std. Skt.
213R ..... TWIST LOCK CLIP RAIL



SC15K

SC36 ..... 1 1/8" 12 pt. Crowfoot
SC38 ..... 1 3/16" 12 pt. Crowfoot
SC40 ..... 1 1/4" 12 pt. Crowfoot
SC42 ..... 1 5/16" 12 pt. Crowfoot
SC44 ..... 1 3/8" 12 pt. Crowfoot
SC46 ..... 1 7/16" 12 pt. Crowfoot
SC48 ..... 1 ½" 12 pt. Crowfoot
SC50 ..... 1 9/16" 12 pt. Crowfoot
SC52 ..... 1 5/8" 12 pt. Crowfoot
SC54 ..... 1 11/16" 12 pt. Crowfoot
SC56 ..... 1 ¾" 12 pt. Crowfoot
SC58 ..... 1 13/16" 12 pt. Crowfoot
SC60 ..... 1 7/8" 12 pt. Crowfoot
SC62 ..... 1 15/16" 12 pt. Crowfoot
SC64 ..... 2" 12 pt. Crowfoot
218R ..... TWIST LOCK CLIP RAIL



S16K

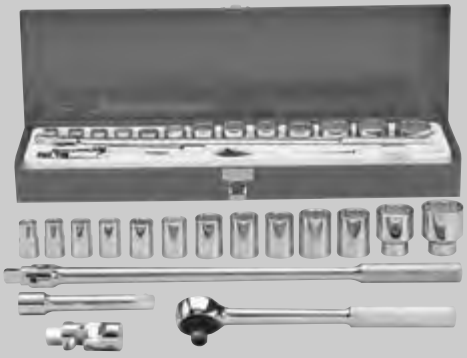
ST1214 ..... 7/16" 12 pt. Skt.
ST1216 ..... ½" 12 pt. Skt.
ST1218 ..... 9/16" 12 pt. Skt.
ST1220 ..... 5/8" 12 pt. Skt.
ST1222 ..... 11/16" 12 pt. Skt.
ST1224 ..... ¾" 12 pt. Skt.
ST1226 ..... 13/16" 12 pt. Skt.
ST1228 ..... 7/8" 12 pt. Skt.
ST1230 ..... 15/16" 12 pt. Skt.
ST1232 ..... 1" 12 pt. Skt.
ST1234 ..... 1 1/16" 12 pt. Skt.
ST1236 ..... 1 1/8" 12 pt. Skt.
ST1240 ..... 1 1/4" 12 pt. Skt.
SF51 ..... 10" Reversible Ratchet
S110P ..... 5" Extension
S140 ..... Universal Joint
95 ..... METAL BOX



½" Drive Socket Sets – Chrome

S17K

ST1214 ..... 7/16" 12 pt. Std. Skt.
ST1216 ..... ½" 12 pt. Std. Skt.
ST1218 ..... 9/16" 12 pt. Std. Skt.
ST1220 ..... 5/8" 12 pt. Std. Skt.
ST1222 ..... 11/16" 12 pt. Std. Skt.
ST1224 ..... ¾" 12 pt. Std. Skt.
ST1226 ..... 13/16" 12 pt. Std. Skt.
ST1228 ..... 7/8" 12 pt. Std. Skt.
ST1230 ..... 15/16" 12 pt. Std. Skt.
ST1232 ..... 1" 12 pt. Std. Skt.
ST1234 ..... 1 1/16" 12 pt. Std. Skt.
ST1236 ..... 1 1/8" 12 pt. Std. Skt.
ST1240 ..... 1¼" 12 pt. Std. Skt.
SF41 ..... 17" Flex Handle
SF51 ..... 10" Ratchet
S110P ..... 5" Extension
S140 ..... Universal Joint
99 ..... TOOL BOX



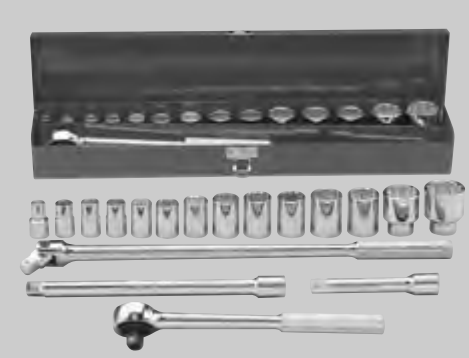
S18K

ST1214 ..... 7/16" 12 pt. Skt.
ST1216 ..... ½" 12 pt. Skt.
ST1218 ..... 9/16" 12 pt. Skt.
ST1220 ..... 5/8" 12 pt. Skt.
ST1222 ..... 11/16" 12 pt. Skt.
ST1224 ..... ¾" 12 pt. Skt.
ST1226 ..... 13/16" 12 pt. Skt.
ST1228 ..... 7/8" 12 pt. Skt.
ST1230 ..... 15/16" 12 pt. Skt.
ST1232 ..... 1" 12 pt. Skt.
S102P ..... 2" Extension
S110P ..... 5" Extension
S115P ..... 10" Extension
S140 ..... Universal Joint
SF41 ..... 17" Flexible Handle
SF51 ..... 10" Reversible Ratchet
SH129 ..... ½"F to 3/8"M Adaptor
SH130 ..... ½"F to ¾"M Adaptor
95 ..... TOOL BOX



S19K

ST612 ..... 3/8" 6 pt. Std. Skt.
ST614 ..... 7/16" 6 pt. Std. Skt.
ST616 ..... ½" 6 pt. Std. Skt.
ST618 ..... 9/16" 6 pt. Std. Skt.
ST620 ..... 5/8" 6 pt. Std. Skt.
ST622 ..... 11/16" 6 pt. Std. Skt.
ST624 ..... ¾" 6 pt. Std. Skt.
ST626 ..... 13/16" 6 pt. Std. Skt.
ST628 ..... 7/8" 6 pt. Std. Skt.
ST630 ..... 15/16" 6 pt. Std. Skt.
ST632 ..... 1" 6 pt. Std. Skt.
ST634 ..... 1 1/16" 6 pt. Std. Skt.
ST636 ..... 1 1/8" 6 pt. Std. Skt.
ST640 ..... 1¼" 6 pt. Std. Skt.
SF41 ..... 17" Flex Handle
SF51 ..... 10" Ratchet
S110P ..... 5" Extension
S115P ..... 10" Extension
95 ..... TOOL BOX



½" Drive Socket Sets – Chrome



S22K

ST1212 ..... ⅜" 12 pt. Std. Skt.
ST1214 ..... 7/16" 12 pt. Std. Skt.
ST1216 ..... ½" 12 pt. Std. Skt.
ST1218 ..... 9/16" 12 pt. Std. Skt.
ST1220 ..... ⅝" 12 pt. Std. Skt.
ST1222 ..... 11/16" 12 pt. Std. Skt.
ST1224 ..... ¾" 12 pt. Std. Skt.
ST1226 ..... 13/16" 12 pt. Std. Skt.
ST1228 ..... ⅞" 12 pt. Std. Skt.
ST1230 ..... 15/16" 12 pt. Std. Skt.
ST1232 ..... 1" 12 pt. Std. Skt.
ST1234 ..... 1 1/16" 12 pt. Skt.
ST1236 ..... 1⅛" 12 pt. Std. Skt.
ST1238 ..... 1 3/16" 12 pt. Std. Skt.
ST1240 ..... 1¼" 12 pt. Std. Skt.
SF41 ..... 17" Flex Handle
SF51 ..... 10" Ratchet
S102P ..... 2" Extension
S110P ..... 5" Extension
S115P ..... 10" Extension
S140 ..... Universal Joint
S15 ..... Drive Speeder
258 ..... CLIP RAIL
99 ..... TOOL BOX



S24K

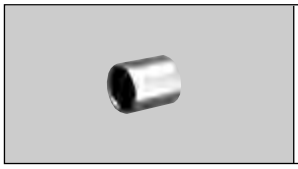
ST1214 ..... 7/16" 12 pt. Skt.
ST1216 ..... ½" 12 pt. Skt.
ST1218 ..... 9/16" 12 pt. Skt.
ST1220 ..... ⅝" 12 pt. Skt.
ST1222 ..... 11/16" 12 pt. Skt.
ST1224 ..... ¾" 12 pt. Skt.
ST1226 ..... 13/16" 12 pt. Skt.
ST1228 ..... ⅞" 12 pt. Skt.
ST1230 ..... 15/16" 12 pt. Skt.
ST1232 ..... 1" 12 pt. Skt.
ST1234 ..... 1 1/16" 12 pt. Skt.
ST1236 ..... 1⅛" 12 pt. Skt.
ST1240 ..... 1¼" 12 pt. Skt.
SD1216..... ½" 12 pt. Deep Skt.
SD1218..... 9/16" 12 pt. Deep Skt.
SD1220..... ⅝" 12 pt. Deep Skt.
SD1222..... 11/16" 12 pt. Deep Skt.
SD1224..... ¾" 12 pt. Deep Skt.
SD1226..... 13/16" 12 pt. Deep Skt.
SD1228..... ⅞" 12 pt. Deep Skt.
SD1230..... 15/16" 12 pt. Deep Skt.
SF41 ..... 17" Flexible Handle
SF51 ..... 10" Reversible Ratchet
S115P ..... 10" Extension
BX21..... TOOL BOX

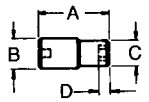


S36K — 32 PIECES

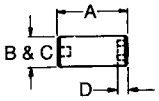
ST1212 ..... ⅜" 12 pt. Std. Skt.
ST1214 ..... 7/16" 12 pt. Std. Skt.
ST1216 ..... ½" 12 pt. Std. Skt.
ST1218 ..... 9/16" 12 pt. Std. Skt.
ST1220 ..... ⅝" 12 pt. Std. Skt.
ST1222 ..... 11/16" 12 pt. Std. Skt.
ST1224 ..... ¾" 12 pt. Std. Skt.
ST1226 ..... 13/16" 12 pt. Std. Skt.
ST1228 ..... ⅞" 12 pt. Std. Skt.
ST1230 ..... 15/16" 12 pt. Std. Skt.
ST1232 ..... 1" 12 pt. Std. Skt.
ST1234 ..... 1 1/16" 12 pt. Std. Skt.
ST1236 ..... 1⅛" 12 pt. Std. Skt.
ST1240 ..... 1¼" 12 pt. Std. Skt.
SD1216..... ½" 12 pt. Deep Skt.
SD1218..... 9/16" 12 pt. Deep Skt.
SD1220..... ⅝" 12 pt. Deep Skt.
SD1222..... 11/16" 12 pt. Deep Skt.
SD1224..... ¾" 12 pt. Deep Skt.
SD1226..... 13/16" 12 pt. Deep Skt.
SD1228..... ⅞" 12 pt. Deep Skt.
SD1230..... 15/16" 12 pt. Deep Skt.
SD1232..... 1" 12 pt. Deep Skt.
SD1234..... 1 1/16" 12 pt. Deep Skt.
SD1236..... 1⅛" 12 pt. Deep Skt.
S15 ..... 17½" Speed Handle
S110P ..... 5" Extension
S115P ..... 10" Extension
S140 ..... Universal Joint
SF41 ..... 17" Flex Handle
SF51 ..... 10" Reversible Ratchet
SH130..... ½"F × ¾"M Adaptor
BX21..... TOOL BOX

½" Drive Metric Socket Wrenches – Chrome

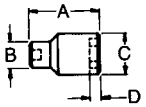




TYPE I



TYPE II



TYPE III



½" Square Drive 12 Point Standard — Metric

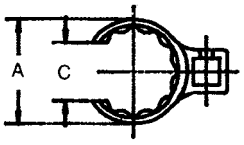
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty.	Opening
		A	B	C	D		Part No.		
9 mm	I	1 15/32	13/16	33/64	7/32	.09	STM1209	5	9 mm
10 mm	I	1 15/32	13/16	37/64	15/64	.09	STM1210	5	10 mm
11 mm	I	1 15/32	13/16	41/64	9/32	.09	STM1211	5	11 mm
12 mm	I	1 15/32	13/16	11/16	5/16	.10	STM1212	5	12 mm
13 mm	I	1 15/32	13/16	47/64	5/16	.10	STM1213	5	13 mm
14 mm	II	1 15/32	—	13/16	11/32	.12	STM1214	5	14 mm
15 mm	II	1 15/32	—	55/64	11/32	.13	STM1215	5	15 mm
16 mm	II	1 15/32	—	7/8	3/8	.13	STM1216	5	16 mm
17 mm	II	1 15/32	—	15/16	3/8	.17	STM1217	5	17 mm
18 mm	II	1 15/32	—	1	13/32	.14	STM1218	5	18 mm
19 mm	II	1 15/32	—	1 1/16	7/16	.19	STM1219	5	19 mm
20 mm	II	1 1/2	—	1 3/32	29/64	.17	STM1220	5	20 mm
21 mm	II	1 9/16	—	1 9/64	15/32	.24	STM1221	5	21 mm
22 mm	II	1 5/8	—	1 11/64	1/2	.24	STM1222	5	22 mm
23 mm	II	1 5/8	—	1 7/32	33/64	.25	STM1223	5	23 mm
24 mm	II	1 5/8	—	1 1/4	35/64	.29	STM1224	5	24 mm
25 mm	II	1 11/16	—	1 5/16	9/16	.29	STM1225	5	25 mm
26 mm	III	1 3/4	1 3/32	1 3/8	19/32	.30	STM1226	5	26 mm
27 mm	III	1 3/4	1 3/32	1 13/32	5/8	.30	STM1227	5	27 mm
30 mm	III	1 7/8	1 1/8	1 37/64	21/32	.40	STM1230	5	30 mm
32 mm	III	1 59/64	1 1/8	1 21/32	3/4	.44	STM1232	5	32 mm
36 mm	III	2	1 23/64	1 61/64	29/32	.46	STM1236	5	36 mm

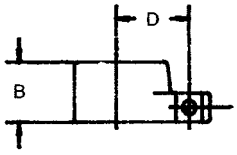
½" Square Drive 12 Point Deep — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty.	Opening
		A	B	C	D		Part No.		
10 mm	I	79.5 mm	22.1 mm	15.2 mm	16.0 mm	.22	SMD1210	5	10 mm
11 mm	I	79.5 mm	22.1 mm	18.3 mm	17.0 mm	.22	SMD1211	5	11 mm
12 mm	I	79.5 mm	22.1 mm	18.8 mm	18.0 mm	.22	SMD1212	5	12 mm
13 mm	I	79.5 mm	22.1 mm	19.3 mm	20.1 mm	.26	SMD1213	5	13 mm
14 mm	I	79.5 mm	22.1 mm	21.8 mm	23.9 mm	.26	SMD1214	5	14 mm
15 mm	II	79.5 mm	21.8 mm	21.8 mm	26.9 mm	.26	SMD1215	5	15 mm
16 mm	II	79.5 mm	22.1 mm	22.1 mm	30.0 mm	.32	SMD1216	5	16 mm
17 mm	II	79.5 mm	24.4 mm	24.4 mm	31.0 mm	.32	SMD1217	5	17 mm
18 mm	II	79.5 mm	25.4 mm	25.4 mm	31.0 mm	.33	SMD1218	5	18 mm
19 mm	II	79.5 mm	26.9 mm	26.9 mm	33.0 mm	.38	SMD1219	5	19 mm
20 mm	II	79.5 mm	27.9 mm	27.9 mm	33.0 mm	.41	SMD1220	5	20 mm
21 mm	II	79.5 mm	28.4 mm	28.4 mm	33.0 mm	.41	SMD1221	5	21 mm
22 mm	II	79.5 mm	30.2 mm	30.2 mm	33.0 mm	.46	SMD1222	5	22 mm
23 mm	II	79.5 mm	31.0 mm	31.0 mm	33.0 mm	.51	SMD1223	5	23 mm
24 mm	II	79.5 mm	32.0 mm	32.0 mm	35.1 mm	.57	SMD1224	5	24 mm
25 mm	II	79.5 mm	33.3 mm	33.3 mm	35.1 mm	.70	SMD1225	5	25 mm
26 mm	II	79.5 mm	34.0 mm	34.0 mm	35.1 mm	.74	SMD1226	5	26 mm
27 mm	II	79.5 mm	35.8 mm	35.8 mm	35.1 mm	.78	SMD1227	5	27 mm

½" Drive Metric Socket Wrenches – Chrome



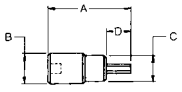




½" Drive Metric Crowfoot Wrench — Flare Nut 12 Pt.

Wrench Opening	Diameter of Head	Thickness of Head	Width of Slot	Length of Centers	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Wrench Opening
	A	B	C	D		Part No.		
28 mm	$1\frac{43}{64}$	$\frac{29}{32}$	$\frac{53}{64}$	$1\frac{5}{32}$	.19	SC28MM	5	28 mm
30 mm	$1\frac{47}{64}$	$\frac{29}{32}$	$\frac{53}{64}$	$1\frac{3}{16}$	.19	SC30MM	5	30 mm
32 mm	$1\frac{57}{64}$	$\frac{29}{32}$	$\frac{61}{64}$	$1\frac{17}{64}$	.19	SC32MM	5	32 mm
34 mm	$1\frac{31}{32}$	$\frac{31}{32}$	$1\frac{3}{64}$	$1\frac{5}{16}$	.19	SC34MM	5	34 mm
36 mm	$2\frac{3}{64}$	$\frac{31}{32}$	$1\frac{3}{64}$	$1\frac{11}{32}$	.19	SC36MM	5	36 mm
38 mm	$2\frac{7}{64}$	$\frac{31}{32}$	$1\frac{7}{64}$	$1\frac{3}{8}$	.19	SC38MM	5	38 mm
40 mm	$2\frac{17}{64}$	$\frac{31}{32}$	$1\frac{11}{64}$	$1\frac{29}{64}$	.19	SC40MM	5	40 mm
41 mm	$2\frac{17}{64}$	$\frac{31}{32}$	$1\frac{11}{64}$	$1\frac{29}{64}$	.19	SC41MM	5	41 mm
46 mm	$2\frac{33}{64}$	$1\frac{1}{32}$	$1\frac{19}{64}$	$1\frac{19}{32}$	.25	SC46MM	5	46 mm
50 mm	$2\frac{49}{64}$	$1\frac{3}{32}$	$1\frac{35}{64}$	$1\frac{23}{32}$	.25	SC50MM	5	50 mm





TYPE VI

½" Drive Hex Bit Sockets

Bit Size	Type	Length	Drive End	Opening End	Bit Length	Wt. Ea. Lbs.	Chrome	Replacement Hex Bits	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Part No.			
1/2" DR	VI	6MM	83.5mm	23.74mm	45.5mm	0.2	SA6MM	SA6MMB	5	6mm
1/2" DR	VI	8MM	83.5mm	23.74mm	45.5mm	0.2	SA8MM	SA8MMB	5	8mm
1/2" DR	VI	10MM	83.5mm	23.74mm	45.5mm	0.25	SA10MM	SA10MMB	5	10mm
1/2" DR	VI	12MM	92.5mm	25.75mm	54.5mm	0.35	SA12MM	SA12MMB	5	12mm
1/2" DR	VI	14MM	92.5mm	25.75mm	54.5mm	0.4	SA14MM	SA14MMB	5	14mm
1/2" DR	VI	17MM	100mm	27.75mm	62.7mm	0.6	SA17MM	SA17MMB	5	17mm
1/2" DR	VI	19MM	100mm	27.75mm	62.7mm	0.65	SA19MM	SA19MMB	5	19mm

½" Drive Metric Sockets & Sets – Chrome

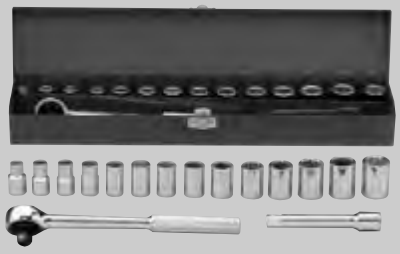
MS10K

SMD1216..... 16 mm 12 pt. Deep Skt.
SMD1217..... 17 mm 12 pt. Deep Skt.
SMD1218..... 18 mm 12 pt. Deep Skt.
SMD1219..... 19 mm 12 pt. Deep Skt.
SMD1220..... 20 mm 12 pt. Deep Skt.
SMD1221..... 21 mm 12 pt. Deep Skt.
SMD1222..... 22 mm 12 pt. Deep Skt.
SMD1224..... 24 mm 12 pt. Deep Skt.
SMD1225..... 25 mm 12 pt. Deep Skt.
SMD1226..... 26 mm 12 pt. Deep Skt.
213B ..... TWIST LOCK CLIP RAIL



MS16K

STM1210 ..... 10 mm 12 pt. Std. Skt.
STM1211 ..... 11 mm 12 pt. Std. Skt.
STM1212 ..... 12 mm 12 pt. Std. Skt.
STM1213 ..... 13 mm 12 pt. Std. Skt.
STM1214 ..... 14 mm 12 pt. Std. Skt.
STM1215 ..... 15 mm 12 pt. Std. Skt.
STM1216 ..... 16 mm 12 pt. Std. Skt.
STM1217 ..... 17 mm 12 pt. Std. Skt.
STM1218 ..... 18 mm 12 pt. Std. Skt.
STM1219 ..... 19 mm 12 pt. Std. Skt.
STM1220 ..... 20 mm 12 pt. Std. Skt.
STM1221 ..... 21 mm 12 pt. Std. Skt.
STM1222 ..... 22 mm 12 pt. Std. Skt.
STM1223 ..... 23 mm 12 pt. Std. Skt.
SF51 ..... 10" Ratchet
S110P ..... 5" Extension
95 ..... TOOL BOX



MS17K

METRIC

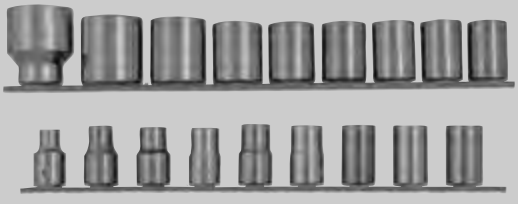
STM1210 ..... 10 mm 12 pt. Skt.
STM1211 ..... 11 mm 12 pt. Skt.
STM1212 ..... 12 mm 12 pt. Skt.
STM1213 ..... 13 mm 12 pt. Skt.
STM1214 ..... 14 mm 12 pt. Skt.
STM1215 ..... 15 mm 12 pt. Skt.
STM1216 ..... 16 mm 12 pt. Skt.
STM1217 ..... 17 mm 12 pt. Skt.
STM1218 ..... 18 mm 12 pt. Skt.
STM1219 ..... 19 mm 12 pt. Skt.
STM1220 ..... 20 mm 12 pt. Skt.
STM1221 ..... 21 mm 12 pt. Skt.
STM1222 ..... 22 mm 12 pt. Skt.
STM1224 ..... 24 mm 12 pt. Skt.
SF51 ..... 10" Reversible Ratchet
SF41 ..... 17" Flexible Handle
S110P ..... 5" Extension
95 ..... TOOL BOX



MS18K

METRIC

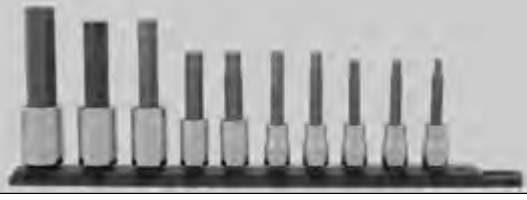
STM1209 ..... 9 mm 12 pt. Skt.
STM1210 ..... 10 mm 12 pt. Skt.
STM1211 ..... 11 mm 12 pt. Skt.
STM1212 ..... 12 mm 12 pt. Skt.
STM1213 ..... 13 mm 12 pt. Skt.
STM1214 ..... 14 mm 12 pt. Skt.
STM1215 ..... 15 mm 12 pt. Skt.
STM1216 ..... 16 mm 12 pt. Skt.
STM1217 ..... 17 mm 12 pt. Skt.
STM1218 ..... 18 mm 12 pt. Skt.
STM1219 ..... 19 mm 12 pt. Skt.
STM1220 ..... 20 mm 12 pt. Skt.
STM1221 ..... 21 mm 12 pt. Skt.
STM1222 ..... 22 mm 12 pt. Skt.
STM1224 ..... 24 mm 12 pt. Skt.
STM1227 ..... 27 mm 12 pt. Skt.
STM1230 ..... 30 mm 12 pt. Skt.
STM1232 ..... 32 mm 12 pt. Skt.
218B ..... TWIST LOCK CLIP RAIL



BC10KM

METRIC

BA4MM..... 4 mm Hex Bit Skt. ⅜" Dr.
BA5MM..... 5 mm Hex Bit Skt. ⅜" Dr.
BA6MM..... 6 mm Hex Bit Skt. ⅜" Dr.
BA7MM..... 7 mm Hex Bit Skt. ⅜" Dr.
BA8MM..... 8 mm Hex Bit Skt. ⅜" Dr.
BA9MM..... 9 mm Hex Bit Skt. ⅜" Dr.
BA10MM .. 10 mm Hex Bit Skt. ⅜" Dr.
SA12MM .. 12 mm Hex Bit Skt. ½" Dr.
SA14MM .. 14 mm Hex Bit Skt. ½" Dr.
SA17MM .. 17 mm Hex Bit Skt. ½" Dr.
213B..... TWIST LOCK CLIP RAIL



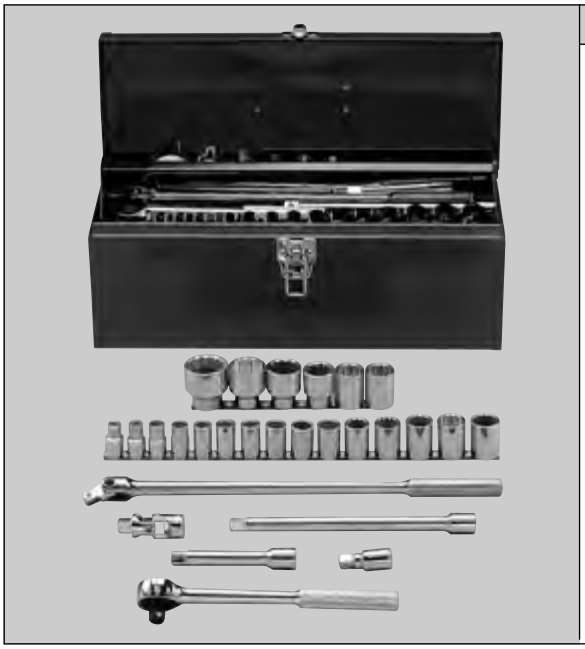
SC10KM

METRIC

SC28MM.. 28 mm 12 Pt. Crowfoot
SC30MM.. 30 mm 12 Pt. Crowfoot
SC32MM.. 32 mm 12 Pt. Crowfoot
SC34MM.. 34 mm 12 Pt. Crowfoot
SC36MM.. 36 mm 12 Pt. Crowfoot
SC38MM.. 38 mm 12 Pt. Crowfoot
SC40MM.. 40 mm 12 Pt. Crowfoot
SC41MM.. 41 mm 12 Pt. Crowfoot
SC46MM.. 46 mm 12 Pt. Crowfoot
SC50MM.. 50 mm 12 Pt. Crowfoot
208B.....TWIST LOCK CLIP RAIL

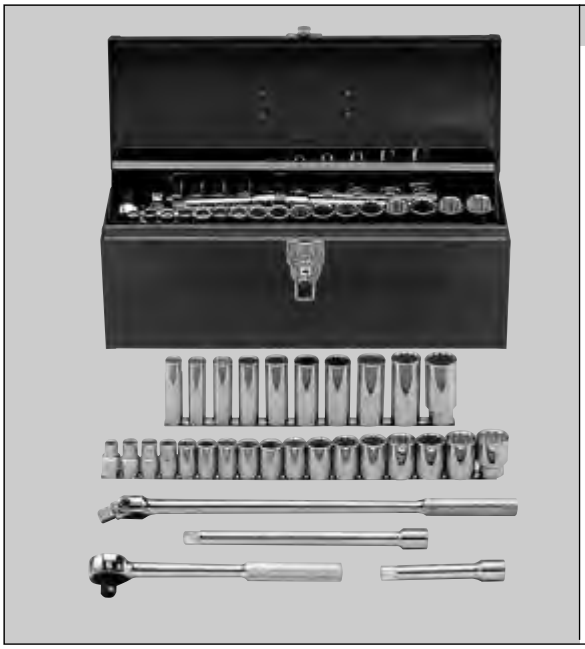


½" Drive Metric Sockets & Sets – Chrome



MS27K

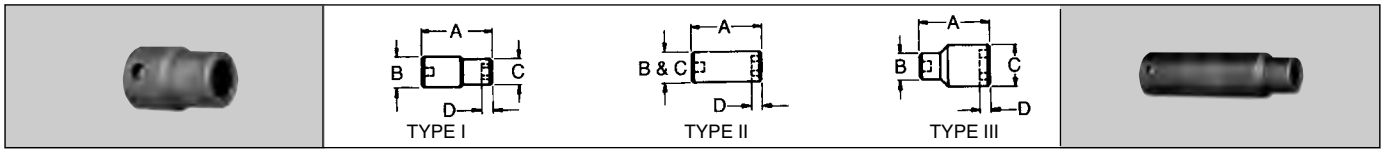
STM1210	10 mm 12 pt. Std. Skt.	STM1224	24 mm 12 pt. Std. Skt.
STM1211	11 mm 12 pt. Std. Skt.	STM1225	25 mm 12 pt. Std. Skt.
STM1212	12 mm 12 pt. Std. Skt.	STM1226	26 mm 12 pt. Std. Skt.
STM1213	13 mm 12 pt. Std. Skt.	STM1227	27 mm 12 pt. Std. Skt.
STM1214	14 mm 12 pt. Std. Skt.	STM1230	30 mm 12 pt. Std. Skt.
STM1215	15 mm 12 pt. Std. Skt.	STM1232	32 mm 12 pt. Std. Skt.
STM1216	16 mm 12 pt. Std. Skt.	STM1236	36 mm 12 pt. Std. Skt.
STM1217	17 mm 12 pt. Std. Skt.	SF41	17" Flex Handle
STM1218	18 mm 12 pt. Std. Skt.	SF51	10" Ratchet
STM1219	19 mm 12 pt. Std. Skt.	S102P	2" Extension
STM1220	20 mm 12 pt. Std. Skt.	S110P	5" Extension
STM1221	21 mm 12 pt. Std. Skt.	S115P	10" Extension
STM1222	22 mm 12 pt. Std. Skt.	S140	Universal Joint
STM1223	23 mm 12 pt. Std. Skt.	248	CLIP RAIL
		258	CLIP RAIL
		BX21	TOOL BOX



MS31K

STM1210	10 mm 12 pt. Std. Skt.	SMD1216	16 mm 12 pt. Deep Skt.
STM1211	11 mm 12 pt. Std. Skt.	SMD1217	17 mm 12 pt. Deep Skt.
STM1212	12 mm 12 pt. Std. Skt.	SMD1218	18 mm 12 pt. Deep Skt.
STM1213	13 mm 12 pt. Std. Skt.	SMD1219	19 mm 12 pt. Deep Skt.
STM1214	14 mm 12 pt. Std. Skt.	SMD1220	20 mm 12 pt. Deep Skt.
STM1215	15 mm 12 pt. Std. Skt.	SMD1221	21 mm 12 pt. Deep Skt.
STM1216	16 mm 12 pt. Std. Skt.	SMD1222	22 mm 12 pt. Deep Skt.
STM1217	17 mm 12 pt. Std. Skt.	SMD1224	24 mm 12 pt. Deep Skt.
STM1218	18 mm 12 pt. Std. Skt.	SMD1225	25 mm 12 pt. Deep Skt.
STM1219	19 mm 12 pt. Std. Skt.	SMD1226	26 mm 12 pt. Deep Skt.
STM1220	20 mm 12 pt. Std. Skt.	S110P	5" Extension
STM1221	21 mm 12 pt. Std. Skt.	S115P	10" Extension
STM1222	22 mm 12 pt. Std. Skt.	SF41	17" Flexible Handle
STM1223	23 mm 12 pt. Std. Skt.	SF51	10" Reversible Ratchet
STM1224	24 mm 12 pt. Std. Skt.	258	CLIP RAIL
STM1225	25 mm 12 pt. Std. Skt.	261	CLIP RAIL
STM1226	26 mm 12 pt. Std. Skt.	BX21	TOOL BOX

½" Drive
Power/Impact



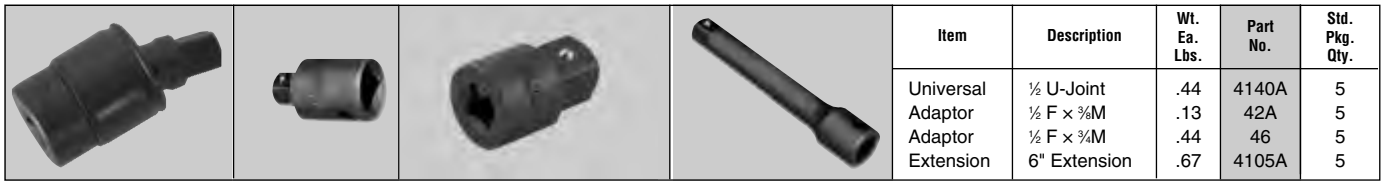
Martin Heavy Duty Power Impact Sockets are Specially Designed for Use with All Types of Power Wrenches. All Sockets are Hot Forged from the Finest Alloy Steels for Maximum Strength and Durability. Heat Treated by Carefully Controlled Methods, the Sockets are Accurately Broached in 6 Point Openings. All Power Impact Sockets are Finished in Rust Resistant Black Oxide.

½" Square Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Qty.	Opening
		A	B	C	D		Part No.		
3/8	I	1 15/32	15/16	21/32	5/32	.14	4612	5	3/8
7/16	I	1 15/32	15/16	45/64	7/32	.16	4614	5	7/16
1/2	I	1 15/32	15/16	25/32	7/64	.18	4616	5	1/2
9/16	I	1 15/32	15/16	55/64	21/64	.17	4618	5	9/16
5/8	II	1 15/32	—	15/16	3/8	.20	4620	5	5/8
11/16	II	1 1/2	—	1	3/8	.23	4622	5	11/16
3/4	II	1 1/2	—	1 5/64	7/16	.23	4624	5	3/4
13/16	II	1 9/16	—	1 5/32	29/64	.25	4626	5	13/16
7/8	II	1 5/8	—	1 7/32	1/2	.31	4628	5	7/8
15/16	II	1 5/8	—	1 19/64	35/64	.33	4630	5	15/16
1	III	1 11/16	1 3/8	1 23/64	35/64	.45	4632	5	1
1 1/16	III	1 3/4	1 3/8	1 7/16	5/8	.50	4634	5	1 1/16
1 1/8	III	1 13/16	1 3/8	1 1/2	21/32	.60	4636	5	1 1/8
1 3/16	III	1 7/8	1 3/8	1 11/16	21/32	.65	4638	5	1 3/16
1 1/4	III	1 59/64	1 3/8	1 3/4	3/4	.70	4640	5	1 1/4
1 5/16	III	2	1 3/8	2 1/64	1 1/16	.80	4642	5	1 5/16
1 3/8	III	2 1/16	1 17/32	2 1/16	1 1/8	.95	4644	5	1 3/8
1 7/16	III	2 1/8	1 17/32	2 5/32	1 5/32	1.00	4646	5	1 7/16
1 1/2	III	2 3/16	1 17/32	2 15/64	1 3/16	1.15	4648	5	1 1/2

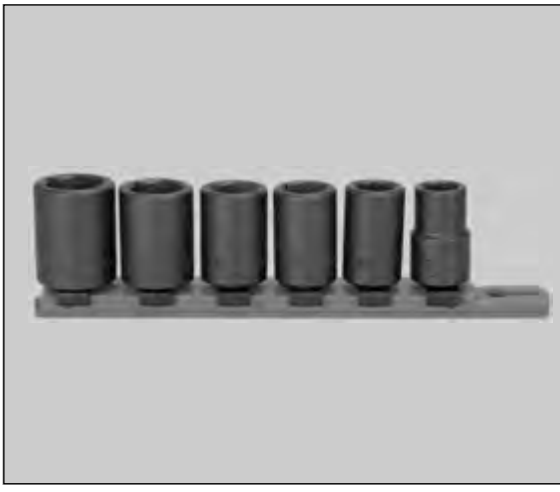
½" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Qty.	Opening
		A	B	C	D		Part No.		
3/8	I	3 1/4	15/16	5/8	5/32	.42	14612	5	3/8
7/16	I	3 1/4	15/16	45/64	7/32	.42	14614	5	7/16
1/2	I	3 1/4	15/16	25/32	17/64	.43	14616	5	1/2
9/16	I	3 1/4	15/16	55/64	21/64	.43	14618	5	9/16
5/8	II	3 1/4	—	15/16	3/8	.40	14620	5	5/8
11/16	II	3 1/4	—	1	2 35/64	.37	14622	5	11/16
3/4	II	3 1/4	—	1 5/64	2 1/2	.45	14624	5	3/4
13/16	II	3 1/4	—	1 5/32	2 1/2	.49	14626	5	13/16
7/8	II	3 1/4	—	1 7/32	2 3/4	.54	14628	5	7/8
15/16	II	3 1/4	—	1 19/64	2 27/64	.62	14630	5	15/16
1	III	3 1/2	1 3/32	1 23/64	2 45/64	.57	14632	5	1
1 1/16	III	3 1/2	1 7/64	1 7/16	2 21/32	.62	14634	5	1 1/16
1 1/8	III	3 1/2	1 7/64	1 5/8	2 5/8	.62	14636	5	1 1/8
1 3/16	III	3 1/2	1 7/64	1 3/4	2 19/32	.73	14638	5	1 3/16
1 1/4	III	3 1/2	1 7/64	1 41/64	2 19/32	.73	14640	5	1 1/4
1 5/16	III	3 5/8	1 7/64	2 1/64	2 9/16	.85	14642	5	1 5/16
1 3/8	III	3 5/8	1 17/32	2 1/16	2 35/64	.89	14644	5	1 3/8
1 7/16	III	3 5/8	1 17/32	2 5/32	2 1/2	.9	14646	5	1 7/16
1 1/2	III	3 5/8	1 17/32	2 15/64	2 1/2	1.0	14648	5	1 1/2



Item	Description	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
Universal	½ U-Joint	.44	4140A	5
Adaptor	½ F × ⅜M	.13	42A	5
Adaptor	½ F × ¾M	.44	46	5
Extension	6" Extension	.67	4105A	5

½" Drive Power/Impact Sets



IS6K

4616..... ½" 6 pt. Skt.
4618..... 9/16" 6 pt. Skt.
4620 ..... 5/8" 6 pt. Skt.
4622 ..... 11/16" 6 pt. Skt.
4624 ..... ¾" 6 pt. Skt.
4626 ..... 13/16" 6 pt. Skt.
208R..... TWIST LOCK CLIP RAIL



IS6KD

14616..... ½" 6 pt. Deep Skt.
14618..... 9/16" 6 pt. Deep Skt.
14620..... 5/8" 6 pt. Deep Skt.
14622..... 11/16" 6 pt. Deep Skt.
14624..... ¾" 6 pt. Deep Skt.
14626..... 13/16" 6 pt. Deep Skt.
208R..... TWIST LOCK CLIP RAIL

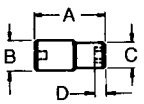


IS10KD

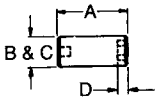
14614..... 7/16" 6 pt. Deep Skt.
14616..... ½" 6 pt. Deep Skt.
14618..... 9/16" 6 pt. Deep Skt.
14620..... 5/8" 6 pt. Deep Skt.
14622..... 11/16" 6 pt. Deep Skt.
14624..... ¾" 6 pt. Deep Skt.
14626..... 13/16" 6 pt. Deep Skt.
14628..... 7/8" 6 pt. Deep Skt.
14630..... 15/16" 6 pt. Deep Skt.
14632..... 1" 6 pt. Deep Skt.
213R..... TWIST LOCK CLIP RAIL

½" Drive Metric Socket Sets
Power/Impact

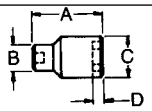




TYPE I



TYPE II



TYPE III

½" Square Drive 6 Point Standard — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Qty.	Opening
		A	B	C	D		Part No.		
13 mm	I	38.0 mm	24.7 mm	18.9 mm	8.0 mm	.17	4M613	5	13 mm
14 mm	I	38.0 mm	24.7 mm	20.3 mm	9.0 mm	.17	4M614	5	14 mm
15 mm	II	38.0 mm	24.7 mm	24.7 mm	9.0 mm	.17	4M615	5	15 mm
16 mm	II	38.0 mm	24.7 mm	24.7 mm	10.0 mm	.17	4M616	5	16 mm
17 mm	II	38.0 mm	26.3 mm	26.3 mm	11.0 mm	.17	4M617	5	17 mm
18 mm	II	38.0 mm	27.2 mm	27.2 mm	12.0 mm	.17	4M618	5	18 mm
19 mm	II	41.0 mm	29.5 mm	29.5 mm	12.0 mm	.09	4M619	5	19 mm
21 mm	II	41.0 mm	32.0 mm	32.0 mm	13.0 mm	.09	4M621	5	21 mm
22 mm	II	41.0 mm	33.0 mm	33.0 mm	14.0 mm	.09	4M622	5	22 mm
24 mm	II	41.0 mm	35.5 mm	35.5 mm	14.5 mm	.09	4M624	5	24 mm
27 mm	II	41.0 mm	39.6 mm	39.6 mm	14.5 mm	.09	4M627	5	27 mm

MIS6K

4M613..... 13 mm 6 pt. Std. Skt.
4M614..... 14 mm 6 pt. Std. Skt.
4M615..... 15 mm 6 pt. Std. Skt.
4M616..... 16 mm 6 pt. Std. Skt.
4M617..... 17 mm 6 pt. Std. Skt.
4M618..... 18 mm 6 pt. Std. Skt.
208B..... TWIST LOCK CLIP RAIL



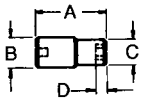
MIS11K

4M613..... 13 mm 6 pt. Std. Skt.
4M614..... 14 mm 6 pt. Std. Skt.
4M615..... 15 mm 6 pt. Std. Skt.
4M616..... 16 mm 6 pt. Std. Skt.
4M617..... 17 mm 6 pt. Std. Skt.
4M618..... 18 mm 6 pt. Std. Skt.
4M619..... 19 mm 6 pt. Std. Skt.
4M621 ..... 21 mm 6 pt. Std. Skt.
4M622 ..... 22 mm 6 pt. Std. Skt.
4M624 ..... 24 mm 6 pt. Std. Skt.
4M627 ..... 27 mm 6 pt. Std. Skt.
213B..... TWIST LOCK CLIP RAIL

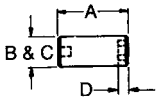


¾" Drive Sockets & Attachments – Chrome

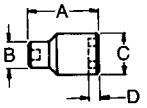




TYPE I



TYPE II



TYPE III

¾" Square Drive 12 Point Standard Chrome

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Qty.	Opening
		A	B	C	D		Part No.		
¾	I	2	1 19/64	1 13/64	½	.40	H1224	5	¾
13/16	II	2	—	1 19/64	½	.41	H1226	5	13/16
⅞	II	2	—	1 11/32	½	.35	H1228	5	⅞
15/16	II	2	—	1⅜	35/64	.43	H1230	5	15/16
1	II	2 1/16	—	1 7/16	35/64	.50	H1232	5	1
1 1/16	III	2 1/16	1 7/16	1 9/16	⅝	.57	H1234	5	1 1/16
1⅛	III	2⅛	1 7/16	1⅝	21/32	.65	H1236	5	1⅛
1 3/16	III	2 1/16	1 7/16	1 11/16	21/32	.59	H1238	5	1 3/16
1¼	III	2 3/16	1 9/16	1 13/16	¾	.78	H1240	5	1¼
1 5/16	III	2¼	1 9/16	1⅞	49/64	.79	H1242	3	1 5/16
1⅜	III	2¼	1 9/16	1⅞	25/32	.69	H1244	3	1⅜
1 7/16	III	2 5/16	1 9/16	2 1/64	⅞	.87	H1246	3	1 7/16
1½	III	2 5/16	1 35/64	2 3/32	55/64	.94	H1248	3	1½
1 9/16	III	2 5/16	1 19/32	2 3/32	55/64	.91	H1250	3	1 9/16
1⅝	III	2⅜	1 19/32	2 5/32	1	.98	H1252	3	1⅝
1 11/16	III	2 7/16	1⅝	2 7/32	1	1.00	H1254	3	1 11/16
1¾	III	2½	1 21/32	2 5/16	1 3/32	1.23	H1256	3	1¾
1 13/16	III	2 13/16	1¾	2⅜	1⅛	1.31	H1258	3	1 13/16
1⅞	III	2⅞	1¾	2 15/32	1⅛	1.33	H1260	3	1⅞
2	III	3	1¾	2 39/64	1 7/32	1.54	H1264	1	2
2 1/16	III	3 1/32	1 15/16	2 23/32	1 7/32	2.13	H1266	1	2 1/16
2⅛	III	3 1/16	1 15/16	2 55/64	1 7/32	2.19	H1268	1	2⅛
2 3/16	III	3 1/16	1 15/16	2 55/64	1⅜	2.00	H1270	1	2 3/16
2¼	III	3 3/16	2	3 1/16	1⅜	2.50	H1272	1	2¼
2⅜	III	3¼	2	3 1/16	1⅜	2.16	H1276	1	2⅜

Item	Description	Wt. Ea. Lbs.	Chrome Part No.	Black Part No.	Std. Pkg. Qty.	¾" ATTACHMENTS
Flex Hdle.	21⅝" Flexible Hdle.	5.63	H41A		1	
Flex Hdle.	21⅝" Flexible Hdle.	5.63		BLKH41A	1	
Ratchet Repair Kit	20" Rev. Ratchet Ratchet Repair Kit	5.38 1.00	H51 H51RU		1 1	
Ratchet Repair Kit	24" Rev. Ratchet Ratchet Repair Kit	5.38 1.00		BLKH51 BLKH51RU	1 1	
Sliding T	17½" Sliding Hdl.	2.45	H20A		1	
Extension	3½" Extension	1.27	H104		1	
Extension	8" Extension	2.25	H110		1	
Extension	16" Extension	3.13	H115		1	
Universal	U-Joint	1.08	H140		1	

¾" Drive Socket Sets – Chrome

H12K

H1228 ..... ⅞" 12 pt. Skt.
H1230 ..... 15⁄16" 12 pt. Skt.
H1234 ..... 1 1⁄16" 12 pt. Skt.
H1236 ..... 1⅛" 12 pt. Skt.
H1240 ..... 1¼" 12 pt. Skt.
H1242 ..... 1 5⁄16" 12 pt. Skt.
H1244 ..... 1⅜" 12 pt. Skt.
H1246 ..... 1 7⁄16" 12 pt. Skt.
H1248 ..... 1½" 12 pt. Skt.
H1252 ..... 1⅝" 12 pt. Skt.
H51 ..... Rev. Ratchet
H110 ..... 8" Extension
96A ..... METAL BOX



H17K

H1228 ..... ⅞" 12 pt. Skt.
H1230 ..... 15⁄16" 12 pt. Skt.
H1234 ..... 1 1⁄16" 12 pt. Skt.
H1236 ..... 1⅛" 12 pt. Skt.
H1240 ..... 1¼" 12 pt. Skt.
H1242 ..... 1 5⁄16" 12 pt. Skt.
H1244 ..... 1⅜" 12 pt. Skt.
H1246 ..... 1 7⁄16" 12 pt. Skt.
H1248 ..... 1½" 12 pt. Skt.
H1252 ..... 1⅝" 12 pt. Skt.
H1256 ..... 1¾" 12 pt. Skt.
H1258 ..... 1 13⁄16" 12 pt. Skt.
H1260 ..... 1⅞" 12 pt. Skt.
H1264 ..... 2" 12 pt. Skt.
H51 ..... Rev. Ratchet
H110 ..... 8" Extension
H115 ..... 16" Extension
237 ..... METAL BOX



H20K

H51 ..... Rev. Ratchet
H104 ..... 3½" Extension
H110 ..... 8" Extension
H41A ..... 21⅝" Flexible Hdle.
H1228 ..... ⅞" 12 pt. Skt.
H1230 ..... 15⁄16" 12 pt. Skt.
H1232 ..... 1" 12 pt. Skt.
H1234 ..... 1 1⁄16" 12 pt. Skt.
H1236 ..... 1⅛" 12 pt. Skt.
H1240 ..... 1¼" 12 pt. Skt.
H1242 ..... 1 5⁄16" 12 pt. Skt.
H1244 ..... 1⅜" 12 pt. Skt.
H1246 ..... 1 7⁄16" 12 pt. Skt.
H1248 ..... 1½" 12 pt. Skt.
H1252 ..... 1⅝" 12 pt. Skt.
H1254 ..... 1 11⁄16" 12 pt. Skt.
H1256 ..... 1¾" 12 pt. Skt.
H1258 ..... 1 13⁄16" 12 pt. Skt.
H1260 ..... 1⅞" 12 pt. Skt.
H1264 ..... 2" 12 pt. Skt.
237 ..... TOOL BOX

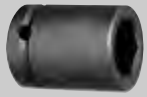


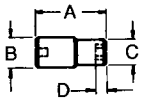
H22K

H51 ..... Rev. Ratchet
H104 ..... 3½" Extension
H110 ..... 8" Extension
H115 ..... 16" Extension
H140 ..... Universal Joint
H1228 ..... ⅞" 12 pt. Skt.
H1230 ..... 15⁄16" 12 pt. Skt.
H1232 ..... 1" 12 pt. Skt.
H1234 ..... 1 1⁄16" 12 pt. Skt.
H1236 ..... 1⅛" 12 pt. Skt.
H1240 ..... 1¼" 12 pt. Skt.
H1242 ..... 1 5⁄16" 12 pt. Skt.
H1244 ..... 1⅜" 12 pt. Skt.
H1246 ..... 1 7⁄16" 12 pt. Skt.
H1248 ..... 1½" 12 pt. Skt.
H1250 ..... 1 9⁄16" 12 pt. Skt.
H1252 ..... 1⅝" 12 pt. Skt.
H1254 ..... 1 11⁄16" 12 pt. Skt.
H1256 ..... 1¾" 12 pt. Skt.
H1258 ..... 1 13⁄16" 12 pt. Skt.
H1260 ..... 1⅞" 12 pt. Skt.
H1264 ..... 2" 12 pt. Skt.
237 ..... TOOL BOX

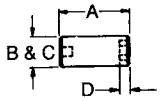


¾" Drive Power/Impact

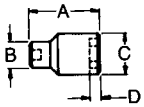




TYPE I



TYPE II



TYPE III



¾" Square Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Qty.	Opening
		A	B	C	D		Part No.		
5/8	I	2 1/8	1 5/8	1 5/8	9/32	.65	6620	5	5/8
11/16	I	2 1/8	1 5/8	1 5/8	5/16	.66	6622	5	11/16
3/4	I	2 1/8	1 5/8	1 15/64	9/16	.67	6624	5	3/4
13/16	I	2 1/8	1 5/8	1 23/64	39/64	.75	6626	5	13/16
7/8	I	2 1/8	1 5/8	1 1/2	39/64	.91	6628	5	7/8
15/16	I	2 1/8	1 5/8	1 9/16	19/32	.77	6630	5	15/16
1	II	2 1/8	—	1 5/8	35/64	.85	6632	5	1
1 1/16	II	2 1/8	1 3/4	1 11/16	13/16	.83	6634	5	1 1/16
1 1/8	II	2 1/8	—	1 3/4	13/16	.92	6636	5	1 1/8
1 3/16	II	2 1/8	1 7/8	1 7/8	7/8	.94	6638	5	1 3/16
1 1/4	II	2 1/8	2	2	29/32	1.24	6640	3	1 1/4
1 5/16	II	2 1/8	2	2	49/64	1.38	6642	3	1 5/16
1 3/8	III	2 1/4	1 29/32	2 1/8	25/32	1.38	6644	3	1 3/8
1 7/16	III	2 1/4	1 29/32	2 1/8	51/64	1.33	6646	3	1 7/16
1 1/2	III	2 1/2	1 29/32	2 5/16	55/64	1.71	6648	3	1 1/2
1 9/16	III	2 1/2	1 29/32	2 13/32	55/64	1.80	6650	3	1 9/16
1 5/8	III	2 1/2	1 29/32	2 7/16	1	1.83	6652	3	1 5/8
1 11/16	III	2 5/8	1 29/32	2 1/2	1	1.90	6654	3	1 11/16
1 3/4	III	2 5/8	1 29/32	2 9/16	1	2.01	6656	3	1 3/4
1 13/16	III	2 5/8	1 29/32	2 5/8	1	2.16	6658	3	1 13/16
1 7/8	III	2 3/4	1 29/32	2 23/32	1 1/16	2.20	6660	3	1 7/8
1 15/16	III	2 3/4	1 29/32	2 13/16	1 1/16	2.25	6662	3	1 15/16
2	III	2 7/8	1 29/32	2 15/16	1 1/16	2.30	6664	3	2
2 1/16	III	2 7/8	1 29/32	2 31/32	1 35/64	—	6666	3	2 1/16
2 1/8	III	3 1/16	1 29/32	3 3/64	1 23/32	—	6668	3	2 1/8
2 3/16	III	3 3/16	1 29/32	3 3/64	1 13/16	—	6670	3	2 3/16
2 1/4	III	3 3/16	1 29/32	3 7/32	1 51/64	—	6672	3	2 1/4
2 3/8	III	3 1/4	1 29/32	3 3/8	2 1/16	—	6676	3	2 3/8
2 7/16	III	3 1/4	2 1/4	3 25/64	1 15/16	—	6678	3	2 7/16
2 1/2	III	3 1/4	2 1/4	3 17/32	1 15/16	—	6680	3	2 1/2

¾" Square Drive 6 Point Deep Socket

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Qty.	Opening
		A	B	C	D		Part No.		
3/4	I	3 1/8	1 5/8	1 15/64	21/64	1.10	16624	5	3/4
13/16	I	3 1/8	1 5/8	1 23/64	3/8	1.14	16626	5	13/16
7/8	I	3 1/8	1 5/8	1 1/2	3/8	1.24	16628	5	7/8
15/16	I	3 1/8	1 5/8	1 9/16	19/32	1.10	16630	5	15/16
1	II	3 1/8	—	1 5/8	35/64	1.30	16632	5	1
1 1/16	I	3 1/2	1 3/4	1 5/8	13/16	1.42	16634	5	1 1/16
1 1/8	I	3 1/2	1 3/4	1 11/16	13/16	1.39	16636	3	1 1/8
1 3/16	I	3 1/2	1 7/8	1 13/16	13/16	1.63	16638	3	1 3/16
1 1/4	II	3 1/2	2	1 13/16	29/32	1.58	16640	3	1 1/4
1 5/16	II	3 1/2	2	2	7/8	2.02	16642	3	1 5/16
1 3/8	III	3 1/2	1 29/32	2 1/8	7/8	2.13	16644	3	1 3/8
1 7/16	III	3 1/2	1 29/32	2 1/8	7/8	2.00	16646	3	1 7/16
1 1/2	III	3 1/2	1 29/32	2 5/16	55/64	2.33	16648	3	1 1/2
1 9/16	III	3 1/2	1 29/32	2 13/32	55/64	2.50	16650	3	1 9/16
1 5/8	III	3 1/2	1 29/32	2 7/16	55/64	2.70	16652	3	1 5/8
1 11/16	III	3 1/2	1 29/32	2 1/2	2 17/64	3.00	16654	3	1 11/16
1 3/4	III	3 1/2	1 29/32	2 7/16	2 13/64	3.20	16656	3	1 3/4
1 7/8	III	3 1/2	1 29/32	2 23/32	2 15/16	3.40	16660	3	1 7/8
2	III	3 3/4	1 29/32	2 15/16	2 25/16	4.00	16664	3	2
2 1/16	III	3 3/4	1 29/32	2 31/32	2 7/16	—	16666	3	2 1/16
2 1/8	III	3 3/4	1 29/32	3 3/64	2 7/16	—	16668	3	2 1/8
2 3/16	III	4 1/4	1 29/32	3 3/64	2 1/2	—	16670	3	2 3/16
2 1/4	III	4 1/4	1 29/32	3 9/64	2 1/2	—	16672	3	2 1/4
2 3/8	III	4 1/4	1 29/32	3 3/8	2 1/2	—	16676	3	2 3/8
2 7/16	III	4 1/4	2 1/4	3 29/64	2 1/2	—	16678	3	2 7/16
2 1/2	III	4 1/4	2 1/4	3 17/32	2 7/8	—	16680	3	2 1/2

¾" Drive Power/Impact Attachments & Socket Sets

¾" Drive Power/Impact Attachments

¾" ATTACHMENTS	Item	Description	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
	Adaptor	¾F × ½M	.06	64A	5
	Adaptor	¾F × 1M	.06	67	5
	Extension	7" Extension	1.77	6107	5
	Extension	10" Extension	2.25	6110	5
	Extension	13" Extension	4.15	6113	5
	Universal Joint	4$\frac{1}{16}$ Lgth. Max.	.77	6140A	5
	Ret Ring®	Fits Part No. 64A	.01	M10005S	1
	Ret Ring®	Fits Part No. 67	.01	M10032S	1
	Ret Ring®	Fits Part No. 6107	.01	M10032S	1
	Ret Ring®	Fits Part No. 6110	.01	M10032S	1
	Ret Ring®	Fits Part No. 6113	.01	M10032S	1
	Ret Ring®	Fits Part No. 6140A	.01	M10032S	1
	Ret Ring®	Fits Part No. 6620 - 6634	.01	M10032S	1
	Ret Ring®	Fits Part No. 6636	.01	M10034S	1
	Ret Ring®	Fits Part No. 6638 - 6664	.01	M18708S	1
	Ret Ring®	Fits Part No. 16624 - 16634	.01	M10032S	1
	Ret Ring®	Fits Part No. 16636 - 16664	.01	M10034S	1

¾" Drive 6 Point Deep 8 Pieces

IH8K

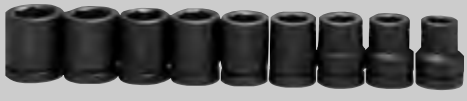
16628 ..... $\frac{7}{8}$"	16636 ..... 1$\frac{1}{8}$"
16630 ..... $\frac{15}{16}$"	16640 ..... 1$\frac{1}{4}$"
16632 ..... 1"	16642 ..... 1$\frac{5}{16}$"
16634 ..... 1$\frac{1}{16}$"	16648 ..... 1$\frac{1}{2}$"



¾" Drive 6 Point Standard 9 Pieces

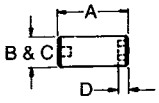
IH9K

6624 ..... $\frac{3}{4}$"	6634 ..... 1$\frac{1}{16}$"
6626 ..... $\frac{13}{16}$"	6636 ..... 1$\frac{1}{8}$"
6628 ..... $\frac{7}{8}$"	6638 ..... 1$\frac{3}{16}$"
6630 ..... $\frac{15}{16}$"	6640 ..... 1$\frac{1}{4}$"
6632 ..... 1"	

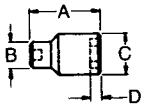


1" Drive Chrome Sockets





TYPE II



TYPE III

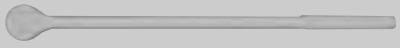
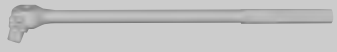
1" Square Drive 12 Point Standard Chrome

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Chrome	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
1 1/16	II	2 9/32	1 41/64	1 41/64	5/8	.90	X1234	1	1 1/16
1 1/8	II	2 9/32	1 11/16	1 11/16	21/32	.90	X1236	1	1 1/8
1 3/16	II	2 9/32	1 3/4	1 3/4	21/32	.90	X1238	1	1 3/16
1 1/4	II	2 9/32	1 13/16	1 13/16	3/4	.90	X1240	1	1 1/4
1 5/16	II	2 11/32	1 7/8	1 7/8	49/64	.90	X1242	1	1 5/16
1 3/8	II	2 7/16	1 3/4	1 15/16	25/32	.94	X1244	1	1 3/8
1 7/16	III	2 1/2	1 3/4	2	7/8	.94	X1246	1	1 7/16
1 1/2	III	2 9/16	1 3/4	2 1/8	55/64	1.06	X1248	1	1 1/2
1 5/8	III	2 11/16	1 3/4	2 1/4	1	1.06	X1252	1	1 5/8
1 11/16	III	2 3/4	1 15/16	2 3/8	1	1.50	X1254	1	1 11/16
1 3/4	III	2 13/16	1 15/16	2 1/2	1 3/32	1.50	X1256	1	1 3/4
1 13/16	III	2 7/8	1 15/16	2 9/16	1 1/8	1.63	X1258	1	1 13/16
1 7/8	III	2 15/16	2 1/4	2 5/8	1 1/8	1.94	X1260	1	1 7/8
1 15/16	III	3	2 1/4	2 3/4	1 7/32	2.25	X1262	1	1 15/16
2	III	3	2 1/4	2 3/4	1 7/32	2.19	X1264	1	2
2 1/8	III	3 1/16	2 1/4	2 15/16	1 3/8	2.44	X1268	1	2 1/8
2 3/16	III	3 1/8	2 1/4	3	1 3/8	2.50	X1270	1	2 3/16
2 1/4	III	3 3/16	2 1/4	3 1/16	1 3/8	2.38	X1272	1	2 1/4
2 5/16	III	3 1/4	2 1/4	3 5/32	1 3/8	2.69	X1274	1	2 5/16
2 3/8	III	3 5/16	2 1/4	3 1/4	1 3/8	2.88	X1276	1	2 3/8
2 7/16	III	3 3/8	2 1/4	3 5/16	1 3/8	2.88	X1278	1	2 7/16
2 1/2	III	3 7/16	2 1/4	3 3/8	1 3/8	3.00	X1280	1	2 1/2
2 9/16	III	3 1/2	2 1/4	3 3/8	1 1/2	3.13	X1282	1	2 9/16
2 5/8	III	3 9/16	2 1/4	3 9/16	1 3/4	3.63	X1284	1	2 5/8
2 3/4	III	3 11/16	2 43/64	3 23/32	1 3/4	4.63	X1288	1	2 3/4
2 13/16	III	3 3/4	2 43/64	3 53/64	1 3/4	5.13	X1290	1	2 13/16
2 15/16	III	3 7/8	2 43/64	3 61/64	2	5.25	X1294	1	2 15/16
3	III	3 15/16	2 43/64	4 1/64	2	5.56	X1296	1	3
3 1/8	III	4 1/16	2 43/64	4 11/64	2 13/64	5.25	X12100	1	3 1/8
3 3/8	III	4 1/16	2 43/64	4 17/32	2 13/64	6.31	X12108	1	3 3/8
3 1/2	III	4 1/16	2 43/64	4 11/16	2 13/64	6.50	X12112	1	3 1/2

Martin Heavy Duty Chrome Hand Tool Sockets are Manufactured to Extremely Close Tolerances of American Alloy Steel. The 12 Point Broach Opening Provides a Secure Fit for Absolute Tightening and Loosening.

WARNING: Only Power Impact Sockets Should Be Used on Pneumatic or Electric Impact Wrenches. Never Use Chrome Sockets.

1" Drive Attachments & Socket Set

1" Drive Attachments						
Item	Description	Wt. Ea. Lbs.	Chrome Part No.	Black Part No.	Std. Pkg. Qty.	1" ATTACHMENTS
Ratchet	30" Rev. Ratchet	7.94	X51		1	
Repair Kit	Ratchet Repair	1.13	X51RU		1	
Ratchet	30" Rev. Ratchet	7.94		BLKX51	1	
Repair Kit	Ratchet Repair	1.13		BLKX51RU	1	
Extension	8" Extension	2.31	X108		1	
Extension	17" Extension	4.31	X117		1	
Flex Handle	26" Flexible Hdle.	8.19	X41A		1	

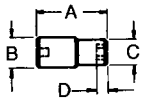
X21K		
X1246 ..... 1 7/16" 12 pt. Std. Skt. X1248 ..... 1 1/2" 12 pt. Std. Skt. X1252 ..... 1 5/8" 12 pt. Std. Skt. X1254 ..... 1 11/16" 12 pt. Std. Skt. X1256 ..... 1 3/4" 12 pt. Std. Skt. X1258 ..... 1 13/16" 12 pt. Std. Skt. X1260 ..... 1 7/8" 12 pt. Std. Skt. X1264 ..... 2" 12 pt. Std. Skt. X1268 ..... 2 1/8" 12 pt. Std. Skt. X1270 ..... 2 3/16" 12 pt. Std. Skt. X1272 ..... 2 1/4" 12 pt. Std. Skt.	X1276 ..... 2 3/8" 12 pt. Std. Skt. X1280 ..... 2 1/2" 12 pt. Std. Skt. X1284 ..... 2 5/8" 12 pt. Std. Skt. X1288 ..... 2 3/4" 12 pt. Std. Skt. X1294 ..... 2 15/16" 12 pt. Std. Skt. X12100 ..... 3 1/8" 12 pt. Std. Skt. X51 ..... Reversible Ratchet X108 ..... 8" Extension X117..... 17" Extension X41A..... Flexible Handle 299 ..... METAL BOX	

Martin Heavy Duty Power Impact Sockets are Specially Designed for Use with All Types of Power Wrenches. All Sockets are Hot Forged from the Finest Alloy Steels for Maximum Strength and Durability. Heat Treated by Carefully Controlled Methods, the Sockets are Accurately Broached in 6 Point Openings. All Power Impact Sockets are Finished in Rust Resistant Black Oxide.

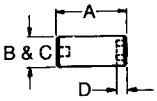
WARNING: Only Power Impact Sockets Should Be Used on Pneumatic or Electric Impact Wrenches. Never Use Chrome Sockets.

1" Drive Power/Impact

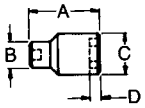




TYPE I



TYPE II



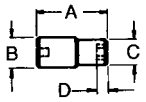
TYPE III

1" Drive 6 Point Standard

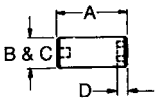
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
3/4	I	2 1/4	2	1 7/16	1 1/4	1.13	7624	1	3/4
13/16	I	2 1/4	2	1 7/16	1 1/4	1.00	7626	1	13/16
7/8	I	2 13/32	2	1 17/32	45/64	1.06	7628	1	7/8
15/16	I	2 7/16	2	1 9/16	23/32	1.06	7630	1	15/16
1	I	2 17/32	2	1 21/32	49/64	1.19	7632	1	1
1 1/16	I	2 9/16	2	1 3/4	13/64	1.25	7634	1	1 1/16
1 1/8	I	2 9/16	2	1 13/16	27/64	1.25	7636	1	1 1/8
1 3/16	II	2 11/16	—	2 1/16	29/32	1.50	7638	1	1 3/16
1 1/4	II	2 11/16	—	2 1/16	29/32	1.50	7640	1	1 1/4
1 5/16	II	2 11/16	—	2 1/16	49/64	1.44	7642	1	1 5/16
1 3/8	III	2 11/16	2 1/8	2 1/4	49/64	1.69	7644	1	1 3/8
1 7/16	III	2 11/16	2 1/8	2 1/4	55/64	1.63	7646	1	1 7/16
1 1/2	III	2 11/16	2 1/8	2 1/4	55/64	1.56	7648	1	1 1/2
1 9/16	III	2 11/16	2 1/4	2 1/2	1	1.75	7650	1	1 9/16
1 5/8	III	2 11/16	2 1/4	2 1/2	1	1.81	7652	1	1 5/8
1 11/16	III	2 11/16	2 1/4	2 1/2	1	1.88	7654	1	1 11/16
1 3/4	III	2 11/16	2 7/16	2 3/4	1	2.50	7656	1	1 3/4
1 13/16	III	2 11/16	2 7/16	2 3/4	1 1/16	2.50	7658	1	1 13/16
1 7/8	III	2 3/16	2 7/16	2 3/4	1 1/16	2.56	7660	1	1 7/8
1 15/16	III	3	2 7/16	2 63/64	1 1/16	3.00	7662	1	1 15/16
2	III	3	2 7/16	2 63/64	1 11/64	2.88	7664	1	2
2 1/16	III	3	2 7/16	2 63/64	1 11/64	2.81	7666	1	2 1/16
2 1/8	III	3	2 7/16	3 1/4	1 13/64	3.63	7668	1	2 1/8
2 3/16	III	3 3/16	2 7/16	3 1/4	1 9/32	3.38	7670	1	2 3/16
2 1/4	III	3 3/16	2 7/16	3 1/4	1 9/32	3.19	7672	1	2 1/4
2 5/16	III	3 3/16	2 7/16	3 1/2	1 5/16	3.88	7674	1	2 5/16
2 3/8	III	3 1/4	2 7/16	3 1/2	1 23/64	3.75	7676	1	2 3/8
2 7/16	III	3 9/32	2 7/16	3 1/2	1 3/8	3.44	7678	1	2 7/16
2 1/2	III	3 5/16	2 7/16	3 1/2	1 1/2	3.78	7680	1	2 1/2
2 9/16	III	3 15/32	2 3/4	3 5/8	1 3/4	4.90	7682	1	2 9/16
2 5/8	III	3 15/32	2 3/4	3 45/64	1 3/4	4.95	7684	1	2 5/8
2 11/16	III	3 15/32	2 3/4	3 53/64	1 1/2	4.88	7686	1	2 11/16
2 3/4	III	3 9/16	2 3/4	3 53/64	1 3/4	4.94	7688	1	2 3/4
2 13/16	III	3 11/16	2 3/4	4 1/64	1 3/4	5.01	7690	1	2 13/16
2 7/8	III	3 3/4	2 3/4	4	1 3/4	5.30	7692	1	2 7/8
2 15/16	III	3 3/4	2 3/4	4 1/64	2	5.56	7694	1	2 15/16
3	III	3 7/8	2 3/4	4 11/64	2	5.75	7696	1	3
3 1/8	III	3 15/16	2 3/4	4 11/64	2 13/64	5.63	76100	1	3 1/8
3 1/4	III	4 1/16	2 3/4	4 35/64	2	6.19	76104	1	3 1/4
3 3/8	III	4 3/16	2 3/4	4 17/32	2 13/64	7.06	76108	1	3 3/8
3 1/2	III	4 5/16	2 3/4	4 11/16	2 13/64	7.25	76112	1	3 1/2

1" Drive Power/Impact Deep/Attachments

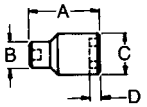




TYPE I



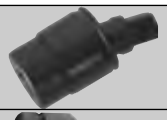
TYPE II



TYPE III

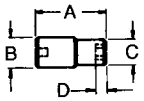
1" Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
3/4	I	3	2	1 7/16	23/64	2.25	17624	1	3/4
13/16	I	3	2	1 7/16	27/64	2.38	17626	1	13/16
7/8	I	3	2	1 17/32	39/64	2.41	17628	1	7/8
15/16	I	3	2	1 9/16	23/32	2.43	17630	1	15/16
1	I	3	2	1 21/32	23/32	2.38	17632	1	1
1 1/16	I	3	2	1 3/4	3/4	2.38	17634	1	1 1/16
1 1/8	I	3	2	1 13/16	13/16	2.39	17636	1	1 1/8
1 3/16	II	3	—	2 1/16	7/8	2.33	17638	1	1 3/16
1 1/4	II	3	—	2 1/16	29/32	2.31	17640	1	1 1/4
1 5/16	II	3	—	2 1/16	15/16	2.25	17642	1	1 5/16
1 3/8	III	3	2 1/8	2 1/4	49/64	2.10	17644	1	1 3/8
1 7/16	III	3	2 1/8	2 1/4	49/64	2.25	17646	1	1 7/16
1 1/2	III	4	2 1/8	2 1/4	55/64	2.75	17648	1	1 1/2
1 9/16	III	4	2 1/4	2 1/2	55/64	2.83	17650	1	1 9/16
1 5/8	III	4	2 1/4	2 1/2	1	2.84	17652	1	1 5/8
1 11/16	III	4	2 7/16	2 3/4	1	3.46	17654	1	1 11/16
1 3/4	III	4 1/16	2 7/16	2 3/4	1	3.46	17656	1	1 3/4
1 13/16	III	4 1/8	2 7/16	2 3/4	1	3.81	17658	1	1 13/16
1 7/8	III	4 3/16	2 7/16	2 3/4	1 1/16	3.85	17660	1	1 7/8
1 15/16	III	4 1/4	2 7/16	2 31/32	1 1/16	4.80	17662	1	1 15/16
2	III	4 5/16	2 7/16	2 31/32	1 1/16	4.52	17664	1	2
2 1/16	III	4 3/8	2 7/16	2 31/32	1 11/64	4.73	17666	1	2 1/16
2 1/8	III	4 7/16	2 7/16	3 1/4	1 11/64	5.00	17668	1	2 1/8
2 3/16	III	4 1/2	2 7/16	3 1/4	1 13/64	5.60	17670	1	2 3/16
2 1/4	III	4 21/32	2 7/16	3 1/4	1 9/32	5.30	17672	1	2 1/4
2 5/16	III	4 23/32	2 7/16	3 13/32	1 9/32	5.90	17674	1	2 5/16
2 3/8	III	4 3/4	2 7/16	3 31/64	1 5/16	6.50	17676	1	2 3/8

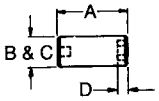
1" POWER OR IMPACT ATTACHMENTS	Item	Description	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
	Adaptor	1F × 3/4M	1.00	76	1
	Adaptor	1F × 1 1/2M	1.00	77	1
	Universal	Max Length 4.5"	3.04	7140A	1
	Extension	7" Extension	3.56	7107	1
	Extension	10" Extension	6.00	7110	1
	Extension	13" Extension	8.50	7113	1
	Ret Ring®	Fits Part No. 76	.01	M10008S	1
	Ret Ring®	Fits Part No. 77, 7140A, 7107, 7110, 7113	.01	M10010S	1
	Ret Ring®	Fits Part No. 7624 - 7642	.01	M10008S	1
	Ret Ring®	Fits Part No. 7644 - 7648	.01	M10010S	1
	Ret Ring®	Fits Part No. 7650 - 7654	.01	M10015S	1
	Ret Ring®	Fits Part No. 7656 - 7680	.01	M10016S	1
	Ret Ring®	Fits Part No. 7684 - 7696	.01	M10017S	1
	Ret Ring®	Fits Part No. 76100 - 76112	.01	M10017S	1
	Ret Ring®	Fits Part No. 17624 - 17642	.01	M10008S	1
	Ret Ring®	Fits Part No. 17644 - 17648	.01	M10010S	1
	Ret Ring®	Fits Part No. 17650 - 17652	.01	M10015S	1
	Ret Ring®	Fits Part No. 17654 - 17676	.01	M10016S	1

1½" Drive Power/Impact

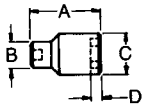




TYPE I



TYPE II



TYPE III



1½" Drive 6 Point Standard

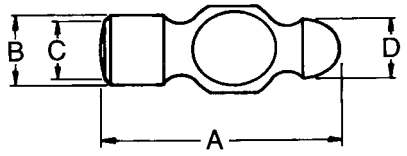
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.	Opening
		A	B	C	D		Part No.		
1⅜	I	3⅛	3¼	2¾	¾	5.70	8644	1	1⅜
1⁷⁄₁₆	I	3⅛	3¼	2¾	¾	5.70	8646	1	1⁷⁄₁₆
1½	I	3⅛	3¼	2⅞	⁵⁵⁄₆₄	5.70	8648	1	1½
1⁹⁄₁₆	I	3⅛	3¼	2⅞	⁵⁵⁄₆₄	5.70	8650	1	1⁹⁄₁₆
1⅝	I	3⁹⁄₁₆	3¼	3	⁵⁵⁄₆₄	5.70	8652	1	1⅝
1¹¹⁄₁₆	I	3⁹⁄₁₆	3¼	3	⁶³⁄₆₄	5.70	8654	1	1¹¹⁄₁₆
1¾	I	3¼	3¼	3⅛	⁶³⁄₆₄	5.70	8656	1	1¾
1¹³⁄₁₆	I	3¼	3¼	3⅛	1	5.70	8658	1	1¹³⁄₁₆
1⅞	I	3⅜	3¼	3⅛	1⅛	5.70	8660	1	1⅞
1¹⁵⁄₁₆	I	3½	3¼	3⅛	1⅛	5.70	8662	1	1¹⁵⁄₁₆
2	II	3⅜	3¼	3¼	1⅛	5.70	8664	1	2
2¹⁄₁₆	II	3⅜	3¼	3¼	1¹¹⁄₆₄	5.70	8666	1	2¹⁄₁₆
2⅛	III	3⅜	3¼	3½	1¹¹⁄₆₄	6.30	8668	1	2⅛
2³⁄₁₆	III	3⅜	3¼	3½	1¹³⁄₆₄	6.40	8670	1	2³⁄₁₆
2¼	III	3¾	3¼	3¾	1⁹⁄₃₂	6.80	8672	1	2¼
2⁵⁄₁₆	III	3¾	3¼	3¾	1⁹⁄₃₂	7.20	8674	1	2⁵⁄₁₆
2⅜	III	3⅞	3¼	3¾	1⁵⁄₁₆	7.60	8676	1	2⅜
2⁷⁄₁₆	III	3⅞	3¼	3⅞	1²³⁄₆₄	7.90	8678	1	2⁷⁄₁₆
2½	III	4	3¼	3⅞	1²³⁄₆₄	8.20	8680	1	2½
2⁹⁄₁₆	III	4	3¼	4	1²⁵⁄₆₄	8.50	8682	1	2⁹⁄₁₆
2⅝	III	4⅛	3¼	4	1¹³⁄₃₂	8.80	8684	1	2⅝
2¹¹⁄₁₆	III	4¼	3¼	4⅛	1¹³⁄₃₂	8.90	8686	1	2¹¹⁄₁₆
2¾	III	4¼	3¼	4¼	1½	9.10	8688	1	2¾
2¹³⁄₁₆	III	4⅜	3¼	4¼	1³⁷⁄₆₄	9.30	8690	1	2¹³⁄₁₆
2⅞	III	4⅜	3¼	4½	1³⁷⁄₆₄	9.50	8692	1	2⅞
2¹⁵⁄₁₆	III	4½	3¼	4½	1⅝	9.80	8694	1	2¹⁵⁄₁₆
3	III	4½	3¼	4¾	1¹¹⁄₁₆	9.90	8696	1	3
3¹⁄₁₆	III	4⅝	3¼	4¾	1¹¹⁄₁₆	12.70	8698	1	3¹⁄₁₆
3⅛	III	4⅝	3¼	4¾	1²³⁄₃₂	12.70	86100	1	3⅛
3⁹⁄₁₆	III	4¹¹⁄₁₆	3¼	4¾	1²³⁄₃₂	12.50	86102	1	3⁹⁄₁₆
3¼	III	4¹¹⁄₁₆	3¼	5	1²³⁄₃₂	14.00	86104	1	3¼
3⁵⁄₁₆	III	4¹¹⁄₁₆	3¼	5	1²³⁄₃₂	13.70	86106	1	3⁵⁄₁₆
3⅜	III	4¹¹⁄₁₆	3¼	5	1⅞	13.40	86108	1	3⅜
3⁷⁄₁₆	III	4¾	3¼	5	1⅞	13.50	86110	1	3⁷⁄₁₆
3½	III	4¾	3¼	5⅛	1⁵⁹⁄₆₄	13.90	86112	1	3½
3⁹⁄₁₆	III	5	3¼	5⅛	1⁵⁹⁄₆₄	14.40	86114	1	3⁹⁄₁₆
3⅝	III	5	3¼	5¼	1⁵⁹⁄₆₄	15.00	86116	1	3⅝
3¹¹⁄₁₆	III	5	3¼	5¼	1⁵⁹⁄₆₄	14.70	86118	1	3¹¹⁄₁₆
3¾	III	5	3¼	5½	1⁵⁹⁄₆₄	14.70	86120	1	3¾
3¹³⁄₁₆	III	5¼	3¼	5½	1⁵⁹⁄₆₄	16.00	86122	1	3¹³⁄₁₆
3⅞	III	5¼	3¼	5½	1⁵⁹⁄₆₄	15.50	86124	1	3⅞
3¹⁵⁄₁₆	III	5½	3¼	5¾	1⁵⁹⁄₆₄	18.40	86126	1	3¹⁵⁄₁₆
4	III	5½	3¼	5¾	1⁵⁹⁄₆₄	18.00	86128	1	4
4¹⁄₁₆	III	5½	3¼	5¾	1⁵⁹⁄₆₄	17.50	86130	1	4¹⁄₁₆
4⅛	III	5⅝	3¼	6	1⁵⁹⁄₆₄	20.20	86132	1	4⅛
4³⁄₁₆	III	5⅝	3¼	6	1⁵⁹⁄₆₄	19.70	86134	1	4³⁄₁₆
4¼	III	5⅝	3¼	6	1⁵⁹⁄₆₄	19.20	86136	1	4¼
4⁵⁄₁₆	III	5¾	3¼	6¼	1⁵⁹⁄₆₄	22.00	86138	1	4⁵⁄₁₆
4⅜	III	5¾	3¼	6¼	1⁵⁹⁄₆₄	21.60	86140	1	4⅜
4⁷⁄₁₆	III	5¾	3¼	6¼	1⁵⁹⁄₆₄	21.00	86142	1	4⁷⁄₁₆
4½	III	5¾	3¼	6½	1⁵⁹⁄₆₄	23.60	86144	1	4½
4⅝	III	6	3¼	6½	1⁵⁹⁄₆₄	23.60	86148	1	4⅝
4¾	III	6	3¼	6½	1⁵⁹⁄₆₄	22.50	86152	1	4¾

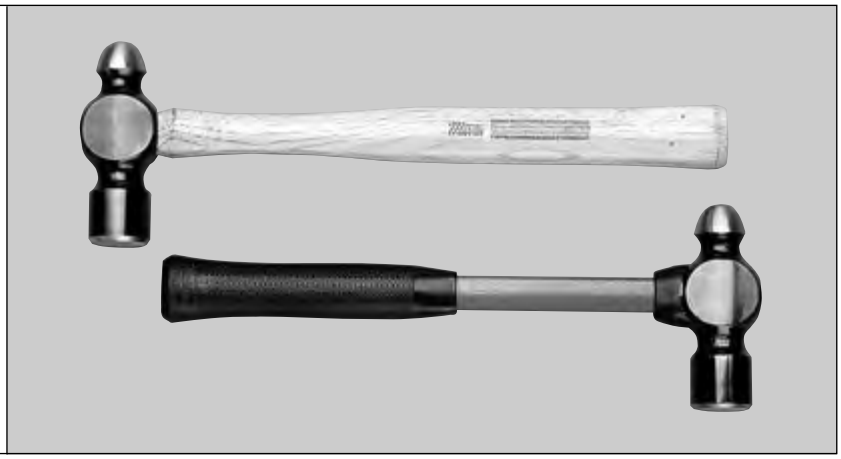
1½" Attachments

1½" DRIVE ATTACHMENTS	Item	Description	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.
	Adaptor	1½"F × 1M	3.40	87A	1
	Universal	Max. length 8.25"	4.40	8140A	1
	Extension	8" Extension	8.80	8108	1
	Extension	12" Extension	12.10	8112	1
	Extension	15" Extension	14.40	8115	1
	Ret Ring®	Fits Part No. 87A - 8670	.01	M10020S	1
	Ret Ring®	Fits Part No. 8672 - 86152	.01	M10025S	1

Hammers

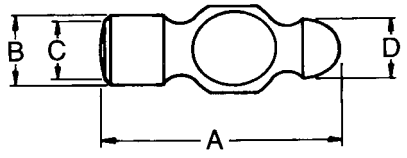
**Only Martin Provides This Added Warranty —
If a Hammer Head Should Loosen at Any Time,
Return It for Handle Replacement or a New Hammer.**





Standard Ball Peen — G Series — Wood and Fiberglass Handles

Head Weight	Overall Length	Head Length	Bell Dia.	Face	Peen	Replacement Handle		Weight With Handle	Industrial Black Head Finish		Std. Pkg. Qty.	Head Weight
		A	B	C	D	Wood	Fiberglass Kit		Wood Handle	Fiberglass Handle		
2 oz.	9½	2 1/16	5/8	5/8	17/32	HH49		.25	101G		6	2 oz.
4 oz.	9½	2½	3/4	3/4	5/8	HH50		.37	102G		6	4 oz.
8 oz.	11⅝	3⅛	15/16	13/16	25/32	HH53		.66	103G		6	8 oz.
12 oz.	13¼	3¾	1 3/32	15/16	15/16	HH59		1.0	104G		6	12 oz.
1 lb.	14¼	4	1 5/32	63/64	1	HH59	HH105106FG	1.3	105G	105FG	6	1 lb.
1¼ lb.	14½	4 3/16	1 9/32	1⅛	1 3/64	HH59	HH105106FG	1.5	106G	106FG	6	1¼ lb.
1½ lb.	14¾	4 9/16	1 21/64	1 9/64	1⅛	HH66	HH107FG	1.8	107G	107FG	6	1½ lb.
2 lb.	15¼	5	1½	1 9/32	1¼	HH66	HH108FG	2.4	108G	108FG	4	2 lb.
2½ lb.	16¼	5 7/16	1 21/32	1 27/64	1 23/64	HH69	HH109110FG	3.0	109G	109FG	4	2½ lb.
3 lb.	16¼	5⅞	1 23/32	1 15/32	1 15/32	HH71	HH109110FG	3.4	110G	110FG	4	3 lb.





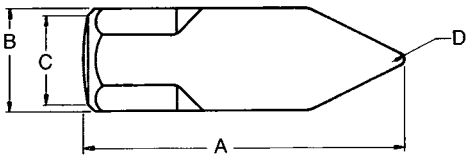
Utility Ball Peen — D Series

Head Weight	Overall Length	Head Length	Bell Dia.	Face	Peen	Replacement Handle	Weight With Handle	Shot Blasted Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C	D			Part No.		
8 oz.	12	3⅛	15/16	13/16	25/32	HH53	.66	63D	6	8 oz.
12 oz.	12	3¾	1 3/32	15/16	15/16	HH59	1.0	64D	6	12 oz.
1 lb.	14¼	4	1 5/32	63/64	1	HH59	1.3	65D	6	1 lb.
1¼ lb.	14½	4 3/16	1 9/32	1⅛	1 3/64	HH59	1.5	66D	6	1¼ lb.
1½ lb.	14¾	4 9/16	1 21/64	1 9/64	1⅛	HH66	1.8	67D	6	1½ lb.
2 lbs.	15¼	5	1½	1 9/32	1¼	HH66	2.4	68D	4	2 lbs.
2½ lbs	16¼	5 7/16	1 21/32	1 27/64	1 23/64	HH69	3.0	69D	4	2½ lbs
3 lbs.	16¼	5⅞	1 23/32	1 15/32	1 15/32	HH71	3.4	70D	4	3 lbs.

Always wear eye protection. A hammer blow should always be struck squarely. Avoid glancing blows. Never use hammers, punches or chisels with "mushroomed" heads.

Hammers

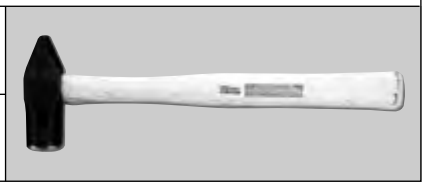
**Only Martin Provides This Added Warranty —
If a Hammer Head Should Loosen at Any Time,
Return It for Handle Replacement or a New Hammer.**

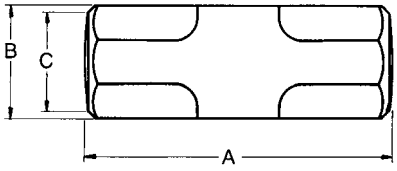


Always wear eye protection. A hammer blow should always be struck squarely. Avoid glancing blows. Never use hammers, punches or chisels with "mushroomed" heads.

Cross Peen Engineer / Blacksmith Hand

Head Weight	Overall Length	Head Length A	Bell Dia. B	Face C	Peen D	Replacement Handle	Weight With Handle	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
2 lbs.	15½	4¾	1½	1³⁄₃₂	³⁄₁₆R	HH45	2.7	121G	4	2 lb.
2½ lbs	15½	5¹⁄₁₆	1⁹⁄₁₆	1¹¹⁄₃₂	³⁄₁₆R	HH45	3.2	122G	4	2½ lb.
3 lbs.	15½	5¼	1⅝	1²⁵⁄₆₄	¼R	HH45	3.7	123G	4	3 lb.

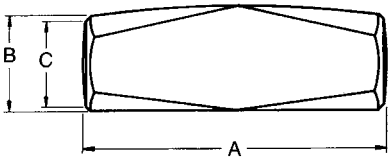




Double Faced Engineer's / Blacksmith

Head Weight	Overall Length	Head Length A	Bell Dia. B	Face C	Replacement Handle	Weight With Handle	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
2 lbs.	15½	4	1½	1³⁄₃₂	HH45	2.7	141G	4	2 lb.
2½ lbs	15½	4½	1½	1³⁄₃₂	HH45	3.2	142G	4	2½ lb.
3 lbs.	15½	5¹⁄₁₆	1⁹⁄₁₆	1¹¹⁄₃₂	HH45	3.7	143G	4	3 lb.

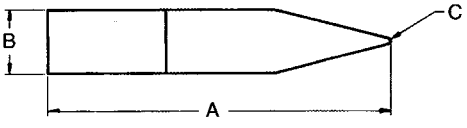




Hand Drilling

Head Weight	Overall Length	Head Length A	Bell Dia. B	Face C	Replacement Handle	Weight With Handle	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
2 lbs.	10½	4¹⁄₁₆	1⅜	1³⁄₃₂	HH92	2.6	192G	4	2 lbs.
3 lbs.	10½	4⅜	1½	1³⁄₃₂	HH92	3.6	193G	4	3 lbs.
4 lbs.	10½	4⅝	1⅝	1²⁵⁄₆₄	HH92	4.4	194G	4	4 lbs.





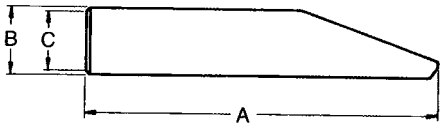
Scaling Hammer (Boiler Pick)

Head Weight	Overall Length	Head Length A	Face Length B	Face Radius C	Replacement Handle	Weight with Handle Lbs.	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
1 lb.	14	5⁹⁄₁₆	1¹⁄₃₂	¹⁄₁₆	HH59	1.4	132G	6	1 lb.



Hammers

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Return It for Handle Replacement or a New Hammer.**



Always wear eye protection. A hammer blow should always be struck squarely. Avoid glancing blows. Never use hammers, punches or chisels with "mushroomed" heads.

Setting Paneing Hammer

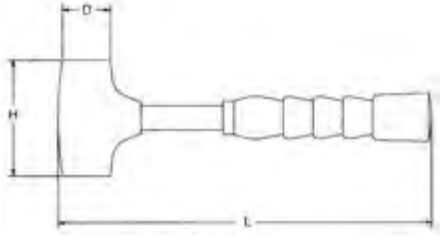


Head Weight	Overall Length	Head Length A	Head Width B	Face Width C	Replacement Handle	Weight with Handle Lbs.	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
12 oz.	13½	4 13/16	7/8	3/4	HH801	1.1	30G	6	12 oz.
1 lb.	13½	5 1/16	15/16	13/16	HH801	1.4	31G	6	1 lb.

Sledge Hammer



Head Weight	Head Length	Face Width	Handle Length	Replacement Handle	Weight with Handle Lbs.	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
4 lbs.	5¼	1 13/16	32	HH418	4.3	S844SH	5	4 lbs.
6 lbs.	6	2⅛	32	HH6810	7.1	S846H	5	6 lbs.
8 lbs.	6½	2¼	32	HH6810	9.1	S848H	5	8 lbs.
10 lbs.	7	2½	32	HH6810	11.1	S8410H	5	10 lbs.
12 lbs.	7½	2⅝	34	HH1216	13.2	S8412H	5	12 lbs.
16 lbs.	8¼	2⅞	34	HH1216	17.2	S8416H	4	16 lbs.



Surface protective, non-marring and non-sparking brass head provides a lot of driving power in a compact hammer. Standard Super Grip (SG) requires less "squeeze" when swinging heavy hammer, reducing strain and fatigue. Ideal for use with heavy gloves.

Brass Hammers



Part No.	Approx. Head Wt.	Std. Pkg.	Ship. Wt.	D	H	L
HSB15	1.5 lb.	5	2.01 lb.	1/1.25	3.5	12
HSB25	2.5 lb.	2	2.72 lb.	1.25/1.5	3.5	12
HSB4	3.5 lb.	2	3.85 lb.	1.65/1.78	3.7	12

Dead Blow Hammers

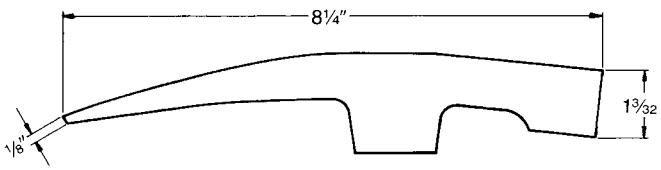


Part No.	Approx. Head Wt.	Std. Pkg.	Ship. Wt.	D	H	L
HPD1	1.25 lb.	5	1.85 lb.	1.6/2.1	3.9	11
HPD2	1.5 lb.	5	2.10 lb.	2.05/2.4	4.3	12
HPD3	2.2 lb.	2	2.71 lb.	2.4/2.7	4.7	12
HPD4	2.9 lb.	2	3.50 lb.	2.75/3.1	5	13

Shot loaded head produces the most complete dead blow effect (no rebound) ever offered for 30% more striking force than conventional hammers. Fiberglass handle and pliable Standard Super Grip combine with the dead blow effect to reduce effort, strain, vibration and noise.

Hammers

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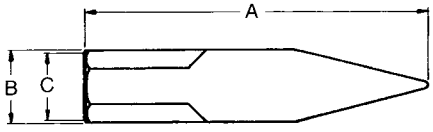


Always wear eye protection. A hammer blow should always be struck squarely. Avoid glancing blows. Never use hammers, punches or chisels with "mushroomed" heads.



Brick Hammer

Head Weight	Overall Length	Replacement Handle Kit	Weight with Handle Lbs.	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
1½ lbs.	11	HH173FG	2.0	173	6	1½ lb.





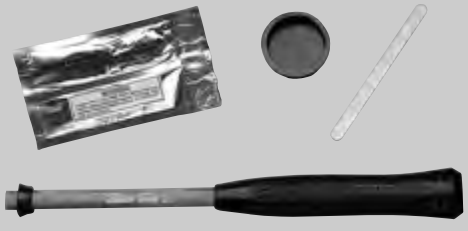
Tinner's Riveting Hammer

Head Weight	Overall Length	Head Length A	Head Width B	Face Width C	Replacement Handle	Weight with Handle Lbs.	Industrial Black Head Finish Part No.	Std. Pkg. Qty.	Head Weight
4 oz.	9¼	3 1⁄16	9⁄16	15⁄32	HH50	.38	25G	6	4 oz.
8 oz.	11	4¼	¾	21⁄32	HH53	.76	26G	6	8 oz.
12 oz.	13½	4¾	29⁄32	25⁄32	HH801	1.1	27G	6	12 oz.
1 lb.	14	5⅛	31⁄32	27⁄32	HH801	1.4	28G	6	1 lb.



Hickory Hammer Handles

Part Number	Std. Pkg. Qty.	Approx. Length	Use For
HH42A18	12	18	165 Body Hammer
HH42B	12	12	All Body Hammers (Except 165 & 155)
HH45	12	16	Cross Peen and Double Face Eng. and 155
HH49	12	9¾	2 oz. Ball Peen
HH50	12	10	4 oz. Ball Peen/4 oz. Riveting
HH53	12	12	8 oz. Ball Peen/8 oz. Riveting
HH59	12	14½	12 oz. Ball Peen
HH59	12	14½	1 lb., 1¼ lb. Ball Peen
HH66	12	16	1½, 2 lb. Ball Peen
HH69	12	17	2½ lb. Ball Peen
HH71	12	17	3 lb. Ball Peen
HH92	12	10½	All Hand Drilling
HH801	12	13¾	12 & 16 oz. Riveting and Settling
HH418	12	32	4 lb. Sledge
HH6810	12	33	6, 8 & 10 lb. Sledge
HH1216	12	35	12 & 16 lb. Sledge



Fiberglass Replacement Handle Kits

Part Number	Std. Pkg. Qty.	Approx. Length	Use For
HH105106FG	1	13	1 lb. and 1¼ lb. Ball Peen — G Series
HH107FG	1	14	1½ lb. Ball Peen — G Series
HH108FG	1	16	2 lbs. Ball Peen — G Series
HH109110FG	1	16	2½ lb. and 3 lb. Ball Peen — G Series
HH173FG	1	12½	1½ lbs. Brick Hammer
HHBFFG	1	12	All Body Hammers with 12" Handle

Screwdrivers

- Ergonomically & Accurately Sized Cellulose Acetate Handles.
- Rugged, Impact and Chemical Resistant.
- Color Coded Inlays for Easy Identification.
- Forged Nickel-Chrome Molybdenum Alloy Blades.
- Serrated Faces to Resist Slipping.
- Bright Zinc Plate to Resist Corrosion.
- All drivers meet or exceed ANSI/ASME standards and specifications for hardness and torque



WARNING: Acetate handles are not intended to act as insulation. Never use screwdrivers as prybars or chisels.



NARROW TIP, ROUND SHANK

Cabinet and Electrical Screwdrivers

Blade Length	Blade Width	Type	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
4	3/16	Cabinet	.14	SDE4-1	6
6	3/16	Electrical	.15	SDE6-1	6
8	3/16	Electrical	.16	SDE8-1	6



WIDENED TIP, ROUND SHANK

Mechanic's and Heavy Duty Screwdrivers

Blade Length	Blade Width	Type	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
4	1/4	Mechanic's	.20	SDR4-1	6
6	5/16	Heavy Duty	.30	SDR6-1	6
8	3/8	Heavy Duty	.49	SDR8-1	6



PRECISION HEAD, ROUND SHANK

Phillips Screwdrivers

Blade Length	Phillips Size	Type	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
3	No. 1	Phillips	.13	SDP3-1	6
4	No. 2	Phillips	.20	SDP4-1	6
6	No. 3	Phillips	.30	SDP6-1	6



STURDY TIP, SQUARE SHANK

Square-Blade Screwdrivers

Blade Length	Blade Width	Type	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
4	1/4	Square	.21	SDS4-1	6
6	5/16	Square	.34	SDS6-1	6
8	3/8	Square	.55	SDS8-1	6
10	3/8	Square	.62	SDS10-1	6
12	3/8	Square	.70	SDS12-1	6



TIGHT CLEARANCE, STURDY

Stubby Screwdrivers

Blade Length	Width/ Size	Type	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
1½	1/4	Stubby	.10	SDS1-1	6
1½	No. 2	Phillips	.10	SDP1-1	6

Screwdriver Sets



SD10K



SDR7K-1



SDR5K-1



SDP4K-1



SDR4K-1



SDS3K-1

SDR4K-1	4pc Screwdriver Combo Set	
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
P696	Pouch	

SDR5K-1	5pc Screwdriver Combo Set	
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDR6-1	Mechanics, 6"	5/16 Rd-C x 6"
SDR8-1	Mechanics, 8"	3/8 Rd-K x 8"
SDS1-1	Mechanics, 1-1/2"	1/4 Sq-K x 1.5"
P696	Pouch	

SDR7K-1	7pc Screwdriver Combo Set	
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDE6-1	Electrical, 6"	3/16 Rd-C x 6"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
SDP6-1	#3 Phillips, 6"	P3 x 6"
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDR6-1	Mechanics, 6"	5/16 Rd-C x 6"
P496	Pouch	

SDS3K-1	HD Screwdriver Set	
SDS4-1	SQ-Blade, 4"	1/4 Sq x 4"
SDS6-1	SQ-Blade, 6"	5/16 Sq x 6"
SDS8-1	SQ-Blade, 8"	3/8 Sq x 8"
P696	Pouch	

SD10K	10pc Screwdriver Combo Set	
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDE6-1	Electrical, 6"	3/16 Rd-C x 6"
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDR6-1	Mechanics, 6"	5/16 Rd-C x 6"
SDS1-1	Mechanics, 1-1/2"	1/4 Sq-K x 1.5"
SDS8-1	SQ-Blade, 8"	3/8 Sq-K x 8"
SDP1-1	#2 Phillips, 1-1/2"	P2 x 1.5"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
SDP6-1	#3 Phillips, 6"	P3 x 6"

SDP4K-1	4pc Phillips Set	
SDP1-1	#2 Phillips, 1-1/2"	P2 x 1.5"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
SDP6-1	#3 Phillips, 6"	P3 x 6"
P696	Pouch	

Heavy-Duty Gasket Scrapers
Chisel and Punch Sets



Martin's patented two composite ergonomically designed handle provides maximum comfort and secure grip. Capped end in direct contact with the shaft allows the user to strike the tool without handle damage. Blade extends throughout the handle. Hardened and tempered the entire length for maximum durability

Set contains 1/2" x 10"; 3/4" x 10"; 1" x 10"; 1-1/2" x 10".

- Cleaning gasket material, adhesives and all general scraping in automotive and engineering applications.
- Used for scraping carbon from cylinder heads, pistons and other metal surfaces.

GS4K	Gasket Scraper Set 4 Pc. Heavy Duty Gasket Scraper Set Set	Wt. 2.5 lb.
GS50	1⁄2" x 10" Long Gasket Scraper	• USA Alloy Steel
GS75	3⁄4" x 10" Long Gasket Scraper	• Heavy Duty 3/88 Shank
GS100	1" x 10" Long Gasket Scraper	
GS150	1-1⁄2" x 10" Long Gasket Scraper	

Part No.		Size	Weight	Std. Pkg. Qty.
GS50		1⁄2" x 10"	.57	6
GS75		3⁄4" x 10"	.57	6
GS100		1" x 10"	.58	6
GS150		1-1⁄2" x 10"	.59	6

Chisel Sets



CC6K	6 PIECES
C8	1⁄4" Cold Chisel
C10	5⁄16" Cold Chisel
C12	3⁄8" Cold Chisel
C16	1⁄2" Cold Chisel
C20	5⁄8" Cold Chisel
C24	3⁄4" Cold Chisel
C66	KIT BAG

WARNING: Never use hammers with "mushroomed" heads. They may chip and cause injury.
"ALWAYS WEAR SAFETY GOGGLES"

Punch Sets



PP7K	7 PIECES
P2	1⁄16" Pin Punch
P3	3⁄32" Pin Punch
P4	1⁄8" Pin Punch
P5	5⁄32" Pin Punch
P6	3⁄16" Pin Punch
P8	1⁄4" Pin Punch
P10	5⁄16" Pin Punch
C70	KIT BAG



LP7K	7 PIECES
P23	3⁄32" Lg. Taper
P24	1⁄8" Lg. Taper
P25	5⁄32" Lg. Taper
P26	3⁄16" Lg. Taper
P26A	7⁄32" Lg. Taper
P27	1⁄4" Lg. Taper
P28	5⁄16" Lg. Taper
C187	KIT BAG

Combination Chisel & Punch Sets



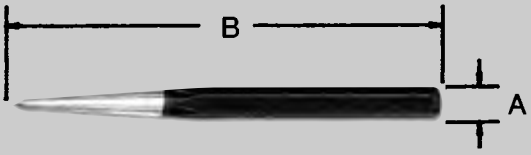
PC6K	6 PIECES
C16	1⁄2" Cold Chisel
C24	3⁄4" Cold Chisel
P42	1⁄2" Center Punch
P4	1⁄8" Pin Punch
P6	3⁄16" Pin Punch
P16	3⁄16" Solid Punch
C66	KIT BAG



PC14K	14 PIECES	
C42	1⁄4" Cape Chisel	P40 3⁄8" Center Punch
C16	1⁄2" Cold Chisel	P24 1⁄8" Drift Punch
C20	5⁄8" Cold Chisel	P25 5⁄32" Lg. Taper Punch
C24	3⁄4" Cold Chisel	P6 3⁄16" Pin Punch
C28	7⁄8" Cold Chisel	P8 1⁄4" Pin Punch
C60	1⁄4" Diamond Pt. Chisel	P14 1⁄8" Solid Punch
C72	1⁄4" Hlf. Rd. Nose Chisel	P18 1⁄4" Solid Punch
		C14 KIT BAG

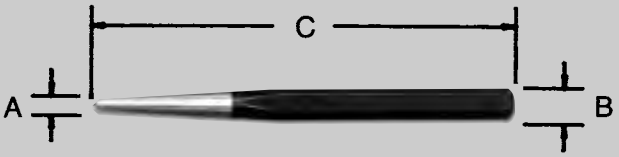
WARNING: "ALWAYS WEAR SAFETY GOGGLES"

Prick Punch



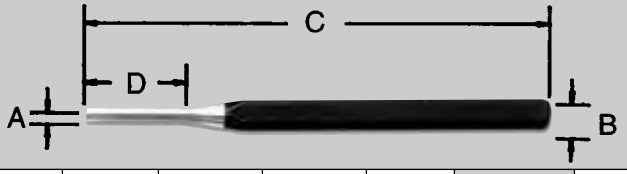
Stock Size	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
A	B		Part No.	
3/8	5	.14	P32	12
1/2	6	.27	P33	12

Center Punch



Point Size	Stock Size	Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
A	B	C		Part No.	
3/32	1/4	3 1/2	.06	P38	12
5/32	5/16	4 1/4	.08	P39	12
3/16	3/8	5	.15	P40	12
1/4	1/2	6	.30	P42	12
3/8	5/8	6 1/4	.25	P43	6

Pin Punch



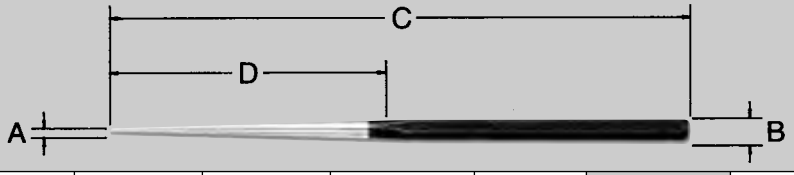
Point Size	Stock Size	Length	Pin Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
A	B	C	D		Part No.	
1/16	1/4	4	3/4	.05	P2	12
3/32	5/16	4 1/2	7/8	.12	P3	12
1/8	5/16	4 3/4	1	.12	P4	12
5/32	5/16	5	1	.12	P5	12
3/16	3/8	5 1/4	1 1/4	.17	P6	12
7/32	3/8	5 1/2	1 1/4	.18	P7	12
1/4	3/8	5 3/4	1 1/4	.29	P8	12
5/16	1/2	6	1 1/4	.33	P10	12

Solid Punch



Point Size	Stock Size	Length	Taper Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
A	B	C	D		Part No.	
3/32	5/16	5	1 3/4	.02	P13	12
1/8	3/8	5	1 3/4	.16	P14	12
5/32	3/8	5	1 3/4	.16	P15	12
3/16	3/8	5	1 1/2	.16	P16	12
1/4	3/8	6	1 1/2	.16	P18	12
5/16	1/2	6	2	.31	P19	12

Long Taper Punch

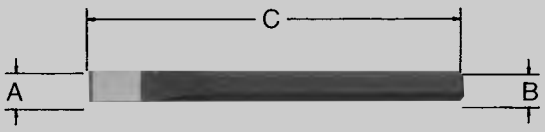


Point Size	Stock Size	Length	Taper Length	Wt. Ea. Lbs.	Industrial Black	Std. Pkg. Qty.
A	B	C	D		Part No.	
3/32	5/16	8	3 1/2	.12	P23	12
1/8	5/16	8	3 1/2	.16	P24	12
5/32	3/8	9	4 1/4	.25	P25	12
3/16	1/2	10	6 1/2	.45	P26	12
7/32	1/2	10	6 1/2	.45	P26A	12
1/4	5/8	12	7 1/4	.88	P27	6
5/16	5/8	12	7 1/4	.94	P28	6
1/4	3/4	15	7 1/4	1.66	P28A	6
5/16	5/8	16	9 1/2	1.33	P29	6
3/8	3/4	15	8	1.66	P34	6

Chisels

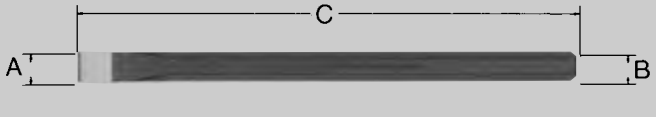
WARNING: "ALWAYS WEAR SAFETY GOGGLES"

Cold Chisel



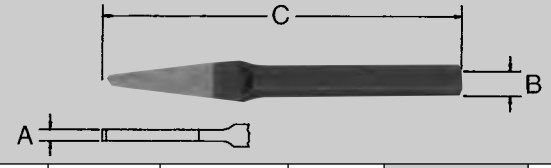
Cut Width A	Stock Size B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.
¼	¼	5	.07	C8	12
5/16	¼	5	.08	C10	12
⅜	5/16	5½	.13	C12	12
½	7/16	6	.26	C16	12
⅝	½	6½	.37	C20	12
¾	⅝	7	.62	C24	12
⅞	¾	7½	.93	C28	6
1	⅞	8	1.34	C32	6

Long Cold Chisel



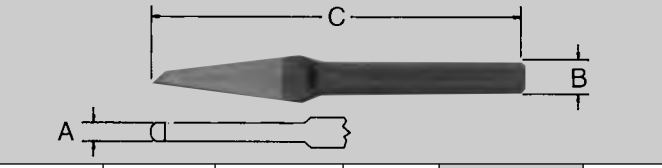
Cut Width A	Stock Size B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.
¾	⅝	12	1.13	C120	6
⅝	½	12	.70	C124	12
¾	⅝	18	1.67	C126	3
⅞	¾	12	1.50	C129	6
1	¾	12	1.50	C132	6
1	¾	18	2.33	C133	3

Cape Chisel



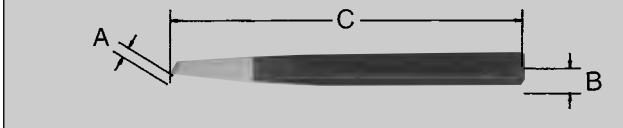
Point Size A	Stock Size B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.
⅛	5/16	5½	.10	C39	12
3/16	⅜	5½	.16	C40	12
¼	⅜	5½	.29	C42	12

Half Round Chisel



Point Size A	Stock Size B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.
3/16	⅜	5½	.16	C71	12
¼	⅜	5½	.29	C72	12

Diamond Point Chisel



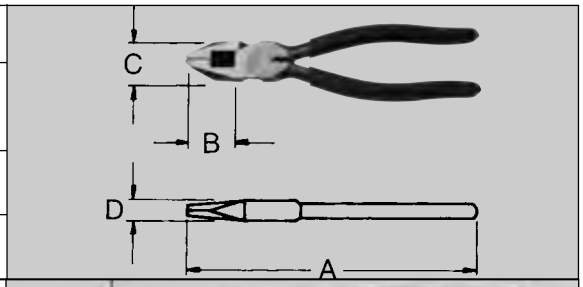
Point Size A	Stock Size B	Length C	Wt. Ea. Lbs.	Industrial Black Part No.	Std. Pkg. Qty.
⅛	5/16	5	.10	C58	12
3/16	⅜	5½	.18	C59	12
¼	⅜	5¾	.18	C60	12
⅜	⅝	7	.58	C62	6

Pliers – Plastic Grip

Lineman's Plier

Overall Length A	Jaw Length B	Jaw Width C	Jaw Thickness D	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
7-1/4	1-1/4	15/16	9/16	0.68	P307	6
8-1/2	1-1/2	1-1/4	9/16	1.00	P308	6

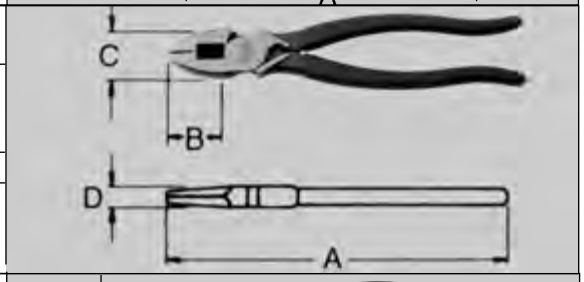
High leverage electrician's general use pliers feature beveld nose, serrated crush area and comfort grip handles.



New England Pattern Lineman's Plier

Overall Length A	Jaw Length B	Jaw Width C	Jaw Thickness D	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
9-1/2	1-1/2	1-5/16	5/8	1.04	P309	6

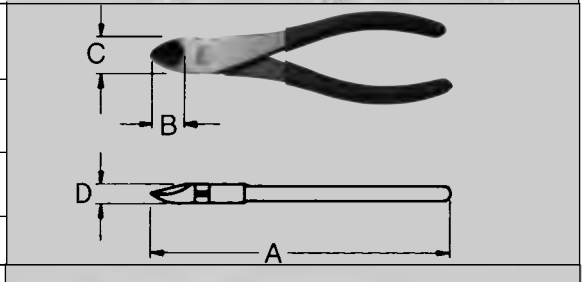
Heavy duty, high leverage design features built in connector crimper, fishtape puller, serrated crush area and comfort grips.



Diagonal Cutting Plier

Overall Length A	Jaw Length B	Jaw Width C	Jaw Thickness D	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
6-1/4	7/8	25/32	7/16	0.38	P206	6
7-3/8	1	7/8	7/16	0.52	P2075	6

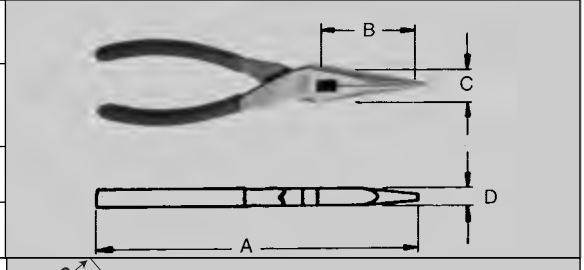
High leverage comfort grip handles decrease fatigue for easy cutting.



Long Chain Nose Side Cutting Pliers

Overall Length A	Jaw Length B	Jaw Width C	Jaw Thickness D	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
6-1/4	2	7/8	13/32	0.32	P506	6
7-7/8	2-5/8	1	7/16	0.49	P507	6

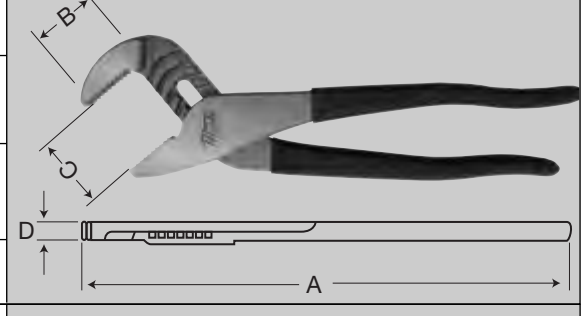
High leverage comfort grip handles for powerful gripping and cutting.



Tongue and Groove Pliers

Overall Length A	Jaw Length B	Jaw Opening C	Jaw Thickness D	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
7	13/16	13/16	3/8	0.42	P407	6
9-3/4	1-1/4	1-1/2	7/16	0.92	P510	6
12-7/8	1-11/16	2-3/4	1/2	1.76	P71275	6

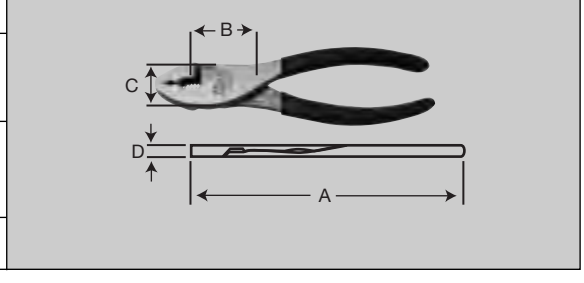
Flush Rivet design allows close access to work surfaces and tight areas, undercut adjustment grooves for non-slip grip and comfort grip handles



Combination Slip Joint Pliers

Overall Length A	Jaw Length B	Jaw Width C	Jaw Thickness D	Wt. Ea. Lbs.	Part No.	Std. Pkg. Qty.
6-3/4	1-13/16	1-1/4	13/32	0.48	P2065	6
8-1/4	2	1-11/32	7/16	0.60	P208	6
10	2-3/8	1-1/2	15/32	0.98	P210	6

Flush rivet design offers three working surfaces, two jaw openings, wire cutter and comfort grips.



Pliers Sets



PL3K
3 Pc. General Purpose Pliers Set

P506	6¼" Long Chain Nose Side Cutting
P2065	6¾" Combination Slip Joint
P510	9¾" Tongue and Groove
P1796	Pouch



PL4K
4 Pc. General Purpose Pliers Set

P507	7⅞" Long Chain Nose Side Cutting
P510	9¾" Tongue and Groove
P208	8" Combination Slip Joint
P2075	7⅜" Diagonal Cutting
P1996	Pouch



PL3KSJ
3 Pc. Combination Slip-Joint Pliers Set

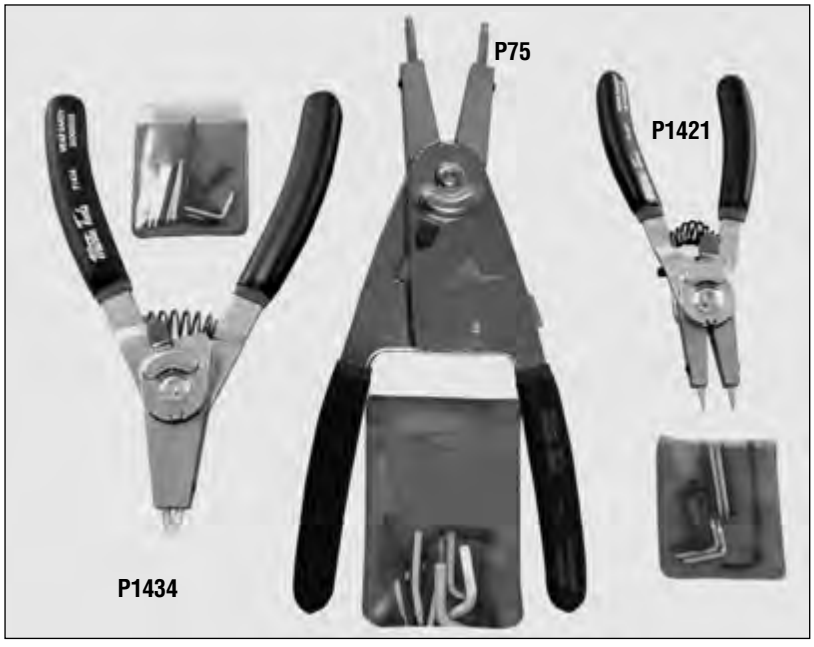
P2065	6¾" Combination Slip Joint
P208	8¼" Combination Slip Joint
P210	10" Combination Slip Joint
P1896	Pouch



PL3KTG
3 Pc. Tongue and Groove Pliers Set

P407	7" Tongue and Groove
P510	9¾" Tongue and Groove
P71275	12⅞" Tongue and Groove
P2096	Pouch

Retaining Ring Pliers



One Tool Does it All!

Martin's patened retaining ring pliers are capable of servicing both internal and external retaining rings. Martin's pliers offer superior performance with unique features:

- Reverse on the fly — Switch from Internal to External with one hand.
- Patented Jaws provide positive tip retention and alignment.
- P1421 features an adjustable stop for small rings.
- P75 features an automatic ratchet lock that keeps rings locked open or closed. Ideal for large rings up to 4".

Snap Ring Ring Pliers

Part Number	Description	Internal	External	Weight Ea. Lbs.	Std. Pkg.` Qty.
P1421	Quick Switch Retaining Ring Pliers with adjustable stop - Includes 5 pairs of color-coded interchangeable tips and Allen wrench in handy pouch.	¼" - 1" mm - 26mm	⅛" - 1" 3mm - 26mm	0.3	6
	Tip sizes: Straight- .023", .036", .047" (0.6mm, 0.9mm, 1.2mm) Bent 90º - .036", .047" (0.9mm, 1.2mm)				
P1434	Quick Switch Retaining Ring Pliers - Includes 5 pairs of color-coded interchangeable tips and Allen wrench in handy pouch.	⅜" - 2" 10mm - 51mm	¼" - 2" 7mm - 51mm	0.6	6
	Tip sizes: Straight- .036", .047", .070" (0.9mm, 1.2mm, 1.8mm) Bent 90º - .036", .047" (0.9mm, 1.2mm)				
P75	Quick Switch Ratcheting Plier - Includes 6 pairs of color-coded interchangeable tips and Allen wrench in handy pouch.	1 13/16" - 4" 46mm - 102mm	1½" - 4" 32mm - 102mm	1.18	6
	Tip sizes: Bent 15º- .090", 1.08", .120" (2.3mm, 2.7mm, 3.0mm) Bent 90º - .090", .108", .120" (2.3mm, 2.7mm, 3.0mm).				
P87	Retaining Ring Tool - Includes 6 pairs of color-coded interchangeable tips and Allen wrench in handy pouch.	3½" - 7" 90mm - 175mm	3½" - 7" 90mm - 175mm	3.05	6
	Tip sizes: Bent 20º- .120", .150", .180" (3.0mm, 3.8mm, 4.6mm) Bent 90º - .120", .150", .180" (3.0mm, 2.8mm, 4.6mm).				

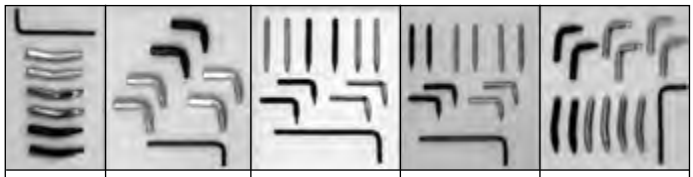
Snap Ring Plier Sets

PL1450K	2 Piece Snap Ring Plier Set w/ Molded Foam Tray Includes P1421 & P1434	1.20	1
PL1465K	3 Piece Snap Ring Plier Set w/ Plastic Box Includes P1421, P1434 & P75	3.50	1



Tip Kits

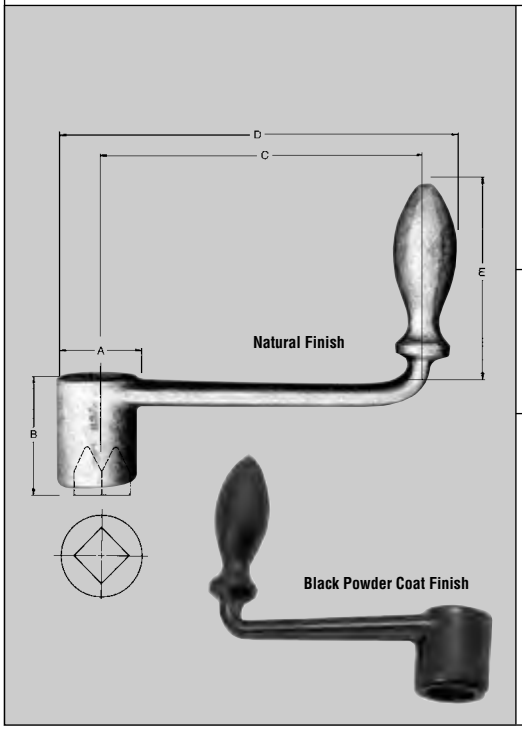
Part No.	Description	Contents	Wt.
P12K	Tip Kit for P1221 & P1421	5 Tips & Allen Wrench in a Pouch	0.04
P14K	Tip Kit for P1234 & PP1434	5 Tips & Allen Wrench in a Pouch	0.04
P651590K	Tip Kit for P65 & P75	5 Tips & Allen Wrench in a Pouch	0.12
P8720K	Tip Kit 20º for P87	3–20º Tips & Allen Wrench in a Pouch	0.12
P8790K	Tip Kit 90º for P87	3–90º Tips & Allen Wrench in a Pouch	0.12



P8720K	P8790K	P12K	P14K	P651590K

Crank Handles

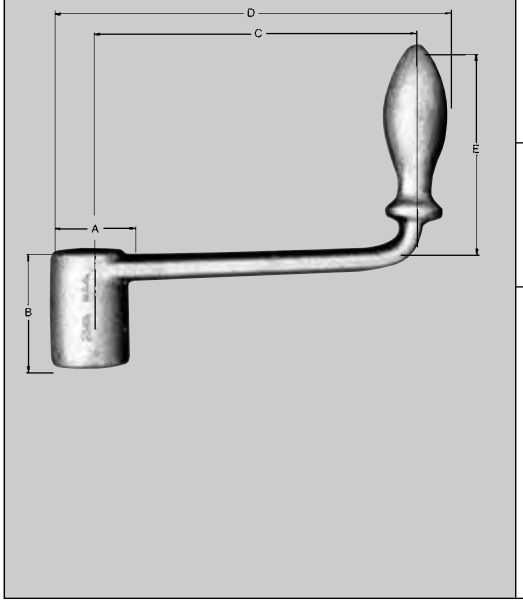
Broached Crank Handles



Square Broached Openings, with Counterbore in Free End of Hub. Special Bends, Offsets, and Broached Openings Also Available.

Stock Square Bore	Hub		Length		Height Handle Above Arm	Wt. Ea. Lbs.	Black Powder Coat Finish	Natural Finish	Std. Pkg. Qty.
	Dia.	Length	Center Hub to Center Handle	Overall					
	A	B	C	D	E		Part No.	Part No.	
½	1	1¼	1¾	2⅝	2⅜	.46	CH00BC	CH00B	1
½	1	1¼	2¼	3⅛	2½	.53	CH0BC	CH0B	1
9/16	1¼	1½	3	4 1/16	2¾	.83	CH1BC	CH1B	1
½	1 1/16	1 5/16	3½	4½	3	.74	CH2BC	CH2B	1
9/16	1¼	1⅜	4	5⅛	3⅛	1.0	CH4BC	CH4B	1
⅝	1¼	1 13/16	5	6⅛	3⅛	1.3	CH6BC	CH6B	1
11/16	1¼	2	6	7⅛	3⅛	1.4	CH8BC	CH8B	1
¾	1⅜	2 1/16	7	8¼	3⅜	1.6	CH10BC	CH10B	1
⅞	1 9/16	2 7/16	8	9⅜	3⅝	2.3	CH12BC	CH12B	1
⅞	1½	2½	9⅛	10½	3¾	2.7	CH14BC	CH14B	1
1	1¾	3	10	11½	4	3.6	CH16BC	CH16B	1

Unfinished Crank Handles



Unfinished Cranks are Plain Forgings Without a Hole in the Hub.

Max Square Bore	Hub		Length		Height Handle Above Arm	Wt. Ea. Lbs.	Natural Finish	Std. Pkg. Qty.
	Dia.	Length	Center Hub to Center Handle	Overall				
	A	B	C	D	E		Part No.	
⅝	1	1¼	1¾	2⅝	2⅜	.46	CH00U	1
⅝	1	1¼	2¼	3⅛	2½	.53	CH0U	1
13/16	1¼	1½	3	4 1/16	2¾	.83	CH1U	1
⅝	1 1/16	1 5/16	3½	4½	3	.74	CH2U	1
13/16	1¼	1⅜	4	5⅛	3⅛	1.0	CH4U	1
13/16	1¼	1 13/16	5	6⅛	3⅛	1.3	CH6U	1
13/16	1¼	2	6	7⅛	3⅛	1.4	CH8U	1
⅞	1⅜	2 1/16	7	8¼	3⅜	1.6	CH10U	1
1	1 9/16	2 7/16	8	9⅜	3⅝	2.3	CH12U	1
1	1½	2½	9⅛	10½	3¾	2.7	CH14U	1
1⅛	1¾	3	10	11½	4	3.6	CH16U	1

Extra Deep Throat, Copper Plated Fatigue Proof Spindles, Permanent Type Pads.

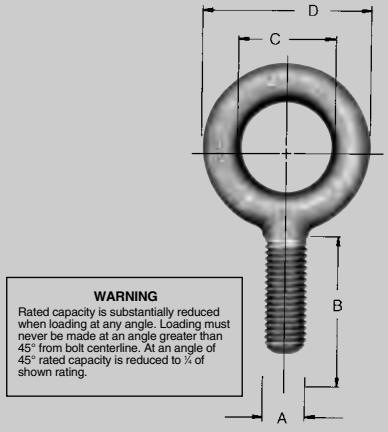
Inch Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test	Weight Each-Lbs.	Part Number	Std. Pkg. Qty.
0-2	2	½	3500 lbs.	1.4	CC402	1
0-3	2⅜	½	3500 lbs.	2.2	CC403	1
0-4	2¾	¾	6500 lbs.	3.4	CC404	1
0-6	3⅝	¾	6900 lbs.	5.0	CC406	1
0-8	4½	¾	6900 lbs.	7.8	CC408	1
0-10	5⅜	¾	8000 lbs.	11.0	CC410	1
0-12	5¾	⅞	9500 lbs.	15.8	CC412	1



EXTRA DEEP THROAT CLAMP

Shot Blasted Finish Meets ANSI B18.15-1985

A	Threads/ Inch	B	Eye		*Rated Capacity	Weight Each-Lbs.	Part Number	Std. Pkg. Qty.
			C	D				
¼	20	1	¾	1 3/16	500	.06	EB1	1
5/16	18	1⅛	⅞	1 7/16	900	.10	EB2	1
⅜	16	1¼	1	1 11/16	1300	.15	EB3	1
7/16	14	1⅜	1 1/16	1 13/16	1800	.21	EB4	1
½	13	1½	1 3/16	2⅛	2400	.30	EB5	1
9/16	12	1¾	1¼	2¼	3000	.55	EB6	1
⅝	11	1¾	1⅜	2 5/16	4000	.61	EB7	1
¾	10	2	1½	2 13/16	5000	.98	EB8	1
⅞	9	2¼	1⅝	3 3/16	7000	1.53	EB9	1
1	8	2½	1¾	3 5/16	9000	2.06	EB10	1
1⅛	7	2¾	2	4	12000	2.90	EB11	1
1¼	7	3	2 5/16	4 7/16	15000	4.11	EB12	1
1½	6	3½	2½	5 5/16	21000	6.73	EB14	1

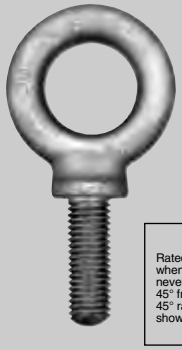


WARNING
Rated capacity is substantially reduced when loading at any angle. Loading must never be made at an angle greater than 45° from bolt centerline. At an angle of 45° rated capacity is reduced to ¼ of shown rating.

EYEBOLTS PLAIN PATTERN

Shot Blasted Finish Meets ANSI B18.15-1985

A	Threads/ Inch	B	Eye		E	*Rated Cpcty.-Lbs.	Weight Each-Lbs.	Part Number	Std. Pkg. Qty.
			C	D					
¼	20	1	¾	1 3/16	1 1/16	500	.06	EB21	1
5/16	18	1⅛	⅞	1 7/16	⅞	900	.11	EB22	1
⅜	16	1¼	1	1 11/16	1 1/16	1300	.18	EB23	1
7/16	14	1⅜	1 1/16	1 13/16	1 3/16	1800	.23	EB24	1
½	13	1½	1 3/16	2⅛	1 5/16	2400	.35	EB25	1
9/16	12	1⅝	1¼	2¼	1½	3000	.47	EB26	1
⅝	11	1¾	1⅜	2 5/16	1 19/32	4000	.70	EB27	1
¾	10	2	1½	2 13/16	1 23/32	5000	1.10	EB28	1
⅞	9	2¼	1 11/16	3 3/16	2 1/32	7000	1.70	EB29	1
1	8	2½	1 13/16	3 5/16	2 7/32	9000	2.36	EB30	1
1⅛	7	2¾	2	4 1/16	2 19/32	12000	3.41	EB31	1
1¼	7	3	2 3/16	4 7/16	2 27/32	15000	4.68	EB32	1
1½	6	3½	2½	5 5/16	3 3/16	21000	7.77	EB34	1



WARNING
Rated capacity is substantially reduced when loading at any angle. Loading must never be made at an angle greater than 45° from bolt centerline. At an angle of 45° rated capacity is reduced to ¼ of shown rating.

EYEBOLTS SHOULDER PATTERN

Pinch or Pry Bar



Size	Length	Wt. Ea. Lbs.	Bright Zinc	Industrial Black	Std. Pkg. Qty.
			Part No.	Part No.	
⅝	16	1.3	196C	196	1
¾	24	3.0	197C	197	1
⅞	30	5.25	198C	198	1

Die Bar — Pry Bar



Size	Length	Wt. Ea. Lbs.	Chrome	Industrial Black	Std. Pkg. Qty.
			Part No.	Part No.	
½	12	.70	192C	192	1
½	15	.87	193C	193	1
⅝	18	1.6	194C	194	1

WARNING: Never substitute a pry bar with a screwdriver. "ALWAYS WEAR SAFETY GOGGLES"

Tool Boxes & Kit Bags



KIT BAGS

No. of Pouches	Length (inches)	Height (inches)	Wt. (Lbs.)	Part Number
14	22⅝	15⅛	.35	C14
5	19½	40¼	.83	C55
6	15⅝	21¼	.34	C60B
6	8	12⅜	.12	C66
7	13½	11⅛	.18	C70
8	19¾	19½	.39	C81
9	17½	15	.28	C90
11	25½	23⅜	.61	C110
11	24½	17⅝	.43	C111
14	29½	30⅛	.84	C140
15	28	29¾	.84	C150
18	34½	24¼	.89	C180
5	9¾	15½	.17	C185
7	13⅜	16½	.24	C187
1	8⅛	2 15/16	.04	C591
1	5⅝	2¾	.03	C691
1	4⅜	2 3/16	.02	C791



TOOL BOXES

Width	Depth	Height	Wt.	Part No.
16	7	7½	5.10	BX18
19 7/64	7	7½	7.00	BX21
26 7/64	12 7/64	15	51.00	BX26



SOCKET BOXES

Width	Depth	Height	Wt.	Part No.
9½	3¾	1½	1.24	93
16 13/16	3¾	1½	2.00	94
18¼	3¾	2	2.39	95
25½	5¼	3	6.24	96A
14¼	4¾	2	1.88	98
19¼	5 11/16	2	3.36	99
26¼	8 3/16	3⅜	15.15	237
31	11½	4⅜	21.50	299

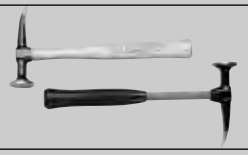
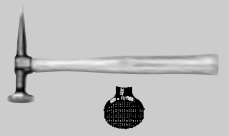
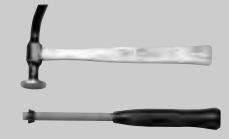
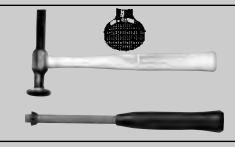
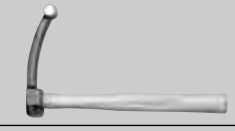


CLIP RAILS

Length	Color	Drive	Wt.	Part No.
8"	Blue			208B
8"	Red			208R
13"	Blue			213B
13"	Red			213R
18"	Blue			218B
18"	Red			218R
	Black	3/8"		238T
	Black	1/2"		212T
	Black	3/4"		234T

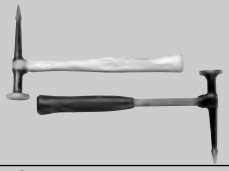
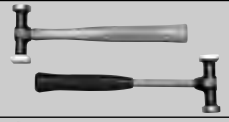
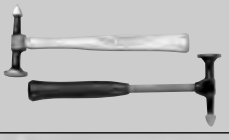
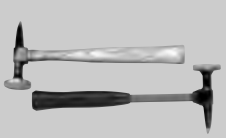
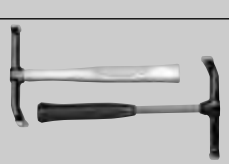
Body Hammers

Only Martin Provides This Added Warranty — If a Hammer Head Should Loosen at Any Time, Return It for Handle Replacement or a New Hammer.

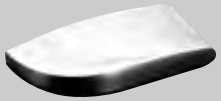
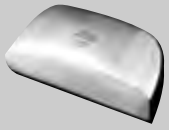
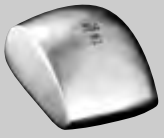
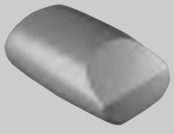
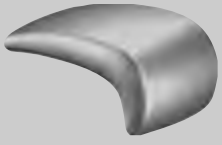
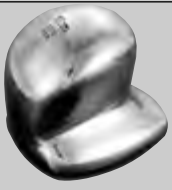
Type		Description	Body Hammers Part No.		Std. Pkg. Qty.
			Wood Handles	Fiberglass Handles	
DINGING HAMMER		For fender and high-crowned panel dinging or bumping. Both high and low-crown faces for "on or off dolly" work. **Faces, 1¼" and 1⁹⁄₁₆". Round heads, 6" overall. Weight 1.04 lbs.**	150G	150FG	6
DINGING HAMMER		For light dinging and long reach. Square face permits dinging close to moulding or beading. **Faces, 1¼" round, 1⁹⁄₁₆" square head 6" overall. Weight .85 lbs.**	151G	—	6
HIGH CROWN CROSS PEEN HAMMER		Two high-crowned faces for concave surfaces on doors, rear quarter panels, fenders and hoods. **Faces 1⅛", 6" overall. Weight 1.02 lbs.**	152G	—	6
CROSS CHISEL HAMMER		Excellent for finishing. Cross peen used for working in sharp corners around mouldings and for caulking. **Round face — 1⁹⁄₁₆" diameter. Chisel — 3" long. Weight .87 lbs.**	153G	153FG	6
CURVED CROSS CHISEL HAMMER		Excellent for finishing. Cross peen used for working in sharp corners around mouldings and for caulking. Well balanced curved chisel for work in close places. **Round face — 1⁹⁄₁₆" diameter. Chisel — 3" long. Weight .85 lbs.**	153GB	153FGB	6
CROSS CHISEL SHRINKING HAMMER		Cross grooved. Extra wide faces are cross grooved and used for shrinkage on large sufaces — chisel end used on sharp corners. **Flat round face — 1⁹⁄₁₆" diameter. Chisel — 3" long. Weight .87 lbs.**	153S	—	6
VERTICAL CHISEL HAMMER		Excellent for finishing. Cross peen used for working in sharp corners around mouldings and for caulking. Vertical chisel end used on sharp corners. **Round face — 1½" diameter. ⅝" Chisel — 5½" long. Weight .85 lbs.**	154G	154FG	6
VERTICAL CHISEL SHRINKING HAMMER		Cross grooved. Extra wide faces are cross grooved and used for shrinkage on large sufaces — vertical chisel end used on sharp corners. **Round face — 1½" diameter. Chisel — 5½" long. Weight .87 lbs.**	154S	154SFG	6
FENDER BUMPER		For bumping where hand and dolly cannot reach. Ample clearance for obstructions. Also used as a caulking iron. **Length of head, 8¾". Weight 2.8 lbs.**	155G	155FG	4
PICK HAMMER		Long-reach, thin point for low spot on low-crown panels. Reaches over inner obstructions. One high-crown face. **Face, 1¼" round point, ¹⁄₃₂" radius. Length of pointed end, 5½". Weight .91 lbs.**	156G	156FG	6
CURVED PICK HAMMER		Like 156G except pick end is bent in arc of normal blow. Reaches behind reinforcements to difficult spots. **Face, 1¼" round point, ¹⁄₃₂" radius. Length of pointed end, 5½". Weight .86 lbs.**	156GB	—	6

Body Hammers

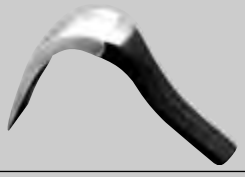
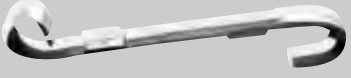
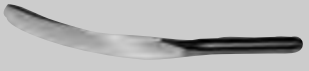
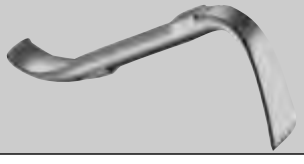
**Only Martin Provides This Added Warranty —
If a Hammer Head Should Loosen at Any Time, Return
It for Handle Replacement or a New Hammer.**

Type		Description	Body Hammers Part No.		Std. Pkg. Qty.
			Wood Handles	Fiberglass Handles	
GENERAL PURPOSE PICK HAMMER		Medium size point and reach for general work. Low crown strawberry point for perfect balance. **Face, 1 9/16" round point, 3/32" radius. Length of pick end, 3 3/4". Weight .91 lbs.**	158G	158FG	6
ROUND POINT FINISHING HAMMER		Blunt point — long reach. For low spots on high crown panels and other work with long reach. Will not pick holes in the metal. **Round face — 1 9/16" diameter. Blunt point 3" long. Weight .81 lbs.**	158GM	158FGM	6
SHARP POINT FINISHING HAMMER		Sharp point — long reach. For low spots on high crown panels and other work with long reach. **Round face — 1 9/16" diameter. Sharp point 3" long. Weight .79 lbs.**	158GMS	—	6
HEAVY DUTY BUMPING HAMMER		For heavy gauge truck fenders and panels. Also used in straightening reinforcements, braces, etc. **Faces, 1 1/4" round and 1 3/16" square head, 4" overall. Weight 1.1 lbs.**	160G	160FG	6
DINGING HAMMER		Short-reach, lightweight. One low-crown, square face. Lightest dinging hammer in line. **Faces, 1 1/4" round and 1 3/16" square. Head, 4" overall. Weight .83 lbs.**	161G	161FG	6
SHRINKING HAMMER		For work in close quarters. Expertly machined serrations on the round face. **Plain square face, 1 1/8" round serrated face, 1 1/4" diameter. 4" overall. Weight .78 lbs.**	162G	162FG	6
UTILITY PICK HAMMER		Blunt point, short reach. For low spots in high-crown panels and other work with small clearance. **Face, 1 9/16" round point, 5/32" radius. Length of pointed end, 2" head, 4" overall. Weight .75 lbs.**	164G	164FG	6
PICK HAMMER		Lightweight. Provides stubby pick point and high-crown peen-type faces. Will ding out small dents in high fins. No need to remove panels. **Long reach, 18" handle. Weight 5 oz.**	165G	—	6
PICK HAMMER		Lightweight. Provides stubby pick point and high-crown peen-type faces. Will ding out small dents in high fins. No need to remove panels. **12" handle. Weight 4 oz.**	166G	—	6
CROSS PEEN FINISHING HAMMER		Used to bump odd fender or bumper contours. **Round face — 1 9/16" diameter peen end 3/16 × 7/8". 5" overall head length. 12" handle. Weight .91 lbs.**	168G	168FG	6
HIGH CROWN CROSS PEEN FINISHING HAMMER		Ideal for forming radiuses, contours and curves-restoration, bike tanks. **High Crown face — 1 1/8" diameter. 2 1/4" radius. Peen end 3/16" x 1". 5" overall head length. 12" handle. Weight 1.0 lbs.**	168HC	168HCFG	6
LARGE FACE PICK FINISHING HAMMER		For finishing and caulking. **Round face — 1 7/8" diameter. 4 1/2" overall head length. 13" handle. Weight 1.0 lbs.**	169G	169FG	6
DOOR SKIN HAMMER		Rectangular heads fit in door flanges. Bent Head - medium crown - starts door skin fold. Straight head - high crown - for finishing. **12" overall length. Weight .94 lbs.**	170G	170FG	6

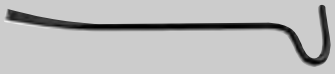
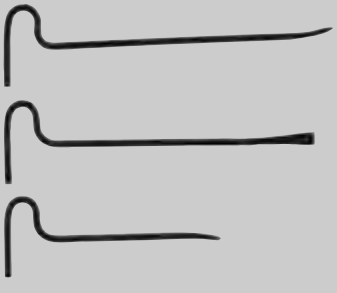
Body and Fender Repair Tools
Dolly Blocks

Type		Description	Part No.	Std. Pkg. Qty.
LIGHT WEIGHT TOE DOLLY		Designed for flat surfaces. All the features of a toe dolly. **Sizes 4¾" × 2¼" × 1 1/16". Weight 1.8 lbs.**	1057	1
TOE DOLLY		Thinness and length provide easy accessibility to narrow pockets. Large, flat face is frequently used in shrinking and dinging flat panels. The flat sides furnish a convenient anvil for repairing flanges. **Sizes 4¾" × 2⅜" × 1⅛". Weight 3.0 lbs.**	1058	1
SHRINKING DOLLY (SERRATED)		Shaped like a toe dolly but has one face covered with raised serrations for shrinking metal stretched by dents. **Weight 3.4 lbs.**	1058S	1
HEEL DOLLY		Design makes it possible to reach easily into sharp corners and wide radii. These features are exclusive to the Heel Dolly and continue its high demand. **Sizes 3¼" × 2½" × 1 7/16". Weight 2.7 lbs.**	1059	1
GENERAL PURPOSE DOLLY		Provides convenient and comfortable hand hold during heaviest blows. Weight, balance and several differently crowned working faces, together with two beading and flange lips, give this dolly broad general use. **Sizes 2⅞" × 2⅜" × 2¼". Weight 3 lbs.**	1060	1
UTILITY DOLLY		High-crown dolly with one narrow beading edge. Thick rounded sides are useful in short radii curves. Wide application of uses in high-crown portions of hoods, fenders and body panels. **Sizes 3⅛" × 3" × 1⅝". Weight 2.9 lbs.**	1061	1
EGG SHAPED DOLLY		This unique shape with high crown design is a very popular shape, with many different curves and angles. **Sizes 1⅝" × 2½" × 3¾". Weight 3.1 lbs.**	1064	1
LIGHT WEIGHT WEDGE DOLLY		Short, slender general purpose Dolly. Good hand grip. Also used for beads or flanges on fenders. Thin edge is useful for corners and beading. Flat side works under long curve of fender **Size 2 7/64" × 2½" × 4 27/64". Weight 2.7 lbs.**	1065	1
WEDGE DOLLY		Long, slender general purpose dolly. Widely favored by many body repair men for all-around use. The long, thin lip is very useful in working behind reinforcements. **Sizes 5¾" × 2⅜" × 2 3/16". Weight 4 lbs.**	1067	1
LOW CROWN DOLLY		Specially designed for use on low-crown panels where medium and high-crown dollies would stretch the metal. Angle between the sides and large face is less than 90°, which permits this dolly to reach into the corner of a flanged edge. **Size 3⅞" × 2¾" × 1⅝". Weight 3.3 lbs.**	1068	1
"CHAMPION" HEAVYWEIGHT DOLLY		Heavy duty, general purpose fender dolly. A necessity on heavy gauge fenders which resist the blows of lighter dollies. Brings out the toughest damage. Seats comfortably in the hand and protects fingers from a swinging blow. **Sizes 3⅜" × 3⅜" × 2 11/16". Weight 4.6 lbs.**	1070	1

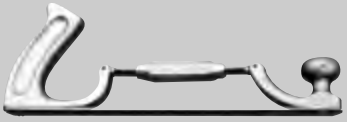
Body and Fender Repair Tools
Body Spoons

Type		Description	Part No.	Std. Pkg. Qty.
LIGHT DINGING SPOON		To ding ridges smooth and level. When held against ridge and struck with hammer, spreads blow over large area making smooth job and preventing damage to metal or finish. Not made for prying. **Length 10" overall. Face 2" × 4⅝". Weight .50 lbs.**	1036	6
COMBINATION SPOON		General purpose fender spoon. Used as dolly behind brackets, inner panels and similar places. Handle offset to give balance when dinging and for long reach. Has high-crown working surface. **Face 1¾" × 5½". Handle 1" octagon 4¾" long. Weight 3.0 lbs.**	1050	4
SPOON DOLLY		Long handle permits many uses in places otherwise inaccessible. Can be driven between reinforcements and outer panel, then used to pry outward as the metal is dinged. Excellent forming and caulking tool for the deep pockets of doors, quarter-panels, rear fenders and lower trunk panels. **Size 2½" × 1" × 3". Weight 4.2 lbs.**	1052	1
LONG CURVED SPOON		Long, thin, curved blade is handy for prying up dents behind curved reinforcements in header panels, hinge anchors in doors, body pillars and reinforcements in hoods and radiator shells. **Length 10½" overall. Face 2" × 7". Weight 1.5 lbs.**	1054	6
WING-DING SPOON DOLLY		The answer to repair problems on high fins. A dolly, a spoon, a pry. Long handle and special contours for working up inside cramped fins. Wide spoon transmits hammer blows over wide area without damaging finish. **1" handle diameter, 19" overall length. Weight 4.5 lbs.**	1056	1
HEAVY DUTY DRIVING AND FENDER BENDING TOOL		Useful for restoration of turned under, non-wired flanged edges. Also handy for alignment of inner construction and flanges on alligator hoods. Heavy formed striking pads. **Length 14⅛". Weight 3.2 lbs.**	1091	1
CAULKING IRON		Excellent precision made wire caulking iron. Polished working surfaces are rounded for use on inside moldings. **Face 1¾" × 1". Overall length 11". Weight 1.4 lbs.**	1096C	6
SURFACING SPOON		Excellent spoon for fender spring hammering, finishing and shaping. Curve gets behind inner construction between panels that are close for removal of dents. Molds panels. Blade fully polished. **9" Blade Length. 2⅛" Width. Overall Length 15⅛". Weight 2.5 lbs.**	1024	1
MEDIUM CROWN SPOON		Long slender shape just like the 1024 surfacing spoon. Inside with medium crown, for high ridges or prying. For slapping and surface finishing on fenders, panels and trunk lids. Blade fully polished. **9" Blade Length. 2⅛" Width. Overall Length 14⅞". Weight 1.5 lbs.**	1026	1
HEAVY DUTY DOUBLE END S-SPOON		General purpose fender and frame spoon. Designed to provide further reach on panels and behind reinforcements. Prying, heavy duty design for use on SUV frames. **12 3/16" Length. 1⅜ X5¼" Face. Weight 3.0 lbs.**	1044	1

Body and Fender Repair Tools
Body Picks

Type		Description	Part No.	Std. Pkg. Qty.
MEDIUM CURVED PICK		Medium length. Curved and pointed. Use twisting or prying action. **Length 26½". Weight 2.2 lbs.**	1106	1
LONG CURVED PICK		Long length. Curved and pointed. Use twisting or prying action. **Length 31". Weight 2.5 lbs.**	1107	1
LONG CHISEL BIT PICK		Heavy duty. Employ twisting action. **Chisel bit 1". Length 20". Weight 1.9 lbs.**	1109	1
SHORT CURVED PICK		Extremely short length. Curved and pointed. Use twisting or prying action. **Length 12". Weight .5 lbs.**	1110	1
MEDIUM SHORT CURVED PICK		Short length. Curved and pointed. Use twisting or prying action. **Length 18". Weight .7 lbs.**	1111	1
LIGHT CHISEL BIT PICK		Light duty. Employ twisting action. **Chisel bit 1/16". Length 16". Weight .7 lbs.**	1112	1
LIGHT CHISEL BIT PICK SET		Body Pick Chisel set includes: **12" Pick, 18" Pick, 16" Pick. Weight 1.9 lbs.**	1000PK	1

Body and Fender Repair Tools
Miscellaneous Tools

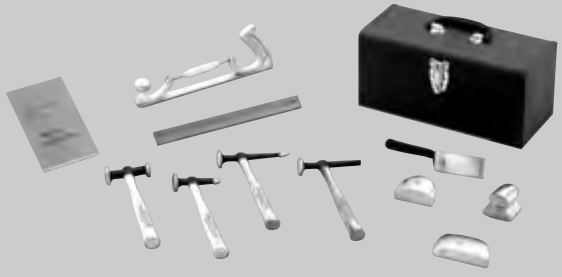
Type		Description	Part No.	Std. Pkg. Qty.
ADJUSTABLE AND FLEXIBLE FILE HOLDERS		Permits use of files to 14". Handle adjustable for both right and left hand use for working close to offset or panels. Permit flexing either way to maximum point of safety against breakage. **Weight 1.7 lbs.**	1150	1
STANDARD 14" BODY FILE		Vixen milled, curved tooth. Plain blade. Flexible, standard cut, 8 tooth. **14" long. Weight .66 lbs.**	1158F	5
STRAIGHT SHELL BODY FILE		Vixen milled, curved tooth. Plain blade. Half round shell, 8 tooth. Concave for shallow concave work.**14" long. Weight .66 lbs.**	1163F	5
BODY DENT PULLER TOOL		Slide hammer activated. This tool provides a remarkably simple and easy method of removing a dent in a door or panel. Merely punch or drill a hole in the deepest part of the damage and insert a self-threading screw or hook. A few light impacts with the slide hammer will return the metal to original position. Shaft is ½" × 13" with locking device to keep screw from turning. Cadmium and black oxide rust-proof finish. **Weight 3.9 lbs.**	DP38	1
THE KEY TO METAL BUMPING		This book, entitled "The Key to Metal Bumping," is an excellent instruction manual and guide for every body man or student. It provides authoritative reference for techniques and methods for all phases of body and fender work. Its 126 pages cover most approaches to body repair problems. Visual assistance is rendered by more than 100 illustrations. It includes explanations of many time-saving short-cut methods to make the job easier and better. Among other features is a glossary of terms used in the trade. This is the third edition. The first was published in the late thirties and over the years has enjoyed widespread acceptance and usage as a guide and test by many public, private and trade schools. It is a perfect "tool of the trade" for the student and journeyman alike.	BFB	1

Body and Fender Repair Tools
Tool Sets

Body and Fender Repair Tool Sets

PART NO.	659 K
153G	Cross Chisel Straight Hammer
158G	General Purpose Pick Hammer
160G	Heavy Duty Bumping Hammer
164G	Utility Pick Hammer
1058	Toe Dolly Block
1059	Heel Dolly Block
1060	General Purpose Dolly Block
1036	Light Dinging Spoon
1150	Adjustable File Holder
1158F	Body File Standard 14"
BFB	Instruction Manual
BX18	Tool Box

10 TOOLS



PART NO.	691 K
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156G	Pick Hammer
158G	General Purpose Pick Hammer
160G	Heavy Duty Bumping Hammer
161G	Dinging Hammer
164G	Utility Pick Hammer
1058	Toe Dolly Block
1059	Heel Dolly Block
1060	General Purpose Dolly Block
1036	Light Dinging Spoon
1052	Spoon Dolly
1050	Combination Spoon
1150	Adjustable File Holder
1158F	Body File Standard 14"
162G	Shrinking Hammer
BFB	Instruction Manual
BX18	Tool Box

15 TOOLS



PART NO.	692 K
150G	Dinging Hammer
153G	Cross Chisel Straight Hammer
153GB	Cross Chisel Curved Hammer
155G	Fender Bumper
156G	Pick Hammer
156GB	Curved Pick Hammer
158G	General Purpose Pick Hammer
160G	Heavy Duty Bumping Hammer
161G	Dinging Hammer
162G	Shrinking Hammer
164G	Utility Pick Hammer
168G	Cross Peen Finishing Hammer
169G	Large Face Pick Finishing Hammer
1036	Light Dinging Spoon
1050	Combination Spoon
1052	Spoon Dolly
1054	Long Curved Spoon
1058	Toe Dolly Block
1059	Heel Dolly Block
1060	General Purpose Dolly Block
1061	Utility Dolly Block
1068	Low Crown Dolly Block
1091	Heavy Duty Driving Spoon
1150	Adjustable File Holder
1158F	Body File Standard 14"
BFB	Instruction Manual
BX17	Tool Box

25 TOOLS



Body and Fender Repair Tools
Tool Sets

4 TOOLS



Part No.	644K	WOOD HANDLES
158G	General Purpose Pick Hammer	
153GB	Cross Chisel Curved Hammer	
1036	Light Dinging Spoon	
1058	Toe Dolly Block	

Part No.	644KFG	FIBERGLASS HANDLES
158FG	General Purpose Pick Hammer	
153FGB	Cross Chisel Curved Hammer	
1036	Light Dinging Spoon	
1058	Toe Dolly Block	

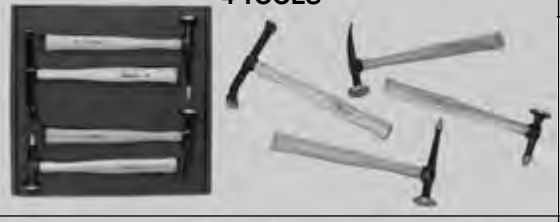
7 TOOLS



Part No.	647K	WOOD HANDLES
153GB	Cross Chisel Curved Hammer	
162G	Shrinking Hammer	
164G	Utility Pick Hammer	
1036	Light Dinging Spoon	
1058	Toe Dolly Block	
1059	Heel Dolly Block	
1060	General Purpose Dolly Block	

Part No.	647KFG	FIBERGLASS HANDLES
153FGB	Cross Chisel Curved Hammer	
162FG	Shrinking Hammer	
164FG	Utility Pick Hammer	
1036	Light Dinging Spoon	
1058	Toe Dolly Block	
1059	Heel Dolly Block	
1060	General Purpose Dolly Block	

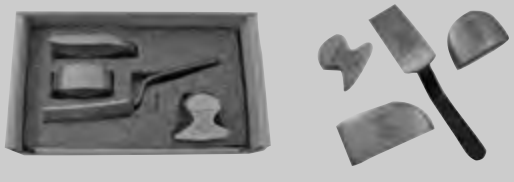
4 TOOLS



Part No.	694K	WOOD HANDLES
158G	General Purpose Pick Hammer	
153GB	Cross Chisel Curved Hammer	
164G	Utility Pick Hammer	
170G	Door Skin Hammer	



Part No.	694KFG	FIBERGLASS HANDLES
158FG	General Purpose Pick Hammer	
153FGB	Cross Chisel Curved Hammer	
164FG	Utility Pick Hammer	
170FG	Door Skin Hammer	



Part No.	645K
1059	Heel Dolly
1060	General Purpose Dolly
1036	Light Dinging Spoon
1057	Light Weight Toe Dolly

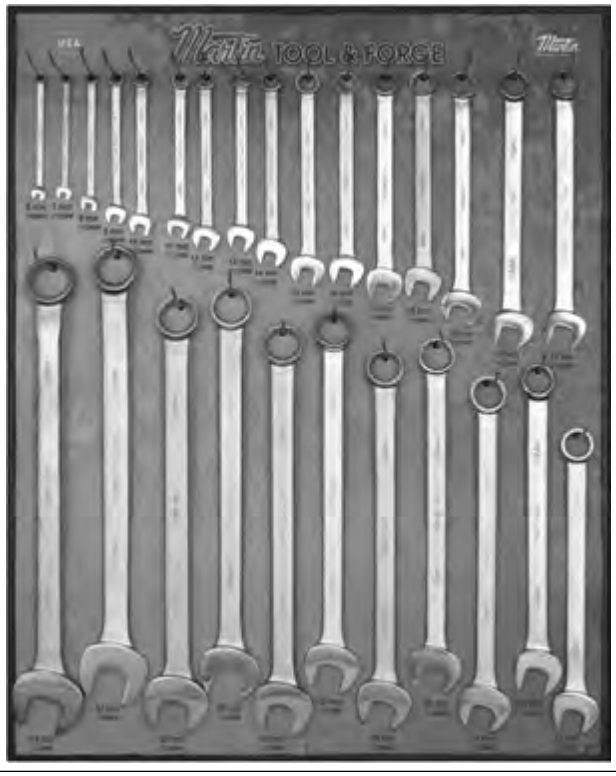
Combination Wrenches

BD1		QTY.
1158	1/4 Combination Wrench	1
1159	5/16 Combination Wrench	1
1159A	11/32 Combination Wrench	1
1160	3/8 Combination Wrench	1
1161	7/16 Combination Wrench	1
1162	1/2 Combination Wrench	1
1163	9/16 Combination Wrench	1
1164	5/8 Combination Wrench	1
1165	11/16 Combination Wrench	1
1166	3/4 Combination Wrench	1
1167A	13/16 Combination Wrench	1
1167	7/8 Combination Wrench	1
1168	15/16 Combination Wrench	1
1170	1 Combination Wrench	1
1171	1 1/16 Combination Wrench	1
1172	1 1/8 Combination Wrench	1
1173	1 1/4 Combination Wrench	1
1174	1 5/16 Combination Wrench	1
1175	1 3/8 Combination Wrench	1
1176	1 7/16 Combination Wrench	1



Combination Wrenches - Metric

BD2		QTY.
1106MM	6 MM Combination Wrench	1
1107MM	7 MM Combination Wrench	1
1108MM	8 MM Combination Wrench	1
1109MM	9 MM Combination Wrench	1
1110MM	10 MM Combination Wrench	1
1111MM	11 MM Combination Wrench	1
1112MM	12 MM Combination Wrench	1
1113MM	13 MM Combination Wrench	1
1114MM	14 MM Combination Wrench	1
1115MM	15 MM Combination Wrench	1
1116MM	16 MM Combination Wrench	1
1117MM	17 MM Combination Wrench	1
1118MM	18 MM Combination Wrench	1
1119MM	19 MM Combination Wrench	1
1120MM	20 MM Combination Wrench	1
1121MM	21 MM Combination Wrench	1
1122MM	22 MM Combination Wrench	1
1123MM	23 MM Combination Wrench	1
1124MM	24 MM Combination Wrench	1
1125MM	25 MM Combination Wrench	1
1126MM	26 MM Combination Wrench	1
1127MM	27 MM Combination Wrench	1
1128MM	28 MM Combination Wrench	1
1129MM	29 MM Combination Wrench	1
1130MM	30 MM Combination Wrench	1
1132MM	32 MM Combination Wrench	1
1134MM	34 MM Combination Wrench	1



Tool Display Boards

Hydraulic Wrenches



BD3		QTY.
3710A	11/32x11/32 Hydraulic Wrench	1
3710	3/8x3/8 Hydraulic Wrench	1
3711	7/16x7/16 Hydraulic Wrench	1
3712	1/2x1/2 Hydraulic Wrench	1
3713	9/16x9/16 Hydraulic Wrench	1
3714	5/8x5/8 Hydraulic Wrench	1
3715	11/16x11/16 Hydraulic Wrench	1
3716	3/4x3/4 Hydraulic Wrench	1
3717	13/16x13/16 Hydraulic Wrench	1
3718	7/8x7/8 Hydraulic Wrench	1
3719	15/16x15/16 Hydraulic Wrench	1
3720	1x1 Hydraulic Wrench	1
3721	1 1/16x 1 1/16 Hydraulic Wrench	1
3722	1 1/8x1 1/8 Hydraulic Wrench	1
3722A	1 3/16x1 3/16 Hydraulic Wrench	1
3723	1 1/4x1 1/4 Hydraulic Wrench	1
3724	1 3/8x1 3/8 Hydraulic Wrench	1
3725	1 7/16x1 7/16 Hydraulic Wrench	1
3726	1 1/2x 1 1/2 Hydraulic Wrench	1

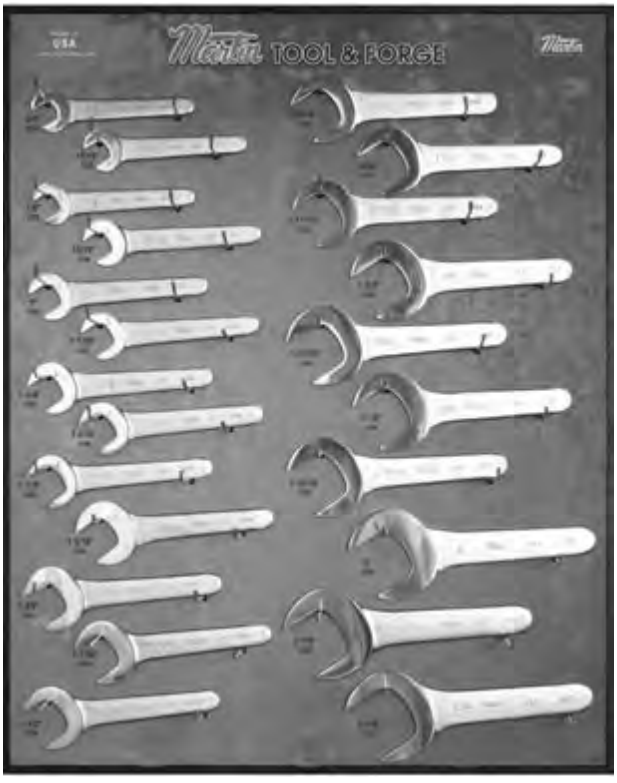
Hydraulic Wrenches — Metric



BD4		QTY.
3709mm	9 mm Hydraulic Wrench	1
3710mm	10 mm Hydraulic Wrench	1
3711mm	11 mm Hydraulic Wrench	1
3712mm	12 mm Hydraulic Wrench	1
3713mm	13 mm Hydraulic Wrench	1
3714mm	14 mm Hydraulic Wrench	1
3715mm	15 mm Hydraulic Wrench	1
3716mm	16 mm Hydraulic Wrench	1
3717mm	17 mm Hydraulic Wrench	1
3718mm	18 mm Hydraulic Wrench	1
3719mm	19 mm Hydraulic Wrench	1
3720mm	20 mm Hydraulic Wrench	1
3721mm	21 mm Hydraulic Wrench	1
3722mm	22 mm Hydraulic Wrench	1
3723mm	23 mm Hydraulic Wrench	1
3724mm	24 mm Hydraulic Wrench	1
3727mm	27 mm Hydraulic Wrench	1
3730mm	30 mm Hydraulic Wrench	1
3732mm	32 mm Hydraulic Wrench	1
3734mm	34 mm Hydraulic Wrench	1
3736mm	36 mm Hydraulic Wrench	1

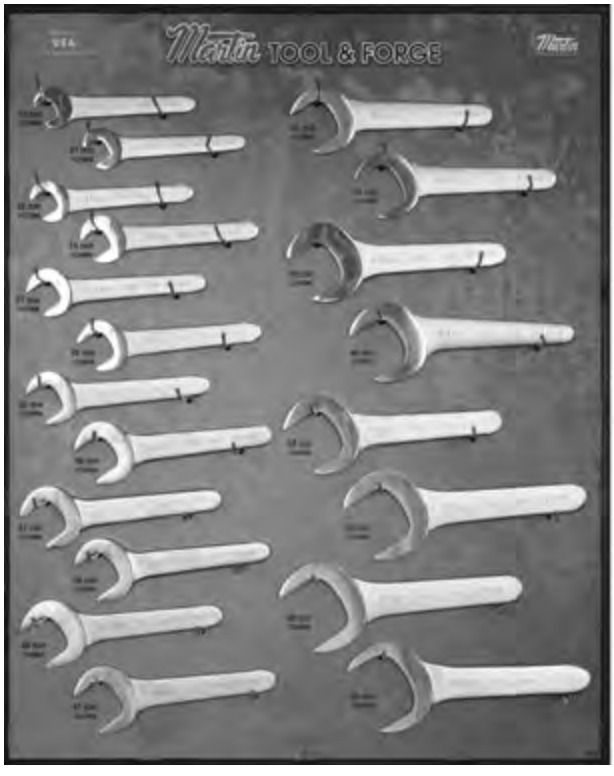
Service Wrenches

BD5		QTY.
1224	3/4 Service Wrench	1
1226	13/16 Service Wrench	1
1228	7/8 Service Wrench	1
1230	15/16 Service Wrench	1
1232	1 Service Wrench	1
1234	1 1/16 Service Wrench	1
1236	1 1/8 Service Wrench	1
1238	1 3/16 Service Wrench	1
1240	1 1/4 Service Wrench	1
1242	1 5/16 Service Wrench	1
1244	1 3/8 Service Wrench	1
1246	1 7/16 Service Wrench	1
1248	1 1/2 Service Wrench	1
1250	1 9/16 Service Wrench	1
1252	1 5/8 Service Wrench	1
1254	1 11/16 Service Wrench	1
1256	1 3/4 Service Wrench	1
1258	1 13/16 Service Wrench	1
1260	1 7/8 Service Wrench	1
1262	1 15/16 Service Wrench	1
1264	2 Service Wrench	1
1268	2 1/8 Service Wrench	1
1272	2 1/4 Service Wrench	1



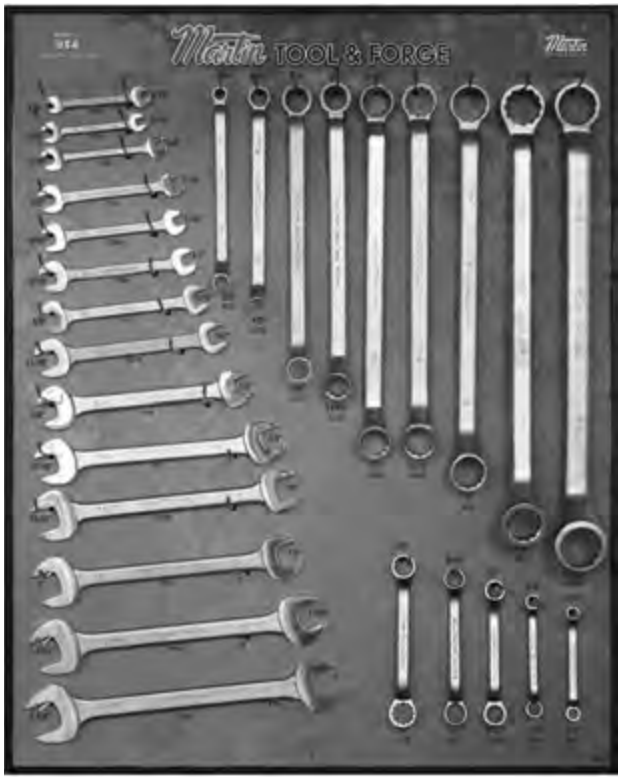
Service Wrenches — Metric

BD6		QTY.
1219mm	19mm Service Wrench	1
1221mm	21 mm Service Wrench	1
1222mm	22 mm Service Wrench	1
1224mm	24 mm Service Wrench	1
1227mm	27 mm Service Wrench	1
1230mm	30 mm Service Wrench	1
1232mm	32 mm Service Wrench	1
1236mm	36 mm Service Wrench	1
1237mm	37 mm Service Wrench	1
1238mm	38 mm Service Wrench	1
1240mm	40 mm Service Wrench	1
1241mm	41 mm Service Wrench	1
1242mm	42 mm Service Wrench	1
1244mm	44 mm Service Wrench	1
1246mm	46 mm Service Wrench	1
1248mm	48 mm Service Wrench	1
1250mm	50 mm Service Wrench	1
1255mm	55 mm Service Wrench	1
1260mm	60 mm Service Wrench	1
1265mm	65 mm Service Wrench	1



Tool Display Boards

Double Open End / Box Wrenches



BD7		QTY.
1020	1/4x5/16 Open End Wrench	1
1721	5/16x3/8 Open End Wrench	1
1723	3/8x7/16 Open End Wrench	1
1725	7/16x1/2 Open End Wrench	1
1725A	7/16x9/16 Open End Wrench	1
1725B	1/2x9/16 Open End Wrench	1
1727	9/16x5/8 Open End Wrench	1
1027B	5/8x11/16 Open End Wrench	1
1729	5/8x3/4 Open End Wrench	1
1731	3/4x13/16 Open End Wrench	1
1033A	7/8x15/16 Open End Wrench	1
1733	7/8x1 Open End Wrench	1
1034A	15/16x1 1/16 Open End Wrench	1
1735	1x1 1/8 Open End Wrench	1
8723	3/8x7/16 Long Box Wrench	1
8725B	1/2x9/16 Long Box Wrench	1
8729	5/8x3/4 Long Box Wrench	1
8029B	11/16x3/4 Long Box Wrench	1
8033A	7/8x15/16 Long Box Wrench	1
8033C	15/16x1 Long Box Wrench	1
8735	1x1 1/8Long Box Wrench	1
8037	1 1/16x1 1/4Long Box Wrench	1
8039B	1 1/4x1 7/16Long Box Wrench	1
9721	5/16x3/8 Dbl. Offset Box Wrench	1
9723	3/8x7/16 Dbl. Offset Box Wrench	1
9725B	1/2x9/16 Dbl. Offset Box Wrench	1
9727	9/16x5/8 Dbl. Offset Box Wrench	1
9729	5/8x3/4 Dbl. Offset Box Wrench	1

Check Nut Wrenches



BD9		QTY.
601A	7/16 CHECKNUT	1
601	1/2 CHECKNUT	1
602A	9/16 CHECKNUT	1
602	19/32 CHECKNUT	1
603A	5/8 CHECKNUT	1
603	11/16 CHECKNUT	1
604A	3/4 CHECKNUT	1
605A	13/16 CHECKNUT	1
605	7/8 CHECKNUT	1
606A	15/16 CHECKNUT	1
606B	1 CHECKNUT	1
607	1 1/16 CHECKNUT	1
607A	1 1/8 CHECKNUT	1
608	1 1/4 CHECKNUT	1
610MM	10mm CHECKNUT	1
611MM	1mm CHECKNUT	1
612MM	12mm CHECKNUT	1
613MM	13mm CHECKNUT	1
614MM	14mm CHECKNUT	1
615MM	15mm CHECKNUT	1
616MM	16mm CHECKNUT	1
617MM	17mm CHECKNUT	1
618MM	18mm CHECKNUT	1
619MM	19mm CHECKNUT	1
621MM	21mm CHECKNUT	1
622MM	22mm CHECKNUT	1
624MM	24mm CHECKNUT	1
627MM	27mm CHECKNUT	1
630MM	30mm CHECKNUT	1
632MM	32mm CHECKNUT	1

Tool Display Boards

Crowfoot Wrenches

BD10		QTY.
4112	3/8 Crowfoot Wrench	1
4114	7/16 Crowfoot Wrench	1
4116	1/2 Crowfoot Wrench	1
4118	9/16 Crowfoot Wrench	1
4120	5/8 Crowfoot Wrench	1
4122	11/16 Crowfoot Wrench	1
4124	3/4 Crowfoot Wrench	1
4126	13/16 Crowfoot Wrench	1
4128	7/8 Crowfoot Wrench	1
4130	15/16 Crowfoot Wrench	1
4132	1 Crowfoot Wrench	1
4134	1 1/16 Crowfoot Wrench	1
4136	1 1/8 Crowfoot Wrench	1
4140	1 1/4 Crowfoot Wrench	1
4144	1 3/8 Crowfoot Wrench	1
4148	1 1/2 Crowfoot Wrench	1
BC20	5/8 Drive Crowfoot	1
BC22	11/16 Drive Crowfoot	1
BC24	3/4 Drive Crowfoot	1
BC26	13/16 Drive Crowfoot	1
BC28	7/8 Drive Crowfoot	1
BC30	15/16 Drive Crowfoot	1
BC32	1 Drive Crowfoot	1
BC34	1 1/16 Drive Crowfoot	1
SC36	1 1/8 Drive Crowfoot	1
SC38	1 3/16 Drive Crowfoot	1
SC40	1 1/4 Drive Crowfoot	1
SC42	1 5/16 Drive Crowfoot	1
SC44	1 3/8 Drive Crowfoot	1
SC46	1 7/16 Drive Crowfoot	1
SC50	1 9/16 Drive Crowfoot	1
SC52	1 5/8 Drive Crowfoot	1
SC54	1 11/16 Drive Crowfoot	1
SC56	1 3/4 Drive Crowfoot	1
SC58	1 13/16 Drive Crowfoot	1
SC60	1 7/8 Drive Crowfoot	1
SC62	1 15/16 Drive Crowfoot	1
SC64	2 Drive Crowfoot	1



Spanner Wrenches

BD11		QTY.
O471	3/4 to 2 Adjustable Pin Spanner	1
O471A	3/4 to 2 Adjustable Pin Spanner	1
O472	1 1/4 to 3 Adjustable Pin Spanner	1
O472A	1 1/4 to 3 Adjustable Pin Spanner	1
O474	2 to 4 3/4 Adjustable Pin Spanner	1
O474A	4 1/2 to 6 1/4 Adjustable Pin Spanner	1
471	3/4 to 2 Adjustable Hook Spanner	1
472	1 1/4 to 3 Adjustable Hook Spanner	1
474	2 to 4 3/4 Adjustable Hook Spanner	1
474A	4 1/2 to 6 1/4 Adjustable Hook Spanner	1
474B	6 1/8 to 8 3/4 Adjustable Hook Spanner	1
482	2 Adjustable Face Spanner	1
483	3 Adjustable Face Spanner	1
484	4 Adjustable Face Spanner	1



Tool Display Boards

Adjustable Wrenches



BD12		QTY.
A6	6 Adjustable Wrench	1
A6T	6 Adjustable Wrench Black	1
A8	8 Adjustable Wrench	1
A8T	8 Adjustable Wrench Black	1
A10	10 Adjustable Wrench	1
A10T	10 Adjustable Wrench Black	1
A12	12 Adjustable Wrench	1
A12T	12 Adjustable Wrench Black	1
A 15	15 Adjustable Wrench	1
A15T	15 Adjustable Wrench Black	1
A18	18 Adjustable Wrench	1
A18T	18 Adjustable Wrench Black	1
89311	11 Adjustable Auto Wrench	1

Pliers

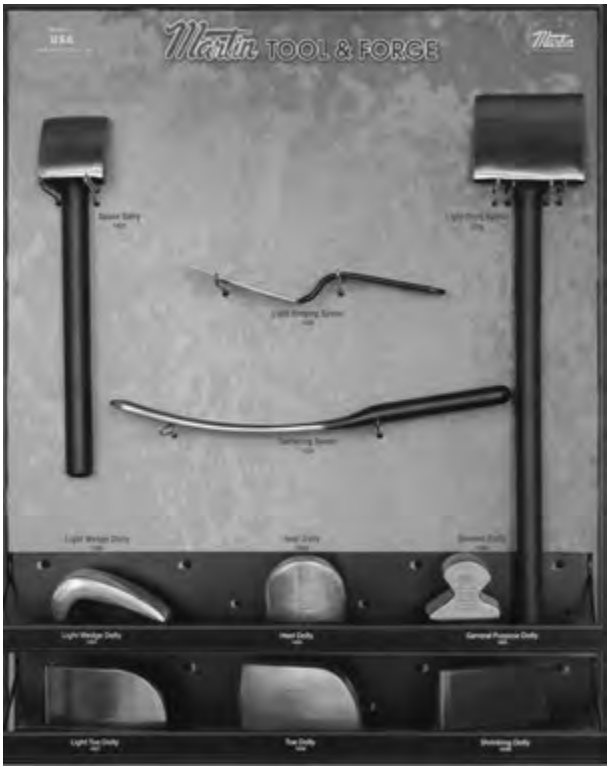


BD13		QTY.
P206	6 Diagonal Cutting	1
P208	8 Combination Slip Joint	1
P210	10 Combination Slip Joint	1
P307	7 Lineman's	1
P308	8 1/2 Lineman's	1
P309	9 1/4 New England Pattern Lineman's	1
P407	7 Tongue and Grove	1
P506	6 1/2 Long Chain Side Cutting	1
P507	8 Long Chain Side Cutting	1
P510	10 Tongue and Grove	1
P2065	6 3/4 Combination Slip Joint	1
P2075	7 Diagonal Cutting	1
P71275	13 Tongue and Grove	1
P75	10” Retaining Ring Plier 1 1/2" - 4"	1
P1421	6” Retaining Ring Plier 1/8" - 1"	1
P1434	8” Retaining Ring Plier 1/4" - 2"	1

Tool Display Boards

Dollys

BD14		QTY.
1024	Surfacing Spoon	1
1036	Light Dinging Spoon	1
1052	Spoon Dolly	1
1056	Wing-Ding Spoon Dolly	1
1057	Light Weight Toe Dolly	1
1058	Toe Dolly	1
1058S	Shrinking Dolly (Serrated)	1
1059	Heel Dolly	1
1060	General Purpose Dolly	1
1065	Light Weight Wedge Dolly	1



Wood Handle Hammers

BD15WD		QTY.
150G	Dinging Hmr.	1
153G	Cross Chisel Hmr.	1
153GB	Cross Chisel Curved Hmr.	1
153S	Cross Chisel Shrinking Hmr.	1
156GB	Curved Pick Hmr.	1
158G	General Purpose Pick Hmr.	1
160G	Heavy Duty Bumping Hmr.	1
162G	Shrinking Hmr.	1
164G	Utility Pick Hmr.	1
168G	Cross Peen Finishing Hmr.	1
170G	Door Skin Hmr.	1



Tool Display Boards

Fiberglass Handle Hammers



BD15FG		QTY.
150FG	Dinging Hmr.	1
153FG	Cross Chisel Hmr.	1
153FGB	Cross Chisel Curved Hmr.	1
153SFG	Cross Chisel Shrinking Hmr.	1
156FG	Curved Pick Hmr.	1
158FG	General Purpose Pick Hmr.	1
160FG	Heavy Duty Bumping Hmr.	1
162FG	Shrinking Hmr.	1
164FG	Utility Pick Hmr.	1
168FG	Cross Peen Finishing Hmr.	1
170FG	Door Skin Hmr.	1

1/4" & 3/8" Sockets

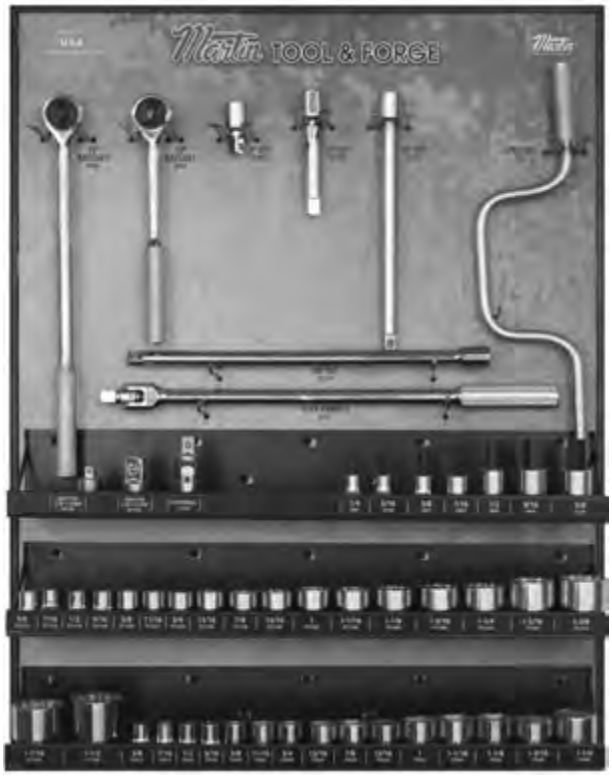


BD16		QTY.	BD16		QTY.	BD16		QTY.
M52	ATTACH,1/4,RATCH	1	BA10	SKT,3/8,HEX,BIT,5/16	1	BD624	SKT,3/8,6PT,DP,3/4	1
M103	ATTACH,1/4,EXT,3	1	BA12	SKT,3/8,HEX,BIT,5/16	1	BD626	SKT,3/8,6PT,DP,13/16	1
M106	ATTACH,1/4,SPINNER,6	1	BU612	SKT,3/8,6PT,FLEX,3/8	1	BD628	SKT,3/8,6PT,DP,7/8	1
M605	SKT,1/4,6PT,STD,5/32	1	BU614	SKT,3/8,6PT,FLEX,7/16	1	BD630	SKT,3/8,6PT,DP,15/16	1
M606	SKT,1/4,6PT,STD,3/16	1	BU616	SKT,3/8,6PT,FLEX,1/2	1	BD632	SKT,3/8,6PT,DP,1	1
M607	SKT,1/4,6PT,STD,7/32	1	BU618	SKT,3/8,6PT,FLEX,9/16	1	BD620P	SKT,3/8,6PT,SPK,PLG,5/8	1
M608	SKT,1/4,6PT,STD,1/4	1	BU620	SKT,3/8,6PT,FLEX,5/8	1	BD626P	SKT,3/8,6PT,	
M609	SKT,1/4,6PT,STD,9/32	1	BU622	SKT,3/8,6PT,FLEX,11/16	1		SPK,PLG,13/16	1
M610	SKT,1/4,6PT,STD,5/16	1	BU624	SKT,3/8,6PT,FLEX,3/4	1	BD1212	SKT,3/8,12PT,DP,3/8	1
M611	SKT,1/4,6PT,STD,11/32	1	B40A	RATCH,3/8,F-HDL,8 1/2	1	BD1214	SKT,3/8,12PT,DP,7/16	1
M612	SKT,1/4,6PT,STD,3/8	1	B52	RATCH,3/8,REV,7	1	BD1216	SKT,3/8,12PT,DP,1/2	1
M614	SKT,1/4,6PT,STD,7/16	1	B54	RATCH,3/8,FLEX	1	BD1218	SKT,3/8,12PT,DP,9/16	1
M616	SKT,1/4,6PT,STD,1/2	1	B103	ATTACH,EXT,3/8,3	1	BD1220	SKT,3/8,12PT,DP,5/8	1
M1206	SKT,1/4,12PT,STD,3/16	1	B105	ATTACH,EXT,3/8,5	1	BD1222	SKT,38,12PT,DP,11/16	1
M1207	SKT,1/4,12PT,STD,7/32	1	B112	ATTACH,EXT3/8,12	1	BD1224	SKT,3/8,12PT,DP,3/4	1
M1208	SKT,1/4,12PT,STD,1/4	1	B608	SKT,3/8,6PT,STD,1/4	1	BD1226	SKT,3/8,12PT,DP,13/16	1
M1209	SKT,1/4,12PT,STD,9/32	1	B610	SKT,3/8,6PT,STD,5/16	1	BD1228	SKT,3/8,12PT,DP,7/8	1
M1210	SKT,1/4,12PT,STD,5/16	1	B612	SKT,3/8,6PT,STD,3/8	1	BM606	SKT,3/8,6PT,STD,6MM	1
M1211	SKT,1/4,12PT,STD,11/32	1	B614	SKT,3/8,6PT,STD,7/16	1	BM607	SKT,3/8,6PT,STD,7MM	1
M1212	SKT,1/4,12PT,STD,3/8	1	B616	SKT,3/8,6PT,STD,1/2	1	BM608	SKT,3/8,6PT,STD,8MM	1
M1214	SKT,1/4,12PT,STD,7/16	1	B618	SKT,3/8,6PT,STD,9/16	1	BM609	SKT,3/8,6PT,STD,9MM	1
M1216	SKT,1/4,12PT,STD,1/2	1	B620	SKT,3/8,6PT,STD,5/8	1	BM610	SKT,3/8,6PT,STD,10MM	1
MD606	SKT,1/4,6PT,DP,3/16	1	B622	SKT,3/8,6PT,STD,11/16	1	BM611	SKT,3/8,6PT,STD,11MM	1
MD607	SKT,1/4,6PT,DP,7/32	1	B624	SKT,3/8,6PT,STD,3/4	1	BM612	SKT,3/8,6PT,STD,12MM	1
MD608	SKT,1/4,6PT,DP,1/4	1	B626	SKT,3/8,6PT,STD,13/16	1	BM613	SKT,3/8,6PT,STD,13MM	1
MD609	SKT,1/4,6PT,DP,9/32	1	B628	SKT,3/8,6PT,STD,7/8	1	BM614	SKT,3/8,6PT,STD,14MM	1
MD610	SKT,1/4,6PT,DP,5/16	1	B630	SKT,3/8,6PT,STD,15/16	1	BM615	SKT,3/8,6PT,STD,15MM	1
MD611	SKT,1/4,6PT,DP,11/32	1	B632	SKT,3/8,6PT,STD,1	1	BM616	SKT,3/8,6PT,STD,16MM	1
MD612	SKT,1/4,6PT,DP,3/8	1	B1208	SKT,3/8,12PT,STD,1/4	1	BM617	SKT,3/8,6PT,STD,17MM	1
MD614	SKT,1/4,6PT,DP,7/16	1	B1210	SKT,3/8,12PT,STD,5/16	1	BM618	SKT,3/8,6PT,STD,18MM	1
MD616	SKT,1/4,6PT,DP,1/2	1	B1212	SKT,3/8,12PT,STD,3/8	1	BM619	SKT,3/8,6PT,STD,19MM	1
MM604	SKT,1/4,6PT,STD,4MM	1	B1214	SKT,3/8,12PT,STD,7/16	1	BMD606	SKT,3/8,6PT,DP,6MM	1
MM605	SKT,1/4,6PT,STD,5MM	1	B1216	SKT,3/8,12PT,STD,1/2	1	BMD607	SKT,3/8,6PT,DP,7MM	1
MM606	SKT,1/4,6PT,STD,6MM	1	B1218	SKT,3/8,12PT,STD,9/16	1	BMD608	SKT,3/8,6PT,DP,8MM	1
MM607	SKT,1/4,6PT,STD,7MM	1	B1220	SKT,3/8,12PT,STD,5/8	1	BMD609	SKT,3/8,6PT,DP,9MM	1
MM608	SKT,1/4,6PT,STD,8MM	1	B1222	SKT,3/8,12PT,STD,11/16	1	BMD610	SKT,3/8,6PT,DP,10MM	1
MM609	SKT,1/4,6PT,STD,9MM	1	B1224	SKT,3/8,12PT,STD,3/4	1	BMD611	SKT,3/8,6PT,DP,11MM	1
MM610	SKT,1/4,6PT,STD,10MM	1	B1226	SKT,3/8,12PT,STD,13/16	1	BMD612	SKT,3/8,6PT,DP,12MM	1
MM611	SKT,1/4,6PT,STD,11MM	1	B1228	SKT,3/8,12PT,STD,7/8	1	BMD613	SKT,3/8,6PT,DP,13MM	1
MM612	SKT,1/4,6PT,STD,12MM	1	B1230	SKT,3/8,12PT,STD,15/16	1	BMD614	SKT,3/8,6PT,DP,14MM	1
MM613	SKT,1/4,6PT,STD,13MM	1	B1232	SKT,3/8,12PT,STD,1	1	BMD615	SKT,3/8,6PT,DP,15MM	1
BS129	ATT,ADAPT,3/8-FX1/4-M	1	BD608	SKT,3/8,6PT,DP,1/4	1	BMD616	SKT,3/8,6PT,DP,16MM	1
BS130	ATT,ADAPT,3/8-FX1/2-M	1	BD610	SKT,3/8,6PT,DP,5/16	1	BMD617	SKT,3/8,6PT,DP,17MM	1
B140A	ATTACH,3/8,UNIVERSAL	1	BD612	SKT,3/8,6PT,DP,3/8	1	BMD618	SKT,3/8,6PT,DP,18MM	1
BA4	SKT,3/8,HEX,BIT,1/8	1	BD614	SKT,3/8,6PT,DP,7/16	1	BMD619	SKT,3/8,6PT,DP,19MM	1
BA5	SKT,3/8,HEX,BIT,5/32	1	BD616	SKT,3/8,6PT,DP,1/2	1			
BA6	SKT,3/8,HEX,BIT,3/16	1	BD618	SKT,3/8,6PT,DP,9/16	1			
BA7	SKT,3/8,HEX,BIT,7/32	1	BD620	SKT,3/8,6PT,DP,5/8	1			
BA8	SKT,3/8,HEX,BIT,1/4	1	BD622	SKT,3/8,6PT,DP,11/16	1			

Tool Display Boards

1/2" Chrome

BD17		QTY.
S15	ATTACH,1/2,SPEEDER,18	1
S102P	ATTACH,1/2,EXT,2	1
S110P	ATTACH,1/2,EXT,5	1
S115P	ATTACH,1/2,EXT,10	1
S121P	ATTACH,1/2,EXT,18	1
S140	ATTACH,1/2,UNIVERSAL	1
SA8	SKT,1/2,HEX,BIT,1/4	1
SA10	SKT,1/2,HEX,BIT,5/16	1
SA12	SKT,1/2,HEX,BIT,3/8	1
SA14	SKT,1/2,HEX,BIT,7/16	1
SA16	SKT,1/2,HEX,BIT,1/2	1
SA18	SKT,1/2,HEX,BIT,9/16	1
SA20	SKT,1/2,HEX,BIT,5/8	1
SF41	ATTACH,1/2,F-HDL,17	1
SF51	RACTH,1/2,,REV,10	1
SF55	1/2" RATCHET 15"	1
SH129	ADAPT,1/2F X 3/8M	1
SH130	ADAPT,1/2 F X 3/4M	1
ST1212	SKT,1/2,12P,STD,3/8	1
ST1214	SKT,1/2,12P,STD,7/16	1
ST1216	SKT,1/2,12PTSTD,1/2	1
ST1218	SKT,1/2,12P,STD,9/16	1
ST1220	SKT,1/2,12P,STD,5/8	1
ST1222	SKT,1/2,12P,STD,11/16	1
ST1224	SKT,1/2,12P,STD,3/4	1
ST1226	SKT,1/2,12P,STD,13/16	1
ST1228	SKT,1/2,12P,STD,7/8	1
ST1230	SKT,1/2,12P,STD,15/16	1
ST1232	SKT,1/2,12P,STD,1	1
ST1234	SKT,1/2,12P,STD,1-1/16	1
ST1236	SKT,1/2,12P,STD,1-1/8	1
ST1238	SKT,1/2,12P,STD,1-3/16	1
ST1240	SKT,1/2,12P,STD,1-1/4	1
ST1242	SKT,1/2,12PT,STD,1-5/16	1
ST1244	SKT,1/2,12P,STD,1-3/8	1
ST1246	SKT,1/2,12PT,STD,1-7/16	1
ST1248	SKT,1/2,12P,STD,1-1/2	1
ST612	SKT,1/2,6P,STD,3/8	1
ST614	SKT,1/2,6P,STD,7/16	1
ST616	SKT,1/2,6P,STD,1/2	1
ST618	SKT,1/2,6P,STD,9/16	1
ST620	SKT,1/2,6P,STD,5/8	1
ST622	SKT,1/2,6P,STD,11/16	1
ST624	SKT,1/2,6P,STD,3/4	1
ST626	SKT,1/2,6P,STD,13/16	1
ST628	SKT,1/2,6P,STD,7/8	1
ST630	SKT,1/2,6P,STD,15/16	1
ST632	SKT,1/2,6P,STD,1	1
ST634	SKT,1/2,6P,STD,1-1/16	1
ST636	SKT,1/2,6P,STD,1-1/8	1
ST638	SKT,1/2,6P,STD,1-3/16	1
ST640	SKT,1/2,6P,STD,1-1/4	1



1/2" Chrome Sockets

BD18		QTY.
SD1212	SKT,1/2,12P,DP,3/8	1
SD1214	SKT,1/2,12P,DP,7/16	1
SD1216	SKT,1/2,12P,DP,1/2	1
SD1218	SKT,1/2,12P,DP,9/16	1
SD1220	SKT,1/2,12P,DP,5/8	1
SD1222	SKT,1/2,12P,DP,11/16	1
SD1224	SKT,1/2,12P,DP,3/4	1
SD1226	SKT,1/2,12P,DP,13/16	1
SD1228	SKT,1/2,12P,DP,7/8	1
SD1230	SKT,1/2,12P,DP,15/16	1
SD1232	SKT,1/2,12P,DP,1	1
SD1234	SKT,1/2,12P,DP,1-1/16	1
SD1236	SKT,1/2,12P,DP,1-1/8	1
SD1238	SKT,1/2,12P,DP,1-3/16	1
SD1240	SKT,1/2,12P,DP,1-1/4	1
SD1242	SKT, 1/2, 12P, DP, 1-5/16	1
SD1244	SKT,1/2,12P,DP,1-3/8	1
SD1246	SKT,1/2,12P,DP,1-7/16	1
SD1248	SKT,1/2,12P,DP,1-1/2	1
SD616	SKT,1/2,6P,DP,1/2	1
SD618	SKT,1/2,6P,DP,9/16	1
SD620	SKT,1/2,6P,DP,5/8	1
SD622	SKT,1/2,6P,DP,11/16	1
SD624	SKT,1/2,6P,DP,3/4	1
SD626	SKT,1/2,6P,DP,13/16	1
SD628	SKT,1/2,6P,DP,7/8	1
SD630	SKT,1/2,6P,DP,15/16	1
SD632	SKT,1/2,6P,DP,1	1
SD634	SKT,1/2,6P,DP,1-1/16	1
SD636	SKT,1/2,6P,DP,1-1/8	1
STM1209	SKT,1/2,12P,STD,9MM	1
STM1210	SKT,1/2,12P,STD,10MM	1
STM1211	SKT,1/2,12P,STD,11MM	1
STM1212	SKT,1/2,12P,STD,12MM	1
STM1213	SKT,1/2,12P,STD,13MM	1
STM1214	SKT,1/2,12P,STD,14MM	1

BD16		QTY.
STM1215	SKT,1/2,12P,STD,15MM	1
STM1216	SKT,1/2,12P,STD,16MM	1
STM1217	SKT,1/2,12P,STD,17MM	1
STM1218	SKT,1/2,12P,STD,18MM	1
STM1219	SKT,1/2,12P,STD,19MM	1
STM1220	SKT,1/2,12P,STD,20MM	1
STM1221	SKT,1/2,12P,STD,21MM	1
STM1222	SKT,1/2,12P,STD,22MM	1
STM1223	SKT,1/2,12P,STD,23MM	1
STM1224	SKT,1/2,12P,STD,24MM	1
STM1225	SKT,1/2,12P,STD,25MM	1
STM1226	SKT,1/2,12P,STD,26MM	1
STM1227	SKT,1/2,12P,STD,27MM	1
STM1230	SKT,1/2,12P,STD,30MM	1
STM1232	SKT,1/2,12P,STD,32MM	1
STM1236	SKT,1/2,12P,STD,36MM	1
SMD1210	SKT,1/2,12P,DP,10MM,	1
SMD1211	SKT,1/2,12P,DP,11MM	1
SMD1212	SKT,1/2,12P,DP,12MM	1
SMD1213	SKT,1/2,12P,DP,13MM	1
SMD1214	SKT,1/2,12P,DP,14MM	1
SMD1215	SKT,1/2,12P,DP,15MM	1
SMD1216	SKT,1/2,12P,DP,16MM	1
SMD1217	SKT,1/2,12P,DP,17MM	1
SMD1218	SKT,1/2,12P,DP,18MM	1
SMD1219	SKT,1/2,12P,DP,19MM	1
SMD1220	SKT,1/2,12P,DP,20MM	1
SMD1221	SKT,1/2,12P,DP,21MM	1
SMD1222	SKT,1/2,12P,DP,22MM	1
SMD1223	SKT,1/2,12P,DP,23MM	1
SMD1224	SKT,1/2,12P,DP,24MM	1
SMD1225	SKT,1/2,12P,DP,25MM	1
SMD1226	SKT,1/2,12P,DP,26MM	1
SMD1227	SKT,1/2,12P,DP,27MM	1



Tool Display Boards

3/4" Chrome



BD19		QTY.
H20A	ATTACH,3/4,T-SLIDE,	1
H41A	ATTACH,3/4,F-HDL,21-5/8	1
H51	RATCH,3/4,REV,24	1
H104	ATTACH,3/4,EXT,3-1/2	1
H110	ATTACH,3/4,EXT,8	1
H115	ATTACH,3/4,EXT,16	1
H140	ATTACH,3/4,UNIVERSAL	1
H1224	SKT,3/4,12PT,STD,3/4	1
H1226	SKT,3/4,12PT,STD,13/16	1
H1228	SKT,3/4,12PT,STD,7/8	1
H1230	SKT,3/4,12PT,STD,15/16	1
H1232	SKT,3/4,12PT,STD,1	1
H1234	SKT,3/4,12PT,STD,1-1/16	1
H1236	SKT,3/4,12PT,STD,1-1/8	1
H1238	SKT,3/4,12PT,STD,1 3/16	1
H1240	SKT,3/4,12PT,STD,1-1/4	1
H1242	SKT,3/4,12PT,STD,1-5/16	1
H1244	SKT,3/4,12PT,STD,1-3/8	1
H1246	SKT,3/4,12PT,STD,1-7/16	1
H1248	SKT,3/4,12PT,STD,1-1/2	1
H1250	SKT,3/4,12PT,STD,1-9/16	1
H1252	SKT,3/4,12PT,STD,1-5/8	1
H1254	SKT,3/4,12PT,STD,1-11/16	1
H1256	SKT,3/4,12PT,STD,1-3/4	1
H1258	SKT,3/4,12PT,STD,1-13/16	1
H1260	SKT,3/4,12PT,STD,1-7/8	1
H1264	SKT,3/4,12PT,STD,2	1
H1266	SKT,3/4,12PT,STD,2 1/16	1
H1268	SKT,3/4,12PT,STD,2 1/7	1
H1270	SKT,3/4,12PT,STD,2 3/16	1
H1272	SKT,3/4,12PT,STD,2 1/4	1
H1276	SKT,3/4,12PT,STD,2 3/8	1

3/4" Impact



BD20		QTY	BD20		QTY
6107	3/4,EXT,7	1	6660	SKT,3/4,6P,STD,IMP,1-7/8	1
6110	3/4,EXT,10	1	6662	SKT,3/4,6P,STD,IMP,1-15/16	1
64A	3/4,ADAP,3/4F-1/2M	1	6664	SKT,3/4,6P,STD,IMP,2	1
67	3/4,ADAP,3/4F-1M	1	16624	SKT,3/4,6P,DP,IMP,3/4	1
6140A	3/4,IMP,UNIVERSAL	1	16626	SKT,3/4,6P,DP,IMP,13/16	1
6620	SKT,3/4,6P,STD,IMP,5/8	1	16628	SKT,3/4,6P,DP,IMP,7/8	1
6622	SKT,3/4,6P,STD,IMP,11/16	1	16630	SKT,3/4,6P,DP,IMP,15/16	1
6624	SKT,3/4,6P,STD,IMP,3/4	1	16632	SKT,3/4,6P,DP,IMP,1	1
6626	SKT,3/4,6P,STD,IMP,13/16	1	16634	SKT,3/4,6P,DP,IMP,1-1/16	1
6628	SKT,3/4,6P,STD,IMP,7/8	1	16636	SKT,3/4,6P,DP,IMP,1-1/8	1
6630	SKT,3/4,6P,STD,IMP,15/16	1	16638	SKT,3/4,6P,DPIMP,1-3/16	1
6632	SKT,3/4,6P,STD,IMP,1	1	16640	SKT,3/4,6P,DP,IMP,1-1/4	1
6634	SKT,3/4,6P,STD,IMP,1-1/16	1	16642	SKT,3/4,6P,DP,IMP,1-5/16	1
6636	SKT,3/4,6P,STD,IMP,1-1/8	1	16644	SKT,3/4,6P,DP,IMP,1-3/8	1
6638	SKT,3/4,6P,STD,IMP,1-3/16	1	16646	SKT,3/4,6P,DP,IMP,1-7/16	1
6640	SKT,3/4,6P,STD,IMP,1-1/4	1	16648	SKT,3/4,6P,DP,IMP,1-1/2	1
6642	SKT,3/4,6P,STD,IMP,1-5/16	1	16650	SKT,3/4,6P,DP,IMP,1-9/16	1
6644	SKT,3/4,6P,STD,IMP,1-3/8	1	16652	SKT,3/4,6P,DP,IMP,1-5/8	1
6646	SKT,3/4,6P,STD,IMP,1-7/16	1	16654	SKT,3/4,6P,DP,IMP,111/16	1
6648	SKT,3/4,6P,STD,IMP,1-1/2	1	16656	SKT,3/4,6P,DP,IMP,1-3/4	1
6650	SKT,3/4,6P,STD,IMP,1-9/16	1	16660	SKT,3/4,6P,DP,IMP,1-7/8	1
6652	SKT,3/4,6P,STD,IMP,1-5/8	1	16664	SKT,3/4,6P,DP,IMP,2	1
6654	SKT,3/4,6P,STD,IMP,1-11/16	1			
6656	SKT,3/4,6P,STD,IMP,1-3/4	1			
6658	SKT,3/4,6P,STD,IMP,1-13/16	1			

Tool Display Boards

3/8" and 1/2" Impact

BD21		QTY	BD21		QTY
24A	3/8,IMP,ADAPT,3/8FX1/2M	1	4624	SKT,1/2,6P,STP,IMP,3/4	1
2140A	3/8,IMP,UNIVERSAL,JOINT	1	4626	SKT,1/2,6P,STD,IMP,13/16	1
2610	SKT,3/8,6P,STD,IMP,5/16	1	4628	SKT,1/2,6P,STD,IMP,7/8	1
2612	SKT,3/8,6P,STD,IMP,3/8	1	2630	SKT,1/2,6P,STD,IMP,15/16	1
2614	SKT,3/8,6P,STD,IMP,7/16	1	4632	SKT,1/2,6P,STD,IMP,1	1
2616	SKT,3/8,6P,STD,IMP,1/2	1	4634	SKT,1/2,6P,STD,IMP,1-1/16	1
2618	SKT,3/8,6P,STD,IMP,9/16	1	4636	SKT,1/2,6P,STD,IMP,1-1/8	1
2620	SKT,3/8,6P,STD,IMP,5/8	1	4638	SKT,1/2,6P,STD,IMP,1-3/16	1
2622	SKT,3/8,6P,STD,IMP,11/16	1	4640	SKT,1/2,6P,STD,IMP,1-1/4	1
2624	SKT,3/8,6P,STD,IMP,3/4	1	14612	SKT,1/2,6P,DP,IMP,3/8	1
12610	SKT,3/8,6P,DP,IMP,5/16	1	14614	SKT,1/2,6P,DP,IMP,7/16	1
12612	SKT,3/8,6P,DP,IMP,3/8	1	14616	SKT,1/2,6P,DP,IMP,1/2	1
12614	SKT,3/8,6P,DP,IMP,7/16	1	14618	SKT,1/2,6P,DP,IMP,9/16	1
12616	SKT,3/8,6P,DP,IMP,1/2	1	14620	SKT,1/2,6P,DP,IMP,5/8	1
12618	SKT,3/8,6P,DP,IMP,9/16	1	14622	SKT,1/2,6P,DP,IMP,11/16	1
12620	SKT,3/8,6P,DP,IMP,5/8	1	14624	SKT,1/2,6P,DP,IMP,3/4	1
12622	SKT,3/8,6P,DP,IMP,11/16	1	14626	SKT,1/2,6P,DP,IMP,13/16	1
12624	SKT,3/8,6P,DP,IMP,3/4	1	14628	SKT,1/2,6P,DP,IMP,7/8	1
2M610	SKT,3/8,6P,STD,IMP,10MM	1	14630	SKT,1/2,6P,DP,IMP,15/16	1
2M612	SKT,3/8,6P,STD,IMP,12MM	1	14632	SKT,1/2,6P,DP,IMP,1	1
2M613	SKT,3/8,6P,STD,IMP,13MM	1	14634	SKT, 1/2,6P,DP,IMP 1-1/16	1
2M614	SKT,3/8,6P,STD,IMP,14MM	1	14636	SKT, 1/2,6P,DP,IMP 1-1/8	1
2M615	SKT,3/8,6P,STD,IMP,15MM	1	14640	SKT,1/2,6P,DP,IMP,1-1/4	1
2M617	SKT,3/8,6P,STD,IMP,17MM	1	4M613	SKT,1/2,6P,STD,IMP,13MM	1
2M618	SKT,3/8,6P,STD,IMP,18MM	1	4M614	SKT,1/2,6P,STD,IMP,14MM	1
2M619	SKT,3/8,6P,STD,IMP,19MM	1	4M615	SKT,1/2,6P,STD,IMP,15MM	1
4105A	1/2,IMP,EXT,6	1	4M616	SKT,1/2,6P,STD,IMP,16MM	1
4140A	1/2,IMP,U-JOINT	1	4M617	SKT,1/2,6P,STD,IMP,17MM	1
42A	1/2,ADAP,1/2F X 3/8M	1	4M618	SKT,1/2,6P,STD,IMP,18MM	1
46	1/2,ADAP,1/2F X 3/4M	1	4M619	SKT,1/2,6P,STD,IMP,19MM	1
4612	SKT,1/2,6P,STD,IMP,3/8	1	4M621	SKT,1/2,6P,STD,IMP,21MM	1
4614	SKT,1/2,6P,STD,IMP,7/16	1	4M622	SKT,1/2,6P,STD,IMP,22MM	1
4616	SKT,1/2,6P,STD,IMP,1/2	1	4M624	SKT,1/2,6P,STD,IMP,24MM	1
4618	SKT,1/2,6P,STD,IMP,9/16	1	4M627	SKT,1/2,6P,STD,IMP,27MM	1
4620	SKT,1/2,6P,STD,IMP,5/8	1			
4622	SKT,1/2,6P,STD,IMP,11/16	1			



Screwdrivers

BD22		QTY.
GS50	GASKET SCRAPER 1/2"Blade	1
GS75	GASKET SCRAPER 3/4" Blade	1
GS100	GASKET SCRAPER 1" Blade	1
GS150	GASKET SCRAPER 1 1/2" Blade	1
SDE4	SCREWDRIVER, ELECTRICAL, 4"	1
SDE6	SCREWDRIVER, ELECTRICAL, 6"	1
SDE8	SCREWDRIVER, ELECTRICAL, 8"	1
SDP1	SCREWDRIVER, PHILLIP, 1-1/2"	1
SDP3	SCREWDRIVER, PHILLIP, 3"	1
SDP4	SCREWDRIVER, PHILLIP, 4"	1
SDP6	SCREWDRIVER, PHILLIP, 6"	1
SDR4	SCREWDRIVER,MECHANICS, 4"	1
SDR6	SCREWDRIVER,HEAVY,DUTY, 6"	1
SDR8	SCREWDRIVER,HEAVY,DUTY, 8"	1
SDS1	SCREWDRIVER,STUBBY, 1-1/2"	1
SDS4	SCREWDRIVER,SQ-BLADE, 4"	1
SDS6	SCREWDRIVER,SQ-BLADE, 6"	1
SDS8	SCREWDRIVER,SQ-BLADE, 8"	1
SDS10	SCREWDRIVER,SQ-BLADE, 10"	1
SDS12	SCREWDRIVER,SQ-BLADE, 12"	1



Tool Display Boards

Chisel Boards



BD23		QTY.	BD23		QTY.
C120	CHISEL,COLD,LNG,3/4	1	P4	PUNCH,PIN,1/8	1
C124	CHISEL,COLD,LNG,5/8	1	P5	PUNCH,PIN,5/32	1
C129	CHISEL,COLD,LNG,7/8	1	P6	PUNCH,PIN,3/16	1
C132	CHISEL,COLD,LNG,1	1	P7	PUNCH,PIN,7/32	1
C10	CHISEL,COLD,STD,5/16	1	P8	PUNCH,PIN,1/4	1
C12	CHISEL,COLD,STD,3/8	1	P10	PUNCH,PIN,5/16	1
C16	CHISEL,COLD,STD,1/2	1	P23	PUNCH,DRIFT,3/32	1
C20	CHISEL,COLD,STD,5/8	1	P24	PUNCH,DRIFT,1/8	1
C24	CHISEL,COLD,STD,3/4	1	P25	PUNCH,TAPER,5/32	1
C28	CHISEL,COLD,STD,7/8	1	P26	PUNCH,TAPER,3/16	1
C32	CHISEL,COLD,STD,1	1	P26A	PUNCH,DRIFT,7/32	1
C39	CHISEL,CAPE,STD,1/8	1	P27	PUNCH,TAPER,1/4	1
C40	CHISEL,CAPE,STD,3/16	1	P28	PUNCH,TAPER,5/16	1
C42	CHISEL,CAPE,STD,1/4	1	P28A	PUNCH,DRIFT,1/4	1
P32	PUNCH,PRICK,3/8	1	P29	PUNCH,DRIFT,5/16	1
P33	PUNCH,PRICK,1/2	1	192	PRY BAR,BLK,	
P38	PUNCH,CENTER,1/4	1		ROLL 1/2X12	1
P39	PUNCH,CENTER,5/16	1	193	PRY BAR,BLK,	
P40	PUNCH,CENTER,3/8	1		ROLL 1/2X15	1
P42	PUNCH,CENTER,1/2	1	196	PRY BAR,BLK,	
P43	PUNCH,CENTER,5/8	1		STR 5/8X16	1
P2	PUNCH,PIN,1/16	1	197	PRY BAR,BLK,	
P3	PUNCH,PIN,3/32	1		STR 3/4X24	1



HAMMER OPTION

BD23 with Optional Fiberglass Hammers		QTY.
BD23	SAME AS ABOVE PLUS HAMMERS	
HPD2	HAMMER,DEAD,BLOW,1.5 LB	1
HPD3	HAMMER,DEAD,BLOW,2.2 LB	1
HPD4	HAMMER,DEAD,BLOW,2.9 LB	1
HSB15	HAMMER,SOLID,BRASS,1-1/2	1
HSB25	HAMMER,SOLID,BRASS,2-1/2	1

Chisel Boards



PRY BAR OPTION

BD23 with Pry Bar Option		QTY.
BD23	Same as BD23 plus hammers	
192	PRY,BAR,BLK,ROLL,1/2X12	1
193	PRY,BAR,BLK,ROLL,1/2X15	1
196	PRY,BAR,BLK,STR,5/8X16	1
197	PRY,BAR,BLK,STR,3/4X24	1



COUNTER TOP DISPLAY

BD24	Counter Top	QTY.
C120	CHISEL,COLD,LNG,3/4	1
C124	CHISEL,COLD,LNG,5/8	1
C129	CHISEL,COLD,LNG,7/8	1
C132	CHISEL,COLD,LNG,1	1
C10	CHISEL,COLD,STD,5/16	1
C12	CHISEL,COLD,STD,3/8	1
C16	CHISEL,COLD,STD,1/2	1
C20	CHISEL,COLD,STD,5/8	1
C24	CHISEL,COLD,STD,3/4	1
C28	CHISEL,COLD,STD,7/8	1
C32	CHISEL,COLD,STD,1	1
C39	CHISEL,CAPE,STD,1/8	1
C40	CHISEL,CAPE,STD,3/16	1
C42	CHISEL,CAPE,STD,1/4	1
P32	PUNCH,PRICK,3/8	1
P33	PUNCH,PRICK,1/2	1
P38	PUNCH,CENTER,1/4	1
P39	PUNCH,CENTER,5/16	1
P40	PUNCH,CENTER,3/8	1
P42	PUNCH,CENTER,1/2	1
P43	PUNCH,CENTER,5/8	1
P2	PUNCH,PIN,1/16	1
P3	PUNCH,PIN,3/32	1

BD24	Counter Top	QTY.
P4	PUNCH,PIN,1/8	1
P5	PUNCH,PIN,5/32	1
P6	PUNCH,PIN,3/16	1
P7	PUNCH,PIN,7/32	1
P8	PUNCH,PIN,1/4	1
P10	PUNCH,PIN,5/16	1
P23	PUNCH,DRIFT,3/32	1
P24	PUNCH,DRIFT,1/8	1
P25	PUNCH,TAPER,5/32	1
P26	PUNCH,TAPER,3/16	1
P26A	PUNCH,DRIFT,7/32	1
P27	PUNCH,TAPER,1/4	1
P28	PUNCH,TAPER,5/16	1
P28A	PUNCH,DRIFT,1/4	1
P29	PUNCH,DRIFT,5/16	1
192	PRY BAR,BLK, ROLL 1/2X12	1
193	PRY BAR,BLK, ROLL 1/2X15	1
196	PRY BAR,BLK, STR 5/8X16	1
197	PRY BAR,BLK, STR 3/4X24	1

Misc. Display Board Parts Part Number Interchange

Header, Hooks & Peg Boards





PART NO.		QTY.
BD-HEADER	Tool Board Header 23.5" x 3" Molded in Black, Raised Letter, w/2 Mounting Screws	1
1	STRAIGHT HOOK	10
2	HEAVY DUTY STRAIGHT HOOK	5
3	LOOP HOOK	5
BD8	UNIVERSAL PEG BOARD	1

Part Number Interchange

Combination Wrenches - Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1/4	1158	OEX8	1208A	25-208	3108
5/16	1159	OEX10A	1210A	25-210	3110
11/32	1159A	OEX11A	1211A	25-211	3111
3/8	1160	OEX12A	1212ASD	25-212	3112
7/16	1161	OEX14A	1214ASD	25-214	3114
1/2	1162	OEX16A	1216ASD	25-216	3116
9/16	1163	OEX18A	1218ASD	25-218	3118
5/8	1164	OEX20A	1220ASD	25-220	3120
11/16	1165	OEX22A	1222ASD	25-222	3122
3/4	1166	OEX24A	1224ASD	25-224	3124
13/16	1167A	OEX26A	1226ASD	25-226	3126
7/8	1167	OEX28A	1228ASD	25-228	3128
15/16	1168	OEX30A	1230ASD	25-230	3130
1	1170	OEX32A	1232ASD	25-232	3132
1-1/16	1171	OEX34	1234ASD	25-234	3134
1-1/8	1172	OEX36	1236ASD	25-236	3136
1-1/4	1173	OEX40	1240	25-240	3140
1-5/16	1174	OEX42	1242	25-242	3142
1-3/8	1175	OEX44	1244	25-244	3144
1-7/16	1176	OEX46A	1246	25-246	3146
1-1/2	1177	OEX48A	1248	25-248	3148
1-5/8	1180	OEX52A	1252	25-252	3152
1-11/16	1182	OEX54	1254	25-254	3154
1-3/4	1184	OEX56	1256	25-256	3156
1-13/16	1186	OEX58	1258	25-258	3158
1-7/8	1188	OEX60	1260	25-260	3160
2	1190	OEX64	1264	25-264	3164
2-1/16	1191	—	1266	25-266	3166
2-1/8	1192	—	1268	25-268	3168
2-3/16	1193	—	1270	25-270	3170
2-1/4	1194	—	1272	25-272	3172
2-3/8	1195	—	1276	25-276	3176
2-1/2	1196	—	1280	25-280	3180

Combination Wrenches Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1/4	BLK1158	—	—	30-208	—
5/16	BLK1159	GOEX10A	—	30-210	3110B
11/32	BLK1159A	—	—	30-211	—
3/8	BLK1160	GOEX12A	1212BASD	30-212	3112B
7/16	BLK1161	GOEX14A	1214BASD	30-214	3114B
1/2	BLK1162	GOEX16A	1216BASD	30-216	3116B
9/16	BLK1163	GOEX18A	1218BASD	30-218	3118B
5/8	BLK1164	GOEX20A	1220BASD	30-220	3120B
11/16	BLK1165	GOEX22A	1222BASD	30-222	3122B

Combination Wrenches Ind. Black (cont)

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
3/4	BLK1166	GOEX24A	1224BASD	30-224	3124B
13/16	BLK1167A	GOEX26A	1226BASD	30-226	3126B
7/8	BLK1167	GOEX28A	1228BASD	30-228	3128B
15/16	BLK1168	GOEX30A	1230BASD	30-230	3130B
1	BLK1170	GOEX32A	1232BASD	30-232	3132B
1-1/16	BLK1171	GOEX34A	1234BASD	30-234	3134B
1-1/8	BLK1172	GOEX36	1236BASD	30-236	3136B
1-1/4	BLK1173	GOEX40	1240BASD	30-240	3140B
1-5/16	BLK1174	GOEX42	1242B	30-242	3142B
1-3/8	BLK1175	GOEX44	1244B	30-244	3144B
1-7/16	BLK1176	GOEX46A	1246B	30-246	3146B
1-1/2	BLK1177	GOEX48A	1248B	30-248	3148B
1-5/8	BLK1180	GOEX52A	1252B	30-252	3152B
1-11/16	BLK1182	GOEX54	1254B	30-254	3154B
1-3/4	BLK1184	GOEX56	1256B	30-256	3156B
1-13/16	BLK1186	GOEX58	1258B	30-258	3158B
1-7/8	BLK1188	GOEX60	1260B	30-260	3160B
2	BLK1190	GOEX64	1264B	30-264	3164B
2-1/16	BLK1191	—	—	30-266	—
2-1/8	BLK1192	—	—	30-268	—
2-3/16	BLK1193	—	—	30-270	—
2-1/4	BLK1194	—	—	30-272	—
2-3/8	BLK1195	—	—	30-276	—
2-1/2	BLK1196	—	—	30-280	—

Combination Wrenches — Chrome — Metric

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
6MM	1106MM	—	—	—	MC6
7MM	1107MM	—	1207M	—	MC7
8MM	1108MM	OEXM80	1208M	—	MC8
9MM	1109MM	OEXM90A	1209M	—	MC9
10MM	1110MM	OEXM100A	1210M	52-210	MC10
11MM	1111MM	OEXM110A	1211M	52-211	MC11
12MM	1112MM	OEXM120A	1212M	52-212	MC12
13MM	1113MM	OEXM130A	1213M	52-213	MC13
14MM	1114MM	OEXM140A	1214M	52-214	MC14
15MM	1115MM	OEXM150A	1215M	52-215	MC15
16MM	1116MM	OEXM160A	1216M	52-216	MC16
17MM	1117MM	OEXM170A	1217M	52-217	MC17
18MM	1118MM	OEXM180A	1218M	52-218	MC18
19MM	1119MM	OEXM190A	1219M	52-219	MC19
20MM	1120MM	OEXM200A	1220M	52-220	MC20
21MM	1121MM	OEXM210A	1221M	52-221	MC21
22MM	1122MM	OEXM220A	1222M	52-222	MC22
23MM	1123MM	OEXM230A	1223M	52-223	MC23

Combination Wrenches — Chrome — Metric (cont)

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
24MM	1124MM	OEXM240A	1224M	52-224	MC24
25MM	1125MM	OEXM250A	1225M	52-225	MC25
26MM	1126MM	OEXM260A	1226M	52-226	MC26
27MM	1127MM	OEXM270A	1227M	52-227	MC27
28MM	1128MM	—	1228M	—	MC28
29MM	1129MM	OEXM290A	1229M	—	MC29
30MM	1130MM	OEXM300A	1230M	52-230	MC30
32MM	1132MM	OEXM320A	1232M	52-232	MC32
34MM	1134MM	OEXM340	—	—	—
36MM	1136MM	OEXM360	1236M	52-236	MC36
41MM	1141MM	—	1241M	52-241	MC41
46MM	1146MM	—	1246M	52-246	MC46
50MM	1150MM	—	1250M	—	MC50
55MM	1155MM	—	—	—	MC55
60MM	1160MM	—	—	—	MC60

Combination Wrenches — Ind. Black — Metric

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
6MM	BLK1106MM	—	N.A.	56-206	—
7MM	BLK1107MM	—	N.A.	56-207	—
8MM	BLK1108MM	—	N.A.	56-208	—
9MM	BLK1109MM	—	N.A.	56-209	—
10MM	BLK1110MM	GOEXM100A	N.A.	56-210	MC10B
11MM	BLK1111MM	GOEXM110A	N.A.	56-211	MC11B
12MM	BLK1112MM	GOEXM120A	N.A.	56-212	MC12B
13MM	BLK1113MM	GOEXM130A	N.A.	56-213	MC13B
14MM	BLK1114MM	GOEXM140A	N.A.	56-214	MC14B
15MM	BLK1115MM	GOEXM150A	N.A.	56-215	MC15B
16MM	BLK1116MM	GOEXM160A	N.A.	56-216	MC16B
17MM	BLK1117MM	GOEXM170A	N.A.	56-217	MC17B
18MM	BLK1118MM	GOEXM180A	N.A.	56-218	MC18B
19MM	BLK1119MM	GOEXM190A	N.A.	56-219	MC19B
20MM	BLK1120MM	GOEXM200A	N.A.	56-220	MC20B
21MM	BLK1121MM	GOEXM210A	N.A.	56-221	MC21B
22MM	BLK1122MM	GOEXM220A	N.A.	56-222	MC22B
23MM	BLK1123MM	GOEXM230A	N.A.	56-223	MC23B
24MM	BLK1124MM	GOEXM240A	N.A.	56-224	MC24B
25MM	BLK1125MM	—	N.A.	N.A.	MC25B
26MM	BLK1126MM	—	N.A.	N.A.	—
27MM	BLK1127MM	—	N.A.	N.A.	—
28MM	BLK1128MM	—	N.A.	N.A.	—
29MM	BLK1129MM	—	N.A.	N.A.	—
30MM	BLK1130MM	—	N.A.	N.A.	—
32MM	BLK1132MM	—	N.A.	N.A.	—
34MM	BLK1134MM	—	N.A.	N.A.	—

Combination Wrenches — Ind. Black — Metric

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
36MM	BLK1136MM	—	N.A.	N.A.	—
41MM	BLK1141MM	—	N.A.	N.A.	—
46MM	BLK1146MM	—	N.A.	N.A.	—
50MM	BLK1150MM	—	N.A.	N.A.	—
55MM	BLK1155MM	—	N.A.	N.A.	—
60MM	BLK1160MM	—	N.A.	N.A.	—

Double Head Open End Wrenches - Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1/4 × 5/16	1020	V0810	3018	26-007	E810
5/16 × 11/32	1720	—	—	26-031	—
5/16 × 3/8	1721	V01012	3020	26-034	E1012
5/16 × 13/32	1021	—	—	—	—
3/8 × 7/16	1723	V01214	3021	26-043	E1214
3/8 × 1/2	1723A	—	—	—	26-046
7/16 × 1/2	1725	V01416	3025	26-058	E1416
7/16 × 9/16	1725A	—	—	26-064	E1418
1/2 × 9/16	1725B	V01618	3026	26-067	E1618
1/2 × 5/8	1726	—	—	—	—
9/16 × 5/8	1727	V01820	3030	26-079	E1820
9/16 × 11/16	1027C	—	—	—	—
19/32 × 11/16	1027	V01922	3033	—	E1922
5/8 × 11/16	1027B	V02022	3034	26-094	E2022
9/16 × 3/4	1728	—	—	—	—
5/8 × 3/4	1729	V02024	3031	26-097	E2024
11/16 × 3/4	1029B	V02224	3035	26-106	E2224
11/16 × 25/32	1029	—	—	3037	—
11/16 × 13/16	1029C	—	—	—	—
11/16 × 7/8	1030	—	—	—	—
3/4 × 13/16	1731	V02426	—	26-121	E2426
3/4 × 7/8	1731A	V02428	3039	26-124	E2428
13/16 × 7/8	1731B	V02628	3040	26-133	E2628
7/8 × 15/16	1033A	V02830	—	26-139	E2830
7/8 × 1	1733	—	—	—	E2832
15/16 × 1	1033C	V03032	3045	26-151	E3032
7/8 × 1-1/16	1034	—	3041	26-145	E2834
15/16 × 1-1/16	1034A	—	—	—	—
1 × 1-1/8	1735	—	—	26-163	E3236
1-1/16 × 1-1/8	1036B	—	3050	26-166	E3436
1-1/16 × 1-1/4	1037	V03440	3051	26-169	E3440
1-1/8 × 1-1/4	1737	—	—	26-172	E3640
1-1/8 × 1-5/16	1037A	—	—	—	E3642
1-1/4 × 1-5/16	1039B	V04042	3055	26-178	E4042
1-1/4 × 1-7/16	1039	—	—	—	—
1-5/16 × 1-1/2	1039A	—	—	26-187	—

Part Number Interchange

Double Head Open End Wrenches - Chrome (cont)

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1-3/8 × 1-7/16	1039C	V04446	3060	26-190	—
1-1/4 × 1-5/8	1040	—	—	—	—
1-7/16 × 1-5/8	1041	—	—	26-199	—
1-1/2 × 1-5/8	1041B	V04852	3070	26-202	—

Double Head Open End Wrenches - Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1/4 × 5/16	BLK-1020	GV0810	—	—	—
5/16 × 11/32	BLK1720	—	—	—	—
5/16 × 3/8	BLK1721	GV01012	3020B	30-734	E1012B
5/16 × 13/32	BLK1021	—	—	—	—
3/8 × 7/16	BLK1723	GV01214	3021B	30-743	E1214B
3/8 × 1/2	BLK1723A	—	—	—	—
7/16 × 1/2	BLK1725	GV01416	3025B	30-758	E1416B
7/16 × 9/16	BLK1725A	—	—	—	—
1/2 × 9/16	BLK1725B	GV01618	3026B	30-767	E1618B
1/2 × 5/8	BLK1726	—	—	—	—
9/16 × 5/8	BLK1727	GV01820	3030B	30-779	E1820B
9/16 × 11/16	BLK1027C	—	—	—	—
19/32 × 11/16	BLK1027	—	—	—	—
5/8 × 11/16	BLK1027B	GV02022	3034B	30-794	E2022B
9/16 × 3/4	BLK1728	—	—	—	—
5/8 × 3/4	BLK1729	GV02024	3031B	30-797	E2024B
11/16 × 3/4	BLK1029B	GV02224	3035B	30-806	E2224B
11/16 × 25/32	BLK1029	—	—	—	—
11/16 × 13/16	BLK1029C	—	—	—	—
11/16 × 7/8	BLK-1030	—	—	—	—
3/4 × 13/16	BLK1731	GV02426	—	—	—
3/4 × 7/8	BLK1731A	GV02428	3039B	30-824	E2428B
13/16 × 7/8	BLK1731B	GV02628	3040B	—	E2628B
7/8 × 15/16	BLK1033A	GV02830	—	—	—
7/8 × 1	BLK1733	—	—	—	—
15/16 × 1	BLK1033C	GV03032	3045B	30-851	E3032B
7/8 × 1-1/16	BLK1034	—	—	—	—
15/16 × 1-1/16	BLK1034A	—	—	—	—
1 × 1-1/8	BLK1735	—	—	—	—
1-1/16 × 1-1/8	BLK1036B	—	3050B	—	E3436B
1-1/16 × 1-1/4	BLK1037	GV03440	3051B	30-869	E3440B
1-1/8X 1-1/4	BLK1737	—	—	30-872	—
1-1/8 × 1-5/16	BLK1037A	—	—	—	—
1-1/4 × 1-5/16	BLK1039B	GV04042	3055B	—	E4042B
1-1/4 × 1-7/16	BLK1039	—	—	—	E4046B
1-5/16 × 1-1/2	BLK1039A	—	—	—	—
1-3/8 × 1-7/16	BLK1039C	GV04446	3060B	—	—
1-1/4 × 1-5/8	BLK1040	—	—	—	—
1-7/16 × 1-5/8	BLK1041	—	—	30-896	—
1-1/2 × 1-5/8	BLK1041B	GV04852	3070B	30-902	—
1-11/16 × 1-7/8	BLK44A	—	—	—	—
1-13/16 × 2	BLK45	—	—	—	—
2-3/16 × 2-3/8	BLK49	—	—	—	—
2-1/4 × 2-7/16	BLK49A	—	—	—	—

Double Offset Box Wrenches — Short Pattern — 45° — Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
5/16 × 3/8	9721	XS1012	N.A.	—	—
3/8 × 7/16	9723	XS1214	8160	27-143	476
7/16 × 1/2	9725	XS1416	N.A.	27-158	—
1/2 × 9/16	9725B	XS1618	8161	27-167	277
9/16 × 5/8	9727	XS1820	N.A.	27-179	—
5/8 × 11/16	9727A	—	8162	27-194	278
5/8 × 3/4	9729	XS2024	N.A.	—	—

Double Offset Box Wrenches — Short Pattern — 45° — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
5/16 × 3/8	BLK9721	GXS01012	N.A.	N.A.	N.A.
3/8 × 7/16	BLK9723	GXS01214	N.A.	N.A.	N.A.
7/16 × 1/2	BLK9725	GXS01416	N.A.	N.A.	N.A.
1/2 × 9/16	BLK9725B	GXS01618	N.A.	N.A.	N.A.
9/16 × 5/8	BLK9727	GXS01820	N.A.	N.A.	N.A.
5/8 × 11/16	BLK9727A	—	N.A.	N.A.	N.A.
5/8 × 3/4	BLK9729	GXS02024	N.A.	N.A.	N.A.

Double Offset Box Wrenches — Long Pattern — 45° — Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
3/8 × 7/16	8723	XB1214	8180	27-343	2840
7/16 × 1/2	8725	XB1416	N.A.	27-358	—
1/2 × 9/16	8725B	XB1618	8181	27-367	2843
9/16 × 5/8	8727	XB1820	N.A.	27-379	—
5/8 × 11/16	8727A	XB2022	8182	27-394	2846
5/8 × 3/4	8729	XB2024	N.A.	27-397	—
11/16 × 3/4	8029B	XB2224	N.A.	27-406	—
3/4 × 7/8	8731A	XB2428	8184	27-424	—
13/16 × 7/8	8731B	XB2628	N.A.	—	2852
7/8 × 15/16	8033A	XB2830	N.A.	27-439	—
15/16 × 1	8033C	XB3032	8185	27-451	2855
1 × 1-1/8	8735	—	N.A.	—	—
1-1/16 × 1-1/8	8735A	—	N.A.	27-466	2858
1-1/16 × 1-1/4	8037	XB3440	N.A.	27-469	—
1-1/8 × 1-5/16	8037A	—	N.A.	27-475	—
1-1/4 × 1-5/16	8039B	XB4042	N.A.	—	—
1-1/4 × 1-7/16	8039	—	N.A.	27-481	2864
1-5/16 × 1-1/2	8040A	—	N.A.	—	—
1-3/8 × 1-7/16	8040C	XB4446	N.A.	—	—
1-3/8 × 1-1/2	8040	—	N.A.	—	—
1-7/16 × 1-1/2	8040B	—	N.A.	—	—

Double Offset Box Wrenches — Long Pattern — 45° — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
3/8 × 7/16	BLK8723	GXB1214	N.A.	32-243	2840B
7/16 × 1/2	BLK8725	GXB1416	N.A.	32-258	—
1/2 × 9/16	BLK8725B	GXB1618	N.A.	32-267	2843B
9/16 × 5/8	BLK8727	GXB1820	N.A.	32-279	—
5/8 × 11/16	BLK8727A	GXB2022	N.A.	—	2846B
5/8 × 3/4	BLK8729	GXB2024	N.A.	32-297	—
11/16 × 3/4	BLK8029B	GXB2224	N.A.	32-306	—
3/4 × 7/8	BLK8731A	—	N.A.	32-324	—
13/16 × 7/8	BLK8731B	GXB2628	N.A.	32-333	2852B
7/8 × 15/16	BLK8033A	GXB2830	N.A.	—	—
15/16 × 1	BLK8033C	GXB3032	N.A.	32-351	2855B
1 × 1-1/8	BLK8735	—	N.A.	—	—
1-1/16 × 1-1/8	BLK8735A	—	N.A.	32-366	2858B
1-1/16 × 1-1/4	BLK8037	GXB3440	N.A.	32-369	—
1-1/8 × 1-5/16	BLK8037A	—	N.A.	—	—
1-1/4 × 1-5/16	BLK8039B	GXB4042	N.A.	—	—
1-1/4 × 1-7/16	BLK8039	—	N.A.	—	2864B
1-5/16 × 1-1/2	BLK8040A	—	N.A.	—	—
1-3/8 × 1-7/16	BLK8040C	GXB4446	N.A.	—	—
1-3/8 × 1-1/2	BLK8040	—	N.A.	—	—
1-7/16 × 1-1/2	BLK8040B	—	N.A.	—	—

Hydraulic Wrenches — Angle Openings — 15°-60° — Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
11/32 × 11/32	3710A	VS11A	3322	N.A.	N.A.
3/8 × 3/8	3710	VS12A	3324	27-812	N.A.
7/16 × 7/16	3711	VS14A	3328	27-814	N.A.
1/2 × 1/2	3712	VS16A	3332	27-816	N.A.
9/16 × 9/16	3713	VS18A	3336	27-818	N.A.
5/8 × 5/8	3714	VS20A	3340	27-820	N.A.
11/16 × 11/16	3715	VS22A	—	27-822	N.A.
3/4 × 3/4	3716	VS24A	—	27-824	N.A.
13/16 × 13/16	3717	VS26A	—	27-826	N.A.
7/8 × 7/8	3718	VS28A	—	27-828	N.A.
15/16 × 15/16	3719	VS30A	—	27-830	N.A.
1 × 1	3720	VS32A	—	27-832	N.A.
1-1/16 × 1-1/16	3721	VS34A	—	27-834	N.A.
1-1/8 × 1-1/8	3722	VS36A	—	27-836	N.A.
1-3/16 × 1-3/16	3722A	VS38A	—	N.A.	N.A.
1-1/4 × 1-1/4	3723	VS40A	—	27-840	N.A.
1-3/8 × 1-3/8	3724	VS42A	—	27-844	N.A.
1-7/16 × 1-7/16	3725	VS46A	—	27-846	N.A.
1-1/2 × 1-1/2	3726	VS48A	—	27-848	N.A.

Hydraulic Wrenches — Angle Openings — 15°-60° — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
11/32 × 11/32	BLK3710A	—	N.A.	N.A.	N.A.
3/8 × 3/8	BLK3710	GVS12A	N.A.	N.A.	N.A.
7/16 × 7/16	BLK3711	GVS14A	N.A.	N.A.	N.A.
1/2 × 1/2	BLK3712	GVS16A	N.A.	N.A.	N.A.
9/16 × 9/16	BLK3713	GVS18A	N.A.	N.A.	N.A.
5/8 × 5/8	BLK3714	GVS20A	N.A.	N.A.	N.A.
11/16 × 11/16	BLK3715	GVS22A	N.A.	N.A.	N.A.
3/4 × 3/4	BLK3716	GVS24A	N.A.	N.A.	N.A.
13/16 × 13/16	BLK3717	GVS26A	N.A.	N.A.	N.A.
7/8 × 7/8	BLK3718	GVS28A	N.A.	N.A.	N.A.
15/16 × 15/16	BLK3719	GVS30A	N.A.	N.A.	N.A.
1 × 1	BLK3720	GVS32A	N.A.	N.A.	N.A.
1-1/16 × 1-1/16	BLK3721	—	N.A.	N.A.	N.A.
1-1/8 × 1-1/8	BLK3722	—	N.A.	N.A.	N.A.
1-3/16 × 1-3/16	BLK3722A	—	N.A.	N.A.	N.A.
1-1/4 × 1-1/4	BLK3723	—	N.A.	N.A.	N.A.
1-3/8 × 1-3/8	BLK3724	—	N.A.	N.A.	N.A.
1-7/16 × 1-7/16	BLK3725	—	N.A.	N.A.	N.A.
1-1/2 × 1-1/2	BLK3726	—	N.A.	N.A.	N.A.

Service Wrenches 30° — Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
3/4	1224	N.A.	3524	28-024	N.A.
13/16	1226	N.A.	3526	—	N.A.
7/8	1228	N.A.	3528	28-028	N.A.
15/16	1230	N.A.	3530	28-030	N.A.
1	1232	N.A.	3532	28-032	N.A.
1-1/16	1234	N.A.	3534	28-034	N.A.
1-1/8	1236	N.A.	3536	28-036	N.A.
1-3/16	1238	N.A.	3538	28-038	N.A.
1-1/4	1240	N.A.	3540	28-040	N.A.
1-5/16	1236S	N.A.	—	—	N.A.
1-5/16	1242	N.A.	3542	28-042	N.A.
1-3/8	1244	N.A.	3544	28-044	N.A.
1-7/16	1246	N.A.	3546	28-046	N.A.
1-1/2	1248	N.A.	3548	28-048	N.A.
1-9/16	1250	N.A.	3550	28-050	N.A.
1-5/8	1252	N.A.	3552	28-052	N.A.
1-11/16	1254	N.A.	3554	—	N.A.
1-3/4	1256	N.A.	3556	28-056	N.A.
1-13/16	1258	N.A.	3558	—	N.A.
1-7/8	1260	N.A.	3560	28-060	N.A.
1-15/16	1262	N.A.	3562	—	N.A.
2	1264	N.A.	3564	28-064	N.A.
21/8	1268	N.A.	3568	28-068	N.A.
21/4	1272	N.A.	3572	28-072	N.A.
23/8	1276	N.A.	3576	28-076	N.A.
2-1/2	1272S	N.A.	3580	28-080	N.A.
2-9/16	1264S	N.A.	3582	—	N.A.

Service Wrenches 30° — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
3/4	BLK-1224	N.A.	N.A.	N.A.	N.A.
13/16	BLK1226	N.A.	N.A.	N.A.	N.A.
7/8	BLK1228	N.A.	N.A.	N.A.	N.A.
15/16	BLK-1230	N.A.	N.A.	N.A.	N.A.
1	BLK1232	N.A.	N.A.	N.A.	N.A.
1-1/16	BLK1234	N.A.	N.A.	N.A.	N.A.
1-1/8	BLK1236	N.A.	N.A.	N.A.	N.A.
1-3/16	BLK1238	N.A.	N.A.	N.A.	N.A.
1-1/4	BLK1240	N.A.	N.A.	N.A.	N.A.
1-5/16	BLK1236S	N.A.	N.A.	N.A.	N.A.
1-5/16	BLK1242	N.A.	N.A.	N.A.	N.A.
1-3/8	BLK1244	N.A.	N.A.	N.A.	N.A.
1-7/16	BLK1246	N.A.	N.A.	N.A.	N.A.
1-1/2	BLK1248	N.A.	N.A.	N.A.	N.A.
1-9/16	BLK1250	N.A.	N.A.	N.A.	N.A.
1-5/8	BLK1252	N.A.	N.A.	N.A.	N.A.
1-11/16	BLK1254	N.A.	N.A.	N.A.	N.A.
1-3/4	BLK1256	N.A.	N.A.	N.A.	N.A.
1-13/16	BLK1258	N.A.	N.A.	N.A.	N.A.
1-7/8	BLK1260	N.A.	N.A.	N.A.	N.A.
1-15/16	BLK1262	N.A.	N.A.	N.A.	N.A.
2	BLK1264	N.A.	N.A.	N.A.	N.A.
2-1/8	BLK1268	N.A.	N.A.	N.A.	N.A.
2-1/4	BLK1272	N.A.	N.A.	N.A.	N.A.
2-3/8	BLK1276	N.A.	N.A.	N.A.	N.A.
2-1/2	BLK1272S	N.A.	N.A.	N.A.	N.A.
2-9/16	BLK1264S	N.A.	N.A.	N.A.	N.A.

Straight Service Wrenches — Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1	1932	N.A.	N.A.	N.A.	N.A.
1-1/8	1936	N.A.	N.A.	N.A.	N.A.
1-1/2	1948	N.A.	N.A.	N.A.	N.A.
1-5/8	1952	N.A.	N.A.	N.A.	N.A.
1-3/4	1956	N.A.	N.A.	N.A.	N.A.
2	1964	N.A.	N.A.	N.A.	N.A.
2-1/4	1972	N.A.	N.A.	N.A.	N.A.

Check Nut Wrenches 15° — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1/2	601	N.A.	KE16	31-316	N.A.
7/16	601A	N.A.	KE14	31-314	N.A.
19/32	602	N.A.	KE19	—	N.A.
9/16	602A	N.A.	KE18	31-318	N.A.
11/16	603	N.A.	KE22	31-332	N.A.
5/8	603A	N.A.	KE20	31-320	N.A.
3/4	604A	N.A.	KE24	31-324	N.A.
7/8	605	N.A.	KE28	31-328	N.A.
13/16	605A	N.A.	KE26	31-326	N.A.
15/16	606A	N.A.	KE30	31-330	N.A.
1	606B	N.A.	KE32	31-332	N.A.
1-1/16	607	N.A.	KE34	31-334	N.A.
1-1/8	607A	N.A.	KE36	31-336	N.A.
1-1/4	608	N.A.	KE40	31-340	N.A.
1-5/16	608A	N.A.	KE42	—	N.A.
1-1/2	609	N.A.	KE48	31-348	N.A.
1-5/8	610	N.A.	KE52	31-352	N.A.
1-11/16	610A	N.A.	KE54	—	N.A.

Ratcheting Box Wrenches — Straight Pattern — Chrome

Wrench Opening		Part Number Martin	Snap-On	Proto	Armstrong
1/4 × 5/16	6 pt	RB810	R810SA	1191	27-587
1/4 × 5/16	12 pt	RB810DH	R810B	1191T	27-588
3/8 × 7/16	6 pt	RB1214	R1214SA	1192	27-590
3/8 × 7/16	12 pt	RB1214DH	R1214B	1192T	27-591
1/2 × 9/16	6 pt	RB1618	R1618SA	1193	27-593
1/2 × 9/16	12 pt	RB1618DH	R1618A	1193T	27-594
5/8 × 11/16	12 pt	RB2022	R2022A	1994	27-596
5/8 × 3/4	12 pt	RB2024	R2024A	1996	27-599
11/16 × 13/16	12 pt	RB2226	—	—	—
3/4 × 7/8	12 pt	RB2428	R2428A	1995	27-602

Ratcheting Box Wrenches and Sets 25° Offset Pattern — Chrome

Wrench Opening		Part Number Martin	Snap-On	Proto	Armstrong
1/4 × 5/16	6 pt	RB0810	—	1181	27-613
3/8 × 7/16	6 pt	RB01214	—	1182	27-616
1/2 × 9/16	6 pt	RB01618	—	1183	27-619
5/8 × 11/16	12 pt	RB02022	RYA2022A	1984	27-622
5/8 × 3/4	12 pt	RB02024	—	1986	27-624
11/16 × 13/16	12 pt	RB02226	—	—	—
3/4 × 7/8	12 pt	RB02428	RYA2428	1985	27-626

Flare Nut Wrench 12 Pt. — Chrome

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
3/8	4112	N.A.	N.A.	N.A.	N.A.
7/16	4114	N.A.	N.A.	N.A.	N.A.
1/2	4116	N.A.	N.A.	N.A.	N.A.
9/16	4118	N.A.	N.A.	N.A.	N.A.
5/8	4120	N.A.	N.A.	N.A.	N.A.
11/16	4122	N.A.	N.A.	N.A.	N.A.
3/4	4124	N.A.	N.A.	N.A.	N.A.
13/16	4126	N.A.	N.A.	N.A.	N.A.
7/8	4128	N.A.	N.A.	N.A.	N.A.
15/16	4130	N.A.	N.A.	N.A.	N.A.
1	4132	N.A.	N.A.	N.A.	N.A.
1-1/16	4134	N.A.	N.A.	N.A.	N.A.
1-1/8	4136	N.A.	N.A.	N.A.	N.A.
1-1/4	4140	N.A.	N.A.	N.A.	N.A.
1-3/8	4144	N.A.	N.A.	N.A.	N.A.
1-1/2	4148	N.A.	N.A.	N.A.	N.A.

Flare Nut Wrench 12 Pt. — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
3/8	BLK4112	—	N.A.	N.A.	N.A.
7/16	BLK4114	—	N.A.	N.A.	N.A.
1/2	BLK4116	—	N.A.	N.A.	N.A.
9/16	BLK4118	RX18	N.A.	N.A.	N.A.
5/8	BLK4120	RX20	N.A.	N.A.	N.A.
11/16	BLK4122	RX22	N.A.	N.A.	N.A.
3/4	BLK4124	RX24	N.A.	N.A.	N.A.
13/16	BLK4126	RX26	N.A.	N.A.	N.A.
7/8	BLK4128	RX28	N.A.	N.A.	N.A.
15/16	BLK4130	RX30	N.A.	N.A.	N.A.
1	BLK4132	RX32	N.A.	N.A.	N.A.
1-1/16	BLK4134	RX34	N.A.	N.A.	N.A.
1-1/8	BLK4136	RX36	N.A.	N.A.	N.A.
1-1/4	BLK4140	RX40	N.A.	N.A.	N.A.
1-3/8	BLK4144	RX44	N.A.	N.A.	N.A.
1-1/2	BLK4148	RX48	N.A.	N.A.	N.A.

Adjustable Wrenches 22-1/2° Angle — Cobalt

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
6	A6	AD6	706	28-506	65306
8	A8	AD8	708	28-508	65308
10	A10	AD10	710	28-510	65310
12	A12	AD12	712	28-512	65312
15	A15	D715	715	28-515	65315
18	A18	D718	718	28-518	65318
24	A24	D724	724	28-524	65324

Adjustable Wrenches — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
6	A6T	DA26	706S	34-506	65306B
8	A8T	DA28	708S	34-508	65308B
10	A10T	DA210	710S	34-510	35310B
12	A12T	DA212	712S	34-512	65312B
15	A15T	DA215	715S	34-515	65315B
18	A18T	—	718S	34-518	65318B
24	A24T	—	724S	—	65324B

Set Screw Wrench — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1/4 × 5/16	525	N.A.	N.A.	35-457	N.A.
5/16 × 3/8	527	N.A.	N.A.	35-463	N.A.
3/8 × 7/16	529	N.A.	N.A.	35-466	N.A.
1/2 × 5/8	534	N.A.	N.A.	35-478	N.A.

Single Head Open End Wrenches — Ind. Black

Wrench Opening	Part Number Martin	Snap-On	Proto	Armstrong	Gray
1/2	1	—	N.A.	31-016	1SE
9/16	702	—	N.A.	31-018	702SE
5/8	703	—	N.A.	—	703SE
11/16	3	—	N.A.	31-022	3SE
3/4	704	—	N.A.	31-024	704SE
13/16	705	—	N.A.	—	705SE
7/8	5	OE128B	N.A.	31-028	5SE
15/16	6A	OE130B	N.A.	31-030	6SE
1	706	OE132B	N.A.	31-032	706SE
1-1/16	7	OE134B	N.A.	31-034	7SE
1-1/8	707	OE136B	N.A.	31-036	707SE
1-1/4	8	OE140B	N.A.	31-040	8SE
1-5/16	8A	OE142B	N.A.	—	—
1-3/8	708A	—	N.A.	31-044	708ASE
1-7/16	9	OE146B	N.A.	31-046	9SE
1-1/2	709	OE148B	N.A.	31-048	709SE
1-5/8	10	—	N.A.	31-052	10SE
1-11/16	10A	—	N.A.	—	—
1-13/16	11	—	N.A.	31-058	11SE
1-7/8	11A	—	N.A.	—	11ASE
2	12	—	N.A.	31-064	12SE
2-1/16	12A	—	N.A.	—	—
2-3/16	13	—	N.A.	31-070	—
2-1/4	13A	—	N.A.	31-072	13ASE
2-3/8	14	—	N.A.	31-076	14SE
2-7/16	14A	—	N.A.	31-078	—
2-9/16	15	—	N.A.	31-082	15SE
2-5/8	15A	—	N.A.	31-084	—
2	16	—	N.A.	31-088	16SE
2-13/16	16B	—	N.A.	—	—
2-15/16	16A	—	N.A.	31-094	—
3	17A	—	N.A.	31-096	17ASE
3-1/8	17	—	N.A.	31-100	17SE
3-3/8	18A	—	N.A.	31-108	—
3-1/2	18	—	N.A.	31-112	—
3-3/4	19B	—	N.A.	31-120	—
3-7/8	19	—	N.A.	31-124	—
4-1/8	19C	—	N.A.	—	—
4-1/4	19A	—	N.A.	—	—
4-1/2	20B	—	N.A.	—	—
4-5/8	20	—	N.A.	—	—
5	20A	—	N.A.	—	—

Adjustable Face Spanner — Ind. Black

Extreme Capacity	Part Number Martin	Snap-On	Proto	Armstrong	Gray
2	482	AFS482	C482	34-151	AFS2
3	483	AFS483	C483	34-154	AFS3
4	484	AFS484	C484	34-157	AFS4

Part Number Interchange

Pin Spanner — Ind. Black

For Circle Diameter	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
1	452	N.A.	N.A.	34-201	N.A.
1-1/4	453	N.A.	N.A.	34-204	N.A.
1-1/2	454	N.A.	N.A.	34-207	N.A.
1-3/4	455	N.A.	N.A.	34-210	N.A.
2	456	N.A.	N.A.	34-213	N.A.
2-1/4	457	N.A.	N.A.	34-216	N.A.
2-1/2	458	N.A.	N.A.	34-219	N.A.
2-3/4	459	N.A.	N.A.	34-222	N.A.
3	460	N.A.	N.A.	34-225	N.A.
3-1/4	461	N.A.	N.A.	34-228	N.A.
3-1/2	462	N.A.	N.A.	34-231	N.A.
3-3/4	463	N.A.	N.A.	34-234	N.A.
4	464	N.A.	N.A.	34-237	N.A.
5	466	N.A.	N.A.	34-240	N.A.
6	468	N.A.	N.A.	34-243	N.A.

Face Spanner — Ind. Black

Center Distance of Pins	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
1	418	N.A.	N.A.	34-101	N.A.
1-1/4	420	N.A.	N.A.	34-104	N.A.
1-1/2	422	N.A.	N.A.	34-107	N.A.
1-3/4	424	N.A.	N.A.	34-110	N.A.
2	426	N.A.	N.A.	34-113	N.A.
2-1/4	428	N.A.	N.A.	34-116	N.A.
2-1/2	430	N.A.	N.A.	34-119	N.A.
2-3/4	432	N.A.	N.A.	34-121	N.A.
3	434	N.A.	N.A.	34-124	N.A.
3-1/4	436	N.A.	N.A.	34-127	N.A.
3-1/2	438	N.A.	N.A.	34-130	N.A.
3-3/4	440	N.A.	N.A.	34-133	N.A.
4	442	N.A.	N.A.	34-136	N.A.

Adjustable Hook Spanner — Ind. Black

Capacity Range	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
3/4 to 2	471	AHS300	C471	34-301	AHS2
1-1/4 to 3	472	AHS301	C472	34-304	AHS3
2 to 4-3/4	474	AHS304	C474	34-307	AHS4
4-1/2 to 6-1/4	474A	AHS307	C474A	34-310	AHS6
6-1/8 to 8-3/4	474B	—	—	34-313	AHS8

Adjustable Pin Spanner — Ind. Black

Capacity Range	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
3/4 to 2	471	APS351	N.A.	34-351	APS2
3/4 to 2	0471A	—	N.A.	34-354	APS21
1-1/4 to 3	472	—	N.A.	34-357	APS3
1-1/4 to 3	0472A	—	N.A.	34-360	APS31
2 to 4-3/4	474	APS363	N.A.	34-363	—
4-1/2 to 6-1/4	0474A	APS366	N.A.	34-366	APS6

Construction Wrench 15° Angle — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
5/8	203A	N.A.	C203A	32-820	N.A.
11/16	203	N.A.	C203	32-822	N.A.
3/4	204A	N.A.	C204A	32-824	N.A.
7/8	205	N.A.	C205	32-828	N.A.
15/16	206	N.A.	C206C	32-830	N.A.
1	206B	N.A.	C206B	32-832	N.A.
1-1/16	207	N.A.	C207	32-834	N.A.
1-1/8	207A	N.A.	C207A	32-836	N.A.
1-1/4	208	N.A.	C208	32-840	N.A.
1-5/16	208A	N.A.	—	32-842	N.A.
1-7/16	209	N.A.	C209	32-846	N.A.
1-1/2	209A	N.A.	C209A	32-848	N.A.
1-5/8	210	N.A.	C210	32-852	N.A.
1-11/16	210A	N.A.	C210A	—	N.A.
1-13/16	211	N.A.	C211	32-858	N.A.
1-7/8	211A	N.A.	C211A	32-860	N.A.
2	212	N.A.	C212	32-864	N.A.

Structural Wrench Offset — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
5/8	903A	N.A.	C903A	32-520	903A
11/16	903	N.A.	C903	—	903
3/4	904A	N.A.	C904A	32-524	904A
13/16	905A	N.A.	C905A	—	—
7/8	905	N.A.	C905	32-528	905
15/16	906C	N.A.	C905B	32-530	906
1	906B	N.A.	C906B	32-532	906B
1-1/16	907	N.A.	C907	32-534	907
1-1/8	907A	N.A.	C907A	32-536	907A
1-1/4	908	N.A.	C908	32-540	908
1-5/16	908A	N.A.	C908A	32-542	908A
1-7/16	909	N.A.	C909	32-546	909
1-1/2	909A	N.A.	C909A	32-548	909A
1-5/8	910	N.A.	C910	32-552	910
1-11/16	910A	N.A.	C910A	32-554	—
1-13/16	911	N.A.	C911	32-558	911
1-7/8	911A	N.A.	C911A	32-560	911A
2	912	N.A.	C912	32-564	912

Structural Box Wrenches — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
13/16	8905A	N.A.	2613	—	N.A.
7/8	8905	N.A.	2614	32-728	N.A.
15/16	8906	N.A.	2615	32-730	N.A.
1	8906B	N.A.	2616	32-732	N.A.
1-1/16	8907	N.A.	2617	32-734	N.A.
1-1/8	8907A	N.A.	2618	32-736	N.A.
1-1/4	8908	N.A.	2620	32-740	N.A.
1-5/16	8908A	N.A.	2621	32-742	N.A.
1-7/16	8909	N.A.	2623	32-746	N.A.
1-1/2	8909A	N.A.	2624	32-748	N.A.
1-5/8	8910	N.A.	2626	32-752	N.A.
1-11/16	8910A	N.A.	2627	32-754	N.A.
1-13/16	8911	N.A.	2629	32-758	N.A.
1-7/8	8911A	N.A.	2630	32-760	N.A.
2	8912	N.A.	2632	32-764	N.A.
2-3/16	8913	N.A.	2635	32-770	N.A.
2-3/8	8914	N.A.	2638	32-776	N.A.
2-9/16	8915	N.A.	2641	32-782	N.A.
2-3/4	8916	N.A.	2644	32-788	N.A.

Striking Face Box Wrenches — Offset Pattern — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
1-1/16	8807	X340B	2617SW	33-034	66834
1-1/8	8807A	X360B	2618SW	33-036	66836
1-1/4	8808	X400C	2620SW	33-040	66840
1-5/16	8808A	X420B	2621SW	33-042	66842
1-3/8	8809B	X440B	—	—	66844
1-7/16	8809	X460B	2623SW	33-046	66846
1-1/2	8809A	X480B	2624SW	33-048	66848
1-5/8	8810	X520B	2626SW	33-052	66852
1-11/16	8810A	X540B	2627SW	33-054	66854
1-3/4	8811B	X560B	2628SW	33-056	66856
1-13/16	8811	X580B	2629SW	33-058	66858
1-7/8	8811A	X600B	2630SW	33-060	66860
1-15/16	8812A	—	—	33-062	66862
2	8812	X640B	2632SW	33-064	66864
2-1/8	8813B	—	2634SW	33-068	66868
2-3/16	8813	X700B	2635SW	33-070	66870
2-1/4	8813A	X720B	2636SW	33-072	66872
2-5/16	8814A	—	2637SW	33-074	66874
2-3/8	8814	X760B	2638SW	33-076	66876
2-1/2	8815B	—	2640SW	33-080	66880
2-9/16	8815	X820B	2641SW	33-082	66882
2-5/8	8815A	X840B	2642SW	33-084	66884
2-3/4	8816	X880B	2644SW	33-088	66888
2-15/16	8816B	X940B	2647SW	33-094	66894
3	8817	—	2648SW	33-096	66896
3-1/8	8817A	X1000B	2650SW	33-100	66899

Striking Face Box Wrenches Offset Pattern — Ind. Black — Metric

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
32MM	8832MM	N.A.	2632WM	59-032	66932
36MM	8836MM	N.A.	2636WM	59-036	66936
41MM	8841MM	N.A.	2641WM	59-041	66941
46MM	8846MM	N.A.	2646WM	59-046	66946
50MM	8850MM	N.A.	2650WM	59-050	66950
55MM	8855MM	N.A.	2655WM	59-055	66955
60MM	8860MM	N.A.	2660WM	59-060	66960
65MM	8865MM	N.A.	2665WM	59-065	66965
70MM	8870MM	N.A.	2670WM	59-070	66970
75MM	8875MM	N.A.	2675WM	59-075	66975
80MM	8880MM	N.A.	2680WM	59-080	66980

Striking Face 6 Pt. Box Wrenches Straight Pattern — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
1-1/16	RN7063	N.A.	2717SW	33-354	N.A.
1-1/4	RN7075	N.A.	2720SW	33-540	N.A.
1-7/16	RN7088	N.A.	2723SW	33-546	N.A.
1-5/8	RN7100	N.A.	2726SW	33-552	N.A.
1-13/16	RN7113	N.A.	2729SW	33-558	N.A.
2	RN7125	N.A.	2732SW	33-564	N.A.
2-3/16	RN7138	N.A.	2735SW	33-570	N.A.
2-3/8	RN7150	N.A.	2738SW	33-576	N.A.
2-9/16	RN7163	N.A.	2741SW	33-582	N.A.
2-3/4	RN7175	N.A.	2744SW	33-588	N.A.
2-15/16	RN7188	N.A.	2747SW	33-594	N.A.
3-1/8	RN7200	N.A.	2750SW	33-600	N.A.
3-1/2	RN7225	N.A.	2756SW	33-612	N.A.
3-7/8	RN7250	N.A.	2762SW	33-624	N.A.

Striking Face Box Wrenches — Straight Pattern 12 Pt. — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
1-1/16	1807	—	SN17	—	N.A.
1-3/16	1808B	—	SN19	—	N.A.
1-1/4	1808	DX140	SN20	33-340	N.A.
1-5/16	1808A	DX142	USN321	33-342	N.A.
1-3/8	1809B	DX144	USN322	33-344	N.A.
1-7/16	1809	DX146	USN323	33-346	N.A.
1-1/2	1809A	DX148	USN324	33-348	N.A.
1-5/8	1810	DX152	USN326	33-352	N.A.
1-11/16	1810A	DX154	USN327	33-354	N.A.
1-3/4	1811B	DX156	USN328	33-356	N.A.
1-13/16	1811	DX158	USN329	33-358	N.A.
1-7/8	1811A	DX160	USN330	33-360	N.A.
2	1812	DX164	USN332	33-364	N.A.
2-1/16	1812B	DX166	USN333	33-366	N.A.
2-1/8	1813B	—	USN334	33-368	N.A.
2-3/16	1813	DX170	USN335	33-370	N.A.

Striking Face Box Wrenches — Straight Pattern 12 Pt. — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
2-1/4	1813A	DX172	USN336	33-372	N.A.
2-3/8	1814	DX176	USN338	33-376	N.A.
2-9/16	1815	DX182	USN341	33-382	N.A.
2-5/8	1815A	DX184	USN342	33-384	N.A.
2-3/4	1816	DX188	USN344	33-388	N.A.
2-15/16	1816B	DX194	USN347	33-394	N.A.
3	1817A	DX196	USN348	33-396	N.A.
3-1/8	1817	DX1100	USN350	33-400	N.A.
3-3/8	1818A	DX1108	USN354	33-408	N.A.
3-1/2	1818	DX1112	USN356	33-412	N.A.
3-3/4	1819B	DX1120	USN360	33-420	N.A.
3-7/8	1819	DX1124	USN362	33-424	N.A.
4-1/8	1820B	DX1132	USN366	33-432	N.A.
4-1/4	1820	DX1136	USN368	33-436	N.A.
4-1/2	1821B	DX1144	USN372	33-444	N.A.
4-5/8	1821	DX1148	USN374	33-458	N.A.

Machinist Wrench — 12 Pt. — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
1/2	801	N.A.	N.A.	N.A.	N.A.
9/16	802A	N.A.	N.A.	N.A.	N.A.
5/8	803A	N.A.	N.A.	N.A.	N.A.
11/16	803	N.A.	N.A.	N.A.	N.A.
3/4	804A	N.A.	N.A.	N.A.	N.A.
7/8	805	N.A.	N.A.	N.A.	N.A.
15/16	806	N.A.	N.A.	N.A.	N.A.
1	806B	N.A.	N.A.	N.A.	N.A.
1-1/16	807	N.A.	N.A.	N.A.	N.A.
1-1/8	807A	N.A.	N.A.	N.A.	N.A.
1-1/4	808	N.A.	N.A.	N.A.	N.A.
1-1/2	809A	N.A.	N.A.	N.A.	N.A.

Offset Socket Wrench — Square Opening — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
1/4	261J	N.A.	N.A.	—	N.A.
5/16	262H	N.A.	N.A.	35-310	N.A.
3/8	263H	N.A.	N.A.	35-312	N.A.
7/16	265H	N.A.	N.A.	35-314	N.A.
1/2	266H	N.A.	N.A.	35-316	N.A.
9/16	267H	N.A.	N.A.	—	N.A.
5/8	268H	N.A.	N.A.	35-320	N.A.
3/4	269H	N.A.	N.A.	35-324	N.A.
1-1/4	276H	N.A.	N.A.	—	N.A.

Offset Socket Wrench — Hexagon Opening — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
7/16	263D	N.A.	N.A.	—	N.A.
1/2	264A	N.A.	N.A.	35-216	N.A.
9/16	265D	N.A.	N.A.	35-218	N.A.
5/8	266D	N.A.	N.A.	35-220	N.A.
3/4	267D	N.A.	N.A.	35-224	N.A.
7/8	269A	N.A.	N.A.	—	N.A.
15/16	270S	N.A.	N.A.	35-230	N.A.
1-1/16	271A	N.A.	N.A.	35-234	N.A.
1-1/8	271D	N.A.	N.A.	35-236	N.A.
1-1/4	273A	N.A.	N.A.	35-240	N.A.
1-7/16	275A	N.A.	N.A.	—	N.A.
1-1/2	275D	N.A.	N.A.	—	N.A.
1-5/8	276A	N.A.	N.A.	—	N.A.

Tee-Handle Socket Wrench — Square Opening — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
3/16	961H	N.A.	N.A.	35-106	N.A.
1/4	961J	N.A.	N.A.	35-108	N.A.
5/16	962H	N.A.	N.A.	35-110	N.A.
3/8	963H	N.A.	N.A.	35-112	N.A.
7/16	965H	N.A.	N.A.	35-114	N.A.
1/2	966H	N.A.	N.A.	35-116	N.A.
9/16	967H	N.A.	N.A.	—	N.A.
5/8	968H	N.A.	N.A.	—	N.A.
3/4	969H	N.A.	N.A.	—	N.A.
7/8	971H	N.A.	N.A.	—	N.A.

Tee-Handle Socket Wrench — Hexagon Opening — Ind. Black

Wrench Opening	Part Number				
	Martin	Snap-On	Proto	Armstrong	Gray
5/16961A	N.A.	N.A.	35-010	N.A.	
3/8	962D	N.A.	N.A.	35-012	N.A.
7/16	963D	N.A.	N.A.	35-014	N.A.
1/2	964A	N.A.	N.A.	35-016	N.A.
9/16	965D	N.A.	N.A.	35-018	N.A.
5/8	966D	N.A.	N.A.	35-020	

SYNCHRONOUS DRIVES

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STOCK TIMING PULLEYS

1/5" - 7/8" PITCH

QD — TAPER BUSHED AND STOCK BORE



Stock Bore



Taper Bushed



QD

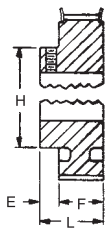
PITCH IN.	PULLEY DESIGNATION
1/5"	XL (Extra Light)
3/8"	L (Light)
1/2"	H (Heavy)
7/8"	XH (Extra Heavy)

Martin Timing Pulleys are manufactured to extremely close specifications and are stocked in minimum plain bore, Taper Bushed and Q.D. bushed styles depending on size and pitch.

See tables for stock pulley types. Bushings are priced separately and must be added to pulley price.

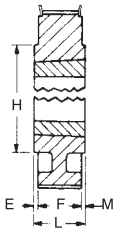
Illustrations below indicate stock pulley construction type listed in tables.

Type DF

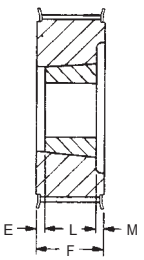


Type D

Type CF

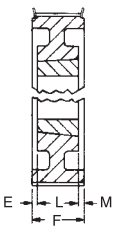


Type C

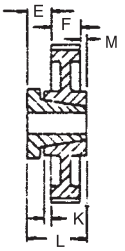


Type KF

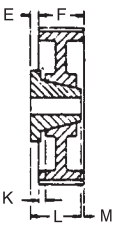
Type AF



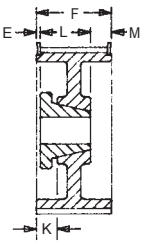
Type A



Type G



Type H



Type J

"F" designation in pulley type means pulley is flanged. When drive center distance is eight times the diameter of the smaller pulley or when drive is operating on vertical shafts, both pulleys should be flanged.

DEFINITION OF CATALOG NUMBERS

EX: TB 20L100
- TB — Requires Taper Bushing
- 20 — Number of Teeth
- L — 3/8" Pitch (Light)
- 100 — Belt Width 1"

EX: 72L100SD
- 72 — Number of Teeth
- L — 3/8" Pitch (Light)
- 100 — Belt Width 1"
- SD — Requires QD Bushing

EX: 16L100
- Min. Plain Bore

Pulley sizes shown stocked as stock bore only: max. bore listed is without keyway. If keyway is used reduce max. bore by twice keyway depth.

Pulley Style Designation As Shown in Tables

Dash 1 = Block Body Style
Dash 2 = Web Style
Dash 3 = Arm/Spoke Style

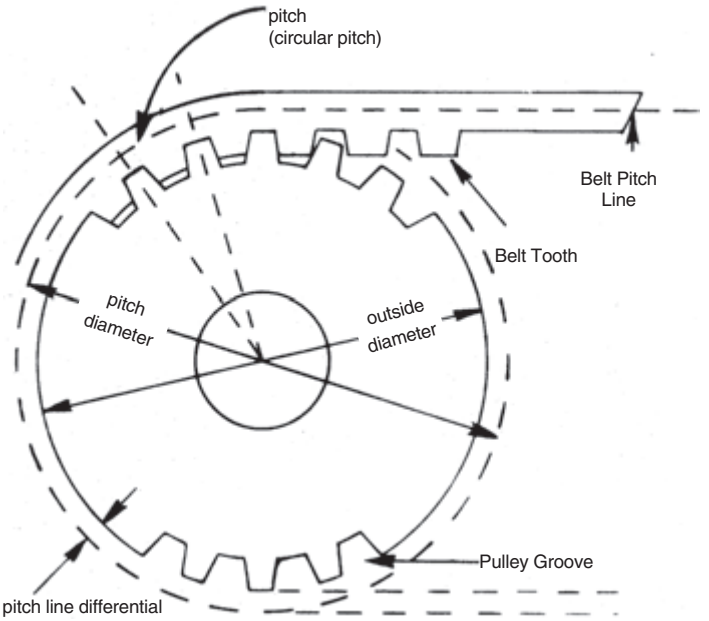
Size XXH (1¼" Pitch).
Available as made-to-order.
Call your nearest Martin facility.

Let us quote your made-to-order and large quantity requirements.

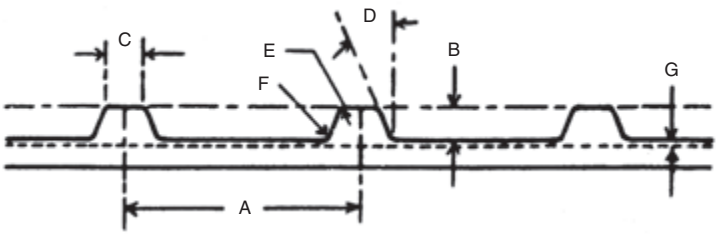
Timing Pulley Terminology

Timing belts and pulleys — in order to handle a wide range of loads, speeds and applications at highest possible efficiencies — are made in five stock pitches. Circular pitch (usually referred to as pitch) is a basic consideration in the selection of timing pulleys as with gear and chain drives. Pitch is the distance between groove centers and is measured on the pulley pitch circle. On the belt, pitch is the distance between tooth centers and is measured on the pitch line of the belt.

The pitch line of the belt is located within the tension member and coincides with the pitch circle of the pulley mating with it. Any timing belt must be run with pulleys of the same pitch. A belt of one pitch cannot be used successfully with pulleys of a different pitch.



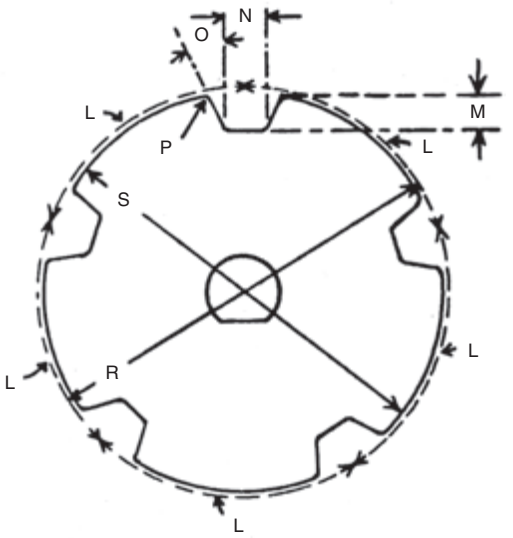
TIMING BELT TERMINOLOGY



A Pitch of Teeth
B Depth of Teeth
C Width at Bottom of Teeth
D Pressure Angle
E Radius at Bottom of Teeth
F Radius at Top of Teeth
G Pitch Line Differential

Belt P.L. = “A” X Total No. of Teeth in Belt

TIMING PULLEY TERMINOLOGY



L Circular Pitch of Groove
M Minimum Depth of Groove, Including Clearance
N Width of Groove at Minimum Depth, Including Clearance
O Pressure Angle
P Top Radius of Groove
R Pitch Diameter (Always > S)
S Outside Diameter

Timing Pulley Terminology

Timing Pulleys

Timing pulleys have evenly spaced axial grooves cut in their periphery to make correct, positive engagement with the mating teeth of the belt. These pulleys are designed so that the teeth of the belt enter and leave the grooves with negligible friction. All pulleys, stock and made-to-order, have minimum tooth-to-groove clearance (backlash). The pulley's pitch diameter will always be greater than its outside diameter. Pulleys are available in a wide range of stock widths and diameters.

Minimum Pulley Diameters

pitch	speed rpm	recommended minimum*	
		pitch diam. in.	no. of grooves
1/5 in. (XL)	3500	.764	12 XL
	1750	.637	10 XL
	1160	.637	10 XL
3/8 in. (L)	3500	1.910	16 L
	1750	1.671	14 L
	1160	1.432	12 L
1/2 in. (H)	3500	3.183	20 H
	1750	2.865	18 H
	1160	2.546	16 H
7/8 in. (XH)	1750	7.242	26 XH
	1160	6.685	24 XH
	870	6.127	22 XH
1 1/4 in. (XXH)	1750	10.345	26 XXH
	1160	9.549	24 XXH
	870	8.754	22 XXH

*Smaller diameter pulleys can be used if a corresponding reduction in belt service life is satisfactory.

Flanged Pulleys

Because timing belts have an inherent, gentle side thrust, it is necessary to use at least one flanged pulley to prevent the belt from riding off. Generally, for economy, the smaller pulley in each drive is flanged. However, when the center distance is greater than eight times the diameter of the smaller pulley on drive ratios less than 3 to 1, or when the drive is operated on other than horizontal shafts — both pulleys should be flanged. When a drive has three pulleys, at least two should be flanged. If the drive has more than three pulleys, every other pulley should be flanged.

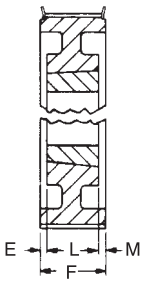
Pulley Diameters

Stock timing belts should not be used over pulley diameters less than those recommended above without expecting some reduction in belt life. This reduced belt life is the result of flex fatigue of the steel tension members in the belt. If pulleys smaller than recommended must be used, the use of special timing belts should be considered.

Martin Stock Timing Pulleys

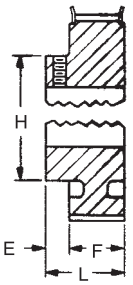
XL
1/5" Pitch

Type AF



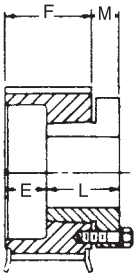
Type A

Type DF



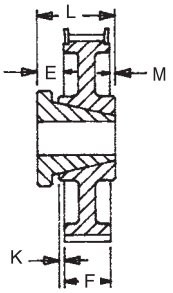
Type D

Type E



Type EF

Type GF



Type G

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

"F" type description indicates flanged.

XL - 1/5" Pitch

XL 037 For Belts 1/4" and 3/8" Wide
Minimum Plain Bore **F = 9/16**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		E	H	L	WT
					Stk.	Max.				
10	10XL037	0.637	0.929	DF-1	3/16	1/4	7/32	7/16	25/32	0.03
11	11XL037	0.700	0.929	DF-1	3/16	1/4	7/32	7/16	25/32	0.04
12	12XL037	0.764	0.993	DF-1	3/16	5/16	7/32	1/2	25/32	0.06
14	14XL037	0.891	1.120	DF-1	1/4	3/8	7/32	9/16	25/32	0.08
15	15XL037	0.955	1.184	DF-1	1/4	7/16	7/32	5/8	25/32	0.09
16	16XL037	1.019	1.248	DF-1	1/4	1/2	7/32	11/16	25/32	0.10
18	18XL037	1.146	1.375	DF-1	1/4	9/16	7/32	13/16	25/32	0.13
20	20XL037	1.273	1.502	DF-1	1/4	11/16	5/16	15/16	7/8	0.18
21	21XL037	1.337	1.566	DF-1	1/4	11/16	5/16	15/16	7/8	0.19
22	22XL037	1.401	1.630	DF-1	1/4	3/4	5/16	1	7/8	0.22
24	24XL037	1.528	1.756	DF-1	1/4	13/16	5/16	1 1/16	7/8	0.25
28	28XL037	1.783	2.011	DF-1	1/4	15/16	5/16	1 3/16	7/8	0.34
30	30XL037	1.910	2.138	DF-1	5/16	1 1/16	5/16	1 3/8	7/8	0.41
32	32XL037	2.037	—	D-1	5/16	1 3/16	7/16	1 1/2	1	0.25
36	36XL037	2.292	—	D-1	5/16	1 3/16	7/16	1 1/2	1	0.29
40	40XL037	2.546	—	D-1	5/16	1 3/16	7/16	1 1/2	1	0.35
42	42XL037	2.674	—	D-1	5/16	1 3/16	7/16	1 1/2	1	0.31
44	44XL037	2.801	—	D-1	5/16	1 3/16	7/16	1 1/2	1	0.34
48	48XL037	3.056	—	D-1	5/16	1 3/16	7/16	1 1/2	1	0.63
60	60XL037	3.820	—	D-1	3/8	1 3/16	7/16	1 1/2	1	0.90
72	72XL037	4.584	—	D-1	3/8	1 3/16	7/16	1 1/2	1	0.50

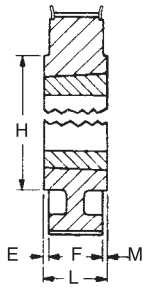
Note: XL Pulleys stocked min. plain bore with 2 setscrews @ 90°. If keyway is used, reduce max. bore by twice keyway depth.
Pulley O.D. = P.D. – .02".

L
3/8" Pitch

Stock Timing Pulleys

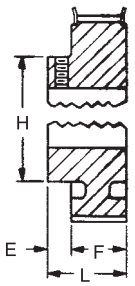
Martin

Type CF



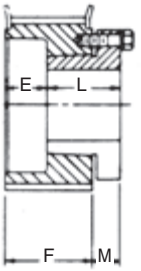
Type C

Type DF



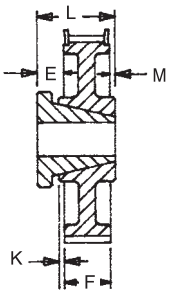
Type D

Type EF



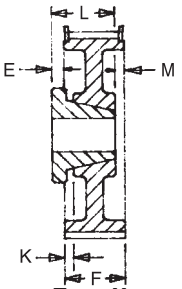
Type E

Type GF

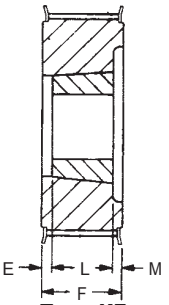


Type G

Type HF



Type H



Type KF

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

L - 3/8" Pitch

L050 For Belts ½" Wide **Minimum Plain Bore** **F = ¾**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
10	10L050	1.194	1 7/16	DF-1	3/8	9/16	3/8	13/16	1 1/8	0.28
12	12L050	1.432	1 43/64	DF-1	3/8	13/16	1/2	1 1/16	1 1/4	0.30
13	13L050	1.552	1 3/4	DF-1	3/8	13/16	1/2	1 1/8	1 1/4	0.35
14	14L050	1.671	1 59/64	DF-1	3/8	7/8	1/2	1 1/8	1 1/4	0.40
15	15L050	1.790	2	DF-1	1/2	15/16	1/2	1 1/8	1 1/4	0.50
16	16L050	1.910	2 5/32	DF-1	1/2	1 1/8	5/8	1 7/16	1 3/8	0.60
17	17L050	2.029	2 9/32	DF-1	1/2	1 1/8	5/8	1 1/2	1 3/8	0.65
18	18L050	2.149	2 25/64	DF-1	1/2	1 3/16	5/8	1 5/8	1 3/8	0.75
19	19L050	2.268	2 3/8	DF-1	1/2	1 3/16	5/8	1 5/8	1 3/8	0.80
20	20L050	2.387	2 5/8	DF-1	1/2	1 1/4	5/8	1 11/16	1 3/8	0.94
21	21L050	2.507	2 3/4	DF-1	1/2	1 5/16	11/16	1 7/8	1 7/16	1.00
22	22L050	2.626	2 7/8	DF-1	1/2	1 1/2	3/4	2	1 1/2	1.10
24	24L050	2.865	3 7/64	DF-1	1/2	1 5/8	3/4	2 1/4	1 1/2	1.60
26	26L050	3.104	3 11/32	DF-1	1/2	1 5/8	3/4	2 1/2	1 1/2	2.30
28	28L050	3.342	3 37/64	DF-1	1/2	1 5/8	3/4	2 3/4	1 1/2	2.50
30	30L050	3.581	3 53/64	DF-1	1/2	1 5/8	3/4	2 3/8	1 1/2	2.70
32	32L050	3.820	4 1/16	DF-1	1/2	1 7/8	7/8	3 1/16	1 5/8	3.00

L Pulleys 10 - 16 teeth min. plain bore stocked with 1 set screw. If keyway is used, reduced max. bore by twice keyway depth.
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

L - 3/8" Pitch

L050 For Belts ½" Wide (3/8" Pitch) **QD Type** **F = ¾**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	K	L	M	
18	18L050JA	2.149	2 25/64	EF-1*	JA	½-1¼	3/16	—	1 1/16	½	0.40
20	20L050JA	2.387	2 5/8	EF-1*	JA	½-1¼	3/16	—	1 1/16	½	0.50
22	22L050JA	2.626	2 7/8	EF-1*	JA	½-1¼	3/16	—	1 1/16	½	0.70
24	24L050SH	2.865	3 7/64	GF-1 +	SH	½-1 11/16	9/16	—	1 5/16	0	0.70
26	26L050SH	3.104	3 11/32	GF-1 +	SH	½-1 11/16	9/16	0	1 5/16	0	1.00
28	28L050SH	3.342	3 37/64	GF-1 +	SH	½-1 11/16	9/16	0	1 5/16	0	1.10
30	30L050SDS	3.581	3 53/64	GF-1	SDS	½-2	5/8	0	1 3/8	0	1.10
32	32L050SDS	3.820	4 1/16	GF-1	SDS	½-2	5/8	0	1 3/8	0	1.40
36	36L050SDS	4.297	4 17/32	GF-1	SDS	½-2	5/8	0	1 3/8	0	2.00
40	40L050SDS	4.775	5 1/64	GF-1	SDS	½-2	5/8	0	1 3/8	0	2.80
44	44L050SDS	5.252	5 31/64	GF-1	SDS	½-2	5/8	0	1 3/8	0	3.60
48	48L050SDS	5.730	6 1/64	GF-1	SDS	½-2	5/8	0	1 3/8	0	4.40
60	60L050SD	7.162	—	G-3	SD	½-2	7/8	1/4	1 13/16	1/4	4.20
72	72L050SD	8.594	—	G-3	SD	½-2	7/8	1/4	1 13/16	1/4	6.60
84	84L050SD	10.027	—	G-3	SD	½-2	7/8	1/4	1 13/16	1/4	5.80

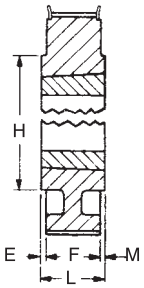
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
*Reverse mount drilled only
+Bushing Projects 1/16 on Small End.

L050 Taper Bushed on Page K7

Martin Stock Timing Pulleys

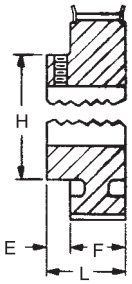
L
3/8" Pitch

Type CF



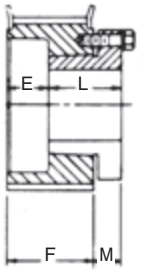
Type C

Type DF



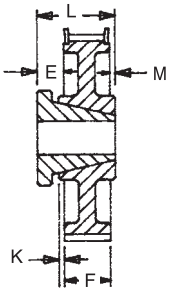
Type D

Type EF



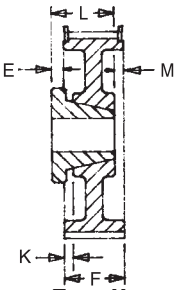
Type E

Type GF

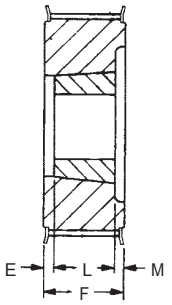


Type G

Type HF



Type H



Type KF

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

L - 3/8" Pitch

L050 For Belts 1/2" Wide (3/8" Pitch) **Taper Bushed Type** **F = 3/4**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	H	L	M	Wt. Less Bush.
18	TB18L050	2.149	2 25/64	CF-1	1008	1/2-1	1/8	1 5/8	7/8	—	0.45
20	TB20L050	2.387	2 3/8	CF-1	1008	1/2-1	1/8	1 11/16	7/8	—	0.68
22	TB22L050	2.626	2 7/8	CF-1	1008	1/2-1	1/8	2	7/8	—	0.90
24	TB24L050	2.865	3 7/64	CF-1	1210	1/2-1 1/4	1/4	2 1/4	1	—	1.00
26	TB26L050	3.104	3 11/32	CF-1	1210	1/2-1 1/4	1/4	2 1/2	1	—	1.20
28	TB28L050	3.342	3 37/64	CF-1	1610	1/2-1 1/4	1/4	2 3/4	1	—	1.40
30	TB30L050	3.581	3 53/64	CF-1	1610	1/2-1 5/8	1/4	2 7/8	1	—	1.50
32	TB32L050	3.820	4 1/16	CF-1	1610	1/2-1 5/8	1/4	3 1/16	1	—	1.90
40	TB40L050	4.775	5 1/64	CF-1	2012	1/2-2	1/2	3 11/16	1 1/4	—	2.40
48	TB48L050	5.730	6 1/64	CF-1	2012	1/2-2	1/2	3 11/16	1 1/4	—	3.20
60	TB60L050	7.162	—	C-2	2012	1/2-2	1/4	4 3/8	1 1/4	1/4	4.90

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

L - 3/8" Pitch

L075 For Belts 3/4" Wide (3/8" Pitch) **Minimum Plain Bore** **F = 1**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore Stk.	Bore Max.	Dimensions E	H	L	Wt.
12	12L075	1.432	1 43/64	DF-1	3/8	13/16	1/2	1 1/16	1 1/2	0.40
14	14L075	1.671	1 59/64	DF-1	3/8	7/8	1/2	1 1/8	1 1/2	0.50
16	16L075	1.910	2 5/32	DF-1	1/2	1 1/8	5/8	1 1/16	1 5/8	0.70
18	18L075	2.149	2 25/64	DF-1	1/2	1 3/16	5/8	1 5/8	1 5/8	0.90
20	20L075	2.387	2 3/8	DF-1	1/2	1 1/4	5/8	1 11/16	1 5/8	1.50
22	22L075	2.626	2 7/8	DF-1	5/8	1 1/2	3/4	2	1 3/4	1.80
24	24L075	2.865	3 7/64	DF-1	5/8	1 5/8	3/4	2 1/4	1 3/4	2.10
26	26L075	3.104	3 11/32	DF-1	5/8	1 5/8	7/8	2 1/2	1 7/8	2.80
28	28L075	3.342	3 37/64	DF-1	5/8	1 7/8	1	2 3/4	2	3.10
30	30L075	3.581	3 53/64	DF-1	5/8	1 7/8	1	2 7/8	2	3.40
32	32L075	3.820	4 1/16	DF-1	5/8	1 7/8	1	3 1/16	2	3.70

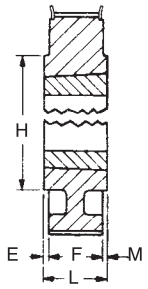
Dimensions in inches. Weight in pounds.
Pulley O.D. = P.D. – .03"
L Pulleys 12 - 16 teeth min. plain bore stocked with 1-SS. If keyway is used, reduce max. bore by twice keyway depth.

L
3/8" Pitch

Stock Timing Pulleys

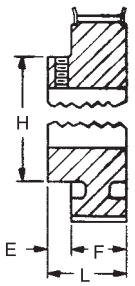
Martin

Type CF



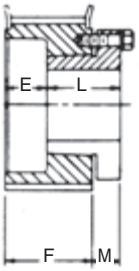
Type C

Type DF



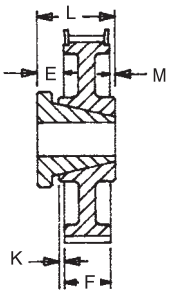
Type D

Type EF



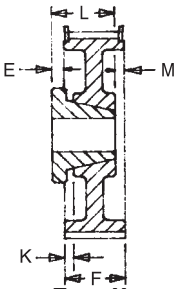
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Type GF

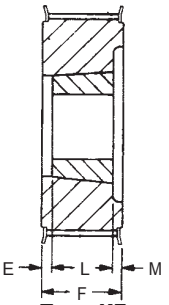


Type G

Type HF



Type H



Type KF

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

L - 3/8" Pitch

L075 For Belts 3/4" Wide (3/8" Pitch) **QD Type** **F = 1**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
18	18L075JA	2.149	2 25/64	EF-1*	JA	1/2 - 1 1/4	7/16	—	1 1/16	1/2	0.50
20	20L075JA	2.387	2 5/8	EF-1*	JA	1/2 - 1 1/4	7/16	—	1 1/16	1/2	0.70
22	22L075JA	2.626	2 7/8	EF-1*	JA	1/2 - 1 1/4	7/16	—	1 1/16	1/2	0.80
24	24L075SH	2.865	3 7/64	EF-1*	SH	1/2 - 1 11/16	3/16	—	1 5/16	9/16	0.80
26	26L075SH	3.104	3 11/32	EF-1*	SH	1/2 - 1 11/16	3/16	—	1 5/16	9/16	1.10
28	28L075SH	3.342	3 37/64	EF-1*	SH	1/2 - 1 11/16	3/16	—	1 5/16	9/16	1.30
30	30L075SDS	3.581	3 53/64	EF-1*	SDS	1/2 - 2	1/4	—	1 3/8	5/8	1.50
32	32L075SDS	3.820	4 1/16	EF-1*	SDS	1/2 - 2	1/4	—	1 3/8	5/8	1.70
36	36L075SDS	4.297	4 17/32	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	2.30
40	40L075SDS	4.775	5 1/64	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	3.10
44	44L075SDS	5.252	5 31/64	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	4.00
48	48L075SDS	5.730	6 1/64	HF-1	SDS	1/2 - 2	3/8	1/4	1 3/8	0	4.60
60	60L075SD	7.162	—	G-3	SD	1/2 - 2	11/16	1/8	1 13/16	1/8	4.70
72	72L075SD	8.594	—	G-3	SD	1/2 - 2	11/16	1/8	1 13/16	1/8	6.50
84	84L075SD	10.027	—	G-3	SD	1/2 - 2	11/16	1/8	1 13/16	1/8	6.30

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
*Reverse mount only

L - 3/8" Pitch

L075 For Belts 3/4" Wide (3/8" Pitch) **Taper Bushed Type** **F = 1**

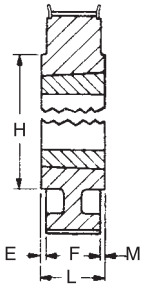
No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	H	L	M	Wt. Less Bush.
18	TB18L075	2.149	2-25/64	KF-1	1008	1/2 - 1	1/8	—	7/8	—	0.50
20	TB20L075	2.387	2-5/8	KF-1	1008	1/2 - 1	1/8	—	7/8	—	0.70
22	TB22L075	2.626	2-7/8	KF-1	1008	1/2 - 1	1/8	—	7/8	—	1.10
24	TB24L075	2.865	3-7/64	KF-1	1210	1/2 - 1-1/4	—	—	1	—	0.90
26	TB26L075	3.104	3-11/32	KF-1	1210	1/2 - 1-1/4	—	—	1	—	1.30
28	TB28L075	3.342	3-37/64	KF-1	1610	1/2 - 1-5/8	—	—	1	—	1.30
30	TB30L075	3.581	3-53/64	KF-1	1610	1/2 - 1-5/8	—	—	1	—	1.60
32	TB32L075	3.820	4-1/16	KF-1	1610	1/2 - 1-5/8	—	—	1	—	1.80
40	TB40L075	4.775	5-1/64	CF-1	2012	1/2 - 2	1/4	3-15/16	1-1/4	—	3.60
48	TB48L075	5.730	6-1/64	CF-1	2012	1/2 - 2	1/4	3-15/16	1-1/4	—	5.40
60	TB60L075	7.162	—	C-1	2012	1/2 - 2	1/8	4-3/8	1-1/4	1/8	7.90

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

Martin Stock Timing Pulleys

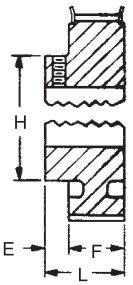
L
3/8" Pitch

Type CF



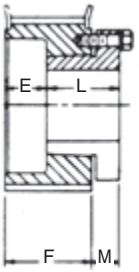
Type C

Type DF



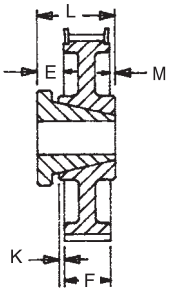
Type D

Type EF



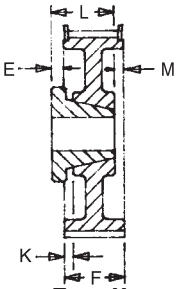
Type E

Type GF

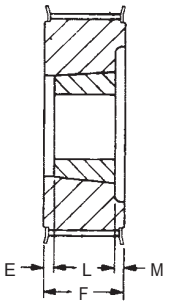


Type G

Type HF



Type H



Type KF

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

L - 3/8" Pitch

L100 For Belts 1" Wide (3/8" Pitch) **Minimum Plain Bore** **F = 1¼**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
14	14L100	1.671	1 59/64	DF-1	3/8	7/8	1/2	1 1/8	1 3/4	0.60
16	16L100	1.910	2 5/32	DF-1	1/2	1 1/8	5/8	1 7/16	1 7/8	0.80
17	17L100	2.029	2 9/32	DF-1	1/2	1 1/8	5/8	1 1/2	1 7/8	1.00
18	18L100	2.149	2 25/64	DF-1	1/2	1 3/16	5/8	1 5/8	1 7/8	1.10
19	19L100	2.268	2 3/8	DF-1	1/2	1 3/16	5/8	1 5/8	1 7/8	1.40
20	20L100	2.387	2 5/8	DF-1	1/2	1 3/16	5/8	1 11/16	1 7/8	1.75
21	21L100	2.507	2 3/4	DF-1	5/8	1 5/16	11/16	1 7/8	1 7/8	1.80
22	22L100	2.626	2 7/8	DF-1	5/8	1 1/2	3/4	2	2	2.00
24	24L100	2.865	3 3/64	DF-1	5/8	1 5/8	3/4	2 1/4	2	2.50
26	26L100	3.104	3 11/32	DF-1	5/8	1 5/8	7/8	2 1/2	2 1/8	3.30
28	28L100	3.342	3 37/64	DF-1	5/8	1 7/8	1	2 3/4	2 1/4	3.60
30	30L100	3.581	3 53/64	DF-1	5/8	1 7/8	1	2 7/8	2 1/4	4.00
32	32L100	3.820	4 1/16	DF-1	5/8	1 7/8	1	3 1/16	2 1/4	4.40

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
L Pulleys 14 - 16 teeth min. plain bore stocked with 1-S.S. If keyway is used, reduce max. bore by twice keyway depth.

L - 3/8" Pitch

L100 For Belts 1" Wide (3/8" Pitch) **QD Type** **F = 1¼**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	K	L	M	
18	18L100JA	2.149	2 25/64	EF-1*	JA	1/2 - 1 1/4	11/16	—	1 1/16	1/2	0.70
20	20L100JA	2.387	2 5/8	EF-1*	JA	1/2 - 1 1/4	11/16	—	1 1/16	1/2	0.90
22	22L100JA	2.626	2 7/8	EF-1*	JA	1/2 - 1 1/4	11/16	—	1 1/16	1/2	1.00
24	24L100SH	2.865	3 3/64	EF-1*	SH	1/2 -1 11/16	7/16	—	1 5/16	9/16	1.00
26	26L100SH	3.104	3 11/32	EF-1*	SH	1/2 -1 11/16	7/16	—	1 5/16	9/16	1.30
28	28L100SH	3.342	3 37/64	EF-1*	SH	1/2 -1 11/16	7/16	—	1 5/16	9/16	1.70
30	30L100SDS	3.581	3 53/64	EF-1*	SDS	1/2 -2	1/2	—	1 3/8	5/8	2.00
32	32L100SDS	3.820	4 1/16	EF-1*	SDS	1/2 -2	1/2	—	1 3/8	5/8	2.10
36	36L100SDS	4.297	4 17/32	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	2.60
40	40L100SDS	4.775	5 1/64	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	3.40
44	44L100SDS	5.252	5 31/64	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	4.20
48	48L100SDS	5.730	6 1/64	HF-1	SDS	1/2 -2	1/8	1/2	1 3/8	0	5.10
60	60L100SD	7.162	—	G-3	SD	1/2 -2	5/8	0	1 13/16	0	6.00
72	72L100SD	8.594	—	G-3	SD	1/2 -2	5/8	0	1 13/16	0	8.00
84	84L100SD	10.027	—	G-3	SD	1/2 -2	5/8	0	1 13/16	0	9.20

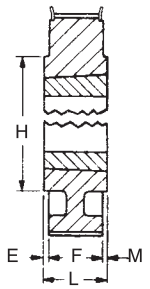
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
*Reverse mount only

L
⅜" Pitch

Stock Timing Pulleys

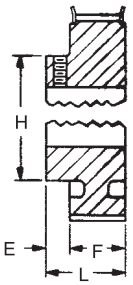
Martin

Type CF



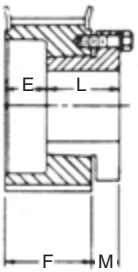
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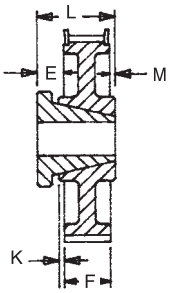
Type D

Type EF



Type E

Type GF



Type G

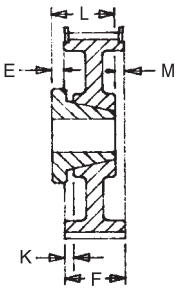
Dash 1 = Solid Style

Dash 2 = Web Style

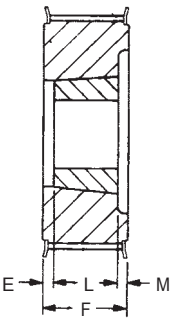
Dash 3 = Arm/Spoke Style

"F" in type description indicates flanged.

Type HF



Type H



Type KF

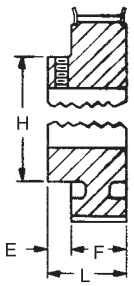
L - ⅜" Pitch

L100 For Belts 1" Wide (⅜" Pitch) **Taper Bushed Type** **F = 1¼**

No. Teeth	Part Number	Pitch Diameter	Max FL.O.D.	Type	Bush	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
18	TB18L100	2.149	2 25/64	KF-1	1008	½ - 1	⅜	—	⅞	—	0.70
20	TB20L100	2.387	2⅝	KF-1	1008	½ - 1	⅜	—	⅞	—	1.00
22	TB22L100	2.626	2⅞	KF-1	1008	½ - 1	⅜	—	⅞	—	1.30
24	TB24L100	2.865	3 7/64	KF-1	1210	½ -1¼	¼	—	1	—	1.30
26	TB26L100	3.104	3 11/32	KF-1	1210	½ -1¼	¼	—	1	—	1.70
28	TB28L100	3.342	3 37/64	KF-1	1610	½ -1⅝	¼	—	1	—	1.70
30	TB30L100	3.581	3 59/64	KF-1	1610	½ -1⅝	¼	—	1	—	2.20
32	TB32L100	3.820	4 1/16	KF-1	1610	½ -1⅝	¼	—	1	—	2.70
40	TB40L100	4.775	5 1/64	KF-1	2012	½ -2	1/16	—	1¼	—	3.60
48	TB48L100	5.730	6 1/64	KF-1	2012	½ -2	1/16	—	1¼	—	5.10
60	TB60L100	7.162	—	C-2	2012	½ -2	—	—	1¼	—	6.00

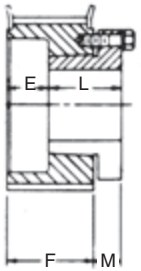
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

Type DF



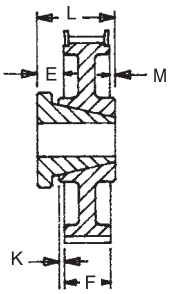
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Type EF



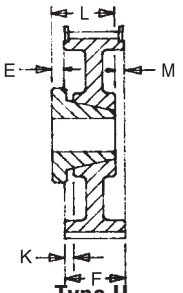
Type E

Type GF



Type G

Type HF



Type H

H — ½" Pitch

H100 For Belts ¾" and 1" Wide (½" Pitch) **Minimum Plain Bore** **F = 1 5/16**

No. Teeth	Part Number	Pitch Diameter	Max FL. O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
14	14H100	2.228	2 31/64	DF-1	5/8	1	5/8	1 1/2	1 15/16	1.4
16	16H100	2.546	2 51/64	DF-1	5/8	1 1/4	11/16	2	2	2.0
18	18H100	2.865	3 7/64	DF-1	5/8	1 1/2	11/16	2 1/4	2	2.8
20	20H100	3.183	3 7/16	DF-1	5/8	1 5/8	7/8	2 1/2	2 3/16	3.4
21	21H100	3.342	3 9/16	DF-1	3/4	1 11/16	1	2 5/8	2 1/4	3.8
22	22H100	3.501	3 3/4	DF-1	3/4	1 7/8	1	2 7/8	2 5/16	4.3
24	24H100	3.820	4 1/64	DF-1	3/4	2 1/8	1	3 1/8	2 5/16	5.3
26	26H100	4.138	4 25/64	DF-1	3/4	2 1/2	1-1/8	3 1/2	2 7/16	6.7
28	28H100	4.456	4 45/64	DF-1	3/4	2 5/8	1-1/8	3 5/8	2 7/16	8.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

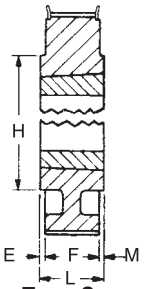
H — ½" Pitch

H100 For Belts ¾" and 1" Wide (½" Pitch) **QD Type** **F = 1 5/16**

No. Teeth	Part Number	Pitch Diameter	Max FL. O.D.	Type	Bush	Bore Range	Dimensions					Wt. Less Bush.
							E	H	K	L	M	
14	14H100JA	2.228	2 31/64	EF-1*	JA	1/2 -1 1/4	3/4	—	—	1 1/16	1/2	1.0
16	16H100JA	2.546	2 51/64	EF-1*	JA	1/2 -1 1/4	3/4	—	—	1 1/16	1/2	1.5
18	18H100SH	2.865	3 7/64	EF-1*	SH	1/2 -1 11/16	9/16	—	—	1 5/16	9/16	1.2
20	20H100SH	3.183	3 7/16	EF-1*	SH	1/2 -1 11/16	9/16	—	—	1 5/16	9/16	1.2
22	22H100SDS	3.501	3 3/4	EF-1*	SDS	1/2 -2	9/16	—	—	1 3/8	5/8	1.4
24	24H100SDS	3.820	4 1/64	EF-1*	SDS	1/2 -2	9/16	—	—	1 3/8	5/8	1.7
26	26H100SDS	4.138	4 25/64	HF-1	SDS	1/2 -2	1/16	—	9/16	1 3/8	—	2.0
28	28H100SDS	4.456	4 45/64	HF-1	SDS	1/2 -2	1/16	—	9/16	1 3/8	—	2.6
30	30H100SD	4.775	5 1/64	GF-1	SD	1/2 -2	5/8	—	—	1 13/16	—	3.0
32	32H100SK	5.093	5 21/64	GF-1	SK	1/2 -2 5/8	11/16	—	—	1 15/16	—	4.9
36	36H100SK	5.730	5 61/64	GF-1	SK	1/2 -2 5/8	11/16	—	—	1 15/16	—	5.6
40	40H100SK	6.366	6 37/64	GF-1	SK	1/2 -2 5/8	11/16	—	—	1 15/16	—	8.2
44	44H100SK	7.003	7 1/4	GF-1	SK	1/2 -2 5/8	11/16	—	—	1 15/16	—	10.0
48	48H100SK	7.639	8 1/64	GF-2	SK	1/2 -2 5/8	11/16	—	—	1 15/16	—	12.5
60	60H100SF	9.549	—	H-2	SF	1/2 -2 15/16	11/16	—	—	2 1/16	—	10.9
72	72H100SF	11.459	—	H-3	SF	1/2 -2 15/16	11/16	—	—	2 1/16	—	14.0
84	84H100SF	13.369	—	H-3	SF	1/2 -2 15/16	11/16	5 1/8	—	2 1/16	—	20.0
96	96H100SF	15.279	—	H-3	SF	1/2 -2 15/16	11/16	5 1/8	—	2 1/16	—	27.0
120	120H100SF	19.099	—	H-3	SF	1/2 -2 15/16	11/16	5 1/8	—	2 1/16	—	38.0

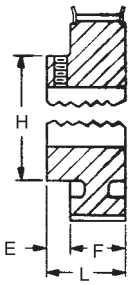
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"
*Reverse mount only

Type CF



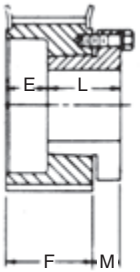
Type C

Type DF



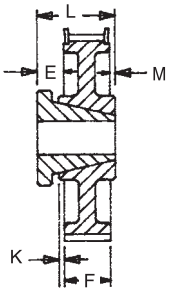
Type D

Type EF



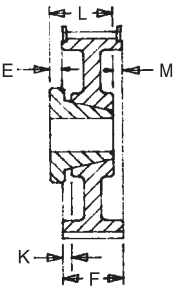
Type E

Type GF



Type G

Type HF



Type H

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

"F" in description indicates flanged.

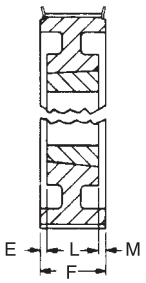
H — ½" Pitch

H100 For Belts ¾" and 1" Wide (½" Pitch) **Taper Bushed Type** **F = 1 5/16**

No. Teeth	Part Number	Pitch Diameter	Max FL. O.D.	Type	Bush	Bore Range	Dimensions E	Dimensions H	Dimensions L	Dimensions M	Wt. Less Bush.
14	TB14H100	2.228	2 31/64	KF-1	1008	½ - 1	7/16	—	⅞	—	0.80
16	TB16H100	2.546	2 51/64	KF-1	1008	½ - 1	7/16	—	⅞	—	1.30
18	TB18H100	2.865	3 7/64	KF-1	1210	½ - 1¼	5/16	—	1	—	1.20
20	TB20H100	3.183	3 7/16	KF-1	1210	½ - 1¼	5/16	—	1	—	1.70
22	TB22H100	3.501	3¾	KF-1	1610	½ - 1⅝	5/16	—	1	—	1.80
24	TB24H100	3.820	4 1/64	KF-1	1610	½ - 1⅝	5/16	—	1	—	2.30
26	TB26H100	4.138	4 25/64	KF-1	2012	½ - 2	1/16	—	1¼	—	2.60
28	TB28H100	4.456	4 45/64	KF-1	2012	½ - 2	1/16	—	1¼	—	2.80
30	TB30H100	4.775	5 1/64	KF-1	2012	½ - 2	1/16	—	1¼	—	4.20
32	TB32H100	5.093	5 21/64	CF-1	2517	½ - 2½	7/16	4 7/16	1¾	—	4.30
40	TB40H100	6.366	6 37/64	CF-1	2517	½ - 2½	7/16	4 7/16	1¾	—	7.80
48	TB48H100	7.639	8 1/64	CF-1	2517	½ - 2½	7/16	4 7/16	1¾	—	12.10
60	TB60H100	9.549	—	C-2	3020	⅞ - 3	11/32	6¼	2	11/32	10.30

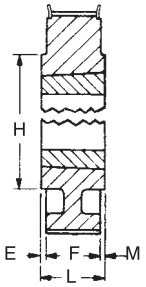
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

Type AF



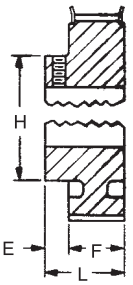
Type A

Type CF



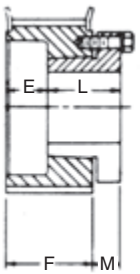
Type C

Type DF



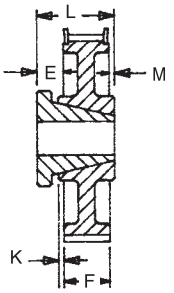
Type D

Type EF



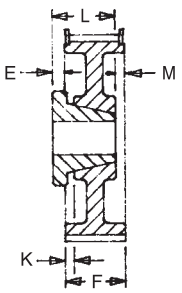
Type E

Type GF

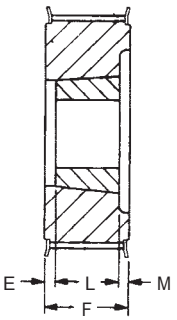


Type G

Type HF



Type H



Type KF

Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

"F" in type description indicates flanged.

H — ½" Pitch

H150 For Belts 1½" Wide (½" Pitch) **Minimum Plain Bore** **F = 1 13/16**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
14	14H150	2.228	2 31/64	DF-1	¾	1	⅝	1½	2 7/16	1.8
16	16H150	2.546	2 5/64	DF-1	¾	1¼	¾	2	2 9/16	2.5
18	18H150	2.865	3 7/64	DF-1	¾	1½	¾	2¼	2 9/16	3.3
19	19H150	3.024	3¼	DF-1	¾	1 9/16	⅞	2¼	2⅝	3.9
20	20H150	3.183	3 7/16	DF-1	¾	1⅝	⅞	2½	2 11/16	4.3
21	21H150	3.342	3 9/16	DF-1	¾	1 11/16	15/16	2½	2¾	5.3
22	22H150	3.501	3¾	DF-1	¾	1⅞	1	2⅞	2 13/16	5.4
24	24H150	3.820	4 1/16	DF-1	¾	2⅛	1	3⅛	2 13/16	6.5
26	26H150	4.138	4 25/32	DF-1	¾	2½	1	3½	2 13/16	8.4

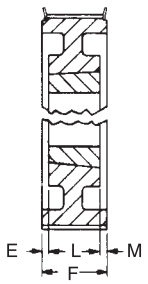
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

H
½" Pitch

Stock Timing Pulleys

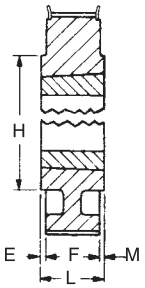
Martin

Type AF



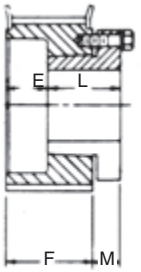
Type A

Type CF



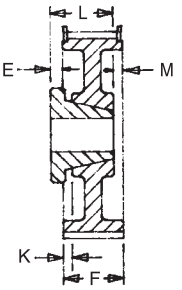
Type C

Type E



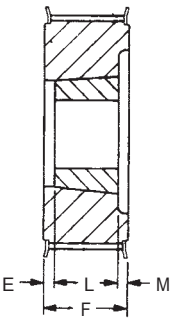
Type EF

Type HF



Type H

Type KF



Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

"F" in type description indicates flanged.

H — ½" Pitch

H150 For Belts 1½" Wide (½" Pitch) **QD Type** **F = 1 13/16**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush.	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
14	14H150JA	2.228	2 31/64	EF-1*	JA	½ - 1¼	1¼	—	1 1/16	½	1.5
16	16H150JA	2.546	2 51/64	EF-1*	JA	½ - 1¼	1¼	—	1 1/16	½	2.0
18	18H150SH	2.865	3 7/64	EF-1*	SH	½ - 1 11/16	1	—	1 5/16	9/16	1.3
20	20H150SH	3.183	3 7/16	EF-1*	SH	½ - 1 11/16	1	—	1 5/16	9/16	1.8
22	22H150SD	3.501	3¾	EF-1*	SD	½ - 2	9/16	—	1 13/16	5/8	2.0
24	24H150SD	3.820	4 1/16	EF-1*	SD	½ - 2	9/16	—	1 13/16	5/8	2.6
26	26H150SD	4.138	4 25/32	HF-1	SD	½ - 2	1/16	9/16	1 13/16	1/16	3.0
28	28H150SD	4.456	4 45/64	HF-1	SD	½ - 2	1/16	9/16	1 13/16	1/16	4.0
30	30H150SD	4.775	5 1/64	HF-1	SD	½ - 2	1/16	9/16	1 13/16	1/16	4.9
32	32H150SK	5.093	5 21/64	HF-1	SK	½ - 2⅝	⅛	9/16	1 15/16	0	5.8
36	36H150SK	5.730	5 61/64	HF-1	SK	½ - 2⅝	⅛	9/16	1 15/16	0	7.0
40	40H150SK	6.366	6 37/64	HF-1	SK	½ - 2⅝	⅛	9/16	1 15/16	0	9.2
44	44H150SK	7.003	7¼	HF-1	SK	½ - 2⅝	⅛	9/16	1 15/16	0	11.0
48	48H150SK	7.639	8 1/64	HF-2	SK	½ - 2⅝	⅛	9/16	1 15/16	0	13.7
60	60H150SF	9.549	—	H-2	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	12.5
72	72H150SF	11.459	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	17.0
84	84H150SF	13.369	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	21.5
96	96H150SF	15.279	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	31.0
120	120H150SF	19.099	—	H-3	SF	½ - 2 15/16	13/32	9/32	2 1/16	9/32	40.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"
*Reverse mount only

H — ½" Pitch

H150 For Belts 1½" Wide (½" Pitch) **Taper Bushed Type** **F = 1 13/16**

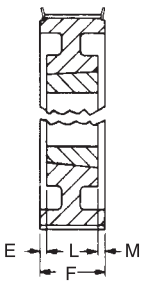
No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions E	H	K	L	M	Wt. Less Bush.
14	TB14H150	2.228	2 31/64	KF-1	1008	½ - 1	15/32	—	—	7/8	15/32	1.0
16	TB16H150	2.546	2 51/64	KF-1	1008	½ - 1	15/32	—	—	7/8	15/32	1.5
18	TB18H150	2.865	3 7/64	KF-1	1215	½ - 1¼	5/16	—	—	1½	—	1.6
20	TB20H150	3.183	3 7/16	KF-1	1215	½ - 1¼	5/16	—	—	1½	—	2.2
22	TB22H150	3.501	3¾	KF-1	1615	½ - 1⅝	5/16	—	—	1½	—	2.5
24	TB24H150	3.820	4 1/16	KF-1	2012	½ - 2	9/16	—	—	1¼	—	2.7
26	TB26H150	4.138	4 25/32	KF-1	2012	½ - 2	9/16	—	—	1¼	—	3.2
28	TB28H150	4.456	4 45/64	KF-1	2012	½ - 2	9/16	—	—	1¼	—	4.1
30	TB30H150	4.775	5 1/64	KF-1	2012	½ - 2	9/16	—	—	1¼	—	5.1
32	TB32H150	5.093	5 21/64	KF-1	2517	½ - 2½	1/16	—	—	1¾	—	5.6
40	TB40H150	6.366	6 37/64	KF-1	2517	½ - 2½	1/16	—	—	1¾	—	8.6
48	TB48H150	7.639	8 1/64	AF-1	2517	½ - 2½	—	—	1/16	1¾	1/16	13.6
60	TB60H150	9.549	—	C-2	3020	⅞ - 3	3/32	6-¼	—	2	3/32	12.3

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

Martin Stock Timing Pulleys

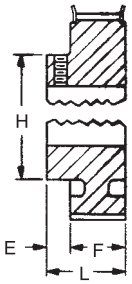
H
½" Pitch

Type AF



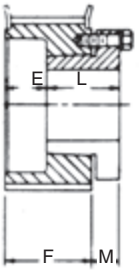
Type A

Type DF



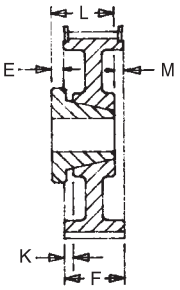
Type D

Type E



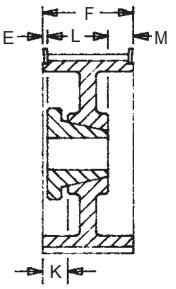
Type EF

Type HF

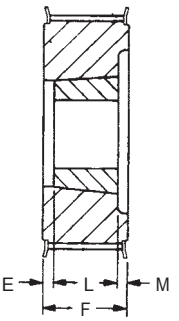


Type H

Type JF



Type J



Type KF

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

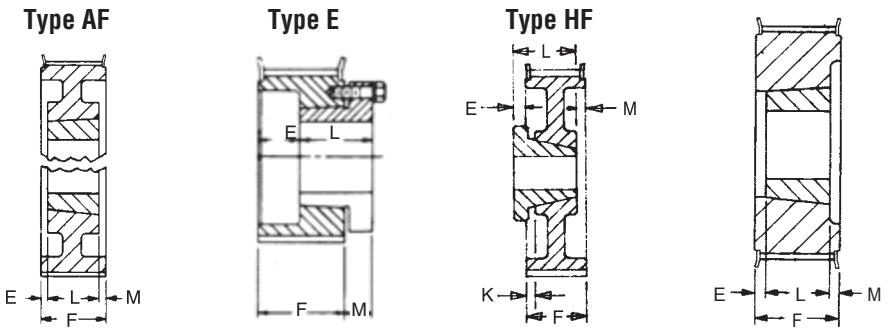
"F" in type description indicates flanged.

H — ½" Pitch

H200 For Belts 2" Wide (½" Pitch) **Minimum Plain Bore** **F = 2-11/32**

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
14	14H200	2.228	2 3/8	DF-1	3/4	1	5/8	1 1/2	2 31/32	2.2
16	16H200	2.546	2 51/64	DF-1	3/4	1 1/4	3/4	2	3 3/32	3.1
18	18H200	2.865	3 7/64	DF-1	3/4	1 1/2	3/4	2	3 3/32	3.7
19	19H200	3.024	3 1/4	DF-1	3/4	1 9/16	7/8	2 1/4	3 7/32	3.9
20	20H200	3.183	3 7/16	DF-1	3/4	1 5/8	7/8	2 1/2	3 7/32	4.9
22	22H200	3.501	3 3/4	DF-1	1	1 7/8	1	2 7/8	3 11/32	6.3
24	24H200	3.820	4 1/16	DF-1	1	2 1/8	1	3 1/8	3 11/32	7.5
26	26H200	4.138	4 25/32	DF-1	1	2 1/2	1-1/8	3 1/2	3 15/32	9.5

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"



Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

"F" in type description indicates flanged.

H — ½" Pitch

H200 For Belts 2" Wide (½" Pitch) **QD Type** **F = 2-11/32**

No. Teeth	Part Number	Pitch Diameter	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions E	K	L	M	Wt. Less Bush.
16	16H200JA	2.546	2 51/64	EF-1*	JA	½ - 1¼	1 25/32	—	1 1/16	½	2.6
18	18H200SH	2.865	3 7/64	EF-1*	SH	½ - 1 11/16	1 17/32	—	1 5/16	9/16	1.6
20	20H200SH	3.183	3 7/16	EF-1*	SH	½ - 1 11/16	1 17/32	—	1 5/16	9/16	2.2
22	22H200SD	3.501	3¾	EF-1*	SD	½ - 2	1 3/32	—	1 13/16	5/8	2.5
24	24H200SD	3.820	4 1/16	EF-1*	SD	½ - 2	1 3/32	—	1 13/16	5/8	3.0
26	26H200SD	4.138	4 25/32	HF-1	SD	½ - 2	5/64	35/64	1 13/16	35/64	3.9
28	28H200SD	4.456	4 45/64	HF-1	SD	½ - 2	5/64	35/64	1 13/16	35/64	4.7
30	30H200SD	4.775	5 1/64	HF-1	SD	½ - 2	5/64	35/64	1 13/16	35/64	5.7
32	32H200SK	5.093	5 21/64	HF-1	SK	½ - 2⅝	9/64	35/64	1 15/16	35/64	6.7
36	36H200SK	5.730	5 61/64	HF-1	SK	½ - 2⅝	9/64	35/64	1 15/16	35/64	8.0
40	40H200SK	6.366	6 37/64	HF-1	SK	½ - 2⅝	9/64	35/64	1 15/16	35/64	10.2
44	44H200SK	7.003	7¼	HF-1	SK	½ - 2⅝	9/64	35/64	1 15/16	35/64	12.5
48	48H200SF	7.639	8 1/64	HF-2	SF	½ - 2 15/16	9/64	35/64	2 1/16	35/64	14.1
60	60H200SF	9.549	—	H-2	SF	½ - 2 15/16	9/64	35/64	2 1/16	35/64	14.6
72	72H200SF	11.459	—	H-2	SF	½ - 2 15/16	9/64	35/64	2 1/16	35/64	21.0
84	84H200SF	13.369	—	H-3	SF	½ - 2 15/16	9/64	35/64	2 5/16	35/64	23.0
96	96H200E	15.279	—	H-3	E	⅞ - 3½	33/64	23/64	2⅝	23/64	34.0
120	120H200E	19.099	—	H-3	E	⅞ - 3½	33/64	23/64	2⅝	23/64	42.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"
*Reverse mount only

H — ½" Pitch

H200 For Belts 2" Wide (½" Pitch) **Taper Bushed Type** **F = 2 11/32**

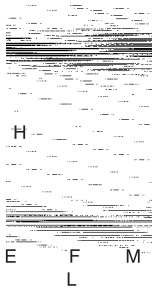
No. Teeth	Part Number	Pitch Diameter	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions E	L	M	Wt. Less Bush.
16	TB16H200	2.546	2 51/64	KF-1	1008	½ - 1	¾	⅞	23/32	1.9
18	TB18H200	2.865	3 7/64	KF-1	1215	½ - 1¼	7/16	1½	13/32	1.8
20	TB20H200	3.183	3 7/16	KF-1	1215	½ - 1¼	27/64	1½	27/64	2.6
22	TB22H200	3.501	3¾	KF-1	1615	½ - 1⅜	27/64	1½	27/64	2.8
24	TB24H200	3.820	4 1/16	KF-1	2012	½ - 2	35/64	1¼	35/64	2.8
26	TB26H200	4.138	4 25/32	KF-1	2012	½ - 2	35/64	1¼	35/64	3.6
28	TB28H200	4.456	4 45/64	KF-1	2012	½ - 2	35/64	1¼	35/64	5.1
30	TB30H200	4.775	5 1/64	KF-1	2012	½ - 2	1 3/32	1¼	—	7.0
32	TB32H200	5.093	5 21/64	KF-1	2517	½ - 2½	19/32	1¾	—	8.5
40	TB40H200	6.366	6 37/64	KF-1	2517	½ - 2½	19/32	1¾	—	9.9
48	TB48H200	7.639	8 1/64	KF-1	3020	⅞ - 3	11/32	2	—	14.3
60	TB60H200	9.549	—	A-2	3020	⅞ - 3	11/64	2	11/64	15.3

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

Martin Stock Timing Pulleys

H
½" Pitch

Type CF



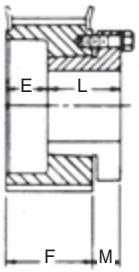
Type C

Type DF



Type D

Type EF



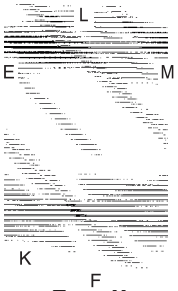
Type E

Type GF

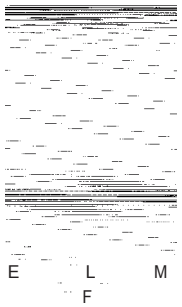


Type G

Type HF



Type H



Type KF

Dash 1 = Solid Style **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

H - ½" Pitch

H300 For Belts 3" Wide (½" Pitch) **Minimum Plain Bore** **F = 3-⅜**

No. Teeth	Part Number	Pitch Diameter	Max. FL. O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
16	16H300	2.546	2 51/64	DF-1	¾	1¼	¾	2	4⅛	4.2

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

H - ½" Pitch

H300 For Belts 3" Wide (½" Pitch) **QD Type** **F = 3-⅜**

No. Teeth	Part Number	Pitch Diameter	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	K	L	M	
22	22H300SD	3.501	3¾	EF-1*	SD	½ - 2	2⅛	—	1 13/16	⅝	4.1
24	24H300SD	3.820	4 1/16	EF-1*	SD	½ - 2	2⅛	—	1 13/16	⅝	4.1
26	26H300SD	4.138	4 25/64	JF-1	SD	½ - 2	7/16	1 1/16	1 13/16	1 1/16	5.0
28	28H300SD	4.456	4 45/64	JF-1	SD	½ - 2	7/16	1 1/16	1 13/16	1 1/16	6.0
30	30H300SD	4.775	5 1/64	JF-1	SD	½ - 2	7/16	1 1/16	1 13/16	1 1/16	7.2
32	32H300SK	5.093	5 21/64	JF-1	SK	½ - 2⅝	⅜	1 1/16	1 15/16	1 1/16	8.4
36	36H300SK	5.730	5 61/64	JF-1	SK	½ - 2⅝	⅜	1 1/16	1 15/16	1 1/16	10.0
40	40H300SK	6.366	6 37/64	JF-1	SK	½ - 2⅝	⅜	1 1/16	1 15/16	1 1/16	12.2
44	44H300SK	7.003	7¼	JF-1	SK	½ - 2⅝	⅜	1 1/16	1 15/16	1 1/16	15.5
48	48H300SF	7.639	8 1/64	JF-2	SF	½ - 2 15/16	⅜	1 1/16	2 1/16	1 1/16	16.6
60	60H300SF	9.549	—	J-2	SF	½ - 2 15/16	⅜	1 1/16	2 1/16	1 1/16	17.9
72	72H300SF	11.459	—	J-2	SF	½ - 2 15/16	3/16	1 1/16	2 1/16	1 1/16	23.0
84	84H300SF	13.369	—	J-2	SF	½ - 2 15/16	3/16	1 1/16	2 1/16	1 1/16	30.0
96	96H300E	15.279	—	H-3	E	⅞ - 3½	0	⅞	2⅝	⅞	38.0
120	120H300E	19.099	—	H-3	E	⅞ - 3½	0	⅞	2⅝	⅞	51.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"
*Reverse mount only

H - ½" Pitch

H300 For Belts 3" Wide (½" Pitch) **Taper Bushed Type** **F = 3-⅜**

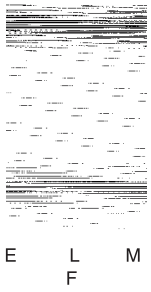
No. Teeth	Part Number	Pitch Diameter	Max. FL. O.D.	Type	Bush	Bore Range	Dimensions			Wt. Less Bush.
							E	L	M	
18	TB18H300	2.865	3 7/64	KF-1	1215	½ - 1¼	15/16	1½	15/16	2.6
20	TB20H300	3.183	3 7/16	KF-1	1215	½ - 1¼	15/16	1½	15/16	3.9
22	TB22H300	3.501	3¾	KF-1	1615	½ - 1⅝	15/16	1½	15/16	4.0
24	TB24H300	3.820	4 1/16	KF-1	2012	½ - 2	1 1/16	1¼	1 1/16	4.3
26	TB26H300	4.138	4 25/64	KF-1	2012	½ - 2	1 1/16	1¼	1 1/16	5.4
28	TB28H300	4.456	4 45/64	KF-1	2012	½ - 2	1 1/16	1¼	1 1/16	6.8
30	TB30H300	4.775	5 1/64	KF-1	2012	½ - 2	1 1/16	1¼	1 1/16	7.5
32	TB32H300	5.093	5 21/64	KF-1	2517	½ - 2½	13/16	1¾	13/16	7.4
40	TB40H300	6.366	6 37/64	KF-1	2517	½ - 2½	13/16	1¾	13/16	12.1
48	TB48H300	7.639	8 1/64	KF-1	3020	⅞ - 3	1 1/16	2	1 1/16	16.3
60	TB60H300	9.549	—	A-2	3020	⅞ - 3	9/16	2	9/16	17.3

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

XH
7/8" Pitch

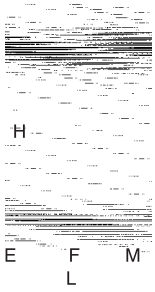
Stock Timing Pulleys

Type AF



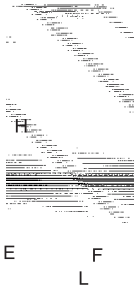
Type A

Type CF



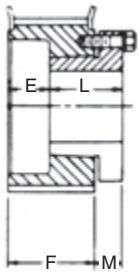
Type C

Type DF



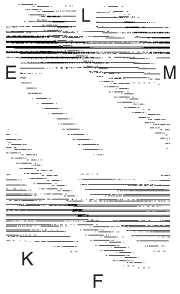
Type D

Type EF



Type E

Type HF



Type H

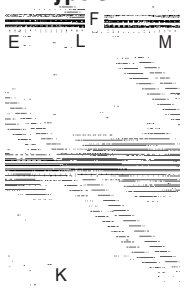
Dash 1 = Solid Style

Dash 2 = Web Style

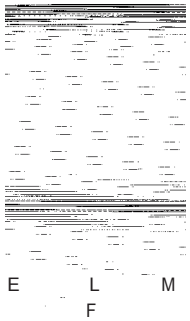
Dash 3 = Arm/Spoke Style

"F" in type description indicates flanged.

Type JF



Type J



Type KF

XH — 7/8 Pitch

XH200 For Belts 2" Wide (7/8" Pitch) **Minimum Plain Bore** **F = 2 9/16**

No. Teeth	Part Number	Pitch Diameter	Max. FL O.D.	Type	Bore		Dimensions			Wt.
					Stk.	Max.	E	H	L	
18	18XH200	5.013	5 37/64	DF-1	1	2 5/8	7/8	3 11/16	3 7/16	12.0
20	20XH200	5.570	6 7/64	DF-1	1	3 1/4	1	4 1/8	3 9/16	16.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .11"

XH — 7/8 Pitch

XH200 For Belts 2" Wide (7/8" Pitch) **Taper Bushed Type** **F = 2 9/16**

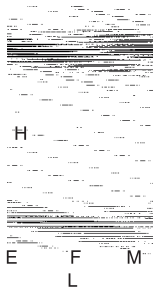
No. Teeth	Part Number	Pitch Diameter	Max. FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush.
							E	H	L	M	
22	TB22XH200	6.127	6 19/32	KF-1	2517	1/2 - 2 1/2	13/16	—	1 3/4	—	10.6
24	TB24XH200	6.685	7 3/32	KF-1	3020	7/8 - 3	9/16	—	2	—	11.3
26	TB26XH200	7.241	7 25/32	KF-1	3020	7/8 - 3	9/16	—	2	—	13.3
28	TB28XH200	7.799	8 17/64	CF-1	3535	1 3/16 - 3 1/2	15/16	6 1/2	3 1/2	—	13.5
30	TB30XH200	8.356	9 1/32	CF-1	3535	1 3/16 - 3 1/2	15/16	6 1/2	3 1/2	—	18.5
32	TB32XH200	8.913	9 33/64	CF-1	3535	1 3/16 - 3 1/2	15/16	6 1/2	3 1/2	—	21.5
40	TB40XH200	11.141	11 51/64	CF-1	4040	1 7/16 - 4	1 7/16	8 1/2	4	—	37.5
48	TB48XH200	13.369	—	C-2	4040	1 7/16 - 4	13/32	8 1/2	4	23/32	44.5
60	TB60XH200	16.711	—	C-3	4040	1 7/16 - 4	23/32	8 1/2	4	23/32	47.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .11"

Martin Stock Timing Pulleys

XH
7/8" Pitch

Type CF



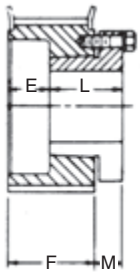
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Type DF

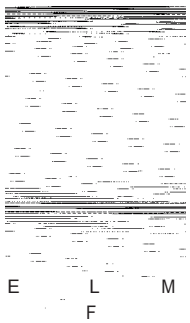


Type D

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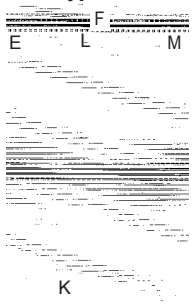


Type E



Type KF

Type JF



Type J

XH — 7/8 Pitch

XH300 For Belts 3" Wide (7/8" Pitch) **Minimum Plain Bore** **F = 3 5/8**

No. Teeth	Part Number	Pitch Diameter	Max. FL O.D.	Type	Bore		Dimensions				Wt.
					Stk.	Max.	E	H	L	M	
18	18XH300	5.013	5 37/64	DF-1	1	2 5/8	7/8	3 11/16	4 1/2	1*	15.0
20	20XH300	5.570	6 7/64	DF-1	1	3 1/4	1	4 1/8	4 5/8	3/4*	19.0

*Counterbore "M" depth on flush side.

XH — 7/8 Pitch

XH300 For Belts 3" Wide (7/8" Pitch) **Taper Bushed Type** **F = 3 5/8**

No. Teeth	Part Number	Pitch Diameter	Max. FL O.D.	Bore Type	Bush	Bore Range	Dimensions				Wt.
							E	H	L	M	
22	TB22XH300	6.127	6 21/32	KF-1	2517	1/2 - 2 1/2	15/16	—	1 3/4	15/16	13.6
24	TB24XH300	6.685	7 9/32	KF-1	3020	7/8 - 3	13/16	—	2	13/16	15.3
26	TB26XH300	7.241	7 25/32	KF-1	3020	7/8 - 3	13/16	—	2	13/16	17.3
28	TB28XH300	7.799	8 17/64	KF-1	3535	1 3/16 - 3 1/2	1/8	—	3 1/2	—	17.5
30	TB30XH300	8.356	9 1/32	KF-1	3535	1 3/16 - 3 1/2	1/8	—	3 1/2	—	22.5
32	TB32XH300	8.913	9 33/64	KF-1	3535	1 3/16 - 3 1/2	1/8	—	3 1/2	—	26.5
40	TB40XH300	11.141	11 51/64	CF-1	4040	1 7/16 - 4	3/8	7 3/4	4	—	43.5
48	TB48XH300	13.369	—	C-2	4040	1 7/16 - 4	3/16	8 1/2	4	3/16	51.5
60	TB60XH300	16.711	—	C-3	4040	1 7/16 - 4	3/16	8 1/2	4	3/16	55.5

XH — 7/8 Pitch

XH400 For Belts 4" Wide (7/8" Pitch) **QD Type** **F = 4 11/16**

No. Teeth	Part Number	Pitch Diameter	Max. FL O.D.	Type	Bush	Bore Range	Dimensions				Wt.
							E	K	L	M	
20	20XH400SK	5.570	6 3/32	JF-1	SK	1/2 - 2 1/2	1/2	1 3/16	1 15/16	2 1/4	12.4
22	22XH400SK	6.127	6 21/32	JF-1	SK	1/2 - 2 1/2	1/2	1 3/16	1 15/16	2 1/4	16.7
24	24XH400SF	6.685	7 1/32	JF-1	SF	1/2 - 2 7/8	1/2	1 3/16	2 1/16	2 3/16	19.2
26	26XH400SF	7.242	7 25/32	JF-1	SF	1/2 - 2 7/8	1/2	1 3/16	2 1/16	2 3/16	23.0
28	28XH400E	7.799	8 1/32	JF-1	E	7/8 - 3 1/2	21/32	1 17/32	2 5/8	1 13/32	24.0
30	30XH400E	8.356	8 29/32	JF-1	E	7/8 - 3 1/2	21/32	1 17/32	2 5/8	1 13/32	30.7
32	32XH400E	8.913	9 1/16	JF-1	E	7/8 - 3 1/2	21/32	1 17/32	2 5/8	1 13/32	34.0
40	40XH400F	11.141	11 11/16	HF-2	F	1 - 3 15/16	3/32	1 3/32	3 5/8	1 1/32	49.0
48	48XH400J	13.369	—	H-3	J	1 7/16 - 4 1/2	3/16	1	4 1/2	7/8	67.3
60	60XH400J	16.711	—	H-3	J	1 7/16 - 4 1/2	7/16	3/4	4 1/2	5/8	85.0
72	72XH400J	20.054	—	H-3	J	1 7/16 - 4 1/2	7/16	3/4	4 1/2	5/8	108.0
84	84XH400J	23.396	—	H-3	J	1 7/16 - 4 1/2	7/16	3/4	4 1/2	5/8	119.0
96	96XH400J	26.738	—	H-3	J	1 7/16 - 4 1/2	7/16	3/4	4 1/2	5/8	187.5
120	120XH400J	33.423	—	H-3	J	1 7/16 - 4 1/2	7/16	3/4	4 1/2	5/8	187.5

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .11"

Timing Pulley Diameters

XL - 1/5" Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
10XL	0.637	0.617	33XL	2.101	2.081	55XL	3.501	3.481	77XL	4.902	4.882	99XL	6.303	6.283
11XL	0.700	0.680	34XL	2.165	2.145	56XL	3.565	3.545	78XL	4.966	4.946	100XL	6.346	6.326
12XL	0.764	0.744	35XL	2.228	2.208	57XL	3.629	3.609	79XL	5.029	5.009	101XL	6.430	6.410
13XL	0.828	0.808	36XL	2.292	2.272	58XL	3.692	3.672	80XL	5.093	5.073	102XL	6.494	6.474
14XL	0.891	0.871	37XL	2.355	2.335	59XL	3.756	3.736	81XL	5.157	5.137	103XL	6.557	6.537
15XL	0.955	0.935	38XL	2.419	2.399	60XL	3.820	3.800	82XL	5.220	5.200	104XL	6.621	6.601
16XL	1.019	0.999	39XL	2.483	2.463	61XL	3.883	3.863	83XL	5.284	5.264	105XL	6.685	6.665
17XL	1.082	1.062	40XL	2.546	2.526	62XL	3.947	3.927	84XL	5.348	5.328	106XL	6.748	6.728
18XL	1.146	1.126	41XL	2.610	2.590	63XL	4.011	3.991	85XL	5.411	5.391	107XL	6.812	6.792
19XL	1.210	1.190	42XL	2.674	2.654	64XL	4.074	4.054	86XL	5.475	5.455	108XL	6.875	6.855
20XL	1.273	1.253	43XL	2.737	2.717	65XL	4.138	4.118	87XL	5.539	5.519	109XL	6.939	6.919
21XL	1.337	1.317	44XL	2.801	2.781	66XL	4.202	4.182	88XL	5.602	5.582	110XL	7.003	6.983
22XL	1.401	1.381	45XL	2.865	2.845	67XL	4.265	4.245	89XL	5.666	5.646	111XL	7.066	7.046
23XL	1.464	1.444	46XL	2.928	2.908	68XL	4.329	4.309	90XL	5.730	5.710	112XL	7.130	7.110
24XL	1.528	1.508	47XL	2.992	2.972	69XL	4.393	4.373	91XL	5.793	5.773	113XL	7.194	7.174
25XL	1.592	1.572	48XL	3.056	3.036	70XL	4.456	4.436	92XL	5.857	5.837	114XL	7.257	7.237
26XL	1.655	1.635	49XL	3.119	3.099	71XL	4.520	4.500	93XL	5.921	5.901	115XL	7.321	7.301
27XL	1.719	1.699	50XL	3.183	3.163	72XL	4.584	4.564	94XL	5.984	5.964	116XL	7.385	7.365
28XL	1.783	1.763	51XL	3.247	3.227	73XL	4.647	4.627	95XL	6.048	6.028	117XL	7.448	7.428
29XL	1.846	1.826	52XL	3.310	3.290	74XL	4.711	4.691	96XL	6.112	6.092	118XL	7.512	7.492
30XL	1.910	1.890	53XL	3.374	3.354	75XL	4.775	4.755	97XL	6.175	6.155	119XL	7.576	7.556
31XL	1.974	1.954	54XL	3.438	3.418	76XL	4.838	4.818	98XL	6.239	6.219	120XL	7.639	7.619
32XL	2.037	2.017												

L - 3/8" Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
10L	1.194	1.164	33L	3.939	3.909	56L	6.685	6.655	79L	9.430	9.400	102L	12.175	12.145
11L	1.313	1.283	34L	4.058	4.028	57L	6.804	6.774	80L	9.549	9.519	103L	12.295	12.265
12L	1.432	1.402	35L	4.178	4.148	58L	6.923	6.893	81L	9.669	9.639	104L	12.414	12.384
13L	1.552	1.522	36L	4.297	4.267	59L	7.043	7.013	82L	9.788	9.758	105L	12.533	12.503
14L	1.671	1.641	37L	4.417	4.387	60L	7.162	7.132	83L	9.907	9.877	106L	12.653	12.623
15L	1.790	1.760	38L	4.536	4.506	61L	7.281	7.251	84L	10.027	9.997	107L	12.772	12.742
16L	1.910	1.880	39L	4.655	4.625	62L	7.401	7.371	85L	10.147	10.117	108L	12.892	12.862
17L	2.029	1.999	40L	4.775	4.745	63L	7.520	7.490	86L	10.265	10.235	109L	13.011	12.981
18L	2.149	2.119	41L	4.894	4.864	64L	7.639	7.609	87L	10.385	10.355	110L	13.130	13.100
19L	2.268	2.238	42L	5.013	4.983	65L	7.759	7.729	88L	10.504	10.474	111L	13.250	13.220
20L	2.387	2.357	43L	5.133	5.103	66L	7.878	7.848	89L	10.624	10.594	112L	13.369	13.339
21L	2.507	2.477	44L	5.252	5.222	67L	7.998	7.968	90L	10.743	10.713	113L	13.488	13.458
22L	2.626	2.596	45L	5.371	5.341	68L	8.117	8.087	91L	10.862	10.832	114L	13.608	13.578
23L	2.745	2.715	46L	5.491	5.461	69L	8.236	8.206	92L	10.982	10.952	115L	13.727	13.697
24L	2.865	2.835	47L	5.610	5.580	70L	8.356	8.326	93L	11.101	11.071	116L	13.846	13.816
25L	2.984	2.954	48L	5.730	5.700	71L	8.475	8.445	94L	11.220	11.190	117L	13.966	13.936
26L	3.104	3.074	49L	5.849	5.819	72L	8.594	8.564	95L	11.340	11.310	118L	14.085	14.055
27L	3.223	3.193	50L	5.968	5.938	73L	8.714	8.684	96L	11.459	11.429	119L	14.205	14.175
28L	3.342	3.312	51L	6.088	6.058	74L	8.833	8.803	97L	11.579	11.549	120L	14.324	14.294
29L	3.462	3.432	52L	6.207	6.177	75L	8.952	8.922	98L	11.698	11.668	130L	15.518	15.488
30L	3.581	3.551	53L	6.326	6.296	76L	9.072	9.042	99L	11.817	11.787	140L	16.711	16.681
31L	3.700	3.670	54L	6.446	6.416	77L	9.191	9.161	100L	11.937	11.907	150L	17.905	17.875
32L	3.820	3.790	55L	6.565	6.535	78L	9.311	9.261	101L	12.056	12.026			

Timing Pulley Diameters

H - ½" Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
15H	2.387	2.333	35H	5.570	5.516	55H	8.754	8.700	75H	11.937	11.883	95H	15.120	15.066
16H	2.546	2.492	36H	5.730	5.676	56H	8.913	8.859	76H	12.096	12.042	96H	15.225	15.171
17H	2.706	2.652	37H	5.889	5.835	57H	9.072	9.018	77H	12.255	12.201	97H	15.438	15.384
18H	2.865	2.811	38H	6.048	5.994	58H	9.231	9.177	78H	12.414	12.360	98H	15.597	15.543
19H	3.024	2.970	39H	6.207	6.153	59H	9.390	9.336	79H	12.573	12.519	99H	15.756	15.702
20H	3.183	3.129	40H	6.366	6.312	60H	9.549	9.495	80H	12.732	12.678	100H	15.915	15.861
21H	3.342	3.288	41H	6.525	6.471	61H	9.708	9.654	81H	12.892	12.848	102H	16.234	16.180
22H	3.501	3.447	42H	6.685	6.631	62H	9.868	9.814	82H	13.051	12.997	104H	16.552	16.498
23H	3.661	3.607	43H	6.844	6.790	63H	10.027	9.973	83H	13.210	13.156	106H	16.870	16.816
24H	3.820	3.766	44H	7.003	6.949	64H	10.186	10.132	84H	13.369	13.315	108H	17.189	17.135
25H	3.979	3.925	45H	7.162	7.108	65H	10.345	10.291	85H	13.528	13.474	110H	17.507	17.453
26H	4.138	4.084	46H	7.321	7.267	66H	10.504	10.450	86H	13.687	13.633	115H	18.303	18.249
27H	4.297	4.243	47H	7.480	7.426	67H	10.663	10.609	87H	13.846	13.792	120H	19.099	19.045
28H	4.456	4.402	48H	7.639	7.585	68H	10.823	10.769	88H	14.005	13.952	125H	19.894	19.840
29H	4.615	4.561	49H	7.799	7.745	69H	10.982	10.928	89H	14.165	14.111	130H	20.690	20.636
30H	4.775	4.721	50H	7.958	7.904	70H	11.141	11.087	90H	14.324	14.270	135H	21.486	21.432
31H	4.934	4.880	51H	8.117	8.063	71H	11.300	11.246	91H	14.483	14.429	140H	22.282	22.228
32H	5.093	5.039	52H	8.276	8.222	72H	11.459	11.405	92H	14.642	14.588	145H	23.077	23.023
33H	5.252	5.198	53H	8.435	8.381	73H	11.618	11.564	93H	14.801	14.747	150H	23.873	23.819
34H	5.411	5.357	54H	8.594	8.540	74H	11.777	11.723	94H	14.961	14.907	156H	24.828	24.774

XH - ⅞" Pitch

No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.	No. Teeth	Diameter P.D.	Diameter O.D.
18XH	5.013	4.903	45XH	12.533	12.423	70XH	19.496	19.386	95XH	26.460	26.350	120XH	33.423	33.313
20XH	5.570	5.460	46XH	12.812	12.702	71XH	19.776	19.666	96XH	26.738	26.628	122XH	33.980	33.870
22XH	6.127	6.017	47XH	13.091	12.981	72XH	20.054	19.944	97XH	27.017	26.907	124XH	34.537	34.427
23XH	6.406	6.296	48XH	13.369	13.259	73XH	20.332	20.222	98XH	27.295	27.185	126XH	35.094	34.984
24XH	6.685	6.575	49XH	13.648	13.538	74XH	20.611	20.501	99XH	27.574	27.464	128XH	35.651	35.541
25XH	6.963	6.853	50XH	13.926	13.816	75XH	20.889	20.779	100XH	27.852	27.742	130XH	36.208	36.098
26XH	7.242	7.132	51XH	14.205	14.095	76XH	21.168	21.058	101XH	28.131	28.021	132XH	36.765	36.655
27XH	7.520	7.410	52XH	14.483	14.373	77XH	21.446	21.336	102XH	28.409	28.299	134XH	37.322	37.212
28XH	7.799	7.689	53XH	14.762	14.652	78XH	21.725	21.615	103XH	28.688	28.578	136XH	37.879	37.769
29XH	8.077	7.967	54XH	15.140	14.930	79XH	21.003	21.893	104XH	28.966	28.856	138XH	38.436	38.326
30XH	8.356	8.246	55XH	15.319	15.209	80XH	22.282	22.172	105XH	29.245	29.135	140XH	38.993	38.883
31XH	8.634	8.524	56XH	15.597	15.487	81XH	22.560	22.450	106XH	29.523	29.413	142XH	39.550	39.440
32XH	8.913	8.803	57XH	15.876	15.766	82XH	22.839	22.729	107XH	29.802	29.682	144XH	40.107	39.997
33XH	9.191	9.081	58XH	16.154	16.044	83XH	23.118	23.008	108XH	30.080	29.970	146XH	40.664	40.554
34XH	9.470	9.360	59XH	16.433	16.323	84XH	23.396	23.286	109XH	30.359	30.249	150XH	41.778	41.668
35XH	9.748	9.638	60XH	16.711	16.601	85XH	23.674	23.564	110XH	30.637	30.527			
36XH	10.027	9.917	61XH	16.990	16.880	86XH	23.953	23.843	111XH	30.916	30.806			
37XH	10.305	10.195	62XH	17.268	17.158	87XH	24.231	24.121	112XH	31.194	31.084			
38XH	10.584	10.474	63XH	17.547	17.437	88XH	24.510	24.400	113XH	31.473	31.363			
39XH	10.862	10.752	64XH	17.825	17.715	89XH	24.788	24.678	114XH	31.751	31.641			
40XH	11.141	11.031	65XH	18.104	17.994	90XH	25.067	24.957	115XH	32.030	31.920			
41XH	11.419	11.309	66XH	18.382	18.272	91XH	25.345	25.235	116XH	32.308	32.198			
42XH	11.698	11.588	67XH	18.661	18.551	92XH	25.624	25.514	117XH	32.587	32.477			
43XH	11.976	11.866	68XH	18.939	18.829	93XH	25.902	25.792	118XH	32.665	32.755			
44XH	12.255	12.145	69XH	19.218	19.108	94XH	26.181	26.071	119XH	33.145	33.035			

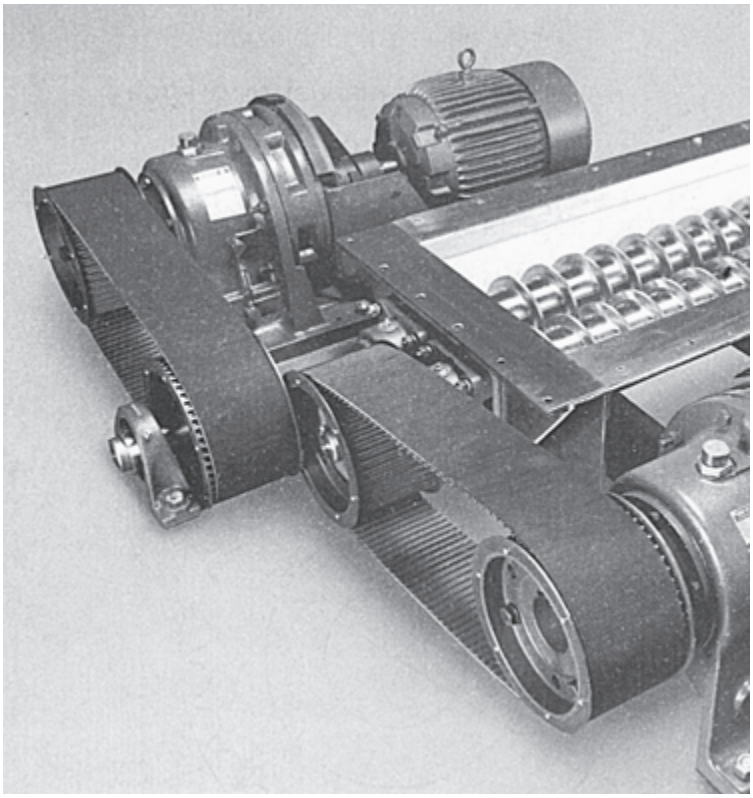
Outside Diameter Tolerances

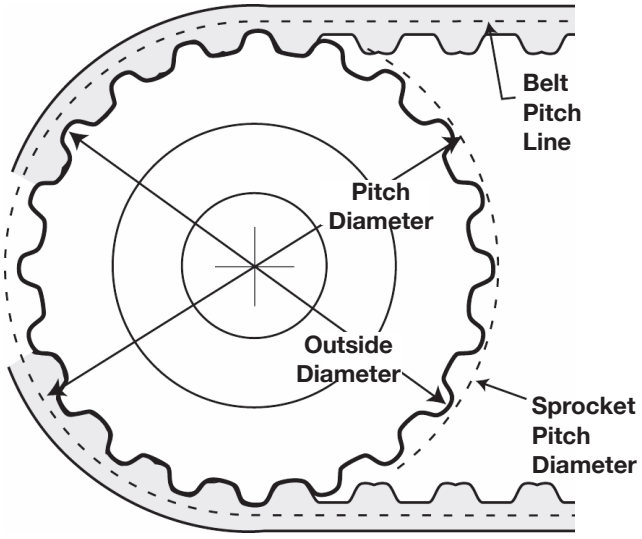
PULLEY DIA.	O.D. TOL.	PULLEY DIA.	O.D. TOL.	PULLEY DIA.	O.D. TOL.	PULLEY DIA.	O.D. TOL
0-1"	+.002 -.000	2.001" -4"	+.004 -.000	7.001" -12"	+.006 -.000	20.001 UP	+.008 -.000
1.000"-2"	+.003 -.000	4.001" -7"	+.005 -.000	12.001" -20"	+.007 -.000		

STOCK HTS SPROCKETS

FEATURES OF HTS DRIVES

- Positive Slip Proof Engagement
- Wide Speed Range
- Constant Driven Speeds
- Wide Range of Load Capabilities
- No Lubrication
- High Tension Eliminated
- High Mechanical Efficiency
- Economical Operation





HTS HIGH TORQUE SPROCKETS

- RPP® Tooth Profile
- Available in 5mm, 8mm, 14mm & 20mm pitch
- Stocked in QD and Taper Bush Interchangeable Bushing Styles, as well as Stock Bore.

RPP® is a registered trademark of Carlisle Power Transmission.

HTS BELT DRIVE SPECIFICATIONS

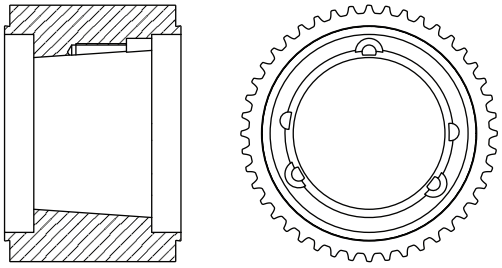
Martin HTS sprockets are manufactured in various sizes, dimensions and capacities to meet industry requirements. This includes a wide range of loads, speeds, and demanding applications.

The following is an explanation of dimensional nomenclature for Martin HTS sprockets as well as belts currently available that will operate efficiently with the Martin tooth form.

The HTS sprocket has three primary dimensions:
(Number of Teeth/Pitch/Width)

The pitch is the distance in millimeters from the center of one tooth groove to the other and is measured on the sprocket's pitch circle. The pitch circle of the sprocket matches with the pitch line of the belt when in mesh. The sprocket pitch diameter is always greater than its outer diameter.

Note: Belts must be run with sprockets of the same pitch.



P 30 14M 55 - SK

- **P** — HTS
- **30** — Number of Teeth
- **14M** — Belt Pitch: 5mm, 8mm, 14mm, 20mm
- **55** — Belt Width: 15, 25 / 20, 30, 50, 85 / 40, 55, 85, 115, 170 / 115, 170, 230, 290, 340
- **SK** — Bushing or MPB

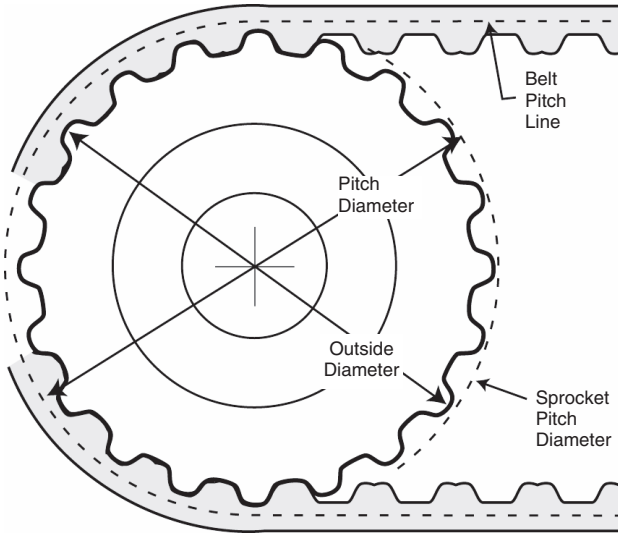
"P" HTS Sprockets (RPP® Tooth Profile) - Run with RPP®, RPP® Plus®, Hawk Pd®, & HTD® belts.

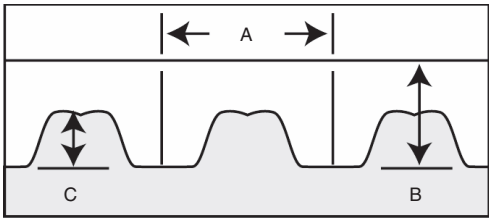
"P" HTS Sprockets are designed to run with fiberglass corded belts.

- Available in 5mm, 8mm, 14mm, 20mm pitches
- Belt widths: 15mm, 25mm (5mm pitch)
20mm, 30mm, 50mm, 85mm (8mm pitch)
40mm, 55mm, 85mm, 115mm, 170mm (14mm pitch)
115mm, 170mm, 230mm, 290mm, 340mm (20mm pitch)

As with the sprocket specifications, belt pitch is the measure between two adjacent tooth centers which is measured on the pitch line of the belt.

Note: The theoretical pitch line is within the tensile member. Belt length is the total length (circumference) in millimeters as could be measured along the pitch line.



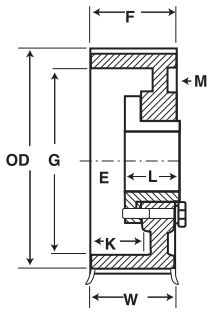


Belt Pitch	A	B	C
5MM	5MM **.197IN.**	3.81MM **.150IN.**	2.08MM **.082IN.**
8MM	8MM **.315IN.**	6MM **.236IN.**	3.4MM **.133IN.**
14MM	14MM **.552IN.**	10MM **.394IN.**	6.0MM **.237IN.**
20MM	20MM **.784IN.**	13.2MM **.520IN.**	8.4MM **.330IN.**

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RPP® and RPP® Plus® are registered trademarks of Carlisle Power Transmission. HTS® is a registered trademark of Gates Corporation.

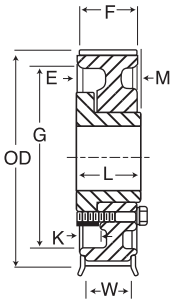
High Torque Sprockets 5mm

Type B



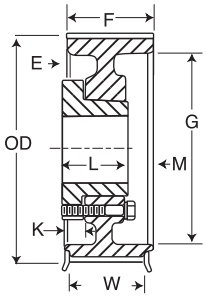
Type BF

Type C



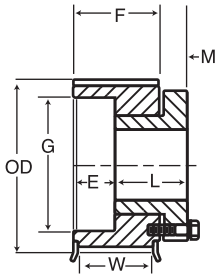
Type CF

Type D



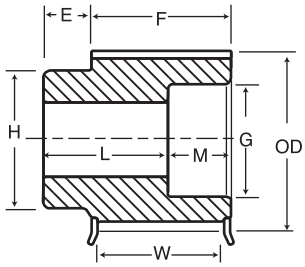
Type DF

Type E•



Type EF•

Type D (MPB Only)



Type DF (MPB Only)

No. of Teeth	Catalog Number	Bore	Pitch	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 15mm (.591 in.) Wide Belts (5M-15)																
32	P325M15-MPB	½	2.005	1.960	2.16	DF-1	0.88	0.50	1.73	—	—	1.55	0.84	—	0.65	1.12
34	P345M15-MPB	½	2.130	2.085	2.29	DF-1	1.00	0.50	1.73	—	—	1.68	0.84	—	0.65	1.25
36	P365M15-MPB	½	2.256	2.211	2.41	DF-1	1.12	0.50	1.73	—	—	1.80	0.84	—	0.65	1.39
QD 15mm (.591in.) Wide Belts (5M-15)																
38	P385M15-JA	JA	2.381	2.336	2.54	• EF-1	1.25	0.67	1.00	0.44	—	—	0.84	1.34	0.65	0.80
40	P405M15-JA	JA	2.506	2.461	2.66	• EF-1	1.25	0.67	1.00	0.44	—	—	0.84	1.34	0.65	1.06
44	P445M15-JA	JA	2.757	2.712	2.91	• EF-1	1.25	0.67	1.00	0.44	—	—	0.84	1.34	0.65	1.40
48	P485M15-JA	JA	3.008	2.963	3.16	BF-1	1.25	0.23	1.00	0.00	0.67	—	0.84	2.36	0.65	1.20
52	P525M15-JA	JA	3.258	3.213	3.41	BF-1	1.25	0.23	1.00	0.00	0.67	—	0.84	2.62	0.65	1.43
56	P565M15-SH	SH	3.509	3.464	3.66	DF-1	1.68	0.08	1.25	0.06	0.42	—	0.84	2.86	0.65	1.64
60	P605M15-SH	SH	3.760	3.715	3.92	DF-1	1.68	0.08	1.25	0.06	0.42	—	0.84	3.12	0.65	1.83
64	P645M15-SH	SH	4.010	3.965	4.16	DF-1	1.68	0.08	1.25	0.06	0.42	—	0.84	3.37	0.65	2.16
68	P685M15-SDS	SDS	4.261	4.216	4.41	CF-1	2.00	0.08	1.31	0.00	0.48	—	0.84	3.50	0.65	2.48
72	P725M15-SDS	SDS	4.511	4.466	4.66	CF-1	2.00	0.08	1.31	0.00	0.48	—	0.84	3.75	0.65	2.84
80	P805M15-SDS	SDS	5.013	4.968	—	C-1	2.00	0.08	1.31	0.00	0.48	—	0.84	4.25	0.65	3.61
90	P905M15-SDS	SDS	5.639	5.594	—	C-1	2.00	0.08	1.31	0.00	0.48	—	0.84	4.88	0.65	4.69
112	P1125M15-SDS	SDS	7.018	6.973	—	C-2	2.00	0.08	1.31	0.00	0.48	—	0.84	6.05	0.65	6.02
MPB 25mm (.984in.) Wide Belts (5M-25)																
32	P325M25-MPB	½	2.005	1.960	2.16	DF-1	0.88	0.50	1.34	—	—	1.55	1.23	—	1.04	0.84
34	P345M25-MPB	½	2.130	2.085	2.29	DF-1	1.00	0.50	1.34	—	—	1.68	1.23	—	1.04	0.93-
36	P365M25-MPB	½	2.256	2.211	2.41	DF-1	1.12	0.50	1.34	—	—	1.80	1.23	—	1.04	1.03
QD 25mm (.984in.) Wide Belts (5M-25)																
38	P385M25-JA	JA	2.381	2.336	2.54	• EF-1	1.25	0.28	1.00	0.44	—	—	1.23	1.34	1.04	0.61
40	P405M25-JA	JA	2.506	2.461	2.66	• EF-1	1.25	0.28	1.00	0.44	—	—	1.23	1.34	1.04	0.72
44	P445M25-JA	JA	2.757	2.712	2.91	• EF-1	1.25	0.28	1.00	0.44	—	—	1.23	1.34	1.04	0.95
48	P485M25-JA	JA	3.008	2.963	3.16	CF-1	1.25	0.16	1.00	0.00	0.28	—	1.23	2.36	1.04	0.97
52	P525M25-JA	JA	3.258	3.213	3.41	CF-1	1.25	0.16	1.00	0.00	0.28	—	1.23	2.62	1.04	1.17
56	P565M25-SH	SH	3.509	3.464	3.66	DF-1	1.68	0.50	1.25	0.09	0.00	—	1.23	—	1.04	1.37
60	P605M25-SH	SH	3.760	3.715	3.92	DF-1	1.68	0.50	1.25	0.09	0.00	—	1.23	—	1.04	1.68
64	P645M25-SH	SH	4.010	3.965	4.16	DF-1	1.68	0.50	1.25	0.09	0.00	—	1.23	—	1.04	1.80
68	P685M25-SDS	SDS	4.261	4.216	4.41	CF-1	2.00	0.47	1.31	0.00	0.09	—	1.23	3.50	1.04	2.10
72	P725M25-SDS	SDS	4.511	4.466	4.66	CF-1	2.00	0.47	1.31	0.00	0.09	—	1.23	3.75	1.04	2.43
80	P805M25-SDS	SDS	5.013	4.968	—	C-1	2.00	0.47	1.31	0.00	0.09	—	1.23	4.25	1.04	3.15
90	P905M25-SDS	SDS	5.639	5.594	—	C-1	2.00	0.47	1.31	0.00	0.09	—	1.23	4.88	1.04	4.17
112	P1125M25-SDS	SDS	7.018	6.973	—	C-1	2.00	0.47	1.31	0.00	0.09	—	1.23	6.05	1.04	5.16

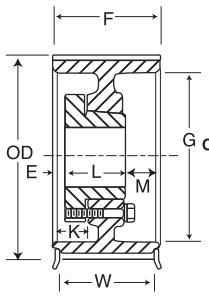
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

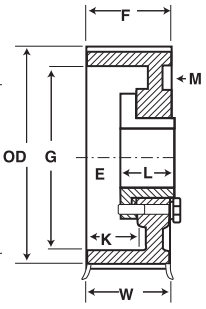
High Torque Sprockets 8mm

Type A



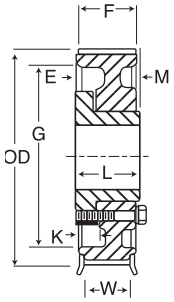
Type AF

Type B



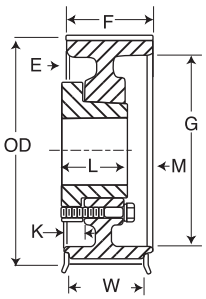
Type BF

Type C



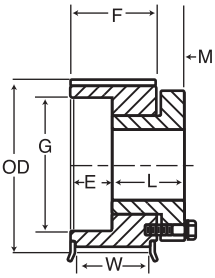
Type CF

Type D



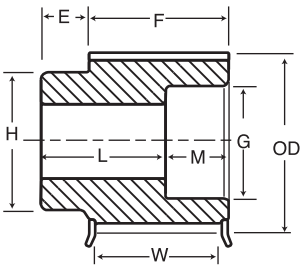
Type DF

Type E•



Type EF•

Type D (MPB Only)



Type DF (MPB Only)

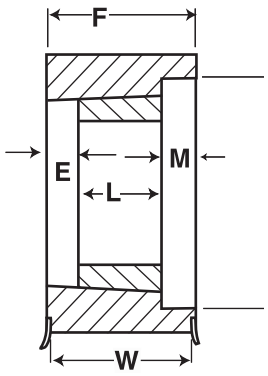
No. of Teeth	Catalog Number	Bore	Pitch	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 20mm (.787 in.) Wide Belts (8M-20)																
20	P208M20-MPB	½	2.005	1.951	2.375	DF-1	⅞	⅝	1¾	0	—	1⅜	1⅛	—	⅞	.90
21	P218M20-MPB	½	2.105	2.051	2.468	DF-1	1	⅝	1¾	0	—	1½	1⅛	—	⅞	1.00
22	P228M20-MPB	½	2.206	2.152	2.562	DF-1	1⅜₁₆	⅝	1¾	0	—	1⅝	1⅛	—	⅞	1.60
QD 20mm (.787 in.) Wide Belts (8M-20)																
24	P248M20-JA	JA	2.406	2.352	2.750	• EF-1	1¼	⁹⁄₁₆	1¹⁄₁₆	⁷⁄₁₆	—	—	1⅛	1.34	⅞	1.50
26	P268M20-JA	JA	2.607	2.553	2.937	• EF-1	1¼	⁹⁄₁₆	1¹⁄₁₆	⁷⁄₁₆	—	—	1⅛	1.34	⅞	1.80
28	P288M20-H	H	2.807	2.753	3.156	• EF-1	1⅜	¼	1¼	⅜	—	—	1⅛	1.57	⅞	1.40
30	P308M20-H	H	3.008	2.954	3.344	• EF-1	1⅜	¼	1¼	⅜	—	—	1⅛	1.57	⅞	1.90
32	P328M20-H	H	3.208	3.154	3.562	CF-1	1⅜	⅛	1¼	0	¼	—	1⅛	2.56	⅞	2.00
34	P348M20-SH	SH	3.409	3.355	3.750	DF-1	1¹¹⁄₁₆	³⁄₁₆	1¼	¹⁄₁₆	⁵⁄₁₆	—	1⅛	2.75	⅞	2.20
36	P368M20-SH	SH	3.609	3.555	3.937	DF-1	1¹¹⁄₁₆	³⁄₁₆	1¼	¹⁄₁₆	⁵⁄₁₆	—	1⅛	2.82	⅞	2.50
38	P388M20-SH	SH	3.810	3.756	4.156	DF-1	1¹¹⁄₁₆	³⁄₁₆	1¼	¹⁄₁₆	⁵⁄₁₆	—	1⅛	3.00	⅞	2.80
40	P408M20-SH	SH	4.010	3.956	4.344	DF-1	1¹¹⁄₁₆	³⁄₁₆	1¼	¹⁄₁₆	⁵⁄₁₆	—	1⅛	3.00	⅞	3.00
44	P448M20-SDS	SDS	4.411	4.357	4.750	CF-1	2	³⁄₁₆	1¼	0	⅜	—	1⅛	3.50	⅞	3.20
48	P488M20-SDS	SDS	4.812	4.758	5.157	CF-1	2	³⁄₁₆	1⁵⁄₁₆	0	⅜	—	1⅛	3.8	⅞	3.40
56	P568M20-SDS	SDS	5.614	5.560	5.937	CF-1	2	³⁄₁₆	1⁵⁄₁₆	0	⅜	—	1⅛	4.6	⅞	4.50
64	P648M20-SDS	SDS	6.416	6.362	6.750	CF-1	2	³⁄₁₆	1⁵⁄₁₆	0	⅜	—	1⅛	5.4	⅞	5.50
72	P728M20-SDS	SDS	7.218	7.164	7.562	CF-1	2	³⁄₁₆	1⁵⁄₁₆	0	⅜	—	1⅛	6.2	⅞	6.00
80	P808M20-SDS	SDS	8.020	7.966	8.375	CF-2	2	³⁄₁₆	1⁵⁄₁₆	0	⅜	—	1⅛	6.9	⅞	6.50
90	P908M20-SDS	SDS	9.023	8.969	—	C-2	2	³⁄₁₆	1⁵⁄₁₆	0	⅜	—	1⅛	7.62	—	7.00
112	P1128M20-SK	SK	11.229	11.175	—	C-3	2⅝	¾	1¹⁵⁄₁₆	¹⁄₁₆	¹⁄₁₆	—	1⅛	9.87	—	10.50
144	P1448M20-SF	SF	14.447	14.388	—	C-3	2¹⁵⁄₁₆	¾	2¹⁄₁₆	¹⁄₁₆	¹⁄₁₆	—	1⅛	12.88	—	14.50
Taper Bushed 20mm (.787 in.) Wide Belts (8M-20)																
24	P248M20-1108	1108	2.406	2.352	2.75	KF-1	1	¹⁄₁₆	⅞	³⁄₁₆	—	--	1⅛	1.783	⅞	.7
26	P268M20-1108	1108	2.607	2.553	2.94	KF-1	1	¹⁄₁₆	⅞	³⁄₁₆	—	--	1⅛	1.971	⅞	.9
28	P288M20-1108	1108	2.807	2.753	3.16	KF-1	1	¹⁄₁₆	⅞	³⁄₁₆	—	--	1⅛	2.000	⅞	1.2
30	P308M20-1210	1210	3.008	2.954	3.34	KF-1	1¼	⅛	1	—	—	--	1⅛	—	⅞	1.2
32	P328M20-1210	1210	3.208	3.154	3.56	KF-1	1¼	⅛	1	—	—	--	1⅛	—	⅞	1.4
34	P348M20-1610	1610	3.409	3.355	3.75	KF-1	1¹¹⁄₁₆	⅛	1	—	—	--	1⅛	—	⅞	1.4
36	P368M20-1610	1610	3.609	3.555	3.94	KF-1	1¹¹⁄₁₆	⅛	1	—	—	--	1⅛	—	⅞	1.7
38	P388M20-1610	1610	3.810	3.756	4.16	KF-1	1¹¹⁄₁₆	⅛	1	—	—	--	1⅛	—	⅞	2.0
40	P408M20-1610	1610	4.010	3.956	4.34	KF-1	1¹¹⁄₁₆	⅛	1	—	—	--	1⅛	—	⅞	2.4
44	P448M20-2012	2012	4.411	4.357	4.75	CF-1	2⅛	—	1¼	⅛	—	3²⁷⁄₃₂	1⅛	—	⅞	2.6
48	P488M20-2012	2012	4.812	4.758	5.16	CF-1	2⅛	—	1¼	⅛	—	3⅞	1⅛	—	⅞	3.4
56	P568M20-2012	2012	5.614	5.560	5.94	CF-1	2⅛	—	1¼	⅛	—	3⅞	1⅛	—	⅞	5.3
64	P648M20-2012	2012	6.416	6.362	6.75	CF-1	2⅛	—	1¼	⅛	—	4⅜	1⅛	—	⅞	7.5
72	P728M20-2012	2012	7.218	7.164	7.56	CF-1	2⅛	—	1¼	⅛	—	4⅜	1⅛	—	⅞	9.9
80	P808M20-2517	2517	8.020	7.966	8.38	CF-2	2¹¹⁄₁₆	—	1¾	⅝	—	4⅞	1⅛	6.900	⅞	11.9
90	P908M20-2517	2517	9.023	8.969	—	C-2	2¹¹⁄₁₆	—	1¾	⅝	—	—	1⅛	7.630	—	12.9

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

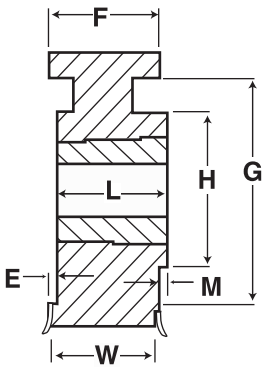
High Torque Sprockets 8mm

Type K



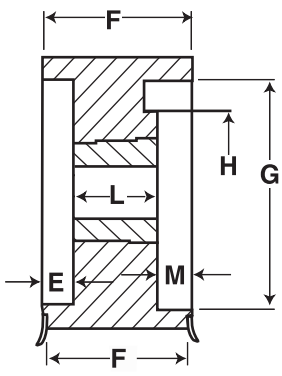
Type KF

Type B



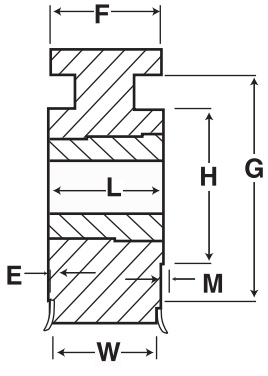
Type BF

Type W



Type WF

Type C



Type CF

No. of Teeth	Catalog Number	Bore	Pitch	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 30mm (1.18in.) Wide Belts (8M-30)																
20	P208M30-MPB	½	2.005	1.951	2.375	DF-1	⅞	⅝	2⅛	—	—	1⅜	1½	—	1⅛	1.10
21	P218M30-MPB	½	2.105	2.051	2.468	DF-1	1	⅝	2⅛	—	—	1½	1½	—	1⅛	1.30
22	P228M30-MPB	½	2.206	2.152	2.562	DF-1	1 3/16	⅝	2⅛	—	—	1⅝	1½	—	1¼	1.40
24	P248M30-MPB	½	2.406	2.352	2.750	DF-1	1¼	⅝	2⅛	—	—	1 13/16	1½	—	1¼	1.80
26	P268M30-MPB	½	2.607	2.553	2.937	DF-1	1¼	¾	2¼	—	—	2	1½	—	1¼	2.20
QD 30mm (1.18in.) Wide Belts (8M-30)																
28	P288M30-H	H	2.807	2.753	3.156	• EF-1	1¼	⅝	1¼	⅜	—	—	1½	1.57	1¼	1.70
30	P308M30-H	H	3.008	2.954	3.344	• EF-1	1⅜	⅝	1¼	⅜	—	—	1½	1.57	1¼	1.90
32	P328M30-H	H	3.208	3.154	3.562	BF-1	1⅜	¼	1¼	—	⅝	—	1½	2.56	1¼	2.10
34	P348M30-SH	SH	3.409	3.355	3.750	AF-1	1⅜	3/16	1¼	1/16	11/16	—	1½	2.75	1¼	2.40
36	P368M30-SH	SH	3.609	3.555	3.937	AF-1	1 11/16	3/16	1¼	1/16	11/16	—	1½	2.82	1¼	2.80
38	P388M30-SH	SH	3.810	3.756	4.156	AF-1	1 11/16	3/16	1¼	1/16	11/16	—	1½	3.00	1¼	3.20
40	P408M30-SH	SH	4.010	3.956	4.344	AF-1	1 11/16	3/16	1¼	1/16	11/16	—	1½	3.00	1¼	3.60
44	P448M30-SDS	SDS	4.411	4.357	4.750	BF-1	1 11/16	3/16	1 5/16	—	¾	—	1½	3.50	1¼	3.80
48	P488M30-SDS	SDS	4.812	4.758	5.157	BF-1	2	3/16	1 5/16	—	¾	—	1½	3.80	1¼	4.20
56	P568M30-SDS	SDS	5.614	5.560	5.937	BF-1	2	3/16	1 5/16	—	¾	—	1½	4.60	1¼	4.80
64	P648M30-SK	SK	6.416	6.362	6.750	CF-1	2	⅜	1⅞	—	¼	—	1½	5.40	1¼	6.10
72	P728M30-SK	SK	7.218	7.164	7.562	CF-1	2⅝	⅜	1⅞	—	¼	—	1½	6.20	1¼	6.80
80	P808M30-SK	SK	8.020	7.966	8.375	CF-2	2⅝	⅜	1⅞	—	¼	—	1½	6.90	1¼	7.50
90	P908M30-SK	SK	9.023	8.969	—	C-2	2⅝	⅜	1⅞	—	¼	—	1½	7.62	—	11.00
112	P1128M30-SK	SK	11.229	11.175	—	C-3	2⅝	⅜	1⅞	—	¼	—	1½	9.87	—	13.00
144	P1448M30-SF	SF	14.447	14.383	—	C-3	2 15/16	9/16	2 1/16	—	¼	—	1½	12.88	—	25.50
192	P1928M30-E	E	19.249	19.195	—	C-3	—	1 5/16	2⅝	1/16	1/16	—	1½	17.63	—	30.00
Taper Bushed 30mm (1.18in.) Wide Belts (8M-30)																
24	P248M30-1108	1108	2.406	2.352	2.75	KF-1	1	⅛	⅞	½	—	—	1½	1.783	1¼	.9
26	P268M30-1108	1108	2.607	2.553	2.94	KF-1	1	⅛	⅞	½	—	—	1½	1.971	1¼	1.2
28	P288M30-1108	1108	2.807	2.753	3.16	KF-1	1	⅛	⅞	½	—	—	1½	2.000	1¼	1.6
30	P308M30-1210	1210	3.008	2.954	3.34	KF-1	1¼	⅛	1	⅜	—	—	1½	2.345	1¼	1.5
32	P328M30-1210	1210	3.208	3.154	3.56	KF-1	1¼	⅛	1	⅜	—	—	1½	2.560	1¼	1.9
34	P348M30-1610	1610	3.409	3.355	3.75	KF-1	1 11/16	⅛	1	⅜	—	—	1½	2.750	1¼	2.3
36	P368M30-1610	1610	3.609	3.555	3.94	KF-1	1 11/16	⅛	1	⅜	—	—	1½	2.820	1¼	2.2
38	P388M30-1610	1610	3.810	3.756	4.16	KF-1	1 11/16	⅛	1	⅜	—	—	1½	3.000	1¼	2.7
40	P408M30-2012	2012	4.010	3.956	4.34	KF-1	2⅛	—	1¼	¼	—	—	1½	3.250	1¼	2.4
44	P448M30-2012	2012	4.411	4.357	4.75	KF-1	2⅛	—	1¼	—	¼	—	1½	3.500	1¼	3.4
48	P488M30-2012	2012	4.812	4.758	5.16	KF-1	2⅛	—	1¼	—	¼	—	1½	3.800	1¼	4.5
56	P568M30-2012	2012	5.614	5.560	5.94	KF-1	2⅛	—	1¼	—	¼	—	1½	4.600	1¼	7.0
64	P648M30-2517	2517	6.416	6.362	6.75	CF-1	2 11/16	—	1¾	—	¼	4⅞	1½	—	1¼	8.9
72	P728M30-2517	2517	7.218	7.164	7.56	CF-1	2 11/16	—	1¾	—	¼	4⅞	1½	—	1¼	12.1
80	P808M30-2517	2517	8.020	7.966	8.38	CF-2	2 11/16	—	1¾	—	¼	4⅞	1½	—	1¼	15.8
90	P908M30-2517	2517	9.023	8.969	—	C-2	2 11/16	⅛	1¾	—	⅛	4⅞	1½	7.630	—	13.8
112	P1128M30-2517	2517	11.229	11.175	—	C-3	2 11/16	⅛	1¾	—	⅛	4⅞	1½	9.880	—	23.5
144	P1448M30-2517	2517	14.437	14.383	...	C-3	2 11/16	¼	1¾	—	...	4⅞	1½	12.880	...	21.3

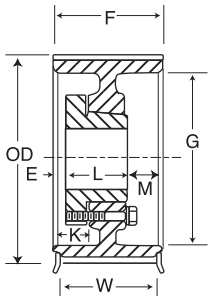
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

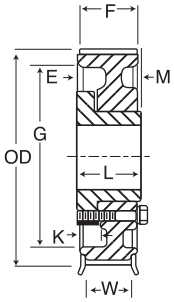
High Torque Sprockets 8mm

Type A



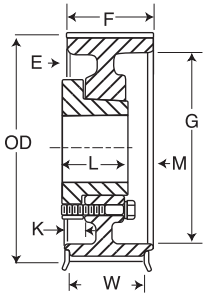
Type AF

Type C



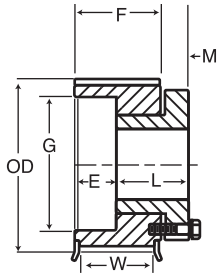
Type CF

Type D



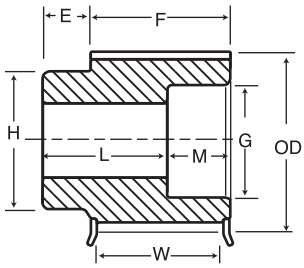
Type DF

Type E•



Type EF•

Type D (MPB Only)



Type DF (MPB Only)

No. of Teeth	Catalog Number	Bore	Pitch	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 50mm (1.97 in.) Wide Belts (8M-50)																
28	P288M50-MPB	½	2.807	2.753	3.156	DF-1	1¼	¾	3⅛	—	—	2³⁄₃₂	2⅜	—	2⅛	4.2
30	P308M50-MPB	½	3.008	2.954	3.344	DF-1	1¼	¾	3⅛	—	—	2¹⁵⁄₃₂	2⅜	—	2⅛	4.9
32	P328M50-MPB	½	3.208	3.154	3.562	DF-1	1⅝	¾	3⅛	—	—	2¹⁹⁄₃₂	2⅜	—	2⅛	5.4
QD 50mm (1.97 in.) Wide Belts (8M-50)																
32	P328M50-H	H	3.208	3.154	3.562	AF-1	1⅜	½	1¼	⅝	¾	—	2⅜	2.56	2⅛	2.9
34	P348M50-SH	SH	3.409	3.355	3.750	AF-1	1¹¹⁄₁₆	—	1¼	1⅛	½	—	2⅜	2.75	2⅛	3.2
36	P368M50-SH	SH	3.609	3.555	3.937	AF-1	1¹¹⁄₁₆	—	1¼	1⅛	½	—	2⅜	2.82	2⅛	3.8
38	P388M50-SH	SH	3.810	3.756	4.156	AF-1	1¹¹⁄₁₆	—	1¼	1⅛	½	—	2⅜	3.00	2⅛	4.2
40	P408M50-SH	SH	4.010	3.956	4.344	AF-1	1¹¹⁄₁₆	—	1¼	1⅛	½	—	2⅜	3.00	2⅛	4.6
44	P448M50-SD	SD	4.411	4.357	4.750	AF-1	2	—	1¹³⁄₁₆	⅝	⅝	—	2⅜	3.50	2⅛	5.2
48	P488M50-SD	SD	4.812	4.758	5.157	AF-1	2	—	1¹³⁄₁₆	⅝	⅝	—	2⅜	3.80	2⅛	6.0
56	P568M50-SK	SK	5.614	5.560	5.937	DF-1	2⅝	1⁄16	1⅞	⅝	⅝	—	2⅜	4.60	2⅛	7.6
64	P648M50-SK	SK	6.416	6.362	6.750	DF-1	2⅝	1⁄16	1⅞	⅝	⅝	—	2⅜	5.40	2⅛	10.3
72	P728M50-SK	SK	7.218	7.164	7.562	DF-1	2⅝	1⁄16	1⅞	⅝	⅝	—	2⅜	6.20	2⅛	13.3
80	P808M50-SF	SF	8.020	7.966	8.326	DF-1	2⅞	1⁄16	2	7⁄16	⅝	—	2⅜	6.90	2⅛	12.7
90	P908M50-SF	SF	9.023	8.969	—	D-2	2⅞	1⁄16	2	7⁄16	⅝	—	2⅜	7.62	2⅛	16.0
112	P1128M50-SF	SF	11.229	11.175	—	D-3	2⅞	1⁄16	2	7⁄16	⅝	—	2⅜	9.88	2⅛	21.0
144	P1448M50-E	E	14.437	14.383	—	D-3	3½	½	2⅝	2	⅜	—	2⅜	12.88	2⅛	35.0
192	P1928M50-E	E	19.249	19.195	—	D-3	3½	½	2⅝	2	⅜	—	2⅜	17.63	2⅛	45.0
Taper Bushed 50mm (1.97 in.) Wide Belts (8M-50)																
28	P288M50-1108	1108	2.807	2.753	3.16	KF-1	1	—	⅞	1½	—	—	2⅜	2.000	2⅛	2.1
30	P308M50-1210	1210	3.008	2.954	3.34	KF-1	1¼	—	1	1⅜	—	—	2⅜	2.345	2⅛	2.2
32	P328M50-1210	1210	3.208	3.154	3.56	KF-1	1¼	—	1	1⅜	—	—	2⅜	2.560	2⅛	2.1
34	P348M50-1610	1610	3.409	3.355	3.75	KF-1	1¹¹⁄₁₆	—	1	1⅜	—	—	2⅜	2.750	2⅛	2.1
36	P368M50-1610	1610	3.609	3.555	3.94	KF-1	1¹¹⁄₁₆	—	1	1⅜	—	—	2⅜	2.820	2⅛	2.7
38	P388M50-1610	1610	3.810	3.756	4.16	KF-1	1¹¹⁄₁₆	—	1	1⅜	—	—	2⅜	3.000	2⅛	3.1
40	P408M50-2012	2012	4.010	3.956	4.34	KF-1	2⅛	—	1¼	1⅛	—	—	2⅜	3.250	2⅛	3.4
44	P448M50-2012	2012	4.411	4.357	4.75	KF-1	2⅛	—	1¼	1⅛	—	—	2⅜	3.500	2⅛	4.3
48	P488M50-2012	2012	4.812	4.758	5.16	KF-1	2⅛	—	1¼	1⅛	—	—	2⅜	3.800	2⅛	5.5
56	P568M50-2517	2517	5.614	5.560	5.94	KF-1	2¹¹⁄₁₆	—	1¾	⅝	—	—	2⅜	4.600	2⅛	8.1
64	P648M50-2517	2517	6.416	6.362	6.75	KF-1	2¹¹⁄₁₆	—	1¾	⅝	—	—	2⅜	5.400	2⅛	11.7
72	P728M50-2517	2517	7.218	7.164	7.56	KF-1	2¹¹⁄₁₆	—	1¾	⅝	—	—	2⅜	6.200	2⅛	15.7
80	P808M50-2517	2517	8.020	7.966	8.38	KF-1	2¹¹⁄₁₆	—	1¾	⅝	—	—	2⅜	6.900	2⅛	20.3
90	P908M50-3020	3020	9.023	8.969	—	W-1	3¼	—	2	⅜	—	—	2⅜	7.630	2⅛	31.7
112	P1128M50-3020	3020	11.229	11.175	—	W-3	3¼	—	2	⅜	—	6¼	2⅜	9.880	2⅛	34.7
144	P1448M50-3020	3020	14.437	14.383	—	W-3	3¼	—	2	⅜	—	7½	2⅜	12.880	2⅛	36.0
192	P1928M50-3020	3020	19.249	19.195	—	W-3	3¼	—	2	⅜	—	7½	2⅜	17.630	2⅛	67.2

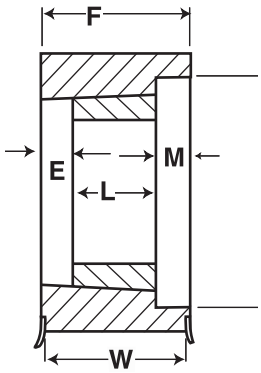
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

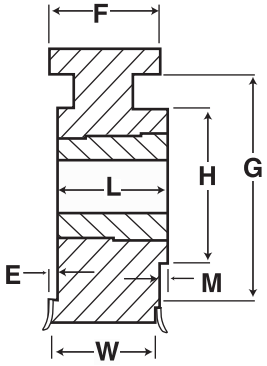
High Torque Sprockets 8mm

Type K



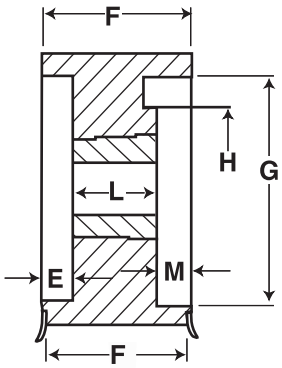
Type KF

Type B



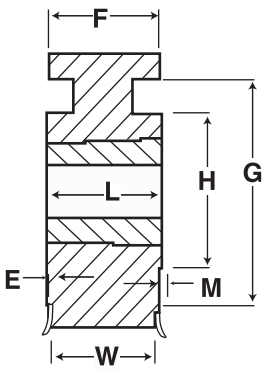
Type BF

Type W



Type WF

Type C



Type CF

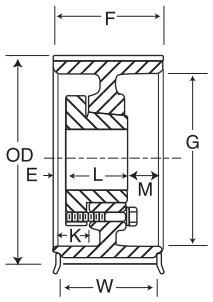
No. of Teeth	Catalog Number	Bore	Pitch	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight Approx. (lbs)
MPB 85mm (3.35 in.) Wide Belts (8M-85)																
34	P348M85-MPB	¾	3.409	3.355	3.750	DF-1	1 11/16	¾	4½	0	—	2 51/64	3¾	—	3½	10.00
36	P368M85-MPB	¾	3.609	3.555	3.937	DF-1	1¾	¾	4½	0	—	3	3¾	—	3½	11.30
38	P388M85-MPB	¾	3.810	3.756	4.156	DF-1	1 15/16	¾	4½	0	—	3 3/16	3¾	—	3½	12.60
40	P408M85-MPB	¾	4.010	3.956	4.344	DF-1	2⅛	¾	4½	0	—	3 13/32	3¾	—	3½	14.90
44	P448M85-MPB	¾	4.411	4.357	4.750	DF-1	2¼	¾	4½	0	—	3 51/64	3¾	—	3½	17.20
48	P488M85-MPB	¾	4.812	4.758	5.157	DF-1	2½	¾	4½	0	—	4 3/16	3¾	—	3½	20.60
56	P568M85-MPB	⅞	5.614	5.560	5.937	DF-1	3	¾	4½	0	—	5	3¾	—	3½	28.00
QD 85mm (3.35 in.) Wide Belts (8M-85)																
34	P348M85-SH	SH	3.409	3.355	3.819	AF-1	1 11/16	1	1¼	1½	1½	—	3¾	2.75	3½	4.6
36	P368M85-SH	SH	3.609	3.555	3.937	AF-1	1 11/16	1	1¼	1½	1½	—	3¾	2.82	3½	5.2
38	P388M85-SH	SH	3.810	3.756	4.134	AF-1	1 11/16	1	1¼	1½	1½	—	3¾	3.00	3½	5.8
40	P408M85-SD	SD	4.010	3.956	4.344	AF-1	2	1/16	1 13/16	1¼	1¼	—	3¾	3.25	3½	5.6
44	P448M85-SD	SD	4.411	4.357	4.750	AF-1	2	1/16	1 13/16	1¼	1¼	—	3¾	3.50	3½	6.2
48	P488M85-SD	SD	4.812	4.758	5.157	AF-1	2	1/16	1 13/16	1¼	1¼	—	3¾	3.80	3½	7.8
56	P568M85-SK	SK	5.614	5.560	5.937	AF-1	2⅝	⅝	1⅞	1¼	1¼	—	3¾	4.60	3½	9.8
64	P648M85-SF	SF	6.416	6.362	6.750	AF-1	2⅝	⅝	1⅞	1¼	1¼	—	3¾	5.40	3½	13.0
72	P728M85-E	E	7.218	7.164	7.562	AF-1	2 15/16	⅝	2	1⅛	1¼	—	3¾	6.20	3½	16.0
80	P808M85-E	E	8.020	7.966	8.375	AF-1	2 15/16	⅝	2	1⅛	1¼	—	3¾	6.90	3½	17.0
90	P908M85-E	E	9.023	8.969	—	A-2	2 15/16	⅝	2	1⅛	1¼	—	3¾	7.62	—	20.0
112	P1128M85-F	F	11.229	11.175	—	A-3	2 15/16	⅝	2	1⅛	1¼	—	3¾	9.88	—	28.0
144	P1448M85-F	F	14.447	14.383	—	A-3	4	⅜	3⅝	14	¼	—	3¾	12.88	3½	79.0
192	P1928M85-F	F	19.249	19.195	—	A-3	4	⅜	3⅝	½	⅝	—	3¾	17.65	3½	101.4
Taper Bushed 85mm (3.35 in.) Wide Belts (8M-85)																
34	P348M85-1615	1615	3.409	3.355	3.75	WF-1	1 11/16	¾	1½	1½	—	—	3¾	2.750	3½	3.3
36	P368M85-1615	1615	3.609	3.555	3.94	WF-1	1 11/16	¾	1½	1½	—	—	3¾	2.820	3½	4.2
38	P388M85-1615	1615	3.810	3.756	4.16	WF-1	1 11/16	¾	1½	1½	—	—	3¾	3.000	3½	4.7
40	P408M85-2012	2012	4.010	3.956	4.34	WF-1	2⅛	1¼	1¼	1¼	—	—	3¾	3.250	3½	4.7
44	P448M85-2012	2012	4.411	4.357	4.75	WF-1	2⅛	1¼	1¼	1¼	—	—	3¾	3.500	3½	6.4
48	P488M85-2012	2012	4.812	4.758	5.16	WF-1	2⅛	1¼	1¼	1¼	—	—	3¾	3.800	3½	8.0
56	P568M85-2517	2517	5.614	5.560	5.94	WF-1	2 1/16	1	1¾	1	—	—	3¾	4.500	3½	11.0
64	P648M85-2517	2517	6.416	6.362	6.75	WF-1	2 1/16	1	1¾	1	—	—	3¾	5.400	3½	15.0
72	P728M85-3020	3020	7.218	7.164	7.56	WF-1	3¼	⅞	2	⅞	—	—	3¾	6.200	3½	18.2
80	P808M85-3020	3020	8.020	7.966	8.38	WF-1	3¼	⅞	2	⅞	—	—	3¾	6.900	3½	24.2
90	P908M85-3020	3020	9.023	8.969	—	W-1	3¼	⅞	2	⅞	—	—	3¾	7.630	—	31.9
112	P1128M85-3020	3020	11.229	11.175	—	W-3	3¼	⅞	2	⅞	—	6¼	3¾	9.880	—	34.6
144	P1448M85-3535	3535	14.437	14.383	—	W-3	3 15/16	⅛	3½	⅛	—	7	3¾	12.880	—	49.6
192	P1928M85-3535	3535	19.249	19.195	—	W-3	3 15/16	⅛	3½	⅛	—	7	3¾	17.630	—	81.4

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

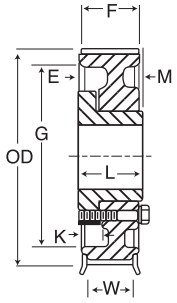
High Torque Sprockets 14mm

Type A



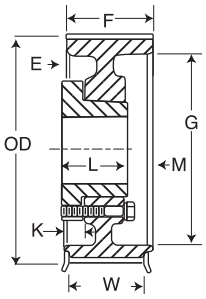
Type AF

Type C



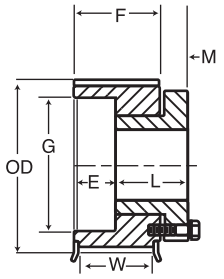
Type CF

Type D



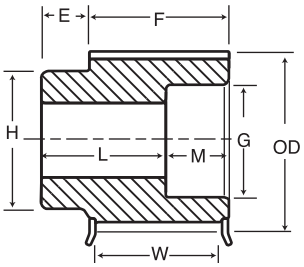
Type DF

Type E•



Type EF•

Type D (MPB Only)



Type DF (MPB Only)

No. of Teeth	Catalog Number	Bore	P.D.	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight Approx. (lbs)
QD 40mm (1.570 in.) Wide Belts (140M-40)																
28	P2814M40-SK	SK	4.912	4.802	5.56	• EF-1	2⅝	⅞	1⅞	⅝	—	—	2⅛	3.13	1 13/16	5.5
29	P2914M40-SK	SK	5.088	4.978	5.56	• EF-1	2⅝	⅞	1⅞	⅝	—	—	2⅛	3.13	1 13/16	6.5
30	P3014M40-SK	SK	5.263	5.153	6.13	DF-1	2⅝	3/16	1⅞	7/16	—	—	2⅛	3.92	1 13/16	6.0
32	P3214M40-SK	SK	5.614	5.504	6.13	DF-1	2⅝	3/16	1⅞	7/16	7/16	—	2⅛	3.92	1 13/16	8.0
34	P3414M40-SK	SK	5.965	5.855	6.50	DF-1	2⅝	3/16	1⅞	7/16	7/16	—	2⅛	4.06	1 13/16	8.5
36	P3614M40-SF	SF	6.316	6.206	6.81	DF-1	2⅞	3/16	2	5/16	7/16	—	2⅛	4.69	1 13/16	9.5
38	P3814M40-SF	SF	6.667	6.557	7.16	DF-1	2⅞	3/16	2	5/16	7/16	—	2⅛	4.94	1 13/16	11.5
40	P4014M40-SF	SF	7.018	6.909	7.50	DF-1	2⅞	3/16	2	5/16	7/16	—	2⅛	5.06	1 13/16	13.0
44	P4414M40-E	E	7.720	7.610	8.22	DF-1	3½	⅝	2⅝	⅛	¼	—	2⅛	6.12	1 13/16	16.5
48	P4814M40-E	E	8.421	8.311	8.94	DF-1	3½	⅝	2⅝	⅛	¼	—	2⅛	6.50	1 13/16	20.0
52	P5214M40-E	E	9.123	9.013	9.69	DF-1	3½	⅝	2⅝	⅛	¼	—	2⅛	7.18	1 13/16	24.0
56	P5614M40-E	E	9.825	9.715	10.38	DF-1	3½	⅝	2⅝	⅛	¼	—	2⅛	7.88	1 13/16	28.0
60	P6014M40-E	E	10.527	10.417	11.06	DF-1	3½	⅝	2⅝	⅛	¼	—	2⅛	8.50	1 13/16	32.0
64	P6414M40-E	E	11.229	11.119	11.75	DF-2	3½	⅝	2⅝	⅛	¼	—	2⅛	9.25	1 13/16	29.0
68	P6814M40-E	E	11.930	11.820	12.50	DF-2	3½	⅝	2⅝	⅛	¼	—	2⅛	10.00	1 13/16	31.0
72	P7214M40-E	E	12.632	12.522	13.19	DF-2	3½	⅝	2⅝	⅛	¼	—	2⅛	10.69	1 13/16	33.0
80	P8014M40-E	E	14.036	13.926	14.63	DF-2	3½	⅝	2⅝	⅛	¼	—	2⅛	12.13	1 13/16	38.0
90	P9014M40-E	E	15.790	15.680	—	D-3	3½	⅝	2⅝	⅛	¼	—	2⅛	14.00	—	39.0
112	P11214M40-E	E	19.650	19.540	—	D-3	3½	⅝	2⅝	⅛	¼	—	2⅛	17.80	—	51.0
144	P14414M40-E	E	25.264	25.154	—	D-3	3½	⅝	2⅝	⅛	¼	—	2⅛	23.38	—	80.0
Taper Bushed 40mm (1.570 in.) Wide Belts (140M-40)																
28	P2814M40-2012	2012	4.912	4.802	5.56	KF-1	2⅛	—	1¼	⅞	—	—	2⅛	3.375	1 13/16	3.5
29	P2914M40-2012	2012	5.088	4.978	5.56	KF-1	2⅛	—	1¼	⅞	—	—	2⅛	3.375	1 13/16	3.9
30	P3014M40-2012	2012	5.263	5.153	6.13	KF-1	2⅛	—	1¼	⅞	—	—	2⅛	3.928	1 13/16	6.4
32	P3214M40-2012	2012	5.614	5.504	6.13	KF-1	2⅛	—	1¼	⅞	—	—	2⅛	3.928	1 13/16	8.0
34	P3414M40-2012	2012	5.965	5.855	6.50	KF-1	2⅛	—	1¼	⅞	—	—	2⅛	4.063	1 13/16	9.4
36	P3614M40-2517	2517	6.316	6.206	6.81	KF-1	2 1/16	—	1¾	⅜	—	—	2⅛	4.688	1 13/16	10.5
38	P3814M40-2517	2517	6.667	6.557	7.16	KF-1	2 1/16	—	1¾	⅜	—	—	2⅛	4.813	1 13/16	12.2
40	P4014M40-2517	2517	7.018	6.908	7.50	KF-1	2 1/16	—	1¾	⅜	—	—	2⅛	5.188	1 13/16	14.2
44	P4414M40-2517	2517	7.720	7.610	8.22	KF-1	2 1/16	—	1¾	⅜	—	—	2⅛	6.125	1 13/16	17.6
48	P4814M40-2517	2517	8.421	8.311	8.94	KF-1	2 1/16	—	1¾	⅜	—	—	2⅛	6.500	1 13/16	22.0
52	P5214M40-2517	2517	9.123	9.013	9.69	KF-1	2 1/16	—	1¾	⅜	—	—	2⅛	7.188	1 13/16	26.5
56	P5614M40-2517	2517	9.825	9.715	10.38	WF-2	2 1/16	—	1¾	⅜	4⅞	—	2⅛	7.875	1 13/16	21.5
60	P6014M40-3020	3020	10.527	10.417	11.06	WF-2	3¼	—	2	⅛	6¼	—	2⅛	8.500	1 13/16	33.7
64	P6414M40-3020	3020	11.229	11.119	11.75	WF-2	3¼	—	2	⅛	6¼	—	2⅛	9.250	1 13/16	36.5
68	P6814M40-3020	3020	11.930	11.820	12.50	WF-2	3¼	—	2	⅛	6¼	—	2⅛	10.000	1 13/16	39.3
72	P7214M40-3020	3020	12.632	12.522	13.19	WF-2	3¼	—	2	⅛	6¼	—	2⅛	10.688	1 13/16	42.6
80	P8014M40-3020	3020	14.036	13.926	14.63	WF-3	3¼	—	2	⅛	6¼	—	2⅛	12.125	1 13/16	38.8
90	P9014M40-3020	3020	15.790	15.680	—	W-3	3¼	—	2	⅛	6¼	—	2⅛	13.563	—	44.5
112	P11214M40-3020	3020	19.650	19.540	—	W-3	3¼	—	2	⅛	6¼	—	2⅛	17.375	—	64.9
144	P14414M40-3020	3020	25.264	25.154	—	W-3	3¼	—	2	⅛	6¼	—	2⅛	23.000	—	97.4

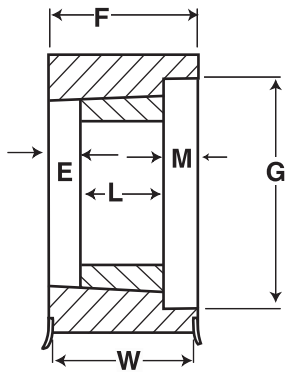
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

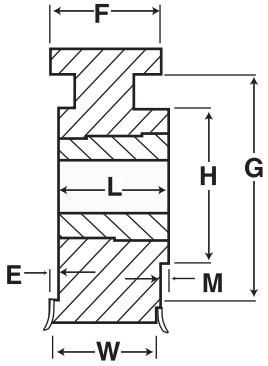
High Torque Sprockets 14mm

Type K



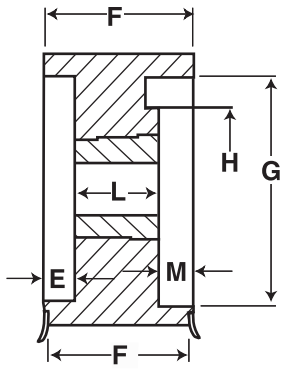
Type KF

Type B



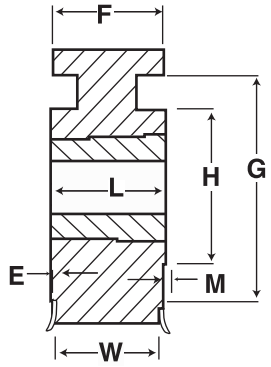
Type BF

Type W



Type WF

Type C



Type CF

No. of Teeth	Catalog Number	Bore	P.D.	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
QD 55mm (2.17 in.) Wide Belts (14M-55)																
28	P2814M55-SK	SK	4.912	4.808	5.56	• EF-1	2⅝	1½	1⅞	⅝	—	—	2¾	3.13	2⁷⁄₁₆	7.0
29	P2914M55-SK	SK	5.088	4.983	5.56	• EF-1	2⅝	1½	1⅞	⅝	—	—	2¾	3.13	2⁷⁄₁₆	8.0
30	P3014M55-SK	SK	5.263	5.157	6.13	AF-1	2⅝	⅛	1⅞	¾	¾	—	2¾	3.92	2⁷⁄₁₆	7.5
32	P3214M55-SK	SK	5.614	5.507	6.13	AF-1	2⅝	⅛	1⅞	¾	¾	—	2¾	3.92	2⁷⁄₁₆	9.0
34	P3414M55-SK	SK	5.965	5.858	6.50	AF-1	2⅝	⅛	1⅞	¾	¾	—	2¾	4.06	2⁷⁄₁₆	10.0
36	P3614M55-SF	SF	6.316	6.208	6.81	AF-1	2⅞	⅛	2	⅝	¾	—	2¾	4.69	2⁷⁄₁₆	11.0
38	P3814M55-SF	SF	6.667	6.559	7.16	AF-1	2⅞	⅛	2	⅝	¾	—	2¾	4.94	2⁷⁄₁₆	13.0
40	P4014M55-SF	SF	7.018	6.909	7.50	AF-1	2⅞	⅛	2	⅝	¾	—	2¾	5.06	2⁷⁄₁₆	15.0
44	P4414M55-E	E	7.720	7.610	8.22	DF-1	3½	⁵⁄₁₆	2⅝	⁷⁄₁₆	⁹⁄₁₆	—	2¾	6.12	2⁷⁄₁₆	19.0
48	P4814M55-E	E	8.421	8.311	8.94	DF-1	3½	⁵⁄₁₆	2⅝	⁷⁄₁₆	⁹⁄₁₆	—	2¾	6.50	2⁷⁄₁₆	23.0
52	P5214M55-E	E	9.123	9.013	9.69	DF-1	3½	⁵⁄₁₆	2⅝	⁷⁄₁₆	⁹⁄₁₆	—	2¾	7.18	2⁷⁄₁₆	27.0
56	P5614M55-E	E	9.825	9.715	10.38	DF-1	3½	⁵⁄₁₆	2⅝	⁷⁄₁₆	⁹⁄₁₆	—	2¾	7.88	2⁷⁄₁₆	32.0
60	P6014M55-E	E	10.527	10.417	11.06	DF-1	3½	⁵⁄₁₆	2⅝	⁷⁄₁₆	⁹⁄₁₆	—	2¾	8.50	2⁷⁄₁₆	36.0
64	P6414M55-F	F	11.229	11.119	11.75	CF-1	4	⅞	3⅝	0	⅛	—	2¾	9.25	2⁷⁄₁₆	53.0
68	P6814M55-F	F	11.930	11.820	12.50	DF-2	4	⅞	3⅝	0	⅛	—	2¾	10.00	2⁷⁄₁₆	43.0
72	P7214M55-F	F	12.632	12.522	13.19	CF-2	4	⅞	3⅝	0	⅛	—	2¾	10.69	2⁷⁄₁₆	49.0
80	P8014M55-F	F	14.036	13.926	14.63	CF-2	4	⅞	3⅝	0	⅛	—	2¾	12.13	2⁷⁄₁₆	54.0
90	P9014M55-F	F	15.790	15.680	—	C-3	4	⅞	3⅝	0	⅛	—	2¾	14.00	—	55.0
112	P11214M55-F	F	19.650	19.540	—	C-3	4	⅞	3⅝	0	⅛	—	2¾	17.88	—	71.0
144	P14414M55-F	F	25.264	25.154	—	C-3	4	⅞	3⅝	0	⅛	—	2¾	23.38	—	106.0
168	P16814M55-F	F	29.475	29.365	—	C-3	4	⅞	3⅝	0	⅛	—	2¾	27.56	—	124.0
192	P19214M55-F	F	33.686	33.576	—	C-3	4	⅞	3⅝	0	⅛	—	2¾	31.81	—	146.0
216	P21614M55-F	F	37.896	37.786	—	C-3	4	⅞	3⅝	0	⅛	—	2¾	35.75	—	205.0
Taper Bushed 55mm (2.17 in.) Wide Belts (14M-55)																
28	P2814M55-2012	2012	4.912	4.802	5.56	KF-1	2⅛	—	1¼	1½	—	—	2¾	3.375	2⁷⁄₁₆	7.4
29	P2914M55-2012	2012	5.088	4.978	5.56	KF-1	2⅛	—	1¼	1½	—	—	2¾	3.375	2⁷⁄₁₆	8.4
30	P3014M55-2517	2517	5.263	5.153	6.13	KF-1	2¹¹⁄₁₆	—	1¾	1	—	—	2¾	3.928	2⁷⁄₁₆	7.2
32	P3214M55-2517	2517	5.614	5.504	6.13	KF-1	2¹¹⁄₁₆	—	1¾	1	—	—	2¾	3.928	2⁷⁄₁₆	9.3
34	P3414M55-2517	2517	5.965	5.855	6.50	KF-1	2¹¹⁄₁₆	—	1¾	1	—	—	2¾	4.063	2⁷⁄₁₆	11.2
36	P3614M55-2517	2517	6.316	6.206	6.81	KF-1	2¹¹⁄₁₆	—	1¾	1	—	—	2¾	4.688	2⁷⁄₁₆	12.4
38	P3814M55-2517	2517	6.667	6.557	7.16	KF-1	2¹¹⁄₁₆	—	1¾	1	—	—	2¾	4.813	2⁷⁄₁₆	14.4
40	P4014M55-2517	2517	7.018	6.908	7.50	KF-1	2¹¹⁄₁₆	—	1¾	1	—	—	2¾	5.188	2⁷⁄₁₆	16.7
44	P4414M55-2517	2517	7.720	7.610	8.22	KF-1	2¹¹⁄₁₆	—	1¾	1	—	—	2¾	6.125	2⁷⁄₁₆	19.9
48	P4814M55-3020	3020	8.421	8.311	8.94	KF-1	3¼	—	2	¾	—	—	2¾	6.500	2⁷⁄₁₆	29.2
52	P5214M55-3020	3020	9.123	9.013	9.69	KF-1	3¼	—	2	¾	—	—	2¾	7.188	2⁷⁄₁₆	34.5
56	P5614M55-3020	3020	9.825	9.715	10.38	KF-1	3¼	—	2	¾	—	—	2¾	7.875	2⁷⁄₁₆	40.1
60	P6014M55-3020	3020	10.527	10.417	11.06	WF-2	3¼	—	2	¾	—	6¼	2¾	8.500	2⁷⁄₁₆	46.4
64	P6414M55-3020	3020	11.229	11.119	11.75	WF-2	3¼	—	2	¾	—	6¼	2¾	9.250	2⁷⁄₁₆	52.7
68	P6814M55-3020	3020	11.930	11.820	12.50	WF-2	3¼	—	2	¾	—	6¼	2¾	10.000	2⁷⁄₁₆	45.5
72	P7214M55-3020	3020	12.632	12.522	13.19	WF-2	3¼	—	2	¾	—	6¼	2¾	10.688	2⁷⁄₁₆	49.5
80	P8014M55-3020	3020	14.036	13.926	14.63	WF-3	3¼	—	2	¾	—	6¼	2¾	12.125	2⁷⁄₁₆	45.2
90	P9014M55-3020	3020	15.790	15.680	—	W-3	3¼	—	2	¾	—	6¼	2¾	13.563	—	46.1
112	P11214M55-3020	3020	19.650	19.540	—	W-3	3¼	—	2	¾	—	6¼	2¾	17.375	—	69.8
144	P14414M55-3020	3020	25.264	25.154	—	W-3	3¼	—	2	¾	—	6¼	2¾	23.000	—	104.4
192	P19214M55-3535	3535	33.686	33.576	—	C-3	3¹⁵⁄₁₆	0.38	3½	⅜	—	7	2¾	31.375	—	104.2

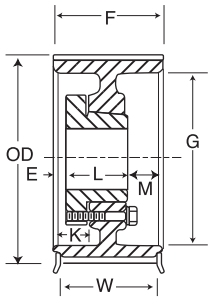
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

\+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

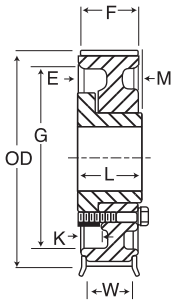
High Torque Sprockets 14mm

Type A



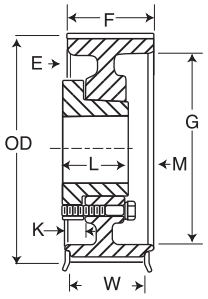
Type AF

Type C



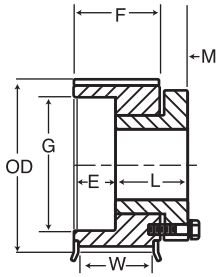
Type CF

Type D



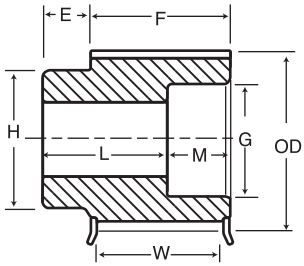
Type DF

Type E•



Type EF•

Type D (MPB Only)



Type DF (MPB Only)

No. of Teeth	Catalog Number	Bore	P.D.	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 85mm (3.35in.) Wide Belts (14M-85)																
28	P2814M85-MPB	1¼	4.912	4.802	5.56	DF-1	2 5/16	1	4	1	—	3 1/16	4	3.13	3 1/16	18.0
29	P2914M85-MPB	1¼	5.088	4.983	5.56	DF-1	2 5/16	1	4	1	—	3 1/16	4	3.13	3 1/16	19.4
30	P3014M85-MPB	1¼	5.263	5.157	6.13	DF-1	2½	1	4	1	—	4 9/64	4	3.72	3 1/16	20.6
32	P3214M85-MPB	1¼	5.614	5.507	6.13	DF-1	2½	1	4	1	—	4 9/64	4	3.72	3 1/16	23.4
34	P3414M85-MPB	1¼	5.965	5.858	6.50	DF-1	2 1/16	1	4	1	—	4 31/64	4	4.06	3 1/16	27.4
QD 85mm (3.35in.) Wide Belts (14M-85)																
30	P3014M85-SK	SK	5.293	5.157	6.13	AF-1	2⅝	¾	1⅞	1⅜	1⅜	—	4	3.92	3 1/16	10.0
32	P3214M85-SK	SK	5.614	5.507	6.13	AF-1	2⅞	¾	1⅞	1⅜	1⅜	—	4	3.92	3 1/16	13.0
34	P3414M85-SK	SK	5.965	5.853	6.13	AF-1	2⅞	¾	1⅞	1⅜	1⅜	—	4	4.06	3 1/16	14.0
36	P3614M85-SF	SF	6.316	6.206	6.81	AF-1	2⅞	¾	2	1¼	1⅜	—	4	4.69	3 1/16	15.0
38	P3814M85-SF	SF	6.667	6.557	7.16	AF-1	2⅞	¾	2	1¼	1⅜	—	4	4.94	3 1/16	18.0
40	P4014M85-SF	SF	7.018	6.909	7.50	AF-1	2⅞	¾	2	1¼	1⅜	—	4	5.06	3 1/16	20.0
44	P4414M85-E	E	7.720	7.610	8.22	AF-1	3½	5/16	2⅝	11/16	13/16	—	4	6.12	3 1/16	25.0
48	P4814M85-E	E	8.421	8.311	8.94	AF-1	3½	5/16	2⅝	11/16	13/16	—	4	6.50	3 1/16	29.0
52	P5214M85-E	E	9.123	9.013	9.69	AF-1	3½	5/16	2⅝	11/16	13/16	—	4	7.18	3 1/16	32.0
56	P5614M85-F	F	9.825	9.715	10.38	DF-1	4	¼	3⅜	⅝	¾	—	4	7.88	3 1/16	46.0
60	P6014M85-F	F	10.527	10.417	11.06	DF-1	4	¼	3⅜	⅝	¾	—	4	8.50	3 1/16	51.0
64	P6414M85-F	F	11.229	11.119	11.75	DF-1	4	¼	3⅜	⅝	¾	—	4	9.25	3 1/16	62.0
68	P6814M85-F	F	11.930	11.820	12.50	DF-2	4	¼	3⅜	⅝	¾	—	4	10.00	3 1/16	51.0
72	P7214M85-F	F	12.632	12.522	13.19	DF-2	4	¼	3⅜	⅝	¾	—	4	10.69	3 1/16	60.0
80	P8014M85-F	F	14.036	13.926	14.63	DF-2	4	¼	3⅜	⅝	¾	—	4	12.13	3 1/16	66.0
90	P9014M85-F	F	15.790	15.680	—	D-3	4	¼	3⅜	⅝	¾	—	4	14.00	—	69.0
112	P11214M85-F	F	19.650	19.540	—	D-3	4	¼	3⅜	⅝	¾	—	4	17.88	—	89.0
144	P14414M85-F	F	25.264	25.154	—	D-3	4	¼	3⅜	⅝	¾	—	4	23.38	—	127.0
168	P16814M85-J	J	29.475	29.365	—	D-3	4½	¼	3⅜	⅝	¾	—	4	27.56	—	148.0
192	P19214M85-J	J	33.686	33.576	—	D-3	4½	¼	3⅜	⅝	¾	—	4	31.81	—	177.0
216	P21614M85-J	J	37.896	37.786	—	D-3	4½	¼	3⅜	⅝	¾	—	4	35.75	—	251.0
Taper Bushed 85mm (3.35in.) Wide Belts (14M-85)																
30	P3014M85-2517	2517	5.263	5.153	6.13	WF-1	2½	½	1¾	1¾	—	—	4	3.928	3 1/16	9.7
32	P3214M85-2517	2517	5.614	5.504	6.13	WF-1	2 1/16	⅞	1¾	1⅜	—	—	4	3.928	3 1/16	12.7
34	P3414M85-2517	2517	5.965	5.855	6.50	WF-1	2 1/16	⅞	1¾	1⅜	—	—	4	4.063	3 1/16	15.3
36	P3614M85-3020	3020	6.316	6.206	6.81	WF-1	3¼	17/32	2	1 15/32	—	—	4	4.688	3 1/16	19.3
38	P3814M85-3020	3020	6.667	6.557	7.16	WF-1	3¼	17/32	2	1 15/32	—	—	4	4.813	3 1/16	21.9
40	P4014M85-3020	3020	7.018	6.908	7.50	WF-1	3¼	17/32	2	1 15/32	—	—	4	5.063	3 1/16	25.1
44	P4414M85-3020	3020	7.720	7.610	8.22	WF-1	3¼	17/32	2	1 15/32	—	—	4	6.125	3 1/16	28.4
48	P4814M85-3020	3020	8.421	8.311	8.94	WF-1	3¼	17/32	2	1 15/32	—	—	4	6.500	3 1/16	35.4
52	P5214M85-3535	3535	9.123	9.013	9.69	KF-1	3 15/16	—	3½	½	—	—	4	7.188	3 1/16	42.9
56	P5614M85-3535	3535	9.825	9.715	10.38	KF-1	3 15/16	—	3½	½	—	—	4	7.875	3 1/16	52.4
60	P6014M85-3535	3535	10.527	10.417	11.06	KF-1	3 15/16	—	3½	½	—	—	4	8.500	3 1/16	62.7
64	P6414M85-3535	3535	11.229	11.119	11.75	KF-1	3 15/16	—	3½	½	—	—	4	9.250	3 1/16	73.6
68	P6814M85-3535	3535	11.930	11.820	12.50	KF-1	3 15/16	—	3½	½	—	—	4	10.000	3 1/16	64.2
72	P7214M85-3535	3535	12.632	12.522	13.19	KF-1	3 15/16	—	3½	½	—	—	4	10.688	3 1/16	97.4
80	P8014M85-3535	3535	14.036	13.926	14.63	WF-2	3 15/16	—	3½	½	—	—	4	12.125	3 1/16	68.4
90	P9014M85-3535	3535	15.790	15.680	—	W-3	3 15/16	—	3½	½	—	7	4	13.563	—	69.1
112	P11214M85-3535	3535	19.650	19.540	—	W-3	3 15/16	—	3½	½	—	7	4	17.375	—	85.7
144	P14414M85-4040	4040	25.264	25.154	—	W-3	4 7/16	—	4	—	—	8½	4	23.000	—	131.6
168	P16814M85-4040	4040	29.475	29.365	—	W-3	4 7/16	—	4	—	—	8½	4	27.250	—	146.1
192	P19214M85-4040	4040	33.686	33.576	—	W-3	4 7/16	—	4	—	—	8½	4	31.375	—	161.4

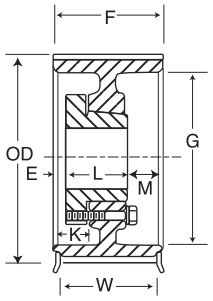
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

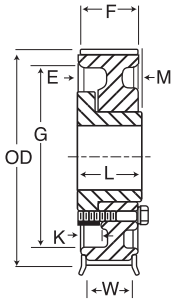
High Torque Sprockets 14mm

Type A



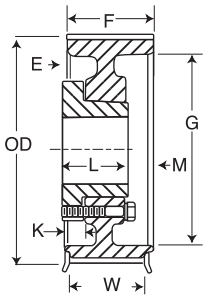
Type AF

Type C



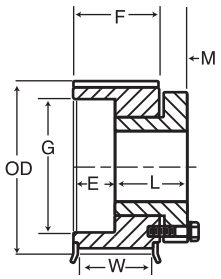
Type CF

Type D



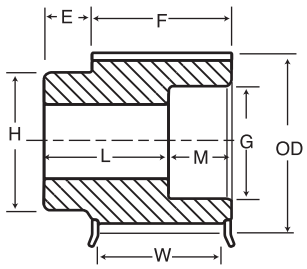
Type DF

Type E•



Type EF•

Type D (MPB Only)



Type DF (MPB Only)

No. of Teeth	Catalog Number	Bore	P.D.	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 115mm (4.53 in.) Wide Belts (14M-115)																
28	P2814M115-MPB	1¼	4.912	4.808	5.56	DF-1	2 5/16	1¼	5	1½	—	3 11/16	5¼	3.13	4 15/16	23.2
29	P2914M115-MPB	1¼	5.088	4.983	5.56	DF-1	2 5/16	1¼	5	1½	—	3 11/16	5¼	3.13	4 15/16	24.8
30	P3014M115-MPB	1¼	5.263	5.157	6.13	DF-1	2½	1¼	5	1½	—	4 9/64	5¼	3.90	4 15/16	26.4
32	P3214M115-MPB	1¼	5.614	5.507	6.13	DF-1	2½	1¼	5	1½	—	4 9/64	5¼	3.90	4 15/16	30.8
34	P3414M115-MPB	1¼	5.965	5.858	6.50	DF-1	2 11/16	1¼	5	1½	—	4 31/64	5¼	4.06	4 15/16	35.2
36	P3614M115-MPB	1¼	6.316	6.208	6.81	DF-1	3	1¼	5	1½	—	4⅞	5¼	4.69	4 15/16	38.8
38	P3814M115-MPB	1¼	6.667	6.559	7.16	DF-1	3¼	1¼	5	1½	—	5 11/64	5¼	4.94	4 15/16	44.4
40	P4014M115-MPB	1¼	7.018	6.909	7.50	DF-1	3 7/16	1¼	5	1½	—	5 5/16	5¼	5.06	4 15/16	50.0
QD 115mm (4.53 in.) Wide Belts (14M-115)																
30	P3014M115-SK	1¼	5.263	5.157	6.13	AF-1	2⅞	1⅜	1⅞	2	2	—	5¼	3.92	4 15/16	12.0
32	P3214M115-SK	1¼	5.614	5.507	6.13	AF-1	2⅞	1⅜	1⅞	2	2	—	5¼	3.92	4 15/16	16.0
34	P3414M115-SK	1¼	5.965	5.858	6.50	AF-1	2⅞	1⅜	1⅞	2	2	—	5¼	4.06	4 15/16	17.0
36	P3614M115-SF	1¼	6.316	6.208	6.81	AF-1	3	1⅜	2	1⅞	2	—	5¼	4.69	4 15/16	18.0
38	P3814M115-SF	1¼	6.667	6.559	7.16	AF-1	3	1⅜	2	1⅞	2	—	5¼	4.94	4 15/16	22.0
40	P4014M115-SF	1¼	7.018	6.909	7.50	AF-1	3	1⅜	2	1⅞	2	—	5¼	5.06	4 15/16	25.0
44	P4414M115-E	E	7.720	7.610	8.22	AF-1	3½	15/16	2⅝	1 11/16	1 13/16	—	5¼	6.12	4 15/16	30.0
48	P4814M115-E	E	8.421	8.311	8.94	AF-1	3½	15/16	2⅝	1 11/16	1 13/16	—	5¼	6.50	4 15/16	35.0
52	P5214M115-F	F	9.123	9.013	9.69	AF-1	4	⅜	3⅜	1¼	1⅜	—	5¼	7.18	4 15/16	42.0
56	P5614M115-F	F	9.825	9.715	10.38	AF-1	4	⅜	3⅜	1¼	1⅜	—	5¼	7.88	4 15/16	53.0
60	P6014M115-F	F	10.527	10.417	11.06	AF-1	4½	⅜	3⅜	1¼	1⅜	—	5¼	8.50	4 15/16	60.0
64	P6414M115-J	J	11.229	11.119	11.75	DF-1	4½	3/16	4½	15/16	1	—	5¼	9.25	4 15/16	76.0
68	P6814M115-J	J	11.930	11.820	12.50	DF-1	4½	3/16	4½	15/16	1	—	5¼	10.00	4 15/16	83.0
72	P7214M115-J	J	12.632	12.522	13.19	DF-1	4½	3/16	4½	15/16	1	—	5¼	10.69	4 15/16	99.0
80	P8014M115-J	J	14.036	13.926	14.63	DF-2	4½	3/16	4½	15/16	1	—	5¼	12.13	4 15/16	87.0
90	P9014M115-J	J	15.790	15.680	—	D-2	4½	3/16	4½	15/16	1	—	5¼	14.00	—	95.0
112	P11214M115-J	J	19.650	19.540	—	D-3	4½	3/16	4½	15/16	1	—	5¼	17.88	—	114.0
144	P14414M115-J	J	25.264	25.154	—	D-3	4½	3/16	4½	15/16	1	—	5¼	23.38	—	166.0
168	P16814M115-M	M	29.475	29.365	—	D-3	5½	3/16	4½	15/16	1	—	5¼	27.56	—	198.0
192	P19214M115-M	M	33.686	33.576	—	D-3	5½	3/16	4½	15/16	1	—	5¼	31.81	—	232.0
216	P21614M115-M	M	37.896	37.786	—	D-3	5½	3/16	4½	15/16	1	—	5¼	35.75	—	307.0
Taper Bushed 115mm (4.53 in.) Wide Belts (14M-115)																
30	P3014M115-2517	2517	5.263	5.153	6.13	WF-1	2 11/16	1¾	1¾	1¾	—	—	5¼	3.928	4 15/16	13.5
32	P3214M115-2517	2517	5.614	5.504	6.13	WF-1	2 11/16	1¾	1¾	1¾	—	—	5¼	3.928	4 11/16	17.3
34	P3414M115-2517	2517	5.965	5.855	6.50	WF-1	2 11/16	1¾	1¾	1¾	—	—	5¼	4.063	4 11/16	20.9
36	P3614M115-3020	3020	6.316	6.206	6.81	WF-1	3¼	1⅝	2	1⅝	—	—	5¼	4.688	4 11/16	18.6
38	P3814M115-3020	3020	6.667	6.557	7.16	WF-1	3¼	1⅝	2	1⅝	—	—	5¼	4.813	4 11/16	22.5
40	P4014M115-3020	3020	7.018	6.908	7.50	WF-1	3¼	1⅝	2	1⅝	—	—	5¼	5.063	4 11/16	26.8
44	P4414M115-3535	3535	7.720	7.610	8.22	WF-1	3 15/16	⅞	3½	⅞	—	—	5¼	6.125	4 11/16	30.8
48	P4814M115-3535	3535	8.421	8.311	8.94	WF-1	3 15/16	⅞	3½	⅞	—	—	5¼	6.500	4 11/16	41.1
52	P5214M115-4040	4040	9.123	9.013	9.69	WF-1	4 7/16	⅝	4	⅝	—	—	5¼	7.188	4 11/16	46.9
56	P5614M115-4040	4040	9.825	9.715	10.38	WF-1	4 7/16	⅝	4	⅝	—	—	5¼	7.875	4 11/16	58.3
60	P6014M115-4040	4040	10.527	10.417	11.06	WF-1	4 7/16	⅝	4	⅝	—	—	5¼	8.500	4 11/16	70.9
64	P6414M115-4545	4545	11.229	11.119	11.75	WF-1	4 15/16	⅜	4½	⅜	—	—	5¼	9.250	4 11/16	82.1
68	P6814M115-4545	4545	11.930	11.820	12.50	WF-1	4 15/16	⅜	4½	⅜	—	—	5¼	10.000	4 11/16	97.1
72	P7214M115-4545	4545	12.632	12.522	13.19	WF-1	4 15/16	⅜	4½	⅜	—	—	5¼	10.688	4 11/16	113.3
80	P8014M115-4545	4545	14.036	13.926	14.63	WF-2	4 15/16	⅜	4½	⅜	9½	—	5¼	12.125	4 11/16	108.9
90	P9014M115-4545	4545	15.790	15.680	—	W-2	4 15/16	⅜	4½	⅜	9½	—	5¼	13.563	—	112.9
112	P11214M115-4545	4545	19.650	19.540	—	W-3	4 15/16	⅜	4½	⅜	9½	—	5¼	17.375	—	122.4
144	P14414M115-4545	4545	25.264	25.154	—	W-3	4 15/16	⅜	4½	⅜	9½	—	5¼	23.000	—	155.0
168	P16814M115-4545	4545	29.475	29.365	—	W-3	4 15/16	⅜	4½	⅜	9½	—	5¼	27.250	—	188.0
192	P19214M115-4545	4545	33.686	33.576	—	W-3	4 15/16	⅜	4½	⅜	9½	—	5¼	31.375	—	318.8
216	P21614M115-6050	6050	37.896	37.786	—	W-3	6	—	5	¼	15½	—	5¼	35.625	—	350.3

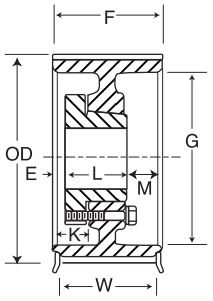
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

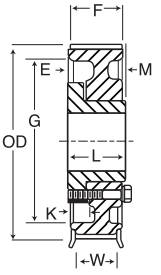
High Torque Sprockets 14mm

Type A



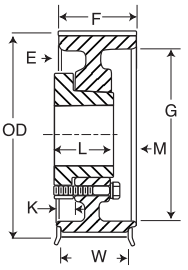
Type AF

Type C



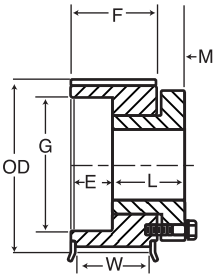
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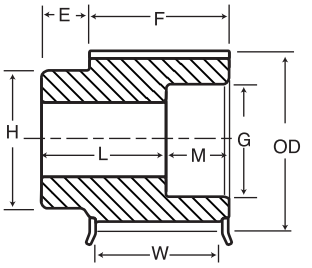
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Type E•



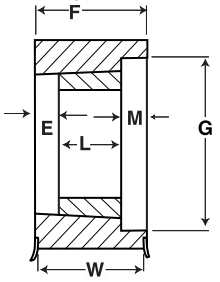
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Type D (MPB Only)



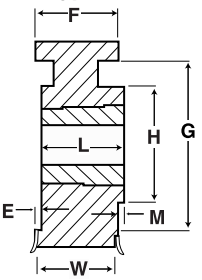
Type DF (MPB Only)

Type K



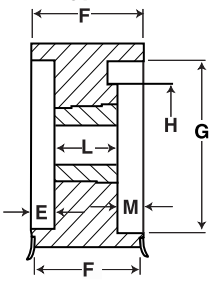
Type KF

Type B



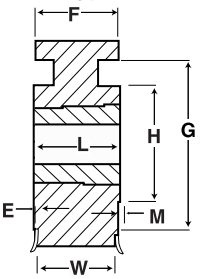
Type BF

Type W



Type WF

Type C



Type CF

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 170mm (6.69 in.) Wide Belts (14M-170)																
36	P3614M170-MPB	1½	6.316	6.208	6.81	DF-1	3	1¼	6	2⅝	—	4⅞	7⅜	4.69	7 1/16	47.0
38	P3814M170-MPB	1½	6.667	6.559	7.16	DF-1	3¼	1¼	6	2⅝	—	5 11/64	7⅜	4.94	7 1/16	55.7
40	P4014M170-MPB	1½	7.018	6.909	7.50	DF-1	3 7/16	1¼	6	2⅝	—	5 9/16	7⅜	5.06	7 1/16	63.7
44	P4414M170-MPB	1½	7.720	7.610	8.22	DF-1	4⅜	1¼	6	2⅝	—	6 41/64	7⅜	6.13	7 1/16	75.7
48	P4814M170-MPB	1½	8.421	8.311	8.94	DF-1	4½	1¼	6	2⅝	—	6 15/16	7⅜	6.50	7 1/16	94.0
QD 170mm (6.69 in.) Wide Belts (14M-170)																
44	P4414M170-E	E	7.720	7.610	8.22	AF-1	3⅝	2	2⅝	2¾	2⅞	—	7⅜	6.12	7 1/16	38.0
48	P4814M170-E	E	8.421	8.311	8.94	AF-1	3⅝	2	2⅝	2¾	2 7/16	—	7⅜	6.50	7 1/16	45.0
52	P5214M170-F	F	9.123	9.013	9.69	AF-1	4	1 7/16	3⅝	2 5/16	2 7/16	—	7⅜	7.18	7 1/16	52.0
56	P5614M170-F	F	9.825	9.715	10.38	AF-1	4	1 7/16	3⅝	2 5/16	2⅛	—	7⅜	7.88	7 1/16	65.0
60	P6014M170-J	J	10.527	10.417	11.06	AF-1	4½	15/16	4½	1 15/16	2⅛	—	7⅜	8.50	7 1/16	75.0
64	P6414M170-J	J	11.229	11.119	11.75	AF-1	4½	15/16	4½	1 15/16	2⅛	—	7⅜	9.25	7 1/16	91.0
68	P6814M170-J	J	11.930	11.820	12.50	AF-1	4½	15/16	4½	1 15/16	2⅛	—	7⅜	10.00	7 1/16	96.0
72	P7214M170-J	J	12.632	12.522	13.19	AF-1	4½	15/16	4½	1 15/16	2⅛	—	7⅜	10.69	7 1/16	115.0
80	P8014M170-J	J	14.036	13.926	14.63	AF-2	4½	15/16	4½	1 15/16	2⅛	—	7⅜	12.13	7 1/16	107.0
90	P9014M170-J	J	15.790	15.680	—	A-2	4½	15/16	4½	1 15/16	2⅛	—	7⅜	14.00	—	116.0
112	P11214M170-M	M	19.650	19.540	—	A-3	5½	—	6¾	⅝	1 7/16	—	7⅜	17.88	—	175.0
144	P14414M170-M	M	25.264	25.154	—	A-3	5½	—	6¾	⅝	1 7/16	—	7⅜	23.38	—	240.0
168	P16814M170-M	M	29.475	29.365	—	A-3	5½	—	6¾	⅝	1 7/16	—	7⅜	27.56	—	278.0
192	P19214M170-M	M	33.686	33.576	—	A-3	5½	—	6¾	⅝	1 7/16	—	7⅜	31.81	—	322.0
216	P21614M170-M	M	37.896	37.786	—	A-3	5½	—	6¾	⅝	1 7/16	—	7⅜	35.75		399.0
Taper Bushed 170mm (6.69 in.) Wide Belts (14M-170)																
44	P4414M170-3535	3535	7.720	7.610	8.22	WF-1	3 15/16	1 15/16	3½	1 15/16	—	—	7⅜	6.13	7 1/16	39.7
48	P4814M170-3535	3535	8.421	8.311	8.94	WF-1	3 15/16	1 15/16	3½	1 15/16	—	—	7⅜	6.50	7 1/16	52.8
52	P5214M170-4040	4040	9.123	9.013	9.69	WF-1	4 7/16	1 11/16	4	1 11/16	—	—	7⅜	7.19	7 1/16	59.8
56	P5614M170-4040	4040	9.825	9.715	10.38	WF-1	4 7/16	1 11/16	4	1 11/16	—	—	7⅜	7.88	7 1/16	72.4
60	P6014M170-4545	4545	10.527	10.417	11.06	WF-1	4 15/16	1 7/16	4½	1 7/16	—	—	7⅜	8.50	7 1/16	83.7
64	P6414M170-4545	4545	11.229	11.119	11.75	WF-1	4 15/16	1 7/16	4½	1 7/16	—	—	7⅜	9.25	7 1/16	98.6
68	P6814M170-4545	4545	11.930	11.820	12.50	WF-1	4 15/16	1 7/16	4½	1 7/16	—	—	7⅜	10.00	7 1/16	114.4
72	P7214M170-4545	4545	12.632	12.522	13.19	WF-1	4 15/16	1 7/16	4½	1 7/16	—	—	7⅜	10.69	7 1/16	131.8
80	P8014M170-4545	4545	14.036	13.926	14.63	WF-2	4 15/16	1 7/16	4½	1 7/16	—	9½	7⅜	12.13	7 1/16	129.3
90	P9014M170-4545	4545	15.790	15.680	—	W-2	4 15/16	1 7/16	4½	1 7/16	—	9½	7⅜	13.56	—	126.8
112	P11214M170-4545	4545	19.650	19.540	—	W-3	4 15/16	1 7/16	4½	1 3/16	—	9½	7⅜	17.38	—	148.0
144	P14414M170-6050	6050	25.264	25.154	—	W-3	6	1 3/16	5	1 3/16	—	15½	7⅜	23.00	—	208.0
168	P16814M170-6050	6050	29.475	29.365	—	W-3	6	1 3/16	5	1 3/16	—	15½	7⅜	27.25	—	227.0
192	P19214M170-6050	6050	33.686	33.576	—	W-3	6	1 3/16	5	1 3/16	—	15½	7⅜	31.38	—	340.0
216	P21614M170-6050	6050	37.896	37.786	—	W-3	6	1 3/16	5	1 3/16	—	15½	7⅜	35.63	—	390.0

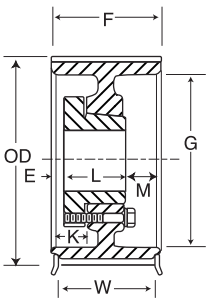
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

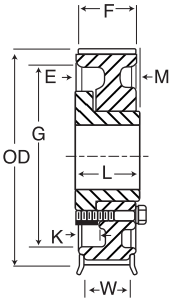
High Torque Sprockets 20mm

Type A



Type AF

Type C



Type CF

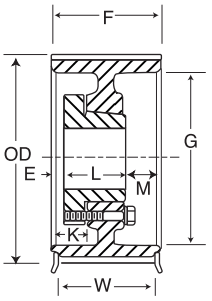
QD 115mm (4.53 in.) Wide Belts (20M-115)																
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.)		Type +	Max. Bore	Dimensions (in.)								Weight* Approx. (lbs)
				O.D.	Flange			E	L	M	K	H	F	G	W	
34	P3420M115-F	F	8.522	8.352	9.449	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	6.88	5.0	32.0
36	P3620M115-F	F	9.023	8.853	9.843	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	7.00	5.0	40.0
38	P3820M115-F	F	9.524	9.354	10.433	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	7.56	5.0	45.0
40	P4020M115-F	F	10.026	9.856	10.827	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	8.00	5.0	51.0
44	P4420M115-F	F	11.028	10.858	11.811	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	8.93	5.0	63.0
48	P4820M115-J	J	12.031	11.861	12.795	AF-1	4.50	0.00	4.50	0.88	1.18	—	5.38	9.93	5.0	84.0
52	P5220M115-J	J	13.033	12.863	13.764	AF-2	4.50	0.00	4.50	0.88	1.18	—	5.38	10.88	5.0	80.0
56	P5620M115-J	J	14.036	13.866	14.764	AF-2	4.50	0.00	4.50	0.88	1.18	—	5.38	11.88	5.0	87.0
60	P6020M115-J	J	15.038	14.868	15.927	AF-2	4.50	0.00	4.50	0.88	1.18	—	5.38	13.06	5.0	94.0
64	P6420M115-J	J	16.041	15.871	16.929	AF-2	4.50	0.00	4.50	0.88	1.18	—	5.38	14.06	5.0	104.0
68	P6820M115-J	J	17.044	16.874	17.927	AF-2	4.50	0.00	4.50	0.88	1.18	—	5.38	15.00	5.0	110.0
72	P7220M115-J	J	18.046	17.876	18.898	AF-2	4.50	0.00	4.50	0.88	1.18	—	5.38	16.00	5.0	119.0
80	P8020M115-M	M	20.051	19.881	20.866	CF-2	5.50	1.25	6.75	0.12	0.18	—	5.38	18.00	5.0	182.0
90	P9020M115-M	M	22.558	22.388	23.425	CF-2	5.50	1.25	6.75	0.12	0.18	—	5.38	20.56	5.0	212.0
112	P11220M115-M	M	28.072	27.902	—	C-3	5.50	1.25	6.75	0.12	0.18	—	5.38	26.38	—	239.0
144	P14420M115-N	N	36.092	35.922	—	C-3	5.87	1.75	8.12	1.00	0.00	—	5.38	34.38	—	341.0
168	P16820M115-N	N	42.108	41.938	—	C-3	5.87	1.75	8.12	1.00	0.00	—	5.38	40.38	—	417.0
192	P19220M115-N	N	48.123	47.953	—	C-3	5.87	1.75	8.12	1.00	0.00	—	5.38	46.25	—	500.0
216	P21620M115-N	N	54.138	53.968	—	C-3	5.77	1.75	8.12	1.00	0.00	—	5.38	52.25	—	566.0

* Weight Shown is for Sprocket less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

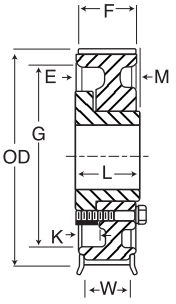
High Torque Sprockets 20mm

Type A



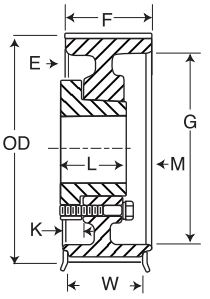
Type AF

Type C



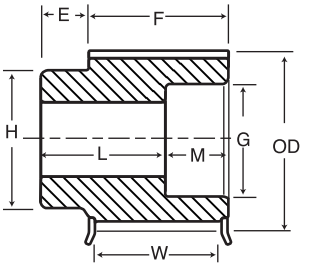
Type CF

Type D



Type DF

Type D (MPB Only)



Type DF (MPB Only)

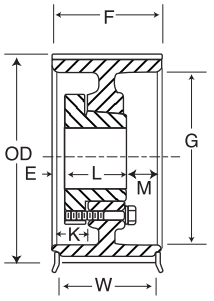
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
QD 170mm (6.69 in.) Wide Belts (20M-170)																
34	P3420M170-MPB	2⅛	8.522	8.352	9.449	DF-1	4.38	1.25	6.50	2.25	—	6.50	7.50	6.50	7.12	82.0
36	P3620M170-MPB	2⅛	9.023	8.853	9.843	DF-1	4.50	1.25	6.50	2.25	—	7.00	7.50	7.00	7.12	93.0
MPB 170mm (6.69 in.) Wide Belts (20M-170)																
38	P3820M170-J	J	9.524	9.354	10.433	AF-1	4.50	1.00	4.50	2.00	2.18	—	7.50	7.56	7.12	56.0
40	P4020M170-J	J	10.026	9.856	10.827	AF-1	4.50	1.00	4.50	2.00	2.18	—	7.50	8.00	7.12	64.0
44	P4420M170-J	J	11.028	10.858	11.811	AF-1	4.50	1.00	4.50	2.00	2.18	—	7.50	8.93	7.12	81.0
48	P4820M170-M	M	12.031	11.861	12.795	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	9.93	7.12	113.0
52	P5220M170-M	M	13.033	12.863	13.764	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	10.88	7.12	141.0
56	P5620M170-M	M	14.036	13.866	14.764	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	11.88	7.12	170.0
60	P6020M170-M	M	15.038	14.868	15.927	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	13.06	7.12	199.0
64	P6420M170-M	M	16.041	15.871	16.929	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	14.06	7.12	175.0
68	P6820M170-M	M	17.044	16.874	17.927	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	15.00	7.12	187.0
72	P7220M170-M	M	18.046	17.876	18.898	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	16.00	7.12	196.0
80	P8020M170-M	M	20.051	19.881	20.866	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	18.00	7.12	214.0
90	P9020M170-M	M	22.558	22.388	23.425	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	20.56	7.12	250.0
112	P11220M170-N	N	28.072	27.902	—	C-3	5.87	0.50	8.12	0.12	1.25	—	7.50	26.25	7.12	309.0
144	P14420M170-N	N	36.092	35.922	—	C-3	5.87	0.50	8.12	0.12	1.25	—	7.50	34.25	—	426.0
168	P16820M170-P	P	42.108	41.938	—	C-3	7.00	0.90	9.38	0.94	1.06	—	7.50	40.25	—	571.0
192	P19220M170-P	P	48.123	47.953	—	C-3	7.00	0.94	9.38	0.94	1.06	—	7.50	46.25	—	652.0
216	P21620M170-P	P	54.138	53.968	—	C-3	7.00	0.94	9.38	0.94	1.06	—	7.50	52.12	—	813.0

* Weight Shown is for Sprocket less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

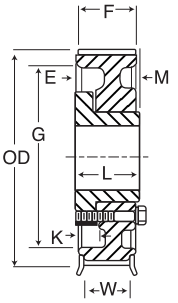
High Torque Sprockets 20mm

Type A



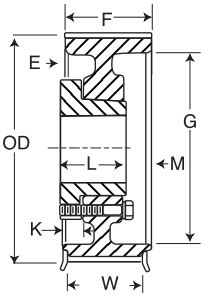
Type AF

Type C



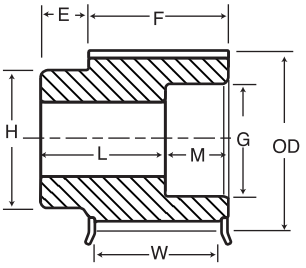
Type CF

Type D



Type DF

Type D (MPB Only)



Type DF (MPB Only)

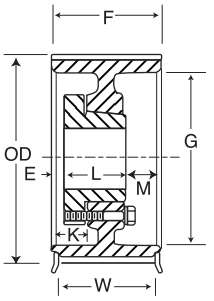
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
MPB 230mm (9.06 in.) Wide Belts (20M-230)																
38	P3820M230-MPB	2⅞	9.524	9.354	10.433	DF-1	4.75	1.25	7.50	3.63	—	7.50	9.88	7.56	9.50	120.0
40	P4020M230-MPB	2⅞	10.026	9.856	10.827	DF-1	5.25	1.25	8.50	2.63	—	8.00	9.88	8.00	9.50	147.0
44	P4420M230-MPB	2⅞	11.028	10.858	11.811	DF-1	5.25	1.25	8.50	2.63	—	8.25	9.88	8.93	9.50	180.0
QD 230mm (9.06 in.) Wide Belts (20M-230)																
48	P4820M230-M	M	12.031	11.861	12.795	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	9.93	9.50	129.0
52	P5220M230-M	M	13.033	12.863	13.764	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	10.88	9.50	158.0
56	P5620M230-M	M	14.036	13.866	14.764	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	11.88	9.50	189.0
60	P6020M230-M	M	15.038	14.868	15.927	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	13.06	9.50	217.0
64	P6420M230-M	M	16.041	15.871	16.929	AF-2	5.50	0.56	6.75	2.56	2.00	—	9.88	14.06	9.50	198.0
68	P6820M230-N	N	17.044	16.874	17.927	AF-1	5.87	0.06	8.12	1.69	1.81	—	9.88	15.00	9.50	324.0
72	P7220M230-N	N	18.046	17.876	18.898	AF-2	5.87	0.06	8.12	1.69	1.81	—	9.88	16.00	9.50	287.0
80	P8020M230-N	N	20.051	19.881	20.866	AF-2	5.87	0.06	8.12	1.69	1.81	—	9.88	18.00	9.50	280.0
90	P9020M230-N	N	22.558	22.388	23.425	AF-2	5.87	0.06	8.12	1.69	1.81	—	9.88	20.56	9.50	319.0
112	P11220M230-N	N	28.072	27.902	—	A-3	5.87	0.06	8.12	1.69	1.81	—	9.88	26.25	—	357.0
144	P14420M230-P	P	36.092	35.922	—	D-3	7.00	0.69	9.38	1.19	1.31	—	9.88	34.25	—	535.0
168	P16820M230-P	P	42.108	41.938	—	D-3	7.00	0.69	9.38	1.19	1.31	—	9.88	40.25	—	654.0
192	P19220M230-W	W	48.123	47.953	—	C-3	8.50	0.75	11.38	0.75	1.50	—	9.88	46.00	—	935.0
216	P21620M230-W	W	54.138	53.968	—	C-3	8.50	0.75	11.38	0.75	1.50	—	9.88	52.00	—	1062.0

* Weight Shown is for Sprocket less Bushing.
• Reverse Mount Only

\+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

High Torque Sprockets 20mm

Type A **Type D**



Type AF **Type DF**

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	H	K	F	G	W	Weight Approx. (lbs)
QD 290mm (11.42 in.) Wide Belts (20M-290)																
52	P5220M290-N	N	13.033	12.863	13.764	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	10.88	11.88	187.0
56	P5620M290-N	N	14.036	13.866	14.764	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	11.88	11.88	223.0
60	P6020M290-N	N	15.038	14.868	15.927	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	13.06	11.88	257.0
64	P6420M290-N	N	16.041	15.871	16.929	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	14.06	11.88	299.0
68	P6820M290-N	N	17.044	16.874	17.927	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	15.00	11.88	346.0
72	P7220M290-N	N	18.046	17.876	18.898	AF-2	5.87	0.75	8.12	2.38	2.50	—	12.25	16.00	11.88	311.0
80	P8020M290-N	N	20.051	19.881	20.866	AF-2	5.87	0.75	8.12	2.38	2.50	—	12.25	18.00	11.88	314.0
90	P9020M290-N	N	22.558	22.388	23.425	AF-2	5.87	0.75	8.12	2.38	2.50	—	12.25	20.56	11.88	359.0
112	P11220M290-P	P	28.072	27.902	—	A-2	7.00	0.50	9.38	2.38	2.50	—	12.25	26.12	—	513.0
144	P14420M290-P	P	36.092	35.922	—	A-3	7.00	0.50	9.38	2.38	2.50	—	12.25	34.00	—	637.0
168	P16820M290-W	W	42.108	41.938	—	A-3	8.50	0.44	11.38	0.44	2.68	—	12.25	40.00	—	891.0
192	P19220M290-W	W	48.123	47.953	—	A-3	8.50	0.44	11.38	0.44	2.68	—	12.25	46.00	—	1061.0
216	P21620M290-W	W	54.138	53.968	—	A-3	8.50	0.44	11.38	0.44	2.68	—	12.25	52.00	—	1239.0
QD 340 mm (13.39 in.) Wide Belts (20M-340)																
52	P5220M340-N	N	13.033	12.863	13.764	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	10.88	13.88	201.0
56	P5620M340-N	N	14.036	13.866	14.764	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	11.88	13.88	239.0
60	P6020M340-N	N	15.038	14.868	15.927	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	13.06	13.88	273.0
64	P6420M340-N	N	16.041	15.871	16.929	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	14.06	13.88	316.0
68	P6820M340-N	N	17.044	16.874	17.927	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	15.00	13.88	364.0
72	P7220M340-N	N	18.046	17.876	18.898	AF-2	5.87	0.75	8.12	5.38	2.50	—	14.25	16.00	13.88	330.0
80	P8020M340-P	P	20.051	19.881	20.866	AF-2	7.00	1.50	9.38	3.38	3.50	—	14.25	18.00	13.88	406.0
90	P9020M340-P	P	22.558	22.388	23.425	AF-2	7.00	1.50	9.38	3.38	3.50	—	14.25	20.56	13.88	426.0
112	P11220M340-P	P	28.072	27.902	—	A-2	7.00	1.50	9.38	3.38	3.50	—	14.25	26.12	—	543.0
144	P14420M340-W	W	36.092	35.922	—	A-3	8.50	0.38	11.38	2.50	2.63	—	14.25	34.00	—	814.0
168	P16820M340-W	W	42.108	41.938	—	A-3	8.50	0.38	11.38	2.50	2.63	—	14.25	40.00	—	947.0
192	P19220M340-S	S	48.123	47.953	—	D-3	10.00	2.50	15.75	1.00	1.12	—	14.25	46.00	—	1368.0
216	P21620M340-S	S	54.138	53.968	—	D-3	10.00	2.50	15.75	1.00	1.12	—	14.25	51.88	—	1555.0

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• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms), within the "Type" indicates construction and the letter F indicates the sprocket has flanges.

HTS® 5mm
Sprocket Diameters

No. of Teeth	Diameters mm	Diameters In.	No. of Teeth	Diameters mm	Diameters In.	No. of Teeth	Diameters mm	Diameters In.	No. of Teeth	Diameters mm	Diameters In.	No. of Teeth	Diameters mm	Diameters In.
	PD	OD		PD	OD		PD	OD		PD	OD		PD	OD
13	**20.69** 0.815	**19.55** 0.770	43	**68.44** 2.694	**67.30** 2.649	73	**116.18** 4.574	**115.04** 4.529	103	**163.93** 6.454	**162.79** 6.409	133	**211.68** 8.334	**210.54** 8.289
14	**22.28** 0.877	**21.14** 0.832	44	**70.03** 2.757	**68.89** 2.712	74	**117.77** 4.637	**116.63** 4.592	104	**165.52** 6.517	**164.38** 6.472	134	**213.27** 8.396	**212.13** 8.351
15	**23.87** 0.940	**22.73** 0.895	45	**71.62** 2.820	**70.48** 2.775	75	**119.37** 4.699	**118.23** 4.654	105	**167.11** 6.579	**165.97** 6.534	135	**214.86** 8.459	**213.72** 8.414
16	**25.46** 1.003	**24.32** 0.958	46	**73.21** 2.882	**72.07** 2.837	76	**120.96** 4.762	**119.82** 4.717	106	**168.70** 6.642	**167.56** 6.597	136	**216.45** 8.522	**215.31** 8.477
17	**27.06** 1.065	**25.92** 1.020	47	**74.80** 2.945	**73.66** 2.900	77	**122.55** 4.825	**121.41** 4.780	107	**170.3** 6.705	**169.16** 6.660	137	**218.04** 8.584	**216.90** 8.539
18	**28.65** 1.128	**27.51** 1.083	48	**76.39** 3.008	**75.25** 2.963	78	**124.14** 4.887	**123.00** 4.842	108	**171.89** 6.767	**170.75** 6.722	138	**219.63** 8.647	**218.49** 8.602
19	**30.24** 1.191	**29.10** 1.146	49	**77.99** 3.070	**76.85** 3.025	79	**125.73** 4.950	**124.59** 4.905	109	**173.48** 6.830	**172.34** 6.785	139	**221.23** 8.710	**220.09** 8.665
20	**31.83** 1.253	**30.69** 1.208	50	**79.58** 3.133	**78.94** 3.088	80	**127.32** 5.013	**126.18** 4.968	110	**175.07** 6.893	**173.93** 6.848	140	**222.82** 8.772	**221.68** 8.727
21	**33.42** 1.316	**32.28** 1.271	51	**81.17** 3.196	**80.03** 3.151	81	**128.92** 5.075	**127.78** 5.030	111	**176.66** 6.955	**175.52** 6.910	141	**224.41** 8.835	**223.27** 8.790
22	**35.01** 1.379	**33.87** 1.334	52	**82.76** 3.258	**81.62** 3.213	82	**130.51** 5.138	**129.37** 5.093	112	**178.25** 7.018	**177.11** 6.973	142	**226.00** 8.898	**224.86** 8.853
23	**36.61** 1.441	**35.47** 1.396	53	**84.35** 3.321	**83.21** 3.276	83	**132.10** 5.201	**130.96** 5.156	113	**179.85** 7.081	**178.71** 7.036	143	**227.59** 8.960	**226.45** 8.915
24	**38.20** 1.504	**37.06** 1.459	54	**85.94** 3.384	**84.80** 3.339	84	**133.69** 5.263	**132.55** 5.218	114	**181.44** 7.143	**180.30** 7.098	144	**229.18** 9.023	**228.04** 8.978
25	**39.79** 1.566	**38.65** 1.521	55	**87.54** 3.446	**86.40** 3.401	85	**135.28** 5.326	**134.14** 5.281	115	**183.03** 7.206	**181.89** 7.161	145	**230.77** 9.086	**229.63** 9.041
26	**41.38** 1.629	**40.24** 1.584	56	**89.13** 3.509	**87.99** 3.464	86	**136.87** 5.389	**135.73** 5.344	116	**184.62** 7.268	**183.48** 7.223	146	**232.37** 9.148	**231.23** 9.103
27	**42.97** 1.692	**41.83** 1.647	57	**90.72** 3.572	**89.58** 3.527	87	**138.46** 5.451	**137.32** 5.406	117	**186.21** 7.331	**185.07** 7.286	147	**233.96** 9.211	**232.82** 9.166
28	**44.56** 1.754	**43.42** 1.709	58	**92.31** 3.634	**91.17** 3.589	88	**140.06** 5.514	**138.92** 5.469	118	**187.80** 7.394	**186.66** 7.349	148	**235.55** 9.274	**234.41** 9.229
29	**46.15** 1.817	**45.01** 1.772	59	**93.90** 3.697	**92.76** 3.652	89	**141.65** 5.577	**140.51** 5.532	119	**189.39** 7.456	**188.25** 7.411	149	**237.14** 9.336	**236.00** 9.291
30	**47.75** 1.880	**46.61** 1.835	60	**95.49** 3.760	**94.35** 3.715	90	**143.24** 5.639	**142.10** 5.594	120	**190.99** 7.519	**189.85** 7.474	150	**238.73** 9.399	**237.59** 9.354
31	**49.34** 1.942	**48.20** 1.897	61	**97.08** 3.822	**95.94** 3.777	91	**144.83** 5.702	**143.69** 5.657	121	**192.58** 7.582	**191.44** 7.537	151	**240.32** 9.462	**239.18** 9.417
32	**50.93** 2.005	**49.79** 1.960	62	**98.68** 3.885	**97.54** 3.840	92	**146.42** 5.765	**145.28** 5.720	122	**194.17** 7.644	**193.03** 7.599	152	**241.92** 9.524	**240.78** 9.479
33	**52.52** 2.068	**51.38** 2.023	63	**100.27** 3.948	**99.13** 3.903	93	**148.01** 5.827	**146.87** 5.782	123	**195.76** 7.707	**194.62** 7.662	153	**243.51** 9.587	**242.37** 9.542
34	**54.11** 2.130	**52.97** 2.085	64	**101.86** 4.010	**100.72** 3.965	94	**149.61** 5.890	**148.47** 5.845	124	**197.35** 7.770	**196.21** 7.725	154	**245.10** 9.650	**243.96** 9.605
35	**55.70** 2.193	**54.56** 2.148	65	**103.45** 4.073	**102.31** 4.028	95	**151.20** 5.953	**150.06** 5.908	125	**198.94** 7.832	**197.80** 7.787	155	**246.69** 9.712	**245.55** 9.667
36	**57.30** 2.256	**56.16** 2.211	66	**105.04** 4.136	**103.90** 4.091	96	**152.79** 6.015	**151.65** 5.970	126	**200.54** 7.895	**199.40** 7.850	156	**248.28** 9.775	**247.14** 9.730
37	**58.89** 2.318	**57.75** 2.273	67	**106.63** 4.198	**105.49** 4.153	97	**154.38** 6.078	**153.24** 6.033	127	**202.13** 7.958	**200.99** 7.913	157	**249.87** 9.838	**248.73** 9.793
38	**60.48** 2.381	**59.34** 2.336	68	**108.23** 4.261	**107.09** 4.216	98	**155.97** 6.141	**154.83** 6.096	128	**203.72** 8.020	**202.58** 7.975	158	**251.46** 9.900	**250.32** 9.855
39	**62.07** 2.444	**60.93** 2.399	69	**109.82** 4.324	**108.68** 4.279	99	**157.56** 6.203	**156.42** 6.158	129	**205.31** 8.083	**204.17** 8.038	159	**253.06** 9.963	**251.92** 9.918
40	**63.66** 2.506	**62.52** 2.461	70	**111.41** 4.386	**110.27** 4.341	100	**159.15** 6.266	**158.01** 6.221	130	**206.90** 8.146	**205.76** 8.101	160	**254.65** 10.026	**253.51** 9.981
41	**62.25** 2.569	**64.11** 2.524	71	**113.00** 4.449	**111.86** 4.404	101	**160.75** 6.329	**159.61** 6.284	131	**208.49** 8.208	**207.35** 8.163			
42	**66.85** 2.632	**65.71** 2.587	72	**114.59** 4.511	**113.45** 4.466	102	**162.34** 6.391	**161.20** 6.346	132	**210.08** 8.271	**208.94** 8.226			

HTS® 8mm Sprocket Diameters

No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD
22	**56.02** 2.206	**54.66** 2.152	57	**145.15** 5.715	**143.78** 5.660	92	**234.28** 9.223	**232.90** 9.169	127	**323.41** 12.733	**322.03** 12.678	162	**412.53** 16.241	**411.16** 16.187
23	**58.57** 2.306	**57.20** 2.252	58	**147.70** 5.815	**146.32** 5.761	93	**236.82** 9.324	**235.45** 9.270	128	**325.95** 12.833	**324.58** 12.779	163	**415.08** 16.342	**413.70** 16.288
24	**61.12** 2.406	**59.74** 2.352	59	**150.24** 5.915	**148.87** 5.861	94	**239.37** 9.424	**238.00** 9.370	129	**328.50** 12.933	**327.12** 12.879	164	**417.62** 16.442	**416.25** 16.388
25	**63.66** 2.506	**62.28** 2.452	60	**152.79** 6.015	**151.42** 5.961	95	**241.92** 9.524	**240.54** 9.470	130	**331.04** 13.033	**329.67** 12.979	165	**420.17** 16.542	**418.8** 16.488
26	**66.21** 2.607	**64.85** 2.553	61	**155.34** 6.116	**153.96** 6.062	96	**244.46** 9.624	**243.09** 9.570	131	**333.59** 13.133	**332.22** 13.079	166	**422.72** 16.642	**421.34** 16.588
27	**68.75** 2.707	**67.39** 2.653	62	**157.88** 6.216	**156.51** 6.162	97	**247.01** 9.725	**245.64** 9.671	132	**336.14** 13.234	**334.76** 13.180	167	**425.26** 16.743	**423.89** 16.689
28	**71.30** 2.807	**70.08** 2.759	63	**160.43** 6.316	**159.06** 6.262	98	**249.55** 9.825	**248.18** 9.771	133	**338.68** 13.334	**337.31** 13.280	168	**427.81** 16.843	**426.44** 16.789
29	**73.85** 2.907	**72.62** 2.859	64	**162.97** 6.416	**161.60** 6.362	99	**252.10** 9.925	**250.73** 9.871	134	**341.23** 13.434	**339.86** 13.380	169	**430.35** 16.943	**428.98** 16.889
30	**76.39** 3.008	**75.13** 2.958	65	**165.52** 6.517	**164.15** 6.463	100	**254.65** 10.025	**253.28** 9.971	135	**343.77** 13.534	**342.40** 13.480	170	**432.90** 17.043	**431.53** 16.989
31	**78.94** 3.108	**77.65** 3.057	66	**168.07** 6.617	**166.70** 6.563	101	**257.19** 10.126	**255.82** 10.072	136	**346.32** 13.635	**344.95** 13.581	171	**435.45** 17.144	**434.08** 17.090
32	**81.49** 3.208	**80.16** 3.156	67	**170.61** 6.717	**169.24** 6.663	102	**259.74** 10.226	**258.37** 10.172	137	**348.87** 13.735	**347.50** 13.681	172	**437.99** 17.244	**436.62** 17.190
33	**84.03** 3.308	**82.68** 3.255	68	**173.16** 6.817	**171.79** 6.763	103	**262.29** 10.326	**260.92** 10.272	138	**351.41** 13.835	**350.04** 13.781	173	**440.54** 17.344	**439.17** 17.290
34	**86.58** 3.409	**85.22** 3.355	69	**175.71** 6.918	**174.34** 6.864	104	**264.83** 10.427	**263.46** 10.372	139	**353.96** 13.935	**352.59** 13.881	174	**443.09** 17.444	**441.72** 17.390
35	**89.13** 3.509	**87.76** 3.455	70	**178.25** 7.018	**176.88** 6.964	105	**267.38** 10.527	**266.01** 10.473	140	**356.51** 14.036	**355.14** 13.982	175	**445.63** 17.544	**444.26** 17.491
36	**91.67** 3.609	**90.30** 3.555	71	**180.80** 7.118	**179.43** 7.064	106	**269.93** 10.628	**268.56** 10.573	141	**359.05** 14.136	**357.68** 14.082	176	**448.18** 17.645	**446.81** 17.591
37	**94.22** 3.709	**92.85** 3.655	72	**183.35** 7.218	**181.97** 7.164	107	**272.47** 10.728	**271.10** 10.673	142	**361.60** 14.236	**360.23** 14.182	177	**450.73** 17.745	**449.36** 17.691
38	**96.77** 3.810	**95.39** 3.756	73	**185.89** 7.319	**184.52** 7.265	108	**275.02** 10.828	**273.65** 10.771	143	**364.15** 14.336	**362.77** 14.282	178	**453.27** 17.845	**451.90** 17.791
39	**99.31** 3.910	**97.94** 3.856	74	**188.44** 7.419	**187.07** 7.365	109	**277.57** 10.928	**276.19** 10.874	144	**366.69** 14.437	**365.32** 14.383	179	**455.82** 17.946	**454.45** 17.892
40	**101.86** 4.010	**100.49** 3.956	75	**190.99** 7.519	**189.61** 7.465	110	**280.11** 11.028	**278.74** 10.974	145	**369.24** 14.537	**367.87** 14.483	180	**458.37** 18.046	**456.99** 17.992
41	**104.41** 4.110	**103.03** 4.056	76	**193.53** 7.619	**192.16** 7.565	111	**282.66** 11.128	**281.29** 11.074	146	**371.79** 14.637	**370.41** 14.583	181	**460.91** 18.146	**459.54** 18.092
42	**106.95** 4.211	**105.58** 4.157	77	**196.08** 7.720	**194.71** 7.666	112	**285.21** 11.229	**283.83** 11.175	147	**374.33** 14.737	**372.96** 14.683	182	**463.46** 18.246	**462.09** 18.192
43	**109.50** 4.311	**108.13** 4.257	78	**198.63** 7.820	**197.25** 7.766	113	**287.75** 11.329	**286.38** 11.275	148	**376.88** 14.838	**375.51** 14.784	183	**466.01** 18.347	**464.63** 18.293
44	**112.05** 4.411	**110.67** 4.357	79	**201.17** 7.920	**199.81** 7.866	114	**290.30** 11.429	**288.93** 11.375	149	**379.43** 14.938	**378.05** 14.884	184	**468.55** 18.447	**467.18** 18.393
45	**114.59** 4.511	**113.22** 4.457	80	**203.72** 8.020	**202.35** 7.966	115	**292.85** 11.529	**291.47** 11.475	150	**381.96** 15.038	**380.60** 14.984	185	**471.10** 18.547	**469.73** 18.493
46	**117.14** 4.612	**115.77** 4.558	81	**206.26** 8.121	**204.89** 8.067	116	**295.39** 11.630	**294.02** 11.576	151	**384.52** 15.138	**353.15** 15.084	186	**473.65** 18.647	**472.27** 18.593
47	**119.68** 4.712	**118.31** 4.658	82	**208.81** 8.221	**207.44** 8.167	117	**297.94** 11.730	**296.57** 11.676	152	**387.06** 15.239	**385.70** 15.185	187	**476.19** 18.748	**474.82** 18.694
48	**122.23** 4.812	**120.86** 4.758	83	**211.36** 8.321	**209.99** 8.267	118	**300.48** 11.830	**299.11** 11.776	153	**389.61** 15.339	**388.24** 15.285	188	**478.74** 18.848	**477.37** 18.794
49	**124.78** 4.912	**123.41** 4.858	84	**213.90** 8.421	**212.53** 8.367	119	**303.03** 11.930	**301.66** 11.876	154	**392.16** 15.439	**390.79** 15.385	189	**481.28** 18.948	**479.91** 18.894
50	**127.32** 5.013	**125.95** 4.959	85	**216.45** 8.522	**215.08** 8.468	120	**305.58** 12.031	**304.21** 11.977	155	**394.70** 15.540	**393.33** 15.486	190	**483.83** 19.048	**482.46** 18.994
51	**129.87** 5.113	**128.50** 5.059	86	**219.00** 8.622	**217.63** 8.568	121	**308.12** 12.131	**306.75** 12.077	156	**397.25** 15.640	**395.88** 15.586	191	**486.38** 19.149	**485.01** 19.095
52	**132.42** 5.213	**131.05** 5.159	87	**221.54** 8.722	**220.17** 8.668	122	**310.67** 12.231	**309.30** 12.177	157	**399.80** 15.740	**398.43** 15.686	192	**488.92** 19.249	**487.55** 19.195
53	**134.96** 5.314	**133.59** 5.259	88	**224.09** 8.822	**222.72** 8.768	123	**313.22** 12.331	**311.85** 12.227	158	**402.34** 15.840	**400.97** 15.786			
54	**137.51** 5.414	**136.14** 5.360	89	**226.64** 8.923	**225.27** 8.869	124	**315.76** 12.432	**314.39** 12.378	159	**404.89** 15.941	**403.52** 15.887			
55	**140.06** 5.514	**138.68** 5.460	90	**229.18** 9.023	**227.81** 8.969	125	**318.31** 12.532	**316.94** 12.478	160	**407.44** 16.041	**406.07** 15.987			
56	**142.60** 5.614	**141.23** 5.560	91	**231.73** 9.123	**230.36** 9.069	126	**320.86** 12.632	**319.48** 12.578	161	**409.98** 16.141	**408.61** 16.087			

HTS® 14mm
Sprocket Diameters

No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD	No. of Teeth	Diameters mm In. PD	OD
28	**124.78** 4.912	**122.12** 4.808	66	**294.12** 11.579	**291.32** 11.469	104	**463.46** 18.246	**460.66** 18.136	142	**632.80** 24.913	**630.01** 24.803	180	**802.14** 31.580	**799.35** 31.47
29	**129.23** 5.088	**126.57** 4.983	67	**298.57** 11.755	**295.78** 11.645	105	**467.92** 18.422	**465.12** 18.312	143	**637.26** 25.089	**634.46** 24.979	181	**806.60** 31.756	**803.80** 31.646
30	**133.69** 5.263	**130.99** 5.157	68	**303.03** 11.930	**300.24** 11.820	106	**472.37** 18.597	**469.58** 18.487	144	**641.71** 25.264	**638.92** 25.154	182	**811.05** 31.931	**808.26** 31.821
31	**138.15** 5.439	**135.46** 5.333	69	**307.49** 12.106	**304.69** 11.996	107	**476.83** 18.773	**474.03** 18.663	145	**646.17** 25.440	**643.37** 25.330	183	**815.51** 32.107	**812.72** 31.997
32	**142.60** 5.614	**139.88** 5.507	70	**311.94** 12.281	**309.15** 12.171	108	**481.28** 18.948	**478.49** 18.838	146	**650.63** 25.615	**647.83** 25.505	184	**819.97** 32.252	**817.17** 32.172
33	**147.06** 5.790	**144.35** 5.683	71	**316.40** 12.457	**313.61** 12.347	109	**485.74** 19.124	**482.95** 19.014	147	**655.08** 25.791	**652.29** 25.681	185	**824.42** 32.458	**821.63** 32.348
34	**151.52** 5.965	**148.79** 5.858	72	**320.86** 12.632	**318.06** 12.522	110	**490.20** 19.299	**487.40** 19.189	148	**659.54** 25.966	**656.74** 25.856	186	**828.88** 32.633	**826.08** 32.523
35	**155.98** 6.141	**153.24** 6.033	73	**325.31** 12.808	**322.52** 12.698	111	**494.65** 19.475	**491.86** 19.365	149	**663.99** 26.141	**661.20** 26.031	187	**833.33** 32.808	**830.54** 32.698
36	**160.43** 6.316	**157.68** 6.208	74	**329.77** 12.983	**326.97** 12.873	112	**499.11** 19.650	**496.32** 19.540	150	**668.45** 26.317	**665.66** 26.207	188	**837.79** 32.954	**835.00** 32.874
37	**164.88** 6.491	**162.13** 6.383	75	**334.22** 13.158	**331.43** 13.048	113	**503.57** 19.825	**500.77** 19.715	151	**672.91** 26.492	**670.11** 26.382	189	**842.25** 33.159	**839.45** 33.049
38	**169.34** 6.667	**166.60** 6.559	76	**338.68** 13.334	**335.89** 13.224	114	**508.20** 20.001	**505.23** 19.891	152	**677.36** 26.668	**674.57** 26.558	190	**846.70** 33.335	**843.91** 33.225
39	**173.80** 6.842	**171.02** 6.733	77	**343.14** 13.509	**340.34** 13.399	115	**512.48** 20.176	**509.68** 20.056	153	**681.82** 26.843	**679.03** 26.733	191	**851.16** 33.510	**848.37** 33.400
40	**178.25** 7.018	**175.49** 6.909	78	**347.59** 13.685	**344.80** 13.575	116	**516.93** 20.352	**514.14** 20.242	154	**690.73** 27.194	**687.94** 27.084	192	**855.62** 33.686	**852.82** 33.576
41	**182.71** 7.193	**179.92** 7.083	79	**352.05** 13.860	**349.26** 13.750	117	**521.39** 20.527	**518.60** 20.417	155	**690.73** 27.194	**687.94** 27.084	193	**860.07** 33.861	**857.28** 33.751
42	**187.17** 7.369	**184.37** 7.259	80	**356.51** 14.036	**353.71** 13.926	118	**525.85** 20.703	**523.05** 20.593	156	**695.19** 27.370	**692.39** 27.260	194	**864.53** 34.037	**861.75** 33.927
43	**191.62** 7.544	**188.83** 7.434	81	**360.96** 14.211	**358.17** 14.101	119	**530.30** 20.878	**527.51** 20.768	157	**699.64** 27.545	**696.85** 27.435	195	**868.98** 34.212	**866.44** 34.112
44	**196.08** 7.720	**193.28** 7.610	82	**365.42** 14.387	**362.63** 14.277	120	**534.76** 21.054	**531.97** 20.944	158	**704.10** 27.720	**701.31** 27.610	196	**873.44** 34.387	**870.64** 34.277
45	**200.53** 7.895	**197.74** 7.785	83	**369.88** 14.562	**367.08** 14.452	121	**539.22** 21.229	**536.42** 21.119	159	**708.56** 27.896	**705.76** 27.786	197	**877.90** 34.553	**875.11** 34.453
46	**204.99** 8.071	**202.20** 7.961	84	**374.33** 14.737	**371.54** 14.627	122	**543.67** 21.404	**540.88** 21.294	160	**713.01** 28.071	**710.22** 27.961	198	**882.35** 34.738	**879.55** 34.628
47	**209.45** 8.246	**206.65** 8.136	85	**378.79** 14.913	**375.99** 14.803	123	**548.13** 21.580	**545.34** 21.470	161	**717.47** 28.247	**714.68** 28.137	199	**886.81** 34.914	**884.02** 34.804
48	**213.90** 8.421	**211.11** 8.311	86	**383.24** 15.068	**380.45** 14.978	124	**552.59** 21.755	**549.79** 21.645	162	**721.93** 28.422	**719.13** 28.312	200	**891.27** 35.089	**888.47** 34.979
49	**218.36** 8.597	**215.57** 8.487	87	**387.70** 15.264	**384.91** 15.154	125	**557.04** 21.931	**554.25** 21.821	163	**726.38** 28.598	**723.59** 28.488	201	**895.72** 35.265	**892.94** 35.155
50	**222.82** 8.772	**220.02** 8.662	88	**392.16** 15.439	**389.36** 15.329	126	**561.50** 22.106	**558.70** 21.996	164	**730.84** 28.773	**728.05** 28.663	202	**900.18** 35.440	**897.38** 35.330
51	**227.27** 8.948	**224.48** 8.838	89	**396.61** 15.615	**393.82** 15.505	127	**565.95** 22.282	**563.16** 22.172	165	**735.30** 28.949	**782.50** 28.839	203	**906.64** 35.616	**901.85** 35.506
52	**231.73** 9.123	**228.94** 9.013	90	**401.07** 15.790	**398.28** 15.680	128	**570.41** 22.457	**567.62** 22.347	166	**739.75** 29.124	**736.96** 29.014	204	**909.09** 35.791	**906.30** 35.681
53	**236.19** 9.229	**233.39** 9.189	91	**405.53** 15.966	**402.73** 15.856	129	**574.87** 22.633	**572.07** 22.523	167	**744.21** 29.299	**741.41** 29.189	205	**913.55** 35.966	**910.74** 35.856
54	**240.64** 9.474	**237.85** 9.354	92	**409.98** 16.141	**407.19** 16.031	130	**579.32** 22.808	**576.53** 22.689	168	**748.66** 29.475	**745.87** 29.365	206	**918.00** 36.142	**915.21** 36.032
55	**245.10** 9.650	**242.30** 9.540	93	**414.44** 16.316	**411.64** 16.206	131	**583.78** 22.983	**580.99** 22.873	169	**753.12** 29.650	**750.33** 29.540	207	**922.46** 36.317	**919.66** 36.207
56	**249.55** 9.825	**246.76** 9.715	94	**418.90** 16.492	**416.10** 16.382	132	**588.24** 23.159	**585.44** 23.049	170	**757.58** 29.826	**754.78** 29.716	208	**926.92** 36.493	**924.13** 36.383
57	**254.01** 10.000	**251.22** 9.890	95	**423.35** 16.667	**420.56** 16.557	133	**592.69** 23.334	**589.90** 23.224	171	**762.03** 30.001	**759.24** 29.891	209	**931.97** 36.668	**928.57** 36.558
58	**258.47** 10.176	**255.67** 10.066	96	**427.81** 16.843	**425.01** 16.733	134	**597.15** 23.510	**594.35** 23.400	172	**766.49** 30.177	**763.70** 30.067	210	**935.83** 36.844	**933.04** 36.734
59	**262.92** 10.351	**260.13** 10.241	97	**432.26** 17.018	**429.47** 16.908	135	**601.61** 23.685	**598.81** 23.575	173	**770.95** 30.352	**768.15** 3.242	211	**940.29** 37.019	**937.49** 36.909
60	**267.38** 10.527	**264.59** 10.417	98	**436.72** 17.194	**433.93** 17.084	136	**606.06** 23.861	**603.27** 23.751	174	**775.40** 30.528	**772.61** 30.418	212	**944.74** 37.195	**941.96** 37.085
61	**271.84** 10.702	**269.04** 10.592	99	**441.18** 17.369	**438.38** 17.259	137	**610.52** 24.036	**607.72** 23.926	175	**779.86** 30.703	**777.06** 30.593	213	**949.20** 37.370	**946.40** 37.260
62	**276.29** 10.878	**273.50** 10.768	100	**445.63** 17.545	**442.84** 17.435	138	**614.97** 24.212	**612.18** 24.102	176	**784.32** 30.878	**781.52** 30.768	214	**953.65** 37.545	**950.85** 37.435
63	**280.75** 11.053	**277.95** 10.943	101	**450.09** 17.720	**447.30** 17.610	139	**619.43** 24.387	**616.64** 24.277	177	**788.77** 31.054	**785.98** 30.944	215	**958.11** 37.721	**955.32** 37.611
64	**285.21** 11.229	**282.41** 11.119	102	**454.55** 17.895	**451.75** 17.785	140	**623.89** 24.562	**621.09** 24.452	178	**793.23** 31.228	**790.43** 31.119	216	**962.57** 37.896	**959.76** 37.786
65	**289.66** 11.404	**286.87** 11.294	103	**459.00** 18.071	**456.21** 17.961	141	**628.34** 24.738	**625.55** 24.628	179	**797.68** 31.405	**794.89** 31.295			

HTS® 20mm Sprocket Diameters

No. of Teeth	Diameters mm PD	Diameters mm OD	No. of Teeth	Diameters mm PD	Diameters mm OD	No. of Teeth	Diameters mm PD	Diameters mm OD	No. of Teeth	Diameters mm PD	Diameters mm OD	No. of Teeth	Diameters mm PD	Diameters mm OD
	In. PD	In. OD		In. PD	In. OD		In. PD	In. OD		In. PD	In. OD		In. PD	In. OD
34	**216.45** 8.522	**212.13** 8.352	71	**452.00** 17.795	**447.68** 17.625	108	**687.55** 27.069	**683.23** 26.899	145	**923.10** 36.342	**918.78** 36.172	182	**1158.65** 45.616	**1154.33** 45.446
35	**222.82** 8.772	**218.50** 8.602	72	**458.37** 18.046	**454.05** 17.876	109	**693.92** 27.320	**689.60** 27.150	146	**929.46** 36.593	**925.15** 36.423	183	**1165.01** 45.867	**1160.70** 45.697
36	**229.18** 9.023	**224.87** 8.853	73	**464.73** 18.297	**460.41** 18.127	110	**700.28** 27.570	**695.96** 27.400	147	**935.83** 36.840	**931.51** 36.674	184	**1171.38** 46.117	**1167.06** 45.947
37	**235.55** 9.274	**231.23** 9.104	74	**471.10** 18.547	**466.78** 18.377	111	**706.65** 27.821	**702.33** 27.651	148	**942.20** 37.094	**937.88** 36.924	185	**1177.75** 46.368	**1173.43** 46.198
38	**241.92** 9.524	**237.60** 9.354	75	**477.46** 18.798	**473.15** 18.628	112	**713.01** 28.071	**708.70** 27.901	149	**948.56** 37.345	**944.25** 37.175	186	**1184.11** 46.619	**1179.79** 46.449
39	**248.28** 9.775	**243.96** 9.605	76	**483.83** 19.048	**479.51** 18.878	113	**719.38** 28.322	**715.06** 28.152	150	**954.93** 37.596	**950.61** 37.426	187	**1190.48** 46.859	**1186.16** 46.699
40	**254.65** 10.026	**250.33** 9.855	77	**490.20** 19.299	**485.88** 19.129	114	**725.75** 28.573	**721.43** 28.403	151	**961.30** 37.846	**956.98** 37.676	188	**1196.85** 47.120	**1192.53** 46.950
41	**261.01** 10.276	**256.70** 10.106	78	**496.56** 19.550	**492.25** 19.380	115	**732.11** 28.823	**727.79** 28.653	152	**967.66** 38.097	**963.34** 37.927	189	**1203.21** 47.371	**1198.89** 47.201
42	**267.38** 10.527	**263.06** 10.357	79	**502.93** 19.800	**498.61** 19.630	116	**738.48** 29.074	**734.16** 28.904	153	**974.03** 38.348	**969.71** 38.178	190	**1209.58** 47.621	**1205.26** 47.451
43	**273.75** 10.777	**269.43** 10.607	80	**509.30** 20.051	**504.98** 19.881	117	**744.85** 29.325	**740.53** 29.155	154	**980.39** 38.598	**976.08** 38.428	191	**1215.94** 47.672	**1211.63** 47.702
44	**280.11** 11.028	**275.79** 10.858	81	**515.66** 20.302	**511.34** 20.132	118	**751.21** 29.575	**746.89** 29.405	155	**986.76** 38.849	**982.44** 38.679	192	**1222.31** 48.122	**1217.99** 47.952
45	**286.48** 11.279	**282.16** 11.109	82	**522.03** 20.552	**517.71** 20.382	119	**757.58** 29.826	**753.26** 29.656	156	**993.13** 39.099	**988.81** 38.929	193	**1228.68** 48.373	**1224.36** 48.203
46	**292.85** 11.529	**288.53** 11.469	83	**528.39** 20.803	**524.08** 20.633	120	**763.94** 30.077	**759.63** 29.907	157	**999.49** 39.350	**995.18** 39.180	194	**1235.04** 48.624	**1230.72** 48.454
47	**299.21** 11.780	**294.89** 11.610	84	**534.76** 21.054	**530.44** 20.884	121	**770.31** 30.327	**765.99** 30.157	158	**1005.86** 39.601	**1001.54** 39.431	195	**1241.41** 48.874	**1237.09** 48.704
48	**305.58** 12.031	**301.26** 11.861	85	**541.13** 21.304	**536.81** 21.134	122	**776.68** 30.578	**772.36** 30.408	159	**1012.23** 39.851	**1007.91** 39.681	196	**1247.77** 49.125	**1243.46** 48.955
49	**311.94** 12.281	**307.63** 12.111	86	**547.49** 21.555	**543.18** 21.385	123	**783.04** 30.828	**778.72** 30.658	160	**1018.59** 40.102	**1014.27** 39.932	197	**1254.14** 49.376	**1249.82** 49.206
50	**318.31** 12.532	**313.99** 12.362	87	**553.86** 21.805	**549.54** 21.635	124	**789.41** 31.079	**785.09** 30.909	161	**1024.96** 40.353	**1020.64** 40.183	198	**1260.51** 49.626	**1256.19** 49.456
51	**324.68** 12.763	**320.36** 12.613	88	**560.23** 22.056	**555.91** 21.886	125	**795.77** 31.330	**791.46** 31.160	162	**1031.32** 40.603	**1027.01** 40.433	199	**1266.87** 49.577	**1262.56** 49.707
52	**331.04** 13.033	**326.72** 12.863	89	**566.59** 22.307	**562.27** 22.137	126	**805.14** 31.580	**797.82** 31.410	163	**1037.69** 40.854	**1033.37** 40.684	200	**1273.24** 50.128	**1268.92** 49.958
53	**337.41** 13.284	**333.09** 13.114	90	**572.96** 22.557	**568.64** 22.387	127	**808.51** 31.831	**804.19** 31.661	164	**1044.06** 41.105	**1039.74** 40.935	201	**1279.61** 50.378	**1275.29** 50.208
54	**343.77** 13.534	**339.46** 13.364	91	**579.32** 22.808	**575.01** 22.638	128	**814.87** 32.082	**810.56** 31.912	165	**1050.42** 41.355	**1046.10** 41.185	202	**1285.97** 50.629	**1281.65** 50.459
55	**350.14** 13.785	**345.82** 13.615	92	**585.69** 23.059	**581.37** 22.889	129	**821.24** 32.332	**816.92** 32.162	166	**1056.79** 41.606	**1052.47** 41.436	203	**1292.34** 50.679	**1288.02** 50.709
56	**356.51** 14.036	**352.19** 13.856	93	**592.06** 23.309	**587.74** 23.139	130	**827.61** 32.583	**823.29** 32.413	167	**1063.16** 41.856	**1058.34** 41.686	204	**1298.70** 51.130	**1294.39** 50.960
57	**362.87** 14.286	**358.56** 14.116	94	**598.42** 23.560	**594.10** 23.390	131	**833.97** 32.834	**829.65** 32.664	168	**1069.52** 42.107	**1065.20** 41.937	205	**1305.07** 51.381	**1300.75** 51.211
58	**369.24** 14.537	**364.92** 14.367	95	**604.72** 23.811	**600.47** 43.641	132	**840.34** 33.084	**836.02** 32.914	169	**1075.89** 42.358	**1071.57** 42.188	206	**1311.44** 51.631	**1307.12** 51.461
59	**375.61** 14.788	**371.29** 14.618	96	**611.15** 24.061	**606.84** 23.891	133	**846.70** 33.335	**842.39** 33.165	170	**1082.25** 42.608	**1077.94** 42.438	207	**1317.80** 51.882	**1313.48** 51.712
60	**381.97** 15.038	**377.65** 14.868	97	**617.52** 24.312	**613.20** 24.142	134	**853.07** 33.585	**848.75** 33.415	171	**1088.62** 42.859	**1084.30** 42.689	208	**1324.17** 52.133	**1319.85** 51.963
61	**388.34** 15.289	**384.02** 15.119	98	**623.89** 24.562	**619.57** 24.392	135	**859.44** 33.836	**855.12** 33.666	172	**1094.99** 43.110	**1090.67** 42.940	209	**1330.54** 52.383	**1326.22** 52.213
62	**394.70** 15.540	**390.39** 15.370	99	**630.25** 24.813	**625.94** 24.643	136	**865.80** 34.087	**861.48** 33.917	173	**1101.35** 43.350	**1097.03** 43.190	210	**1336.90** 52.634	**1332.58** 52.464
63	**401.07** 15.790	**396.75** 15.620	100	**636.62** 25.064	**632.30** 24.894	137	**872.17** 34.337	**867.85** 34.167	174	**1107.72** 43.611	**1103.40** 43.441	211	**1343.27** 52.885	**1338.95** 52.715
64	**407.44** 16.041	**403.12** 15.871	101	**642.99** 25.314	**638.67** 25.144	138	**878.54** 34.588	**874.22** 34.418	175	**1114.08** 43.862	**1109.77** 43.692	212	**1349.63** 53.135	**1345.32** 52.965
65	**413.80** 16.291	**409.48** 16.121	102	**649.35** 25.565	**645.03** 25.395	139	**884.90** 34.839	**880.58** 34.669	176	**1120.45** 44.112	**1116.13** 43.942	213	**1356.00** 53.386	**1351.68** 53.216
66	**420.17** 16.542	**415.85** 16.372	103	**655.72** 25.816	**651.40** 25.646	140	**891.27** 35.089	**886.95** 34.919	177	**1126.82** 44.363	**1122.50** 44.193	214	**1362.37** 53.635	**1358.05** 53.456
67	**426.54** 16.793	**422.22** 16.623	104	**662.08** 26.066	**657.77** 25.896	141	**897.63** 35.340	**893.32** 35.170	178	**1133.18** 44.614	**1128.87** 44.444	215	**1368.73** 53.887	**1364.41** 53.717
68	**432.90** 17.043	**428.58** 16.873	105	**668.45** 26.317	**664.13** 26.147	142	**904.00** 35.591	**899.68** 35.421	179	**1139.55** 44.854	**1135.23** 44.694	216	**1375.10** 54.136	**1370.79** 53.958
69	**439.27** 17.299	**434.95** 17.124	106	**674.82** 26.568	**670.50** 26.398	143	**910.37** 35.841	**906.05** 35.671	180	**1145.92** 45.115	**1141.60** 44.945			
70	**445.63** 17.545	**441.32** 17.375	107	**681.18** 26.818	**676.87** 26.648	144	**916.73** 36.092	**912.41** 35.922	181	**1152.28** 45.365	**1147.96** 45.195			

DRIVE ALIGNMENT

To assure proper drive alignment, you should refer to the information in this section for center distance alignment. The alternative is to change the idler position, so that the belt can be slipped onto the drive easily. When you install the belt, never force it over the flange. This may cause belt tensile damage.

Positive belts are most sensitive to misalignment, so never use this kind of drive in applications where misalignment is prevalent. Inconsistent belt wear and premature tensile failure may result.

The two most common types of misalignment can be seen in the drawings below. Parallel misalignment is caused when the driver and driven shafts are parallel, but the two sprockets lie in different planes. When the two shafts are not parallel, the drive is angularly misaligned.

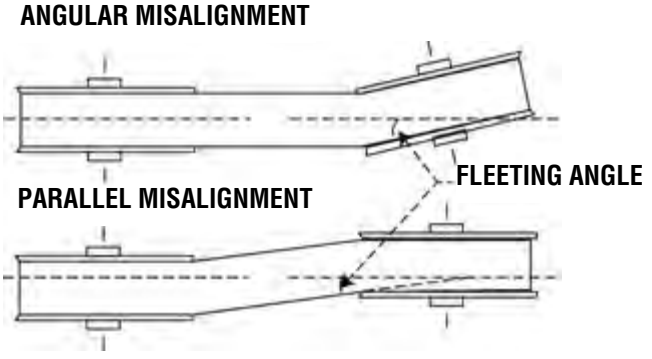
A fleeting angle (shown here) shows where the belt enters and exits the sprocket, and equals the sum of the parallel and angular misalignments.

Any degree of sprocket misalignment will result in some belt life reduction. Misalignment of all positive belt drives should not exceed ¼" or 1/16" per foot of center distance. Alignment should be checked with a good straight-edge tool applied to their machined side surfaces from driver to driven and from driven to driver shafts. This way the effect of parallel and angular misalignment can be observed.

Drive misalignment can also cause problems of belt tracking. Some tracking is normal and will not affect performance. However, where center distance is greater than eight times the small sprocket diameter, tracking can be a problem. Special adjustment may be needed. You have to correct the parallel position of the two sprockets until one flange guides the belt in the system and the belt tracks fully on all sprockets. Regardless of the drive's center distance, the best operation will be with the belt contacting only one flange in the system.

You will find the real application problem when the belt contacts flanges on opposite sides of the sprockets. This traps the belt into undesirable parallel misalignment.

Improper bushing installation can result in the entire bushing/sprocket assembly to be "cocked" on the shaft. This leads to angular misalignment. Be sure to follow Martin's bushing installation instructions.



INSTALLATION AND TENSIONING ALLOWANCES

We do not recommend fixed center drives. To avoid belt damage and excessive wear, refer to the Distance Allowance Charts. The standard installation allowance is the minimum decrease in the center distance required to install a belt when flanged sprockets are removed from their shafts for belt installation. The charts first column spells this out with more comprehensive information needed for the minimum increase in center distance required for a belt's tension during it's normal life.

If a belt is to be installed over flanged sprockets without removing them, the additional installation center distance allowances shown in the second table must be added to the first table data.

Distance Allowance Chart

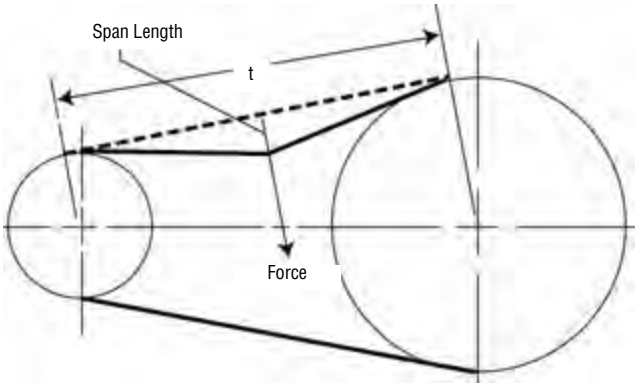
Belt Length (in.)	*Standard Installation Allowance	Tensioning Allowance (Any Drive)
20 and under	0.04"	0.03"
Over 20 to 40	0.05"	0.03"
Over 40 to 60	0.07"	0.04"
Over 60 to 90	0.09"	0.05"
Over 90 to 120	0.11"	0.05"
Over 120 to 160	0.14"	0.05"
Over 160 to 190	0.17"	0.05"
Over 190 to 260	0.21"	0.05"

*** Flanged Sprockets Removed for Installation.**

HTS BELT TENSIONING AND DEFLECTION FORCE

Lay the belt on the sprockets, adjusting the takeup, so that the belt teeth mesh securely with sprocket grooves. Measure the belt span "t." Then tighten the belt, so that it deflects 1/64" for each inch of belt span when a force is applied. (See Table below.)

Example: A 14mm pitch belt, 85mm wide, with a span of 30" and a maximum force of 28 lbs. applied, should deflect 30/64 inch. Deflection 1/64 per inch of span. (Measure the span length "t" as shown in the sketch below).



$$t = \sqrt{C^2 - \left(\frac{D-d}{2}\right)^2}$$

These ranges of deflection forces are applicable for drive installation. Actual operation tension depends on the number of teeth mesh, system rigidity, peak loads, etc.

Belt Pitch	Belt Width	Force*
5mm	9mm 15mm 25mm	9 to 18 oz. 1 to 2 lbs. 1-1/2 to 3 lbs.
8mm	20mm 30mm 50mm 85mm	3 to 4 lbs. 5 to 6-1/2 lbs. 9 to 12 lbs. 16 to 20 lbs.
14mm	40 mm 55mm 85 mm 115mm 170mm	10 to 13 lbs. 15 to 18 lbs. 23 to 28 lbs. 32 to 39 lbs. 48 to 57 lbs.
20mm	115mm 170mm 230mm 290mm 340mm	45 to 55 lbs. 70 to 85 lbs. 95 to 120 lbs. 120 to 150 lbs. 145 to 180 lbs.

***Force applies to speeds exceeding 600 rpm.**

NOTE: For belts wider than 2", you can avoid belt distortion by placing a 3/4" or 1" metal strip across the belt between belt and tension tester.

High HP
HTS® Sprockets

High HP HTS Synchronous Sprockets



"W" High HP HTS Sprockets (RPP® Tooth Profile) – Run with Hawk Pd®, Panther®, QT Power Chain® belts.

"W" High HP HTS Sprockets are designed to run with latest design, higher horsepower belts.

Martin's High HP HTS Sprockets are designed to run with today's highest horsepower RPP® profile belts.

High HP HTS Synchronous Sprockets allow you more flexibility in your selection criteria. The expanded line allows you to fit the application with the most cost effective sprockets.

W 24 8M 22 - JA

- **W** — High HP HTS
- **24** — Number of Teeth
- **8M** — Belt Pitch: 8mm, 14mm
- **22** — Belt Width: 12, 22, 35, 60; 20, 42, 65, 90, 120
- **JA** — Bushing or MPB

- Available in 8mm and 14mm pitches
- Belt widths: 12mm, 22mm, 35mm, 60mm (8mm pitch)

  20mm, 42mm, 65mm, 90mm, 120mm (14mm pitch)

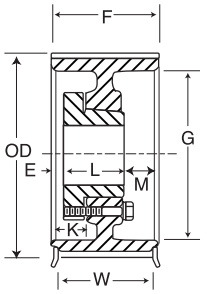
Available in QD, TB or MPB styles from stock.

- **Typical Part Number: W248M22-JA**

Hawk Pd® and Falcon Pd® are registered trademarks of Goodyear. QT Power Chain® is a registered trademark of TB Wood's.
RPP® and Panther® are registered trademarks of Carlisle Power Transmission. Poly Chain® GT®2 is a registered trademark of Gates Corporation.

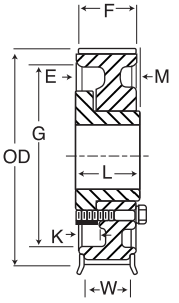
High HP HTS® Sprockets 8mm

Type A



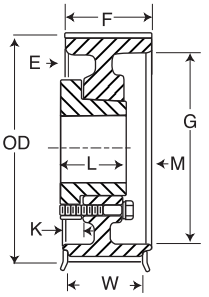
Type AF

Type C



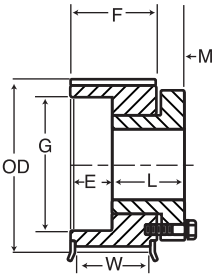
Type CF

Type D



Type DF

Type E•



Type EF•

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
8mm Pitch, 12 mm (.47 in.) Wide Belts (8M-12)																
22	W228M12-MPB	MPB	2.206	2.154	2.562	MPB	1.188	0.623	1.452	...	...	1.620	0.827	...	0.577	1.0
24	W248M12-JA	JA	2.406	2.354	2.750	EF-1 •	1.250	0.265	1.063	0.500	0.000	...	0.827	1.340	0.577	0.5
26	W268M12-JA	JA	2.607	2.554	2.937	EF-1 •	1.250	0.265	1.063	0.500	0.000	...	0.827	1.340	0.577	0.6
28	W288M12-H	H	2.807	2.755	3.156	EF-1 •	1.500	-0.048	1.250	0.375	0.000	...	0.827	1.570	0.577	0.7
30	W308M12-H	H	3.008	2.955	3.344	EF-1 •	1.500	-0.048	1.250	0.375	0.000	...	0.827	1.570	0.577	0.9
32	W328M12-H	H	3.208	3.155	3.562	EF-1 •	1.500	-0.048	1.250	0.375	0.000	...	0.827	1.570	0.577	1.1
34	W348M12-SH	SH	3.409	3.355	3.750	DF-1	1.688	0.500	1.313	0.014	0.000	...	0.827	2.750	0.577	1.1
36	W368M12-SH	SH	3.609	3.556	3.937	DF-1	1.688	0.500	1.313	0.014	0.000	...	0.827	2.820	0.577	1.3
38	W388M12-SH	SH	3.810	3.756	4.156	DF-1	1.688	0.500	1.313	0.014	0.000	...	0.827	3.000	0.577	1.6
40	W408M12-SH	SH	4.010	3.956	4.344	DF-1	1.688	0.500	1.313	0.014	0.000	...	0.827	3.000	0.577	1.9
44	W448M12-SDS	SDS	4.411	4.357	4.750	CF-1	2.000	0.548	1.375	0.000	0.077	...	0.827	3.500	0.577	2.1
48	W488M12-SDS	SDS	4.812	4.757	5.157	CF-1	2.000	0.548	1.375	0.000	0.077	...	0.827	3.800	0.577	2.7
56	W568M12-SDS	SDS	5.614	5.558	5.937	CF-1	2.000	0.548	1.375	0.000	0.077	...	0.827	4.600	0.577	4.0
64	W648M12-SDS	SDS	6.416	6.359	6.750	CF-1	2.000	0.548	1.375	0.000	0.077	...	0.827	5.400	0.577	5.5
72	W728M12-SDS	SDS	7.218	7.160	7.562	CF-1	2.000	0.548	1.375	0.000	0.077	...	0.827	6.200	0.577	7.3
80	W808M12-SDS	SDS	8.020	7.961	8.375	CF-2	2.000	0.548	1.375	0.000	0.077	...	0.827	6.900	0.577	9.2
90	W908M12-SDS	SDS	9.023	8.963	...	C-2	2.000	0.548	1.375	0.000	0.077	...	0.827	7.625	...	9.5
112	W1128M12-SK	SK	11.229	11.166	...	C-3	2.625	0.688	1.938	0.423	0.000	...	0.827	9.875	...	13.3
144	W1448M12-SK	SK	14.447	14.370	...	C-3	2.625	0.688	1.938	0.423	0.000	...	0.827	12.875	...	19.1
192	W1928M12-SF	SF	19.249	19.176	...	C-3	2.938	0.813	2.063	0.423	0.000	...	0.827	17.625	...	23.0
8mm Pitch, 22 mm (.86 in.) Wide Belts (8M-22)																
22	W228M22-MPB	MPB	2.206	2.154	2.562	MPBF-1	1.188	0.619	1.840	0.000	...	1.625	1.22	...	0.97	1.3
24	W248M22-JA	JA	2.406	2.354	2.750	EF-1 •	1.250	0.658	1.063	0.500	0.000	...	1.22	1.34	0.97	0.7
26	W268M22-JA	JA	2.607	2.554	2.937	EF-1 •	1.250	0.658	1.063	0.500	0.000	...	1.22	1.34	0.97	1.0
28	W288M22-H	H	2.807	2.755	3.156	EF-1 •	1.500	0.345	1.250	0.375	0.000	...	1.22	1.57	0.97	1.1
30	W308M22-H	H	3.008	2.955	3.344	EF-1 •	1.500	0.345	1.250	0.375	0.000	...	1.22	1.57	0.97	1.3
32	W328M22-H	H	3.208	3.155	3.562	CF-1 •	1.500	0.030	1.250	0.000	0.345	...	1.22	1.57	0.97	1.7
34	W348M22-SH	SH	3.409	3.355	3.750	DF-1	1.688	0.092	1.313	0.000	0.408	...	1.22	2.75	0.97	1.3
36	W368M22-SH	SH	3.609	3.556	3.937	DF-1	1.688	0.092	1.313	0.000	0.408	...	1.22	2.82	0.97	1.6
38	W388M22-SH	SH	3.810	3.756	4.156	DF-1	1.688	0.092	1.313	0.000	0.408	...	1.22	3.00	0.97	1.9
40	W408M22-SH	SH	4.010	3.956	4.344	DF-1	1.688	0.092	1.313	0.000	0.408	...	1.22	3.00	0.97	2.3
44	W448M22-SDS	SDS	4.411	4.357	4.750	DF-1	2.000	0.155	1.375	0.000	0.470	...	1.22	3.50	0.97	2.5
48	W488M22-SDS	SDS	4.812	4.757	5.157	DF-1	2.000	0.155	1.375	0.000	0.470	...	1.22	3.80	0.97	3.2
56	W568M22-SDS	SDS	5.614	5.558	5.937	DF-1	2.000	0.155	1.375	0.000	0.470	...	1.22	4.60	0.97	4.6
64	W648M22-SK	SK	6.416	6.359	6.750	DF-1	2.625	0.438	1.938	-0.280	0.250	...	1.22	5.40	0.97	7.7
72	W728M22-SK	SK	7.218	7.160	7.562	DF-1	2.625	0.438	1.938	-0.280	0.250	...	1.22	6.20	0.97	9.1
80	W808M22-SK	SK	8.020	7.961	8.375	DF-2	2.625	0.438	1.938	-0.280	0.250	...	1.22	6.90	0.97	9.1
90	W908M22-SK	SK	9.023	8.963	...	D-2	2.625	0.438	1.938	-0.280	0.250	...	1.22	7.63	...	12.0
112	W1128M22-SK	SK	11.229	11.166	...	D-3	2.625	0.438	1.938	-0.280	0.250	...	1.22	9.88	...	15.3
144	W1448M22-SF	SF	14.447	14.370	...	D-3	2.938	0.563	2.063	-0.280	0.250	...	1.22	12.88	...	19.1
192	W1928M22-E	E	19.249	19.176	...	C-3	3.500	1.202	2.625	0.202	-0.202	...	1.22	17.63	...	38.4

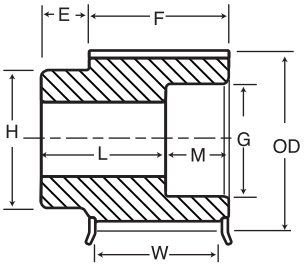
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

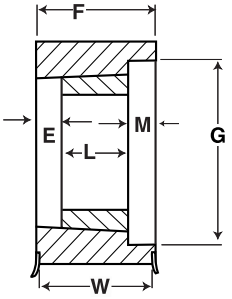
High HP HTS®
Sprockets 8mm

Type MPB



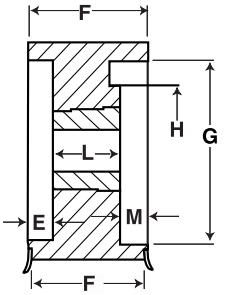
Type MPBF

Type K



Type KF

Type W



Type WF

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
8mm Pitch, 35 mm (1.38in.) Wide Belts (8M - 35)																
22	W228M35-MPB	MPB	2.206	2.154	2.56	MBPF-1	1.188	0.618	2.3500	...	...	1.6250	1.73	...	1.428	1.6
24	W248M35-MPB	MPB	2.406	2.354	2.75	MBPF-1	1.250	0.618	2.3500	...	...	1.8125	1.73	...	1.428	2.0
26	W268M35-MPB	MPB	2.607	2.554	2.94	MBPF-1	1.375	0.618	2.3500	...	...	2.0000	1.73	...	1.428	2.4
28	W288M35-H	H	2.807	2.755	3.16	EF-1 •	1.500	0.855	1.2500	0.375	0.000	...	1.73	1.570	1.428	1.5
30	W308M35-H	H	3.008	2.955	3.34	EF-1 •	1.500	0.855	1.2500	0.375	0.000	...	1.73	1.570	1.428	1.9
32	W328M35-H	H	3.208	3.155	3.56	AF-1 •	1.500	0.245	1.2500	0.235	0.620	...	1.73	1.570	1.428	2.4
34	W348M35-SH	SH	3.409	3.355	3.75	AF-1	1.688	0.120	1.3125	0.298	0.620	...	1.73	2.750	1.428	2.4
36	W368M35-SH	SH	3.609	3.556	3.94	AF-1	1.688	0.120	1.3125	0.298	0.620	...	1.73	2.820	1.428	2.8
38	W388M35-SH	SH	3.810	3.756	4.16	AF-1	1.688	0.120	1.3125	0.298	0.620	...	1.73	3.000	1.428	3.0
40	W408M35-SH	SH	4.010	3.956	4.34	AF-1	1.688	0.120	1.3125	0.298	0.620	...	1.73	3.000	1.428	2.8
44	W448M35-SD	SD	4.411	4.357	4.75	DF-1	2.000	0.313	1.8125	0.232	0.250	...	1.73	3.500	1.428	3.1
48	W488M35-SD	SD	4.812	4.757	5.16	DF-1	2.000	0.313	1.8125	0.232	0.250	...	1.73	3.800	1.428	3.5
56	W568M35-SK	SK	5.614	5.558	5.94	DF-1	2.625	0.438	1.9375	0.230	0.250	...	1.73	4.600	1.428	5.3
64	W648M35-SK	SK	6.416	6.359	6.75	DF-1	2.625	0.438	1.9375	0.230	0.250	...	1.73	5.400	1.428	8.4
72	W728M35-SK	SK	7.218	7.160	7.56	DF-1	2.625	0.438	1.9375	0.230	0.250	...	1.73	6.200	1.428	9.1
80	W808M35-SF	SF	8.020	7.961	8.38	DF-1	2.938	0.563	2.0625	0.230	0.250	...	1.73	6.900	1.428	15.1
90	W908M35-SF	SF	9.023	8.963	...	D-2	2.938	0.563	2.0625	0.230	0.250	...	1.73	7.625	...	20.7
112	W1128M35-SF	SF	11.229	11.166	...	A-3	2.938	0.563	2.0625	0.230	0.250	...	1.73	9.875	...	18.0
144	W1448M35-E	E	14.447	14.370	...	C-3	3.500	0.893	2.6250	0.000	0.107	...	1.73	12.875	...	38.0
192	W1928M35-E	E	19.249	19.176	...	C-3	3.500	0.893	2.6250	0.000	0.107	...	1.73	17.625	...	53.0
8mm Pitch, 60 mm (2.36 in.) Wide Belts (8M-60)																
22	W228M60-MPB	MPB	2.206	2.154	2.562	MPBF-1	1.188	0.619	3.375	...	...	1.625	2.756	...	2.506	2.2
24	W248M60-MPB	MPB	2.406	2.354	2.750	MPBF-1	1.250	0.619	3.375	...	...	1.813	2.756	...	2.506	2.7
26	W268M60-MPB	MPB	2.607	2.554	2.937	MPBF-1	1.375	0.619	3.375	...	...	2.000	2.756	...	2.506	3.3
28	W288M60-MPB	MPB	2.807	2.755	3.156	MPBF-1	1.500	0.619	3.375	...	...	2.281	2.756	...	2.506	4.4
30	W308M60-MPB	MPB	3.008	2.955	3.344	MPBF-1	1.563	0.619	3.375	...	...	2.468	2.756	...	2.506	5.1
32	W328M60-MPB	MPB	3.208	3.155	3.562	MPBF-1	1.625	0.619	3.375	...	...	2.593	2.756	...	2.506	5.9
34	W348M60-MPB	MPB	3.409	3.355	3.750	MPBF-1	1.688	0.619	3.375	...	...	2.796	2.756	...	2.506	6.6
36	W368M60-MPB	MPB	3.609	3.556	3.937	MPBF-1	1.750	0.619	3.375	...	...	3.000	2.756	...	2.506	7.8
36	W368M60-2012	2012*	3.609	3.556	3.937	KF-1	2.000	1.506	1.250	0.000	...	...	2.756	2.820	2.506	2.3
38	W388M60-MPB	MPB	3.810	3.756	4.156	MPBF-1	1.938	0.619	3.375	...	...	3.188	2.756	...	2.506	8.8
38	W388M60-2012	2012*	3.810	3.756	4.156	KF-1	2.000	1.506	1.250	0.000	...	...	2.756	3.000	2.506	2.8
40	W408M60-MPB	MPB	4.010	3.956	4.344	MPBF-1	2.125	0.619	3.375	...	...	3.813	2.756	...	2.506	9.8
40	W408M60-2012	2012*	4.010	3.956	4.344	WF-1	2.000	1.506	1.250	0.000	...	...	2.756	3.000	2.506	2.3
44	W448M60-2517	2517	4.411	4.357	4.750	WF-1	2.500	0.503	1.750	0.503	...	...	2.756	3.500	2.506	5.4
48	W488M60-2517	2517	4.812	4.757	5.157	WF-1	2.500	0.503	1.750	0.503	...	...	2.756	3.800	2.506	3.2
56	W568M60-3020	3020	5.614	5.558	5.937	WF-1	3.000	0.378	2.000	0.378	...	...	2.756	4.600	2.506	6.3
64	W648M60-SF	SF	6.416	6.359	6.750	AF-1	2.938	-0.061	2.063	0.754	0.752	...	2.756	5.400	2.506	9.8
72	W728M60-E	E	7.218	7.160	7.562	AF-1	3.500	0.000	2.625	0.131	1.000	...	2.756	6.200	2.506	12.8
80	W808M60-E	E	8.020	7.961	8.375	AF-1	3.500	0.000	2.625	0.131	1.000	...	2.756	6.900	2.506	19.3
90	W908M60-E	E	9.023	8.963	...	A-1	3.500	0.000	2.625	0.131	1.000	...	2.756	7.625	...	20.7
112	W1128M60-F	F	11.229	11.166	...	C-3	4.000	0.869	3.625	0.000	0.256	...	2.756	9.875	...	50.3
144	W1448M60-F	F	14.447	14.370	...	C-3	4.000	0.869	3.625	0.000	0.256	...	2.756	12.875	...	73.2
192	W1928M60-F	F	19.249	19.176	...	C-3	4.000	0.869	3.625	0.000	0.256	...	2.756	17.625	...	81.3

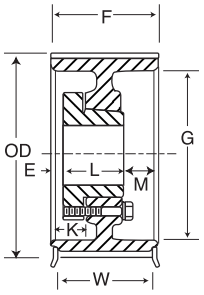
+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

* Weight Shown is for Sprocket Less Bushing.

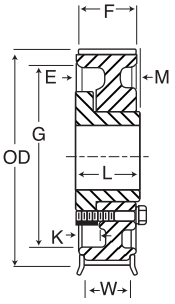
• Reverse Mount Only

High HP HTS® Sprockets 14mm

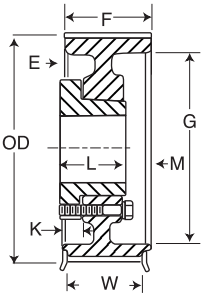
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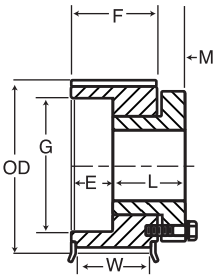
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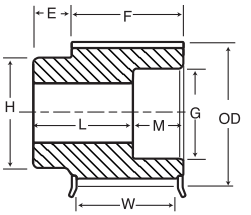
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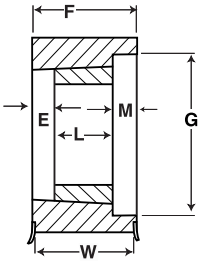
Type E•



Type MPB



Type K



Type AF **Type CF** **Type DF** **Type EF•** **Type MPBF** **Type KF**

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.) O.D.	Diameter (in.) Flange	Type +	Max. Bore	Dimensions (in.) E	L	M	K	H	F	G	W	Weight* Approx. (lbs)
14mm Pitch, 20 mm (.79in.) Wide Belts (14M - 20)																
28	W2814M20-SK	SK	4.912	4.805	5.56	DF-1	2.625	0.688	1.938	-0.030	0.000	..	1.220	2.740	0.908	3.6
29	W2914M20-SK	SK	5.088	4.981	5.56	DF-1	2.625	0.688	1.938	-0.030	0.000	..	1.220	2.740	0.908	4.0
30	W3014M20-SK	SK	5.263	5.156	6.13	DF-1	2.625	0.688	1.938	-0.030	0.000	..	1.220	2.740	0.908	4.4
32	W3214M20-SK	SK	5.614	5.507	6.13	DF-1	2.625	0.688	1.938	-0.030	0.000	..	1.220	2.740	0.908	5.3
34	W3414M20-SK	SK	5.965	5.857	6.5	DF-1	2.625	0.688	1.938	-0.030	0.000	..	1.220	2.740	0.908	6.2
36	W3614M20-SF	SF	6.316	6.208	6.81	CF-1	2.938	0.813	2.063	-0.030	0.000	..	1.220	3.050	0.908	5.7
38	W3814M20-SF	SF	6.667	6.559	7.16	CF-1	2.938	0.813	2.063	-0.030	0.000	..	1.220	3.050	0.908	6.5
40	W4014M20-SF	SF	7.018	6.910	7.5	CF-1	2.938	0.813	2.063	-0.030	0.000	..	1.220	3.050	0.908	7.6
44	W4414M20-E	E	7.720	7.611	8.22	CF-1	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	10.2
48	W4814M20-E	E	8.421	8.312	8.94	CF-1	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	13.0
52	W5214M20-E	E	9.123	9.014	9.69	CF-1	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	16.7
56	W5614M20-E	E	9.825	9.715	10.38	CF-1	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	20.4
60	W6014M20-E	E	10.527	10.417	11.06	CF-1	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	23.6
64	W6414M20-E	E	11.229	11.118	11.75	CF-1	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	27.1
68	W6814M20-E	E	11.930	11.820	12.5	CF-2	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	26.8
72	W7214M20-E	E	12.632	12.521	13.19	CF-2	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	29.6
80	W8014M20-E	E	14.036	13.924	14.63	CF-2	3.500	1.000	2.625	0.405	0.000	..	1.220	...	0.908	35.3
90	W9014M20-E	E	15.790	15.677	...	C-3	3.500	1.188	2.625	0.218	-0.188	..	1.220	13.563	...	36.6
112	W11214M20-E	E	19.650	19.535	...	C-3	3.500	1.188	2.625	0.218	-0.188	..	1.220	17.375	...	48.0
144	W14414M20-E	E	25.264	25.147	...	C-3	3.500	1.188	2.625	0.218	-0.188	..	1.220	23.000	...	59.4
168	W16814M20-F	F	29.475	29.355	...	C-3	4.000	1.563	3.625	0.842	-0.438	..	1.220	27.250	...	98.4
192	W19214M20-J	J	33.686	33.564	...	C-3	4.500	1.938	4.500	1.342	-0.626	..	1.220	31.375	...	147.4
216	W21614M20-J	J	37.896	37.772	...	C-3	4.500	1.938	4.500	1.342	-0.626	..	1.220	35.625	...	155.6
14mm Pitch, 42 mm (1.65 in.) Wide Belts (14M-42)																
28	W2814M42-SK	SK	4.912	4.805	5.56	EF-1 •	2.625	0.837	1.938	0.688	...	..	2.087	2.740	1.774	5.5
29	W2914M42-SK	SK	5.088	4.981	5.56	EF-1 •	2.625	0.837	1.938	0.688	...	..	2.087	2.740	1.774	6.2
30	W3014M42-SK	SK	5.263	5.156	6.13	DF-1	2.625	0.267	1.938	0.416	0.421	..	2.087	3.920	1.774	5.9
32	W3214M42-SK	SK	5.614	5.507	6.13	DF-1	2.625	0.267	1.938	0.416	0.42	..	2.087	3.920	1.774	7.4
34	W3414M42-SF	SF	5.965	5.857	6.50	DF-1	2.938	0.391	2.063	0.415	0.421	..	2.087	3.920	1.774	8.8
36	W3614M42-SF	SF	6.316	6.208	6.81	DF-1	2.938	0.391	2.063	0.415	0.421	..	2.087	4.688	1.774	7.8
38	W3814M42-SF	SF	6.667	6.559	7.16	DF-1	2.938	0.391	2.063	0.415	0.421	..	2.087	4.938	1.774	9.2
40	W4014M42-SF	SF	7.018	6.910	7.50	DF-1	2.938	0.391	2.063	0.415	0.421	..	2.087	5.063	1.774	10.8
44	W4414M42-E	E	7.720	7.611	8.22	DF-1	3.500	0.772	2.625	0.234	0.228	..	2.087	6.125	1.774	13.1
48	W4814M42-E	E	8.421	8.312	8.94	DF-1	3.500	0.772	2.625	0.234	0.228	..	2.087	6.500	1.774	17.2
52	W5214M42-E	E	9.123	9.014	9.69	DF-1	3.500	0.772	2.625	0.234	0.228	..	2.087	7.188	1.774	21.2
56	W5614M42-E	E	9.825	9.715	10.38	DF-1	3.500	0.772	2.625	0.234	0.228	..	2.087	7.875	1.774	25.6
60	W6014M42-E	E	10.527	10.417	11.06	DF-1	3.500	0.772	2.625	0.234	0.228	..	2.087	8.500	1.774	30.3
64	W6414M42-E	E	11.229	11.118	11.75	DF-1	3.500	0.772	2.625	0.234	0.228	..	2.087	9.250	1.774	35.1
68	W6814M42-E	E	11.930	11.820	12.50	DF-2	3.500	0.772	2.625	0.234	0.228	..	2.087	10.000	1.774	33.7
72	W7214M42-E	E	12.632	12.521	13.19	DF-2	3.500	0.772	2.625	0.234	0.228	..	2.087	10.688	1.774	37.3
80	W8014M42-E	E	14.036	13.924	14.63	DF-2	3.500	0.772	2.625	0.234	0.228	..	2.087	12.125	1.774	44.5
90	W9014M42-F	F	15.790	15.677	...	C-3	4.000	1.125	3.625	0.413	...	..	2.087	13.563	...	50.8
112	W11214M42-F	F	19.650	19.535	...	C-3	4.000	1.125	3.625	0.413	...	..	2.087	17.375	...	77.3
144	W14414M42-F	F	25.264	25.147	...	C-3	4.000	1.125	3.625	0.413	...	..	2.087	23.000	...	97.4
168	W16814M42-F	F	29.475	29.355	...	C-3	4.000	1.125	3.625	0.413	...	..	2.087	27.250	...	119.3
192	W19214M42-J	J	33.686	33.564	...	C-3	4.500	1.505	4.500	0.908	..	-0.192	2.087	31.375	...	173.5
216	W21614M42-J	J	37.896	37.772	...	C-3	4.500	1.505	4.500	0.908	..	-0.192	2.087	35.625	...	206.0

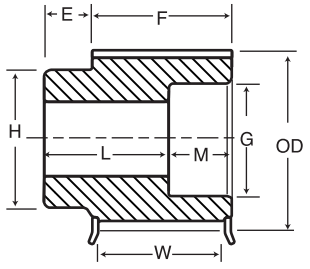
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

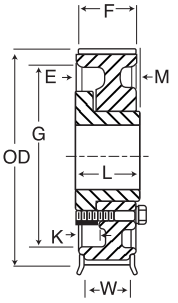
High HP HTS®
Sprockets 14mm

Type MPB



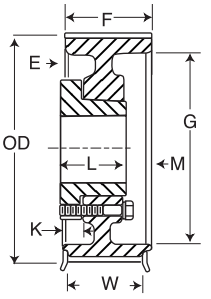
Type MPBF

Type C



Type CF

Type D



Type DF

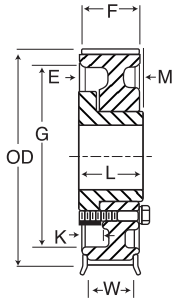
14mm Pitch, 65 mm (2.56in.) Wide Belts (14M - 65)																
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.)		Type +	Max. Bore	Dimensions (in.)								Weight* Approx. (lbs)
				O.D.	Flange			E	L	M	K	H	F	G	W	
28	W2814M65-MPB	MPB	4.912	4.805	5.56	MPBF-1	2.313	1.000	4.032	0.000	-	3.688	3.032	0.000	2.719	15.0
29	W2914M65-MPB	MPB	5.088	4.981	5.56	MPBF-1	2.313	1.000	4.032	0.000	-	3.688	3.032	0.000	2.719	16.0
30	W3014M65-MPB	MPB	5.263	5.156	6.13	MPBF-1	2.500	1.000	4.032	0.000	-	4.141	3.032	0.000	2.719	18.0
32	W3214M65-MPB	MPB	5.614	5.507	6.13	MPBF-1	2.500	1.000	4.032	0.000	-	4.141	3.032	0.000	2.719	20.2
34	W3414M65-MPB	MPB	5.965	5.857	6.50	MPBF-1	2.688	1.000	4.032	0.000	-	4.484	3.032	0.000	2.719	23.4
36	W3614M65-MPB	MPB	6.316	6.208	6.81	MPBF-1	3.000	1.000	4.032	0.000	-	4.875	3.032	0.000	2.719	24.5
36	W3614M65-3030	3030*	6.316	6.208	6.81	MPBF-1	3.000	0.032	3.000	0.000	-	0.000	3.032	0.000	2.719	10.8
38	W3814M65-MPB	MPB	6.667	6.559	7.16	MPBF-1	3.250	1.000	4.032	0.000	-	5.172	3.032	0.000	2.719	27.6
38	W3814M65-3030	3030*	6.667	6.559	7.16	MPBF-1	3.000	0.032	3.000	0.000	-	0.000	3.032	0.000	2.719	13.4
40	W4014M65-MPB	MPB	7.018	6.910	7.50	MPBF-1	3.438	1.000	4.032	0.000	-	5.563	3.032	0.000	2.719	31.5
40	W4014M65-3535	3535*	7.018	6.910	7.50	CF-1	3.500	0.468	3.500	0.000	-	6.125	3.032	3.875	2.719	13.2
44	W4414M65-E	E	7.720	7.611	8.22	DF-1	3.500	0.125	2.625	0.532	0.875	...	3.032	6.125	2.719	16.2
48	W4814M65-E	E	8.421	8.312	8.94	DF-1	3.500	0.125	2.625	0.532	0.875	...	3.032	6.500	2.719	21.4
52	W5214M65-E	E	9.123	9.014	9.69	DF-1	3.500	0.125	2.625	0.532	0.875	...	3.032	7.188	2.719	25.9
56	W5614M65-F	F	9.825	9.715	10.38	CF-1	4.000	0.594	3.625	0.000	0.531	...	3.032	7.875	2.719	36.3
60	W6014M65-F	F	10.527	10.417	11.06	CF-1	4.000	0.594	3.625	0.000	0.531	...	3.032	8.500	2.719	43.5
64	W6414M65-F	F	11.229	11.118	11.75	CF-1	4.000	0.594	3.625	0.000	0.531	...	3.032	9.250	2.719	51.0
68	W6814M65-F	F	11.930	11.820	12.50	CF-2	4.000	0.594	3.625	0.000	0.531	7.750	3.032	10.000	2.719	47.9
72	W7214M65-F	F	12.632	12.521	13.19	CF-2	4.000	0.594	3.625	0.000	0.531	7.750	3.032	10.688	2.719	52.7
80	W8014M65-F	F	14.036	13.924	14.63	CF-2	4.000	0.594	3.625	0.000	0.531	7.750	3.032	12.125	2.719	61.2
90	W9014M65-F	F	15.790	15.677	...	C-3	4.000	0.594	3.625	0.000	0.531	7.750	3.032	13.563	...	59.8
112	W11214M65-J	J	19.650	19.535	...	C-3	4.500	1.250	4.500	0.219	0.063	9.000	3.032	17.375	...	104.2
144	W14414M65-M	M	25.264	25.147	...	C-3	5.500	2.063	6.750	1.657	-0.500	11.375	3.032	23.000	...	197.3
168	W16814M65-M	M	29.475	29.355	...	C-3	5.500	2.063	6.750	1.657	-0.500	11.375	3.032	27.250	...	207.0
192	W19214M65-M	M	33.686	33.564	...	C-3	5.500	2.063	6.750	1.657	-0.500	11.375	3.032	31.375	...	173.5
216	W21614M65-M	M	37.896	37.772	...	C-3	5.500	2.063	6.750	1.657	-0.500	11.375	3.032	35.625	...	253.0

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

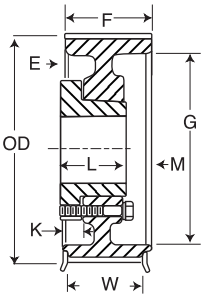
High HP HTS® Sprockets 14mm

Type C



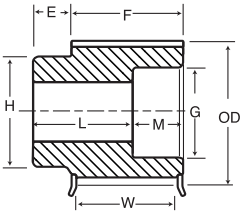
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Type D



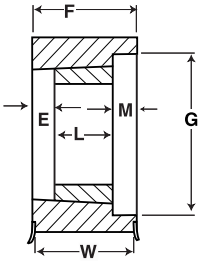
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Type MPBF

Type K



Type KF

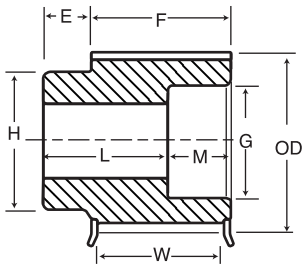
14mm Pitch, 90 mm (3.54 in.) Wide Belts (14M-90)																
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.)		Type +	Max. Bore	Dimensions (in.)								Weight* Approx. (lbs)
				O.D.	Flange			E	L	M	K	H	F	G	W	
28	W2814M90-MPB	MPB	4.912	4.805	5.56	MPBF-1	2.313	1.000	5.055	...	...	3.688	4.055	0.000	3.743	18.9
29	W2914M90-MPB	MPB	5.088	4.981	5.56	MPBF-1	2.313	1.000	5.055	...	...	3.688	4.055	0.000	3.743	20.2
30	W3014M90-MPB	MPB	5.263	5.156	6.13	MPBF-1	2.500	1.000	5.055	...	...	4.141	4.055	0.000	3.743	10.9
32	W3214M90-MPB	MPB	5.614	5.507	6.13	MPBF-1	2.500	1.000	5.055	...	...	4.141	4.055	0.000	3.743	13.9
34	W3414M90-MPB	MPB	5.965	5.857	6.50	MPBF-1	2.688	1.000	5.055	...	...	4.484	4.055	0.000	3.743	16.7
36	W3614M90-MPB	MPB	6.316	6.208	6.81	MPBF-1	3.000	1.000	5.055	...	...	4.875	4.055	0.000	3.743	31.4
38	W3814M90-MPB	MPB	6.667	6.559	7.16	MPBF-1	3.250	1.000	5.055	...	...	5.172	4.055	4.938	3.743	35.5
40	W4014M90-3535	3535	7.018	6.910	7.50	KF-1	3.500	0.555	3.500	0.000	...	...	4.055	...	3.743	17.1
44	W4414M90-3535	3535	7.720	7.611	8.22	KF-1	4.000	0.555	3.500	0.000	...	...	4.055	...	3.743	24.8
48	W4814M90-4040	4040	8.421	8.312	8.94	KF-1	4.000	0.055	4.000	0.000	...	...	4.055	...	3.743	27.0
52	W5214M90-F	F	9.123	9.014	9.69	DF-1	4.000	0.347	3.625	0.778	0.778	...	4.055	7.188	3.743	34.7
56	W5614M90-F	F	9.825	9.715	10.38	DF-1	4.000	0.347	3.625	0.778	0.778	...	4.055	7.875	3.743	36.3
60	W6014M90-F	F	10.527	10.417	11.06	DF-1	4.000	0.347	3.625	0.778	0.778	...	4.055	8.500	3.743	49.8
64	W6414M90-F	F	11.229	11.118	11.75	DF-1	4.000	0.347	3.625	0.778	0.778	...	4.055	9.250	3.743	57.6
68	W6814M90-F	F	11.930	11.820	12.50	DF-2	4.000	0.347	3.625	0.778	0.778	...	4.055	10.000	3.743	54.8
72	W7214M90-F	F	12.632	12.521	13.19	DF-2	4.000	0.347	3.625	0.778	0.778	...	4.055	10.688	3.743	60.0
80	W8014M90-J	J	14.036	13.924	14.63	CF-2	4.500	0.375	4.500	0.070	0.938	...	4.055	12.125	3.743	81.5
90	W9014M90-J	J	15.790	15.677	...	C-3	4.500	0.375	4.500	0.070	0.938	...	4.055	13.563	...	77.4
112	W11214M90-J	J	19.650	19.535	...	C-3	4.500	0.375	4.500	0.070	0.938	...	4.055	17.375	...	116.2
144	W14414M90-M	M	25.264	25.147	...	C-3	5.500	1.563	6.750	1.132	0.000	11.375	4.055	23.000	...	220.0
168	W16814M90-M	M	29.475	29.355	...	C-3	5.500	1.563	6.750	1.132	0.000	11.375	4.055	27.250	...	207.0
192	W19214M90-M	M	33.686	33.564	...	C-3	5.500	1.563	6.750	1.132	0.000	11.375	4.055	31.375	...	268.4
216	W21614M90-M	M	37.896	37.772	...	C-3	5.500	1.563	6.750	1.132	0.000	11.375	4.055	35.625	...	278.1

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

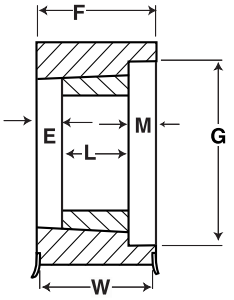
High HP HTS®
Sprockets 14mm

Type MPB



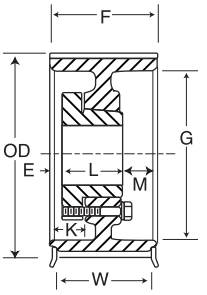
Type MPBF

Type K



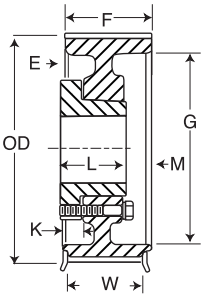
Type KF

TypeA



TypeAF

Type D



Type DF

14mm Pitch, 120 mm (4.72 in.) Wide Belts (14M-120)																
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter (in.)		Type +	Max. Bore	Dimensions (in.)								Weight* Approx. (lbs)
				O.D.	Flange			E	L	M	K	H	F	G	W	
28	W2814M120-MPB	MPB	4.912	4.805	5.56	MPBF-1	2.313	1.000	4.986	1.250	...	3.688	5.236	3.125	4.924	22.0
29	W2914M120-MPB	MPB	5.088	4.981	5.56	MPBF-1	2.313	1.000	4.986	1.250	...	3.688	5.236	3.125	4.924	23.8
30	W3014M120-MPB	MPB	5.263	5.156	6.13	MPBF-1	2.500	1.000	4.986	1.250	...	4.141	5.236	3.906	4.924	25.1
32	W3214M120-MPB	MPB	5.614	5.507	6.13	MPBF-1	2.500	1.000	4.986	1.250	...	4.141	5.236	3.906	4.924	29.0
34	W3414M120-MPB	MPB	5.965	5.857	6.50	MPBF-1	2.688	1.000	4.986	1.250	...	4.484	5.236	4.063	4.924	33.7
36	W3614M120-MPB	MPB	6.316	6.208	6.81	MPBF-1	3.000	1.000	4.986	1.250	...	4.875	5.236	4.688	4.924	34.0
38	W3814M120-MPB	MPB	6.667	6.559	7.16	MPBF-1	3.250	1.000	4.986	1.250	...	5.172	5.236	4.938	4.924	38.4
40	W4014M120-MPB	MPB	7.018	6.910	7.50	MPBF-1	3.438	1.000	4.986	1.250	...	5.563	5.236	5.063	4.924	43.4
44	W4414M120-3535	3535	7.720	7.611	8.22	KF-1	4.000	0.868	3.500	0.868	...	...	5.236	5.875	4.924	24.8
48	W4814M120-4040	4040	8.421	8.312	8.94	KF-1	4.000	0.618	4.000	0.618	...	...	5.236	6.625	4.924	31.8
52	W5214M120-F	F	9.123	9.014	9.69	AF-1	4.000	1.125	3.625	1.361	1.375	...	5.236	7.188	4.924	34.7
56	W5614M120-F	F	9.825	9.715	10.38	AF-1	4.000	1.125	3.625	1.361	1.375	...	5.236	7.875	4.924	48.4
60	W6014M120-F	F	10.527	10.417	11.06	AF-1	4.000	1.125	3.625	1.361	1.375	...	5.236	8.500	4.924	57.1
64	W6414M120-J	J	11.229	11.118	11.75	DF-1	4.500	0.293	4.500	1.029	1.020	...	5.236	9.250	4.924	69.7
68	W6814M120-J	J	11.930	11.820	12.50	DF-1	4.500	0.293	4.500	1.029	1.020	...	5.236	10.000	4.924	80.4
72	W7214M120-J	J	12.632	12.521	13.19	DF-1	4.500	0.293	4.500	1.029	1.020	...	5.236	10.688	4.924	92.2
80	W8014M120-J	J	14.036	13.924	14.63	DF-2	4.500	0.293	4.500	1.029	1.020	...	5.236	12.125	4.924	92.5
90	W9014M120-M	M	15.790	15.677	...	C-2	5.500	1.514	6.750	0.000	0.049	10.000	5.236	13.563	...	134.5
112	W11214M120-M	M	19.650	19.535	...	C-3	5.500	1.514	6.750	0.000	0.049	11.375	5.236	17.375	...	193.4
144	W14414M120-M	M	25.264	25.147	...	C-3	5.500	1.514	6.750	0.000	0.049	11.375	5.236	23.000	...	234.6
168	W16814M120-M	M	29.475	29.355	...	C-3	5.500	1.514	6.750	0.000	0.049	11.375	5.236	27.250	...	245.8
192	W19214M120-N	N	33.686	33.564	...	C-3	6.000	1.875	8.125	1.014	0.000	12.000	5.236	31.375	...	381.5

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

MPC® Synchronous Sprockets



PB 8MX 22S 12 - SH

Bore Style
PB - Minimum Plain Bore
No prefix - QD or Taper Bushed

Belt Pitch
8mm
14mm

Number of Teeth
"S" identifies it as an MPC sprocket

Belt Width
12, 21, 36, 62
20, 37, 68, 90, 125

Bushing Options
QD - JA, SH, SDS. . .S
TB - 1008, 1108. . .120100

Introducing our newest synchronous sprocket.

The addition of our MPC® sprocket line makes Martin your one-stop-shop for all your synchronous sprocket needs. Match your sprocket to your favorite belt.

MPC® Synchronous Sprockets are available in your desired configu ation.

- Available in 8mm and 14mm pitches.
- Belt widths:

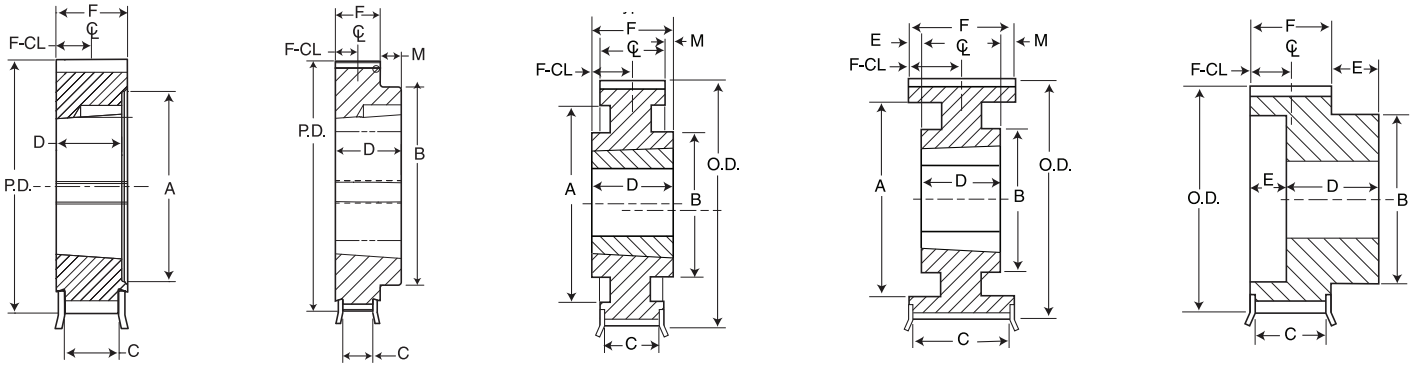
  12mm, 21mm, 36mm, 62mm (8mm pitch)

  20mm, 37mm, 68mm, 90mm, 125mm

  (14mm pitch)
- Available in QD, TB or other special adapters.
- Special diameters and widths, as well as special materials, are also available.

MPC® Sprockets
8mm

Martin



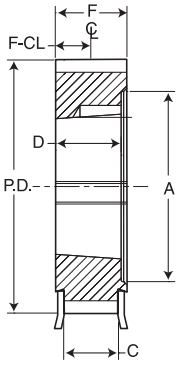
8mm Pitch — 12mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MBP 8mm Pitch, 12mm (0.47 in.) Wide Belts (8M -12)																
22	PB8MX22S12	1/2	2.206	2.143	2.610	6F-1	1.188		1.79	0.57	1.31	0.46	0.82	0.41	1.1	29
25	PB8MX25S12	1/2	2.506	2.443	2.910	6F-1	1.500		2.08	0.57	1.31	0.46	0.82	0.41	1.5	31
28	PB8MX28S12	1/2	2.807	2.744	3.210	6F-1	1.750		2.34	0.57	1.31	0.46	0.82	0.41	1.9	35
30	PB8MX30S12	1/2	3.008	2.945	3.410	6F-1	1.813		2.54	0.57	1.42	0.57	0.82	0.41	2.3	41
32	PB8MX32S12	1/2	3.208	3.145	3.610	6F-1	2.000		2.73	0.57	1.42	0.57	0.82	0.41	2.7	47
Taper Bushed 8mm Pitch, 12mm (0.47 in.) Wide Belts (8M -12)																
22	8MX22S12-1008	1008	2.206	2.143	2.610	AF-1	1.000			0.63	0.88		0.88		0.44	0.5
25	8MX25S12-1108	1108	2.506	2.443	2.910	AF-1	1.125			0.63	0.88		0.88		0.44	0.7
26	8MX26S12-1108	1108	2.607	2.906	2.906	AF-1	1.125			0.63	0.88		0.88		0.44	0.8
27	8MX27S12-1108	1108	2.707	2.644	3.207	AF-1	1.125			0.63	0.88		0.88		0.44	0.9
28	8MX28S12-1108	1108	2.807	2.744	3.210	AF-1	1.125			0.63	0.88		0.88		0.44	1.0
29	8MX29S12-1108	1108	2.907	2.844	3.090	AF-1	1.125			0.63	0.88		0.88		0.44	1.2
30	8MX30S12-1108	1108	3.008	2.945	3.410	AF-1	1.125			0.63	0.88		0.88		0.44	1.3
31	8MX31S12-1210	1210	3.108	3.045	3.328	AF-1	1.250			0.75	1.00		1.00		0.50	1.3
32	8MX32S12-1210	1210	3.208	3.145	3.610	AF-1	1.250			0.75	1.00		1.00		0.50	1.4
33	8MX33S12-1610	1610	3.308	3.245	3.566	AF-1	1.625			0.75	1.00		1.00		0.50	1.3
34	8MX34S12-1610	1610	3.409	3.346	3.810	AF-1	1.625			0.75	1.00		1.00		0.50	1.3
35	8MX35S12-1610	1610	3.509	3.446	3.805	AF-1	1.625			0.75	1.00		1.00		0.50	1.3
36	8MX36S12-1610	1610	3.609	3.456	4.010	AF-1	1.625			0.75	1.00		1.00		0.50	1.2
37	8MX37S12-1610	1610	3.709	3.646	4.044	AF-1	1.625			0.75	1.00		1.00		0.50	1.6
38	8MX38S12-1610	1610	3.810	3.747	4.210	AF-1	1.625			0.75	1.00		1.00		0.50	1.7
39	8MX39S12-1610	1610	3.910	3.847	4.410	AF-1	1.625			0.75	1.00		1.00		0.50	1.7
40	8MX40S12-2012	2012	4.010	3.947	4.410	BF-1	2.000		3.56	0.57	1.25		0.82	0.43	0.41	1.7
41	8MX41S12-2012	2012	4.110	4.047	4.520	BF-1	2.000		3.65	0.65	1.25		0.82	0.43	0.41	1.8
42	8MX42S12-2012	2012	4.211	4.148	4.910	BF-1	2.000		3.76	0.57	1.25		0.82	0.43	0.41	2.2
45	8MX45S12-2012	2012	4.511	4.448	4.910	BF-1	2.000		3.76	0.57	1.25		0.82	0.43	0.41	2.5
48	8MX48S12-2012	2012	4.812	4.749	5.210	BF-1	2.000		3.76	0.57	1.25		0.82	0.43	0.41	3.4
50	8MX50S12-2012	2012	5.013	4.950	5.410	BF-1	2.000		3.76	0.57	1.25		0.82	0.43	0.41	3.7
53	8MX53S12-2012	2012	5.314	5.251	5.500	BF-1	2.000		3.76	0.57	1.25		0.82	0.43	0.41	4.7
56	8MX56S12-2012	2012	5.614	5.551	6.010	BF-1	2.000		3.76	0.57	1.25		0.82	0.43	0.41	5.4
60	8MX60S12-2012	2012	6.015	5.952	6.410	BF-1	2.000		3.76	0.57	1.25		0.82	0.43	0.41	6.3
63	8MX63S12-2012	2012	6.316	6.253	6.720	CF-1	2.000	5.71	4.00	0.57	1.25		0.82	0.43	0.41	5.6
67	8MX67S12-2012	2012	6.717	6.654	6.870	CF-1	2.000	6.14	4.00	0.57	1.25		0.82	0.43	0.41	4.3
71	8MX71S12-2012	2012	7.118	7.055	7.500	CF-1	2.000	6.51	4.00	0.57	1.25		0.82	0.43	0.41	4.7
75	8MX75S12-2012	2012	7.519	7.456	7.920	CF-1	2.000	6.90	4.00	0.57	1.25		0.82	0.43	0.41	5.1
80	8MX80S12-2012	2012	8.020	7.957	8.420	CF-1	2.000	7.23	4.00	0.57	1.25		0.82	0.43	0.41	5.8
90	8MX90S12-2012	2012	9.023	8.96	-	C-2	2.000	8.05	4.00		1.25		0.82	0.43	0.41	9.4
112	8MX112S12-2012	2012	11.229	11.166	-	C-2	2.000	10.25	4.00		1.25		0.82	0.43	0.41	16.6
140	8MX140S12-2012	2012	14.036	13.973	-	C-3	2.000	11.96	4.38		1.25		0.82	0.43	0.41	17.3
180	8MX180S12-2517	2517	18.046	17.893	-	C-3	2.500	15.80	4.88		1.75		0.82	0.93	0.41	30.0
224	8MX224S12-2517	2517	22.457	22.394	-	C-3	2.500	20.17	4.88		1.75		0.82	0.93	0.41	41.2

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

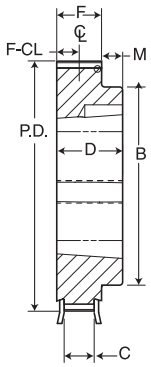
MPC® Sprockets 8mm

Type A



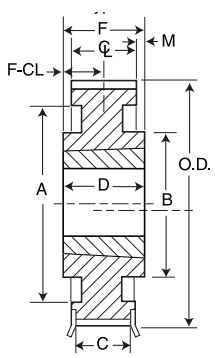
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Type B



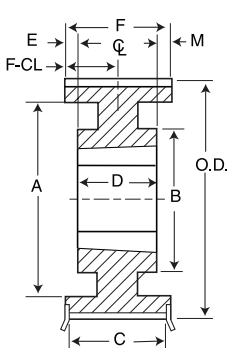
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Type C



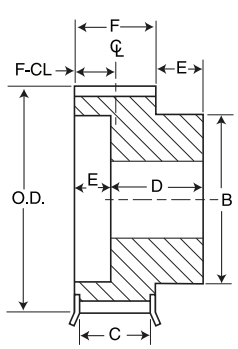
Type CF

Type D



Type DF

Type 6



Type 6F

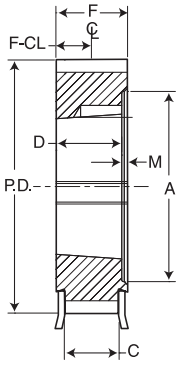
8mm Pitch — 21mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MBP 8mm Pitch, 21mm (0.83 in.) Wide Belts (8M -21)																
22	PB8MX22S21	MPB	2.206	2.143	2.610	6F-1	1.188		1.79	0.92	1.65	0.45	1.20		0.60	1.3
25	PB8MX25S21	MPB	2.506	2.443	2.910	6F-1	1.500		2.08	0.92	1.65	0.45	1.20		0.60	1.8
28	PB8MX28S21	MPB	2.807	2.744	3.210	6F-1	1.750		2.34	0.92	1.65	0.45	1.20		0.60	2.3
30	PB8MX30S21	MPB	3.008	2.945	3.410	6F-1	1.813		2.54	0.92	1.77	0.57	1.20		0.60	2.8
32	PB8MX32S21	MPB	3.208	3.145	3.610	6F-1	2.000		2.73	0.92	1.77	0.57	1.20		0.60	3.2
Taper Bushed 8mm Pitch, 21mm (0.83 in.) Wide Belts (8M -21)																
22	8MX22S21-1008	1008	2.206	2.143	2.610	AF-1	1.000	1.63		0.92	0.88		1.20		0.60	0.6
25	8MX25S21-1108	1108	2.506	2.443	2.910	AF-1	1.125	1.92		0.92	0.88		1.20		0.60	0.8
26	8MX26S21-1108	1108	2.607	2.906	2.906	AF-1	1.125	1.85		0.92	0.88		1.20		0.60	0.8
27	8MX27S21-1108	1108	2.707	2.644	3.207	AF-1	1.125	1.95		0.92	0.88		1.20		0.60	1.0
28	8MX28S21-1108	1108	2.807	2.744	3.210	AF-1	1.125	2.18		0.92	0.88		1.20		0.60	1.1
29	8MX29S21-1108	1108	2.907	2.844	3.090	AF-1	1.125	2.15		0.92	0.88		1.20		0.60	1.4
30	8MX30S21-1108	1108	3.008	2.945	3.410	AF-1	1.125	2.38		0.92	0.88		1.20		0.60	1.5
31	8MX31S21-1210	1210	3.108	3.045	3.328	AF-1	1.250	2.35		0.92	1.00		1.20		0.60	1.6
32	8MX32S21-1210	1210	3.208	3.145	3.610	AF-1	1.250	2.58		0.92	1.00		1.20		0.60	3.0
33	8MX33S21-1610	1610	3.308	3.245	3.566	AF-1	1.625	2.6		0.92	1.00		1.20		0.60	1.4
34	8MX34S21-1610	1610	3.409	3.346	3.810	AF-1	1.625	2.66		0.92	1.00		1.20		0.60	1.9
35	8MX35S21-1610	1610	3.509	3.446	3.805	AF-1	1.625	2.75		0.92	1.00		1.20		0.60	1.5
36	8MX36S21-1610	1610	3.609	3.456	4.010	AF-1	1.625	2.96		0.92	1.00		1.20		0.60	1.6
37	8MX37S21-1610	1610	3.709	3.646	4.044	AF-1	1.625	2.95		0.92	1.00		1.20		0.60	1.7
38	8MX38S21-1610	1610	3.810	3.747	4.210	AF-1	1.625	3.15		0.92	1.00		1.20		0.60	1.9
39	8MX39S21-1610	1610	3.910	3.847	4.410	AF-1	1.625	3.14		0.92	1.00		1.20		0.60	2.0
40	8MX40S21-2012	2012	4.010	3.947	4.410	AF-1	2.000			0.97	1.25		1.25		0.63	2.0
41	8MX41S21-2012	2012	4.110	4.047	4.520	BF-1	2.000		3.4	1.00	1.25		1.20		0.60	2.2
42	8MX42S21-2012	2012	4.211	4.148	4.910	AF-1	2.000			0.97	1.25		1.25		0.63	2.4
45	8MX45S21-2012	2012	4.511	4.448	4.910	AF-1	2.000			0.97	1.25		1.25		0.63	3.0
48	8MX48S21-2012	2012	4.812	4.749	5.210	AF-1	2.000			0.97	1.25		1.25		0.63	3.4
50	8MX50S21-2012	2012	5.013	4.950	5.410	AF-1	2.000			0.97	1.25		1.25		0.63	4.2
53	8MX53S21-2012	2012	5.314	5.251	5.500	AF-1	2.000			0.97	1.25		1.25		0.63	5.0
56	8MX56S21-2012	2012	5.614	5.551	6.010	AF-1	2.000			0.97	1.25		1.25		0.63	4.9
60	8MX60S21-2012	2012	6.015	5.952	6.410	AF-1	2.000			0.97	1.25		1.25		0.63	6.9
63	8MX63S21-2012	2012	6.316	6.253	6.720	CF-1	2.000	5.71	3.76	0.92	1.25		1.20	0.05	0.60	7.7
67	8MX67S21-2517	2517	6.717	6.654	6.870	CF-1	2.500	6.14	4.50	0.92	1.75		1.20	0.55	0.60	5.7
71	8MX71S21-2517	2517	7.118	7.055	7.500	CF-1	2.500	6.51	4.50	0.92	1.75		1.20	0.55	0.60	6.1
75	8MX75S21-2517	2517	7.519	7.456	7.920	CF-1	2.500	6.90	4.50	0.92	1.75		1.20	0.55	0.60	9.2
80	8MX80S21-2517	2517	8.020	7.957	8.420	CF-1	2.500	7.23	4.50	0.92	1.75		1.20	0.55	0.60	7.5
90	8MX90S21-2517	2517	9.023	8.96	-	C-2	2.500	7.78	4.50		1.75		1.20	0.55	0.60	11.0
112	8MX112S21-2517	2517	11.229	11.166	-	C-2	2.500	10.00	4.50		1.75		1.20	0.55	0.60	19.4
140	8MX140S21-2517	2517	14.036	13.973	-	C-3	2.500	11.74	4.88		1.75		1.20	0.55	0.60	26.8
180	8MX180S21-3020	3020	18.046	17.893	-	C-3	3.000	15.49	6.25		2.00		1.20	0.80	0.60	36.6
224	8MX224S21-3020	3020	22.457	22.394	-	C-3	3.000	19.86	6.25		2.00		1.20	0.80	0.60	50.1

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

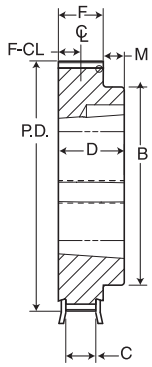
MPC® Sprockets
8mm

Type A



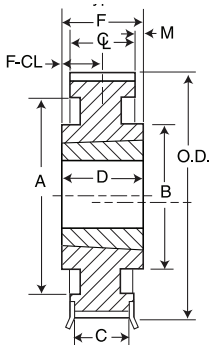
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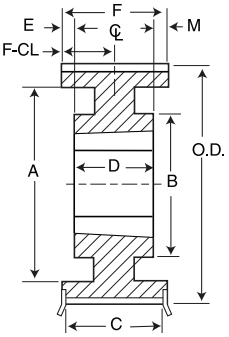
Type BF

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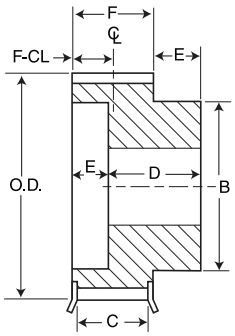
Type CF

Type D



Type DF

Type 6



Type 6F

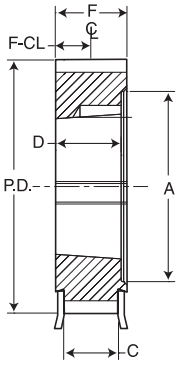
8mm Pitch — 36mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MBP 8mm Pitch, 36mm (1.42 in.) Wide Belts (8M -36)																
22	PB8MX22S36	MPB	2.206	2.143	2.610	6F-1	1.188		1.79	1.58	2.44	0.61	1.83		0.93	2.0
25	PB8MX25S36	MPB	2.506	2.443	2.910	6F-1	1.500		2.08	1.58	2.44	0.61	1.83		0.93	2.7
28	PB8MX28S36	MPB	2.807	2.744	3.210	6F-1	1.750		2.34	1.58	2.44	0.61	1.83		0.93	3.5
30	PB8MX30S36	MPB	3.008	2.945	3.410	6F-1	1.813		2.54	1.58	2.44	0.61	1.83		0.93	4.1
32	PB8MX32S36	MPB	3.208	3.145	3.610	6F-1	2.000		2.73	1.58	2.44	0.61	1.83		0.93	3.9
Taper Bushed 8mm Pitch, 36mm (1.42 in.) Wide Belts (8M -36)																
32	8MX32S36-1210	1210	3.208	3.145	3.610	AF-1	1.250	2.58		1.58	1.00		1.83	0.83	0.93	2.0
33	8MX33S36-1610	1610	3.308	3.245	3.566	AF-1	1.625	2.56		1.66	1.00		1.83	0.83	0.93	1.7
34	8MX34S36-1610	1610	3.409	3.346	3.810	AF-1	1.625	2.66		1.58	1.00		1.83	0.83	0.93	1.8
35	8MX35S36-1610	1610	3.509	3.446	3.805	AF-1	1.625	2.76		1.66	1.00		1.83	0.83	0.93	2.0
36	8MX36S36-1610	1610	3.609	3.546	4.010	AF-1	1.625	2.96		1.58	1.00		1.83	0.83	0.93	2.7
37	8MX37S36-1610	1610	3.709	3.646	4.044	AF-1	1.625	2.90		1.66	1.00		1.83	0.83	0.93	2.1
38	8MX38S36-1610	1610	3.810	3.747	4.210	AF-1	1.625	3.15		1.58	1.00		1.83	0.83	0.93	2.9
39	8MX39S36-1610	1610	3.910	3.847	4.410	AF-1	1.625	3.10		1.58	1.00		1.83	0.83	0.93	2.4
40	8MX40S36-2012	2012	4.010	3.947	4.410	AF-1	2.000	3.35		1.58	1.25		1.83	0.58	0.93	2.5
41	8MX41S36-2012	2012	4.110	4.047	4.520	AF-1	2.000	3.36		1.58	1.25		1.83	0.58	0.93	2.4
42	8MX42S36-2012	2012	4.211	4.148	4.910	AF-1	2.000	3.62		1.58	1.25		1.83	0.58	0.93	2.8
45	8MX45S36-2012	2012	4.511	4.448	4.910	AF-1	2.000	3.62		1.58	1.25		1.83	0.58	0.93	4.0
48	8MX48S36-2012	2012	4.812	4.749	5.210	AF-1	2.000	4.14		1.58	1.25		1.83	0.58	0.93	4.3
50	8MX50S36-2012	2012	5.013	4.95	5.410	AF-1	2.000	4.13		1.58	1.25		1.83	0.58	0.93	5.1
53	8MX53S36-2012	2012	5.314	5.251	5.500	AF-1	2.000	4.76		1.58	1.25		1.83	0.58	0.93	6.0
56	8MX56S36-2012	2012	5.614	5.551	6.010	AF-1	2.000	4.92		1.58	1.25		1.83	0.58	0.93	6.5
60	8MX60S36-2517	2517	6.015	5.952	6.420	AF-1	2.500	5.13		1.58	1.75		1.83	0.58	0.93	8.9
63	8MX63S36-2517	2517	6.316	6.253	6.720	AF-1	2.500	5.71		1.58	1.75		1.83	0.08	0.93	9.3
67	8MX67S36-2517	2517	6.717	6.654	6.880	DF-1	2.500	5.98	4.25	1.58	1.75		1.83	0.08	0.93	10.0
71	8MX71S36-2517	2517	7.118	7.055	7.500	DF-1	2.500	6.39	4.25	1.58	1.75		1.83	0.08	0.93	7.0
75	8MX75S36-2517	2517	7.519	7.456	7.920	DF-1	2.500	6.79	4.25	1.58	1.75		1.83	0.08	0.93	13.3
80	8MX80S36-3020	3020	8.020	7.957	8.420	BF-1	3.000		5.75	1.58	2.00		1.83	0.08	0.93	15.3
90	8MX90S36-3020	3020	9.023	8.960	-	B-1	3.000		5.75		2.00		1.83	0.17	0.93	20.9
112	8MX112S36-3020	3020	11.229	11.166	-	C-2	3.000	9.80	5.75		2.00		1.83	0.17	0.93	22.0
140	8MX140S36-3020	3020	14.036	13.973	-	C-3	3.000	11.72	6.25		2.00		1.83	0.17	0.93	39.3
180	8MX180S36-3020	3020	18.046	17.983	-	C-3	3.000	15.31	6.25		2.00		1.83	0.17	0.93	48.9
224	8MX224S36-3525	3525	22.457	22.394	-	C-3	3.500	19.62	8.75		2.50		1.83	0.67	0.93	92.2

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

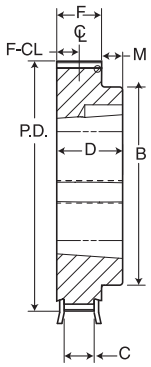
MPC® Sprockets 8mm

Type A



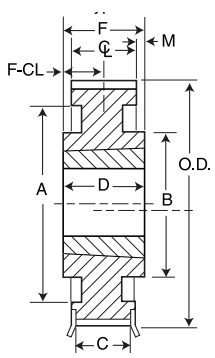
Type AF

Type B



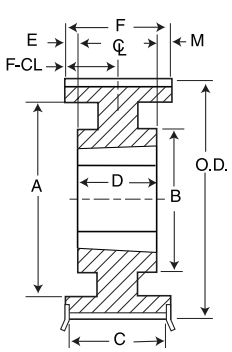
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Type C



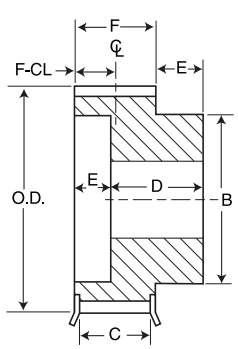
Type CF

Type D



Type DF

Type 6



Type 6F

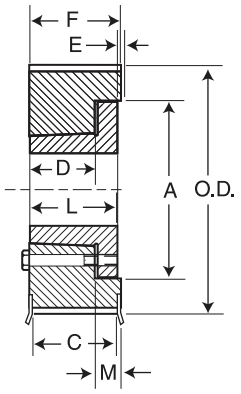
8mm Pitch — 62mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MPB 8mm Pitch, 62 mm (2.44 in.) Wide Belts (8M - 62)																
22	PB8MX22S62	MPB	2.206	2.143	2.610	6F-1	1.188		1.79	2.63	3.56	0.68	2.88		1.46	2.4
25	PB8MX25S62	MPB	2.506	2.443	2.910	6F-1	1.500		2.08	2.63	3.56	0.68	2.88		1.46	3.6
28	PB8MX28S62	MPB	2.807	2.744	3.210	6F-1	1.750		2.34	2.63	3.56	0.68	2.88		1.46	4.6
30	PB8MX30S62	MPB	3.008	2.945	3.410	6F-1	1.813		2.54	2.63	3.50	0.62	2.88		1.46	5.3
32	PB8MX32S62	MPB	3.208	3.145	3.610	6F-1	2.000		2.73	2.63	3.50	0.62	2.88		1.46	5.6
34	PB8MX34S62	MPB	3.409	3.346	3.810	6F-1	2.125		2.82	2.63	3.50	0.62	2.88		1.46	5.7
36	PB8MX36S62	MPB	3.609	3.546	4.010	6F-1	2.313		3.13	2.63	3.56	0.68	2.88		1.46	8.0
38	PB8MX38S62	MPB	3.812	3.747	4.210	6F-1	2.438		3.32	2.63	3.56	0.68	2.88		1.46	9.1
40	PB8MX40S62	MPB	4.010	3.947	4.410	6F-1	2.563		3.52	2.63	3.63	0.75	2.88		1.46	10.3
42	PB8MX42S62	MPB	4.211	4.148	4.910	6F-1	2.750		3.79	2.63	3.63	0.75	2.88		1.46	11.6
45	PB8MX45S62	MPB	4.511	4.448	4.910	6F-1	2.750		3.79	2.63	3.63	0.75	2.88		1.46	13.1
Taper Bushed 8mm Pitch, 62mm (2.44 in.) Wide Belts (8M - 62)																
34	8MX34S62-1610	1610	3.409	3.346	3.810	AF-1	1.625	2.66		2.63	1.00		2.88		1.46	5.0
36	8MX36S62-1610	1610	3.609	3.546	4.010	AF-1	1.625	2.96		2.63	1.00		2.88		1.46	5.3
38	8MX38S62-1610	1610	3.812	3.747	4.210	AF-1	1.625	3.15		2.63	1.00		2.88		1.46	5.6
40	8MX40S62-2012	2012	4.010	3.947	4.410	AF-1	2.000	3.35		2.63	1.25		2.88		1.46	5.9
42	8MX42S62-2012	2012	4.211	4.148	4.910	AF-1	2.000	3.62		2.63	1.25		2.88		1.46	3.5
45	8MX45S62-2012	2012	4.511	4.448	4.910	AF-1	2.000	3.62		2.63	1.25		2.88		1.46	6.5
48	8MX48S62-2517	2517	4.812	4.749	5.210	AF-1	2.500	4.14		2.63	1.75		2.88		1.46	6.6
50	8MX50S62-2517	2517	5.013	4.950	5.410	AF-1	2.500	4.13		2.63	1.75		2.88		1.46	6.7
53	8MX53S62-2517	2517	5.314	5.251	5.500	AF-1	2.500	4.76		2.63	1.75		2.88		1.46	6.9
56	8MX56S62-2517	2517	5.614	5.551	6.010	AF-1	2.500	4.92		2.63	1.75		2.88		1.46	7.2
60	8MX60S62-3020	3020	6.015	5.952	6.420	AF-1	3.000	5.13		2.63	2.00		2.88		1.46	8.9
63	8MX63S62-3020	3020	6.316	6.253	6.720	AF-1	3.000	5.71		2.63	2.00		2.88		1.46	10.3
67	8MX67S62-3020	3020	6.717	6.654	6.880	AF-1	3.000	6.14		2.63	2.00		2.88		1.46	11.0
71	8MX71S62-3020	3020	7.118	7.055	7.500	AF-1	3.000	6.51		2.63	2.00		2.88		1.46	13.5
75	8MX75S62-3020	3020	7.519	7.456	7.920	AF-1	3.000	6.90		2.63	2.00		2.88		1.46	15.4
80	8MX80S62-3020	3020	8.020	7.957	8.420	AF-1	3.000	7.23		2.63	2.00		2.88		1.46	23.0
90	8MX90S62-3020	3020	9.023	8.960	-	D-1	3.000	7.39	5.42		2.00		2.88	0.91	1.46	32.7
112	8MX112S62-3020	3020	11.229	11.166	-	D-2	3.000	9.60	5.42		2.00		2.88	0.91	1.46	38.9
140	8MX140S62-3525	3525	14.036	13.973	-	D-2	3.500	12.40	8.75		2.50.		2.88	0.41	1.46	54.5
180	8MX180S62-3525	3525	18.046	17.983	-	D-3	3.500	15.33	8.75		2.50		2.88	0.41.	1.46	90.0
224	8MX224S62-3525	3525	22.457	22.394	-	D-3	3.500	19.38	8.75		2.50		2.88	0.41	1.46	92.3

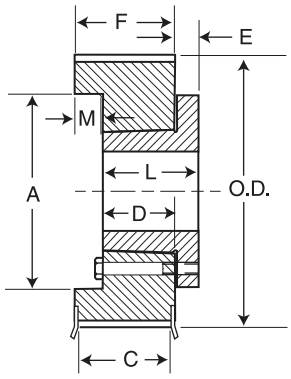
Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

MPC® Sprockets 8mm
Air Cool Heat Exchange

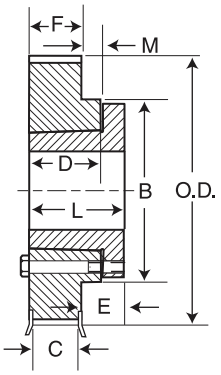
Type A



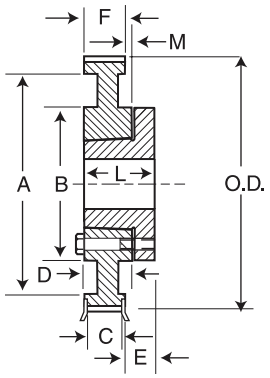
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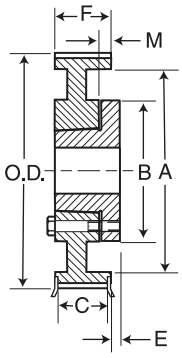
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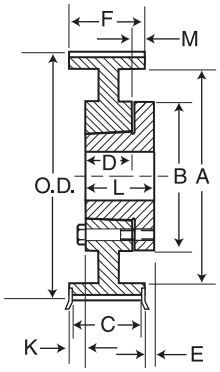
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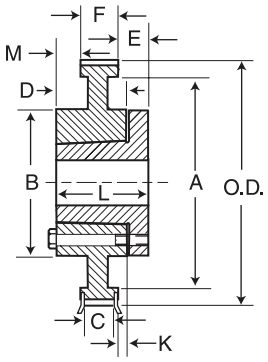
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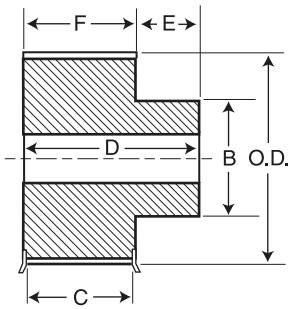
Type F



Type G



Type 6



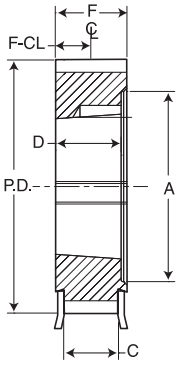
8mm Pitch — 21mm Wide Air Cool Heat Exchange Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions									Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	L	M	F-CL	
QD Bushed 8mm Pitch, 21mm (0.93 in.) Wide Belt (8M-21)																	
36	F8MX36S21-SH	SH	3.609	3.546	4.009	AF-1	1.688	2.85		0.92	0.81	0.0475	1.20	1.94	0.39	0.60	2.1
38	F8MX38S21-SH	SH	3.810	3.747	4.210	AF-1	1.688	3.04		0.92	0.81	0.0475	1.20	1.94	0.39	0.60	2.1
40	F8MX40S21-SH	SH	4.010	3.947	4.410	AF-1	1.688	3.24		0.92	0.81	0.0475	1.20	1.94	0.39	0.60	2.3
42	F8MX42S21-SH	SH	4.211	4.148	4.911	AF-1	1.688	3.44		0.92	0.81	0.0475	1.20	1.94	0.39	0.60	2.5
140	F8MX140S21-SF	SF	14.036	13.973		C-1	2.938	13.17	6.38		1.25	0.6125	1.20	2.06	0.05	0.60	25.0
168	F8MX168S21-SF	SF	16.843	16.780		C-3	2.938	15.95	6.38		1.25	0.6125	1.20	2.06	0.05	0.60	33.8
180	F8MX180S21-SF	SF	18.046	17.983		C-3	2.938	17.14	6.38		1.25	1.305	1.20	2.06	0.03	0.60	36.6
224	F8MX224S21-E	E	22.457	22.394		C-3	3.500	21.51	7.50		1.25	1.305	1.20	2.75	0.43	0.60	50.1

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

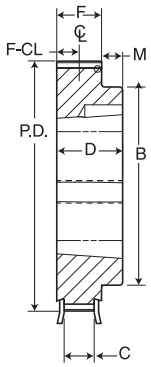
MPC® Sprockets
14mm

Type A



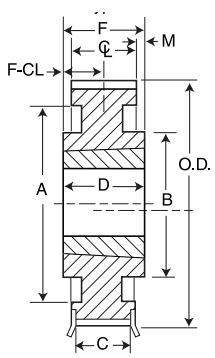
Type AF

Type B



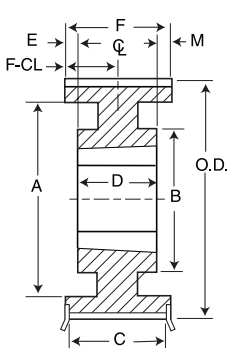
Type BF

Type C



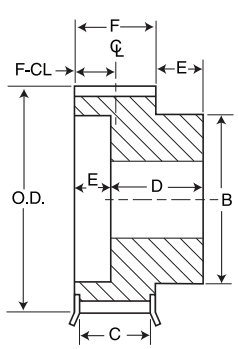
Type CF

Type D



Type DF

Type 6



Type 6F

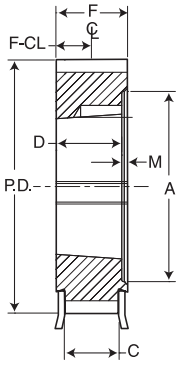
14mm Pitch — 20mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
Tapered Bushed 14mm Pitch, 20mm (.826 in.) Wide Belt (14M- 20)																
28	14MX28S20-2012	2012	4.912	4.802	5.400	AF-1	2.00	3.61		1.04	1.25		1.352		0.68	3.9
29	14MX29S20-2012	2012	5.188	4.978	5.760	AF-1	2.00	3.99		1.04	1.25		1.352		0.68	4.5
30	14MX30S20-2012	2012	5.263	5.153	5.760	AF-1	2.00	3.99		1.04	1.25		1.352		0.68	4.8
31	14MX31S20-2012	2012	5.439	5.329	6.110	AF-1	2.00	4.22		1.04	1.25		1.352		0.68	5.5
32	14MX32S20-2012	2012	5.614	5.504	6.110	AF-1	2.00	4.22		1.04	1.25		1.352		0.68	5.9
33	14MX33S20-2012	2012	5.790	5.680	6.460	AF-1	2.00	4.53		1.04	1.25		1.352		0.68	6.3
34	14MX34S20-2012	2012	5.965	5.855	6.460	AF-1	2.00	4.53		1.04	1.25		1.352		0.68	6.9
35	14MX35S20-2012	2012	6.141	6.031	6.820	AF-1	2.00	4.95		1.04	1.25		1.352		0.68	7.3
36	14MX36S20-2517	2517	6.316	6.206	6.820	BF-1	2.50		4.25	1.04	1.75		1.352	0.40	0.68	7.6
37	14MX37S20-2517	2517	6.492	6.382	7.170	BF-1	2.50		4.25	1.04	1.75		1.352	0.40	0.68	8.2
38	14MX38S20-2517	2517	6.667	6.557	7.170	BF-1	2.50		4.25	1.04	1.75		1.352	0.40	0.68	8.9
39	14MX39S20-2517	2517	6.842	6.732	7.520	BF-1	2.50		4.25	1.04	1.75		1.352	0.40	0.68	9.8
40	14MX40S20-2517	2517	7.018	6.908	7.520	BF-1	2.50		4.25	1.04	1.75		1.352	0.40	0.68	10.1
43	14MX43S20-2517	2517	7.544	7.434	8.040	BF-1	2.50		4.25	1.04	1.75		1.352	0.40	0.68	11.7
45	14MX45S20-3020	3020	7.895	7.785	8.400	BF-1	3.00		5.41	1.04	2.00		1.352	0.65	0.68	13.5
48	14MX48S20-3020	3020	8.421	8.311	8.940	BF-1	3.00		5.75	1.04	2.00		1.352	0.65	0.68	16.4
50	14MX50S20-3020	3020	8.772	8.662	9.290	BF-1	3.00		5.75	1.04	2.00		1.352	0.65	0.68	18.2
53	14MX53S20-3020	3020	9.299	9.189	9.690	BF-1	3.00		5.75	1.04	2.00		1.352	0.65	0.68	20.5
56	14MX56S20-3525	3525	9.825	9.715	10.360	BF-1	3.50		8.75	1.04	2.50		1.352	1.15	0.68	23.2
60	14MX60S20-3525	3525	10.527	10.417	11.070	BF-1	3.50		8.75	1.04	2.50		1.352	1.15	0.68	27.5
63	14MX63S20-3525	3525	11.053	10.943	11.590	BF-1	3.50		8.75	1.04	2.50		1.352	1.15	0.68	30.2
67	14MX67S20-3525	3525	11.755	11.645	12.500	BF-1	3.50		8.75	1.04	2.50		1.352	1.15	0.68	31.2
71	14MX71S20-3525	3525	12.457	12.347	13.070	CF-1	3.50	11.05	8.75	1.04	2.50		1.352	1.15	0.68	32.5
75	14MX75S20-3525	3525	13.158	13.048	13.730	CF-1	3.50	11.68	8.75	1.04	2.50		1.352	1.15	0.68	36.2
80	14MX80S20-3525	3525	14.036	13.926	14.620	CF-2	3.50	12.56	8.75	1.04	2.50		1.352	1.15	0.68	35.4
90	14MX90S20-3525	3525	15.790	15.680		C-2	3.50	14.26	8.75		2.50		1.352	1.15	0.68	41.3
112	14MX112S20-3525	3525	19.650	19.540		C-3	3.50	16.47	8.75		2.50		1.352	1.15	0.68	59.6
140	14MX140S20-3525	3525	24.562	24.452		C-3	3.50	21.04	8.75		2.50		1.352	1.15	0.68	102.0
168	14MX168S20-3525	3525	29.475	29.365		C-3	3.50	25.90	8.75		2.50		1.352	1.15	0.68	99.5
180	14MX180S20-3525	3525	31.580	31.470		C-3	3.50	27.99	8.75		2.50		1.352	1.15	0.68	135.0
200	14MX200S20-3525	3525	35.089	24.979		C-3	3.50	31.46	8.75		2.50		1.352	1.15	0.68	156.0
224	14MX224S20-4030	4030	39.300	39.190		C-3	4.00	35.63	10.00		3.00		1.352	1.65	0.68	150.2

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

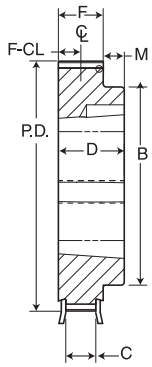
MPC® Sprockets
14mm

Type A



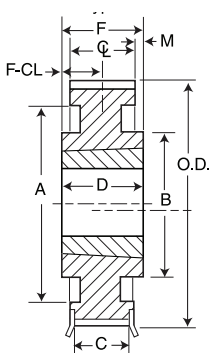
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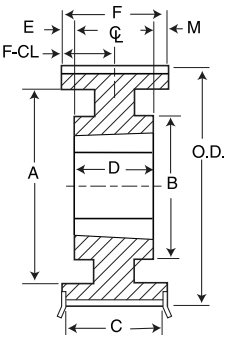
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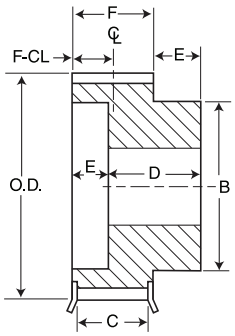
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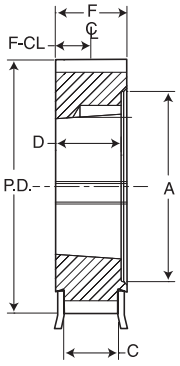
14mm Pitch —37mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MPB 14mm Pitch, 37mm (1.46 in.) Wide Belt (14M-37)																
28	PB14MX28S37	MPB	4.912	4.802	5.400	6F-1	2.938		3.97	1.74	2.86	0.80	2.06		1.03	11.7
Taper Bushed 14mm Pitch, 37mm (1.46 in.) Wide Belt (14M-37)																
28	14MX28S37-2012	2012	4.912	4.802	5.400	AF-1	2.00	3.61		1.74	1.25		2.06	0.81	1.03	4.2
29	14MX29S37-2517	2517	5.088	4.978	5.760	AF-1	2.50	3.99		1.74	1.75		2.06	0.31	1.03	4.7
30	14MX30S37-2517	2517	5.263	5.153	5.760	AF-1	2.50	3.99		1.74	1.75		2.06	0.31	1.03	5.0
31	14MX31S37-2517	2517	5.439	5.329	6.110	AF-1	2.50	4.22		1.74	1.75		2.06	0.31	1.03	6.0
32	14MX32S37-2517	2517	5.614	5.504	6.110	AF-1	2.50	4.22		1.74	1.75		2.06	0.31	1.03	7.2
33	14MX33S37-2517	2517	5.790	5.680	6.460	AF-1	2.50	4.53		1.74	1.75		2.06	0.31	1.03	7.5
34	14MX34S37-2517	2517	5.965	5.855	6.460	AF-1	2.50	4.53		1.74	1.75		2.06	0.31	1.03	7.8
35	14MX35S37-2517	2517	6.141	6.031	6.820	AF-1	2.50	4.95		1.74	1.75		2.06	0.31	1.03	8.3
36	14MX36S37-2517	2517	6.316	6.206	6.820	AF-1	2.50	4.95		1.74	1.75		2.06	0.31	1.03	8.8
37	14MX37S37-2517	2517	6.492	6.382	7.170	AF-1	2.50	5.27		1.74	1.75		2.06	0.31	1.03	9.3
38	14MX38S37-3020	3020	6.667	6.557	7.170	AF-1	3.00	5.27		1.74	2.00		2.06	0.06	1.03	10.8
39	14MX39S37-3020	3020	6.842	6.732	7.520	AF-1	3.00	5.54		1.74	2.00		2.06	0.06	1.03	11.9
40	14MX40S37-3020	3020	7.018	6.908	7.520	AF-1	3.00	5.54		1.74	2.00		2.06	0.06	1.03	12.2
43	14MX43S37-3020	3020	7.544	7.434	8.040	AF-1	3.00	6.16		1.74	2.00		2.06	0.06	1.03	12.5
45	14MX45S37-3020	3020	7.895	7.785	8.400	AF-1	3.00	6.42		1.74	2.00		2.06	0.06	1.03	15.8
48	14MX48S37-3020	3020	8.421	8.311	8.940	AF-1	3.00	6.96		1.74	2.00		2.06	0.06	1.03	18.7
50	14MX50S37-3020	3020	8.772	8.662	9.290	AF-1	3.00	7.44		1.74	2.00		2.06	0.06	1.03	21.1
53	14MX53S37-3020	3020	9.299	9.189	9.690	AF-1	3.00	7.84		1.74	2.00		2.06	0.06	1.03	24.7
56	14MX56S37-3525	3525	9.825	9.715	10.360	BF-1	3.50		8.70	1.74	2.50		2.06	0.44	1.03	28.2
60	14MX60S37-3525	3525	10.527	10.417	11.070	BF-1	3.50		8.75	1.74	2.50		2.06	0.44	1.03	32.2
63	14MX63S37-3525	3525	11.053	10.943	11.590	BF-1	3.50		8.75	1.74	2.50		2.06	0.44	1.03	42.8
67	14MX67S37-3525	3525	11.755	11.645	12.500	BF-1	3.50		8.75	1.74	2.50		2.06	0.44	1.03	43.5
71	14MX71S37-3525	3525	12.457	12.347	13.070	BF-1	3.50		8.75	1.74	2.50		2.06	0.44	1.03	44.1
75	14MX75S37-3525	3525	13.158	13.048	13.730	CF-1	3.50	11.68	8.75	1.74	2.50		2.06	0.44	1.03	45.5
80	14MX80S37-3525	3525	14.036	13.926	14.620	CF-2	3.50	12.56	8.75	1.74	2.50		2.06	0.44	1.03	48.7
90	14MX90S37-3525	3525	15.790	15.680		C-2	3.50	14.26	8.75		2.50		2.06	0.44	1.03	53.3
112	14MX112S37-3525	3525	19.650	19.540		C-3	3.50	16.39	8.75		2.50		2.06	0.44	1.03	87.0
126	14MX126S37-3525	3525	22.106	21.996		C-3	3.50	20.56	8.75		2.50		2.06	0.44	1.03	76.3
180	14MX180S37-4030	4030	31.580	31.470		C-3	4.00	27.59	10.00		3.00		2.06	0.94	1.03	191.4
200	14MX200S37-4030	4030	35.089	34.979		C-3	4.00	31.07	10.00		3.00		2.06	0.94	1.03	224.8
224	14MX224S37-4030	4030	39.300	39.190		C-3	4.00	35.24	10.00		3.00		2.06	0.94	1.03	267.7

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

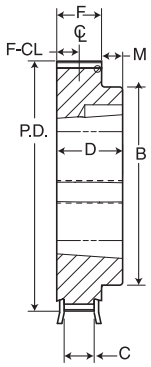
MPC® Sprockets 14mm

Type A



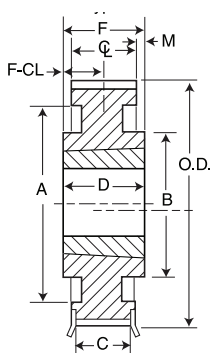
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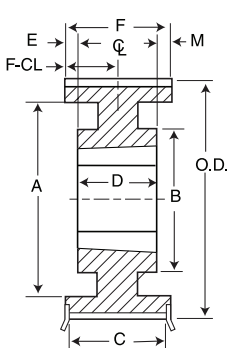
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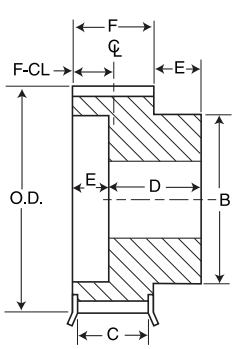
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Type D



Type DF

Type 6



Type 6F

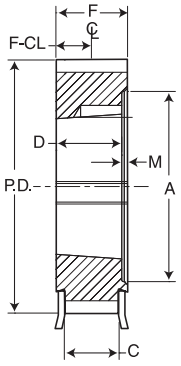
14mm Pitch — 68mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MPB 14mm Pitch, 68mm (2.68 in.) Wide Belt (14M-68)																
28	PB14MX28S68	MPB	4.912	4.802	5.400	6F-1	2.938		3.97	3.01	4.13	0.81	3.322		1.66	17.0
29	PB14MX29S68	MPB	5.088	4.978	5.760	6F-1	3.188		4.35	3.01	4.13	0.81	3.322		1.66	19.0
30	PB14MX30S68	MPB	5.263	5.153	5.760	6F-1	3.188		4.35	3.01	4.13	0.81	3.322		1.66	20.0
31	PB14MX31S68	MPB	5.439	5.329	6.110	6F-1	3.438		4.57	3.01	4.13	0.81	3.322		1.66	16.8
32	PB14MX32S68	MPB	5.614	5.504	6.110	6F-1	3.438		4.57	3.01	4.13	0.81	3.322		1.66	18.0
33	PB14MX33S68	MPB	5.790	5.680	6.470	6F-1	3.500		4.89	3.01	4.33	1.01	3.322		1.66	26.0
34	PB14MX34S68	MPB	5.965	5.855	6.470	6F-1	3.500		4.89	3.01	4.33	1.01	3.322		1.66	21.1
Taper Bushed 14mm Pitch, 68mm (2.68 in.) Wide Belt (14M-68)																
29	14MX29S68-2517	2517	5.088	4.978	5.760	AF-1	2.500	3.99		3.01	1.75		3.322		1.66	14.7
30	14MX30S68-2517	2517	5.263	5.153	5.760	AF-1	2.500	3.99		3.01	1.75		3.322		1.66	14.0
31	14MX31S68-2517	2517	5.439	5.329	6.110	AF-1	2.500	4.22		3.01	1.75		3.322		1.66	14.3
32	14MX32S68-2517	2517	5.614	5.504	6.110	AF-1	2.500	4.22		3.01	1.75		3.322		1.66	14.6
33	14MX33S68-2517	2517	5.790	5.680	6.460	AF-1	2.500	4.53		3.01	1.75		3.322		1.66	14.9
34	14MX34S68-2517	2517	5.965	5.855	6.460	AF-1	2.500	4.53		3.01	1.75		3.322		1.66	15.2
35	14MX35S68-3020	3020	6.141	6.031	6.820	AF-1	3.000	4.95		3.01	2.00		3.322		1.66	15.5
36	14MX36S68-3020	3020	6.316	6.206	6.820	AF-1	3.000	4.95		3.01	2.00		3.322		1.66	15.8
37	14MX37S68-3020	3020	6.492	6.382	7.170	AF-1	3.000	5.27		3.01	2.00		3.322		1.66	16.1
38	14MX38S68-3020	3020	6.667	6.557	7.170	AF-1	3.000	5.27		3.01	2.00		3.322		1.66	16.4
39	14MX39S68-3020	3020	6.842	6.732	7.520	AF-1	3.000	5.54		3.01	2.00		3.322		1.66	16.7
40	14MX40S68-3020	3020	7.018	6.908	7.520	AF-1	3.000	5.54		3.01	2.00		3.322		1.66	17.0
43	14MX43S68-3020	3020	7.544	7.434	8.040	AF-1	3.000	6.16		3.01	2.00		3.322		1.66	17.2
45	14MX45S68-3020	3020	7.895	7.785	8.390	AF-1	3.000	6.42		3.01	2.00		3.322		1.66	20.4
48	14MX48S68-3525	3525	8.421	8.311	8.940	AF-1	3.500	6.96		3.01	2.50		3.322		1.66	24.6
50	14MX50S68-3525	3525	8.772	8.662	9.290	AF-1	3.500	7.44		3.01	2.50		3.322		1.66	29.4
53	14MX53S68-3525	3525	9.299	9.189	9.690	AF-1	3.500	7.84		3.01	2.50		3.322		1.66	35.7
56	14MX56S68-3525	3525	9.825	9.715	10.360	AF-1	3.500	8.35		3.01	2.50		3.322		1.66	39.9
60	14MX60S68-3525	3525	10.527	10.417	11.070	AF-1	3.500	9.06		3.01	2.50		3.322		1.66	50.6
63	14MX63S68-3525	3525	11.053	10.943	11.590	AF-1	3.500	9.59		3.01	2.50		3.322		1.66	58.0
67	14MX67S68-3525	3525	11.755	11.645	12.500	DF-1	3.500	10.36	8.75	3.01	2.50		3.322	0.82	1.66	60.0
71	14MX71S68-3525	3525	12.457	12.347	13.070	DF-1	3.500	11.05	8.75	3.01	2.50		3.322	0.82	1.66	63.3
75	14MX75S68-3525	3525	13.158	13.048	13.730	DF-1	3.500	11.68	8.75	3.01	2.50		3.322	0.82	1.66	68.6
80	14MX80S68-3525	3525	14.036	13.926	14.620	DF-2	3.500	12.56	8.75	3.01	2.50		3.322	0.82	1.66	76.3
90	14MX90S68-4030	4030	15.790	15.680		D-2	4.000	14.26	10.00		3.00		3.322	0.32	1.66	82.6
112	14MX112S68-4030	4030	19.650	19.540		D-3	4.000	16.35	10.00		3.00		3.322	0.32	1.66	100.4
140	14MX140S68-4030	4030	24.562	24.452		D-3	4.500	20.78	10.00		3.00		3.322	0.32	1.66	190.0
168	14MX168S68-4535	4535	29.475	29.365		C-3	4.500	25.23	10.50		3.50		3.322	0.18	1.66	239.1
180	14MX180S68-4353	4535	31.580	31.470		C-3	4.500	27.16	10.50		3.50		3.322	0.18	1.66	250.6
200	14MX200568-4535	4535	35.089	34.979		C-3	4.500	30.65	10.50		3.50		3.322	0.18	1.66	262.5
224	14MX224S68-5040	5040	39.300	39.190		C-3	5.000	34.82	11.00		4.00		3.322	0.68	1.66	350.0

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

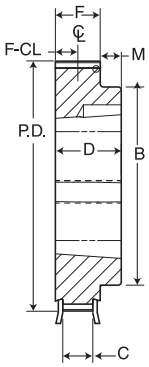
MPC® Sprockets
14mm

Type A



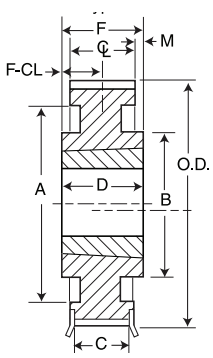
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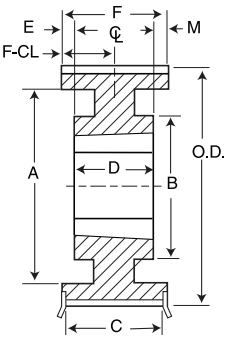
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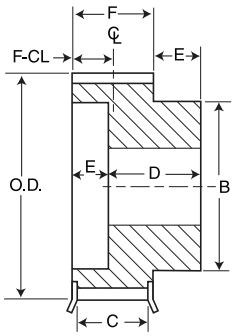
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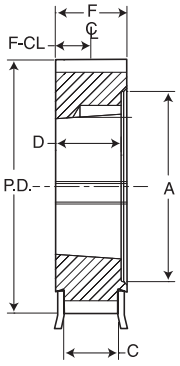
14mm Pitch — 90mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MPB 14mm Pitch, 90mm (3.54 in.) Wide Belt (14M-90)																
28	PB14MX28S90	MPB	4.912	4.802	5.400	6F-1			3.97	3.88	5.14	0.95	4.192		2.10	20.0
29	PB14MX29S90	MPB	5.088	4.978	5.760	6F-1			4.35	3.88	5.00	0.81	4.192		2.10	22.1
30	PB14MX30S90	MPB	5.263	5.153	5.760	6F-1			4.35	3.88	5.00	0.81	4.192		2.10	24.0
31	PB14MX31S90	MPB	5.439	5.329	6.110	6F-1			4.57	3.88	5.00	0.81	4.192		2.10	21.8
32	PB14MX32S90	MPB	5.614	5.504	6.110	6F-1			4.57	3.88	5.00	0.81	4.192		2.10	27.0
33	PB14MX33S90	MPB	5.790	5.680	6.470	6F-1			4.89	3.88	5.20	1.01	4.192		2.10	30.0
34	PB14MX34S90	MPB	5.965	5.855	6.470	6F-1			4.89	3.88	5.20	1.01	4.192		2.10	27.2
35	PB14MX35S90	MPB	6.141	6.031	6.820	6F-1			5.30	3.88	5.20	1.01	4.192		2.10	28.7
36	PB14MX36S90	MPB	6.316	6.206	6.820	6F-1			5.30	3.88	5.20	1.01	4.192		2.10	30.3
37	PB14MX90S90	MPB	6.492	6.382	7.170	6F-1			5.63	3.88	5.20	1.01	4.192		2.10	32.1
38	PB14MX38S90	MPB	6.667	6.557	7.170	6F-1			5.63	3.88	5.20	1.01	4.192		2.10	33.9
39	PB14MX39S90	MPB	6.842	6.732	7.500	6F-1			5.89	3.88	5.20	1.01	4.192		2.10	35.8
40	PB14MX40S90	MPB	7.018	6.908	7.520	6F-1			5.89	3.88	5.20	1.01	4.192		2.10	37.7
Taper Bushed 14mm Pitch, 90mm (3.54 in.) Wide Belt (14M-90)																
35	14MX35S90-3020	3020	6.141	6.031	6.820	AF-1	3.00	4.95		3.88	2.00		4.192	2.19	2.10	22.9
36	14MX36S90-3020	3020	6.316	6.206	6.820	AF-1	3.00	4.95		3.88	2.00		4.192	2.19	2.10	23.1
37	14MX90S90-3020	3020	6.492	6.382	7.170	AF-1	3.00	5.27		3.88	2.00		4.192	2.19	2.10	23.4
38	14MX38S90-3020	3020	6.667	6.557	7.170	AF-1	3.00	5.27		3.88	2.00		4.192	2.19	2.10	23.7
39	14MX39S90-3020	3020	6.842	6.732	7.520	AF-1	3.00	5.54		3.88	2.00		4.192	2.19	2.10	24.0
40	14MX40S90-3020	3020	7.018	6.908	7.520	AF-1	3.00	5.54		3.88	2.00		4.192	2.19	2.10	24.3
43	14MX43S90-3525	3525	7.544	7.434	8.040	AF-1	3.50	6.16		3.88	2.50		4.192	1.69	2.10	24.7
45	14MX45S90-3525	3525	7.895	7.785	8.390	AF-1	3.50	6.42		3.88	2.50		4.192	1.69	2.10	27.3
48	14MX48S90-3525	3525	8.421	8.311	8.940	AF-1	3.50	6.96		3.88	2.50		4.192	1.69	2.10	33.4
50	14MX50S90-3525	3525	8.772	8.662	9.290	AF-1	3.50	7.44		3.88	2.50		4.192	1.69	2.10	29.3
53	14MX53S90-3525	3525	9.299	9.189	9.690	AF-1	3.50	7.83		3.88	2.50		4.192	1.69	2.10	46.8
56	14MX56S90-4030	4030	9.825	9.715	10.360	AF-1	4.00	8.35		3.88	3.00		4.192	1.69	2.10	42.1
60	14MX60S90-4030	4030	10.527	10.417	11.070	AF-1	4.00	9.06		3.88	3.00		4.192	1.69	2.10	50.5
63	14MX63S90-4030	4030	11.053	10.943	11.590	AF-1	4.00	9.59		3.88	3.00		4.192	1.69	2.10	64.6
67	14MX67S90-4030	4030	11.755	11.645	12.500	AF-1	4.00	9.88		3.88	3.00		4.192	1.69	2.10	70.0
71	14MX71S90-4030	4030	12.457	12.347	13.070	AF-1	4.00	10.67		3.88	3.00		4.192	1.69	2.10	86.7
75	14MX75S90-4030	4030	13.158	13.048	13.730	AF-1	4.00	11.63		3.88	3.00		4.192	1.69	2.10	85.0
80	14MX80S90-4030	4030	14.036	13.926	14.620	DF-1	4.00	12.56	10.00	3.88	3.00		4.192	1.69	2.10	88.0
90	14MX90S90-4030	4030	15.790	15.680		D-2	4.00	14.26	10.00		3.00		4.192	1.69	2.10	89.0
112	14MX112S90-4535	4535	19.650	19.540		D-2	4.50	16.35	10.50		3.50		4.192	0.69	2.10	197.9
140	14MX140S90-5040	5040	24.562	24.452		D-3	5.00	20.74	11.00		4.00		4.192	0.19	2.10	240.0
168	14MX168S90-6050	6050	29.475	29.365		C-3	6.00	25.11	15.50		5.00		4.192	0.81	2.10	327.3
180	14MX180S90-6050	6050	31.580	31.470		C-3	6.00	27.06	15.50		5.00		4.192	0.81	2.10	335.9
200	14MX200S90-6050	6050	35.089	34.979		C-3	6.00	30.29	15.50		5.00		4.192	0.81	2.10	344.5
224	14MX224S90-6050	6050	39.300	39.190		C-3	6.00	34.46	15.50		5.00		4.192	0.81	2.10	589.0

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

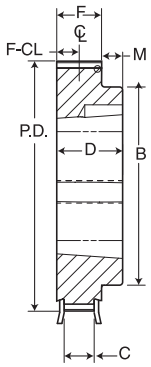
MPC® Sprockets
14mm

Type A



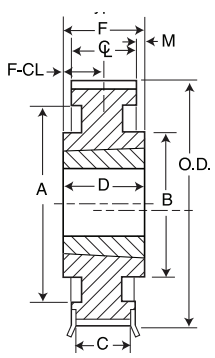
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Type B



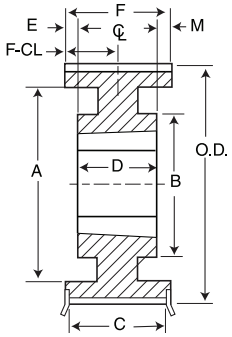
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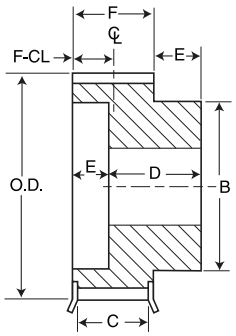
Type CF

Type D



Type DF

Type 6



Type 6F

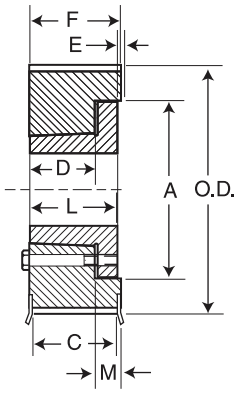
14mm Pitch — 125mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MPB 14mm Pitch, 125mm (4.92 in.) Wide Belt (14M-125)																
28	PB14MX28S125	MPB	4.912	4.802	5.400	6F-1	2.938		3.97	5.29	6.50	0.89	5.61		2.81	22.0
29	PB14MX29S125	MPB	5.088	4.978	5.760	6F-1	3.188		4.35	5.29	6.50	0.89	5.61		2.81	27.0
30	PB14MX30S125	MPB	5.263	5.153	5.760	6F-1	3.188		4.35	5.29	6.50	0.89	5.61		2.81	30.2
31	PB14MX31S125	MPB	5.439	5.329	6.110	6F-1	3.438		4.57	5.29	6.50	0.89	5.61		2.81	32.0
32	PB14MX32S125	MPB	5.614	5.504	6.110	6F-1	3.438		4.57	5.29	6.50	0.89	5.61		2.81	34.0
33	PB14MX33S125	MPB	5.790	5.680	6.470	6F-1	3.500		4.89	5.29	6.69	1.08	5.61		2.81	31.8
34	PB14MX34S125	MPB	5.965	5.855	6.470	6F-1	3.500		4.89	5.29	6.69	1.08	5.61		2.81	34.3
35	PB14MX35S125	MPB	6.141	6.031	6.820	6F-1	3.813		5.30	5.29	6.69	1.08	5.61		2.81	36.2
36	PB14MX36S125	MPB	6.316	6.206	6.820	6F-1	3.813		5.30	5.29	6.69	1.08	5.61		2.81	38.0
37	PB14MX37S125	MPB	6.492	6.382	7.170	6F-1	4.125		5.63	5.29	6.69	1.08	5.61		2.81	40.3
38	PB14MX38S125	MPB	6.667	6.557	7.170	6F-1	4.125		5.63	5.29	6.69	1.08	5.61		2.81	42.5
39	PB14MX39S125	MPB	6.842	6.732	7.520	6F-1	4.375		5.89	5.29	6.69	1.08	5.61		2.81	44.9
40	PB14MX40S125	MPB	7.018	6.908	7.520	6F-1	4.375		5.89	5.29	6.69	1.08	5.61		2.81	47.2
43	PB14MX43S125	MPB	7.543	7.434	8.040	6F-1	4.813		6.510	5.29	6.81	1.20	5.61		2.81	55.5
45	PB14MX45S125	MPB	7.894	7.785	8.400	6F-1	5.000		6.760	5.29	6.81	1.20	5.61		2.81	61.3
48	PB14MX48S125	MPB	8.421	8.311	8.940	6F-1	5.625		7.290	5.29	6.81	1.20	5.61		2.81	68.7
Taper Bushed 14mm Pitch, 125mm (4.92 in.) Wide Belt (14M-125)																
50	14MX50S125-4535	4535	8.772	8.662	9.290	AF-1	4.500	7.44		5.29	3.50		5.61		2.81	39.4
53	14MX53S125-4535	4535	9.299	9.189	9.690	AF-1	4.500	7.83		5.29	3.50		5.61		2.81	50.1
56	14MX56S125-4535	4535	9.825	9.715	10.360	AF-1	4.500	8.35		5.29	3.50		5.61		2.81	52.6
60	14MX60S125-4535	4535	10.527	10.417	11.070	AF-1	4.500	9.06		5.29	3.50		5.61		2.81	63.3
63	14MX63S125-4535	4535	11.053	10.943	11.590	AF-1	4.500	9.59		5.29	3.50		5.61		2.81	77.2
67	14MX67S125-4535	4535	11.755	11.645	12.500	AF-1	4.500	9.88		5.29	3.50		5.61		2.81	93.8
71	14MX71S125-5040	5040	12.457	12.347	13.070	AF-1	5.000	10.67		5.29	4.00		5.61		2.81	93.0
75	14MX75S125-5040	5040	13.158	13.048	13.730	AF-1	5.000	11.63		5.29	4.00		5.61		2.81	132.8
80	14MX80S125-5040	5040	14.036	13.926	14.620	AF-1	5.000	12.59		5.29	4.00		5.61		2.81	137.0
90	14MX90S125-5040	5040	15.790	15.680		D-1	5.000	14.26	11.00		4.00		5.61	1.61	2.81	121.0
112	14MX112S125-6050	6050	19.650	19.540		A-1	6.000	16.35			5.00		5.61	0.61	2.81	210.6
140	14MX140S125-6050	6050	24.562	24.452		D-3	6.000	20.74	15.50		5.00		5.61	0.61	2.81	270.3
168	14MX168S125-7060	7060	29.475	29.365		C-3	7.000	25.11	17.00		6.00		5.61	0.39	2.81	345.2
180	14MX180S125-7060	7060	31.580	31.470		C-3	7.000	27.06	17.00		6.00		5.61	0.39	2.81	365.2
200	14MX200S125-7060	7060	35.089	34.979		C-3	7.000	30.29	17.00		6.00		5.61	0.39	2.81	373.5
224	14MX224S125-7060	7060	39.300	39.190		C-3	7.000	34.21	17.00		6.00		5.61	0.39	2.81	482.3

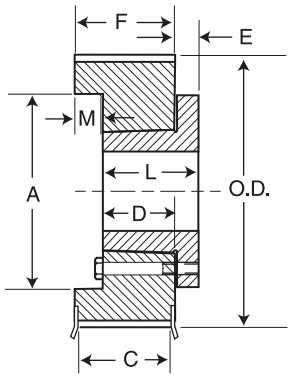
Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

MPC® Sprockets 14mm
Air Cool Heat Exchange

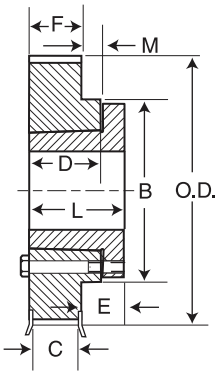
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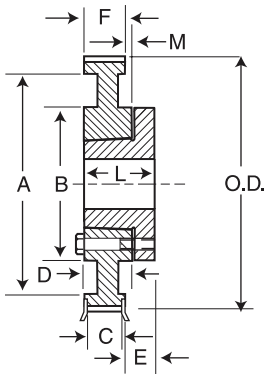
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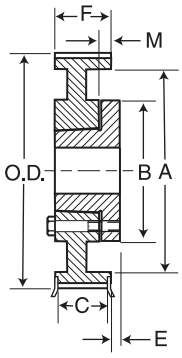
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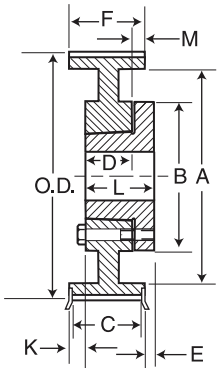
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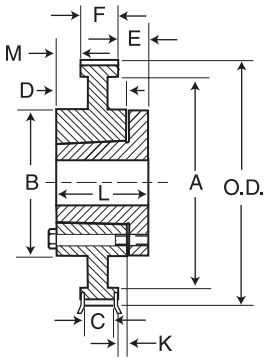
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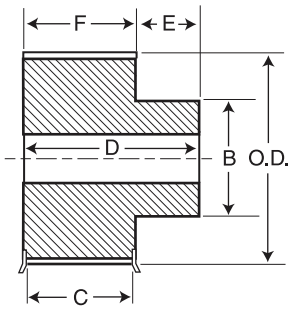
Type F



Type G



Type 6

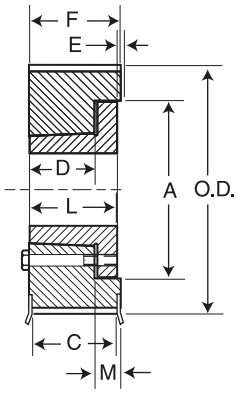


14mm Pitch — 20mm Wide Air Cool Heat Exchange Belt

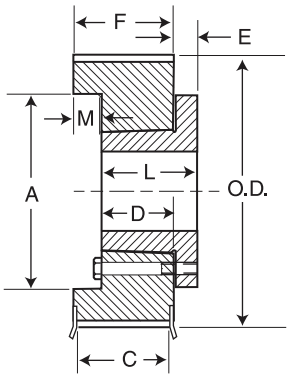
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions									Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	L	M	F-CL	
MPB 14mm Pitch, 20mm (0.787 in.) Wide Belt (14M-20)																	
28	F14MX28S20-SK	SK	4.912	4.802	5.402	AF-1	2.625	3.61		1.04	1.25	0.45	1.36	1.94	0.11	0.68	3.90
29	F14MX29S20-SK	SK	5.088	4.978	5.763	AF-1	2.625	3.85		1.04	1.25	0.45	1.36	1.94	0.11	0.68	4.50
30	F14MX30S20-SK	SK	5.263	5.153	5.763	AF-1	2.625	3.99		1.04	1.25	0.45	1.36	1.94	0.11	0.68	4.80
31	F14MX31S20-SK	SK	5.439	5.329	6.114	AF-1	2.625	4.20		1.04	1.25	0.45	1.36	1.94	0.11	0.68	5.50
32	F14MX32S20-SK	SK	5.614	5.504	6.114	AF-1	2.625	4.22		1.04	1.25	0.45	1.36	1.94	0.11	0.68	5.9
33	F14MX33S20-SK	SK	5.79	5.680	6.465	AF-1	2.625	4.53		1.04	1.25	0.45	1.36	1.94	0.11	0.68	6.3
34	F14MX34S20-SK	SK	5.965	5.855	6.465	AF-1	2.625	4.53		1.04	1.25	0.45	1.36	1.94	0.11	0.68	6.9
35	F14MX35S20-SK	SK	6.141	6.031	6.816	AF-1	2.625	4.89		1.04	1.25	0.45	1.36	1.94	0.11	0.68	7.3
140	F14MX140S20-E	E	24.560	24.452		C-3	3.500	23.21	7.50	1.04	1.63	1.15	1.36	2.75	0.27	0.68	66.10
168	F14MX168S20-F	F	29.472	29.365		G-3	4.000	27.46	7.25	1.04	2.50	1:58	1.36	3.75	0.56	0.68	90.00
180	F14MX180S20-F	F	31.580	31.470		C-3	4.000	29.38	7.25	1.04	2.50	2.14	1.36	3.75	1.14	0.68	107.30
200	F14MX200S20-F	F	35.086	34.98		G-3	4.000	32.88	7.25	1.04	2.5	1.26	1.36	3.75	0.88	0.68	119.00
224	F14MX224S20-F	F	39.300	39.190		C-3	4.000	37.13	7.25	1.04	2.50	1.15	1.36	3.75	1.14	0.68	125.00

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

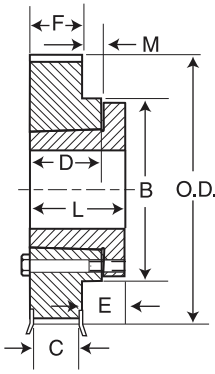
MPC® Sprockets 14mm Air Cool Heat Exchange



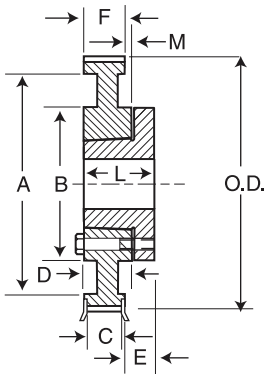
Type E



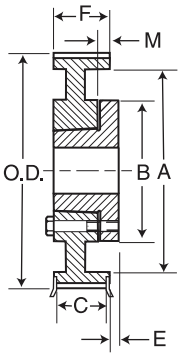
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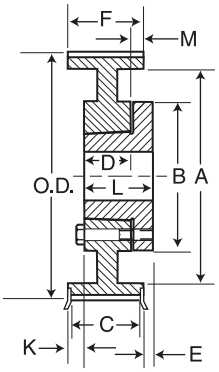


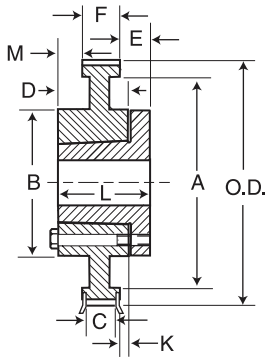
Type G

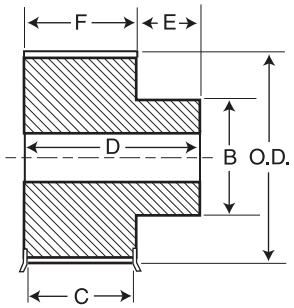


Type 6









14mm Pitch — 37mm Wide Air Cool Heat Exchange Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions									Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	L	M	F-CL	
MPB 14mm Pitch, 20mm (0.787 in.) Wide Belt (14M-20)																	
28	F14MX28S37-SK	SK	4.912	4.802	5.402	BF-1	2.625	3.61		1.74	1.25	0.56	2.06	1.94	0.81	1.03	4.20
29	F14MX29S37-SK	SK	5.088	4.978	5.763	BF-1	2.625	3.75		1.74	1.25	0.56	2.06	1.94	0.81	1.03	4.70
30	F14MX30S37-SK	SK	5.263	5.153	5.763	BF-1	2.625	3.89		1.74	1.25	0.56	2.06	1.94	0.81	1.03	5.00
31	F14MX31S37-SK	SK	5.439	5.329	6.114	AF-1	2.625	4.06		1.74	1.25	-0.25	2.06	1.94	0.81	1.03	6.00
32	F14MX32S37-SK	SK	5.614	5.504	6.114	AF-1	2.625	4.22		1.74	1.25	-0.25	2.06	1.94	0.81	1.03	7.10
33	F14MX33S37-SK	SK	5.79	5.680	6.465	AF-1	2.625	4.41		1.74	1.25	-0.25	2.06	1.94	0.81	1.03	7.50
34	F14MX34S37-SK	SK	5.965	5.855	6.465	AF-1	2.625	4.53		1.74	1.25	-0.25	2.06	1.94	0.81	1.03	7.80
35	F14MX35S37-SK	SK	6.141	6.031	6.816	AF-1	2.625	4.75		1.74	1.25	-0.25	2.06	1.94	0.81	1.03	8.30
36	F14MX36S37-SF	SF	6.315	6.206	6.816	AF-1	2.813	4.94		1.74	1.50	-0.19	2.06	2.06	0.56	1.03	8.80
180	F14MX180S37-E	E	31.580	31.470		D-3	3.500	29.38	7.50		1.63	0.69	2.03	2.75	0.21	1.02	120.00
200	F14MX200S37-E	E	35.086	34.980		D-3	3.500	32.92	7.50		1.63	0.69	2.03	2.75	0.21	1.02	130.00
224	F14MX224S37-E	E	39.300	39.190		D-3	3.500	37.13	7.50		1.63	0.69	2.03	2.75	0.21	1.02	177.00

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
Weights for Bushed Sprockets less bushing.
Dimensions in Inches. Weight in pounds.

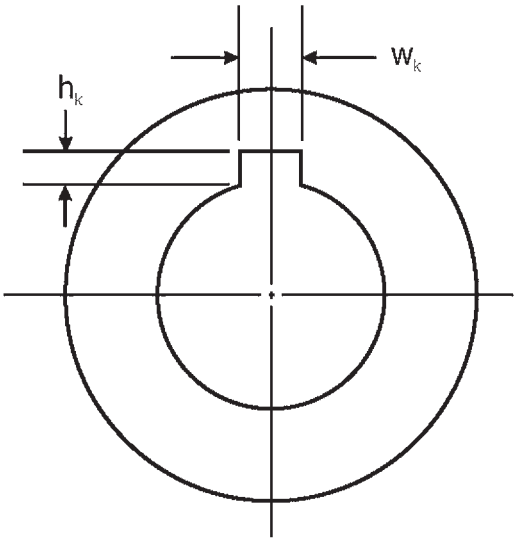
Sprocket Specifications

Sprocket Tolerance Specifications

MPC® sprockets are made to close tolerances. Strict adherence to the standard tolerances (as shown in table below) is highly recommended.

Sprocket Outside Diameter and Pitch

Outside Diameter Range (in)	Outside Diameter Tolerance (in)	Pitch to Pitch Tolerance	
		Adjacent Grooves	Accumulative Over 90 Degrees
Over 2 to and including 4	+ 0.004 - 0.000	± 0.001	± 0.0045
Over 4 to and including 7	+ 0.005 - 0.000	± 0.001	± 0.005
Over 7 to and including 12	+ 0.006 - 0.000	± 0.001	± 0.005
Over 12 to and including 20	+ 0.007 - 0.000	± 0.001	± 0.0065
Over 20	+ 0.008 - 0.000	± 0.001	± 0.0075



Sprocket Runout Radiant Runout*

Outside Diameter		Total Eccentricty Total Indicator Reading	
in	mm	in	mm
Over 2 to 4	50 100	0.003	0.08
Over 4 to 8	100 200	0.004	0.10
Over 8	200	0.005 per inch O.D. over 8”	.013 per mm O.C. over 200mm
		(may not exceed face diameter tolerance)	

***Total Indicator Reading**

Axial Runout*

For outside diameters 1.0 inches and under ..... 0.001 inches
For each additional inch of outside diameter up through 10.0 inches, add ..... 0.0001 inches
For each additional inch outside diameter over 10.0 inches, add ..... 0.0005 inches

***Total Indicator Reading**

Sprocket and Bushing Keyseat

Shaft Diamter (in)	Width wk †	Depth hk (in) + 0.015 0.000
Up through 7/16 (0.44)	3/32 (0.0938)	3/64 (0.047)
over 7/16 (0.44) to and incl. 9/16 (0.56)	1/8 (0.125)	1/16 (0.062)
over 9/16 (0.56) to and incl. 7/8 (0.88)	3/16 (0.1875)	3/32 (0.094)
over 7/8 (0.88) to and incl. 1-1/4 (1.25)	1/4 (0.250)	1/8 (0.125)
over 1-1/4 (1.25) to and incl. 1-3/8 (1.38)	5/16 (0.3125)	5/32 (0.156)
over 1-3/8 (1.38) to and incl. 1-3/4 (1.75)	3/8 (0.375)	3/16 (0.188)
over 1-3/4 (1.75) to and incl. 2-1/4 (2.25)	1/2 (0.500)	1/4 (0.250)
over 2-1/4 (2.25) to and incl. 2-3/4 (2.75)	5/8 (0.625)	5/16 (0.312)
over 2-3/4 (2.75) to and incl. 3-1/4 (3.25)	3/4 (0.750)	3/8 (0.375)
over 3-1/4 (3.25) to and incl. 3-3/4 (3.75)	7/8 (0.875)	7/16 (0.438)
over 3-3/4 (3.75) to and incl. 4-1/2 (4.50)	1 (1.000)	1/2 (0.500)
over 4-1/2 (4.50) to and incl. 5-1/2 (5.50)	1-1/4 (1.250)	5/8 (0.625)

† Tolerance on width Wk
For width up through 1/2 (0.500) ..... +0.002, 0.000 inches
For width up through 1/2 (0.500) up through 1 (1.000) ..... +0.003, 0.000 inches
For width over 1 (1.000) ..... +0.004, 0.000 inches

Martin

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PLASTICS

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Non-Metallic Sprcokets



Benefits:

- **Extend Chain Life**
- **Corrosion Resistant Materials**
- **Light-Weight**
- **USDA/FDA Approved**
- **For use with Steel or Plastic Chain**

To meet our customers' diverse needs, Martin offers many roller chain sprockets made of industrial plastics. Plastic roller chain sprockets often prove superior in performance and durability compared with conventional metallic sprockets.

The benefits of using plastic roller chain sprockets include extended chain life, corrosion resistance, light weight, and decreased noise levels.

Martin plastic sprockets are available in USDA/FDA approved materials for applications involving food or drug processing and packaging.

Roller chain is available in sizes No. 25, 35, and 40. Most roller chain sprockets are available in "A" plate, "B" hub, or "C" hub styles. "B" hubs are made with either plastic or bolt-on metal hubs. Martin also manufactures metal hubs in steel and stainless steel.

Non-standard or custom-sized sprockets are also available, including square bores, snap ring and grease grooves, special cutouts, and special tooth dimensions. Martin can fabricate products from several types of plastics, including:

- **Nylon**
- **UHMW**
- **Acetal**
- **Teflon®**
- **polypropylene**

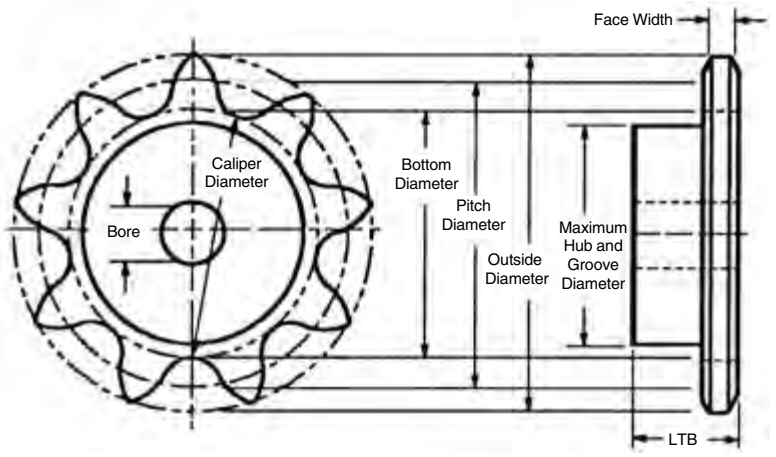
Roller Chain Sprockets Nomenclature



D 160 B 16 NM

# of Strands		Chain Pitch (measured in eighths)				Sprocket Type		# of Teeth
Blank	Single	25 = 2/8 = 1/4"		100 = 10/8 = 1-1/4"		A	Plate Only	
D	Double	35 = 3/8 = 3/8"		120 = 12/8 = 1-1/2"		B	Hub One Side	
E	Triple	40 = 4/8 = 1/2"		140 = 14/8 = 1-3/4"		C	Hub Both Sides	
F	Quadruple	41 = 4/8 = 1/2"		160 = 16/8 = 2"		D	Detachable Hubs	
DS	Double Single	50 = 5/8 = 5/8"		180 = 18/8 = 2-1/4"		JA, SH,... - QD		
		60 = 6/8 = 3/4"		200 = 20/8 = 2-1/2"		BTB -Taper Bore		
		80 = 8/8 = 1"		240 = 24/8 = 3"		H, P, Q... - MST		

Material



Sprocket Dimensional Specifications

Bottom Diameter (B.D.) – The diameter of a circle tangent to the seating curve at the bottom of the tooth gap of a roller chain sprocket.

Caliper Diameter – Since the bottom diameter of a sprocket with odd number of teeth cannot be measured directly, caliper diameters are the measurement across the tooth gaps nearly opposite.

Pitch Diameter (P.D.) – The diameter across to the pitch circle which is the circle followed by the centers of the chain pins as the sprocket revolves in mesh with the chain.

$$PD = \frac{PITCH}{SIN\ (180/Nt)}$$

Outside Diameter (O.D.) – The measurement from the tip of the sprocket tooth across to the corresponding point directly across the sprocket. It is comparatively unimportant as the tooth length is not vital to proper meshing with the chain. The outside diameter may vary depending on type of cutter used.

OD = (Pitch) (.6 + COT [180 / Nt])

Hub Diameter (HOD) – That distance across the hub from one side to another. This diameter must not exceed the calculated diameter of the inside of the chain side bars.

Maximum Sprocket Bore – Maximum Sprocket Bore is determined by the required hub wall thickness for proper strength. Allowance must be made for keyway and setscrews.

Face Width – Face width is limited in its maximum dimension to allow proper clearance to provide for chain engagement and disengagement. The minimum width is limited to provide the proper strength to carry the imposed loads.

Length Thru Bore Bore (LTB) – Length Thru Bore Bore (or L.T.B.) must be sufficient to allow a long enough key to withstand the torque transmitted by the shaft. This also assures stability of the sprocket on the shaft.

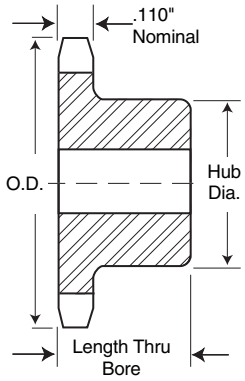
Martin Plastic Sprockets

No. 25 ¼" Pitch

Available with:

- Stock Bore
- Finished Bore Sizes





TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
9	25B9NM	0.837	0.731	B	0.250	0.250	0.594	0.500
10	25B10NM	0.919	0.809	B	0.250	0.313	0.563	0.485
11	25B11NM	1.001	0.887	B	0.250	0.375	0.563	0.485
12	25B12NM	1.083	0.966	B	0.250	0.438	0.688	0.485
13	25B13NM	1.164	1.045	B	0.250	0.500	0.750	0.485
14	25B14NM	1.245	1.123	B	0.375	0.500	0.750	0.485
15	25B15NM	1.326	1.202	B	0.375	0.500	0.750	0.485
16	25B16NM	1.407	1.281	B	0.375	0.500	0.813	0.485
17	25B17NM	1.487	1.361	B	0.375	0.500	0.906	0.485
18	25B18NM	1.568	1.440	B	0.375	0.500	1.000	0.485
19	25B19NM	1.648	1.519	B	0.375	0.500	1.063	0.485
20	25B20NM	1.728	1.598	B	0.375	0.500	1.156	0.485
21	25B21NM	1.809	1.677	B	0.375	0.500	1.156	0.485
22	25B22NM	1.889	1.757	B	0.375	0.500	1.156	0.485
23	25B23NM	1.969	1.836	B	0.375	0.500	1.156	0.485
24	25B24NM	2.049	1.915	B	0.500	0.188	1.781	0.700
25	25B25NM	2.129	1.995	B	0.500	1.000	1.860	0.700
26	25B26NM	2.209	2.074	B	0.500	0.188	1.938	0.700
27	25B27NM	2.289	2.153	B	0.500	1.000	2.000	0.700
28	25B28NM	2.369	2.233	B	0.500	0.188	1.219	0.700
29	25B29NM	2.449	2.312	B	0.500	1.000	2.000	0.700
30	25B30NM	2.529	2.392	B	0.500	1.000	2.000	0.700
31	25B31NM	2.609	2.471	B	0.500	1.000	2.000	0.700
32	25B32NM	2.688	2.551	B	0.500	1.000	2.000	0.700
33	25B33NM	2.688	2.630	B	0.500	1.000	2.000	0.700
34	25B34NM	2.848	2.709	B	0.500	1.000	2.000	0.700
35	25B35NM	2.928	2.789	B	0.500	1.000	2.000	0.700
36	25B36NM	3.008	2.868	B	0.500	1.000	2.000	0.700
37	25B37NM	3.087	2.948	B	0.500	1.000	2.000	0.700
39	25B39NM	3.167	3.107	B	0.500	1.000	2.000	0.700
40	25B40NM	3.327	3.186	B	0.500	1.000	2.000	0.700
41	25B41NM	3.406	3.266	B	0.500	1.000	2.000	0.700
42	25B42NM	3.486	3.345	B	0.500	1.000	2.000	0.700
43	25B43NM	3.566	3.425	B	0.500	1.000	2.000	0.700
44	25B44NM	3.646	3.504	B	0.500	1.000	2.000	0.700
45	25B45NM	3.725	3.584	B	0.500	1.000	2.000	0.700
46	25B46NM	3.805	3.663	B	0.500	1.000	2.000	0.700
47	25B47NM	3.885	3.743	B	0.500	1.000	2.000	0.700
48	25B48NM	3.964	3.822	B	0.500	1.000	2.000	0.700
49	25B49NM	4.044	3.902	B	0.500	1.500	2.000	0.750
50	25B50NM	4.124	3.981	B	0.500	1.500	2.000	0.750
54	25B54NM	4.442	4.300	B	0.500	1.500	2.000	0.750
60	25B60NM	4.920	4.777	B	0.500	0.875	1.375	0.610

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

No. 35
3/8" Pitch

Plastic Sprockets

Martin

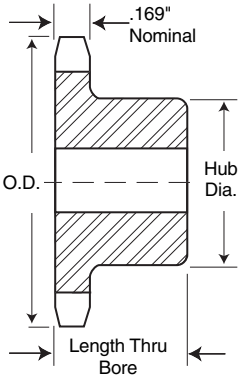
Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
8	35B8NM	1.130	0.980	B	0.250	0.375	.750*	0.750
9	35B9NM	1.096	1.096	B	0.250	0.375	.844*	0.750
10	35B10NM	1.379	1.214	B	0.375	0.438	.969*	0.750
11	35B11NM	1.502	1.331	B	0.375	0.500	1.063*	0.750
12	35B12NM	1.625	1.449	B	0.500	0.563	1.219*	0.750
13	35B13NM	1.746	1.567	B	0.500	0.500	1.250*	0.750
14	35B14NM	1.868	1.685	B	0.500	0.750	1.250	0.750
15	35B15NM	1.989	1.804	B	0.500	0.813	1.344	0.875
16	35B16NM	2.110	1.922	B	0.500	0.938	1.469	0.875
17	35B17NM	2.231	2.041	B	0.500	0.875	1.594	0.875
18	35B18NM	2.352	2.160	B	0.500	0.688	1.719	0.875
19	35B19NM	2.472	2.278	B	0.500	1.000	1.844	0.875
20	35B20NM	2.593	2.397	B	0.500	1.188	1.938	0.875
21	35B21NM	2.713	2.516	B	0.500	1.000	2.000	0.875
22	35B22NM	2.833	2.635	B	0.500	1.000	2.000	0.875
23	35B23NM	2.953	2.754	B	0.500	1.000	2.000	0.875
24	35B24NM	3.073	2.873	B	0.500	1.188	2.000	0.875
25	35B25NM	3.193	2.992	B	0.500	1.000	2.000	0.875
26	35B26NM	3.313	3.111	B	0.500	1.438	2.000	0.875
27	35B27NM	3.433	3.230	B	0.500	1.000	2.000	0.875
28	35B28NM	3.553	3.349	B	0.500	1.000	2.000	0.875
29	35B29NM	3.673	3.468	B	0.500	1.000	2.000	0.875
30	35B30NM	3.793	3.588	B	0.500	1.438	2.000	0.875
31	35B31NM	3.913	3.707	B	0.500	1.000	2.000	0.875
32	35B32NM	4.032	3.826	B	0.500	1.500	2.000	0.875
33	35B33NM	4.152	3.945	B	0.500	1.500	2.375	0.875
34	35B34NM	4.272	4.064	B	0.500	1.500	2.375	0.875
35	35B35NM	4.392	4.183	B	0.500	1.438	2.375	0.875
36	35B36NM	4.511	4.303	B	0.500	1.438	2.375	0.875
37	35B37NM	4.631	4.422	B	0.500	1.500	2.375	0.875
38	35B38NM	4.751	4.541	B	0.500	1.500	2.375	0.875
39	35B39NM	4.870	4.660	B	0.500	1.500	2.375	0.875
40	35B40NM	4.990	4.780	B	0.500	1.750	2.375	1.000
41	35B41NM	5.109	4.899	B	0.500	1.500	2.375	1.000
42	35B42NM	5.229	5.018	B	0.500	1.500	2.375	1.000
43	35B43NM	5.349	5.137	B	0.500	1.500	2.375	1.000
44	35B44NM	5.468	5.257	B	0.500	1.500	2.375	1.000
45	35B45NM	5.588	5.376	B	0.500	1.750	2.375	1.000
46	35B46NM	5.707	5.495	B	0.500	1.500	2.375	1.000
47	35B47NM	5.827	5.614	B	0.500	1.500	2.375	1.000
48	35B48NM	5.946	5.734	B	0.500	1.500	2.375	1.000

Available with:

- Stock Bore
- Finished Bore Sizes





TYPE B

* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

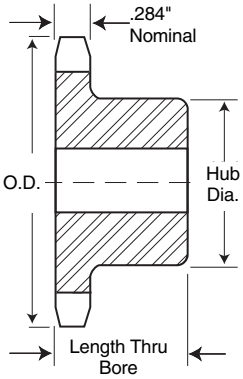
Martin Plastic Sprockets

No. 40 ½" Pitch

Available with:

- Stock Bore
- Finished Bore Sizes





TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
8	40B8NM	1.507	1.307	B	0.500	0.500	1.000	0.875
9	40B9NM	1.674	1.462	B	0.500	0.500	1.063	0.875
10	40B10NM	1.839	1.618	B	0.500	0.500	1.250	0.875
11	40B11NM	2.003	1.775	B	0.500	0.500	1.375	0.875
12	40B12NM	2.166	1.932	B	0.500	0.625	1.563	0.875
13	40B13NM	2.329	2.089	B	0.500	0.625	1.563	0.875
14	40B14NM	2.491	2.247	B	0.500	0.750	1.688	0.875
15	40B15NM	2.652	2.405	B	0.500	0.875	1.813	0.875
16	40B16NM	2.814	2.563	B	0.500	0.938	2.000	0.875
17	40B17NM	2.975	2.721	B	0.500	1.000	2.125	1.000
18	40B18NM	3.136	2.879	B	0.500	1.125	2.313	1.000
19	40B19NM	3.296	3.308	B	0.500	1.250	2.500	1.000
20	40B20NM	3.457	3.196	B	0.500	1.250	2.625	1.000
21	40B21NM	3.617	3.355	B	0.500	1.250	2.750	1.000
22	40B22NM	3.778	3.513	B	0.500	1.375	2.875	1.000
23	40B23NM	3.938	3.672	B	0.500	1.375	3.000	1.000
24	40B24NM	4.098	3.831	B	0.500	1.500	3.250	1.000
25	40B25NM	4.258	3.989	B	0.500	1.500	3.250	1.000
26	40B26NM	4.418	4.148	B	0.500	1.500	3.250	1.000
27	40B27NM	4.578	4.307	B	0.500	1.500	3.250	1.000
28	40B28NM	4.738	4.466	B	0.500	1.500	3.250	1.000
29	40B29NM	4.897	4.625	B	0.500	1.500	3.250	1.000
30	40B30NM	5.057	4.783	B	0.500	1.500	3.250	1.000
31	40B31NM	5.217	4.942	B	0.500	1.500	3.250	1.000
32	40B32NM	5.377	5.101	B	0.500	1.500	3.250	1.000
33	40B33NM	5.536	5.260	B	0.500	1.500	3.250	1.000
34	40B34NM	5.696	5.419	B	0.500	1.500	3.250	1.000
35	40B35NM	5.855	5.578	B	0.500	1.500	3.250	1.000
36	40B36NM	6.015	5.737	B	0.500	1.500	3.250	1.000
37	40B37NM	6.175	5.896	B	0.500	1.500	3.250	1.000
38	40B38NM	6.334	6.055	B	0.500	1.500	3.250	1.000
39	40B39NM	6.494	6.214	B	1.000	1.500	3.250	1.000
40	40B40NM	6.653	6.373	B	1.000	1.750	3.500	1.125
41	40B41NM	6.813	6.532	B	1.000	1.750	3.500	1.125
42	40B42NM	6.972	6.691	B	1.000	1.750	3.500	1.125
43	40B43NM	7.131	6.850	B	1.000	1.750	3.500	1.125
44	40B44NM	7.291	7.009	B	1.000	1.750	3.500	1.125
45	40B45NM	7.450	7.168	B	1.000	1.750	3.500	1.125
46	40B46NM	7.610	7.327	B	1.000	1.750	3.500	1.125
47	40B47NM	7.769	7.486	B	1.000	1.750	3.500	1.125
48	40B48NM	7.929	7.645	B	1.000	1.750	3.500	1.125

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

No. 50
5/8" Pitch

Plastic Sprockets

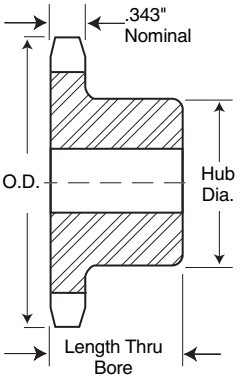
Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
9	50B9NM	2.092	1.827	B	0.500	0.625	1.375*	1.000
10	50B10NM	1.839	2.023	B	0.500	0.750	1.563*	1.000
11	50B11NM	2.504	2.218	B	0.500	0.875	1.750*	1.000
12	50B12NM	2.708	2.415	B	0.500	1.000	1.984*	1.000
13	50B13NM	2.911	2.612	B	0.500	0.875	1.875	1.000
14	50B14NM	3.113	2.803	B	0.500	1.000	2.125	1.000
15	50B15NM	3.315	3.006	B	0.500	1.250	2.375	1.000
16	50B16NM	3.517	3.204	B	0.500	1.250	2.500	1.000
17	50B17NM	3.718	3.401	B	0.500	1.375	2.688	1.000
18	50B18NM	3.920	3.599	B	0.500	1.500	2.875	1.000
19	50B19NM	4.120	3.797	B	0.500	1.625	3.000	1.000
20	50B20NM	4.321	3.995	B	0.500	1.625	3.000	1.000
21	50B21NM	4.522	4.193	B	0.500	1.625	3.000	1.000
22	50B22NM	4.722	4.392	B	0.500	1.625	3.000	1.000
23	50B23NM	4.922	4.590	B	0.500	1.625	3.000	1.000
24	50B24NM	5.122	4.788	B	0.500	1.625	3.000	1.250
25	50B25NM	5.322	4.987	B	0.500	1.625	3.000	1.250
26	50B26NM	5.522	5.185	B	0.500	1.625	3.000	1.250
27	50B27NM	5.722	5.384	B	0.500	1.625	3.000	1.250
28	50B28NM	5.922	5.582	B	0.500	1.625	3.000	1.250
29	50B29NM	6.122	5.781	B	0.500	1.625	3.000	1.250
30	50B30NM	6.321	5.979	B	0.500	1.750	3.750	1.250
31	50B31NM	6.521	6.178	B	0.500	1.750	3.750	1.250
32	50B32NM	6.721	6.376	B	0.500	1.750	3.750	1.250
33	50B33NM	6.920	6.575	B	0.500	1.750	3.750	1.250
34	50B34NM	7.120	6.774	B	0.500	1.750	3.750	1.250
35	50B35NM	7.319	6.972	B	0.500	1.750	3.750	1.250
36	50B36NM	7.519	7.171	B	0.500	1.750	3.750	1.250
37	50B37NM	7.718	7.370	B	0.500	1.750	3.750	1.250
38	50B38NM	7.918	7.568	B	0.500	1.750	3.750	1.250
39	50B39NM	8.117	7.767	B	0.500	1.750	3.750	1.250
40	50B40NM	8.316	7.966	B	0.750	2.000	3.500	1.250
41	50B41NM	8.516	8.165	B	0.750	2.000	3.500	1.250
42	50B42NM	8.715	8.363	B	0.750	2.000	3.500	1.250
43	50B43NM	8.914	8.562	B	0.750	2.000	3.500	1.250
44	50B44NM	9.114	8.761	B	0.750	2.000	3.500	1.250
45	50B45NM	9.313	8.960	B	0.750	2.375	4.000	1.250
46	50B46NM	9.512	9.159	B	0.750	2.375	4.000	1.250
47	50B47NM	9.711	9.357	B	0.750	2.375	4.000	1.250
48	50B48NM	9.911	9.556	B	0.750	2.375	4.000	1.250

Available with:

- Stock Bore
- Finished Bore Sizes





TYPE B

* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

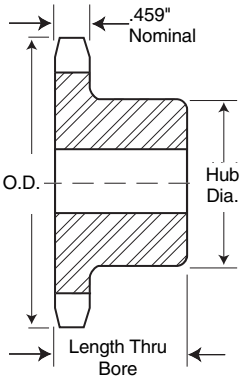
Martin Plastic Sprockets

No. 60 ¾" Pitch

Available with:

- Stock Bore
- Finished Bore Sizes





TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
8	60B8NM	2.261	1.960	B	0.500	0.625	1.500*	1.250
9	60B9NM	2.511	2.193	B	0.500	0.875	1.500*	1.250
10	60B10NM	2.758	2.427	B	0.500	1.000	0.500	1.250
11	60B11NM	3.004	2.662	B	0.750	1.000	2.000*	1.250
12	60B12NM	3.249	2.898	B	0.750	1.000	2.000	1.250
13	60B13NM	3.493	3.134	B	0.750	1.000	2.313	1.250
14	60B14NM	3.736	3.370	B	0.750	1.000	2.500	1.250
15	60B15NM	3.978	3.607	B	0.750	1.000	2.875	1.250
16	60B16NM	4.221	3.844	B	0.750	1.000	3.000	1.250
17	60B17NM	4.462	4.082	B	1.000	2.000	3.250	1.250
18	60B18NM	4.703	4.319	B	1.000	2.000	3.500	1.250
19	60B19NM	4.945	4.557	B	1.000	2.000	3.500	1.250
20	60B20NM	5.185	4.794	B	1.000	2.000	3.875	1.250
21	60B21NM	5.426	5.032	B	1.000	2.000	4.000	1.250
22	60B22NM	5.666	5.270	B	1.000	2.000	4.000	1.250
23	60B23NM	5.907	5.508	B	1.000	2.000	4.000	1.250
24	60B24NM	6.147	5.746	B	1.000	2.000	4.000	1.250
25	60B25NM	6.387	5.984	B	1.000	2.000	4.000	1.250
26	60B26NM	6.627	6.222	B	1.000	2.500	4.000	1.250
27	60B27NM	6.867	6.460	B	1.000	2.500	4.000	1.250
28	60B28NM	7.106	6.699	B	1.000	2.500	4.000	1.250
29	60B29NM	7.346	6.937	B	1.000	2.500	4.000	1.250
30	60B30NM	7.586	7.175	B	1.000	2.500	4.000	1.250
31	60B31NM	7.825	7.413	B	1.000	2.500	4.000	1.250
32	60B32NM	8.065	7.652	B	1.000	2.500	4.000	1.250
33	60B33NM	8.304	7.890	B	1.000	2.500	4.000	1.250
34	60B34NM	8.544	8.128	B	1.000	3.000	4.500	1.250
35	60B35NM	8.783	8.367	B	1.000	3.000	4.500	1.250
36	60B36NM	9.023	8.605	B	1.000	3.000	4.500	1.250
37	60B37NM	9.262	8.844	B	1.000	3.000	4.500	1.250
38	60B38NM	9.501	9.082	B	1.000	3.000	4.500	1.250
39	60B39NM	9.740	9.321	B	1.000	3.000	4.500	1.250
40	60B40NM	9.980	9.559	B	1.000	3.000	4.500	1.250
41	60B41NM	10.219	9.798	B	1.000	3.000	4.500	1.250
42	60B42NM	10.458	10.036	B	1.000	3.500	5.000	1.250
43	60B43NM	10.697	10.275	B	1.000	3.500	5.000	1.250
44	60B44NM	10.936	10.513	B	1.000	3.500	5.000	1.250
45	60B45NM	11.175	10.752	B	1.000	3.500	5.000	1.250
46	60B46NM	11.415	10.990	B	1.000	3.500	5.000	1.250
47	60B47NM	11.654	11.229	B	1.000	3.500	5.000	1.250
48	60B48NM	11.893	11.467	B	1.000	3.500	5.000	1.250
49	60B49NM	12.132	11.706	B	1.000	3.500	5.000	1.250
50	60B50NM	12.371	11.944	B	1.000	3.500	5.000	1.250

* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

No. 80
1" Pitch

Plastic Sprockets

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
8	80B8NM	3.014	2.613	B	0.750	1.000	2.000*	1.500
9	80B9NM	3.347	2.924	B	0.750	1.000	2.000*	1.500
10	80B10NM	3.678	3.236	B	0.750	1.000	2.000	1.500
11	80B11NM	4.006	3.549	B	0.750	1.000	2.000	1.500
12	80B12NM	4.332	3.864	B	0.750	1.000	2.000	1.500
13	80B13NM	4.657	4.179	B	1.000	2.000	3.250	1.500
14	80B14NM	4.981	4.494	B	1.000	2.000	3.250	1.500
15	80B15NM	5.305	4.810	B	1.000	2.000	3.250	1.500
16	80B16NM	5.627	5.126	B	1.000	2.000	3.250	1.500
17	80B17NM	5.950	5.442	B	1.000	2.000	3.250	1.500
18	80B18NM	6.271	5.759	B	1.000	2.000	3.250	1.500
19	80B19NM	6.593	6.076	B	1.000	2.500	4.000	1.500
20	80B20NM	6.914	6.392	B	1.000	2.500	4.000	1.500
21	80B21NM	7.235	6.710	B	1.000	2.500	4.000	1.750
22	80B22NM	7.555	7.027	B	1.000	2.500	4.000	1.750
23	80B23NM	7.876	7.344	B	1.000	2.500	4.000	1.750
24	80B24NM	8.196	7.661	B	1.000	2.500	4.000	1.750
25	80B25NM	8.516	7.979	B	1.000	2.500	4.000	1.750
26	80B26NM	8.836	8.296	B	1.000	3.000	4.500	2.000
27	80B27NM	9.156	8.614	B	1.000	3.000	4.500	2.000
28	80B28NM	9.475	8.931	B	1.000	3.000	4.500	2.000
29	80B29NM	9.795	9.249	B	1.000	3.000	4.500	2.000
30	80B30NM	10.114	9.567	B	1.000	3.000	4.500	2.000
31	80B31NM	10.434	9.885	B	1.000	3.000	4.500	2.000
32	80B32NM	10.753	10.202	B	1.000	3.500	5.000	2.000
33	80B33NM	11.072	10.520	B	1.000	3.500	5.000	2.000
34	80B34NM	11.392	10.838	B	1.000	3.500	5.000	2.000
35	80B35NM	11.711	11.156	B	1.000	3.500	5.000	2.000
36	80B36NM	12.030	11.474	B	1.000	3.500	5.000	2.000
37	80B37NM	12.349	11.792	B	1.000	3.500	5.000	2.000
38	80B38NM	12.668	12.110	B	1.000	4.000	5.500	2.000
39	80B39NM	12.987	12.428	B	1.000	4.000	5.500	2.000
40	80B40NM	13.306	12.746	B	1.000	4.000	5.500	2.000
41	80B41NM	13.625	13.063	B	1.000	4.000	5.500	2.000
42	80B42NM	13.944	13.382	B	1.000	4.000	5.500	2.000
43	80B43NM	14.263	13.700	B	1.000	4.000	5.500	2.000
44	80B44NM	14.582	14.018	B	1.000	4.000	6.000	2.000
45	80B45NM	14.901	14.336	B	1.000	4.000	6.000	2.000
46	80B46NM	15.219	14.654	B	1.000	4.000	6.000	2.000
47	80B47NM	15.538	14.972	B	1.000	4.000	6.000	2.000
48	80B48NM	15.857	15.290	B	1.000	4.000	6.000	2.000
49	80B49NM	16.176	15.608	B	1.000	4.000	6.000	2.000
50	80B50NM	16.495	15.926	B	1.000	4.000	6.000	2.000

* Has recessed groove for chain clearance.

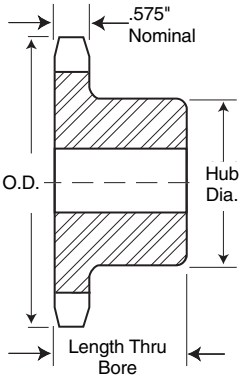
Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

Available with:

- Stock Bore
- Finished Bore Sizes





TYPE B

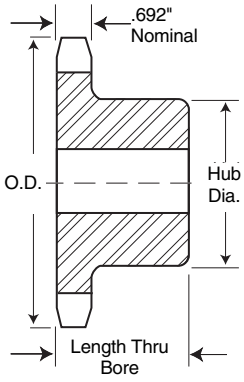
Martin Plastic Sprockets

No. 100 1 ¼" Pitch

Available with:

- Stock Bore
- Finished Bore Sizes





TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
8	100B8NM	3.768	3.266	B	0.750	1.000	2.000	1.750
9	100B9NM	4.184	3.655	B	0.750	1.000	2.000	1.750
10	100B10NM	4.597	4.045	B	1.000	2.250	3.250	1.750
11	100B11NM	5.007	4.437	B	1.000	2.250	3.250	1.750
12	100B12NM	5.415	4.830	B	1.000	2.250	3.250	1.750
13	100B13NM	5.821	5.223	B	1.000	2.250	3.250	1.750
14	100B14NM	6.227	5.617	B	1.000	2.250	3.250	1.750
15	100B15NM	6.631	6.012	B	1.000	2.500	4.000	1.750
16	100B16NM	7.034	6.407	B	1.000	2.500	4.000	1.750
17	100B17NM	7.437	6.803	B	1.000	2.500	4.000	1.750
18	100B18NM	7.839	7.198	B	1.000	2.500	4.000	1.750
19	100B19NM	8.241	7.594	B	1.000	2.500	4.000	2.000
20	100B20NM	8.642	7.991	B	1.000	2.500	4.000	2.000
21	100B21NM	9.043	8.387	B	1.000	3.000	4.500	2.000
22	100B22NM	9.444	8.783	B	0.500	3.000	4.500	2.000
23	100B23NM	9.844	9.180	B	0.500	3.000	4.500	2.000
24	100B24NM	10.245	9.577	B	0.500	3.000	4.500	2.000
25	100B25NM	10.645	9.973	B	0.500	3.000	4.500	2.000
26	100B26NM	11.045	10.370	B	0.500	3.500	5.000	2.000
27	100B27NM	11.444	10.767	B	0.500	3.500	5.000	2.000
28	100B28NM	11.844	11.164	B	0.500	3.500	5.000	2.000
29	100B29NM	12.244	11.561	B	0.500	3.500	5.000	2.000
30	100B30NM	12.643	11.958	B	0.500	3.500	5.000	2.000
31	100B31NM	13.043	12.356	B	0.500	4.000	5.500	2.000
32	100B32NM	13.441	12.753	B	0.500	4.000	5.500	2.000
33	100B33NM	13.841	13.150	B	0.500	4.000	5.500	2.000
34	100B34NM	14.240	13.547	B	0.500	4.000	5.500	2.000
35	100B35NM	14.639	13.945	B	0.500	4.000	5.500	2.500
36	100B36NM	15.038	14.342	B	1.000	4.000	5.500	2.500
37	100B37NM	15.436	14.740	B	1.000	4.000	6.000	2.500
38	100B38NM	15.835	15.137	B	1.000	4.000	6.000	2.500
39	100B39NM	16.234	15.534	B	1.000	4.000	6.000	2.500
40	100B40NM	16.633	15.932	B	1.000	4.000	6.000	2.500
41	100B41NM	17.031	16.329	B	1.000	4.000	6.000	2.500
42	100B42NM	17.430	16.727	B	1.000	4.000	6.000	2.500
43	100B43NM	17.829	17.124	B	1.000	4.000	6.000	2.500
44	100B44NM	18.228	17.522	B	1.000	4.000	6.000	2.500
45	100B45NM	18.626	17.919	B	1.000	4.000	6.000	2.500
46	100B46NM	19.024	18.317	B	1.000	4.000	6.000	2.500
47	100B47NM	19.423	18.715	B	1.000	4.000	6.000	2.500
48	100B48NM	19.821	19.112	B	1.000	4.000	6.000	2.500
49	100B49NM	20.220	19.510	B	1.000	4.000	6.000	2.500
50	100B50NM	20.619	19.907	B	1.000	4.000	6.000	2.500

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

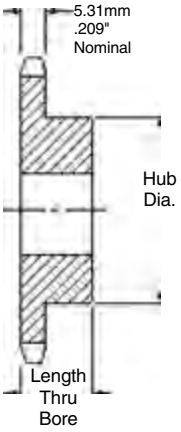
Metric Plastic Sprockets

ISO 08B-1
METRIC 40

0.500 INCH (12.70mm) PITCH SIMPLEX



TYPE B



CHAIN DATA:
BS 228/7ISO
08B-1PITCH: 12.70mm (0.500 in.)
ROLLER DIAMETER: 8.51mm (0.335 in.)
ROLLER WIDTH: 7.75mm (0.305 in.)
TENSILE: 1820 kilos (4000 lbs.)

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
11	08B11NM	52.4	45.00	B	12.00	20.00	34.93	22.23
12	08B12NM	56.4	49.10	B	12.00	25.00	39.67	22.23
13	08B13NM	60.4	53.10	B	12.00	25.00	39.67	22.23
14	08B14NM	64.4	57.10	B	12.00	25.00	42.86	22.23
15	08B15NM	68.4	61.10	B	12.00	30.00	46.02	22.23
16	08B16NM	72.5	65.10	B	15.00	35.00	50.80	22.23
17	08B17NM	76.5	69.10	B	15.00	40.00	53.98	25.40
18	08B18NM	80.5	73.10	B	15.00	40.00	58.72	25.40
19	08B19NM	84.5	77.20	B	15.00	45.00	63.50	25.40
20	08B20NM	88.6	81.20	B	15.00	45.00	66.68	25.40
21	08B21NM	92.6	85.20	B	15.00	45.00	69.85	25.40
22	08B22NM	96.6	89.20	B	15.00	45.00	73.03	25.40
23	08B23NM	100.6	93.30	B	15.00	50.00	76.20	25.40
24	08B24NM	104.7	97.30	B	15.00	50.00	82.55	25.40
25	08B25NM	108.7	101.30	B	15.00	55.00	82.55	25.40
26	08B26NM	112.7	105.30	B	15.00	55.00	82.55	25.40
27	08B27NM	116.8	109.40	B	15.00	55.00	82.55	25.40
28	08B28NM	120.8	113.40	B	15.00	55.00	82.55	25.40
29	08B29NM	124.8	117.50	B	15.00	55.00	82.55	25.40
30	08B30NM	128.9	121.00	B	15.00	55.00	82.55	25.40

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.625 INCH (15.88mm) PITCH SIMPLEX

ISO 10B-1
METRIC 50

CHAIN DATA:
BS 228/11ISO 10B-1
PITCH: 15.88mm (0.625 in.)
ROLLER DIAMETER: 10.16mm (0.400 in.)
ROLLER WIDTH: 9.65mm (0.380 in.)
TENSILE: 2270 kilos (4500 lbs.)





TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
11	10B11NM	66.0	56.40	B	15.00	25.00	44.45	25.40
12	10B12NM	71.0	61.30	B	15.00	30.00	50.39	25.40
13	10B13NM	76.0	66.30	B	15.00	30.00	47.63	25.40
14	10B14NM	81.0	71.30	B	15.00	35.00	53.98	25.40
15	10B15NM	86.0	76.40	B	15.00	35.00	60.33	25.40
16	10B16NM	91.1	81.40	B	15.00	40.00	63.50	25.40
17	10B17NM	96.1	86.40	B	15.00	40.00	68.25	25.40
18	10B18NM	101.1	91.40	B	15.00	45.00	73.03	25.40
19	10B19NM	106.1	96.40	B	15.00	50.00	76.20	25.40
20	10B20NM	111.2	101.50	B	20.00	50.00	76.20	25.40
21	10B21NM	116.2	106.50	B	20.00	50.00	76.20	25.40
22	10B22NM	121.2	111.60	B	20.00	50.00	76.20	25.40
23	10B23NM	126.3	116.60	B	20.00	50.00	76.20	25.40
24	10B24NM	131.3	121.60	B	20.00	50.00	76.20	31.75
25	10B25NM	136.3	126.70	B	20.00	50.00	76.20	31.75
26	10B26NM	141.4	131.70	B	20.00	50.00	76.20	31.75
27	10B27NM	146.4	136.80	B	20.00	50.00	76.20	31.75
28	10B28NM	151.5	141.80	B	20.00	50.00	76.20	31.75
29	10B29NM	155.49	146.80	B	20.00	50.00	76.20	31.75
30	10B30NM	161.6	151.90	B	20.00	55.00	82.55	31.75

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

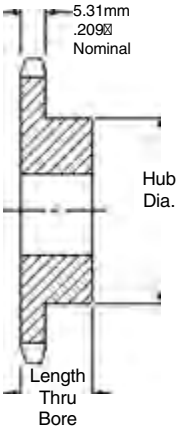
Metric Plastic Sprockets

ISO 12B-1
METRIC 60

0.750 INCH (19.05mm) PITCH SIMPLEX



TYPE B



CHAIN DATA:
BS 228/13ISO 12B-1
PITCH: 19.05mm (0.750 in.)
ROLLER DIAMETER: 12.07mm (0.475 in.)
ROLLER WIDTH: 11.68mm (0.460 in.)
TENSILE: 2950 kilos (6500 lbs.)

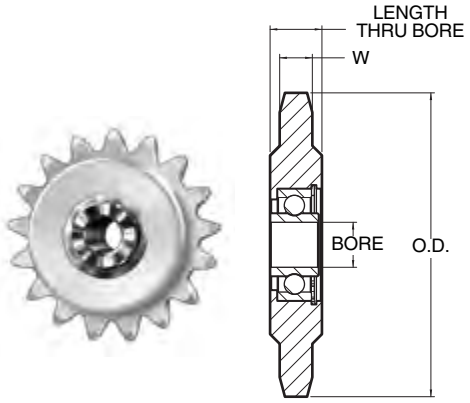
Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Outside	Pitch		Stock	Max	Hub Diameter	Length Thru Bore
11	12B11NM	79.4	67.64	B	18.00	30.00	52.37	31.75
12	12B12NM	85.4	73.61	B	18.00	35.00	60.32	31.75
13	12B13NM	91.3	79.60	B	18.00	35.00	59.51	31.75
14	12B14NM	97.4	85.60	B	18.00	40.00	65.07	31.75
15	12B15NM	103.4	91.60	B	18.00	45.00	73.03	31.75
16	12B16NM	109.4	97.60	B	18.00	50.00	77.77	31.75
17	12B17NM	115.4	103.70	B	18.00	55.00	82.55	31.75
18	12B18NM	121.5	109.70	B	18.00	60.00	88.90	31.75
19	12B19NM	127.5	115.70	B	18.00	60.00	88.90	31.75
20	12B20NM	133.5	121.80	B	18.00	65.00	98.43	31.75
21	12B21NM	139.6	127.90	B	18.00	70.00	101.60	31.75
22	12B22NM	145.6	133.90	B	18.00	70.00	101.60	31.75
23	12B23NM	151.6	139.90	B	18.00	70.00	101.60	31.75
24	12B24NM	157.7	145.90	B	18.00	70.00	101.60	31.75
25	12B25NM	163.7	152.00	B	18.00	70.00	101.60	31.75
26	12B26NM	169.8	158.00	B	18.00	70.00	101.60	31.75
27	12B27NM	175.8	164.10	B	18.00	70.00	101.60	31.75
28	12B28NM	181.9	170.20	B	18.00	70.00	101.60	31.75
29	12B29NM	186.6	176.20	B	18.00	70.00	101.60	31.75
30	12B30NM	194.0	182.20	B	18.00	70.00	101.60	31.75

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Non-Metallic Teeth – Ball Bearing Type



Ball Bearing Idler Sprockets - Non Metallic Teeth

Number of Teeth	Catalog Number	Bearing Tupe	Chain Size	O.D.	Stock Bore	Length Thru Bore	Wt. Lbs. Approx.
17	40BB17NM 1/2	Ball	40	2.97	0.510	0.720	0.284
18	40BB18NM 5/8	Ball	40	3.14	0.638	0.720	0.284
17	50BB17NM 1/2	Ball	50	3.72	0.510	0.720	0.343
18	50BB18NM 5/8	Ball	50	3.92	0.638	0.720	0.343
15	60BB15NM 1/2	Ball	60	3.98	0.510	0.720	0.459
16	60BB16NM 5/8	Ball	60	4.22	0.638	0.720	0.459
12	80BB12NM 3/4	Ball	80	4.33	0.750	0.610	0.575

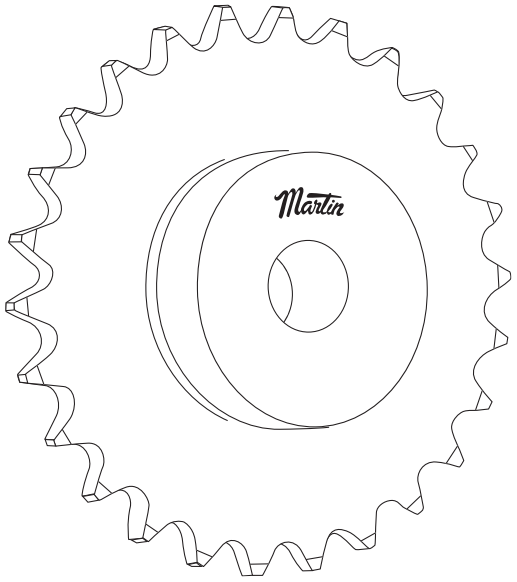
Note: .510 Stock Bore is +.005 -.000; .638 Stock Bore Is +.005 -.000;
.750 Stock Bore Is +.005 -.000

Radial Load Capacity in Pounds at Various Speeds Ball Bearings

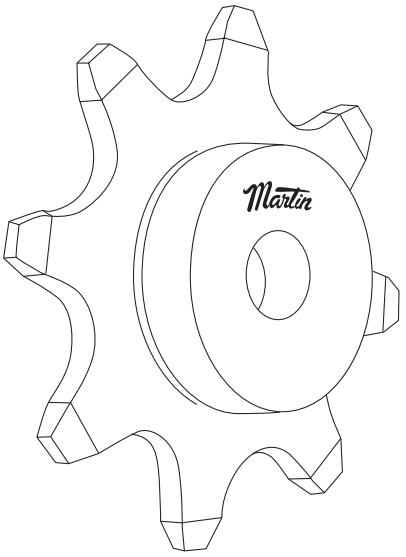
Idler Size	RPM					
	100	500	1000	1500	2000	2500
3/8" Bore	620	363	288	252	229	212
1/2" & 5/8" Bore	800	460	360	320	290	270
3/4" Bore	1290	755	600	523	478	440

Ratings shown above are based on an average bearing life of 2500 hours.

Double Pitch Plastic Sprockets



Standard Roller Double Duty



Carrier Roller

Double-Pitch Sprockets



Standard Rollers



Carrier Rollers

Series C-2000 chains have rollers of the same diameters and widths as American Standard Roller Chains of one half the conveyor chain pitch. Engaged by every other tooth, double duty sprockets have two teeth per chain pitch. During each revolution only half the teeth function effectively. Sprockets with odd numbers of teeth will allow any given tooth to engage only on every other revoution, automatically increasing sprocket life. Double duty sprockets with even number of teeth may be manually advanced one tooth periodically to increase sprocket life. Martin Stock C-2000 series sprockets are furnished double duty only.

Sprockets for the C-2002 series chain with carrier rollers are cut with space cutters or standard hobs for the American Standard roller Chain of the same diameter. Each sprocket tooth meshes with these chains. Double-duty sprockets cannot be made for double pitch chain with Carrier Rollers.

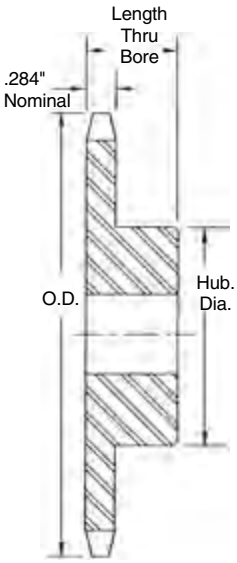
NOTE: For drives of 31 teeth or more we recommend using Standard sprockets with series C-2000 chains.

All altered double pitch sprockets requiring a keyway will be furnished with keyway on center line of tooth, unless otherwise specified.

Double Pitch Plastic Sprockets

Martin manufactures sprockets for double pitch roller chain. Double Pitch Sprockets reduce sprocket contact with the chain by half, engaging every other sprocket tooth. This reduces wear and thus increases sprocket longevity.

The standard material used on Martin's non-metallic Double Pitch Sprocket is UHMW. Other materials such as nylon or acetal may be requested. Consult Martin for selection assistance when special applications are required.



TYPE B

1-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2040/C2040 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
11	2040B11NM	1.850	2.000	B	0.500	0.813	1.375*	0.875
12	2040B12NM	2.000	2.170	B	0.500	0.813	1.563*	0.875
13	2040B13NM	2.150	2.330	B	0.500	0.656	1.563*	0.875
14	2040B14NM	2.310	2.490	B	0.500	1.031	1.688*	0.875
15	2040B15NM	2.460	2.650	B	0.500	1.219	1.719	0.875
16	2040B16NM	2.610	2.810	B	0.500	1.281	1.875	0.875
17	2040B17NM	2.770	2.980	B	0.500	1.313	2.047	1.000
18	2040B18NM	2.920	3.140	B	0.500	1.469	2.219	1.000
19	2040B19NM	3.080	3.300	B	0.500	1.625	2.375	1.000
20	2040B20NM	3.240	3.460	B	0.500	1.625	2.547	1.000
21	2040B21NM	3.390	3.620	B	0.500	1.781	2.703	1.000
22	2040B22NM	3.550	3.780	B	0.500	1.875	2.875	1.000
23	2040B23NM	3.710	3.940	B	0.500	2.000	3.000	1.000
24	2040B24NM	3.860	4.100	B	0.500	2.250	3.250	1.000
25	2040B25NM	4.020	4.260	B	0.500	2.250	3.250	1.000
26	2040B26NM	4.180	4.420	B	0.500	2.250	3.250	1.000
28	2040B28NM	4.490	4.740	B	0.500	2.250	3.250	1.000
30	2040B30NM	4.810	5.060	B	0.500	2.250	3.250	1.000

* Recessed groove in hub for chain clearance.

Conveyor or Drive Series — Carrier Roller Double Pitch — 2042/C2042 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
8	2042B8NM	2.610	3.010	B	0.500	1.281	1.875	0.875
9	2042B9NM	2.920	3.350	B	0.500	1.469	2.219	0.875
10	2042B10NM	3.240	3.680	B	0.500	1.750	2.547	1.000
11	2042B11NM	3.550	4.000	B	0.500	1.875	2.625	1.000
12	2042B12NM	3.860	4.330	B	0.500	2.250	3.063	1.000
13	2042B13NM	4.180	3.660	B	0.500	2.250	3.250	1.000
14	2042B14NM	4.490	4.980	B	0.500	2.250	3.250	1.000
15	2042B15NM	4.810	5.300	B	0.500	2.250	3.250	1.000
16	2042B16NM	5.130	5.630	B	0.500	2.250	3.250	1.000
17	2042B17NM	5.440	5.950	B	0.500	2.250	3.250	1.000
18	2042B18NM	5.760	6.270	B	0.500	2.250	3.250	1.000
19	2042B19NM	6.080	6.590	B	0.500	2.250	3.250	1.000
20	2042B20NM	6.390	6.910	B	0.500	2.375	3.500	1.125
21	2042B21NM	6.710	7.240	B	0.500	2.375	3.500	1.125
22	2042B22NM	7.010	7.560	B	0.500	2.375	3.500	1.125
23	2042B23NM	7.340	7.880	B	0.500	2.375	3.500	1.125
24	2042B24NM	7.660	8.200	B	0.500	2.375	3.500	1.125
25	2042B25NM	7.980	8.520	B	0.500	2.375	3.500	1.125
26	2042B26NM	8.300	8.840	B	0.500	2.375	3.500	1.125
28	2042B28NM	8.930	9.480	B	0.500	2.375	3.500	1.125
30	2042B30NM	9.570	10.110	B	0.500	2.375	3.500	1.125

• Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible mwith no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Double Pitch Plastic Sprockets

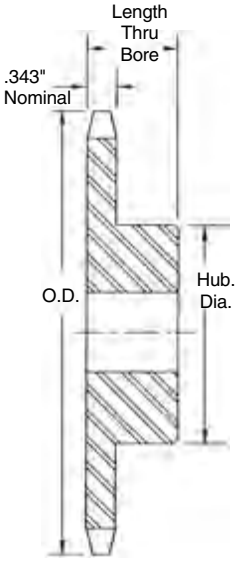
Martin manufactures sprockets for double pitch roller chain. Double Pitch Sprockets reduce sprocket contact with the chain by half, engaging every other sprocket tooth. This reduces wear and thus increases sprocket longevity.

The standard material used on Martin's non-metallic Double Pitch Sprocket is UHMW. Other materials such as nylon or acetal may be requested. Consult Martin for selection assistance when special applications are required.

1-1/4-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2050/C2050 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
11	2050B11NM	2.315	2.500	B	0.500	0.813	1.750*	1.000
12	2050B12NM	2.500	2.710	B	0.500	1.000	1.984	1.000
13	2050B13NM	2.690	2.910	B	0.500	1.219	1.719	1.000
14	2050B14NM	2.881	3.110	B	0.500	1.281	1.938	1.000
15	2050B15NM	3.073	3.320	B	0.500	1.406	2.156	1.000
16	2050B16NM	3.266	3.520	B	0.500	1.594	2.359	1.000
17	2050B17NM	3.460	3.720	B	0.500	1.750	2.563	1.000
18	2050B18NM	3.655	3.920	B	0.500	1.781	2.781	1.000
19	2050B19NM	3.850	4.120	B	0.500	1.969	2.984	1.000
20	2050B20NM	4.045	4.320	B	0.500	2.000	3.000	1.000
21	2050B21NM	4.241	4.520	B	0.500	2.000	3.000	1.000
22	2050B22NM	4.437	4.720	B	0.500	2.000	3.000	1.000
23	2050B23NM	4.633	4.920	B	0.500	2.000	3.000	1.000
24	2050B24NM	4.830	5.120	B	0.500	2.000	3.000	1.250
25	2050B25NM	5.026	5.320	B	0.500	2.000	3.000	1.250
26	2050B26NM	5.223	5.520	B	0.500	2.000	3.000	1.250
28	2050B28NM	5.617	5.920	B	0.500	2.000	3.000	1.250
30	2050B30NM	6.012	6.320	B	0.500	2.250	3.250	1.250

• Recessed groove in hub for chain clearance.



TYPE B

Conveyor or Drive Series — Carrier Roller Double Pitch — 2052/C2052 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
8	2052B08NM	3.266	3.770	B	0.500	1.594	2.359	1.000
9	2052B09NM	3.655	4.190	B	0.500	1.781	2.781	1.000
10	2052B10NM	4.045	4.600	B	0.500	2.000	3.000	1.000
11	2052B11NM	4.437	5.010	B	0.500	2.000	3.000	1.000
12	2052B12NM	4.830	5.420	B	0.500	2.000	3.000	1.250
13	2052B13NM	5.223	5.820	B	0.500	2.000	3.000	1.250
14	2052B14NM	5.617	6.230	B	0.500	2.000	3.000	1.250
15	2052B15NM	6.012	6.630	B	0.500	2.250	3.250	1.250
16	2052B16NM	6.407	7.030	B	0.500	2.250	3.250	1.250
17	2052B17NM	6.803	7.440	B	0.500	2.250	3.250	1.250
18	2052B18NM	7.198	7.840	B	0.500	2.250	3.250	1.250
19	2052B19NM	7.595	8.240	B	0.500	2.250	3.250	1.250
20	2052B20NM	7.991	8.640	B	0.500	2.250	3.250	1.250
21	2052B21NM	8.387	9.040	B	0.500	2.250	3.250	1.250
22	2052B22NM	8.783	9.440	B	0.500	2.250	3.250	1.250
23	2052B23NM	9.180	9.850	B	0.500	2.750	3.750	1.250
24	2052B24NM	9.577	10.250	B	0.500	2.750	3.750	1.250
25	2052B25NM	9.973	10.650	B	0.500	2.750	3.750	1.250
26	2052B26NM	10.370	11.050	B	0.500	2.750	3.750	1.250
28	2052B28NM	11.164	11.840	B	0.500	2.750	3.750	1.250
30	2052B30NM	11.958	12.640	B	0.500	2.750	3.750	1.250

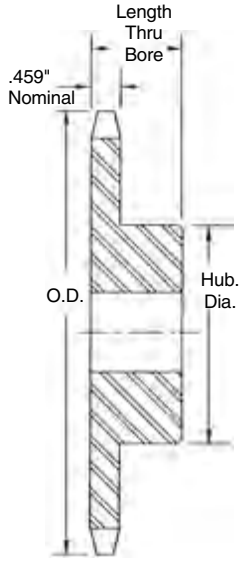
• Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Double Pitch Plastic Sprockets

Martin manufactures sprockets for double pitch roller chain. Double Pitch Sprockets reduce sprocket contact with the chain by half, engaging every other sprocket tooth. This reduces wear and thus increases sprocket longevity.

The standard material used on Martin's non-metallic Double Pitch Sprocket is UHMW. Other materials such as nylon or acetal may be requested. Consult Martin for selection assistance when special applications are required.



TYPE B

1-1/2-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2060/C2060 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
11	2060B11NM	2.773	3.000	B	0.500	1.000	2.063*	1.250
12	2060B12NM	3.000	3.250	B	0.500	1.250	2.375*	1.250
13	2060B13NM	3.228	3.490	B	0.500	1.313	2.078	1.250
14	2060B14NM	3.457	3.740	B	0.500	1.563	2.328	1.250
15	2060B15NM	3.699	3.980	B	0.500	1.750	2.594	1.250
16	2060B16NM	3.920	4.220	B	0.500	1.844	2.844	1.250
17	2060B17NM	4.152	4.460	B	0.500	2.094	3.094	1.250
18	2060B18NM	4.386	4.700	B	0.500	2.281	3.344	1.250
19	2060B19NM	4.620	4.940	B	0.500	2.344	3.500	1.250
20	2060B20NM	4.854	5.190	B	0.500	2.563	3.875	1.250
21	2060B21NM	5.089	5.430	B	0.500	2.750	4.000	1.250
22	2060B22NM	5.324	5.670	B	0.500	2.750	4.000	1.250
23	2060B23NM	5.560	5.910	B	0.500	2.750	4.000	1.250
24	2060B24NM	5.796	6.150	B	0.500	2.750	4.000	1.250
25	2060B25NM	6.032	6.390	B	0.500	2.750	4.000	1.250
26	2060B26NM	6.268	6.630	B	0.500	2.750	4.000	1.250
28	2060B28NM	6.741	7.110	B	0.500	2.750	4.000	1.250
30	2060B30NM	7.215	7.590	B	0.500	2.750	4.000	1.250

• Recessed groove in hub for chain clearance.

Conveyor or Drive Series — Carrier Roller Double Pitch — 2062/C2062 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
8	2062B08NM	3.920	4.520	B	0.500	1.844	2.844	1.250
9	2062B09NM	4.386	5.020	B	0.500	2.281	3.344	1.250
10	2062B10NM	4.854	5.520	B	0.500	2.563	3.828	1.250
11	2062B11NM	5.324	6.010	B	0.500	2.750	4.000	1.250
12	2062B12NM	5.796	6.500	B	0.500	2.750	4.000	1.250
13	2062B13NM	6.268	6.990	B	0.500	2.750	4.000	1.250
14	2062B14NM	6.741	7.470	B	0.500	2.750	4.000	1.250
15	2062B15NM	7.215	7.960	B	0.500	2.250	4.000	1.250
16	2062B16NM	7.689	8.440	B	0.500	2.250	4.000	1.250
17	2062B17NM	8.163	8.920	B	0.500	2.250	4.000	1.250
18	2062B18NM	8.638	9.410	B	0.500	2.250	4.000	1.250
19	2062B19NM	9.113	9.890	B	0.500	2.250	4.250	1.250
20	2062B20NM	9.589	10.370	B	0.500	2.250	4.250	1.250
21	2062B21NM	10.064	10.850	B	0.500	2.250	4.250	1.250
22	2062B22NM	10.540	11.330	B	0.500	2.250	4.250	1.250
23	2062B23NM	11.016	11.810	B	0.500	2.750	4.250	1.250
24	2062B24NM	11.492	12.290	B	0.500	2.750	4.250	1.250
25	2062B25NM	11.968	12.770	B	0.500	2.750	4.250	1.250
26	2062B26NM	12.444	13.250	B	0.500	2.750	4.250	1.750
28	2062B28NM	13.397	14.210	B	0.500	2.750	4.250	1.750
30	2062B30NM	14.350	15.170	B	0.500	2.750	4.250	1.750

• Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Double Pitch Plastic Sprockets

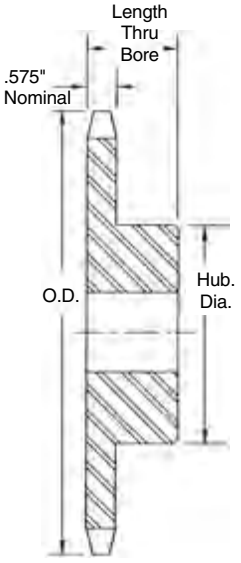
Martin manufactures sprockets for double pitch roller chain. Double Pitch Sprockets reduce sprocket contact with the chain by half, engaging every other sprocket tooth. This reduces wear and thus increases sprocket longevity.

The standard material used on Martin's non-metallic Double Pitch Sprocket is UHMW. Other materials such as nylon or acetal may be requested. Consult Martin for selection assistance when special applications are required.

2-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2080/C2080 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
11	2080B11NM	3.694	4.010	B	0.500	1.500	2.813*	1.625
12	2080B12NM	4.000	4.330	B	0.500	1.688	3.125*	1.625
13	2080B13NM	4.304	4.660	B	0.500	1.781	2.750	1.500
14	2080B14NM	4.610	4.980	B	0.500	2.125	3.125	1.500
15	2080B15NM	4.917	5.300	B	0.500	2.281	3.438	1.500
16	2080B16NM	5.226	5.630	B	0.500	2.531	3.750	1.500
17	2080B17NM	5.530	5.950	B	0.500	2.750	4.000	1.500
18	2080B18NM	5.848	6.270	B	0.500	2.750	4.250	1.500
19	2080B19NM	6.160	6.590	B	0.500	2.750	4.250	1.500
20	2080B20NM	6.472	6.910	B	0.500	2.750	4.250	1.500
21	2080B21NM	6.785	7.230	B	0.500	2.750	4.250	1.500
22	2080B22NM	7.099	7.560	B	0.500	2.750	4.250	1.750
23	2080B23NM	7.413	7.880	B	0.500	2.750	4.250	1.750
24	2080B24NM	7.727	8.200	B	0.500	2.750	4.250	1.750
25	2080B25NM	8.042	8.520	B	0.500	2.750	4.250	1.750
26	2080B26NM	8.357	8.840	B	0.500	3.250	4.750	2.000
28	2080B28NM	8.988	9.480	B	0.500	3.250	4.750	2.000
30	2080B30NM	9.620	10.110	B	0.500	3.250	4.750	2.000

• Recessed groove in hub for chain clearance.



TYPE B

Conveyor or Drive Series — Carrier Roller Double Pitch — 2082/C2082 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max	Hub Diameter	Length Thru Bore
8	2082B08NM	5.226	6.030	B	0.500	2.531	3.750	1.750
9	2082B09NM	5.848	6.700	B	0.500	2.750	4.250	1.750
10	2082B10NM	6.472	7.360	B	0.500	2.750	4.250	1.750
11	2082B11NM	7.099	8.010	B	0.500	2.750	4.250	1.750
12	2082B12NM	7.727	8.660	B	0.500	2.750	4.250	1.750
13	2082B13NM	8.357	9.310	B	0.500	2.750	4.750	2.000
14	2082B14NM	8.988	9.960	B	0.500	2.750	4.750	2.000
15	2082B15NM	9.620	10.610	B	0.500	2.750	4.750	2.000
16	2082B16NM	10.252	11.250	B	0.500	2.750	4.750	2.000
17	2082B17NM	10.885	11.900	B	0.500	2.750	4.750	2.000
18	2082B18NM	11.518	12.540	B	0.500	2.750	4.750	2.000
19	2082B19NM	12.151	13.190	B	0.500	2.750	4.750	2.000
20	2082B20NM	12.785	13.830	B	0.500	2.750	4.750	2.000
21	2082B21NM	13.419	14.470	B	0.500	2.750	4.750	2.000
22	2082B22NM	14.053	15.110	B	0.500	2.750	4.750	2.000
23	2082B23NM	14.688	15.750	B	0.500	2.750	4.750	2.000
24	2082B24NM	15.323	16.390	B	0.500	2.750	4.750	2.000
25	2082B25NM	15.958	17.030	B	0.500	2.750	4.750	2.000
26	2082B26NM	16.593	17.670	B	0.500	3.500	5.250	2.000
28	2082B28NM	17.863	18.950	B	0.500	3.500	5.250	2.000
30	2082B30NM	19.134	20.230	B	0.500	3.500	5.250	2.000

• Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Mill Duty Plastic Sprockets

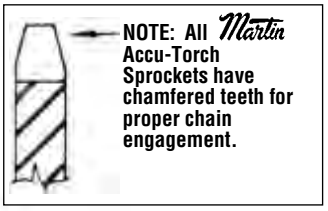


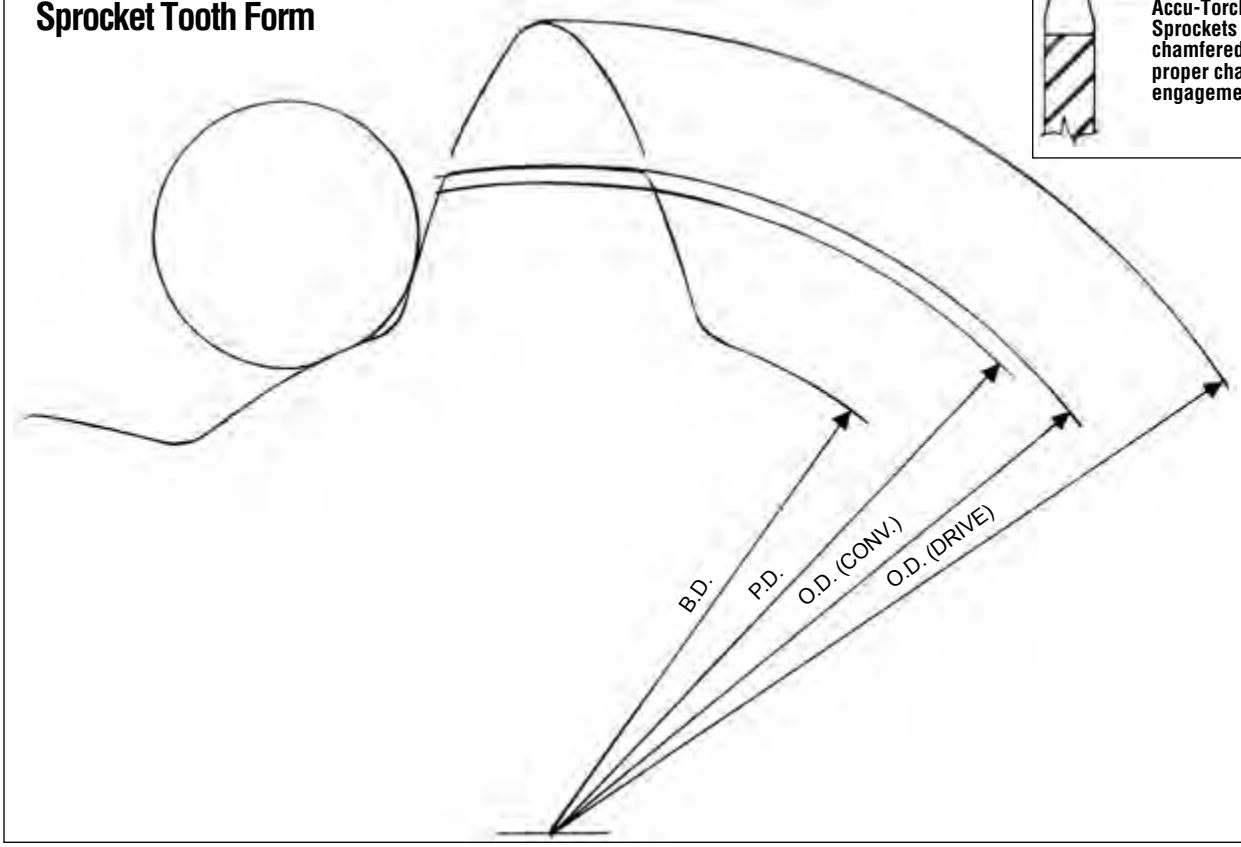
Conveyor Style Tooth for Chains:
78 — 82 — 124 — 132



Driver Style Tooth for Chains:
55 — 1030

Typical "Drive" & "Conveyor" Sprocket Tooth Form





Mill Duty Sprockets are not intended to replace cut tooth roller chain sprockets.

Mill Duty
Plastic Sprockets

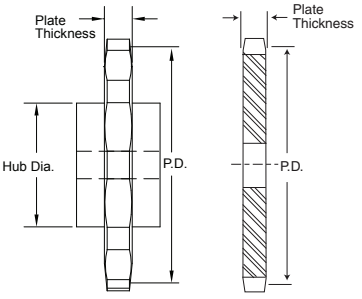
Mill Duty (also known as Agricultural Chain or AG Chain) Sprockets are machined from UHMW. These non-metallic sprockets are lighter in weight than standard steel sprockets. Non-metallic sprockets are also corrosion resistant, require little or no lubrication, and are generally more durable than traditional steel sprockets.

Martin offers Mill Duty Sprockets in all popular sizes as well as custom made-to-order sprockets. Standard sizes include 55 Series, 78 Series, 82 Series, and 132 Series. Sprockets can be manufactured in A, B, C. & D styles, as well as Split and special sprockets styles



Sprockets Available to fit Standard Chain Sizes

25	95R	WD-120	458	CS730	D963R
32	102B	H121	468	823	E963R
42	H102	SD121	WD-480	825	F963R
45	102.5	WD-122	483	830	998
S51	103	WD-123	520	844	1030
51	H104	WD-124	531	856	1036
52	W-106	130	625R	859	1113
55	S-110	132	667	F912R	1120
D60	WD-110	183	678	E922	1131
62	111SP	188	698	F922	F1222
67	111	194	CS720S	925R	2124
78	WD-112	196	720S	933	2180
W-78	WD-116	197	730	951	4850
94R	WD-119	348	A730	B963R	9250



TYPE C **TYPE A**

55 SERIES PLASTIC SPROCKETS FOR CHAINS:

C55 — CA550 — CA555 — 55 — 16D

Type C — 1.631" Pitch

PLATE THICKNESS 5/8"
ROLLER DIAMETER 23/32"

Type A

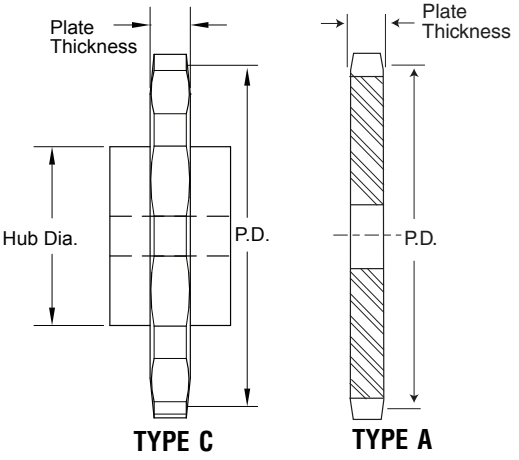
Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Bore Stock
6	55C6NM	3.260	C	0.500	1.000	1.750	1.750	55A6NM	A	0.500
7	55C7NM	3.760	C	0.500	1.000	2.000	1.750	55A7NM	A	0.500
8	55C8NM	4.260	C	0.500	1.250	2.750	2.000	55A8NM	A	0.500
9	55C9NM	4.770	C	0.500	1.500	3.000	2.625	55A9NM	A	0.500
10	55C10NM	5.280	C	0.500	2.000	3.500	2.000	55A10NM	A	0.500
11	55C11NM	5.790	C	1.000	2.500	4.000	2.625	55A11NM	A	1.000
12	55C12NM	6.300	C	1.000	2.500	4.000	2.688	55A12NM	A	1.000
13	55C13NM	6.820	C	1.000	2.500	4.000	2.688	55A13NM	A	1.000
14	55C14NM	7.330	C	1.000	2.500	4.000	2.625	55A14NM	A	1.000
15	55C15NM	7.840	C	1.000	2.500	4.000	2.625	55A15NM	A	1.000
16	55C16NM	8.360	C	1.000	2.500	4.000	2.625	55A16NM	A	1.000
17	55C17NM	8.880	C	1.000	3.000	4.500	2.625	55A17NM	A	1.000
18	55C18NM	9.390	C	1.000	3.000	4.500	2.625	55A18NM	A	1.000
19	55C19NM	9.900	C	1.000	3.000	4.500	2.625	55A19NM	A	1.000
20	55C20NM	10.430	C	1.000	3.500	5.000	3.188	55A20NM	A	1.000
21	55C21NM	10.940	C	1.000	3.500	5.000	3.125	55A21NM	A	1.000
22	55C22NM	11.430	C	1.000	3.500	5.000	3.188	55A22NM	A	1.000
23	55C23NM	11.970	C	1.000	3.500	5.000	3.188	55A23NM	A	1.000
24	55C24NM	12.500	C	1.000	3.500	5.000	3.188	55A24NM	A	1.000

Mill Duty Plastic Sprockets

Mill Duty (also known as Agricultural Chain or AG Chain) Sprockets are machined from UHMW. These non-metallic sprockets are lighter in weight than standard steel sprockets. Non-metallic sprockets are also corrosion resistant, require little or no lubrication, and are generally more durable than traditional steel sprockets.

Martin offers Mill Duty Sprockets in all popular sizes as well as custom made-to-order sprockets. Standard sizes include 55 Series, 78 Series, 82 Series, and 132 Series. Sprockets can be manufactured in A, B, C. & D styles, as well as Split and special sprockets styles





78 SERIES PLASTIC SPROCKETS FOR CHAINS:

78—H74—75—H75—H78—H78LR—(14—18 TEETH ONLY)—H78RT—H78SR—H79—88—188—S188—S78—R588—RR588—R778—RR778—988—IS880—87R—IS881—81X—IS882—433½—LXS881—LXS886—US881—LXS887—LXS882—488—XS578—SS188—C188—US278R—US882—578R—588R

Type C — 2.609" Pitch

PLATE THICKNESS 7/8"
ROLLER DIAMETER 7/8"

Type A

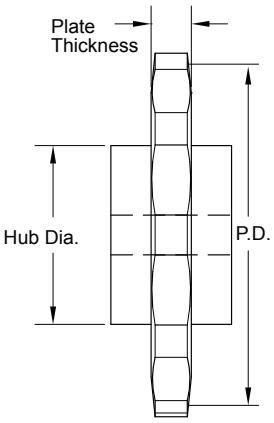
Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Bore Stock
6	78C6NM	5.220	C	0.750	1.250	3.390	2.000	78A6NM	A	0.500
7	78C7NM	6.010	C	1.000	1.250	3.500	2.000	78A7NM	A	0.500
8	78C8NM	6.820	C	1.000	2.000	4.000	3.750	78A8NM	A	0.500
9	78C9NM	7.630	C	1.000	2.000	4.000	3.750	78A9NM	A	0.500
10	78C10NM	8.440	C	1.000	2.500	4.500	3.750	78A10NM	A	0.500
11	78C11NM	9.260	C	1.000	2.500	4.500	3.750	78A11NM	A	0.500
12	78C12NM	10.080	C	1.000	3.000	5.000	3.750	78A12NM	A	0.500
13	78C13NM	10.900	C	1.000	3.000	5.000	3.750	78A13NM	A	0.500
14	78C14NM	11.720	C	1.000	3.000	5.000	3.750	78A14NM	A	0.500
15	78C15NM	12.550	C	1.000	3.500	5.500	3.750	78A15NM	A	0.500
16	78C16NM	13.370	C	1.000	3.500	5.500	3.750	78A16NM	A	0.500
17	78C17NM	14.200	C	1.000	3.500	6.000	3.750	78A17NM	A	0.500
19	78C19NM	15.850	C	1.000	3.500	6.000	3.750	78A19NM	A	0.500
21	78C21NM	17.510	C	1.000	3.500	6.000	3.750	78A21NM	A	0.500
24	78C24NM	19.990	C	1.000	3.500	7.000	3.875	78A24NM	A	0.500
25	78C25NM	20.820	C	1.000	4.000	7.000	3.875	78A25NM	A	0.500
28	78C28NM	23.300	C	1.000	4.000	7.000	3.875	78A28NM	A	0.500
30	78C30NM	24.960	C	1.000	4.000	9.000	3.875	78A30NM	A	0.500
35	78C35NM	29.110	C	1.000	5.000	9.000	4.875	78A35NM	A	0.500
40	78C40NM	33.250	C	1.000	5.000	9.000	3.750	78A40NM	A	0.500
42	78C42NM	34.910	C	1.000	5.000	9.000	4.875	78A42NM	A	0.500
46	78C46NM	38.230	C	1.000	5.000	9.000	3.750	78A46NM	A	0.500

Mill Duty
Plastic Sprockets—Split

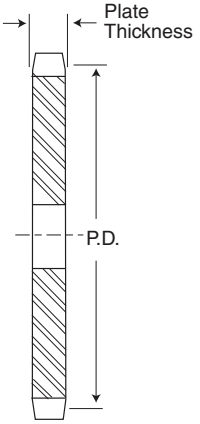
Mill Duty (also known as Agricultural Chain or AG Chain) Sprockets are machined from UHMW. These non-metallic sprockets are lighter in weight than standard steel sprockets. Non-metallic sprockets are also corrosion resistant, require little or no lubrication, and are generally more durable than traditional steel sprockets.

Martin offers Mill Duty Sprockets in all popular sizes as well as custom made-to-order sprockets. Standard sizes include 55 Series, 78 Series, 82 Series, and 132 Series. Sprockets can be manufactured in A, B, C. & D styles, as well as Split and special sprockets styles.





TYPE C



TYPE A

78 SERIES SPLIT PLASTIC SPROCKETS FOR CHAINS:

78—H74—75—H75—H78—H78LR—(14—18 TEETH ONLY)—H78RT—H78SR—H79—88—188—S188—S78—R588—RR588—R778—RR778—988—IS880—87R—IS881—81X—IS882—4331/2—LXS881—LXS886—US881—LXS887—LXS882—488—XS578—SS188—C188—US278R—US882—578R—588R

Type C — 2.069" Pitch

PLATE THICKNESS 7/8"
ROLLER DIAMETER 7/8"

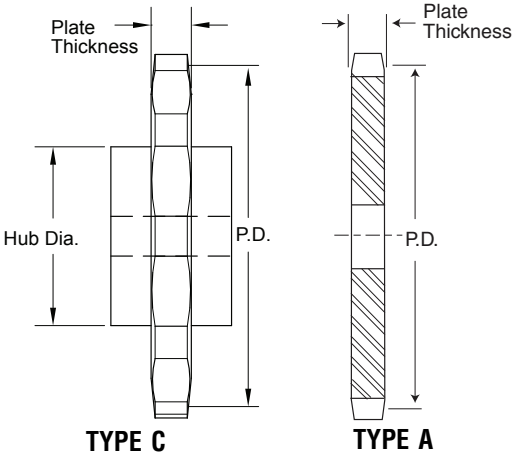
Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB
6	78C6NMS	5.220	C	1.000	1.500	3.390	2.875
7	78C7NMS	6.010	C	1.000	2.000	4.000	2.875
8	78C8NMS	6.820	C	1.000	2.000	4.000	2.875
9	78C9NMS	7.630	C	1.000	2.125	5.000	2.875
10	78C10NMS	8.440	C	1.000	2.750	5.000	2.875
11	78C11NMS	9.260	C	1.000	2.750	5.000	2.875
12	78C12NMS	10.080	C	1.000	2.750	5.000	2.875
13	78C13NMS	10.090	C	1.000	2.750	5.000	2.875
14	78C14NMS	11.720	C	1.000	2.750	5.000	2.875
15	78C15NMS	12.550	C	1.000	2.750	5.000	2.875
16	78C16NMS	13.370	C	1.000	4.000	7.000	3.750
17	78C17NMS	14.200	C	1.000	4.000	7.000	3.875
18	78C18NMS	15.020	C	1.000	4.000	7.000	3.875
19	78C19NMS	15.850	C	1.000	4.000	7.000	3.875
21	78C21NMS	17.510	C	1.750	4.500	8.875	3.875
22	78C22NMS	18.330	C	1.750	4.500	8.875	3.875
24	78C24NMS	19.990	C	1.750	4.500	8.875	3.781
25	78C25NMS	20.820	C	1.750	4.500	8.875	3.875
27	78C27NMS	22.470	C	1.750	4.500	8.875	3.875
28	78C28NMS	23.300	C	1.750	4.500	8.875	3.875
30	78C30NMS	24.960	C	1.750	4.500	8.875	3.875
34	78C34NMS	28.280	C	1.750	4.500	8.875	3.875
40	78C40NMS	33.250	C	1.750	4.500	8.875	3.875
45	78C45NMS	37.400	C	1.750	6.500	12.000	3.875

Mill Duty Plastic Sprockets— Chain Saver

Mill Duty (also known as Agricultural Chain or AG Chain) Sprockets are machined from UHMW. These non-metallic sprockets are lighter in weight than standard steel sprockets. Non-metallic sprockets are also corrosion resistant, require little or no lubrication, and are generally more durable than traditional steel sprockets.

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78 CHAIN-SAVER PLASTIC SPROCKETS FOR CHAINS:

78—H74—75—H75—H78—H78LR—(14—18 TEETH ONLY)—H78RT—H78SR—H79—88—188—S188—S78 R588—RR588—R778—RR778—988—IS880—87R—IS881—81X—IS882—4331/2—LXS881—LXS886—US881—LXS887—LXS882—488—XS578—SS188—C188—US278R—US882—578R—588R

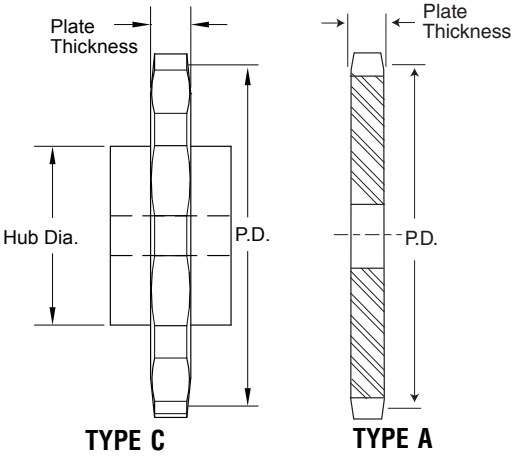
Type C — 2.609" Pitch

PLATE THICKNESS 7/8"
ROLLER DIAMETER 7/8"

Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB
4	78CS4NM	3.690	C	0.500	0.750	1.480	2.000
5	78CS5NM	4.440	C	0.750	1.000	2.460	2.000
6	78CS6NM	5.220	C	0.750	1.250	3.390	2.000
7	78CS7NM	6.010	C	0.750	1.750	4.290	2.000
8	78CS8NM	6.820	C	0.750	2.500	5.170	2.000
9	78CS9NM	7.630	C	0.750	3.000	6.040	2.000

Mill Duty
Plastic Sprockets





82 SERIES PLASTIC SPROCKETS FOR CHAINS:

H82 — 131 — 527R — 4103 — WH82 — S131 — 527RX — C131 — WR82 — WS62 — C9103 — 382 — 103 — SS131 —6131

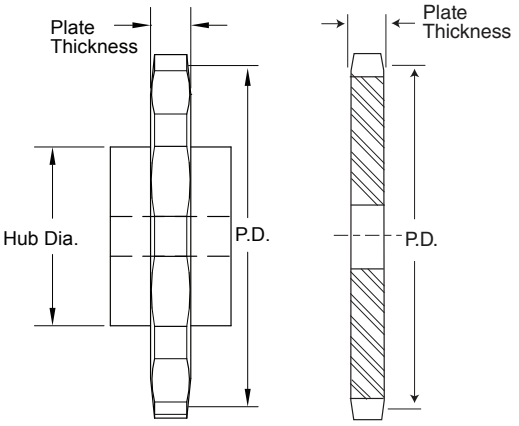
Type C — 3.075" Pitch

PLATE THICKNESS 1"
ROLLER DIAMETER 1 7/32"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Bore Stock
7	82C7NM	7.090	C	1.000	2.500	4.000	3.750	82A7NM	A	1.000
8	82C8NM	8.040	C	1.000	3.000	4.500	3.750	82A8NM	A	1.000
9	82C9NM	8.990	C	1.000	3.000	4.500	3.750	82A9NM	A	1.000
10	82C10NM	9.950	C	1.000	3.000	4.500	3.750	82A10NM	A	1.000
11	82C11NM	10.910	C	1.000	3.500	5.000	3.750	82A11NM	A	1.000
12	82C12NM	11.880	C	1.000	3.500	5.000	3.750	82A12NM	A	1.000
13	82C13NM	12.850	C	1.000	4.000	5.000	3.750	82A13NM	A	1.000
14	82C14NM	13.820	C	1.000	4.000	5.500	3.750	82A14NM	A	1.000
15	82C15NM	14.790	C	1.000	4.000	6.000	3.750	82A15NM	A	1.000
16	82C16NM	15.760	C	1.000	4.000	6.000	3.750	82A16NM	A	1.000
17	82C17NM	16.730	C	1.000	4.000	6.000	3.750	82A17NM	A	1.000
18	82C18NM	17.710	C	1.000	4.000	6.000	3.750	82A18NM	A	1.000

Mill Duty Plastic Sprockets





1030 SERIES PLASTIC SPROCKETS FOR CHAINS:

1030—CHAMPIONNO.3—R1033—R1035—1037—1539—SS40—LXS1031—API3—LXS1032—SS40Hyp—IS1030—IS1031—IS1032—IS1037—US1031—1190—SXX—1190R—US1032

Type C — 3.075" Pitch

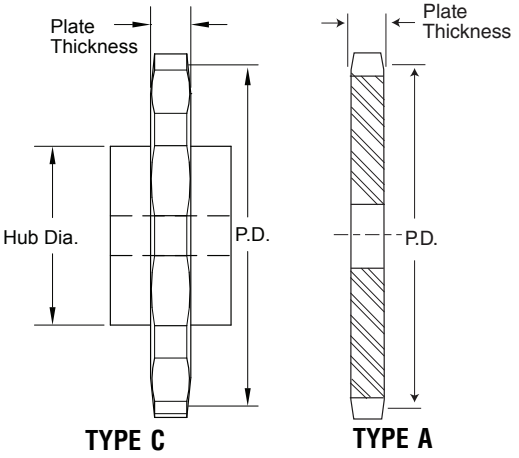
PLATE THICKNESS 1 1/4"
ROLLER DIAMETER 1 1/4"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Bore Stock
8	1030C8NM	8.040	C	1.000	3.000	4.500	3.750	1030A8NM	A	1.000
9	1030C9NM	8.990	C	1.000	3.000	4.500	3.750	1030A9NM	A	1.000
10	1030C10NM	9.950	C	1.000	3.000	4.500	3.750	1030A10NM	A	1.000
11	1030C11NM	10.910	C	1.000	3.500	5.000	3.750	1030A11NM	A	1.000
12	1030C12NM	11.880	C	1.000	3.500	5.000	3.750	1030A12NM	A	1.000
13	1030C13NM	12.850	C	1.000	4.000	5.500	3.750	1030A13NM	A	1.000
15	1030C15NM	14.790	C	1.000	4.000	6.000	3.750	1030A15NM	A	1.000
17	1030C17NM	16.730	C	1.000	4.000	6.000	3.750	1030A17NM	A	1.000
19	1030C19NM	18.680	C	1.000	4.000	6.000	3.750	1030A19NM	A	1.000
21	1030C21NM	20.630	C	1.000	5.000	7.000	3.750	1030A21NM	A	1.000
24	1030C24NM	23.560	C	1.000	5.000	7.000	3.750	1030A24NM	A	1.000
25	1030C25NM	24.530	C	1.000	5.000	7.000	3.750	1030A25NM	A	1.000
28	1030C28NM	27.460	C	1.000	6.000	8.000	3.750	1030A28NM	A	1.000
30	1030C30NM	29.420	C	1.000	6.000	8.000	3.750	1030A30NM	A	1.000
35	1030C35NM	34.300	C	1.000	6.000	8.000	3.750	1030A35NM	A	1.000
40	1030C40NM	39.190	C	1.000	6.000	9.000	3.750	1030A40NM	A	1.000

Mill Duty
Plastic Sprockets





124 SERIES PLASTIC SPROCKETS FOR CHAINS:

H124—W124—WS124—WR124—WH124

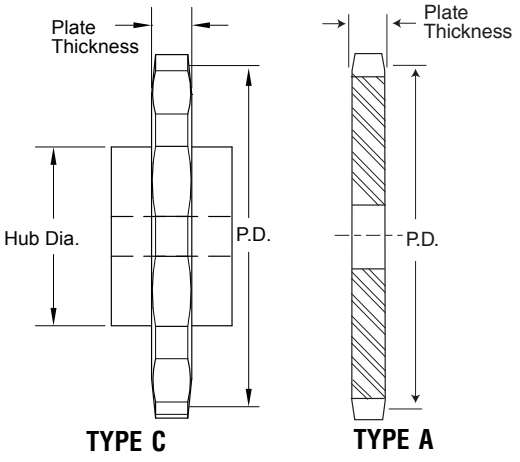
Type C — 4.000" Pitch

PLATE THICKNESS 1 ½"
ROLLER DIAMETER 1 ½"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Bore Stock
6	124C6NM	8.000	C	1.000	3.000	4.500	3.750	124A6NM	A	1.000
7	124C7NM	9.220	C	1.000	3.000	5.750	4.500	124A7NM	A	1.000
8	124C8NM	10.450	C	1.000	3.500	5.000	4.000	124A8NM	A	1.000
9	124C9NM	11.700	C	1.000	3.500	5.750	4.500	124A9NM	A	1.000
10	124C10NM	12.940	C	1.000	4.000	5.750	4.500	124A10NM	A	1.000
11	124C11NM	14.200	C	1.000	4.000	6.000	4.500	124A11NM	A	1.000
12	124C12NM	15.450	C	1.000	4.000	6.000	4.500	124A12NM	A	1.000
13	124C13NM	16.710	C	1.000	4.000	6.000	4.500	124A13NM	A	1.000
14	124C14NM	17.980	C	1.000	4.000	7.000	4.500	124A14NM	A	1.000
15	124C15NM	19.240	C	1.000	4.000	6.000	4.500	124A15NM	A	1.000
16	124C16NM	20.500	C	1.000	5.000	7.000	4.500	124A16NM	A	1.000
18	82C18NM	17.710	C	1.000	4.000	6.000	3.750	82A18NM	A	1.000

Mill Duty Plastic Sprockets





132 SERIES PLASTIC SPROCKETS FOR CHAINS:

C132—A132—A132WS—WS132—C132M—C132W—SX150—SXA150—150X—6150—W157—WH157—WR157

Type C — 6.050" Pitch

PLATE THICKNESS 2 3/4"
ROLLER DIAMETER 1 23/32"

Type A

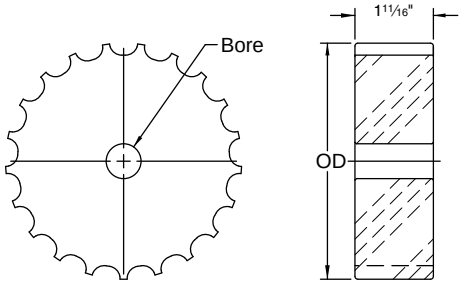
Number of Teeth	Catalog Number	Pitch Diameter	Type	Bore Stock	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Bore Stock
6	132C6NM	12.100	C	1.000	3.000	6.500	6.000	132A6NM	A	1.000
7	132C7NM	13.940	C	1.000	3.000	6.500	6.000	132A7NM	A	1.000
8	132C8NM	15.810	C	1.000	3.000	7.000	5.750	132A8NM	A	1.000
9	132C9NM	17.690	C	1.000	3.000	9.000	6.750	132A9NM	A	1.000
10	132C10NM	19.580	C	1.000	3.750	9.000	6.750	132A10NM	A	1.000
11	132C11NM	21.470	C	1.000	3.750	9.000	6.750	132A11NM	A	1.000
12	132C12NM	23.380	C	1.000	3.750	9.000	6.750	132A12NM	A	1.000

Plastic Flat-Top Conveyor Sprockets

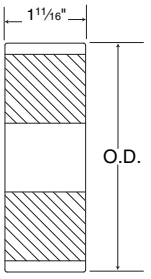


Martin manufacturers Flat Top Conveyor Sprockets from USDA / FDA grade UHMW and thermoplastics. These sprockets are completely interchangeable with cast, steel, or other types of plastic sprockets. Martin's Non-metallic Flat Top Conveyor Sprockets are lightweight, chemical resistant, and require no lubrication. They are designed for use with both steel and plastic chain. Most popular sizes and styles are available. For special applications, Martin offers quick turnaround times on custom orders.

Plastic Flat-Top Conveyor Sprockets



Series 815 Sprocket



Solid Face

Series 815 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (inches)	
	Actual	Effective			Stock	Max
815A19NM	19	9.5	4.620	4.610	0.750	1.250
815A20NM	20	10.0	4.854	4.860	0.750	1.250
815A21NM	21	10.5	5.089	5.120	0.750	1.750
815A22NM	22	11.0	5.324	5.350	0.750	1.750
815A23NM	23	11.5	5.560	5.590	0.750	1.750
815A24NM	24	12.0	5.796	5.830	0.750	2.000
815A25NM	25	12.5	6.032	6.070	0.750	2.000
815A27NM	27	13.5	6.504	6.560	0.750	2.000
815A29NM	29	14.5	6.978	7.050	0.750	2.500
815A31NM	31	15.5	7.452	7.530	0.750	2.500
815A41NM	41	20.5	9.826	9.930	0.750	2.500

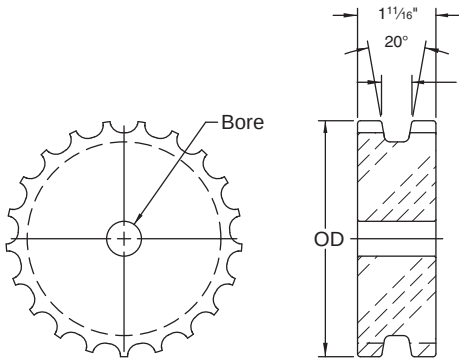
Series 815 — Split Thermoplastic

Catalog Number	No. Teeth		Pitch Diameter†	Outside Diameter†	Bore†		Weight
	Actual	Effective			Stock	Maximum	
QRS815A21P	21	10½	5.089 (129.26)	5.12 (130.0)	¾ (19.1)	1½ (38.1)	.94 (.43)
QRS815A23P	23	11½	5.560 (141.22)	5.59 (142.0)	¾ (19.1)	1½ (38.1)	1.00 (.45)
QRS815A25P	25	12½	6.032 (153.21)	6.07 (154.2)	¾ (19.1)	1½ (38.1)	1.10 (.50)
QRS815A27P	27	13½	6.504 (165.20)	6.56 (166.6)	¾ (19.1)	1½ (38.1)	1.25 (.57)

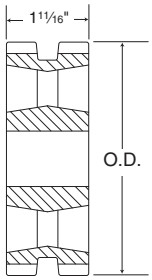
Thermoplastic temperature operating range –20°F to +300°F

• NOTE: Supplied with 5/16 - 18 plated setscrew @ 90° to split.

Plastic Flat-Top Conveyor Sprockets



Series 820 Sprocket



Grooved Face

Series 820 Sprocket — UHMW

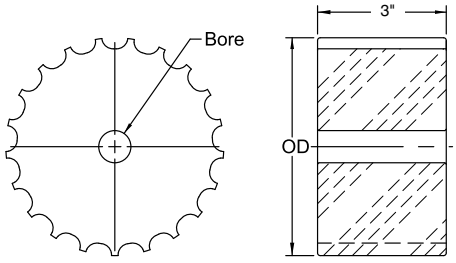
Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (inches)	
	Actual	Effective			Stock	Max
820A19NM	19	9.5	4.620	4.610	0.750	1.250
820A20NM	20	10.0	4.854	4.860	0.750	1.250
820A21NM	21	10.5	5.089	5.120	0.750	1.750
820A22NM	22	11.0	5.324	5.350	0.750	1.750
820A23NM	23	11.5	5.560	5.590	0.750	1.750
820A24NM	24	12.0	5.796	5.830	0.750	2.000
820A25NM	25	12.5	6.032	6.070	0.750	2.000
820A27NM	27	13.5	6.504	6.560	0.750	2.000
820A29NM	29	14.5	6.978	7.050	0.750	2.500
820A31NM	31	15.5	7.452	7.530	0.750	2.500
820A41NM	41	20.5	9.826	9.930	0.750	2.500

Series 820 — Split Thermoplastic

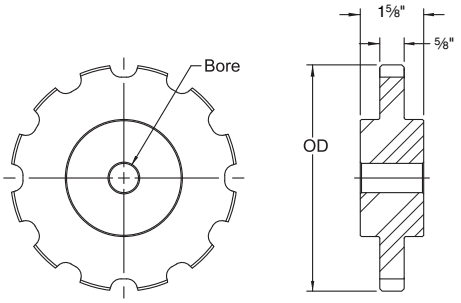
Catalog Number	No. Teeth		Pitch Diameter†	Outside Diameter†	Bore†		Weight
	Actual	Effective			Stock	Maximum	
QRS820A21P	21	10½	5.089 (129.26)	5.12 (130.0)	¾ (19.1)	1½ (38.1)	.94 (.43)
QRS820A23P	23	11½	5.560 (141.22)	5.59 (142.0)	¾ (19.1)	1½ (38.1)	1.00 (.45)
QRS820A25P	25	12½	6.032 (153.21)	6.07 (154.2)	¾ (19.1)	1½ (38.1)	1.10 (.50)
QRS820A27P	27	13½	6.504 (165.20)	6.56 (166.6)	¾ (19.1)	1½ (38.1)	1.25 (.57)

Thermoplastic temperature operating range –20°F to +300°F

• NOTE: Supplied with ⅝- 18 plated setscrew @ 90° to split.



Series 821 Sprocket



Series 880 Sprocket

Series 821 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (inches)	
	Actual	Effective			Stock	Max
821A21NM	21	10.5	5.089	5.120	0.750	1.750
821A23NM	23	11.5	5.560	5.590	0.750	1.750
821A25NM	25	12.5	6.032	6.070	0.750	2.000
821A27NM	27	13.5	6.504	6.560	0.750	2.000
821A29NM	29	14.5	6.978	7.050	0.750	2.500

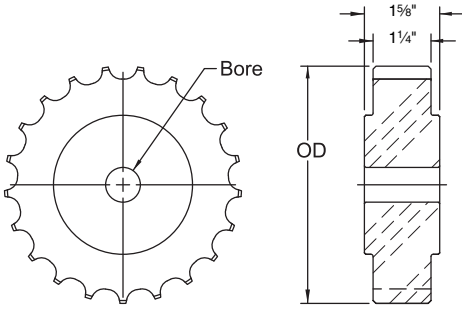
Series 880 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (inches)	
	Actual	Effective			Stock	Max
880C9NM	9	9	4.386	4.330	0.750	1.750
880C10NM	10	10	4.854	4.820	0.750	1.750
880C11NM	11	11	5.325	5.310	0.750	1.750
880C12NM	12	12	5.796	5.800	0.750	1.750
880C15NM	15	15	7.215	7.260	0.750	1.750

Natural Nylon Sprockets

Series 881 Sprocket — UHMW

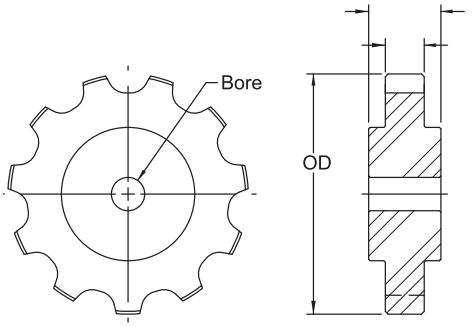
Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (inches)	
	Actual	Effective			Stock	Max
881C21NM	21	10.5	5.089	5.124	0.750	1.750
881C23NM	23	11.5	5.560	5.590	0.750	1.750
881C25NM	25	12.5	6.032	6.070	0.750	1.750



Series 881 Sprocket

Series 882 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (inches)	
	Actual	Effective			Stock	Max
882C9NM	9	9	4.386	4.430	0.750	1.750
882C10NM	10	10	4.854	4.920	0.750	1.750
882C11NM	11	11	5.325	5.410	0.750	1.750
882C12NM	12	12	5.796	5.900	0.750	1.750
882C15NM*	15	15	7.215	7.360	0.750	1.750



Series 882 Sprocket

Plastic Gears Introduction



Martin offers “B” Style Nylon Spur Gears. Other styles and materials are available as Made-to-Order. Spur gears are available with stock bore, idler bore, or finished bore with keyway and setscrews. Standard material of construction is UHMW, Nylon and Acetal. Gear rack is supplied in nominal 48" lengths, however other lengths can be supplied upon request.

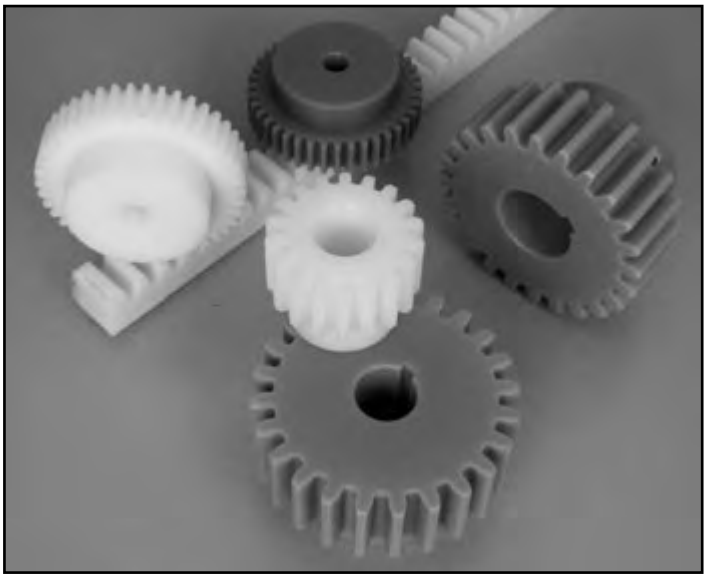
Plastic gears have been used successfully without lubrication in many of todays open gear applications. Many will work lubrication free in demanding applications where steel gears will rust or require continuous maintenance.

One key issue in selecting a plastic gear is proper sizing. Plastics have different properties than metals and are sensitive to changing operating conditions. In addition to load data, attention to drive geometry, environmental and operating conditions and plastic material properties is critical.

Martin’s dedicated sales staff has the experience and knowledge to help you identify and specify the proper gear for your application.

Benefits of Plastic:

- Cost Effective
- Noise Reduction
- Ability to Absorb Shock and Vibration
- Relatively Low Coefficient of Friction
- Corrosion Resistance - elimination of plating, or protective coatings.
- Tolerances often less critical than metal due to greater resilience.



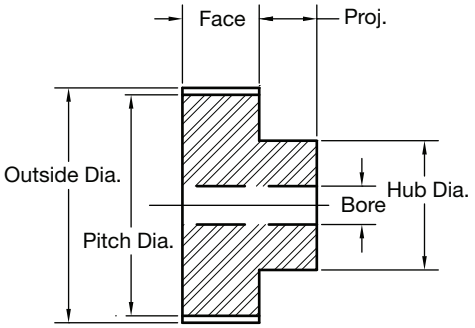
4 DP
2" Face

Nylon Stock Spur Gears
14½° Pressure Angle

Martin

Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws





Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM411	3.000	3.500	B	0.750	1.250	2.250	0.875
12	NM412	3.000	3.500	B	0.750	1.250	2.250	0.875
13	NM413	3.250	3.750	B	0.750	1.250	2.250	0.875
14	NM414	3.500	4.000	B	0.750	1.625	2.750	0.875
15	NM415	3.750	4.250	B	0.750	1.750	3.000	0.875
16	NM416	4.000	4.500	B	0.750	1.750	3.250	0.875
17	NM417	4.250	4.750	B	0.750	2.000	3.500	0.875
18	NM418	4.500	5.000	B	0.750	2.000	3.500	0.875
19	NM419	4.750	5.250	B	0.750	2.000	3.500	0.875
20	NM420	5.000	5.500	B	0.750	2.125	3.750	0.875
21	NM421	5.250	5.750	B	0.750	2.375	4.000	0.875
22	NM422	5.500	6.000	B	0.750	2.625	4.500	0.875
24	NM424	6.000	6.500	B	0.750	2.875	4.500	1.500
26	NM426	6.500	7.000	B	0.750	2.875	4.500	1.500
28	NM428	7.000	7.500	B	0.750	2.875	4.500	1.500
30	NM430	7.500	8.000	B	0.750	2.875	4.500	1.500
32	NM432	8.000	8.500	B	0.750	2.875	4.500	1.500
36	NM436	9.000	9.500	B	0.750	2.875	4.500	1.500
40	NM440	10.000	10.500	B	0.750	3.375	5.125	1.500
42	NM442	10.500	11.000	B	0.750	3.375	5.125	1.500
44	NM444	11.000	11.500	B	0.750	3.375	5.125	1.500
48	NM448	12.000	12.500	B	0.750	3.375	5.125	1.500
54	NM454	13.500	14.000	B	0.750	3.375	5.000	1.500
56	NM456	14.000	14.500	B	0.750	3.375	5.000	1.500
60	NM460	15.000	15.500	B	0.750	3.375	5.000	1.500
64	NM464	16.000	16.500	B	0.750	3.375	5.000	1.500
72	NM472	18.000	18.500	B	0.750	3.375	5.500	1.500
80	NM480	20.000	20.500	B	0.750	3.375	5.500	1.500
84	NM484	21.000	21.500	B	0.750	3.375	5.500	1.500
88	NM488	22.000	22.500	B	0.750	3.375	6.125	1.500
96	NM496	24.000	24.500	B	0.750	3.375	6.125	1.500

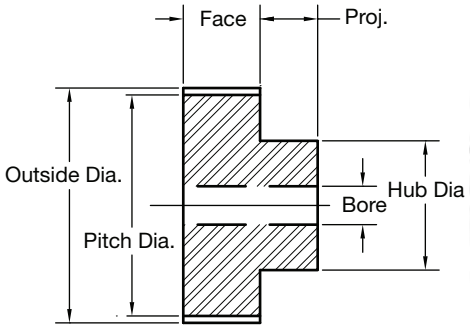
* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

Nylon Stock Spur Gears

14½° Pressure Angle

5 DP
1¾" Face





Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws

Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	5 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM511	2.400	2.800	B	0.750	1.000	1.781	0.875
12	NM512	2.400	2.800	B	0.750	1.000	1.781	0.875
13	NM513	2.600	3.000	B	0.750	1.000	2.000	0.875
14	NM514	2.800	3.200	B	0.750	1.000	2.188	0.875
15	NM515	3.000	3.400	B	0.750	1.000	2.375	0.875
16	NM516	3.200	3.600	B	0.750	1.000	2.594	0.875
17	NM517	3.400	3.800	B	0.750	1.500	2.875	0.875
18	NM518	3.600	4.000	B	0.750	1.750	3.000	0.875
19	NM519	3.800	4.200	B	0.750	2.000	3.250	0.875
20	NM520	4.000	4.400	B	0.750	2.000	3.375	0.875
21	NM521	4.200	4.600	B	0.750	2.000	3.375	0.875
22	NM522	4.400	4.800	B	0.750	2.000	3.375	0.875
23	NM523	4.600	5.000	B	0.750	2.000	3.375	0.875
24	NM524	4.800	5.200	B	0.750	2.000	3.750	0.875
25	NM525	5.000	5.400	B	0.750	2.000	3.750	0.875
26	NM526	5.200	5.600	B	0.750	2.000	3.750	0.875
28	NM528	5.600	6.000	B	0.750	2.000	3.750	0.875
30	NM530	6.000	6.400	B	0.750	2.000	3.750	0.875
35	NM535	7.000	7.400	B	0.750	2.500	3.750	1.250
40	NM540	8.000	8.400	B	0.750	2.500	3.750	1.250
45	NM545	9.000	9.400	B	0.750	2.500	3.750	1.250
50	NM550	10.000	10.400	B	0.750	2.500	3.750	1.250
55	NM555	11.000	11.400	B	0.750	3.000	3.750	1.250
60	NM460	12.000	12.400	B	0.750	3.000	3.750	1.250
70	NM570	14.000	14.400	B	0.750	3.000	5.000	1.500
80	NM580	16.000	16.400	B	0.750	3.000	5.000	1.500
90	NM590	18.000	18.400	B	0.750	3.500	5.000	1.500

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

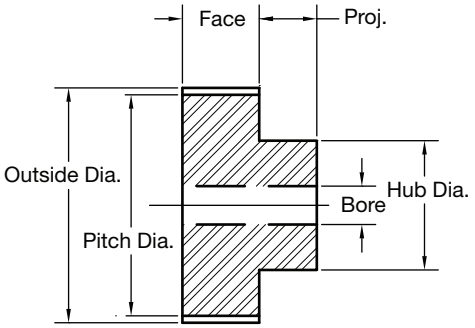
6 DP
1½" Face

Nylon Stock Spur Gears
14½° Pressure Angle

Martin

Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws





Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	6 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM611	2.000	2.333	B	0.500	0.750	1.500	0.875
12	NM612	2.000	2.333	B	0.500	0.750	1.500	0.875
14	NM614	2.333	2.666	B	0.500	0.875	1.813	0.875
15	NM615	2.500	2.833	B	0.750	1.125	2.000	0.875
16	NM616	2.666	3.000	B	0.750	1.250	2.156	0.875
18	NM618	3.000	3.333	B	0.750	1.375	2.500	0.875
20	NM620	3.333	3.666	B	0.750	1.625	2.844	0.875
21	NM621	3.500	3.833	B	0.750	1.750	3.000	0.875
22	NM622	3.666	4.000	B	0.750	1.750	3.000	0.875
24	NM624	4.000	4.333	B	0.750	1.750	3.000	1.000
27	NM627	4.500	4.833	B	0.750	1.750	3.000	1.000
28	NM628	4.666	5.000	B	0.750	1.750	3.000	1.000
30	NM630	5.000	5.333	B	0.750	1.750	3.125	1.000
32	NM632	5.333	5.666	B	0.750	1.750	3.125	1.000
33	NM633	5.500	5.833	B	0.750	1.750	3.250	1.000
36	NM636	6.000	6.333	B	0.750	2.375	4.000	1.000
39	NM639	6.500	6.833	B	0.750	2.375	4.000	1.000
40	NM640	6.666	7.000	B	0.750	2.375	4.000	1.000
42	NM642	7.000	7.333	B	0.750	2.375	4.000	1.000
45	NM645	7.500	7.833	B	0.750	2.375	4.000	1.000
48	NM648	8.000	8.333	B	0.750	2.500	4.125	1.000
52	NM652	8.666	9.000	B	0.750	2.625	4.250	1.000
54	NM654	9.000	9.333	B	0.750	2.750	4.375	1.000
58	NM658	9.666	10.000	B	0.750	2.750	4.375	1.000
60	NM660	10.000	10.333	B	0.750	2.750	4.375	1.250
64	NM664	10.666	11.000	B	0.750	2.750	4.375	1.250
66	NM666	11.000	11.333	B	0.750	2.750	4.375	1.250
72	NM672	12.000	12.333	B	0.750	2.750	4.375	1.250
84	NM684	14.000	14.333	B	0.750	2.875	4.500	1.250
96	NM696	16.000	16.333	B	0.750	3.375	5.125	1.250

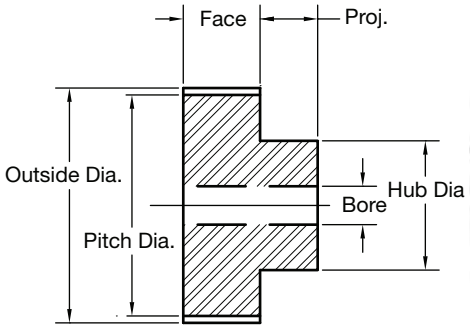
* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

Nylon Stock Spur Gears

14½° Pressure Angle

8 DP
1¼" Face





Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws

Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	8 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM811	1.500	1.750	B	0.500	0.750	1.125	0.750
12	NM812	1.500	1.750	B	0.500	0.750	1.125	0.750
13	NM813	1.625	1.875	B	0.500	0.750	1.250	0.750
14	NM814	1.750	2.000	B	0.500	0.625	1.375	0.750
15	NM815	1.875	2.125	B	0.500	0.750	1.500	0.750
16	NM816	2.000	2.250	B	0.500	0.875	1.625	0.750
17	NM817	2.125	2.375	B	0.500	0.875	1.750	0.750
18	NM818	2.250	2.500	B	0.750	1.000	1.875	0.750
19	NM819	2.375	2.625	B	0.750	1.125	2.000	0.750
20	NM820	2.500	2.750	B	0.750	1.125	2.125	0.750
21	NM821	2.625	2.875	B	0.750	1.250	2.250	0.750
22	NM822	2.750	3.000	B	0.750	1.250	2.375	0.750
24	NM824	3.000	3.250	B	0.750	1.500	2.625	1.000
26	NM826	3.250	3.500	B	0.750	1.500	2.625	1.000
28	NM828	3.500	3.750	B	0.750	1.625	2.750	1.000
30	NM830	3.750	4.000	B	0.750	1.750	2.875	1.000
32	NM832	4.000	4.250	B	0.750	1.750	3.000	1.000
36	NM836	4.500	4.750	B	0.750	1.750	3.000	1.000
40	NM840	5.000	5.250	B	0.750	1.750	3.000	1.000
42	NM842	5.250	5.500	B	0.750	1.750	3.000	1.000
44	NM844	5.500	5.750	B	0.750	1.750	3.000	1.000
48	NM848	6.000	6.250	B	0.750	1.750	3.000	1.000

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

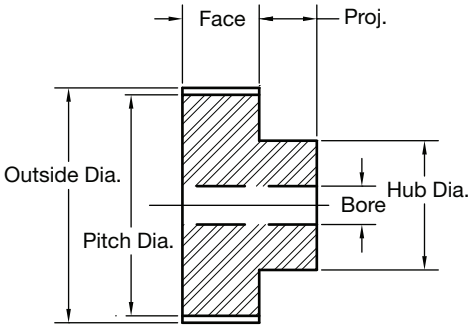
10 DP
1" Face

Nylon Stock Spur Gears
14½° Pressure Angle

Martin

Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws





Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	10 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM1011	1.200	1.400	B	0.250	0.500	0.938	0.625
12	NM1012	1.200	1.400	B	0.250	0.500	0.938	0.625
13	NM1013	1.300	1.500	B	0.250	0.500	1.000	0.625
14	NM1014	1.400	1.600	B	0.500	0.500	1.125	0.625
15	NM1015	1.500	1.700	B	0.500	0.750	1.219	0.625
16	NM1016	1.600	1.800	B	0.500	0.750	1.313	0.625
17	NM1017	1.700	1.900	B	0.500	0.750	1.375	0.625
18	NM1018	1.800	2.000	B	0.500	0.750	1.531	0.625
19	NM1019	1.900	2.100	B	0.500	0.750	1.563	0.625
20	NM1020	2.000	2.200	B	0.500	0.875	1.719	0.625
21	NM1021	2.100	2.300	B	0.500	0.875	1.750	0.625
22	NM1022	2.200	2.400	B	0.750	1.000	1.875	0.625
24	NM1024	2.400	2.600	B	0.750	1.125	2.125	0.625
25	NM1025	2.500	2.700	B	0.750	1.250	2.219	0.625
26	NM1026	2.600	2.800	B	0.750	1.250	2.125	0.625
28	NM1028	2.800	3.000	B	0.750	1.250	2.125	0.875
30	NM1030	3.000	3.200	B	0.750	1.250	2.125	0.875
32	NM1032	3.200	3.400	B	0.750	1.250	2.125	0.875
35	NM1035	3.500	3.700	B	0.750	1.250	2.250	0.875
36	NM1036	3.600	3.800	B	0.750	1.250	2.250	0.875
38	NM1038	3.800	4.000	B	0.750	1.250	2.250	0.875
40	NM1040	4.000	4.200	B	0.750	1.250	2.250	0.875
42	NM1042	4.200	4.400	B	0.750	1.250	2.250	0.875
45	NM1045	4.500	4.700	B	0.750	1.375	2.500	0.875
48	NM1048	4.800	5.000	B	0.750	1.375	2.500	0.875
50	NM1050	5.000	5.200	B	0.750	1.375	2.500	0.875
54	NM1054	5.400	5.600	B	0.750	1.375	2.500	0.875
55	NM1055	5.500	5.700	B	0.750	1.375	2.500	0.875
60	NM1060	6.000	6.200	B	0.750	1.375	2.500	0.875

* Recommended Maximum Bore With Keyway and Setscrew.

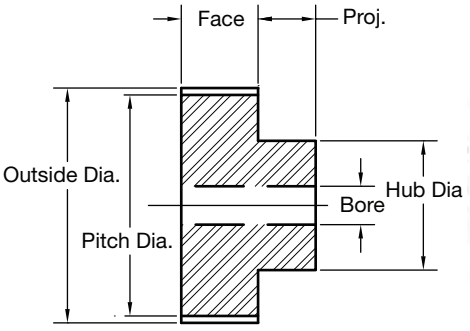
14½° P.A. Gears Will Not Operate With 20° P.A.

Nylon Stock Spur Gears

14½° Pressure Angle

12 DP

¾" Face





Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws

Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	12 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM1211	1.000	1.167	B	0.250	0.500	0.750	0.500
12	NM1212	1.000	1.167	B	0.250	0.500	0.750	0.500
13	NM1213	1.083	1.250	B	0.250	0.500	0.813	0.500
14	NM1214	1.167	1.333	B	0.250	0.500	0.906	0.500
15	NM1215	1.250	1.417	B	0.250	0.500	1.000	0.500
16	NM1216	1.333	1.500	B	0.500	0.500	1.063	0.500
17	NM1217	1.413	1.580	B	0.500	0.500	1.125	0.500
18	NM1218	1.500	1.667	B	0.500	0.500	1.250	0.500
19	NM1219	1.583	1.750	B	0.500	0.750	1.313	0.500
20	NM1220	1.667	1.833	B	0.500	0.875	1.813	0.500
21	NM1221	1.750	1.917	B	0.500	0.750	1.500	0.500
22	NM1222	1.833	2.000	B	0.500	0.875	1.563	0.500
23	NM1223	1.917	2.083	B	0.500	0.875	1.625	0.500
24	NM1224	2.000	2.166	B	0.500	0.875	1.750	0.500
25	NM1225	2.083	2.250	B	0.500	0.875	1.844	0.500
26	NM1226	2.167	2.333	B	0.500	1.000	1.938	0.625
28	NM1228	2.333	2.500	B	0.500	1.250	2.063	0.625
30	NM1230	2.500	2.667	B	0.500	1.250	2.250	0.625
32	NM1232	2.667	2.833	B	0.500	1.250	2.250	0.625
34	NM1234	2.833	3.000	B	0.500	1.250	2.250	0.625
36	NM1236	3.000	3.167	B	0.500	1.375	2.500	0.625
39	NM1239	3.167	3.333	B	0.500	1.375	2.500	0.625
40	NM1240	3.333	3.500	B	0.500	1.375	2.500	0.625
42	NM1242	3.500	3.666	B	0.500	1.375	2.500	0.625
44	NM1244	3.667	3.833	B	0.500	1.375	2.500	0.625
48	NM1248	4.000	4.166	B	0.500	1.375	2.500	0.750
54	NM1254	4.500	4.666	B	0.750	1.625	2.750	0.750
56	NM1256	4.667	4.833	B	0.750	1.625	2.750	0.750
60	NM1260	5.000	5.166	B	0.750	1.625	2.750	0.750
64	NM1264	5.333	5.500	B	0.750	1.625	2.750	0.750
66	NM1266	5.500	5.666	B	0.750	1.625	2.750	0.750
72	NM1272	6.000	6.166	B	0.750	1.625	2.750	0.750

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

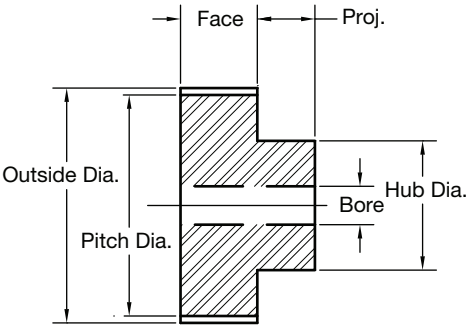
16 DP
½" Face

Nylon Stock Spur Gears
14½° Pressure Angle

Martin

Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws





Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	16 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM1611	0.750	0.875	B	0.250	0.375	0.563	0.438
12	NM1612	0.750	0.875	B	0.250	0.375	0.563	0.438
13	NM1613	0.812	0.937	B	0.250	0.375	0.625	0.438
14	NM1614	0.875	1.000	B	0.250	0.375	0.688	0.438
15	NM1615	0.937	1.062	B	0.250	0.500	0.750	0.438
16	NM1616	1.000	1.125	B	0.250	0.500	0.813	0.438
17	NM1617	1.062	1.187	B	0.250	0.500	0.875	0.438
18	NM1618	1.125	1.250	B	0.250	0.500	0.938	0.438
19	NM1619	1.187	1.312	B	0.250	0.500	1.000	0.438
20	NM1620	1.250	1.375	B	0.500	0.500	1.063	0.438
21	NM1621	1.312	1.438	B	0.500	0.500	1.125	0.438
22	NM1622	1.375	1.500	B	0.500	0.500	1.188	0.438
23	NM1623	1.437	1.562	B	0.500	0.500	1.250	0.438
24	NM1624	1.500	1.625	B	0.500	0.625	1.313	0.438
26	NM1626	1.625	1.750	B	0.500	0.750	1.438	0.438
28	NM1628	1.750	1.875	B	0.500	0.750	1.500	0.500
30	NM1630	1.875	2.000	B	0.500	0.875	1.625	0.500
32	NM1632	2.000	2.125	B	0.500	1.000	1.750	0.500
34	NM1634	2.125	2.250	B	0.500	1.125	1.875	0.500
36	NM1636	2.250	2.375	B	0.500	1.125	2.000	0.500
38	NM1638	2.375	2.500	B	0.500	1.125	2.000	0.500
40	NM1640	2.500	2.626	B	0.750	1.125	2.000	0.500
44	NM1644	2.750	2.875	B	0.500	1.125	2.000	0.500
48	NM1648	3.000	3.125	B	0.500	1.125	2.000	0.500
52	NM1652	3.250	3.375	B	0.500	1.125	2.000	0.500
54	NM1654	3.375	3.500	B	0.500	1.125	2.000	0.500
56	NM1656	3.500	3.625	B	0.500	1.125	2.000	0.500
60	NM1660	3.750	3.875	B	0.500	1.125	2.000	0.500
64	NM1664	4.000	4.125	B	0.500	1.125	2.000	0.625
68	NM1668	4.250	4.375	B	0.500	1.250	2.250	0.625
72	NM1672	4.500	4.625	B	0.500	1.250	2.250	0.625
80	NM1680	5.000	5.125	B	0.500	1.250	2.250	0.625
84	NM1684	5.250	5.375	B	0.500	1.250	2.250	0.625
88	NM1688.	5.500	5.625	B	0.500	1.250	2.250	0.625
96	NM1696	6.000	6.125	B	0.500	1.250	2.250	0.625

* Recommended Maximum Bore With Keyway and Setscrew.

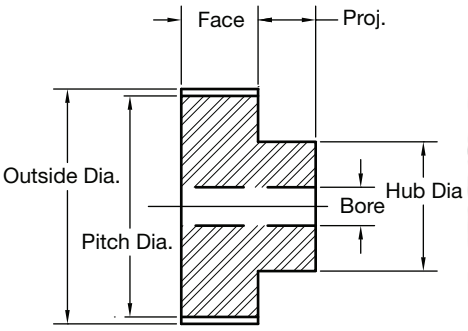
14½° P.A. Gears Will Not Operate With 20° P.A.

Nylon Stock Spur Gears

14½° Pressure Angle

20 DP

3/8" Face





Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material: Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws

Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	20 DP		Type	Bore (inches)		Hub (inches)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM2011	0.550	0.650	B	0.250	0.313	0.406	0.375
12	NM2012	0.600	0.700	B	0.250	0.313	0.469	0.375
14	NM2014	0.700	0.800	B	0.250	0.313	0.547	0.375
15	NM2015	0.750	0.850	B	0.250	0.375	0.609	0.375
18	NM2018	0.900	1.000	B	0.250	0.375	0.750	0.375
20	NM2020	1.000	1.100	B	0.250	0.375	0.859	0.375
24	NM2024	1.200	1.300	B	0.375	0.563	1.063	0.375
30	NM2030	1.500	1.600	B	0.375	0.813	1.359	0.375
32	NM2032	1.600	1.700	B	0.375	0.875	1.438	0.500

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

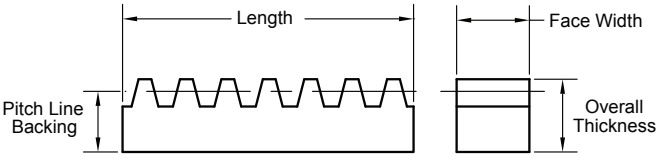
Machined Nylon Gear Rack

Gear Rack
14-1/2° PA

Pitch	Catalog Number	Face Width	Overall Thick	Pitch Line Backing
3.00	R3X4NM	3.000	1.500	1.167
4.00	R4X4NM	2.000	1.500	1.250
4.00	RA4X4NM	2.000	2.000	1.750
5.00	R5X4NM	1.750	1.250	1.050
5.00	RA5X4NM	1.750	1.500	1.300
6.00	R6X4NM	1.500	1.000	0.833
6.00	RA6X4NM	1.500	1.500	1.333
8.00	R8X4NM	1.250	0.750	0.625
8.00	RA8X4NM	1.250	1.250	1.125
10.00	R10X4NM	1.000	0.625	0.525
10.00	RA10X4NM	1.000	1.000	0.900
12.00	R12X4NM	0.750	0.500	0.417
12.00	RA12X4NM	0.750	0.750	0.667
16.00	RA16X4NM	0.500	0.500	0.438
20.00	RA20X4NM	0.375	0.375	0.325

- Standard Material: Natural Oil-Filled Nylon
- Other dimensions available
- Supplied as nominal 48" lengths. Matched ends available upon request



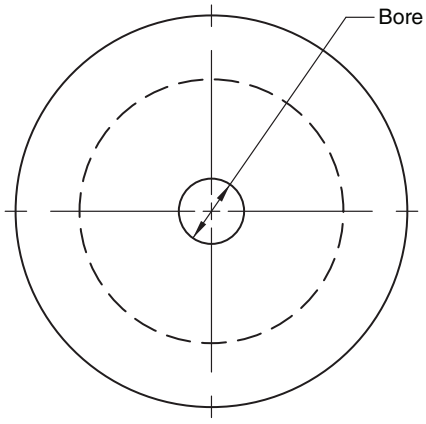


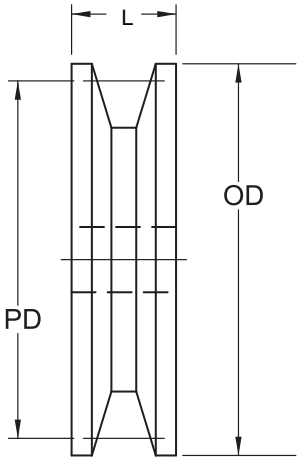
Gear Rack
20° PA

Pitch	Catalog Number	Face Width	Overall Thick	Pitch Line Backing
3.00	TR3X4NM	3.000	1.500	1.167
4.00	TR4X4NM	2.000	1.500	1.250
4.00	TRA4X4NM	2.000	2.000	1.750
5.00	TR5X4NM	1.750	1.250	1.050
5.00	TRA5X4NM	1.750	1.500	1.300
6.00	TR6X4NM	1.500	1.000	0.833
6.00	TRA6X4NM	1.500	1.500	1.333
8.00	TR8X4NM	1.250	0.750	0.625
8.00	TRA8X4NM	1.250	1.250	1.125
10.00	TR10X4NM	1.000	0.625	0.525
10.00	TRA10X4NM	1.000	1.000	0.900
12.00	TR12X4NM	0.750	0.500	0.417
12.00	TRA12X4NM	0.750	0.750	0.667
16.00	TR16X4NM	0.500	0.313	0.250
16.00	TRA16X4NM	0.500	0.500	0.438
20.00	TRA20X4NM	0.375	0.375	0.325

V-Belt Sheaves
UHMW – White

UHMW V-Belt Sheaves are ideal for use in power transmission and motion transfer. Martin offers a wide selections of pulleys in White Food Grade UHMW. Other sizes and materials are available upon request.





V-BELT SHEAVES

V-Belt Sheaves for A Belts

1 Groove				
F= 3/4				
Part Number	PD	OD	Length Thru Bore	Stock Bore
1 A 15NM	1.500	1.750	0.750	0.250
1 A 18NM	1.800	2.050	0.750	0.250
1 A 19NM	1.900	2.150	0.750	0.250
1 A 20NM	2.000	2.250	0.750	0.250
1 A 21NM	2.100	2.350	0.750	0.250
1 A 23NM	2.300	2.550	0.750	0.250
1 A 24NM	2.400	2.650	0.750	0.250
1 A 25NM	2.500	2.750	0.750	0.250
1 A 26NM	2.600	2.850	0.750	0.250
1 A 28NM	2.800	3.050	0.750	0.250
1 A 30NM	3.000	3.250	0.750	0.250
1 A 32NM	3.200	3.450	0.750	0.500

NOTE: Dimensions in inches.

V-Belt Sheaves for Combination A/B Belts

1 Groove				
F= 1				
Part Number	PD	OD	Length Thru Bore	Stock Bore
1 B 34NM	3.400	3.750	1.000	0.500
1 B 36NM	3.600	3.950	1.000	0.500
1 B 38NM	3.800	4.150	1.000	0.500
1 B 40NM	4.000	4.350	1.000	0.500
1 B 42NM	4.200	4.550	1.000	0.500
1 B 44NM	4.400	4.750	1.000	0.500
1 B 46NM	4.600	4.950	1.000	0.500
1 B 48NM	4.800	5.150	1.000	0.500
1 B 50NM	5.000	5.350	1.000	0.500
1 B 52NM	5.200	5.750	1.000	0.500
1 B 54NM	5.400	5.950	1.000	0.500
1 B 56NM	5.600	6.150	1.000	0.500
1 B 58NM	5.800	6.350	1.000	0.500
1 B 60NM	6.000	6.550	1.000	0.500
1 B 62NM	6.200	6.500	1.000	0.500
1 B 64NM	6.400	6.750	1.000	0.500
1 B 66NM	6.600	6.950	1.000	0.500
1 B 68NM	6.800	7.150	1.000	0.500
1 B 74NM	7.400	7.750	1.000	0.500
1 B 86NM	8.600	8.950	1.000	0.500
1 B 94NM	9.400	9.750	1.000	0.500
1 B 110NM	11.000	11.350	1.000	0.500
1 B 124NM	12.400	12.750	1.000	0.500

NOTE: Reboring, multiple deep groove, and other configurations are available upon request. Dimensions in inches.

Round Belt Pulleys

UHMW – White

Round Belt Pulleys for 1/4" Round Belt White UHMW

1 Groove				
F= 1/2"				
Part Number	OD	L Length thru Bore	R	Stock Bore
1.5 WRSNM	1.500	0.500	0.141	0.250
2.0 WRSNM	2.000	0.500	0.141	0.250
2.5 WRSNM	2.500	0.500	0.141	0.250
3.0 WRSNM	3.000	0.500	0.141	0.500
3.5 WRSNM	3.500	0.500	0.141	0.500
4.0 WRSNM	4.000	0.500	0.141	0.500
4.5 WRSNM	4.500	0.500	0.141	0.500
5.0 WRSNM	5.000	0.500	0.141	0.500

Dimensions in inches.

Round Belt Pulleys for 3/8" Round Belt White UHMW

1 Groove				
F= 5/8"				
Part Number	OD	L Length thru Bore	R	Stock Bore
2.0 WRSNM	2.000	0.625	0.203	0.250
2.5 WRSNM	2.500	0.625	0.203	0.250
3.0 WRSNM	3.000	0.625	0.203	0.250
3.5 WRSNM	3.500	0.625	0.203	0.500
4.0 WRSNM	4.000	0.625	0.203	0.500
4.5 WRSNM	4.500	0.625	0.203	0.500
5.0 WRSNM	5.000	0.625	0.203	0.500
5.5 WRSNM	5.500	0.625	0.203	0.500
6.0 WRSNM	6.000	0.625	0.203	0.500
6.5 WRSNM	6.500	0.625	0.203	0.500

NOTE: Dimensions in inches.

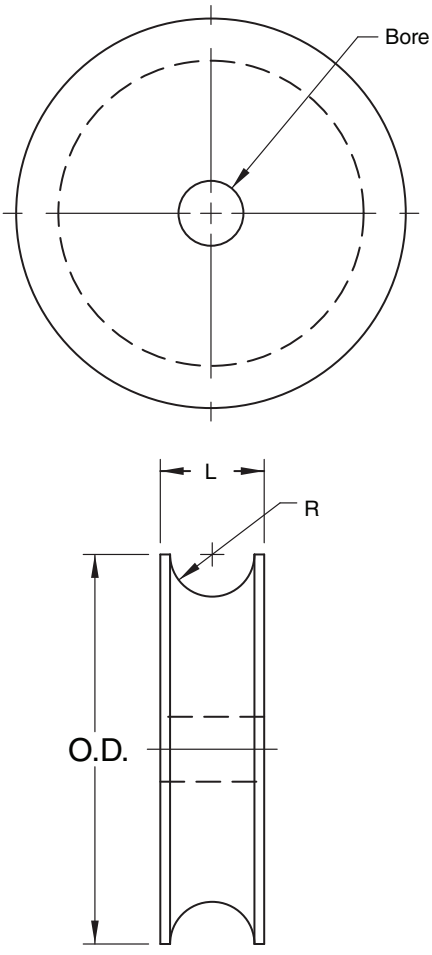
Round Belt Pulleys for 1/2" Round Belt White UHMW

1 Groove				
F= 3/4"				
Part Number	OD	W	R	Stock Bore
3.0 WRSNM	3.000	0.750	0.266	0.250
3.5 WRSNM	3.500	0.750	0.266	0.500
4.0 WRSNM	4.000	0.750	0.266	0.500
4.5 WRSNM	4.500	0.750	0.266	0.500
5.0 WRSNM	5.000	0.750	0.266	0.500
5.5 WRSNM	5.500	0.750	0.266	0.500
6.0 WRSNM	6.000	0.750	0.266	0.500
6.5 WRSNM	6.500	0.750	0.266	0.500
7.0 WRSNM	7.000	0.750	0.266	0.500
7.5 WRSNM	7.500	0.750	0.266	0.500
8.0 WRSNM	8.000	0.750	0.266	0.500
9.0 WRSNM	9.000	0.750	0.266	0.500
10.0 WRSNM	10.000	0.750	0.266	0.500

NOTE: Dimensions in inches.

Martin Round Belt Pulleys are ideal for use in power tranmission applications. Martin's Round Belt pulleys are manufactured from Food Grade White UHMW, which requires no lubrication. Pulleys are chemical, moisture and abrasive resistant. These light weight pulleys offer exceptional durability.

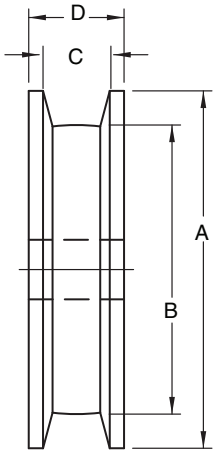
Pulleys are available in all popular sizes. Other sizes and material such as Nylon and acetal are available as Made to Order.



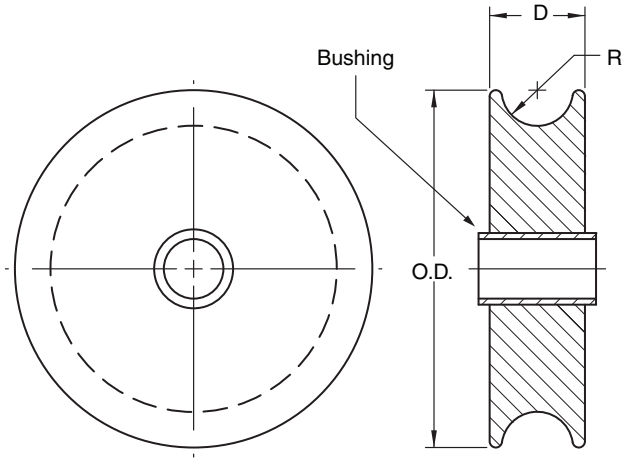
ROUND BELT PULLEY

Flat Belt & Can Line Pulleys
UVMW – White

Martin Can Line Pulleys are ideal for cable conveying lines in food processing plants where noise and corrosion are a problem. Stainless Steel Bushings are available Martin's Can Line Pulleys cand extend the life of either plastic or steel cable.



FLAT BELT PULLEY



CAN LINE PULLEY

Flat Belt Pulleys — UHMW-PE: White

Part Number	A	B	C	D
FBPULLEY0301NM	3.000	2.500	0.750	1.000
FBPULLEY0302NM	3.000	2.500	1.000	1.250
FBPULLEY0351NM	3.500	3.000	0.750	1.000
FBPULLEY0352NM	3.500	3.000	1.000	1.250
FBPULLEY0451NM	4.500	4.000	0.750	1.000
FBPULLEY0452NM	4.500	4.000	1.000	1.250
FBPULLEY0551NM	5.500	5.000	1.000	1.250
FBPULLEY0552NM	5.500	5.000	1.350	1.500

NOTE: Dimensions in inches.
Reboring available upon request.

Can Line Cable Pulleys For 3/8" Round Belt — UHMW-PE: Green

Part Number	OD	D	R
CLPULLEY2148NM	3.000	0.625	0.203
CLPULLEY2164NM	4.000	0.625	0.203

NOTE: Dimensions in inches.
Reboring available upon request.

Can Line Steel Bushings — UHMW-PE: White

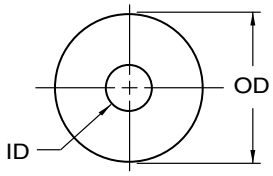
Part Number	I.D.
CLBUSHING232SS	0.250
CLBUSHING233SS	0.375

NOTE: Dimensions in inches.
Bushings are Stainless Steel.

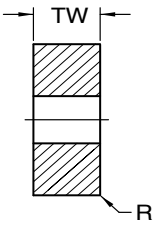
Wheels & Rollers

UHMW – White

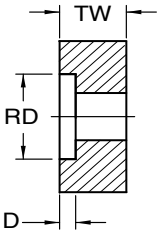
Martin Wheels may be used as a direct replacement for conventional steel or aluminum wheels in many applications. These industrial plastic wheels are quiet operatiing, non-marking and corrosion resistant while maintaining a high load capacity.



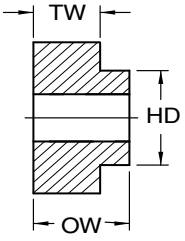
WHEELS & ROLLERS - SHARP CORNERED EDGES



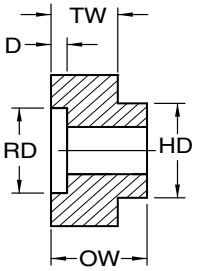
TYPE E



TYPE F



TYPE G

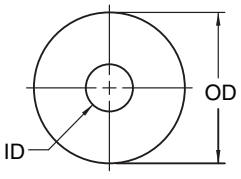


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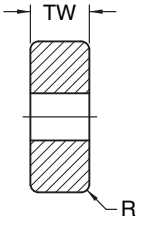
Wheels & Roller – Sharp Corner Edges

Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter	RD Recess Diameter	D Recess Depth
WRS1001NM	E	0.438	0.125	0.250				
WRS1002NM	G	0.438	0.125	0.250	0.313	0.313		
WRS1003NM	F	0.438	0.139	0.313			0.219	0.063
WRS1004NM	F	0.438	0.139	0.313			0.313	0.125
WRS1005NM	E	0.500	0.201	0.313				
WRS1006NM	F	0.563	0.264	0.313			0.469	0.063
WRS1007NM	E	0.625	0.201	0.500				
WRS1008NM	H	0.688	0.389	0.188	0.250	0.500	0.500	0.063
WRS1009NM	E	0.750	0.264	0.781				
WRS1010NM	E	0.750	0.264	1.000				
WRS1011NM	E	0.875	0.187	0.500				
WRS1012NM	F	0.875	0.327	0.469			0.625	0.188
WRS1013NM	H	0.875	0.201	0.313	0.375	0.688	0.625	0.125
WRS1014NM	F	1.000	0.380	0.375			0.813	0.063
WRS1015NM	E	1.125	0.260	0.375				
WRS1016NM	F	1.500	0.317	0.406			1.250	0.156
WRS1017NM	G	2.500	0.326	1.375	1.500	0.750		
WRS1018NM	G	3.000	0.505	1.375	1.250	0.875		

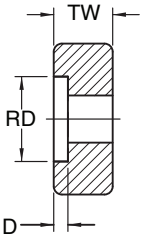
NOTE: Dimensions in inches.



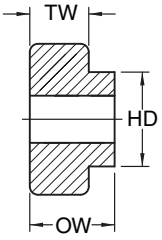
WHEELS & ROLLERS - RADIUS EDGES



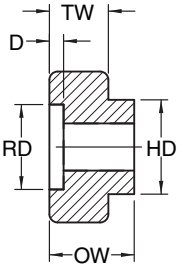
TYPE E



TYPE F



TYPE G



TYPE H

Wheels & Roller – Radius Edges

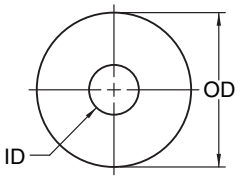
Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter	RD Recess Diameter	D Recess Depth	R Radius
WRR2001NM	F	0.375	0.095	0.375	-	-	0.188	0.125	0.125
WRR2002NM	F	0.500	0.190	0.375	-	-	0.375	0.063	0.063
WRR2003NM	F	0.625	0.187	0.313	-	-	0.313	0.125	0.063
WRR2004NM	H	0.750	0.201	0.250	0.281	0.313	0.656	0.063	0.063
WRR2005NM	E	0.750	0.264	0.500	-	-	-	-	0.125
WRR2006NM	G	0.875	0.139	0.375	0.438	0.500	-	-	0.125
WRR2007NM	F	1.000	0.201	0.500	-	-	0.563	0.094	0.063
WRR2008NM	E	1.125	0.264	0.375	-	-	-	-	0.125
WRR2009NM	H	1.125	0.326	0.375	0.438	0.500	0.625	0.063	0.125
WRR2010NM	E	2.000	0.641	0.125	-	-	-	-	0.063

NOTE: Dimensions in inches.
Other sizes are available upon request.
Other materials, such as Acetal, Teflon® and Nylon, are also available.

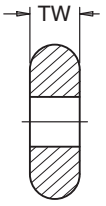
Wheels & Rollers

UHMW – White

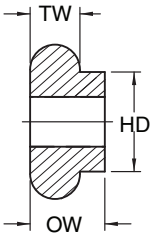
Martin Wheels may be used as a direct replacement for conventional steel or aluminum wheels in many applications. These industrial plastic wheels are quiet operatiing, non-marking and corrosion resistant while maintaining a high load capacity.



WHEELS & ROLLERS - FULL RADIUS EDGES



TYPE M

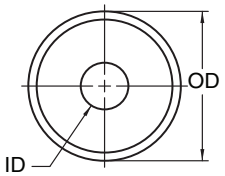


TYPE N

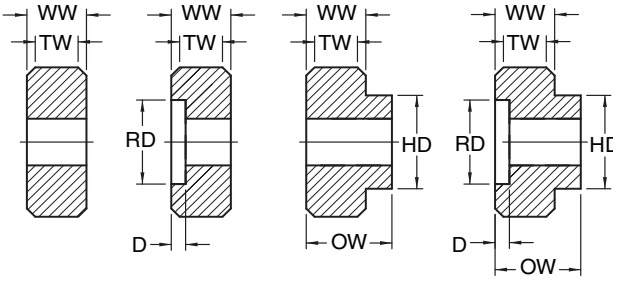
Wheels & Roller – Full Radius Edges

Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter
WRFR4001NM	M	0.750	0.264	0.250	-	-
WRFR4002NM	N	0.750	0.264	0.250	0.313	0.375
WRFR4003NM	N	0.750	0.312	0.250	0.500	0.500
WRFR4004NM	N	0.938	0.375	0.188	0.250	0.500
WRFR4005NM	M	1.000	0.201	0.250	-	-
WRFR4006NM	M	1.500	0.389	0.750	-	-
WRFR4007NM	N	1.500	0.389	0.750	1.000	0.750
WRFR4008NM	M	2.000	0.389	1.000	-	-

NOTE: Dimensions in inches.



WHEELS & ROLLERS - CHAMFERED EDGES



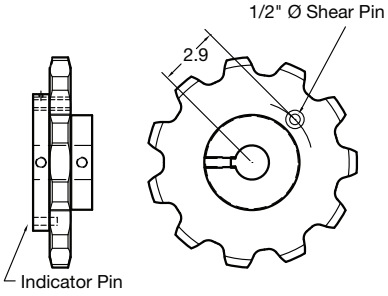
TYPE I **TYPE J** **TYPE K** **TYPE L**

- Trolley Wheels
- Guide Wheels
- Spools
- Crowned Wheels
- Pallet Jack Wheels

Wheels & Roller – Chamfered Edges

Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter	RD Recess Diameter	D Recess Depth	Chamfer
WRC3001NM	L	0.750	0.326	0.219	0.500	0.500	0.563	0.031	45° × .031
WRC3002NM	I	0.875	0.326	0.250	-	-	-	-	45° × .031
WRC3003NM	L	0.875	0.375	0.188	0.375	0.500	0.500	0.031	45° × .031
WRC3004NM	K	0.875	0.389	0.188	0.375	0.500	-	-	45° × .031
WRC3005NM	J	0.938	0.375	0.313	-	-	-	-	45° × .031
WRC3006NM	K	0.938	0.389	0.188	0.375	0.500	0.500	0.063	45° × .031
WRC3007NM	I	1.000	0.750	0.500	-	-	-	-	45° × .063
WRC3008NM	J	1.000	0.389	0.188	-	-	0.813	0.063	45° × .031
WRC3009NM	I	1.063	0.326	0.250	-	-	-	-	45° × .063
WRC3010NM	L	1.063	0.389	0.094	0.563	0.625	0.625	0.063	45° × .094
WRC3011NM	I	1.500	0.505	1.000	-	-	-	-	45° × .125

NOTE: Dimensions in inches.
Other sizes are available upon request.
Other materials, such as Acetal, Teflon® and Nylon, are also available.

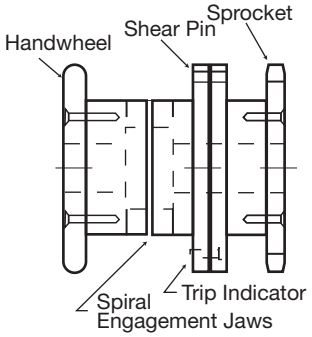


78 Series Shear Pin Sprocket

- Nylon Body & Nylon Sprocket
- Includes Trip Indicator

No. Teeth	Part Number	Pitch Dia.	Type	Bore Max.	A	B	C	D
10	78SP10NM	8.440	C	2.000	4.875	3.250	3.750	8.000
11	78SP11NM	9.260	C	2.500	4.875	3.250	3.750	8.000
13	78SP13NM	10.900	C	3.000	5.875	3.750	4.438	9.000

Dimensions in inches.



78 Series Jaw Clutch Sprocket

- Nylon Body & UHMW Sprocket
- Includes Trip Indicator

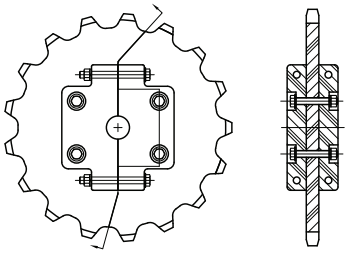
No. Teeth	Part Number	Pitch Dia.	Type	Bore Max.	A	B	C	D
11	78JC11	9.260	C	2.500	3.500	2.750	3.000	14.250

Dimensions in inches.

720 Series Split Sprocket

- UHMW sprocket plates & hubs
- 304 Stainless Steel hardware as standard
- 316 Stainless Steel hardware optional
- Standard Rim and Chain-saver rim available
- Other Numbers of Teeth Available

6.0" Pitch, 1" Nominal Plate Width
4" Length Thru Bore, C- Hub

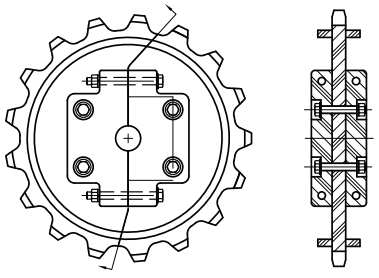


No. Teeth	Part No.	Pitch Dia.	Outside Dia.	Bore Stock (in.)	Max Drive	Max Idler	Hub Dia.	Nom. LTB
13	720C13NMS	12.910	13.500	1.000	3.250	3.625	7.000	4.000
17	720C17NMS	16.590	17.090	1.750	3.938	5.000	8.875	4.000
19	720C19NMS	18.450	18.950	1.750	3.938	5.000	8.875	4.000
21	720C21NMS	20.330	20.830	1.750	3.938	5.000	8.875	4.000
23	720C23NMS	22.210	22.710	1.750	3.938	5.000	8.875	4.000
25	720C25NMS	24.100	24.600	1.750	4.500	6.000	10.500	4.000

Dimensions in inches.

Chainsaver Rim 720CS Sprocket

6.0" Pitch, 1" Nominal Plate Width
4" Length Thru Bore, C- Hub

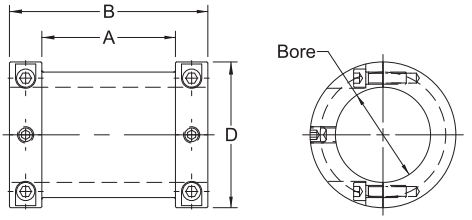


No. Teeth	Part No.	Pitch Dia.	Outside Dia.	Chain Saver Hub Dia.	Bore Stock (in.)	Max Drive	Max Idler	Hub. Dia.	Nom. LTB
13	720CS13NMS	12.890	13.390	10.030	1.000	3.250	3.625	7.000	4.000
17	720CS17NMS	16.590	17.090	14.070	1.750	3.938	5.000	8.875	4.000
19	720CS19NMS	18.450	18.950	16.060	1.750	3.938	5.000	8.875	4.000
21	720CS21NMS	20.330	20.830	18.040	1.750	3.938	5.000	8.875	4.000
23	720CS23NMS	22.210	22.710	20.000	1.750	3.938	5.000	8.875	4.000
25	720CS25NMS	24.100	24.600	22.030	1.750	4.500	6.000	10.500	4.000

Dimensions in inches.

Static Shaft Bushings

These static shaft bushings protect expensive shafts from damage caused by idler sprockets. Manufactured from green oil-filled nylon with stainless steel hardware. They are as durable as stainless steel counterparts at a fraction of the cost. They are chemical, corrosion, moisture and abrasive resistant. Custom sizes and materials available.

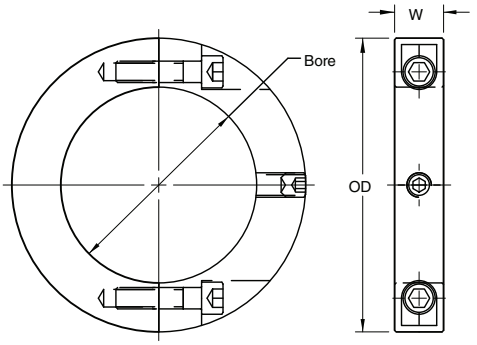


Static Shaft Bushing-Split

Part Number	Max. Shaft Size	A	B	D
WTB4700	2.938	4.130	6.125	4.500
WTB6400	4.000	4.130	6.125	6.000
WTB7200	4.500	4.130	6.125	6.250
WTB8400	5.250	4.130	6.125	7.000

Dimensions in inches.

Shaft Collars – Regular Duty



Part Number	W	Outside Diameter	Bore	
			Stock	Max.
WTSC600	1.000	6.000	1.750	4.000
WTSC800	1.000	8.000	3.250	5.000

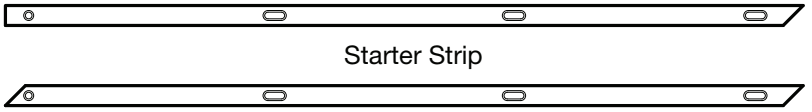
Dimensions in inches.

Shaft Collars – Heavy Duty

Part Number	W	Outside Diameter	Bore	
			Stock	Max.
WTSC2600	2.50	6.00	1.75	4.00
WTSC2800	2.50	8.00	3.25	5.00

Wear Strips

These wear strips are easy to install and provide superior protection for rails and other moving machinery. Strips include slots for weld washer installations. We can easily accommodate any special spacing or size requirement for the strips and slots.



Starter Strip

Filler Strip

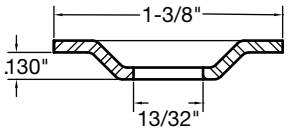
Filler Wear Strips

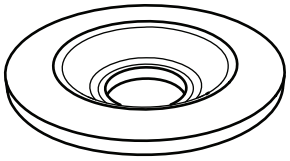
Starter Wear Strips

Part Number	Thickness	Width	Length	Center Line	Part Number	Thickness	Width	Length	Center Line
WTF1000	0.38	2.63	120.00	1.31	WTS1100	0.38	2.63	120.00	1.31
WTF1002	0.38	3.00	120.00	1.50	WTS1102	0.38	3.00	120.00	1.50
WTF1003	0.50	2.50	120.00	1.25	WTS1103	0.50	2.50	120.00	1.25
WTF1004	0.50	3.00	120.00	1.50	WTS1104	0.50	3.00	120.00	1.50
WTF1005	0.50	3.50	120.00	1.75	WTS1105	0.50	3.50	120.00	1.75
WTF1006	0.50	4.00	120.00	2.00	WTS1106	0.50	4.00	120.00	2.00
WTF1007	0.50	5.00	120.00	2.50	WTS1107	0.50	5.00	120.00	2.50
WTF1008	0.63	2.50	120.00	1.25	WTS1108	0.63	2.50	120.00	1.25
WTF1009	0.63	3.00	120.00	1.50	WTS1109	0.63	3.00	120.00	1.50
WTF1010	0.63	4.00	120.00	2.00	WTS1110	0.63	4.00	120.00	2.00
WTF1011	0.63	5.00	120.00	2.50	WTS1111	0.63	5.00	120.00	2.50

Dimensions in inches.

Weld Washers





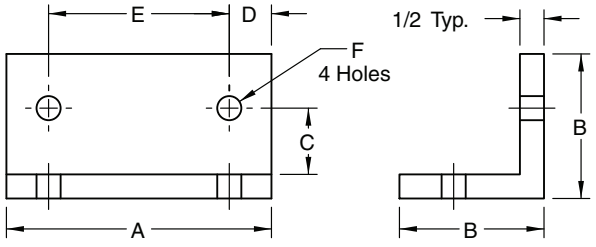
Used to fasten wear strips to rails and tank floors.

Part Number	Material	Diameter (Inches)
WTWW1375SS	Stainless Steel	1-3/8
WTWW1376	Carbon Steel	1-3/8

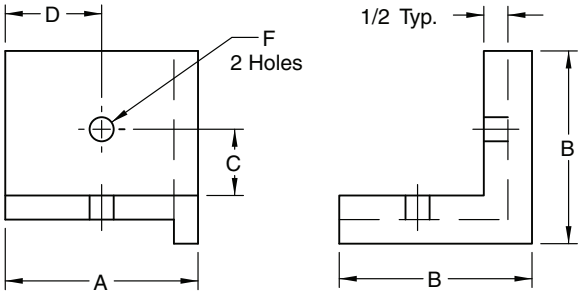
Dimensions in inches.

Wear Shoes

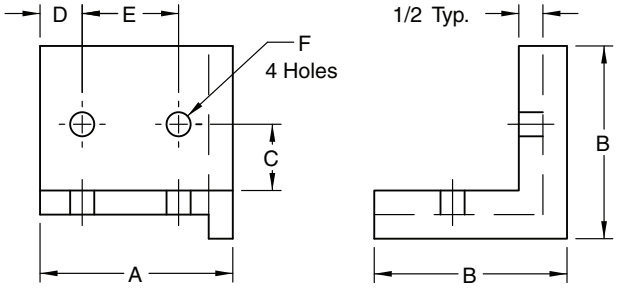
Wear Shoes may be manufactured to fit your particular application. For custom wear shoes, please provide your Martin representative with specifications.



CARRYING WEARSHOE



SINGLE HOLE RETURN WEARSHOE



DOUBLE HOLE RETURN WEARSHOE

Carrying Wear Shoes

Part Number	A	B	C	D	E	F
WTWS1001	5.50	3.00	1.31	0.88	3.75	0.50
WTWS1550	5.50	3.00	1.38	0.88	3.75	0.50
WTWS1600	6.00	3.00	1.38	1.13	3.75	0.50

Dimensions in inches.

Single Hole Return Wear Shoes

Part Number	A	B	C	D	E	F
WTWS2001	4.00	3.50	1.31	2.00	-	0.50
WTWS2450	4.00	3.50	1.38	2.00	-	0.50
WTWS2550	4.50	3.50	1.38	2.25	-	0.50

Double Hole Return Wear Shoes

Part Number	A	B	C	D	E	F
WTWS3400	4.00	3.50	1.38	0.88	2.00	0.50
WTWS3450	4.50	3.50	1.38	0.88	1.00	0.50
WTWS3600	6.00	3.50	1.38	1.13	3.75	0.50

Dimensions in inches.

Replacement Parts For Bottling & Packaging Plants

Martin manufactures star wheels, guides and associated components in a variety of engineering plastics as well as metals, providing you with a single source for all your processing and packaging components.

Martin's 31 branch locations and vast manufacturing capabilities mean we can provide you with the convenience of working with one manufacturer who understands your needs and can ensure all parts work together as required as well as offering fast turnaround on all custom work.



APPLICATION:

- Beverage Bottling
- Pharmaceutical Packaging
- Canning
- Food Processing
- Glass Inspection Machines
- Labeling Machines
  - Cappers - Cleaners - Steamers
  - Fillers - Labelers - Coders - Pluggers
  - Pump Placers - Monoblock
  - Cottoners

Mounting Options:

- **Standard** - Using OEM original bolt on method of securing and positioning parts.
- **Quick Change** - Requires one-time modifications to your machines to utilize quick change securing methods.

Benefits of Plastic components:

- Exceptional resistance to wear and abrasion
- Food grade approved material – FDA compliant
- High impact strength
- Corrosion and chemical resistance
- Self-lubricating, eliminating routine/costly maintenance
- Low co-efficient of friction
- Light weight – typically 1/7th the weight of steel
- High visibility colors for increased safety - Makes for easy identification of parts
- Significant noise reduction
- No loose hardware



For a Fast & Free Quote

Contact your Martin Distributor

or visit www.martinsprocket.com

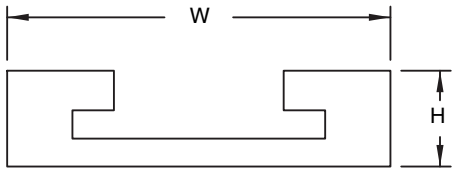
SolidTrack®
Corner Track - Tab Design

SolidTrack 90º Corners

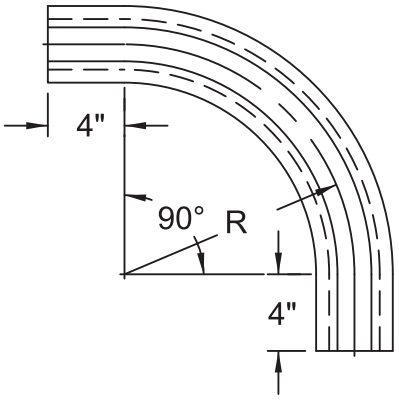
Tab Design with Extensions — UHMW — White

Part Number	Chain Number	Standard Radius -R	W	H
CHNGCT1111NM	SS881T, D880T, D879T, K3-1/4	18", 24", 30"	4	1
CHNGCT1211NM	SS881T, D880T, D879T, K4-1/2	24", 30", 36"	5	1
CHNGCT1221NM	D882TLW K4-1/2	24", 30", 36"	5	1 – 3/8
CHNGCT1421NM	D882TLW K7-1/2	24", 30", 36"	8	1 – 3/8
CHNGCT1521NM	D882TLW K10	24", 30", 36"	10 - _	1 – 3/8
CHNGCT1621NM	D882TLW K12	24", 30", 36"	12 - _	1 – 3/8
CHNGCT1131NM	1873T, 1874T, K3-1/4	18", 24", 30"	4	1 – 3/8
CHNGCT1231NM	1873T, 1874T, K4-1/2	18", 24", 30"	5	1 – 3/8
CHNGCT1331NM	1873T, 1874T, K6	18", 24", 30"	6 - _	1 – 3/8
CHNGCT1431NM	1873T, 1874T, K7-1/2	18", 24", 30"	8	1 – 3/8
CHNGCT1531NM	1873T K10	18", 24", 30"	10 - _	1 – 3/8
CHNGCT1631NM	1873T K12	18", 24", 30"	12 - _	1 – 3/8

NOTE: 4" straight extensions on each end.
Specify radius when ordering.
30" corner radius and above are furnished in two 45° segments.



Corner Track – Tab Design



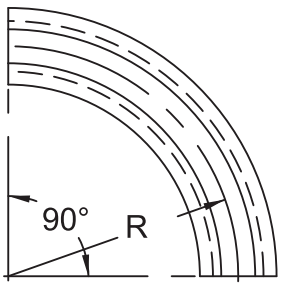
Corner Track – Tab Design with Extensions

SolidTrack 90º Corners

Tab Design without Extensions — UHMW — White

Part Number	Chain Number	Standard Radius -R	W	H
CHNGCT1113NM	SS881T, D880T, D879T, K3-1/4	18", 24", 30"	4	1
CHNGCT1213NM	SS881T, D880T, D879T, K4-1/2	24", 30", 36"	5	1
CHNGCT1223NM	D882TLW K4-1/2	24", 30", 36"	5	1 – 3/8
CHNGCT1423NM	D882TLW K7-1/2	24", 30", 36"	8	1 – 3/8
CHNGCT1523NM	D882TLW K10	24", 30", 36"	10 - _	1 – 3/8
CHNGCT1623NM	D882TLW K12	24", 30", 36"	12 - _	1 – 3/8
CHNGCT1133NM	1873T, 1874T, K3-1/4	18", 24", 30"	4	1 – 3/8
CHNGCT1233NM	1873T, 1874T, K4-1/2	18", 24", 30"	5	1 – 3/8
CHNGCT1333NM	1873T, 1874T, K6	18", 24", 30"	6 - _	1 – 3/8
CHNGCT1433NM	1873T, 1874T, K7-1/2	18", 24", 30"	8	1 – 3/8
CHNGCT1533NM	1873T K10	18", 24", 30"	10 - _	1 – 3/8
CHNGCT1633NM	1873T K12	18", 24", 30"	12 - _	1 – 3/8

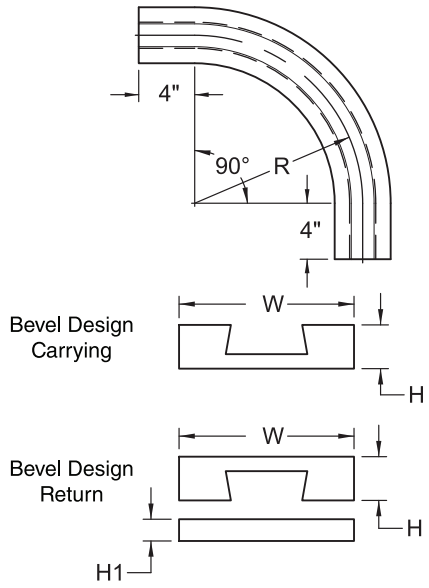
NOTE: Specify radius when ordering.
30" corner radius and above are furnished in two 45° segments.



Corner Track – Tab Design without Extensions

SolidTrack® is a registered trademark of Quandrant EPP AG, a Poly Hi Solidur, Inc. Company

SolidTrack®
Corner Track - Bevel Design



CORNER TRACK - BEVEL DESIGN WITH EXTENSIONS

SolidTrack 90º Corners — Carrying

Bevel Design with Extensions

UHMW — White

Part Number	Chain Number	Standard Radius -(R)	W	H
CHNGCB2111-18NM	SS881, D880, D879 K3-1/4	18'	4	1
CHNGCB2111-24NM	SS881, D880, D879 K3-1/4	24"	4	1
CHNGCB2111-30NM	SS881, D880, D879 K3-1/4	30"	4	1
CHNGCB2211-24NM	SS881, D880, D879 K4-1/2	24"	5	1
CHNGCB2211-30NM	SS881, D880, D879 K4-1/2	30"	5	1
CHNGCB2211-36NM	SS881, D880, D879 K4-1/2	36"	5	1

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

SolidTrack 90º Corners – Return

Bevel Design with Extensions

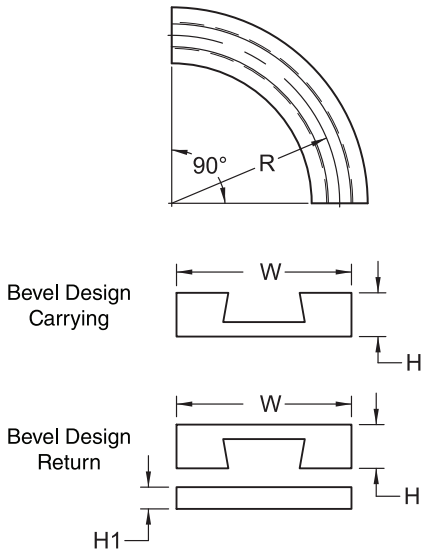
UHMW — White

Part Number	Chain No.	Standard Radius -(R)	W	H	H1
CHNGCB311118NM	SS881, D880, D879 K3-1/4	18'	4	1	0.625
CHNGCB311124NM	SS881, D880, D879 K3-1/4	24"	4	1	0.625
CHNGCB311130NM	SS881, D880, D879 K3-1/4	30"	4	1	0.625
CHNGCB321124NM	SS881, D880, D879 K4-1/2	24"	5	1	0.625
CHNGCB321130NM	SS881, D880, D879 K4-1/2	30"	5	1	0.625
CHNGCB321136NM	SS881, D880, D879 K4-1/2	36"	5	1	0.625

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

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SolidTrack®
Corner Track - Bevel Design



CORNER TRACK - BEVEL DESIGN
WITHOUT EXTENSIONS

SolidTrack 90º Corners – Carrying

Bevel Design without Extensions — UHMW — White

Part Number	Chain No.	Standard Radius -(R)	W	H
CHNGCB211318NM	SS881, D880, D879 K3-1/4	18'	4	1
CHNGCB211324NM	SS881, D880, D879 K3-1/4	24”	4	1
CHNGCB211330NM	SS881, D880, D879 K3-1/4	30”	4	1
CHNGCB221324NM	SS881, D880, D879 K4-1/2	24”	5	1
CHNGCB221330NM	SS881, D880, D879 K4-1/2	30”	5	1
CHNGCB221336NM	SS881, D880, D879 K4-1/2	36”	5	1

NOTE: 30" corner radius and above are furnished in two 45° segments.

SolidTrack 90º Corners – Return

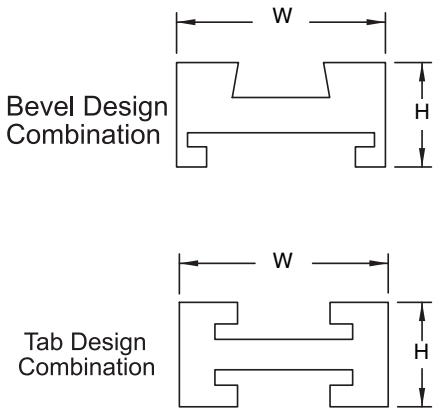
Bevel Design without Extensions — UHMW — White

Part Number	Chain No.	Standard Radius -(R)	W	H	H1
CHNGCB311318NM	SS881, D880, D879 K3-1/4	18'	4	1	0.625
CHNGCB311324NM	SS881, D880, D879 K3-1/4	24”	4	1	0.625
CHNGCB311330NM	SS881, D880, D879 K3-1/4	30”	4	1	0.625
CHNGCB321324NM	SS881, D880, D879 K4-1/2	24”	5	1	0.625
CHNGCB321330NM	SS881, D880, D879 K4-1/2	30”	5	1	0.625
CHNGCB321336NM	SS881, D880, D879 K4-1/2	36”	5	1	0.625

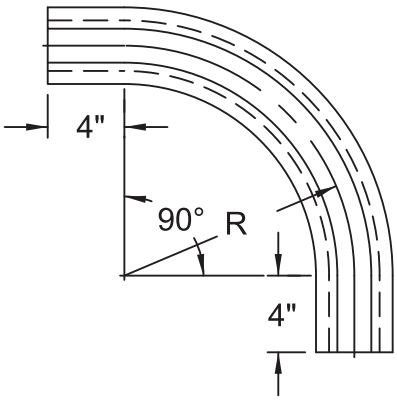
NOTE: 30" corner radius and above are furnished in two 45° segments.

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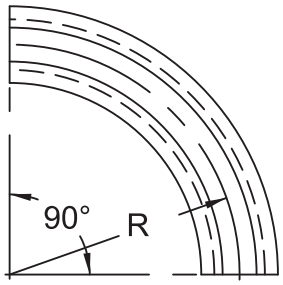
SolidTrack®
Corner Track - Combination Design



Corner Track – Combination Design



Corner Track – Tab Design with Extensions



Corner Track – Tab Design without Extensions

SolidTrack 90º Corners – Combination

Tab Design without Extensions — UHMW — White

Part Number	Chain Number	Standard Radius -(R)	W	H
CHNGCCT1113NM	SS881T, D880T, D879T K3-1/4	18", 24", 30"	4	2.00
CHNGCCT1213NM	SS881T, D880T, D879T K4-1/2	24", 30", 36"	5	2.00
CHNGCCT1223NM	D882TLW K4-1/2	24", 30", 36"	5	2.63
CHNGCCT1423NM	D882TLW K7-1/2	24", 30", 36"	8	2.63
CHNGCCT1523NM	D882TLW K10	24", 30", 36"	10 - _	2.63
CHNGCCT1623NM	D882TLW K12	24", 30", 36"	12 - _	2.63
CHNGCCT1133NM	1873T, 1874T K3-1/4	18", 24", 30"	4	2.63
CHNGCCT1233NM	1873T, 1874T K4-1/2	18", 24", 30"	5	2.63
CHNGCCT1333NM	1873T, 1874T K6	18", 24", 30"	6 - _	2.63
CHNGCCT1433NM	1873T, 1874T K7-1/2	18", 24", 30"	8	2.63
CHNGCCT1533NM	1873T, 1874T K10	18", 24", 30"	10 - _	2.63
CHNGCCT1633NM	1873T, 1874T K12	18", 24", 30"	12 – _	2.63

NOTE: 4" straight extensions on each end.
Specify radius when ordering.
30" corner radius and above are furnished in two 45° segments.

SolidTrack 90º Corners – Combination

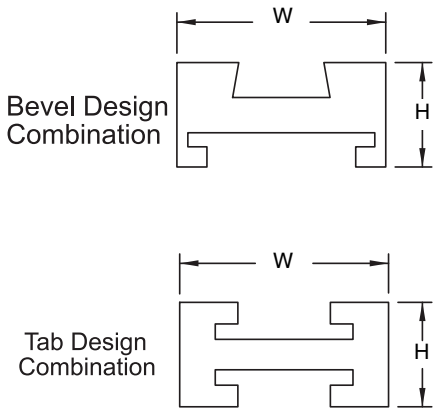
Bevel Design without Extensions — UHMW — White

Part Number	Chain Number	Standard Radius -(R)	W	H
CHNGCCB2113NM	SS881, D880, D879 K3-1/4	18", 24", 30"	4	2.00
CHNGCCB2213NM	SS881, D880, D879 K4-1/2	24", 30", 36"	5	2.00

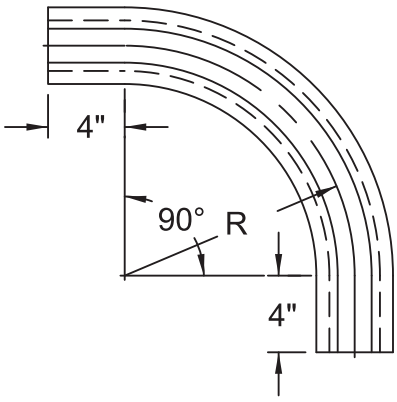
NOTE: 4" straight extensions on each end.
Specify radius when ordering.

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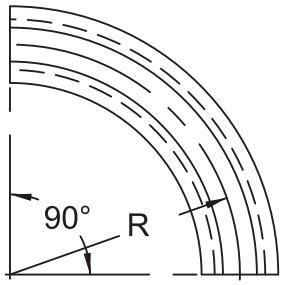
SolidTrack®
Corner Track - Combination Design



Corner Track – Combination Design



Corner Track – Tab Design with Extensions



Corner Track – Tab Design without Extensions

SolidTrack 90º Corners – Combination

Tab Design with Extensions

UHMW — White

Part Number	Chain Number	Standard Radius -(R)	W	H
CHNGCCT1111NM	SS881T, D880T, D879T K3-1/4	18", 24", 30"	4	2.00
CHNGCCT1211NM	SS881T, D880T, D879T K4-1/2	24", 30", 36"	5	2.00
CHNGCCT1221NM	D882TLW K4-1/2	24", 30", 36"	5	2.63
CHNGCCT1421NM	D882TLW K7-1/2	24", 30", 36"	8	2.63
CHNGCCT1521NM	D882TLW K10	24", 30", 36"	10 - _	2.63
CHNGCCT1621NM	D882TLW K12	24", 30", 36"	12 - _	2.63
CHNGCCT1131NM	1873T, 1874T K3-1/4	18", 24", 30"	4	2.63
CHNGCCT1231NM	1873T, 1874T K4-1/2	18", 24", 30"	5	2.63
CHNGCCT1331NM	1873T, 1874T K6	18", 24", 30"	6 - _	2.63
CHNGCCT1431NM	1873T, 1874T K7-1/2	18", 24", 30"	8	2.63
CHNGCCT1531NM	1873T K10	18", 24", 30"	10 - _	2.63
CHNGCCT1631NM	1873T K12	18", 24", 30"	12 – _	2.63

NOTE: 4" straight extensions on each end.
Specify radius when ordering.

SolidTrack 90º Corners – Combination

Bevel Design with Extensions

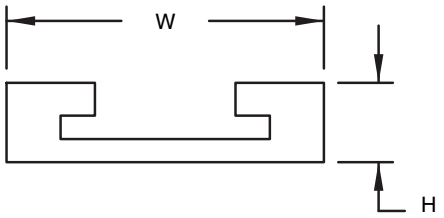
UHMW — White

Part Number	Chain Number	Standard Radius -(R)	W	H
CHNGCCB2111NM	SS881, D880, D879 K3-1/4	18", 24", 30"	4	2.00
CHNGCCB2211NM	SS881, D880, D879 K4-1/2	24", 30", 36"	5	2.00

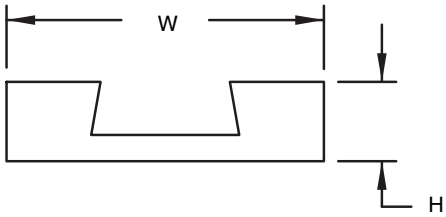
NOTE: 4" straight extensions on each end.
Specify radius when ordering.

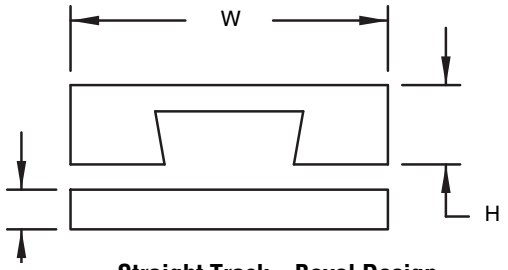
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SolidTrack® Straight Track - Tab, Bevel & Combination Design

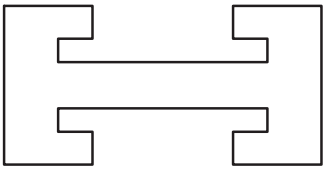


Straight Track – Tab Design

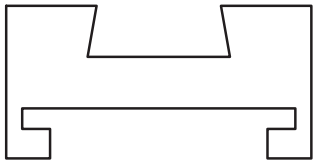




Straight Track – Bevel Design



Straight Track – Tab Design Combination



Straight Track – Bevel Design Combination

SolidTrack – Straight — Tab Design — UHMW — White

Part Number	Chain Number	Standard Lengths	W	H
CHNGST1112NM	SS881T, D880T, D879T K3-1/4	10'	4	1.00
CHNGST1212NM	SS881T, D880T, D879T K4-1/2	10'	5	1.00
CHNGST1222NM	D882TLW K4-1/2	10'	5	1.38
CHNGST1422NM	D882TLW K7-1/2	10'	8	1.38
CHNGST1522NM	D882TLW K10	10'	10 - _	1.38
CHNGST1622NM	D882TLW K12	10'	12 - _	1.38
CHNGST1132NM	1873T, 1874T, K3-1/4	10'	4	1.38
CHNGST1232NM	1873T, 1874T, K4-1/2	10'	5	1.38
CHNGST1332NM	1873T, 1874T, K6	10'	6 - _	1.38
CHNGST1432NM	1873T, 1874T, K7-1/2	10'	8	1.38
CHNGST1532NM	1873T K10	10'	10 - _	1.38
CHNGST1632NM	1873T K12	10'	12 - _	1.38

SolidTrack – Straight – Carrying — Bevel Design — UHMW — White

Part Number	Chain Number	Standard Lengths	W	H
CHNGSB2112NM	SS881, D880, D879, K3-1/4	10'	4	1.00
CHNGSB2212NM	SS881, D880, D879, K4-1/2	10'	5	1.00

SolidTrack – Straight – Return — Bevel Design — UHMW — White

Part Number	Chain Number	Standard Lengths	W	H	H1
CHNGSB3112NM	SS881, D880, D879, K3-1/4	10'	4	1.00	0.625
CHNGSB3212NM	SS881, D880, D879, K4-1/2	10'	5	1.00	0.625

SolidTrack – Straight – Combination — Tab Design — UHMW — White

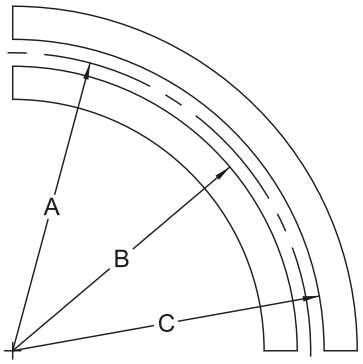
Part Number	Chain Number	Standard Lengths
CHNGSC1112NM	SS881T, D880T, D879T K3-1/4	10'
CHNGSC1212NM	SS881T, D880T, D879T K4-1/2	10'
CHNGSC1222NM	D882TLW K4-1/2	10'
CHNGSC1422NM	D882TLW K7-1/2	10'
CHNGSC1522NM	D882TLW K10	10'
CHNGSC1622NM	D882TLW K12	10'
CHNGSC1132NM	1873T, 1874T, K3-1/4	10'
CHNGSC1232NM	1873T, 1874T, K4-1/2	10'
CHNGSC1332NM	1873T, 1874T, K6	10'
CHNGSC1432NM	1873T, 1874T, K7-1/2	10'
CHNGSC1532NM	1873T K10	10'
CHNGSC1632NM	1873T K12	10'

SolidTrack – Straight – Combination — Bevel Design — UHMW — White

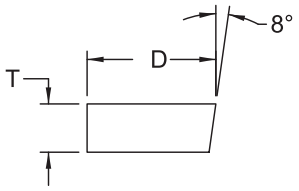
Part Number	Chain No.	Standard Lengths
CHNGSC2112NM	SS881, D880, D879, K3-1/4	10'
CHNGSC2212NM	SS881, D880, D879, K4-1/2	10'

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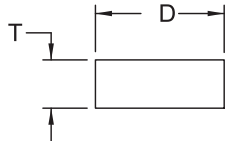
Radius Curve Wearstrip For Flat Top Chain



Radius Curve Wearstrip



Bevel Chain Design



Tab Chain Design

Radius Curve Wearstrip — Bevel Design — UHMW — White

Part Number	Wearstrip No.	Chain No.	Nom. Corner Radius A	Track Radius		Width D	Thickness T (+0, -1/16)
				Inside B	Outside C		
CHNGWB1813NM	U18B3	880, 881	18	17.1875	18.8125	1.00	0.375
CHNGWB2413NM	U24B3	880, 881	24	23.1875	24.8125	1.00	0.375
CHNGWB3013NM	U30B3	880, 881	30	29.1875	30.8125	1.50	0.375
CHNGWB2415NM	U24B5	882	24	22.859375	25.140625	1.50	0.625
CHNGWB3015NM	U30B5	882	30	28.859375	31.140625	1.50	0.625

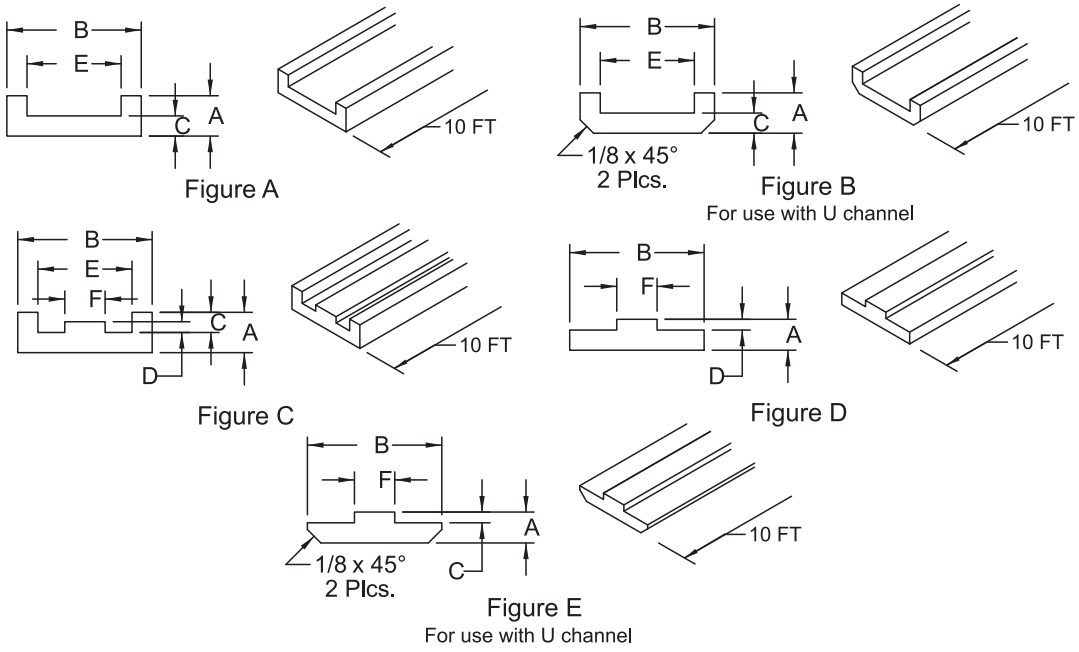
NOTE: 30" radius furnished in two 45° segments to make one 90° segment. All others are 90° segment.
Dimensions in inches.

Radius Curve Wearstrip — Tab Design — UHMW — White

Part Number	Wearstrip No.	Chain No.	Nom. Corner Radius A	Track Radius		Width D	Thickness T (+0, -1/16)
				Inside B	Outside C		
CHNGWT1803NM	U18R3	880, 881	18	17.125	18.875	1.50	0.375
CHNGWT2403NM	U24R3	880, 881	24	23.125	24.875	1.50	0.375
CHNGWT3003NM	U30R3	880, 881	30	29.125	30.875	1.50	0.375
CHNGWT2405NM	U24R5	882	24	22.859375	25.140625	1.50	0.625
CHNGWT3005NM	U30R5	882	30	28.859375	31.140625	1.50	0.625
CHNGWT1806NM	U18R6	1873, 1874, 3873	18	17.3125	18.6875	1.50	0.75
CHNGWT2406NM	U24R6	1873, 1874, 3873	24	23.3125	24.6875	1.50	0.75
CHNGWT3006NM	R30R6	1873, 1874, 3873	30	29.3125	30.6875	1.50	0.75

NOTE: 30" radius furnished in two 45° segments to make one 90° segment. All others are 90° segment.
Dimensions in inches.

Chain Guide Raceway For Flat Top Chain



Chain Guide Raceway

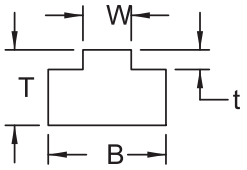
Chain Guide Raceway

UHMW — White

Part Number	Type	ANSI Chain No.	A Minimum	B Minimum	C	D	E	F
CHNGR1040NM	A	2040	0.31	1.25	0.19	-	0.88	-
CHNGR1050NM		2050	0.38	1.25	0.22	-	1.00	-
CHNGR1060NM		2060	0.38	1.50	0.19	-	1.25	-
CHNGR1080NM		2080	0.50	2.00	0.25	-	1.56	-
CHNGR1100NM		2100	0.63	2.25	0.31	-	1.88	-
CHNGR1120NM		2120	0.63	2.75	0.25	-	2.25	-
CHNGR1003NM		H78/S188	1.25	4.25	0.38	-	3.50	-
CHNGR1004NM		81X/1578	1.00	3.00	0.38	-	2.50	-
CHNGR0040NM	B	2040	0.31	1.25	0.19	-	0.88	-
CHNGR0050NM		2050	0.38	1.25	0.22	-	1.00	-
CHNGR0060NM		2060	0.38	1.50	0.19	-	1.25	-
CHNGR0080NM		2080	0.50	2.00	0.25	-	1.56	-
CHNGR0100NM		2100	0.63	2.25	0.31	-	1.88	-
CHNGR0120NM		2120	0.63	2.75	0.25	-	2.25	-
CHNGR2040NM	C	2040	0.31	1.00	0.14	0.08	0.69	0.25
CHNGR2050NM		2050	0.38	1.25	0.81	0.10	0.81	0.31
CHNGR2060NM		2060	0.50	1.50	0.21	0.12	1.13	0.44
CHNGR2080NM		2080	0.50	2.00	0.25	0.13	1.44	0.56
CHNGR5040NM	D	2040	0.31	1.00	0.08	-	-	0.25
CHNGR5050NM		2050	0.31	1.25	0.10	-	-	0.31
CHNGR5060NM		2060	0.31	1.25	0.12	-	-	0.44
CHNGR5080NM		2080	0.38	1.50	0.13	-	-	0.56
CHNGR5100NM		2100	0.50	2.00	0.21	-	-	0.69
CHNGR5120NM		2120	0.50	2.25	0.26	-	-	0.94
CHNGR6040NM	E	2040	0.31	1.00	0.80	-	-	0.25
CHNGR6050NM		2050	0.31	1.25	0.10	-	-	0.31
CHNGR6060NM		2060	0.31	1.25	0.12	-	-	0.44
CHNGR6080NM		2080	0.38	1.50	0.13	-	-	0.56
CHNGR6100NM		2100	0.50	2.00	0.21	-	-	0.69
CHNGR6120NM		2120	0.50	2.25	0.26	-	-	0.94

NOTE: Standard Chain guide raceway length is 10 ft.
Dimension in inches.

UltraTrac Chain Guides For ANSI Standard Roller Chain



UltraTrac Chain Guide – Type T

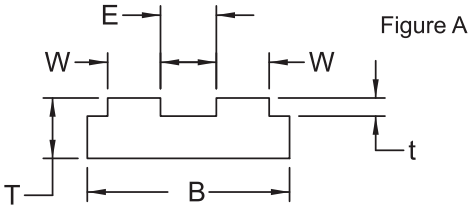


Figure A

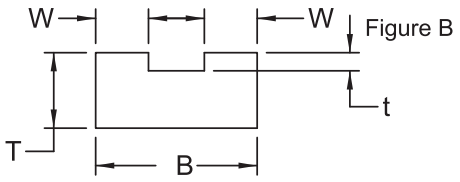


Figure B

UltraTrac Chain Guide – Type TD

Type T For ANSI Standard Roller Chain — UHMW — White

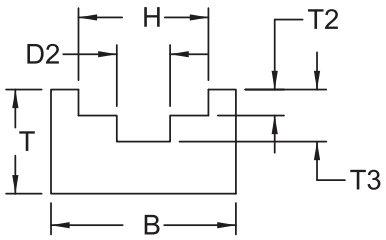
Part Number	ANSI Chain No.	B	T	W	t
CHNGUTT2825NM	25	0.78	0.59	0.10	0.09
CHNGUTT2835NM	35	0.78	0.59	0.17	0.10
CHNGUTT2840NM	40	0.78	0.59	0.29	0.10
CHNGUTT2850NM	50	0.78	0.59	0.36	0.12
CHNGUTT2860NM	60	1.10	0.59	0.47	0.15
CHNGUTT2880NM	80	1.34	0.71	0.60	0.18
CHNGUTT2810NM	100	1.61	1.00	0.72	0.26
CHNGUTT2812NM	120	2.01	1.25	0.96	0.31
CHNGUTT2814NM	140	2.17	1.50	0.96	0.36
CHNGUTT2816NM	160	2.61	1.50	1.21	0.42
CHNGUTT2818NM	180	2.88	1.50	1.35	0.47

NOTE: Standard guide length is 10 ft.
Diimensions in inches

Type TD
For Double Strand ANSI Standard Roller Chain — UHMW — White

Part Number	ANSI Chain No.	B	T	W	t	E	Fig.
CHNGUTTD2925NM	25-2	0.78	0.59	0.1	0.09	0.15	A
CHNGUTTD2935NM	35-2	0.78	0.59	0.17	0.1	0.23	A
CHNGUTTD2940NM	40-2	0.85	0.59	0.29	0.1	0.27	B
CHNGUTTD2950NM	50-2	1.07	0.59	0.35	0.12	0.37	B
CHNGUTTD2960NM	60-2	1.34	0.59	0.47	0.15	0.4	B
CHNGUTTD2980NM	80-2	1.75	0.71	0.6	0.18	0.55	B

NOTE: Standard guide length is 10 ft.
Diimensions in inches

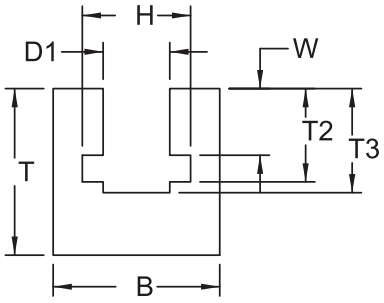


UltraTrac Chain Guide – Type U

Type U For ANSI Standard Roller Chain — UHMW — White

Part Number	ANSI Chain No.	B	T	T2	T3	D2	H
CHNGUTU3025NM	25	0.78	0.59	0.09	0.13	0.12	0.27
CHNGUTU3035NM	35	0.78	0.59	0.15	0.22	0.16	0.39
CHNGUTU3040NM	40/2040	0.78	0.59	0.18	0.26	0.21	0.51
CHNGUTU3050NM	50/2050	1.10	0.71	0.24	0.35	0.28	0.67
CHNGUTU3060NM	60/2060	1.10	0.71	0.28	0.41	0.32	0.78
CHNGUTU3080NM	80/2080	1.50	0.79	0.30	0.47	0.43	1.04

NOTE: Standard guide length is 10 ft.
Diimensions in inches.

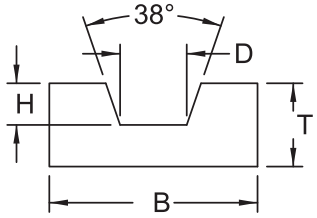


UltraTrac Chain Guide – Type K

Type K For ANSI Standard Roller Chain — UHMW — White

Part Number	ANSI Chain No.	B	T	T2	T3	D1	H
CHNGUTK3125NM	25	0.78	0.88	0.10	0.24	0.15	0.27
CHNGUTK3135NM	35	0.78	0.88	0.17	0.40	0.22	0.39
CHNGUTK3140NM	40/2040	1.10	1.05	0.29	0.52	0.33	0.51
CHNGUTK3150NM	50/2050	1.50	1.43	0.35	0.61	0.42	0.67
CHNGUTK3160NM	60/2060	1.50	1.85	0.47	0.88	0.49	0.78
CHNGUTK3180NM	80/2080	1.50	2.45	0.60	1.19	0.65	1.04

NOTE: Standard guide length is 10 ft.
Diimensions in inches.



Type V

Type U For ANSI Standard Roller Chain — UHMW — White

Part Number	ANSI Chain No.	B	T	T2	T3	D2	H
CHNGUTU3025NM	25	0.78	0.59	0.09	0.13	0.12	0.27
CHNGUTU3035NM	35	0.78	0.59	0.15	0.22	0.16	0.39
CHNGUTU3040NM	40/2040	0.78	0.59	0.18	0.26	0.21	0.51
CHNGUTU3050NM	50/2050	1.10	0.71	0.24	0.35	0.28	0.67
CHNGUTU3060NM	60/2060	1.10	0.71	0.28	0.41	0.32	0.78
CHNGUTU3080NM	80/2080	1.50	0.79	0.30	0.47	0.43	1.04

NOTE: Standard guide length is 10 ft.
Diimensions in inches.

Natural Nylon Sprockets

MATERIAL	COMMON APPLICATIONS
UHMW Excellent abrasion resistance Low co-efficient of friction Shear strength of approximately 3,500 psi Flexural mod. of approximately 125,000 psi Economical Floats in water Two common types: Natural virgin Food applications Black reprocessed Resistant to UV degradation Slightly less expensive May have multi-colored specks	Wear strips Chain guide Conveyor beds Large structural components RC sprockets (usually 50 series and larger) Mill Sprockets (Engineering Class) (nearly always black reprocessed UHMW) Bushings
Nylon Good abrasion resistance Excellent PV value for bearing applications Shear strength of approximately 10,500 psi Flexural mod. of approximately 500,000 psi Mid-priced Does not float in water Will absorb moisture resulting in dimensional changes and reduced strength Several common types: Natural Food applications MD filled (dark grey color) High load bushings Oil-filled (natural or green color) Gears, bushings, other sliding wear components	High temperature wear strips Small structural components Bushings Spur Gears RC sprockets (usually 50 series and smaller).
Acetal (Typically used for structural components) Not great for wear applications Shear strength of approximately 8,000 psi Flexural mod. of approximately 400,000 psi Mid-priced Does not float in water Does not absorb moisture, good dimensional stability Also known as DuPont® Delrin® acetal resin. Available in white, or black.	High temperature wear strips Small structural components RC sprockets (usually 50 series and smaller). Bushings Spur gears Components of food processing equipment exposed to wet environments clamps, rollers, dies.

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CONVEYOR PULLEYS - HEAVY DUTY

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Heavy Duty Conveyor Pulleys

Martin now offers a comprehensive line of conveyor pulleys for your bulk material handling needs. Broadening our offering without compromising quality on:

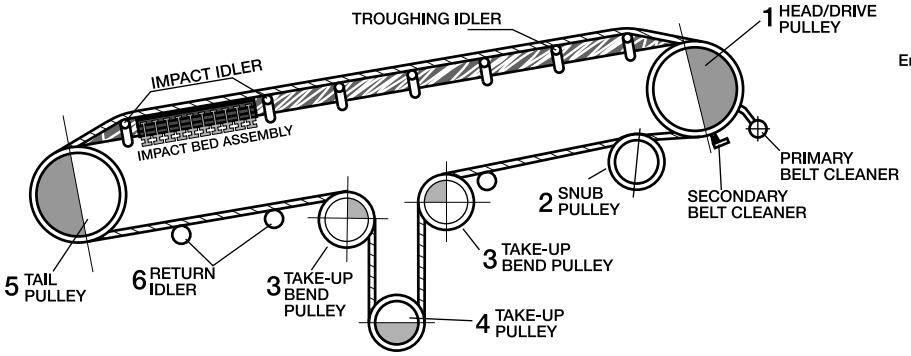
- Drum Pulleys — Lagged and Plain
- Wing Pulleys
- Bushings
- Shafts
- Wear Items
- Take-up Frames
- Specialty Pulleys



Seeing is believing — The Martin difference

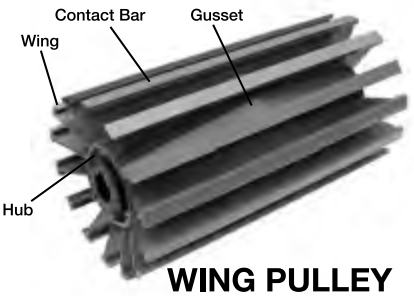
All of Martin's conveyor pulleys meet or exceed CEMA standards for construction. Our pulleys are the heaviest, most durable in the industry.

Conveyor Components Locations and Terminology





DRUM PULLEY



WING PULLEY

1. **Head Pulley** The pulley at the discharge end of a conveyor belt; may be either an idler or a drive pulley. Usually it has a larger diameter than other pulleys in the system and is often lagged to increase traction and pulley life.
2. **Snub Pulley** Mounted close to the drive pulley on the return side of the belt, the snub pulley's primary job is to increase the angle of wrap around the drive pulley, thereby increasing traction. Its secondary purpose is reducing belt tension, which is important in maximizing conveyor component life. May be lagged for longer wear life.
3. **Take-Up Bend Pulley** The bend pulley is used for changing the direction of the belt running to the gravity take-up. May be lagged for longer wear life.
4. **Take-Up Pulley** An adjustable idler pulley to accommodate changes in the length of a conveyor belt to maintain proper tension.
5. **Tail Pulley** A pulley at the tail of the belt conveyor opposite the normal discharge end; may be a drive pulley or an idler pulley.
6. **Return Idler** The idler or roller on which the conveyor belt rides after the load which it was carrying has been dumped.

Martin Sales and Engineering will work with you to completely solve your belt conveying needs. The following pages will assist you in selecting most of the components for your conveyor. Since there are infinite amounts of conveying possibilities and configurations our sales and engineering staff are prepared to assist you with each of them.

Pulley Nomenclature



STANDARD DUTY
DRUM PULLEYS



QUARRY DUTY
DRUM PULLEYS



MINE DUTY
DRUM PULLEYS



ENGINEERED CLASS
DRUM PULLEYS



MACHINED
DRUM PULLEYS



STANDARD DUTY
WING PULLEY



QUARRY DUTY
WING PULLEY



MINE DUTY
WING PULLEY



QUARRY DUTY "AR"
WING PULLEY

PART NOMENCLATURE

C S D 120 26 X25 L 3 H B

Face
C - Crown
F - Flat

Pulley Type
S - Standard Duty
M - Mine Duty
Q - Quarry Duty
QAR - Quarry Duty AR
E - Engineered Class

Pulley Style
D - Drum
W - Wing

Diameter
Example:
120=12.0″
065=6.5″

Face Width
In Inches

Bushing Part No.
X - MXT-STL (Steel)
MXT (Cast)
SF, E, F, JS, etc. - QD Bushing
K - (25, 30, 35 etc.) TB Bushing
H - M-HE Bushing
Note: "short" bushings are used in conveyor pulleys

Lagging
No Suffix
- No Lagging

Lagging Thickness
2 - 1/4"
3 - 3/8"
4 - 1/2"
5 - 5/8"
6 - 3/4"

Lagging Style
H - Herringbone
D - Diamond Groove
C - Ceramic
(no thickness specified)
S - Slide Lagging
R - Radial/Circumferential
P - Parallel (with shaft)
If no letter, Lagging is Smooth

Bushing
No "B"
no bushing

SPECIALS

Also available: • Spiral Pulleys • "DSP" Dead Shaft Pulleys • V-Guide Pulleys
• "VC" Vulcanized Ceramic Lagging
• Take-Up Frames

Drum Pulleys — Machined

Machined Drum Pulleys — Crowned



Martin's Machined Drum Pulleys are manufactured from thick wall pipe or tubing, then machined on a lathe to form the crown and ensure minimum runout in operation.

Our Machined Drum Pulleys are the heaviest in the business, featuring a 3/8" minimum end disc, or 3/4" thick integral hub and end discs, minimum 1/4" rims and 1/4" center plates. Because each pulley has been machined, the pulley is the thickest in the center where the load is the highest.

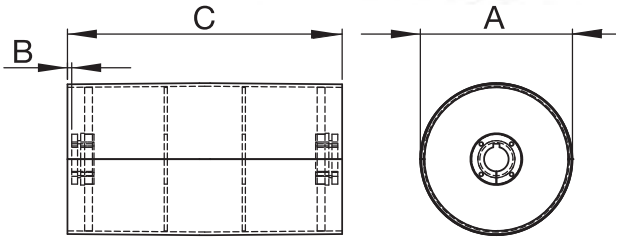
Our Machined Drum Pulleys run more concentric than pulleys made by the "expansion" method. This ensures better belt tracking and less vibration transferred to the bearings.

FEATURES:

- 4 to 10-3/4" Diameter
- 3/8" minimum End Disc
- 1/4" minimum Center Plates
- Several Hub/Bushing systems available

OPTIONS:

- Lagging
- Shafting
- Bearing Assemblies
- Take-Up Systems



Martin's Machined Drum Pulleys are manufactured with Crown face. Flat face available upon request.

Machined Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
4	CSD04008X15	8	MXT15	1-1/2	3/4	8
4	CSD04014X15	14	MXT15	1-1/2	3/4	14
4	CSD04020X15	20	MXT15	1-1/2	3/4	19
4	CSD04026X15	26	MXT15	1-1/2	3/4	24
4	CSD04032X15	32	MXT15	1-1/2	3/4	30
4	CSD04038X15	38	MXT15	1-1/2	3/4	35
4	CSD04044X15	44	MXT15	1-1/2	3/4	40
4	CSD04051X15	51	MXT15	1-1/2	3/4	46
4	CSD04057X15	57	MXT15	1-1/2	3/4	52
4	CSD04063X15	63	MXT15	1-1/2	3/4	57
4-1/2	CSD04508X15	8	MXT15	1-1/2	3/4	10
4-1/2	CSD04508X20	8	MXT20	2	3/4	12
4-1/2	CSD04514X15	14	MXT15	1-1/2	3/4	16
4-1/2	CSD04514X20	14	MXT20	2	3/4	17
4-1/2	CSD04520X15	20	MXT15	1-1/2	3/4	22
4-1/2	CSD04520X20	20	MXT20	2	3/4	23
4-1/2	CSD04526X15	26	MXT15	1-1/2	3/4	28
4-1/2	CSD04526X20	26	MXT20	2	3/4	29
4-1/2	CSD04532X15	32	MXT15	1-1/2	3/4	34
4-1/2	CSD04532X20	32	MXT20	2	3/4	35
4-1/2	CSD04538X15	38	MXT15	1-1/2	3/4	40
4-1/2	CSD04538X20	38	MXT20	2	3/4	41
4-1/2	CSD04544X15	44	MXT15	1-1/2	3/4	46
4-1/2	CSD04544X20	44	MXT20	2	3/4	47
4-1/2	CSD04551X15	51	MXT15	1-1/2	3/4	53
4-1/2	CSD04551X20	51	MXT20	2	3/4	54
4-1/2	CSD04557X15	57	MXT15	1-1/2	3/4	59
4-1/2	CSD04557X20	57	MXT20	2	3/4	60
4-1/2	CSD04563X15	63	MXT15	1-1/2	3/4	35
4-1/2	CSD04563X20	63	MXT20	2	3/4	66
5	CSD05008X15	8	MXT15	1-1/2	3/4	11
5	CSD05008X20	8	MXT20	2	3/4	16
5	CSD05014X15	14	MXT15	1-1/2	3/4	18
5	CSD05014X20	14	MXT20	2	3/4	22
5	CSD05020X15	20	MXT15	1-1/2	3/4	25
5	CSD05020X20	20	MXT20	2	3/4	29
5	CSD05026X15	26	MXT15	1-1/2	3/4	31

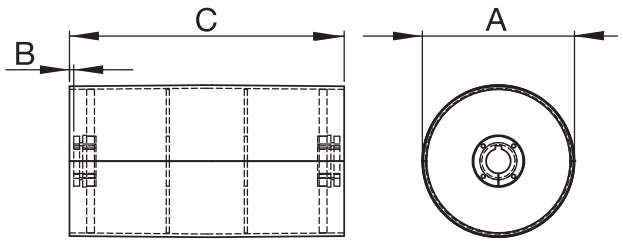
Machined Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
5	CSD05026X20	26	MXT20	2	3/4	36
5	CSD05032X15	32	MXT15	1-1/2	3/4	38
5	CSD05032X20	32	MXT20	2	3/4	43
5	CSD05038X15	38	MXT15	1-1/2	3/4	45
5	CSD05038X20	38	MXT20	2	3/4	49
5	CSD05044X15	44	MXT15	1-1/2	3/4	52
5	CSD05044X20	44	MXT20	2	3/4	56
5	CSD05051X15	51	MXT15	1-1/2	3/4	59
5	CSD05051X20	51	MXT20	2	3/4	64
5	CSD05057X15	57	MXT15	1-1/2	3/4	66
5	CSD05057X20	57	MXT20	2	3/4	70
5	CSD05063X15	63	MXT15	1-1/2	3/4	73
5	CSD05063X20	63	MXT20	2	3/4	77
5-1/2	CSD05508X15	8	MXT15	1-1/2	3/4	23
5-1/2	CSD05508X20	8	MXT20	2	3/4	28
5-1/2	CSD05514X15	14	MXT15	1-1/2	3/4	37
5-1/2	CSD05514X20	14	MXT20	2	3/4	42
5-1/2	CSD05520X15	20	MXT15	1-1/2	3/4	52
5-1/2	CSD05520X20	20	MXT20	2	3/4	57
5-1/2	CSD05526X15	26	MXT15	1-1/2	3/4	67
5-1/2	CSD05526X20	26	MXT20	2	3/4	72
5-1/2	CSD05532X15	32	MXT15	1-1/2	3/4	82
5-1/2	CSD05532X20	32	MXT20	2	3/4	86
5-1/2	CSD05538X15	38	MXT15	1-1/2	3/4	96
5-1/2	CSD05538X20	38	MXT20	2	3/4	101
5-1/2	CSD05544X15	44	MXT15	1-1/2	3/4	111
5-1/2	CSD05544X20	44	MXT20	2	3/4	116
5-1/2	CSD05551X15	51	MXT15	1-1/2	3/4	128
5-1/2	CSD05551X20	51	MXT20	2	3/4	133
5-1/2	CSD05557X15	57	MXT15	1-1/2	3/4	143
5-1/2	CSD05557X20	57	MXT20	2	3/4	143
5-1/2	CSD05563X15	63	MXT15	1-1/2	3/4	157
5-1/2	CSD05563X20	63	MXT20	2	3/4	162
6	CSD06008X20	8	MXT20	2	3/4	19
6	CSD06008X25	8	MXT25	2-1/2	3/4	17
6	CSD06012X25	12	MXT25	2-1/2	3/4	23
6	CSD06014X20	14	MXT20	2	3/4	27

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Machined



Machined Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
6	CSD06014X25	14	MXT25	2-1/2	3/4	25
6	CSD06018X25	18	MXT25	2-1/2	3/4	31
6	**CSD06020X20**	**20**	**MXT20**	**2**	**3/4**	**34**
6	CSD06020X25	20	MXT25	2-1/2	3/4	33
6	CSD06024X25	24	MXT25	2-1/2	3/4	39
6	**CSD06026X20**	**26**	**MXT20**	**2**	**3/4**	**42**
6	CSD06026X25	26	MXT25	2-1/2	3/4	41
6	CSD06030X25	30	MXT25	2-1/2	3/4	48
6	CSD06032X20	32	MXT20	2	3/4	52
6	**CSD06032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**42**
6	CSD06036X25	36	MXT25	2-1/2	3/4	56
6	CSD06038X20	38	MXT20	2	3/4	60
6	CSD06038X25	38	MXT25	2-1/2	3/4	58
6	CSD06040X25	40	MXT25	2-1/2	3/4	62
6	CSD06044X20	44	MXT20	2	3/4	69
6	CSD06044X25	44	MXT25	2-1/2	3/4	67
6	CSD06051X20	51	MXT20	2	3/4	78
6	CSD06051X25	51	MXT25	2-1/2	3/4	76
6	CSD06057X20	57	MXT20	2	3/4	86
6	CSD06057X25	57	MXT25	2-1/2	3/4	84
6	CSD06063X20	63	MXT20	2	3/4	94
6	CSD06063X25	63	MXT25	2-1/2	3/4	92
6-1/2	CSD06508X20	8	MXT20	2	3/4	28
6-1/2	CSD06508X25	8	MXT25	2-1/2	3/4	27
6-1/2	CSD06514X20	14	MXT20	2	3/4	43
6-1/2	CSD06514X25	14	MXT25	2-1/2	3/4	43
6-1/2	CSD06520X20	20	MXT20	2	3/4	59
6-1/2	CSD06520X25	20	MXT25	2-1/2	3/4	58
6-1/2	CSD06526X20	26	MXT20	2	3/4	74
6-1/2	CSD06526X25	26	MXT25	2-1/2	3/4	73
6-1/2	CSD06532X20	32	MXT20	2	3/4	90
6-1/2	CSD06532X25	32	MXT25	2-1/2	3/4	89
6-1/2	CSD06538X20	38	MXT20	2	3/4	105
6-1/2	CSD06538X25	38	MXT25	2-1/2	3/4	104
6-1/2	CSD06544X20	44	MXT20	2	3/4	121
6-1/2	CSD06544X25	44	MXT25	2-1/2	3/4	121
6-1/2	CSD06551X20	51	MXT20	2	3/4	139
6-1/2	CSD06551X25	51	MXT25	2-1/2	3/4	138
6-1/2	CSD06557X20	57	MXT20	2	3/4	155
6-1/2	CSD06557X25	57	MXT25	2-1/2	3/4	154
6-1/2	CSD06563X20	63	MXT20	2	3/4	170
6-1/2	CSD06563X25	63	MXT25	2-1/2	3/4	169
8	CSD08008X25	8	MXT25	2-1/2	3/4	27
8	CSD08008X30	8	MXT30	3	7/8	26
8	CSD08012X25	12	MXT25	2-1/2	3/4	35
8	CSD08014X25	14	MXT25	2-1/2	3/4	38
8	CSD08014X30	14	MXT30	3	7/8	36
8	CSD08018X25	18	MXT25	2-1/2	3/4	45
8	**CSD08020X20**	**20**	**MXT20**	**2**	**3/4**	**52**
8	CSD08020X25	20	MXT25	2-1/2	3/4	48
8	CSD08020X30	20	MXT30	3	7/8	47
8	CSD08020X35	20	MXT25	2-1/2	7/8	54
8	**CSD08026X25**	**26**	**MXT25**	**2-1/2**	**3/4**	**59**
8	CSD08026X30	26	MXT30	3	7/8	57

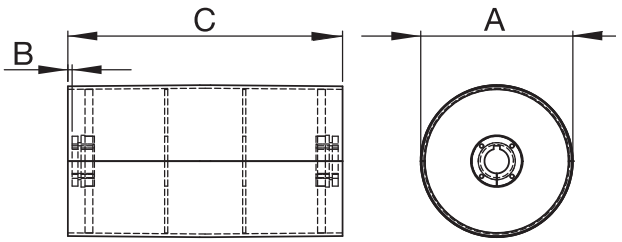
Machined Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
8	**CSD08032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**72**
8	CSD08032X30	32	MXT30	3	7/8	70
8	**CSD08038X25**	**38**	**MXT25**	**2-1/2**	**3/4**	**83**
8	CSD08038X30	38	MXT30	3	7/8	81
8	CSD08044X25	44	MXT25	2-1/2	3/4	96
8	**CSD08044X30**	**44**	**MXT30**	**3**	**7/8**	**93**
8	CSD08051X25	51	MXT25	2-1/2	3/4	103
8	CSD08051X30	51	MXT30	3	7/8	106
8	CSD08057X25	57	MXT25	2-1/2	3/4	119
8	CSD08057X30	57	MXT30	3	7/8	117
8	CSD08063X25	63	MXT25	2-1/2	3/4	129
8	CSD08063X30	63	MXT30	3	7/8	127
8-1/2	CSD08508X25	8	MXT25	2-1/2	3/4	43
8-1/2	CSD08508X30	8	MXT30	3	7/8	42
8-1/2	CSD08514X25	14	MXT25	2-1/2	3/4	66
8-1/2	CSD08514X30	14	MXT30	3	7/8	64
8-1/2	CSD08520X25	20	MXT25	2-1/2	3/4	88
8-1/2	CSD08520X30	20	MXT30	3	7/8	87
8-1/2	CSD08526X25	26	MXT25	2-1/2	3/4	111
8-1/2	CSD08526X30	26	MXT30	3	7/8	110
8-1/2	CSD08532X25	32	MXT25	2-1/2	3/4	136
8-1/2	CSD08532X30	32	MXT30	3	7/8	134
8-1/2	CSD08538X25	38	MXT25	2-1/2	3/4	159
8-1/2	CSD08538X30	38	MXT30	3	7/8	157
8-1/2	CSD08544X25	44	MXT25	2-1/2	3/4	184
8-1/2	CSD08544X30	44	MXT30	3	7/8	182
8-1/2	CSD08551X25	51	MXT25	2-1/2	3/4	210
8-1/2	CSD08551X30	51	MXT30	3	7/8	208
8-1/2	CSD08557X25	57	MXT25	2-1/2	3/4	233
8-1/2	CSD08557X30	57	MXT30	3	7/8	231
8-1/2	CSD08563X25	63	MXT25	2-1/2	3/4	255
8-1/2	CSD08563X30	63	MXT30	3	7/8	254
10	CSD10008X25	8	MXT25	2-1/2	3/4	44
10	CSD10008X30	8	MXT30	3	7/8	43
10	CSD10008X35	8	MXT35	3-1/2	7/8	41
10	CSD10010X25	10	MXT25	2-1/2	3/4	49
10	**CSD10012X25**	**12**	**MXT25**	**2-1/2**	**3/4**	**54**
10	CSD10012X30	12	MXT30	3	7/8	52
10	**CSD10014X25**	**14**	**MXT25**	**2-1/2**	**3/4**	**59**
10	CSD10014X30	14	MXT30	3	7/8	56
10	CSD10014X35	14	MXT35	3-1/2	7/8	54
10	**CSD10016X25**	**16**	**MXT25**	**2-1/2**	**3/4**	**63**
10	CSD10016X30	16	MXT30	3	7/8	61
10	CSD10016X35	16	MXT35	3-1/2	7/8	59
10	CSD10018X25	18	MXT25	2-1/2	3/4	67
10	CSD10018X30	18	MXT30	3	7/8	65
10	CSD10018X35	18	MXT35	3-1/2	7/8	64
10	**CSD10020X25**	**20**	**MXT25**	**2-1/2**	**3/4**	**71**
10	CSD10020X30	20	MXT30	3	7/8	69
10	CSD10020X35	20	MXT35	3-1/2	7/8	68
10	CSD10022X25	22	MXT25	2-1/2	3/4	76
10	CSD10022X30	22	MXT30	3	7/8	74
10	CSD10022X35	22	MXT35	3-1/2	7/8	72
10	**CSD10024X25**	**24**	**MXT25**	**2-1/2**	**3/4**	**80**

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Machined



Machined Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
10	CSD10024X30	24	MXT30	3	7/8	79
10	CSD10024X35	24	MXT35	3-1/2	7/8	77
10	**CSD10026X25**	**26**	**MXT25**	**2-1/2**	**3/4**	**84**
10	CSD10026X30	26	MXT30	3	7/8	83
10	CSD10026X35	26	MXT35	3-1/2	7/8	81
10	CSD10028X25	28	MXT25	2-1/2	3/4	94
10	CSD10030X25	30	MXT25	2-1/2	3/4	98
10	CSD10030X30	30	MXT30	3	7/8	96
10	CSD10030X35	30	MXT35	3-1/2	7/8	94
10	**CSD10032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**102**
10	**CSD10032X30**	**32**	**MXT30**	**3**	**7/8**	**100**
10	CSD10032X35	32	MXT35	3-1/2	7/8	98
10	CSD10036X25	36	MXT25	2-1/2	3/4	111
10	CSD10036X30	36	MXT30	3	7/8	109
10	CSD10036X35	36	MXT35	3-1/2	7/8	107
10	**CSD10038X25**	**38**	**MXT25**	**2-1/2**	**3/4**	**115**
10	**CSD10038X30**	**38**	**MXT30**	**3**	**7/8**	**113**
10	CSD10038X35	38	MXT35	3-1/2	7/8	110
10	CSD10040X25	40	MXT25	2-1/2	3/4	124
10	CSD10040X30	40	MXT30	3	7/8	122
10	CSD10040X35	40	MXT35	3-1/2	7/8	119
10	CSD10042X25	42	MXT25	2-1/2	3/4	129
10	CSD10042X30	42	MXT30	3	7/8	126
10	CSD10042X35	42	MXT35	3-1/2	7/8	124
10	**CSD10044X25**	**44**	**MXT25**	**2-1/2**	**3/4**	**133**
10	CSD10044X30	44	MXT30	3	7/8	130
10	**CSD10044X35**	**44**	**MXT35**	**3-1/2**	**7/8**	**128**
10	CSD10046X25	46	MXT25	2-1/2	3/4	138
10	CSD10046X30	46	MXT30	3	7/8	135
10	CSD10046X35	46	MXT35	3-1/2	7/8	133
10	**CSD10051X25**	**51**	**MXT25**	**2-1/2**	**3/4**	**148**
10	CSD10051X30	51	MXT30	3	7/8	146
10	CSD10051X35	51	MXT35	3-1/2	7/8	143
10	CSD10054X25	54	MXT25	2-1/2	3/4	156
10	CSD10057X25	57	MXT25	2-1/2	3/4	161
10	CSD10057X30	57	MXT30	3	7/8	159

Machined Duty Drum

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
10	CSD10057X35	57	MXT35	3-1/2	7/8	156
10	CSD10060X30	60	MXT30	3	7/8	167
10	CSD10063X25	63	MXT25	2-1/2	3/4	175
10	CSD10063X30	63	MXT30	3	7/8	173
10	CSD10063X35	63	MXT35	3-1/2	7/8	170
10-3/4	CSD10708X25	8	MXT25	2-1/2	3/4	47
10-3/4	CSD10708X30	8	MXT30	3	7/8	54
10-3/4	CSD10708X35	8	MXT35	3-1/2	7/8	53
10-3/4	CSD10714X25	14	MXT25	2-1/2	3/4	68
10-3/4	CSD10714X30	14	MXT30	3	7/8	76
10-3/4	CSD10714X35	14	MXT35	3-1/2	7/8	74
10-3/4	CSD10720X25	20	MXT25	2-1/2	3/4	89
10-3/4	CSD10720X30	20	MXT30	3	7/8	97
10-3/4	CSD10720X35	20	MXT35	3-1/2	7/8	96
10-3/4	CSD10726X25	26	MXT25	2-1/2	3/4	111
10-3/4	CSD10726X30	26	MXT30	3	7/8	119
10-3/4	CSD10726X35	26	MXT35	3-1/2	7/8	118
10-3/4	CSD10732X25	32	MXT25	2-1/2	3/4	137
10-3/4	CSD10732X30	32	MXT30	3	7/8	144
10-3/4	CSD10732X35	32	MXT35	3-1/2	7/8	143
10-3/4	CSD10738X30	38	MXT30	3	7/8	166
10-3/4	CSD10738X25	38	MXT25	2-1/2	3/4	158
10-3/4	CSD10738X35	38	MXT35	3-1/2	7/8	164
10-3/4	CSD10744X25	44	MXT25	2-1/2	3/4	185
10-3/4	CSD10744X30	44	MXT30	3	7/8	192
10-3/4	CSD10744X35	44	MXT35	3-1/2	7/8	190
10-3/4	CSD10751X25	51	MXT25	2-1/2	3/4	210
10-3/4	CSD10751X30	51	MXT30	3	7/8	216
10-3/4	CSD10751X35	51	MXT35	3-1/2	7/8	241
10-3/4	CSD10757X25	57	MXT25	2-1/2	3/4	231
10-3/4	CSD10757X30	57	MXT30	3	7/8	238
10-3/4	CSD10757X35	57	MXT35	3-1/2	7/8	236
10-3/4	CSD10763X25	63	MXT25	2-1/2	3/4	252
10-3/4	CSD10763X30	63	MXT30	3	7/8	259
10-3/4	CSD10763X35	63	MXT35	3-1/2	7/8	257

* General position for bushing face - for position per application consult Martin.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.



Custom Shafting Available!

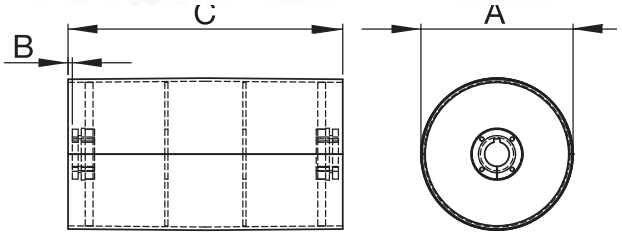
Call Martin

Drum Pulleys — Standard Duty



Martin offers Standard Duty Drum Pulleys using a minimum 1/4" rim, 3/8" end discs and 1/4" center discs. Each Standard Drum Pulley features a two piece rolled rim, which has been fabricated on either of our flat or custom crowned roll machines. The rims are trimmed and hydraulically seated around the heavy end discs to ensure maximum concentricity. Once the pulley is formed, Martin utilizes a submerged arc weldment to ensure optimum connection of its individual components.

Our trademark Standard Duty Pulley is the heaviest off the shelf CEMA grade pulley in the industry. The thicker materials used in our Standard Duty pulleys yield longer life and better resistance to wear and stress that are present in every conveying application.



FEATURES:

- 12" to 60" Diameter
- 3/8" minimum End Disc
- 1/4" minimum Center Plates
- Several Hub/Bushing systems available

OPTIONS:

- Lagging
- Shafting
- Bearing Assemblies
- Take-Up Systems

Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	CSD12012X25	12	MXT25	2-1/2	3/4	73
12	CSD12012X30	12	MXT30	3	7/8	71
12	CSD12012X35	12	MXT35	3-1/2	7/8	81
12	CSD12014X25	14	MXT25	2-1/2	3/4	78
12	CSD12014X30	14	MXT30	3	7/8	77
12	CSD12014X35	14	MXT35	3-1/2	7/8	87
12	CSD12016X25	16	MXT25	2-1/2	3/4	84
12	CSD12016X30	16	MXT30	3	7/8	82
12	CSD12016X35	18	MXT35	3-1/2	7/8	92
12	CSD12018X25	18	MXT25	2-1/2	3/4	89
12	CSD12018X30	18	MXT30	3	7/8	88
12	CSD12018X35	18	MXT35	3-1/2	7/8	97
12	CSD12020X25	20	MXT25	2-1/2	3/4	94
12	CSD12020X30	20	MXT30	3	7/8	93
12	CSD12020X35	20	MXT35	3-1/2	7/8	103
12	CSD12022X25	22	MXT25	2-1/2	3/4	100
12	CSD12022X30	22	MXT30	3	7/8	98
12	CSD12022X35	22	MXT35	3-1/2	7/8	108
12	CSD12024X25	24	MXT25	2-1/2	3/4	114
12	CSD12024X30	24	MXT30	3	7/8	104
12	CSD12024X35	24	MXT35	3-1/2	7/8	114
12	**CSD12026X25**	**26**	**MXT25**	**2-1/2**	**3/4**	**111**
12	**CSD12026X30**	**26**	**MXT30**	**3**	**7/8**	**109**
12	**CSD12026X35**	**26**	**MXT35**	**3-1/2**	**7/8**	**119**
12	CSD12028X25	28	MXT25	2-1/2	3/4	122
12	CSD12028X30	28	MXT30	3	7/8	120
12	CSD12030X25	30	MXT25	2-1/2	3/4	128
12	CSD12030X30	30	MXT30	3	7/8	126
12	CSD12030X35	30	MXT35	3-1/2	7/8	135
12	**CSD12032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**133**
12	CSD12032X30	32	MXT30	3	7/8	131
12	**CSD12032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**140**
12	CSD12032X45	32	MXT45	4-1/2	1	131
12	CSD12034X30	34	MXT30	3	7/8	136
12	CSD12036X25	36	MXT25	2-1/2	3/4	144
12	CSD12036X30	36	MXT30	3	7/8	142
12	CSD12036X35	36	MXT35	3-1/2	7/8	151

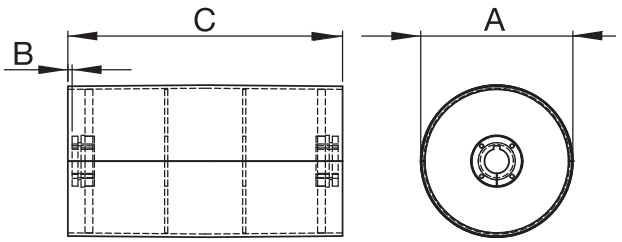
Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	**CSD12038X25**	**38**	**MXT25**	**2-1/2**	**3/4**	**149**
12	**CSD12038X30**	**38**	**MXT30**	**3**	**7/8**	**147**
12	**CSD12038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**156**
12	CSD12040X25	40	MXT25	2-1/2	3/4	161
12	CSD12040X30	40	MXT30	3	7/8	158
12	CSD12040X35	40	MXT35	3-1/2	7/8	167
12	CSD12042X25	42	MXT25	2-1/2	3/4	166
12	CSD12042X30	42	MXT30	3	7/8	163
12	CSD12042X35	42	MXT35	3-1/2	7/8	172
12	**CSD12044X25**	**44**	**MXT25**	**2-1/2**	**3/4**	**171**
12	**CSD12044X30**	**44**	**MXT30**	**3**	**7/8**	**169**
12	**CSD12044X35**	**44**	**MXT35**	**3-1/2**	**7/8**	**178**
12	CSD12046X25	46	MXT25	2-1/2	3/4	176
12	CSD12046X30	46	MXT30	3	7/8	174
12	CSD12046X35	46	MXT35	3-1/2	7/8	183
12	**CSD12051X25**	**51**	**MXT25**	**2-1/2**	**3/4**	**190**
12	**CSD12051X30**	**51**	**MXT30**	**3**	**7/8**	**187**
12	CSD12051X35	51	MXT35	3-1/2	7/8	196
12	CSD12057X25	57	MXT25	2-1/2	3/4	281
12	CSD12057X30	57	MXT30	3	7/8	279
12	CSD12057X35	57	MXT35	3	7/8	288
12	CSD12057X45	57	MXT45	4-1/2	1	276
12	CSD12063X25	63	MXT25	2-1/2	3/4	311
12	CSD12063X30	63	MXT30	3	7/8	308
12	CSD12063X40	63	MXT40	4	1	305
14	**CSD14012X25**	**63**	**MXT25**	**2-1/2**	**3/4**	**70**
14	CSD14012X30	12	MXT30	3	7/8	77
14	CSD14012X35	12	MXT35	3-1/2	7/8	76
14	CSD14012X40	12	MXT40	4	1	87
14	CSD14014X25	14	MXT25	2-1/2	3/4	76
14	CSD14014X30	14	MXT30	3	7/8	24
14	CSD14014X35	14	MXT35	3-1/2	7/8	82
14	CSD14014X40	14	MXT40	4	1	93
14	CSD14016X25	16	MXT25	2-1/2	3/4	82
14	CSD14016X30	16	MXT30	3	7/8	90
14	CSD14016X35	16	MXT35	3-1/2	7/8	89
14	CSD14016X40	18	MXT40	4	1	99

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	CSD14018X25	18	MXT25	2-1/2	3/4	88
14	CSD14018X30	18	MXT30	3	7/8	96
14	CSD14018X35	18	MXT35	3-1/2	7/8	95
14	CSD14018X40	18	MXT40	4	1	106
14	**CSD14020X25**	**20**	**MXT25**	**2-1/2**	**3/4**	**95**
14	CSD14020X30	20	MXT30	3	7/8	102
14	CSD14020X35	20	MXT35	3-1/2	7/8	101
14	CSD14020X40	20	MXT40	4	1	112
14	CSD14022X25	22	MXT25	2-1/2	3/4	101
14	CSD14022X30	22	MXT30	3	7/8	108
14	CSD14022X35	22	MXT35	3-1/2	7/8	107
14	CSD14022X40	22	MXT40	4	1	118
14	CSD14024X25	24	MXT25	2-1/2	3/4	107
14	CSD14024X30	24	MXT30	3	7/8	114
14	CSD14024X35	24	MXT35	3-1/2	7/8	113
14	CSD14024X40	24	MXT40	4	1	124
14	**CSD14026X25**	**26**	**MXT25**	**2-1/2**	**3/4**	**113**
14	CSD14026X30	26	MXT30	3	7/8	121
14	CSD14026X35	26	MXT35	3-1/2	7/8	120
14	CSD14026X40	26	MXT40	4	1	130
14	CSD14028X30	28	MXT30	3	7/8	134
14	CSD14028X35	28	MXT35	3-1/2	7/8	133
14	CSD14030X25	30	MXT25	2-1/2	3/4	134
14	CSD14030X30	30	MXT30	3	7/8	140
14	CSD14030X35	30	MXT35	3-1/2	7/8	139
14	CSD14030X40	30	MXT40	4	1	151
14	**CSD14032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**140**
14	**CSD14032X30**	**32**	**MXT30**	**3**	**7/8**	**147**
14	**CSD14032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**146**
14	CSD14032X40	32	MXT40	4	1	157
14	CSD14036X25	36	MXT25	2-1/2	3/4	153
14	CSD14036X30	36	MXT30	3	7/8	159
14	CSD14036X35	36	MXT35	3-1/2	7/8	158
14	CSD14036X40	36	MXT40	4	1	169
14	**CSD14038X25**	**38**	**MXT25**	**2-1/2**	**3/4**	**159**
14	**CSD14038X30**	**38**	**MXT30**	**3**	**7/8**	**165**
14	CSD14038X35	38	MXT35	3-1/2	7/8	164
14	CSD14038X40	38	MXT40	4	1	175
14	CSD14040X25	40	MXT25	2-1/2	3/4	174
14	CSD14040X30	40	MXT30	3	7/8	179
14	CSD14042X25	42	MXT25	2-1/2	3/4	180
14	CSD14042X30	42	MXT30	3	7/8	185
14	CSD14042X35	42	MXT35	3-1/2	7/8	174
14	CSD14042X40	42	MXT40	4	1	195
14	CSD14044X25	44	MXT25	2-1/2	3/4	186
14	**CSD14044X30**	**44**	**MXT30**	**3**	**7/8**	**191**
14	CSD14044X35	44	MXT35	3-1/2	7/8	190
14	CSD14044X40	44	MXT40	4	1	201
14	CSD14046X25	46	MXT25	2-1/2	3/4	192
14	CSD14046X30	46	MXT30	3	7/8	197
14	CSD14046X35	46	MXT35	3-1/2	7/8	196
14	CSD14046X40	46	MXT40	4	1	208
14	CSD14051X25	51	MXT25	2-1/2	3/4	208
14	**CSD14051X30**	**51**	**MXT30**	**3**	**7/8**	**212**

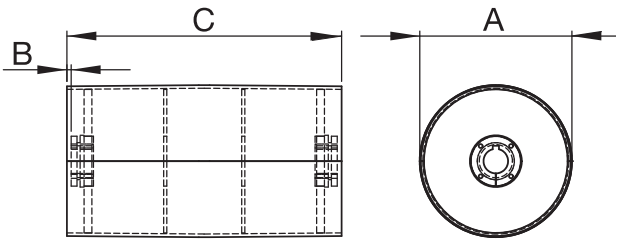
Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	CSD14051X35	51	MXT35	3-1/2	7/8	211
14	CSD14051X40	51	MXT40	4	1	223
14	CSD14051X45	51	MXT45	4-1/2	1	222
14	CSD14054X25	54	MXT25	2-1/2	3/4	299
14	CSD14054X30	54	MXT30	3	7/8	304
14	CSD14054X35	54	MXT35	3-1/2	7/8	303
14	CSD14054X40	54	MXT40	4	1	315
14	CSD14057X25	57	MXT25	2-1/2	3/4	313
14	CSD14057X30	57	MXT30	3	7/8	318
14	CSD14057X35	57	MXT35	3-1/2	7/8	317
14	CSD14057X40	57	MXT40	4	1	328
14	CSD14057X45	57	MXT45	4-1/2	1	327
14	CSD14060X25	60	MXT25	2-1/2	3/4	335
14	CSD14060X30	60	MXT30	3	7/8	339
14	CSD14060X35	60	MXT35	3-1/2	7/8	337
14	CSD14060X40	60	MXT40	4	1	350
14	CSD14063X25	63	MXT25	2-1/2	3/4	349
14	CSD14063X30	63	MXT30	3	7/8	352
14	**CSD14063X35**	**63**	**MXT35**	**3-1/2**	**7/8**	**351**
14	CSD14063X40	63	MXT40	4	1	363
14	CSD14066X25	66	MXT25	2-1/2	3/4	357
14	CSD14066X30	66	MXT25	2-1/2	3/4	361
14	CSD14066X35	66	MXT35	3-1/2	7/8	360
14	CSD14066X40	66	MXT40	4	1	372
16	CSD16012X25	12	MXT25	2-1/2	3/4	85
16	**CSD16012X30**	**12**	**MXT30**	**2-1/2**	**3/4**	**92**
16	CSD16012X35	12	MXT35	3-1/2	7/8	91
16	CSD16012X40	12	MXT40	4	1	102
16	CSD16014X25	14	MXT25	2-1/2	3/4	92
16	CSD16014X30	14	MXT30	2-1/2	3/4	99
16	CSD16014X35	14	MXT35	3-1/2	7/8	98
16	CSD16014X40	14	MXT40	4	1	109
16	CSD16016X25	16	MXT25	2-1/2	3/4	99
16	CSD16016X30	16	MXT30	2-1/2	3/4	106
16	CSD16016X35	16	MXT35	3-1/2	7/8	105
16	CSD16016X40	16	MXT40	4	1	116
16	CSD16018X25	18	MXT25	2-1/2	3/4	106
16	CSD16018X30	18	MXT30	2-1/2	3/4	114
16	CSD16018X35	18	MXT35	3-1/2	7/8	112
16	CSD16018X40	18	MXT40	4	1	123
16	**CSD16020X25**	**20**	**MXT25**	**2-1/2**	**3/4**	**113**
16	CSD16020X30	20	MXT30	2-1/2	3/4	121
16	CSD16020X35	20	MXT35	3-1/2	7/8	120
16	CSD16020X40	20	MXT40	4	1	130
16	CSD16022X25	22	MXT25	2-1/2	3/4	120
16	CSD16022X30	22	MXT30	2-1/2	3/4	128
16	CSD16022X35	22	MXT35	3-1/2	7/8	127
16	CSD16022X40	22	MXT40	4	1	137
16	**CSD16024X25**	**24**	**MXT25**	**2-1/2**	**3/4**	**127**
16	CSD16024X30	24	MXT30	2-1/2	3/4	135
16	CSD16024X35	24	MXT35	3-1/2	7/8	134
16	CSD16024X40	24	MXT40	4	1	144
16	**CSD16026X25**	**26**	**MXT25**	**2-1/2**	**3/4**	**134**
16	**CSD16026X30**	**26**	**MXT30**	**2-1/2**	**3/4**	**142**

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	**CSD16026X35**	**26**	**MXT35**	**3-1/2**	**7/8**	**141**
16	CSD16026X40	26	MXT40	4	1	151
16	CSD16026X50	26	MXT50	5	1	163
16	CSD16028X25	28	MXT25	2-1/2	3/4	153
16	CSD16028X30	28	MXT30	2-1/2	3/4	160
16	CSD16028X35	28	MXT35	3-1/2	7/8	158
16	CSD16030X25	30	MXT25	2-1/2	3/4	160
16	CSD16030X30	30	MXT30	2-1/2	3/4	167
16	CSD16030X35	30	MXT35	3-1/2	7/8	165
16	CSD16030X40	30	MXT40	4	1	175
16	**CSD16032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**167**
16	**CSD16032X30**	**32**	**MXT30**	**2-1/2**	**3/4**	**174**
16	**CSD16032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**173**
16	**CSD16032X40**	**32**	**MXT40**	**4**	**1**	**182**
16	CSD16032X45	32	MXT45	4-1/2	1	182
16	CSD16032X50	32	MXT50	5	1	193
16	CSD16032X60	32	MXT60	6	1-1/8	211
16	CSD16034X35	34	MXT35	3-1/2	7/8	180
16	CSD16034X40	34	MXT40	4	1	189
16	CSD16036X25	36	MXT25	2-1/2	3/4	182
16	CSD16036X30	36	MXT30	2-1/2	3/4	188
16	CSD16036X35	36	MXT35	3-1/2	7/8	187
16	CSD16036X40	36	MXT40	4	1	196
16	**CSD16038X25**	**38**	**MXT25**	**2-1/2**	**3/4**	**184**
16	**CSD16038X30**	**38**	**MXT30**	**2-1/2**	**3/4**	**195**
16	**CSD16038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**194**
16	CSD16038X40	38	MXT40	4	1	203
16	CSD16038X50	38	MXT50	5	1	215
16	CSD16040X25	40	MXT25	2-1/2	3/4	207
16	CSD16040X30	40	MXT30	2-1/2	3/4	212
16	CSD16040X35	40	MXT35	3-1/2	7/8	211
16	CSD16040X40	40	MXT40	4	1	220
16	CSD16040X45	40	MXT45	4-1/2	1	220
16	CSD16040X50	40	MXT50	5	1	231
16	CSD16042X25	42	MXT25	2-1/2	3/4	215
16	CSD16042X30	42	MXT30	2-1/2	3/4	219
16	CSD16042X35	42	MXT35	3-1/2	7/8	218
16	CSD16042X40	42	MXT40	4	1	227
16	CSD16044X25	44	MXT25	2-1/2	3/4	222
16	**CSD16044X30**	**44**	**MXT30**	**3**	**7/8**	**226**
16	**CSD16044X35**	**44**	**MXT35**	**3-1/2**	**7/8**	**225**
16	**CSD16044X40**	**44**	**MXT40**	**4**	**1**	**234**
16	CSD16046X25	46	MXT25	2-1/2	3/4	229
16	CSD16046X30	46	MXT30	3	7/8	233
16	CSD16046X35	46	MXT35	3-1/2	7/8	232
16	CSD16046X40	46	MXT40	4	1	241
16	CSD16051X25	51	MXT25	2-1/2	3/4	291
16	CSD16051X30	51	MXT30	3	7/8	295
16	**CSD16051X35**	**51**	**MXT35**	**3-1/2**	**7/8**	**294**
16	CSD16051X40	51	MXT40	4	1	303
16	CSD16051X50	51	MXT50	5	1	314
16	CSD16054X25	54	MXT25	2-1/2	3/4	304
16	CSD16054X30	54	MXT30	3	7/8	309
16	CSD16054X35	54	MXT35	3-1/2	7/8	307

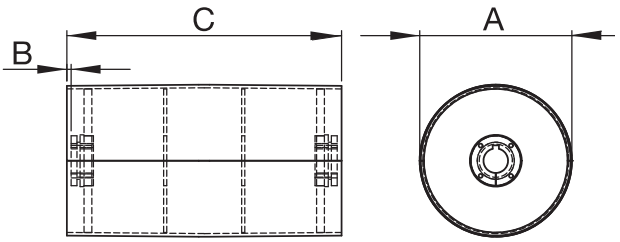
Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	CSD16054X40	54	MXT40	4	1	316
16	CSD16057X30	57	MXT30	3	7/8	322
16	CSD16057X35	57	MXT35	3-1/2	7/8	321
16	CSD16057X40	57	MXT40	4	1	329
16	CSD16057X45	57	MXT45	4-1/2	1	329
16	CSD16060X25	60	MXT25	2-1/2	3/4	342
16	CSD16060X30	60	MXT30	3	7/8	345
16	CSD16060X35	60	MXT35	3-1/2	7/8	344
16	CSD16060X40	60	MXT40	4	1	351
16	CSD16063X25	63	MXT25	2-1/2	3/4	355
16	CSD16063X30	63	MXT30	3	7/8	358
16	CSD16063X35	63	MXT35	3-1/2	7/8	357
16	CSD16063X40	63	MXT40	4	1	365
16	CSD16063X45	63	MXT45	4-1/2	1	365
16	CSD16063X50	63	MXT50	5	1	376
16	CSD16066X25	66	MXT25	2-1/2	3/4	416
16	CSD16066X30	66	MXT30	3	7/8	421
16	CSD16066X35	66	MXT35	3-1/2	7/8	420
16	CSD16066X40	66	MXT40	4	1	429
18	CSD18012X25	12	MXT25	2-1/2	3/4	101
18	CSD18012X30	12	MXT30	3	7/8	109
18	CSD18012X35	12	MXT35	3-1/2	7/8	107
18	CSD18012X40	12	MXT40	4	1	118
18	CSD18014X25	14	MXT25	2-1/2	3/4	109
18	CSD18014X30	14	MXT30	3	7/8	117
18	CSD18014X35	14	MXT35	3-1/2	7/8	116
18	CSD18014X40	14	MXT40	4	1	126
18	CSD18014X45	14	MXT45	4-1/2	1	140
18	CSD18016X25	16	MXT25	2-1/2	3/4	117
18	CSD18016X30	16	MXT30	3	7/8	125
18	CSD18016X35	16	MXT35	3-1/2	7/8	124
18	CSD18016X40	16	MXT40	4	1	134
18	CSD18016X45	16	MXT45	4-1/2	1	14
18	CSD18018X25	16	MXT25	2-1/2	3/4	125
18	CSD18018X30	18	MXT30	3	7/8	133
18	CSD18018X35	18	MXT35	3-1/2	7/8	131
18	CSD18018X40	18	MXT40	4	1	142
18	CSD18018X45	18	MXT45	4-1/2	1	155
18	CSD18020X25	16	MXT25	2-1/2	3/4	133
18	CSD18020X30	16	MXT30	2-1/2	3/4	140
18	CSD18020X35	20	MXT35	3-1/2	7/8	139
18	CSD18020X40	20	MXT40	4	1	150
18	CSD18020X45	20	MXT45	4-1/2	1	163
18	CSD18022X25	22	MXT25	2-1/2	3/4	141
18	CSD18022X30	22	MXT30	3	7/8	148
18	CSD18022X35	22	MXT35	3-1/2	7/8	147
18	CSD18022X40	22	MXT40	4	1	158
18	CSD18022X45	22	MXT45	4-1/2	1	171
18	CSD18024X25	24	MXT25	2-1/2	3/4	149
18	CSD18024X30	24	MXT30	3	7/8	156
18	CSD18024X35	24	MXT35	3-1/2	7/8	155
18	CSD18024X40	24	MXT40	4	1	166
18	CSD18024X45	24	MXT45	4-1/2	1	179
18	**CSD18026X25**	**26**	**MXT25**	**2-1/2**	**3/4**	**157**

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	**CSD18026X30**	**26**	**MXT30**	**3**	**7/8**	**164**
18	**CSD18026X35**	**26**	**MXT35**	**3-1/2**	**7/8**	**163**
18	CSD18026X40	26	MXT40	4	1	174
18	CSD18026X45	26	MXT45	4-1/2	1	187
18	CSD18026X50	26	MXT50	5	1	197
18	CSD18028X25	28	MXT25	2-1/2	3/4	180
18	CSD18028X30	28	MXT30	3	7/8	187
18	CSD18028X35	28	MXT35	3-1/2	7/8	185
18	CSD18028X40	28	MXT40	4	1	195
18	CSD18030X25	30	MXT25	2-1/2	3/4	188
18	CSD18030X30	30	MXT30	3	7/8	194
18	CSD18030X35	30	MXT35	3-1/2	7/8	193
18	CSD18030X40	30	MXT40	4	1	203
18	CSD18030X45	30	MXT45	4-1/2	1	216
18	**CSD18032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**196**
18	**CSD18032X30**	**32**	**MXT30**	**3**	**7/8**	**202**
18	CSD18032X35	32	MXT35	3-1/2	7/8	201
18	**CSD18032X40**	**32**	**MXT40**	**4**	**1**	**211**
18	CSD18032X45	32	MXT45	4-1/2	1	224
18	CSD18032X50	32	MXT50	5	1	233
18	CSD18034X35	34	MXT35	3-1/2	7/8	209
18	CSD18036X25	36	MXT25	2-1/2	3/4	212
18	CSD18036X30	36	MXT30	3	7/8	218
18	CSD18036X35	36	MXT35	3-1/2	7/8	217
18	CSD18036X40	36	MXT40	4	1	227
18	CSD18036X45	36	MXT45	4-1/2	1	240
18	CSD18036X50	36	MXT50	5	1	248
18	**CSD18038X25**	**38**	**MXT25**	**2-1/2**	**3/4**	**220**
18	**CSD18038X30**	**38**	**MXT30**	**3**	**7/8**	**226**
18	**CSD18038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**225**
18	**CSD18038X40**	**38**	**MXT40**	**4**	**1**	**235**
18	CSD18038X45	38	MXT45	4-1/2	1	248
18	CSD18038X50	38	MXT50	5	1	256
18	CSD18040X25	40	MXT25	2-1/2	3/4	243
18	CSD18040X30	40	MXT30	3	7/8	248
18	CSD18040X35	40	MXT35	3-1/2	7/8	247
18	CSD18040X40	40	MXT40	4	1	256
18	CSD18040X45	40	MXT45	4-1/2	1	269
18	CSD18040X50	40	MXT50	5	1	276
18	CSD18042X25	42	MXT25	2-1/2	3/4	251
18	CSD18042X30	42	MXT30	3	7/8	256
18	CSD18042X35	42	MXT35	3-1/2	7/8	255
18	CSD18042X40	42	MXT40	4	1	269
18	CSD18042X45	42	MXT45	4-1/2	1	277
18	CSD18044X25	44	MXT25	2-1/2	3/4	259
18	CSD18044X30	44	MXT30	3	7/8	264
18	CSD18044X35	44	MXT35	3-1/2	7/8	263
18	**CSD18044X40**	**44**	**MXT40**	**4**	**1**	**271**
18	CSD18044X45	44	MXT45	4-1/2	1	285
18	CSD18044X50	44	MXT50	5	1	292
18	CSD18044X60	44	MXT60	6	1-1/8	308
18	CSD18046X25	46	MXT25	2-1/2	3/4	312
18	CSD18046X30	46	MXT30	3	7/8	317
18	CSD18046X35	46	MXT35	3-1/2	7/8	316

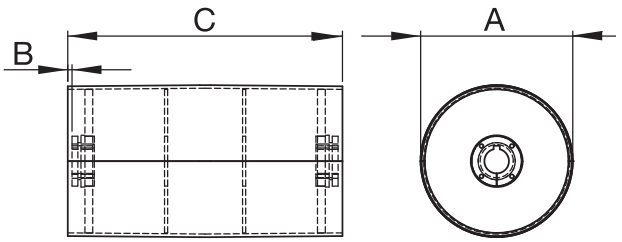
Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CSD18046X40	46	MXT40	4	1	324
18	CSD18046X45	46	MXT45	4-1/2	1	337
18	CSD18051X25	51	MXT25	2-1/2	3/4	337
18	CSD18051X30	51	MXT30	3	7/8	342
18	**CSD18051X35**	**51**	**MXT35**	**3-1/2**	**7/8**	**341**
18	CSD18051X40	51	MXT40	4	1	349
18	**CSD18051X45**	**51**	**MXT45**	**4-1/2**	**1**	**362**
18	CSD18051X50	51	MXT50	5	1	369
18	CSD18051X60	51	MXT60	6	1-1/8	385
18	CSD18054X25	54	MXT25	2-1/2	3/4	352
18	CSD18054X30	54	MXT30	3	7/8	356
18	CSD18054X35	54	MXT35	3-1/2	7/8	355
18	CSD18054X40	54	MXT40	4	1	364
18	CSD18054X45	54	MXT45	4-1/2	1	377
18	CSD18054X50	54	MXT50	5	1	384
18	CSD18057X25	57	MXT25	2-1/2	3/4	367
18	CSD18057X30	57	MXT30	3	7/8	371
18	CSD18057X35	57	MXT35	3-1/2	7/8	370
18	CSD18057X40	57	MXT40	4	1	379
18	CSD18057X45	57	MXT45	4-1/2	1	391
18	CSD18057X50	57	MXT50	5	1	398
18	CSD18057X60	57	MXT60	6	1-1/8	415
18	CSD18060X25	60	MXT25	2-1/2	3/4	396
18	CSD18060X30	60	MXT30	3	7/8	400
18	CSD18060X35	60	MXT35	3-1/2	7/8	399
18	CSD18060X40	60	MXT40	4	1	406
18	CSD18060X45	60	MXT45	4-1/2	1	419
18	CSD18063X25	63	MXT25	2-1/2	3/4	411
18	CSD18063X30	63	MXT30	3	7/8	415
18	CSD18063X35	63	MXT35	3-1/2	7/8	414
18	CSD18063X40	63	MXT40	4	1	421
18	CSD18063X45	63	MXT45	4-1/2	1	434
18	CSD18063X50	63	MXT50	5	1	439
18	CSD18063X60	63	MXT60	6	1-1/8	455
18	CSD18063X70	63	MXT70	7	1-1/4	478
18	CSD18066X25	66	MXT25	2-1/2	3/4	509
18	CSD18066X30	66	MXT30	3	7/8	511
18	CSD18066X35	66	MXT35	3-1/2	7/8	510
18	CSD18066X40	66	MXT40	4	1	516
18	CSD18066X45	66	MXT45	4-1/2	1	529
20	CSD20010X25	10	MXT25	2-1/2	3/4	110
20	CSD20012X25	12	MXT25	2-1/2	3/4	119
20	CSD20012X30	12	MXT30	3	7/8	126
20	CSD20012X35	12	MXT35	3-1/2	7/8	125
20	CSD20012X40	12	MXT40	4	1	136
20	CSD20014X25	14	MXT25	2-1/2	3/4	128
20	CSD20014X30	14	MXT30	3	7/8	135
20	CSD20014X35	14	MXT35	3-1/2	7/8	134
20	CSD20014X40	14	MXT40	4	1	145
20	CSD20014X45	14	MXT45	4-1/2	1	162
20	CSD20016X25	16	MXT25	2-1/2	3/4	137
20	CSD20016X30	16	MXT30	3	7/8	144
20	CSD20016X35	16	MXT35	3-1/2	7/8	143
20	CSD20016X40	16	MXT40	4	1	154

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CSD20016X45	16	MXT45	4-1/2	1	171
20	CSD20018X25	18	MXT25	2-1/2	3/4	145
20	CSD20018X30	18	MXT30	3	7/8	153
20	CSD20018X35	18	MXT35	3-1/2	7/8	152
20	CSD20018X40	18	MXT40	4	1	163
20	CSD20018X45	18	MXT45	4-1/2	1	180
20	CSD20020X25	20	MXT25	2-1/2	3/4	154
20	CSD20020X30	20	MXT30	3	7/8	162
20	CSD20020X35	20	MXT35	3-1/2	7/8	161
20	CSD20020X40	20	MXT40	4	1	171
20	CSD20020X45	20	MXT45	4-1/2	1	189
20	CSD20022X25	22	MXT25	2-1/2	3/4	163
20	CSD20022X30	22	MXT30	3	7/8	171
20	CSD20022X35	22	MXT35	3-1/2	7/8	169
20	CSD20022X40	22	MXT40	4	1	180
20	CSD20022X45	22	MXT45	4-1/2	1	198
20	CSD20024X25	24	MXT25	2-1/2	3/4	172
20	CSD20024X30	24	MXT30	3	7/8	179
20	CSD20024X35	24	MXT35	3-1/2	7/8	178
20	CSD20024X40	24	MXT40	4	1	189
20	CSD20024X45	24	MXT45	4-1/2	1	206
20	**CSD20026X25**	**26**	**MXT25**	**2-1/2**	**3/4**	**181**
20	**CSD20026X30**	**26**	**MXT30**	**3**	**7/8**	**188**
20	**CSD20026X35**	**26**	**MXT35**	**3-1/2**	**7/8**	**187**
20	CSD20026X40	26	MXT40	4	1	198
20	CSD20026X45	26	MXT45	4-1/2	1	215
20	CSD20026X50	26	MXT50	5	1	225
20	CSD20028X25	28	MXT25	2-1/2	3/4	209
20	CSD20028X30	28	MXT30	3	7/8	215
20	CSD20028X35	28	MXT35	3-1/2	7/8	214
20	CSD20028X40	28	MXT40	4	1	229
20	CSD20028X50	28	MXT50	5	1	250
20	CSD20030X25	30	MXT25	2-1/2	3/4	218
20	CSD20030X30	30	MXT30	3	7/8	224
20	CSD20030X35	30	MXT35	3-1/2	7/8	223
20	CSD20030X40	30	MXT40	4	1	233
20	CSD20030X45	30	MXT45	4-1/2	1	250
20	**CSD20032X25**	**32**	**MXT25**	**2-1/2**	**3/4**	**227**
20	**CSD20032X30**	**32**	**MXT30**	**3**	**7/8**	**233**
20	**CSD20032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**232**
20	**CSD20032X40**	**32**	**MXT40**	**4**	**1**	**242**
20	CSD20032X45	32	MXT45	4-1/2	1	259
20	CSD20032X50	32	MXT50	5	1	267
20	CSD20034X25	34	MXT25	2-1/2	3/4	236
20	CSD20034X35	34	MXT35	3-1/2	7/8	241
20	CSD20034X40	34	MXT40	4	1	250
20	CSD20034X45	34	MXT45	4-1/2	1	268
20	CSD20036X25	36	MXT25	2-1/2	3/4	244
20	CSD20036X30	36	MXT30	3	7/8	251
20	CSD20036X35	36	MXT35	3-1/2	7/8	250
20	CSD20036X40	36	MXT40	4	1	259
20	CSD20036X45	36	MXT45	4-1/2	1	276
20	CSD20036X70	36	MXT70	7	1-1/4	326
20	**CSD20038X25**	**38**	**MXT25**	**2-1/2**	**3/4**	**253**

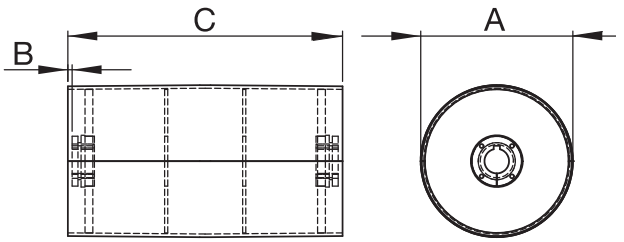
Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	**CSD20038X30**	**38**	**MXT30**	**3**	**7/8**	**259**
20	**CSD20038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**258**
20	**CSD20038X40**	**38**	**MXT40**	**4**	**1**	**268**
20	CSD20038X45	38	MXT45	4-1/2	1	285
20	CSD20038X50	38	MXT50	5	1	294
20	CSD20038X60	38	MXT60	6	1-1/8	308
20	CSD20040X25	40	MXT25	2-1/2	3/4	282
20	CSD20040X30	40	MXT30	3	7/8	286
20	CSD20040X35	40	MXT35	3-1/2	7/8	285
20	CSD20040X40	40	MXT40	4	1	294
20	CSD20040X45	40	MXT45	4-1/2	1	311
20	CSD20040X50	40	MXT50	5	1	318
20	CSD20042X30	42	MXT30	3	7/8	295
20	CSD20042X35	42	MXT35	3-1/2	7/8	294
20	CSD20042X40	42	MXT40	4	1	303
20	CSD20042X45	42	MXT45	4-1/2	1	320
20	CSD20044X30	44	MXT30	3	7/8	304
20	CSD20044X35	44	MXT35	3-1/2	7/8	303
20	**CSD20044X40**	**44**	**MXT40**	**4**	**1**	**311**
20	CSD20044X45	44	MXT45	4-1/2	1	329
20	CSD20046X30	46	MXT30	3	7/8	363
20	CSD20046X35	46	MXT35	3-1/2	7/8	362
20	CSD20046X40	46	MXT40	4	1	370
20	CSD20046X50	46	MXT50	5	1	394
20	CSD20051X25	51	MXT25	2-1/2	3/4	385
20	CSD20051X30	51	MXT30	3	7/8	390
20	CSD20051X35	51	MXT35	3-1/2	7/8	389
20	CSD20051X40	51	MXT40	4	1	398
20	**CSD20051X45**	**51**	**MXT45**	**4-1/2**	**1**	**414**
20	CSD20051X50	51	MXT50	5	1	421
20	CSD20054X30	54	MXT30	3	7/8	407
20	CSD20054X35	54	MXT35	3-1/2	7/8	406
20	CSD20054X40	54	MXT40	4	1	414
20	CSD20054X45	54	MXT45	4-1/2	1	431
20	CSD20054X50	54	MXT50	5	1	438
20	CSD20057X25	57	MXT25	2-1/2	3/4	418
20	CSD20057X30	57	MXT30	3	7/8	423
20	CSD20057X35	57	MXT35	3-1/2	7/8	422
20	CSD20057X40	57	MXT40	4	1	431
20	**CSD20057X45**	**57**	**MXT45**	**4-1/2**	**1**	**447**
20	CSD20057X50	57	MXT50	5	1	454
20	CSD20060X30	60	MXT30	3	7/8	457
20	CSD20060X35	60	MXT35	3-1/2	7/8	456
20	CSD20060X40	60	MXT40	4	1	464
20	CSD20060X45	60	MXT45	4-1/2	1	480
20	CSD20060X50	60	MXT50	5	1	486
20	CSD20063X25	63	MXT25	2-1/2	3/4	470
20	CSD20063X30	63	MXT30	3	7/8	474
20	CSD20063X35	63	MXT35	3-1/2	7/8	473
20	CSD20063X40	63	MXT40	4	1	480
20	CSD20063X45	63	MXT45	4-1/2	1	498
20	CSD20063X50	63	MXT50	5	1	502
20	CSD20063X60	63	MXT60	6	1-1/8	513
20	CSD20063X70	63	MXT70	7	1-1/4	542

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CSD20066X30	66	MXT30	3	7/8	584
20	CSD20066X35	66	MXT35	3-1/2	7/8	582
20	CSD20066X40	66	MXT40	4	1	589
20	CSD20066X45	66	MXT45	4-1/2	1	605
20	CSD20066X70	66	MXT70	7	1-1/4	646
20	CSD20076X40	76	MXT40	4	1	655
20	CSD20076X45	76	MXT45	4-1/2	1	672
20	CSD20087X35	87	MXT35	3-1/2	7/8	723
20	CSD20087X45	87	MXT45	4-1/2	1	746
24	**CSD24012X30**	**12**	**MXT30**	**3**	**7/8**	**194**
24	**CSD24012X35**	**12**	**MXT35**	**3-1/2**	**7/8**	**192**
24	CSD24012X40	12	MXT40	4	1	202
24	**CSD24014X30**	**14**	**MXT30**	**3**	**7/8**	**204**
24	**CSD24014X35**	**14**	**MXT35**	**3-1/2**	**7/8**	**203**
24	CSD24014X40	14	MXT40	4	1	213
24	CSD24014X45	14	MXT45	4-1/2	1	213
24	**CSD24016X30**	**16**	**MXT30**	**3**	**7/8**	**215**
24	CSD24016X35	16	MXT35	3-1/2	7/8	214
24	CSD24016X40	16	MXT40	4	1	223
24	CSD24016X45	16	MXT45	4-1/2	1	224
24	CSD24016X50	16	MXT50	5	1	233
24	CSD24018X30	18	MXT30	3	7/8	225
24	CSD24018X35	18	MXT35	3-1/2	7/8	224
24	CSD24018X40	18	MXT40	4	1	234
24	CSD24018X45	18	MXT45	4-1/2	1	234
24	CSD24018X50	18	MXT50	5	1	244
24	**CSD24020X30**	**20**	**MXT30**	**3**	**7/8**	**236**
24	CSD24020X35	20	MXT35	3-1/2	7/8	235
24	CSD24020X40	20	MXT40	4	1	245
24	CSD24020X45	20	MXT45	4-1/2	1	245
24	CSD24020X50	20	MXT50	5	1	255
24	CSD24022X30	22	MXT30	3	7/8	247
24	CSD24022X35	22	MXT35	3-1/2	7/8	246
24	CSD24022X40	22	MXT40	4	1	255
24	CSD24022X45	22	MXT45	4-1/2	1	255
24	CSD24022X50	22	MXT50	5	1	265
24	CSD24024X30	24	MXT30	3	7/8	257
24	CSD24024X35	24	MXT35	3-1/2	7/8	256
24	CSD24024X40	24	MXT40	4	1	266
24	CSD24024X45	24	MXT45	4-1/2	1	266
24	CSD24024X50	24	MXT50	5	1	276
24	CSD24026X25	26	MXT25	2-1/2	3/4	262
24	**CSD24026X30**	**26**	**MXT30**	**3**	**7/8**	**268**
24	**CSD24026X35**	**26**	**MXT35**	**3-1/2**	**7/8**	**267**
24	**CSD24026X40**	**26**	**MXT40**	**4**	**1**	**276**
24	CSD24026X45	26	MXT45	4-1/2	1	276
24	CSD24026X50	26	MXT50	5	1	286
24	CSD24028X25	28	MXT25	2-1/2	3/4	301
24	CSD24028X30	28	MXT30	3	7/8	306
24	CSD24028X40	28	MXT40	4	1	314
24	CSD24028X50	28	MXT50	5	1	322
24	CSD24028X60	28	MXT60	6	1-1/8	337
24	CSD24030X30	30	MXT30	3	7/8	317
24	CSD24030X35	30	MXT35	3-1/2	7/8	316

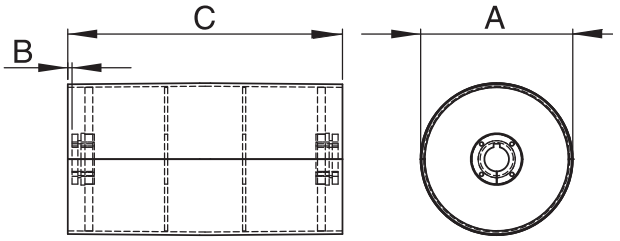
Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CSD24030X40	30	MXT40	4	1	324
24	CSD24030X45	30	MXT45	4-1/2	1	324
24	CSD24030X50	30	MXT50	5	1	333
24	CSD24032X25	32	MXT25	2-1/2	3/4	343
24	**CSD24032X30**	**32**	**MXT30**	**3**	**7/8**	**327**
24	**CSD24032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**326**
24	**CSD24032X40**	**32**	**MXT40**	**4**	**1**	**335**
24	CSD24032X45	32	MXT45	4-1/2	1	335
24	CSD24032X50	32	MXT50	5	1	343
24	CSD24032X70	32	MXT70	7	1-1/4	385
24	CSD24032X80	32	MXT80	8	1-1/2	424
24	CSD24034X30	34	MXT30	3	7/8	338
24	CSD24034X45	34	MXT45	4-1/2	1	345
24	CSD24036X30	36	MXT30	3	7/8	348
24	CSD24036X35	36	MXT35	3-1/2	7/8	347
24	CSD24036X40	36	MXT40	4	1	356
24	CSD24036X45	36	MXT45	4-1/2	1	356
24	CSD24036X50	36	MXT50	5	1	364
24	CSD24036X60	36	MXT60	6	1-1/8	378
24	CSD24038X25	38	MXT25	2-1/2	3/4	354
24	**CSD24038X30**	**38**	**MXT30**	**3**	**7/8**	**359**
24	**CSD24038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**358**
24	**CSD24038X40**	**38**	**MXT40**	**4**	**1**	**366**
24	**CSD24038X45**	**38**	**MXT45**	**4-1/2**	**1**	**366**
24	CSD24038X50	38	MXT50	5	1	375
24	CSD24038X60	38	MXT60	6	1-1/8	390
24	CSD24038X70	38	MXT70	7	1-1/4	416
24	CSD24040X25	40	MXT25	2-1/2	3/4	394
24	CSD24040X30	40	MXT30	3	7/8	397
24	CSD24040X35	40	MXT35	3-1/2	7/8	396
24	CSD24040X40	40	MXT40	4	1	403
24	CSD24040X45	40	MXT45	4-1/2	1	409
24	CSD24040X50	40	MXT50	5	1	411
24	CSD24040X60	40	MXT60	6	1-1/8	423
24	CSD24040X70	40	MXT70	7	1-1/4	447
24	CSD24042X30	42	MXT30	3	7/8	408
24	CSD24042X35	42	MXT35	3-1/2	7/8	407
24	CSD24042X40	42	MXT40	4	1	414
24	CSD24042X45	42	MXT45	4-1/2	1	414
24	CSD24042X50	42	MXT50	5	1	421
24	CSD24044X25	44	MXT25	2-1/2	3/4	415
24	CSD24044X30	44	MXT30	3	7/8	418
24	CSD24044X35	44	MXT35	3-1/2	7/8	417
24	**CSD24044X40**	**44**	**MXT40**	**4**	**1**	**424**
24	CSD24044X45	44	MXT45	4-1/2	1	425
24	CSD24044X50	44	MXT50	5	1	432
24	CSD24044X60	44	MXT60	6	1-1/8	444
24	CSD24044X70	44	MXT70	7	1-1/4	468
24	CSD24044X80	44	MXT80	8	1-1/2	505
24	CSD24046X30	46	MXT30	3	7/8	488
24	CSD24046X35	46	MXT35	3-1/2	7/8	487
24	CSD24046X40	46	MXT40	4	1	494
24	CSD24046X45	46	MXT45	4-1/2	1	495
24	CSD24046X50	46	MXT50	5	1	502

* General position for bushing face - for position per application consult Martin.

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Drum Pulleys — Standard Duty



Standard Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CSD24046X60	46	MXT60	6	1-1/8	514
24	CSD24046X70	46	MXT70	7	1-1/4	538
24	CSD24051X25	51	MXT25	2-1/2	3/4	518
24	CSD24051X30	51	MXT30	3	7/8	521
24	CSD24051X35	51	MXT35	3-1/2	7/8	520
24	CSD24051X40	51	MXT40	4	1	527
24	**CSD24051X45**	**51**	**MXT45**	**4-1/2**	**1**	**528**
24	CSD24051X50	51	MXT50	5	1	535
24	CSD24051X60	51	MXT60	6	1-1/8	547
24	CSD24051X70	51	MXT70	7	1-1/4	571
24	CSD24054X25	54	MXT25	2-1/2	3/4	537
24	CSD24054X30	54	MXT30	3	7/8	541
24	CSD24054X35	54	MXT35	3-1/2	7/8	540
24	CSD24054X40	54	MXT40	4	1	547
24	CSD24054X45	54	MXT45	4-1/2	1	547
24	CSD24054X50	54	MXT50	5	1	554
24	CSD24054X60	54	MXT60	6	1-1/8	567
24	CSD24054X70	54	MXT70	7	1-1/4	591
24	CSD24057X25	57	MXT25	2-1/2	3/4	557
24	CSD24057X30	57	MXT30	3	7/8	561
24	CSD24057X35	57	MXT35	3-1/2	7/8	560
24	CSD24057X40	57	MXT40	4	1	567
24	CSD24057X45	57	MXT45	4-1/2	1	567
24	CSD24057X50	57	MXT50	5	1	574
24	CSD24057X60	57	MXT60	6	1-1/8	587
24	CSD24057X70	57	MXT70	7	1-1/4	611
24	CSD24057X80	57	MXT80	8	1-1/2	648
24	CSD24060X30	60	MXT30	3	7/8	608
24	CSD24060X35	60	MXT35	3-1/2	7/8	607
24	CSD24060X40	60	MXT40	4	1	613
24	CSD24060X45	60	MXT45	4-1/2	1	613
24	CSD24060X50	60	MXT50	5	1	618
24	CSD24063X25	63	MXT25	2-1/2	3/4	625
24	CSD24063X30	63	MXT30	3	7/8	627
24	CSD24063X35	63	MXT35	3-1/2	7/8	626
24	CSD24063X40	63	MXT40	4	1	633
24	CSD24063X45	63	MXT45	4-1/2	1	633
24	CSD24063X50	63	MXT50	5	1	638
24	CSD24063X60	63	MXT60	6	1-1/8	649
24	CSD24063X70	63	MXT70	7	1-1/4	670
24	CSD24063X80	63	MXT80	8	1-1/2	704
24	CSD24066X30	66	MXT30	3	7/8	765
24	CSD24066X35	66	MXT35	3-1/2	7/8	764
24	CSD24066X40	66	MXT40	4	1	769
24	CSD24066X45	66	MXT45	4-1/2	1	769
24	CSD24066X50	66	MXT50	5	1	773
24	CSD24066X60	66	MXT60	6	1-1/8	782
24	CSD24066X70	66	MXT70	7	1-1/4	800
24	CSD24076X45	76	MXT45	4-1/2	1	849
24	CSD24087X45	87	MXT45	4-1/2	1	937
30	CSD30012X30	12	MXT30	3	7/8	317
30	CSD30012X35	12	MXT35	3-1/2	7/8	316
30	CSD30012X40	12	MXT40	4	1	325
30	CSD30014X30	14	MXT30	3	7/8	315

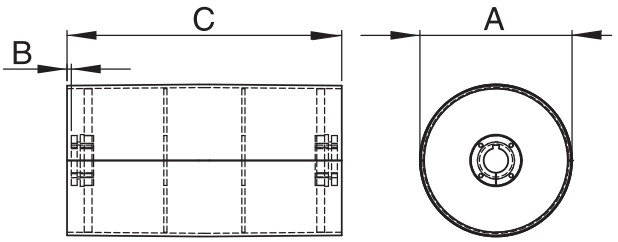
Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
30	CSD30014X35	14	MXT35	3-1/2	7/8	314
30	CSD30014X40	14	MXT40	4	1	324
30	CSD30016X30	16	MXT30	3	7/8	332
30	CSD30016X35	16	MXT35	3-1/2	7/8	331
30	CSD30016X40	16	MXT40	4	1	340
30	CSD30016X45	16	MXT45	4-1/2	1	341
30	CSD30016X50	16	MXT50	5	1	436
30	CSD30018X30	18	MXT30	3	7/8	348
30	CSD30018X35	18	MXT35	3-1/2	7/8	347
30	CSD30018X40	18	MXT40	4	1	357
30	CSD30018X45	18	MXT45	4-1/2	1	357
30	CSD30018X50	18	MXT50	5	1	452
30	CSD30020X30	20	MXT30	3	7/8	365
30	CSD30020X35	20	MXT35	3-1/2	7/8	369
30	CSD30020X40	20	MXT40	4	1	374
30	CSD30020X45	20	MXT45	4-1/2	1	374
30	CSD30020X50	20	MXT50	5	1	469
30	CSD30022X30	22	MXT30	3	7/8	382
30	CSD30022X35	22	MXT35	3-1/2	7/8	381
30	CSD30022X40	22	MXT40	4	1	390
30	CSD30022X45	22	MXT45	4-1/2	1	390
30	CSD30022X50	22	MXT50	5	1	485
30	CSD30024X30	24	MXT30	3	7/8	398
30	CSD30024X35	24	MXT35	3-1/2	7/8	397
30	CSD30024X40	24	MXT40	4	1	407
30	CSD30024X45	24	MXT45	4-1/2	1	407
30	CSD30024X50	24	MXT50	5	1	502
30	CSD30026X30	26	MXT30	3	7/8	415
30	CSD30026X35	26	MXT35	3-1/2	7/8	414
30	CSD30026X40	26	MXT40	4	1	423
30	CSD30026X45	26	MXT45	4-1/2	1	423
30	CSD30026X50	26	MXT50	5	1	518
30	CSD30030X30	30	MXT30	3	7/8	493
30	CSD30030X35	30	MXT35	3-1/2	7/8	492
30	CSD30030X40	30	MXT40	4	1	500
30	CSD30030X45	30	MXT45	4-1/2	1	500
30	CSD30030X50	30	MXT50	5	1	594
30	CSD30032X30	32	MXT30	3	7/8	509
30	CSD30032X35	32	MXT35	3-1/2	7/8	508
30	CSD30032X40	32	MXT40	4	1	617
30	CSD30032X45	32	MXT45	4-1/2	1	517
30	CSD30032X50	32	MXT50	5	1	610
30	CSD30036X30	36	MXT30	3	7/8	542
30	CSD30036X35	36	MXT35	3-1/2	7/8	541
30	CSD30036X40	36	MXT40	4	1	550
30	CSD30036X45	36	MXT45	4-1/2	1	550
30	CSD30036X50	36	MXT50	5	1	643
30	CSD30036X60	36	MXT60	6	1-1/8	654
30	CSD30038X30	38	MXT30	3	7/8	559
30	CSD30038X35	38	MXT35	3-1/2	7/8	558
30	CSD30038X40	38	MXT40	4	1	566
30	CSD30038X45	38	MXT45	4-1/2	1	566
30	CSD30038X50	38	MXT50	5	1	659
30	CSD30038X60	38	MXT60	6	1-1/8	670

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
30	CSD30038X70	38	MXT70	7	7/8	692
30	CSD30040X35	40	MXT35	3-1/2	7/8	619
30	CSD30040X40	40	MXT40	4	1	627
30	CSD30040X45	40	MXT45	4-1/2	1	627
30	CSD30040X50	40	MXT50	5	1	718
30	CSD30040X60	40	MXT60	6	1-1/8	727
30	CSD30040X70	40	MXT70	7	1-1/4	746
30	CSD30042X35	42	MXT35	3-1/2	7/8	636
30	CSD30042X40	42	MXT40	4	1	643
30	CSD30042X45	42	MXT45	4-1/2	1	643
30	CSD30042X50	42	MXT50	5	1	735
30	CSD30044X35	44	MXT35	3-1/2	7/8	652
30	CSD30044X40	44	MXT40	4	1	660
30	CSD30044X45	44	MXT45	4-1/2	1	660
30	CSD30044X50	44	MXT50	5	1	751
30	CSD30044X60	44	MXT60	6	1-1/8	760
30	CSD30044X70	44	MXT70	7	1-1/4	778
30	CSD30044X80	44	MXT80	8	1-1/2	870
30	CSD30046X30	46	MXT30	3	7/8	670
30	CSD30046X35	46	MXT35	3-1/2	7/8	669
30	CSD30046X40	46	MXT40	4	1	676
30	CSD30046X45	46	MXT45	4-1/2	1	676
30	CSD30046X50	46	MXT50	5	1	767
30	CSD30046X60	46	MXT60	6	1-1/8	776
30	CSD30046X70	46	MXT70	7	1-1/4	795
30	CSD30051X30	51	MXT30	3	7/8	711
30	CSD30051X35	51	MXT35	3-1/2	7/8	710
30	CSD30051X40	51	MXT40	4	1	717
30	CSD30051X45	51	MXT45	4-1/2	1	717
30	CSD30051X50	51	MXT50	5	1	808
30	CSD30051X70	51	MXT70	7	1-1/4	836
30	CSD30051X80	51	MXT80	8	1-1/2	868
30	CSD30054X35	54	MXT35	3-1/2	7/8	822
30	CSD30054X40	54	MXT40	4	1	830
30	CSD30054X45	54	MXT45	4-1/2	1	830
30	CSD30054X50	54	MXT50	5	1	920
30	CSD30054X60	54	MXT60	6	1-1/8	929
30	CSD30054X80	54	MXT80	8	1-1/2	979
30	CSD30057X35	57	MXT35	3-1/2	7/8	852
30	CSD30057X40	57	MXT40	4	1	859
30	CSD30057X45	57	MXT45	4-1/2	1	859
30	CSD30057X50	57	MXT50	5	1	950
30	CSD30057X60	57	MXT60	6	1-1/8	958
30	CSD30057X70	57	MXT70	7	1-1/4	977
30	CSD30057X80	57	MXT80	8	1-1/2	1009
30	CSD30060X35	60	MXT35	3-1/2	7/8	926
30	CSD30060X40	60	MXT40	4	1	932
30	CSD30060X45	60	MXT45	4-1/2	1	932
30	CSD30060X50	60	MXT50	5	1	1021
30	CSD30063X35	63	MXT35	3-1/2	7/8	956
30	CSD30063X40	63	MXT40	4	1	962
30	CSD30063X45	63	MXT45	4-1/2	1	962
30	CSD30063X50	63	MXT50	5	1	1050
30	CSD30063X60	63	MXT60	6	1-1/8	1057

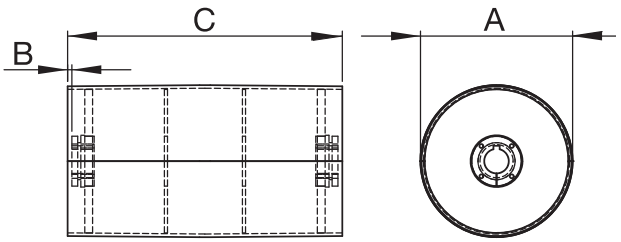
Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
30	CSD30063X70	63	MXT70	7	1-1/4	1073
30	CSD30063X80	63	MXT80	8	1-1/2	1102
30	CSD30066X35	66	MXT35	3-1/2	7/8	1036
30	CSD30066X40	66	MXT40	4	1	1041
30	CSD30066X45	66	MXT45	4-1/2	1	1041
30	CSD30066X50	66	MXT50	5	1	1130
30	CSD30076X80	76	MXT80	8	1-1/2	1274
36	CSD36012X35	12	MXT35	3-1/2	7/8	470
36	CSD36012X40	12	MXT40	4	1	480
36	CSD36014X35	14	MXT35	3-1/2	7/8	434
36	CSD36014X40	14	MXT40	4	1	434
36	CSD36014X45	14	MXT45	4-1/2	1	434
36	CSD36016X35	16	MXT35	3-1/2	7/8	444
36	CSD36016X40	16	MXT40	4	1	453
36	CSD36016X45	16	MXT45	4-1/2	1	454
36	CSD36016X50	16	MXT50	5	1	592
36	CSD36018X35	18	MXT35	3-1/2	7/8	464
36	CSD36018X40	18	MXT40	4	1	473
36	CSD36018X45	18	MXT45	4-1/2	1	473
36	CSD36018X50	18	MXT50	5	1	612
36	CSD36018X60	18	MXT60	6	1-1/8	624
36	CSD36020X35	20	MXT35	3-1/2	7/8	484
36	CSD36020X40	20	MXT40	4	1	493
36	CSD36020X45	20	MXT45	4-1/2	1	493
36	CSD36020X50	20	MXT50	5	1	632
36	CSD36020X60	20	MXT60	6	1-1/8	644
36	CSD36022X35	22	MXT35	3-1/2	7/8	503
36	CSD36022X40	22	MXT40	4	1	512
36	CSD36022X45	22	MXT45	4-1/2	1	512
36	CSD36022X50	22	MXT50	5	1	651
36	CSD36022X60	22	MXT60	6	1-1/8	669
36	CSD36024X35	24	MXT35	3-1/2	7/8	523
36	CSD36024X40	24	MXT40	4	1	533
36	CSD36024X45	24	MXT45	4-1/2	1	533
36	CSD36024X50	24	MXT50	5	1	671
36	CSD36024X60	24	MXT60	6	1-1/8	684
36	CSD36026X35	26	MXT35	3-1/2	7/8	543
36	CSD36026X40	26	MXT40	4	1	553
36	CSD36026X45	26	MXT45	4-1/2	1	553
36	CSD36026X50	26	MXT50	5	1	691
36	CSD36026X60	26	MXT60	6	1-1/8	704
36	CSD36030X35	30	MXT35	3-1/2	7/8	649
36	CSD36030X40	30	MXT40	4	1	658
36	CSD36030X45	30	MXT45	4-1/2	1	658
36	CSD36030X50	30	MXT50	5	1	764
36	CSD36030X60	30	MXT60	6	1-1/8	805
36	CSD36032X35	32	MXT35	3-1/2	7/8	669
36	CSD36032X40	32	MXT40	4	1	678
36	CSD36032X45	32	MXT45	4-1/2	1	678
36	CSD36032X50	32	MXT50	5	1	814
36	CSD36032X60	32	MXT60	6	1-1/8	825
36	CSD36036X35	36	MXT35	3-1/2	7/8	709
36	CSD36036X40	36	MXT40	4	1	717
36	CSD36036X45	36	MXT45	4-1/2	1	717

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
36	CSD36036X50	36	MXT50	5	1	854
36	CSD36036X60	36	MXT60	6	1-1/8	864
36	CSD36038X35	38	MXT35	3-1/2	7/8	729
36	CSD36038X40	38	MXT40	4	1	737
36	CSD36038X45	38	MXT45	4-1/2	1	737
36	CSD36038X50	38	MXT50	5	1	873
36	CSD36038X60	38	MXT60	6	1-1/8	884
36	CSD36040X35	40	MXT35	3-1/2	7/8	815
36	CSD36040X40	40	MXT40	4	1	822
36	CSD36040X45	40	MXT45	4-1/2	1	822
36	CSD36040X50	40	MXT50	5	1	957
36	CSD36040X60	40	MXT60	6	1-1/8	966
36	CSD36042X35	42	MXT35	3-1/2	7/8	835
36	CSD36042X40	42	MXT40	4	1	842
36	CSD36042X45	42	MXT45	4-1/2	1	842
36	CSD36042X50	42	MXT50	5	1	977
36	CSD36042X60	42	MXT60	6	1-1/8	985
36	CSD36044X35	44	MXT35	3-1/2	7/8	854
36	CSD36044X40	44	MXT40	4	1	862
36	CSD36044X50	44	MXT50	5	1	996
36	CSD36044X60	44	MXT60	6	1-1/8	1005
36	CSD36044X70	44	MXT70	7	1-1/4	1024
36	CSD36044X80	44	MXT80	8	1-1/2	1055
36	CSD36046X35	46	MXT35	3-1/2	7/8	874
36	CSD36046X40	46	MXT40	4	1	882
36	CSD36046X45	46	MXT45	4-1/2	1	882
36	CSD36046X50	46	MXT50	5	1	1016
36	CSD36046X60	46	MXT60	6	1-1/8	1025
36	CSD36051X35	51	MXT35	3-1/2	7/8	924
36	CSD36051X40	51	MXT40	4	1	931
36	CSD36051X45	51	MXT45	4-1/2	1	931
36	CSD36051X50	51	MXT50	5	1	1065
36	CSD36051X60	51	MXT60	6	1-1/8	1074
36	CSD36051X70	51	MXT70	7	1-1/4	1093
36	CSD36051X80	51	MXT80	8	1-1/2	1124
36	CSD36054X35	54	MXT35	3-1/2	7/8	1059
36	CSD36054X40	54	MXT40	4	1	1066
36	CSD36054X45	54	MXT45	4-1/2	1	1066
36	CSD36054X50	54	MXT50	5	1	1199
36	CSD36054X60	54	MXT60	6	1-1/8	1208
36	CSD36057X35	57	MXT35	3-1/2	7/8	1094
36	CSD36057X40	57	MXT40	4	1	1102
36	CSD36057X45	57	MXT45	4-1/2	1	1102
36	CSD36057X50	57	MXT50	5	1	1235
36	CSD36057X60	57	MXT60	6	1-1/8	1243
36	CSD36057X70	57	MXT70	7	1-1/4	1262
36	CSD36057X80	57	MXT80	8	1-1/2	1294
36	CSD36060X35	60	MXT35	3-1/2	7/8	1195
36	CSD36060X40	60	MXT40	4	1	1202
36	CSD36060X45	60	MXT45	4-1/2	1	1202
36	CSD36060X50	60	MXT50	5	1	1333
36	CSD36063X35	63	MXT35	3-1/2	7/8	1231
36	CSD36063X40	63	MXT40	4	1	1237
36	CSD36063X45	63	MXT45	4-1/2	1	1237

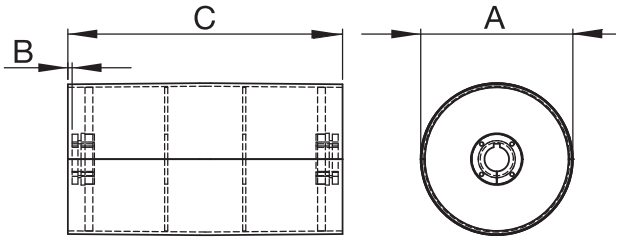
Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
36	CSD36063X50	63	MXT50	5	1	1368
36	CSD36063X60	63	MXT60	6	1-1/8	1375
36	CSD36063X70	63	MXT70	7	1-1/4	1391
36	CSD36063X80	63	MXT80	8	1-1/2	1420
36	CSD36066X35	66	MXT35	3-1/2	7/8	1597
36	CSD36066X40	66	MXT40	4	1	1602
36	CSD36066X45	66	MXT45	4-1/2	1	1602
36	CSD36066X50	66	MXT50	5	1	1731
36	CSD36066X60	66	MXT60	6	1-1/8	1736
42	CSD42018X40	18	MXT40	4	1	645
42	CSD42018X45	18	MXT45	4-1/2	1	645
42	CSD42018X50	18	MXT50	5	1	1805
42	CSD42018X60	18	MXT60	6	1-1/8	1805
42	CSD42020X40	20	MXT40	4	1	1809
42	CSD42020X45	20	MXT45	4-1/2	1	1817
42	CSD42020X50	20	MXT50	5	1	1949
42	CSD42020X60	20	MXT60	6	1-1/8	1949
42	CSD42022X40	22	MXT40	4	1	1951
42	CSD42022X45	22	MXT45	4-1/2	1	1958
42	CSD42022X50	22	MXT50	5	1	2004
42	CSD42022X60	22	MXT60	6	1-1/8	2004
42	CSD42024X40	24	MXT40	4		2007
42	CSD42024X45	24	MXT45	4-1/2	1	2013
42	CSD42024X50	24	MXT50	5	1	2236
42	CSD42024X60	24	MXT60	6	1-1/8	2236
42	CSD42026X40	26	MXT40	4	1	2236
42	CSD42026X45	26	MXT45	4-1/2	1	2239
42	CSD42026X50	26	MXT50	5	1	799
42	CSD42026X60	26	MXT60	6	1-1/8	955
42	CSD42030X40	30	MXT40	4	1	903
42	CSD42030X45	30	MXT45	4-1/2	1	903
42	CSD42030X50	30	MXT50	5	1	1089
42	CSD42030X60	30	MXT60	6	1-1/8	1100
42	CSD42032X40	32	MXT40	4	1	931
42	CSD42032X45	32	MXT45	4-1/2	1	931
42	CSD42032X50	32	MXT50	5	1	1117
42	CSD42032X60	32	MXT60	6	1-1/8	1128
42	CSD42036X40	36	MXT40	4	1	986
42	CSD42036X45	36	MXT45	4-1/2	1	986
42	CSD42036X50	36	MXT50	5	1	1172
42	CSD42036X60	36	MXT60	6	1-1/8	1183
42	CSD42038X40	38	MXT40	4	1	1014
42	CSD42038X45	38	MXT45	4-1/2	1	1014
42	CSD42038X50	38	MXT50	5	1	1200
42	CSD42038X60	38	MXT60	6	1-1/8	1211
42	CSD42040X40	40	MXT40	4	1	1132
42	CSD42040X45	40	MXT45	4-1/2	1	1132
42	CSD42040X50	40	MXT50	5	1	1316
42	CSD42040X60	40	MXT60	6	1-1/8	1325
42	CSD42042X40	42	MXT40	4	1	1160
42	CSD42042X45	42	MXT45	4-1/2	1	1160
42	CSD42042X50	42	MXT50	5	1	1344
42	CSD42042X60	42	MXT60	6	1-1/8	1353
42	CSD42044X40	44	MXT40	4	1	1187

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
42	CSD42044X45	44	MXT45	4-1/2	1	1188
42	CSD42044X50	44	MXT50	5	1	1372
42	CSD42044X60	44	MXT60	6	1-1/8	1380
42	CSD42046X40	46	MXT40	4	1	1215
42	CSD42046X45	46	MXT45	4-1/2	1	1215
42	CSD42046X50	46	MXT50	5	1	1399
42	CSD42046X60	46	MXT60	6	1-1/8	1407
42	CSD42051X40	51	MXT40	4	1	1285
42	CSD42051X45	51	MXT45	4-1/2	1	1285
42	CSD42051X50	51	MXT50	5	1	1469
42	CSD42051X60	51	MXT60	6	1-1/8	1477
42	CSD42054X40	54	MXT40	4	1	1506
42	CSD42054X45	54	MXT45	4-1/2	1	1506
42	CSD42054X50	54	MXT50	5	1	1510
42	CSD42054X60	54	MXT60	6	1-1/8	1519
42	CSD42057X40	57	MXT40	4	1	1805
42	CSD42057X45	57	MXT45	4-1/2	1	1805
42	CSD42057X50	57	MXT50	5	1	1809
42	CSD42057X60	57	MXT60	6	1-1/8	1817
42	CSD42060X40	60	MXT40	4	1	1949
42	CSD42060X45	60	MXT45	4-1/2	1	1949
42	CSD42060X50	60	MXT50	5	1	1951
42	CSD42060X60	60	MXT60	6	1-1/8	1958
42	CSD42063X40	63	MXT40	4	1	2004
42	CSD42063X45	63	MXT45	4-1/2	1	2004
42	CSD42063X50	63	MXT50	5	1	2007
42	CSD42063X60	63	MXT60	6	1-1/8	2013
42	CSD42066X40	66	MXT40	4	1	2236
42	CSD42066X45	66	MXT45	4-1/2	1	2236
42	CSD42066X50	66	MXT50	5	1	2236
42	CSD42066X60	66	MXT60	6	1-1/8	2239
48	CSD48018X40	18	MXT40	4	1	799
48	CSD48018X45	18	MXT45	4-1/2	1	800
48	CSD48018X50	18	MXT50	5	1	1047
48	CSD48018X60	18	MXT60	6	1-1/8	1060
48	CSD48020X40	20	MXT40	4	1	831
48	CSD48020X45	20	MXT45	4-1/2	1	831
48	CSD48020X50	20	MXT50	5	1	1079
48	CSD48020X60	20	MXT60	6	1-1/8	1091
48	CSD48022X40	22	MXT40	4	1	862
48	CSD48022X45	22	MXT45	4-1/2	1	862
48	CSD48022X50	22	MXT50	5	1	1110
48	CSD48022X60	22	MXT60	6	1-1/8	1123
48	CSD48024X40	24	MXT40	4	1	895
48	CSD48024X45	24	MXT45	4-1/2	1	895
48	CSD48024X50	24	MXT50	5	1	1142
48	CSD48024X60	24	MXT60	6	1-1/8	1155
48	CSD48026X40	26	MXT40	4	1	927
48	CSD48026X45	26	MXT45	4-1/2	1	927
48	CSD48026X50	26	MXT50	5	1	1174
48	CSD48026X60	26	MXT60	6	1-1/8	1186
48	CSD48030X40	30	MXT40	4	1	1110
48	CSD48030X45	30	MXT45	4-1/2	1	1110
48	CSD48030X50	30	MXT50	5	1	1356

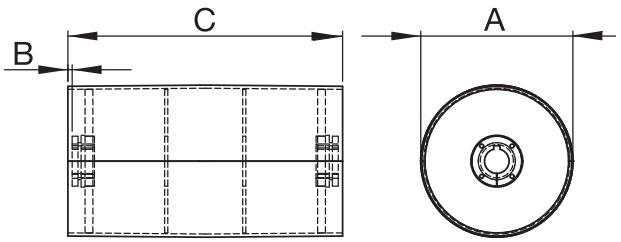
Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
48	CSD48030X60	30	MXT60	6	1-1/8	1366
48	CSD48032X40	32	MXT40	4	1	1142
48	CSD48032X45	32	MXT45	4-1/2	1	1142
48	CSD48032X50	32	MXT50	5	1	1387
48	CSD48032X60	32	MXT60	6	1-1/8	1389
48	CSD48036X45	36	MXT45	4-1/2	1	1206
48	CSD48036X50	36	MXT50	5	1	1451
48	CSD48036X60	36	MXT60	6	1-1/8	1461
48	CSD48038X45	38	MXT45	4-1/2	1	1237
48	CSD48038X50	38	MXT50	5	1	1482
48	CSD48038X60	38	MXT60	6	1-1/8	1493
48	CSD48040X45	40	MXT45	4-1/2	1	1389
48	CSD48040X50	40	MXT50	5	1	1632
48	CSD48040X60	40	MXT60	6	1-1/8	1641
48	CSD48042X45	42	MXT45	4-1/2	1	1420
48	CSD48042X50	42	MXT50	5	1	1664
48	CSD48042X60	42	MXT60	6	1-1/8	1672
48	CSD48044X45	44	MXT45	4-1/2	1	1452
48	CSD48044X50	44	MXT50	5	1	1695
48	CSD48044X60	44	MXT60	6	1-1/8	1704
48	CSD48046X45	46	MXT45	4-1/2	1	1958
48	CSD48046X50	46	MXT50	5	1	1962
48	CSD48046X60	46	MXT60	6	1-1/8	1971
48	CSD48051X45	51	MXT45	4-1/2	1	2064
48	CSD48051X50	51	MXT50	5	1	2068
48	CSD48051X60	51	MXT60	6	1-1/8	2076
48	CSD48054X45	54	MXT45	4-1/2	1	2127
48	CSD48054X50	54	MXT50	5	1	2131
48	CSD48054X60	54	MXT60	6	1-1/8	2140
48	CSD48057X45	57	MXT45	4-1/2	1	2190
48	CSD48057X50	57	MXT50	5	1	2195
48	CSD48057X60	57	MXT60	6	1-1/8	2203
48	CSD48060X45	60	MXT45	4-1/2	1	2372
48	CSD48060X50	60	MXT50	5	1	2374
48	CSD48060X60	60	MXT60	6	1-1/8	2381
48	CSD48063X45	63	MXT45	4-1/2	1	2435
48	CSD48063X50	63	MXT50	5	1	2438
48	CSD48063X60	63	MXT60	6	1-1/8	2444
48	CSD48066X45	66	MXT45	4-1/2	1	2629
48	CSD48066X50	66	MXT50	5	1	2630
48	CSD48066X60	66	MXT60	6	1-1/8	2635
54	CSD54018X45	18	MXT45	4-1/2	1	1376
54	CSD54018X50	18	MXT50	5	1	1383
54	CSD54018X60	18	MXT60	6	1-1/8	1396
54	CSD54020X45	20	MXT45	4-1/2	1	1421
54	CSD54020X50	20	MXT50	5	1	1431
54	CSD54020X60	20	MXT60	6	1-1/8	1444
54	CSD54022X45	22	MXT45	4-1/2	1	1472
54	CSD54022X50	22	MXT50	5	1	1479
54	CSD54022X60	22	MXT60	6	1-1/8	1491
54	CSD54024X45	24	MXT45	4-1/2	1	1519
54	CSD54024X50	24	MXT50	5	1	1526
54	CSD54024X60	24	MXT60	6	1-1/8	1539
54	CSD54026X45	26	MXT45	4-1/2	1	1567

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty



Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
54	CSD54026X50	26	MXT50	5	1	1574
54	CSD54026X60	26	MXT60	6	1-1/8	1589
54	CSD54030X45	30	MXT45	4-1/2	1	1814
54	CSD54030X50	30	MXT50	5	1	1820
54	CSD54030X60	30	MXT60	6	1-1/8	1830
54	CSD54032X45	32	MXT45	4-1/2	1	1861
54	CSD54032X50	32	MXT50	5	1	1867
54	CSD54032X60	32	MXT60	6	1-1/8	1878
54	CSD54036X45	36	MXT45	4-1/2	1	1957
54	CSD54036X50	36	MXT50	5	1	1963
54	CSD54036X60	36	MXT60	6	1-1/8	1973
54	CSD54038X45	38	MXT45	4-1/2	1	2005
54	CSD54038X50	38	MXT50	5	1	2010
54	CSD54038X60	38	MXT60	6	1-1/8	2021
54	CSD54040X45	40	MXT45	4-1/2	1	2204
54	CSD54040X50	40	MXT50	5	1	2208
54	CSD54040X60	40	MXT60	6	1-1/8	2217
54	CSD54042X45	42	MXT45	4-1/2	1	2251
54	CSD54042X50	42	MXT50	5	1	2256
54	CSD54042X60	42	MXT60	6	1-1/8	2264
54	CSD54044X45	44	MXT45	4-1/2	1	2294
54	CSD54044X50	44	MXT50	5	1	2303
54	CSD54044X60	44	MXT60	6	1-1/8	2312
54	CSD54046X45	46	MXT45	4-1/2	1	2347
54	CSD54046X50	46	MXT50	5	1	2351
54	CSD54046X60	46	MXT60	6	1-1/8	2359
54	CSD54051X45	51	MXT45	4-1/2	1	2465
54	CSD54051X50	51	MXT50	5	1	2470
54	CSD54051X60	51	MXT60	6	1-1/8	2478
54	CSD54054X45	54	MXT45	4-1/2	1	2537
54	CSD54054X50	54	MXT50	5	1	2541
54	CSD54054X60	54	MXT60	6	1-1/8	2550
54	CSD54057X45	57	MXT45	4-1/2	1	2608
54	CSD54057X50	57	MXT50	5	1	2612
54	CSD54057X60	57	MXT60	6	1-1/8	2621
54	CSD54060X45	60	MXT45	4-1/2	1	2830
54	CSD54060X50	60	MXT50	5	1	2833
54	CSD54060X60	60	MXT60	6	1-1/8	2840
54	CSD54063X45	63	MXT45	4-1/2	1	2901
54	CSD54063X50	63	MXT50	5	1	2904
54	CSD54063X60	63	MXT60	6	1-1/8	2911
54	CSD54066X45	66	MXT45	4-1/2	1	3274
54	CSD54066X50	66	MXT50	5	1	3274
54	CSD54066X60	66	MXT60	6	1-1/8	3277
60	CSD60018X45	18	MXT45	4-1/2	1	1648

Standard Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
60	CSD60018X50	18	MXT50	5	1	1655
60	CSD60018X60	18	MXT60	6	1-1/8	1668
60	CSD60020X45	20	MXT45	4-1/2	1	1701
60	CSD60020X60	20	MXT60	6	1-1/8	1721
60	CSD60022X45	22	MXT45	4-1/2	1-1/8	1754
60	CSD60022X50	22	MXT50	5	1	1761
60	CSD60022X60	22	MXT60	6	1-1/8	1774
60	CSD60024X45	24	MXT45	4-1/2	1	1807
60	CSD60024X50	24	MXT50	5	1	1814
60	CSD60024X60	24	MXT60	6	1-1/8	1827
60	CSD60026X45	26	MXT45	4-1/2	1	1860
60	CSD60026X50	26	MXT50	5	1	1767
60	CSD60026X60	26	MXT60	6	1-1/8	1880
60	CSD60030X45	30	MXT45	4-1/2	1	2155
60	CSD60030X50	30	MXT50	5	1	2161
60	CSD60030X60	30	MXT60	6	1-1/8	2172
60	CSD60032X45	32	MXT45	4-1/2	1	2208
60	CSD60032X50	32	MXT50	5	1	2214
60	CSD60032X60	32	MXT60	6	1-1/8	2225
60	CSD60036X50	36	MXT50	5	1	2320
60	CSD60036X60	36	MXT60	6	1-1/8	2320
60	CSD60038X50	38	MXT50	5	1	2371
60	CSD60038X60	38	MXT60	6	1-1/8	2383
60	CSD60040X50	40	MXT50	5	1	2613
60	CSD60040X60	40	MXT60	6	1-1/8	2622
60	CSD60042X50	42	MXT50	5	1	2666
60	CSD60042X60	42	MXT60	6	1-1/8	2674
60	CSD60044X50	44	MXT50	5	1	2719
60	CSD60044X60	44	MXT60	6	1-1/8	2727
60	CSD60046X50	46	MXT50	5	1	2771
60	CSD60046X60	46	MXT60	6	1-1/8	2780
60	CSD60051X50	51	MXT50	5	1	2904
60	CSD60051X60	51	MXT60	6	1-1/8	2912
60	CSD60054X50	54	MXT50	5	1	2983
60	CSD60054X60	54	MXT60	6	1-1/8	2992
60	CSD60057X50	57	MXT50	5	1	3062
60	CSD60057X60	57	MXT60	6	1-1/8	3071
60	CSD60060X50	60	MXT50	5	1	3328
60	CSD60060X60	60	MXT60	6	1-1/8	3335
60	CSD60063X50	63	MXT50	5	1	3407
60	CSD60063X60	63	MXT60	6	1-1/8	3414
60	CSD60066X50	66	MXT50	5	1	3859
60	CSD60066X60	66	MXT60	6	1-1/8	3862

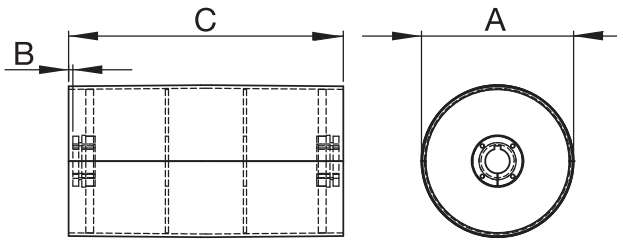
* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.



Custom Shafting Available! Call Martin

Drum Pulleys — Standard Duty (Lagged)



Standard Duty Drum (Lagged)

Dia. (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Lagging	Approx. Weight (lbs)
6	CSD06020X25L3H	20	MXT25	2 1/2	3/4	3/8	34
6	CSD06032X25L3H	32	MXT25	2 1/2	3/4	3/8	52
8	CSD08026X25L3H	26	MXT25	2 1/2	3/4	3/8	61
8	CSD08032X25L3H	32	MXT25	2 1/2	3/4	3/8	47
10	**CSD10026X25L3H**	**26**	**MXT25**	**2 1/2**	**3/4**	**3/8**	**86**
10	CSD10026X30L3H	26	MXT30	3	7/8	3/8	85
10	CSD10032X25L3H	32	MXT25	2 1/2	3/4	3/8	104
10	CSD10044X25L3H	44	MXT25	2 1/2	3/4	3/8	133
10	CSD10044X30L3H	44	MXT30	3	7/8	3/8	136
10	CSD10051X30L3H	51	MXT30	3	7/8	3/8	149
12	**CSD12020X25L3H**	**20**	**MXT25**	**2 1/2**	**3/4**	**3/8**	**104**
12	**CSD12026X25L3H**	**26**	**MXT25**	**2 1/2**	**3/4**	**3/8**	**112**
12	**CSD12026X30L3H**	**26**	**MXT30**	**3**	**7/8**	**3/8**	**110**
12	**CSD12026X30L4H**	**26**	**MXT30**	**3**	**7/8**	**1/2**	**111**
12	**CSD12032X25L3H**	**32**	**MXT25**	**2-1/2**	**3/4**	**3/8**	**135**
12	**CSD12032X30L3H**	**32**	**MXT30**	**3**	**7/8**	**3/8**	**133**
12	CSD12032X30L4H	32	MXT30	3	7/8	1/2	134
12	CSD12032X35L3H	32	MXT35	3-1/2	7/8	3/8	142
12	**CSD12038X25L3H**	**38**	**MXT25**	**2-1/2**	**3/4**	**3/8**	**151**
12	**CSD12038X30L3H**	**38**	**MXT30**	**3**	**7/8**	**3/8**	**149**
12	CSD12038X35L3H	38	MXT35	3-1/2	7/8	3/8	159
12	CSD12044X25L3H	44	MXT25	2-1/2	3/4	3/8	174
12	**CSD12044X30L3H**	**44**	**MXT30**	**3**	**7/8**	**3/8**	**172**
12	CSD12051X25L3H	51	MXT25	2-1/2	3/4	3/8	192
12	**CSD12051X30L3H**	**51**	**MXT30**	**3**	**7/8**	**3/8**	**191**
12	**CSD12051X35L3H**	**51**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**200**
12	**CSD12063X30L3H**	**63**	**MXT30**	**3**	**7/8**	**3/8**	**312**
14	CSD14020X30L3H	20	MXT30	3	7/8	3/8	104
14	**CSD14026X25L3H**	**26**	**MXT25**	**2-1/2**	**3/4**	**3/8**	**123**
14	CSD14026X30L3H	26	MXT30	3	7/8	3/8	122
14	CSD14026X35L3H	26	MXT35	3-1/2	7/8	3/8	121
14	**CSD14032X25L3H**	**32**	**MXT25**	**2-1/2**	**3/4**	**3/8**	**143**
14	**CSD14032X30L3H**	**32**	**MXT30**	**3**	**7/8**	**3/8**	**149**
14	**CSD14038X25L3H**	**38**	**MXT25**	**2-1/2**	**3/4**	**3/8**	**162**
14	**CSD14038X30L3H**	**38**	**MXT30**	**3**	**7/8**	**3/8**	**168**
14	CSD14038X35L3H	38	MXT35	3-1/2	7/8	3/8	167
14	**CSD14044X30L3H**	**44**	**MXT30**	**3**	**7/8**	**3/8**	**194**
14	CSD14044X35L3H	44	MXT35	3-1/2	7/8	3/8	193
14	CSD14044X40L3H	44	MXT40	4	1	3/8	205
14	CSD14051X30L3H	51	MXT30	3	7/8	3/8	216
14	**CSD14051X35L3H**	**51**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**215**
14	CSD14051X40L3H	51	MXT40	4	1	3/8	227
14	CSD14063X30L3H	63	MXT30	3	7/8	3/8	357
16	CSD16020X30L3H	20	MXT30	3	7/8	3/8	122
16	CSD16020X35L4H	20	MXT35	3-1/2	7/8	1/2	122
16	**CSD16026X25L3H**	**26**	**MXT25**	**2-1/2**	**3/4**	**3/8**	**135**
16	**CSD16026X30L3H**	**26**	**MXT30**	**3**	**7/8**	**3/8**	**136**
16	CSD16026X35L3H	26	MXT35	3-1/2	7/8	3/8	143
16	CSD16026X40L2H	26	MXT40	4	1	1/4	154
16	CSD16026X40L3H	26	MXT40	4	1	3/8	154
16	CSD16026X50L3H	26	MXT50	5	1	3/8	165

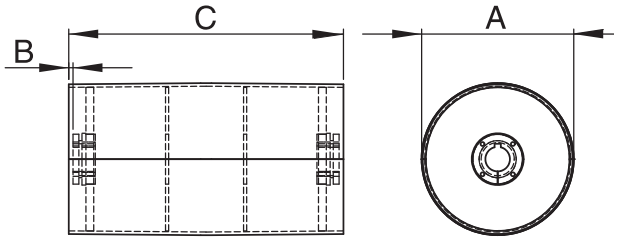
Standard Duty Drum (Lagged)

Dia. (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Lagging	Approx. Weight (lbs)
16	CSD16032X25L3H	32	MXT25	3	3/4	3/8	170
16	**CSD16032X30L3H**	**32**	**MXT30**	**3**	**7/8**	**3/8**	**176**
16	CSD16032X35L3H	32	MXT35	3-1/2	7/8	3/8	175
16	CSD16032X40L3H	32	MXT40	4	1	3/8	185
16	CSD16038X25L3H	38	MXT25	2-1/2	3/4	3/8	152
16	**CSD16038X30L3H**	**38**	**MXT30**	**3**	**7/8**	**3/8**	**198**
16	**CSD16038X35L3H**	**38**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**197**
16	CSD16038X40L3H	38	MXT40	4	1	3/8	206
16	**CSD16044X30L3H**	**44**	**MXT30**	**3**	**7/8**	**3/8**	**230**
16	**CSD16044X35L3H**	**26**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**229**
16	**CSD16051X35L3H**	**51**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**298**
16	**CSD16051X40L3H**	**51**	**MXT40**	**4**	**1**	**3/8**	**307**
16	**CSD16063X35L3H**	**63**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**362**
18	**CSD18026X30L3H**	**26**	**MXT30**	**3**	**7/8**	**3/8**	**167**
18	**CSD18026X35L3H**	**26**	**MXT35**	**3 1/2**	**7/8**	**3/8**	**172**
18	CSD18026X40L3H	26	MXT40	4	1	3/8	176
18	CSD18026X45L3H	26	MXT45	4-1/2	1	3/8	190
18	**CSD18032X30L3H**	**32**	**MXT30**	**3**	**7/8**	**3/8**	**205**
18	**CSD18032X35L3H**	**32**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**204**
18	**CSD18032X40L3H**	**32**	**MXT40**	**4**	**1**	**3/8**	**214**
18	CSD18032X45L3H	32	MXT45	4-1/2	1	3/8	227
18	**CSD18038X30L3H**	**38**	**MXT30**	**3**	**7/8**	**3/8**	**230**
18	**CSD18038X35L3H**	**38**	**MXT35**	**3-1/2**	**7/8**	**3/8**	**229**
18	**CSD18038X40L3H**	**38**	**MXT40**	**4**	**1**	**3/8**	**238**
18	**CSD18044X30L3H**	**44**	**MXT30**	**3**	**7/8**	**3/8**	**268**
18	CSD18044X35L3H	44	MXT35	3-1/2	7/8	3/8	267
18	**CSD18044X40L3H**	**44**	**MXT40**	**4**	**1**	**3/8**	**276**
18	**CSD18051X45L3H**	**51**	**MXT45**	**4-1/2**	**1**	**3/8**	**278**
20	CSD20026X30L3H	26	MXT30	3	7/8	3/8	191
20	CSD20026X35L3H	26	MXT35	3-1/2	7/8	3/8	190
20	**CSD20026X35L4H**	**26**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**191**
20	CSD20026X40L3H	26	MXT40	4	1	3/8	201
20	CSD20026X45L3H	26	MXT45	4-1/2	1	3/8	218
20	CSD20032X30L3H	32	MXT30	3	7/8	3/8	236
20	CSD20032X35L3H	32	MXT35	3-1/2	7/8	3/8	235
20	**CSD20032X35L4H**	**32**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**236**
20	CSD20032X40L3H	32	MXT40	4	1	3/8	236
20	CSD20032X45L3H	32	MXT45	4-1/2	1	3/8	262
20	CSD20038X30L3H	38	MXT30	3	7/8	3/8	263
20	CSD20038X35L3H	38	MXT35	3-1/2	7/8	3/8	262
20	**CSD20038X35L4H**	**38**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**264**
20	CSD20038X40L3H	38	MXT40	4	1	3/8	272
20	**CSD20044X40L4H**	**44**	**MXT40**	**4**	**1**	**1/2**	**317**
20	CSD20044X40L3H	44	MXT40	4	1	3/8	316
20	CSD20051X40L3H	51	MXT40	4	1	3/8	403
20	**CSD20051X45L4H**	**51**	**MXT45**	**4-1/2**	**1**	**1/2**	**421**
24	CSD24026X35L3H	26	MXT35	3-1/2	7/8	3/8	270
24	**CSD24026X35L4H**	**26**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**271**
24	CSD24026X40L3H	26	MXT40	4	1	3/8	280
24	CSD24026X45L3H	26	MXT45	4-1/2	1	3/8	280
24	CSD24032X30L3H	32	MXT30	3	7/8	3/8	331
24	CSD24032X35L3H	32	MXT35	3-1/2	7/8	3/8	330
24	**CSD24032X35L4H**	**32**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**332**
24	CSD24032X40L3H	32	MXT40	4	1	3/8	339
24	CSD24032X45L3H	32	MXT45	4-1/2	1	3/8	339
24	CSD24038X35L3H	38	MXT35	3-1/2	7/8	3/8	363
24	**CSD24038X35L4H**	**38**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**364**
24	CSD24038X40L3H	38	MXT40	4	1	3/8	371
24	**CSD24038X45L3H**	**38**	**MXT45**	**4-1/2**	**1**	**3/8**	**371**
24	CSD24044X40L3H	44	MXT40	4	1	3/8	430
24	**CSD24044X40L4H**	**44**	**MXT40**	**4**	**1**	**1/2**	**432**
24	CSD24044X45L3H	44	MXT45	4-1/2	1	3/8	430
24	CSD24051X40L3H	51	MXT40	4	1	3/8	534
24	**CSD24051X45L4H**	**51**	**MXT45**	**4-1/2**	**1**	**1/2**	**536**

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty – M-HE Bushed



Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
6	CSD06012H25	12	M-HE25	2-1/2	3/4	26
6	**CSD06014H25**	**14**	**M-HE25**	**2-1/2**	**3/4**	**29**
6	**CSD06018H25**	**18**	**M-HE25**	**2-1/2**	**3/4**	**34**
6	**CSD06020H25**	**20**	**M-HE25**	**2-1/2**	**3/4**	**37**
6	**CSD06024H25**	**24**	**M-HE25**	**2-1/2**	**3/4**	**39**
6	**CSD06026H25**	**26**	**M-HE25**	**2-1/2**	**3/4**	**45**
6	CSD06030H25	30	M-HE25	2-1/2	3/4	51
6	**CSD06032H25**	**32**	**M-HE25**	**2-1/2**	**3/4**	**53**
6	CSD06036H25	36	M-HE25	2-1/2	3/4	59
6	**CSD06038H25**	**38**	**M-HE25**	**2-1/2**	**3/4**	**61**
6	CSD06040H25	40	M-HE25	2-1/2	3/4	65
6	**CSD06044H25**	**44**	**M-HE25**	**2-1/2**	**3/4**	**70**
6	**CSD06051H25**	**51**	**M-HE25**	**2-1/2**	**3/4**	**80**
6	CSD06063H25	63	M-HE25	2-1/2	3/4	69
8	CSD08012H25	12	M-HE25	2-1/2	3/4	33
8	CSD08014H25	14	M-HE25	2-1/2	3/4	36
8	**CSD08018H25**	**18**	**M-HE25**	**2-1/2**	**3/4**	**43**
8	**CSD08020H25**	**20**	**M-HE25**	**2-1/2**	**3/4**	**76**
8	CSD08020H35	20	M-HE35	3-1/2	7/8	47
8	**CSD08024H25**	**24**	**M-HE25**	**2-1/2**	**3/4**	**53**
8	**CSD08026H25**	**26**	**M-HE25**	**2-1/2**	**3/4**	**58**
8	**CSD08032H25**	**32**	**M-HE25**	**2-1/2**	**3/4**	**71**
8	**CSD08038H25**	**38**	**M-HE25**	**2-1/2**	**3/4**	**81**
8	CSD08038H30	38	M-HE30	3	7/8	88
8	**CSD08044H25**	**44**	**M-HE25**	**2-1/2**	**3/4**	**80**
8	CSD08044H30	44	M-HE30	3	7/8	101
8	**CSD08051H25**	**51**	**M-HE25**	**2-1/2**	**3/4**	**107**
8	CSD08051H30	51	M-HE30	3	7/8	113
8	CSD08063H30	63	M-HE30	3	7/8	135
10	CSD10010H25	10	M-HE25	2-1/2	3/4	39
10	**CSD10014H25**	**14**	**M-HE25**	**2-1/2**	**3/4**	**41**
10	CSD10018H25	18	M-HE25	2-1/2	3/4	57
10	**CSD10020H25**	**20**	**M-HE25**	**2-1/2**	**3/4**	**62**
10	CSD10020H35	20	M-HE35	3-1/2	7/8	68
10	CSD10022H25	22	M-HE25	2-1/2	3/4	66
10	CSD10022H35	22	M-HE35	3-1/2	7/8	73
10	**CSD10024H25**	**24**	**M-HE25**	**2-1/2**	**3/4**	**70**
10	**CSD10026H25**	**26**	**M-HE25**	**2-1/2**	**3/4**	**75**
10	**CSD10026H30**	**26**	**M-HE30**	**3**	**7/8**	**82**
10	CSD10028H25	28	M-HE25	2-1/2	3/4	83
10	CSD10030H25	30	M-HE25	2-1/2	3/4	88
10	**CSD10032H25**	**32**	**M-HE25**	**2-1/2**	**3/4**	**92**
10	**CSD10032H30**	**32**	**M-HE30**	**3**	**7/8**	**99**
10	**CSD10038H25**	**38**	**M-HE25**	**2-1/2**	**3/4**	**106**
10	**CSD10038H30**	**38**	**M-HE30**	**3**	**7/8**	**113**
10	CSD10044H25	44	M-HE25	2-1/2	3/4	123
10	**CSD10044H30**	**44**	**M-HE30**	**3**	**7/8**	**130**
10	CSD10044H35	44	M-HE35	3-1/2	7/8	128
10	**CSD10051H25**	**51**	**M-HE25**	**2-1/2**	**3/4**	**139**
10	CSD10051H30	51	M-HE30	3	7/8	145
10	CSD10054H25	54	M-HE25	2-1/2	3/4	145
10	CSD10060H30	60	M-HE30	3	7/8	165
10	CSD10063H25	63	M-HE25	2-1/2	3/4	165
10	CSD10063H30	63	M-HE30	3	7/8	172
10	CSD10063H35	63	M-HE35	3-1/2	7/8	170
12	CSD12012H25	12	M-HE25	2-1/2	3/4	56
12	CSD12014H25	14	M-HE25	2-1/2	3/4	61
12	CSD12014H30	14	M-HE30	3	7/8	69
12	CSD12018H25	18	M-HE25	2-1/2	3/4	72
12	CSD12018H30	18	M-HE30	3	7/8	80

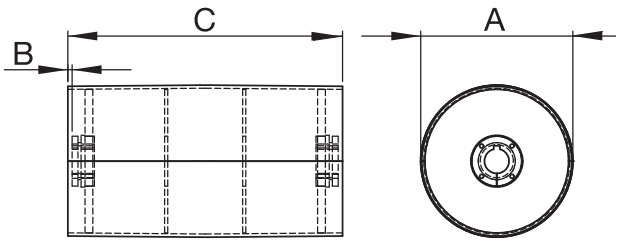
Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	**CSD12020H25**	**20**	**M-HE25**	**2-1/2**	**3/4**	**77**
12	CSD12020H30	20	M-HE30	3	7/8	85
12	CSD12022H25	22	M-HE25	2-1/2	3/4	83
12	CSD12024H25	24	M-HE25	2-1/2	3/4	88
12	**CSD12026H25**	**26**	**M-HE25**	**2-1/2**	**3/4**	**93**
12	**CSD12026H30**	**26**	**M-HE30**	**3**	**7/8**	**101**
12	CSD12026H35	26	M-HE35	3-1/2	7/8	100
12	CSD12028H25	28	M-HE25	2-1/2	3/4	105
12	CSD12028H30	28	M-HE30	3	7/8	112
12	CSD12030H25	30	M-HE25	2-1/2	3/4	110
12	**CSD12032H25**	**32**	**M-HE25**	**2-1/2**	**3/4**	**115**
12	**CSD12032H30**	**32**	**M-HE30**	**3**	**7/8**	**123**
12	CSD12032H35	32	M-HE35	3-1/2	7/8	121
12	CSD12032H45	32	M-HE45	4-1/2	1	137
12	CSD12034H30	34	M-HE30	3	7/8	128
12	**CSD12038H25**	**38**	**M-HE25**	**2-1/2**	**3/4**	**131**
12	**CSD12038H30**	**38**	**M-HE30**	**3**	**7/8**	**138**
12	CSD12038H35	38	M-HE35	3-1/2	7/8	137
12	CSD12040H25	40	M-HE25	2-1/2	3/4	142
12	CSD12040H30	40	M-HE30	3	7/8	150
12	**CSD12044H25**	**44**	**M-HE25**	**2-1/2**	**3/4**	**153**
12	**CSD12044H30**	**44**	**M-HE30**	**3**	**7/8**	**160**
12	CSD12044H35	44	M-HE35	3-1/2	7/8	158
12	**CSD12051H25**	**51**	**M-HE25**	**2-1/2**	**3/4**	**171**
12	**CSD12051H30**	**51**	**M-HE30**	**3**	**7/8**	**179**
12	CSD12051H35	51	M-HE35	3-1/2	7/8	177
12	CSD12057H25	57	M-HE25	2-1/2	3/4	262
12	CSD12057H30	57	M-HE30	3	7/8	269
12	CSD12057H35	57	M-HE35	3-1/2	7/8	267
12	CSD12057H45	57	M-HE45	4-1/2	1	282
12	CSD12063H25	63	M-HE25	2-1/2	3/4	291
12	CSD12063H30	63	M-HE30	3	7/8	298
12	CSD12063H40	63	M-HE40	4	1	307
14	CSD14012H40	12	M-HE40	4	1	86
14	CSD14014H25	14	M-HE25	2-1/2	3/4	76
14	**CSD14020H25**	**20**	**M-HE25**	**2-1/2**	**3/4**	**94**
14	CSD14020H30	20	M-HE30	3	7/8	102
14	**CSD14026H25**	**26**	**M-HE25**	**2-1/2**	**3/4**	**113**
14	**CSD14026H30**	**26**	**M-HE30**	**3**	**7/8**	**121**
14	CSD14026H35	26	M-HE35	3-1/2	7/8	120
14	CSD14028H30	28	M-HE30	3	7/8	134
14	CSD14028H35	28	M-HE35	3-1/2	7/8	133
14	CSD14030H25	30	M-HE25	2-1/2	3/4	134
14	**CSD14032H25**	**32**	**M-HE25**	**2-1/2**	**3/4**	**140**
14	**CSD14032H30**	**32**	**M-HE30**	**3**	**7/8**	**146**
14	**CSD14038H25**	**38**	**M-HE25**	**2-1/2**	**3/4**	**117**
14	**CSD14038H30**	**38**	**M-HE30**	**3**	**7/8**	**165**
14	CSD14038H35	38	M-HE35	3-1/2	7/8	117
14	CSD14038H40	38	M-HE40	4	1	174
14	CSD14044H25	44	M-HE25	2-1/2	3/4	186
14	**CSD14044H30**	**44**	**M-HE30**	**3**	**7/8**	**191**
14	CSD14044H35	44	M-HE35	3-1/2	7/8	190
14	CSD14046H30	46	M-HE30	3	7/8	197
14	CSD14051H25	51	M-HE25	2-1/2	3/4	208
14	**CSD14051H30**	**51**	**M-HE30**	**3**	**7/8**	**212**
14	**CSD14051H35**	**51**	**M-HE35**	**3-1/2**	**7/8**	**212**
14	CSD14051H40	51	M-HE40	4	1	222

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty – M-HE Bushed



Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	CSD14051H45	51	M-HE45	4-1/2	1	228
14	CSD14054H25	54	M-HE25	2-1/2	3/4	299
14	CSD14057H30	57	M-HE30	3	7/8	318
14	CSD14057H35	57	M-HE35	3-1/2	7/8	317
14	CSD14057H40	57	M-HE40	4	1	327
14	CSD14057H45	57	M-HE45	4-1/2	1	334
14	CSD14063H25	63	M-HE25	2-1/2	3/4	349
14	CSD14063H30	63	M-HE30	3	7/8	352
14	**CSD14063H35**	**63**	**M-HE35**	**3-1/2**	**7/8**	**352**
14	CSD14063H40	63	M-HE40	4	1	362
16	CSD16014H30	14	M-HE30	3	7/8	99
16	CSD16020H25	20	M-HE25	2-1/2	3/4	113
16	CSD16020H30	20	M-HE30	3	7/8	121
16	CSD16022H25	22	M-HE25	2-1/2	3/4	120
16	CSD16022H35	22	M-HE35	3-1/2	7/8	127
16	CSD16024H30	24	M-HE30	3	7/8	135
16	**CSD16026H25**	**26**	**M-HE25**	**2-1/2**	**3/4**	**134**
16	**CSD16026H30**	**26**	**M-HE30**	**3**	**7/8**	**142**
16	CSD16026H35	26	M-HE35	3-1/2	7/8	141
16	CSD16026H50	26	M-HE50	5	1	169
16	CSD16028H25	28	M-HE25	2-1/2	3/4	153
16	CSD16028H30	28	M-HE30	3	7/8	159
16	CSD16028H35	28	M-HE35	3-1/2	7/8	159
16	CSD16030H25	30	M-HE25	2-1/2	3/4	160
16	**CSD16032H25**	**32**	**M-HE25**	**2-1/2**	**3/4**	**167**
16	**CSD16032H30**	**32**	**M-HE30**	**3**	**7/8**	**174**
16	**CSD16032H35**	**32**	**M-HE35**	**3-1/2**	**7/8**	**173**
16	CSD16032H40	32	M-HE40	4	1	181
16	CSD16032H45	32	M-HE45	4-1/2	1	188
16	CSD16032H50	32	M-HE50	5	1	200
16	CSD16032H60	32	M-HE60	6	1-1/8	228
16	CSD16034H35	34	M-HE35	3-1/2	7/8	180
16	CSD16034H40	34	M-HE40	4	1	188
16	**CSD16038H25**	**38**	**M-HE25**	**2-1/2**	**3/4**	**188**
16	**CSD16038H30**	**38**	**M-HE30**	**3**	**7/8**	**195**
16	**CSD16038H35**	**38**	**M-HE35**	**3-1/2**	**7/8**	**194**
16	CSD16038H40	38	M-HE40	4	1	203
16	CSD16038H50	38	M-HE50	5	1	221
16	CSD16040H25	40	M-HE25	2-1/2	3/4	207
16	CSD16040H30	40	M-HE30	3	7/8	212
16	CSD16040H40	40	M-HE40	4	1	219
16	CSD16040H45	40	M-HE45	4-1/2	1	225
16	CSD16040H50	40	M-HE50	5	1	238
16	CSD16044H25	44	M-HE25	2-1/2	3/4	221
16	**CSD16044H30**	**44**	**M-HE30**	**3**	**7/8**	**226**
16	**CSD16044H35**	**44**	**M-HE35**	**3-1/2**	**7/8**	**226**
16	**CSD16044H40**	**44**	**M-HE40**	**4**	**1**	**233**
16	CSD16046H35	46	M-HE35	3-1/2	7/8	233
16	CSD16051H25	51	M-HE25	2-1/2	3/4	290
16	CSD16051H30	51	M-HE30	3	7/8	295
16	**CSD16051H35**	**51**	**M-HE35**	**3-1/2**	**7/8**	**294**
16	CSD16051H40	51	M-HE40	4	1	302
16	CSD16051H50	51	M-HE50	5	1	321
16	CSD16057H30	57	M-HE30	3	7/8	322
16	CSD16057H35	57	M-HE35	3-1/2	7/8	321
16	CSD16057H40	57	M-HE40	4	1	328
16	CSD16057H45	57	M-HE45	4-1/2	1	335

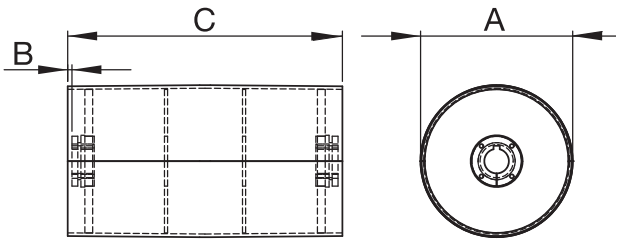
Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	CSD16060H30	60	M-HE30	3	7/8	345
16	CSD16063H25	63	M-HE25	2-1/2	3/4	355
16	**CSD16063H30**	**63**	**M-HE30**	**3**	**7/8**	**358**
16	**CSD16063H35**	**63**	**M-HE35**	**3-1/2**	**7/8**	**357**
16	CSD16063H40	63	M-HE40	4	1	364
16	CSD16063H45	63	M-HE45	4-1/2	1	370
16	CSD16063H50	63	M-HE50	5	1	383
18	CSD18016H25	16	M-HE25	2-1/2	3/4	117
18	CSD18016H35	16	M-HE35	3-1/2	7/8	124
18	CSD18016H40	16	M-HE40	4	1	134
18	CSD18016H45	16	M-HE45	4-1/2	1	154
18	CSD18024H25	24	M-HE25	2-1/2	3/4	149
18	CSD18026H25	26	M-HE25	2-1/2	3/4	157
18	**CSD18026H30**	**26**	**M-HE30**	**3**	**7/8**	**164**
18	**CSD18026H35**	**26**	**M-HE35**	**3-1/2**	**7/8**	**163**
18	CSD18026H40	26	M-HE40	4	1	173
18	CSD18026H50	26	M-HE50	5	1	203
18	CSD18028H25	28	M-HE25	2-1/2	3/4	180
18	CSD18028H30	28	M-HE30	3	7/8	186
18	CSD18028H35	28	M-HE35	3-1/2	7/8	186
18	CSD18028H40	28	M-HE40	4	1	194
18	CSD18030H25	30	M-HE25	2-1/2	3/4	188
18	CSD18032H25	32	M-HE25	2-1/2	3/4	196
18	**CSD18032H30**	**32**	**M-HE30**	**3**	**7/8**	**202**
18	**CSD18032H35**	**32**	**M-HE35**	**3-1/2**	**7/8**	**202**
18	**CSD18032H40**	**32**	**M-HE40**	**4**	**1**	**210**
18	CSD18032H50	32	M-HE50	5	1	239
18	**CSD18034H35**	**34**	**M-HE35**	**3-1/2**	**7/8**	**209**
18	CSD18036H50	36	M-HE50	5	1	255
18	CSD18038H25	38	M-HE25	2-1/2	3/4	220
18	**CSD18038H30**	**38**	**M-HE30**	**3**	**7/8**	**226**
18	**CSD18038H35**	**38**	**M-HE35**	**3-1/2**	**7/8**	**225**
18	**CSD18038H40**	**38**	**M-HE40**	**4**	**1**	**234**
18	CSD18038H45	38	M-HE45	4-1/2	1	254
18	CSD18038H50	38	M-HE50	5	1	262
18	CSD18040H25	40	M-HE25	2-1/2	3/4	243
18	CSD18040H35	40	M-HE35	3-1/2	7/8	247
18	CSD18040H40	40	M-HE40	4	1	255
18	CSD18040H45	40	M-HE45	4-1/2	1	274
18	CSD18040H50	40	M-HE50	5	1	282
18	CSD18044H30	44	M-HE30	3	7/8	264
18	CSD18044H35	44	M-HE35	3-1/2	7/8	263
18	**CSD18044H40**	**44**	**M-HE40**	**4**	**1**	**271**
18	CSD18044H45	44	M-HE45	4-1/2	1	290
18	CSD18044H50	44	M-HE50	5	1	298
18	CSD18044H60	44	M-HE60	6	1-1/8	326
18	CSD18046H45	46	M-HE45	4-1/2	1	342
18	CSD18051H30	51	M-HE30	3	7/8	342
18	**CSD18051H35**	**51**	**M-HE35**	**3-1/2**	**7/8**	**341**
18	**CSD18051H40**	**51**	**M-HE40**	**4**	**1**	**348**
18	CSD18051H45	51	M-HE45	4-1/2	1	367
18	CSD18051H50	51	M-HE50	5	1	375
18	CSD18051H60	51	M-HE60	6	1-1/8	403
18	CSD18054H25	54	M-HE25	2-1/2	3/4	352
18	CSD18054H50	54	M-HE50	5	1	390
18	CSD18057H25	57	M-HE25	2-1/2	3/4	366
18	CSD18057H30	57	M-HE30	3	7/8	371

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty – M-HE Bushed



Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CSD18057H35	57	M-HE35	3-1/2	7/8	371
18	CSD18057H40	57	M-HE40	4	1	378
18	CSD18057H45	57	M-HE45	4-1/2	1	397
18	CSD18057H50	57	M-HE50	5	1	405
18	CSD18057H60	57	M-HE60	6	1-1/8	433
18	CSD18063H25	63	M-HE25	2-1/2	3/4	411
18	CSD18063H30	63	M-HE30	3	7/8	415
18	**CSD18063H35**	**63**	**M-HE35**	**3-1/2**	**7/8**	**414**
18	CSD18063H40	63	M-HE40	4	1	420
18	CSD18063H45	63	M-HE45	4-1/2	1	438
18	CSD18063H50	63	M-HE50	5	1	445
18	CSD18063H60	63	M-HE60	6	1-1/8	473
18	CSD18063H70	63	M-HE70	7	1-1/4	478
20	CSD20010H25	10	M-HE25	2-1/2	3/4	110
20	CSD20012H25	12	M-HE25	2-1/2	3/4	119
20	CSD20020H25	20	M-HE25	2-1/2	3/4	154
20	CSD20020H30	20	M-HE30	3	7/8	162
20	CSD20024H30	24	M-HE30	3	7/8	179
20	CSD20026H25	26	M-HE25	2-1/2	3/4	181
20	**CSD20026H30**	**26**	**M-HE30**	**3**	**7/8**	**188**
20	CSD20026H35	26	M-HE35	3-1/2	7/8	187
20	CSD20026H40	26	M-HE40	4	1	196
20	CSD20026H50	26	M-HE50	5	1	231
20	CSD20028H25	28	M-HE25	2-1/2	3/4	209
20	CSD20028H30	28	M-HE30	3	7/8	215
20	CSD20028H35	28	M-HE35	3-1/2	7/8	214
20	CSD20028H40	28	M-HE40	4	1	223
20	CSD20028H50	28	M-HE50	5	1	256
20	CSD20032H25	32	M-HE25	2-1/2	3/4	227
20	**CSD20032H30**	**32**	**M-HE30**	**3**	**7/8**	**233**
20	**CSD20032H35**	**32**	**M-HE35**	**3-1/2**	**7/8**	**232**
20	**CSD20032H40**	**32**	**M-HE40**	**4**	**1**	**241**
20	CSD20032H50	32	M-HE50	5	1	273
20	CSD20034H25	34	M-HE25	2-1/2	3/4	236
20	CSD20034H35	34	M-HE35	3-1/2	7/8	241
20	CSD20034H40	34	M-HE40	4	1	250
20	CSD20034H45	34	M-HE45	4-1/2	1	273
20	CSD20036H70	36	M-HE70	7	1-1/4	325
20	CSD20038H25	38	M-HE25	2-1/2	3/4	253
20	CSD20038H30	38	M-HE30	3	7/8	259
20	**CSD20038H35**	**38**	**M-HE35**	**3-1/2**	**7/8**	**259**
20	CSD20038H40	38	M-HE40	4	1	267
20	CSD20038H45	38	M-HE45	4-1/2	1	291
20	CSD20038H50	38	M-HE50	5	1	300
20	CSD20038H60	38	M-HE60	6	1-1/8	325
20	CSD20040H25	40	M-HE25	2-1/2	3/4	281
20	CSD20040H30	40	M-HE30	3	7/8	286
20	CSD20040H35	40	M-HE35	3-1/2	7/8	286
20	CSD20040H40	40	M-HE40	4	1	293
20	CSD20040H45	40	M-HE45	4-1/2	1	316
20	CSD20040H50	40	M-HE50	5	1	324
20	CSD20044H30	44	M-HE30	3	7/8	304
20	CSD20044H35	44	M-HE35	3-1/2	7/8	303
20	CSD20044H40	44	M-HE40	4	1	311
20	CSD20044H45	44	M-HE45	4-1/2	1	334
20	CSD20046H35	46	M-HE35	3-1/2	7/8	362
20	CSD20046H50	46	M-HE50	5	1	400

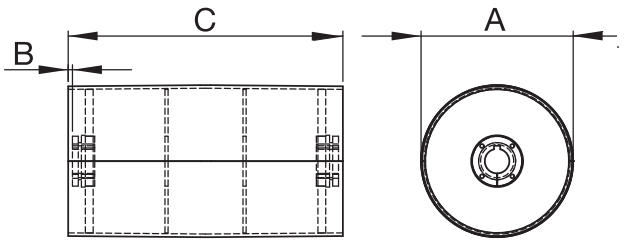
Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CSD20051H25	51	M-HE25	2-1/2	3/4	385
20	CSD20051H30	51	M-HE30	3	7/8	390
20	CSD20051H35	51	M-HE35	3-1/2	7/8	389
20	**CSD20051H40**	**51**	**M-HE40**	**4**	**1**	**397**
20	CSD20051H50	51	M-HE50	5	1	428
20	CSD20054H50	54	M-HE50	5	1	444
20	CSD20057H25	57	M-HE25	2-1/2	3/4	418
20	CSD20057H30	57	M-HE30	3	7/8	423
20	CSD20057H35	57	M-HE35	3-1/2	7/8	422
20	CSD20057H40	57	M-HE40	4	1	430
20	**CSD20057H45**	**57**	**M-HE45**	**4-1/2**	**1**	**452**
20	CSD20057H50	57	M-HE50	5	1	461
20	CSD20060H50	60	M-HE50	5	1	492
20	CSD20063H25	63	M-HE25	2-1/2	3/4	470
20	CSD20063H30	63	M-HE30	3	7/8	474
20	CSD20063H35	63	M-HE35	3-1/2	7/8	473
20	CSD20063H40	63	M-HE40	4	1	480
20	CSD20063H45	63	M-HE45	4-1/2	1	501
20	CSD20063H50	63	M-HE50	5	1	509
20	CSD20063H60	63	M-HE60	6	1-1/8	530
20	CSD20063H70	63	M-HE70	7	1-1/4	541
20	CSD20066H40	66	M-HE40	4	1	588
20	CSD20066H70	66	M-HE70	7	1-1/4	646
20	CSD20076H40	76	M-HE40	4	1	655
20	CSD20076H45	76	M-HE45	4-1/2	1	676
20	CSD20087H35	87	M-HE35	3-1/2	7/8	723
20	CSD20087H45	87	M-HE45	4-1/2	1	750
24	CSD24014H35	14	M-HE35	3-1/2	7/8	203
24	CSD24014H40	14	M-HE40	4	1	212
24	CSD24026H25	26	M-HE25	2-1/2	3/4	261
24	CSD24026H30	26	M-HE30	3	7/8	268
24	CSD24026H35	26	M-HE35	3-1/2	7/8	267
24	CSD24026H40	26	M-HE40	4		276
24	CSD24026H50	26	M-HE50	5		293
24	CSD24028H25	28	M-HE25	2-1/2	3/4	301
24	CSD24028H30	28	M-HE30	3	7/8	306
24	CSD24028H40	28	M-HE40	4	1	313
24	CSD24028H50	28	M-HE50	5	1	328
24	CSD24028H60	28	M-HE60	6	1-1/8	354
24	CSD24030H40	30	M-HE40	4	1	323
24	CSD24032H25	32	M-HE25	2-1/2	3/4	322
24	**CSD24032H30**	**32**	**M-HE30**	**3**	**7/8**	**327**
24	CSD24032H35	32	M-HE35	3-1/2	7/8	326
24	**CSD24032H40**	**32**	**M-HE40**	**4**	**1**	**334**
24	CSD24032H45	32	M-HE45	4-1/2	1	341
24	CSD24032H50	32	M-HE50	5	1	349
24	CSD24032H70	32	M-HE70	7	1-1/4	384
24	CSD24032H80	32	M-HE80	8	1-1/2	424
24	CSD24034H30	34	M-HE30	3	7/8	338
24	CSD24034H45	34	M-HE45	4-1/2	1	351
24	CSD24036H60	36	M-HE60	6	1-1/8	385
24	CSD24038H25	38	M-HE25	2-1/2	3/4	354
24	**CSD24038H30**	**38**	**M-HE30**	**3**	**7/8**	**359**
24	CSD24038H35	38	M-HE35	3-1/2	7/8	358
24	CSD24038H40	38	M-HE40	4	1	366
24	**CSD24038H45**	**38**	**M-HE45**	**4-1/2**	**1**	**372**
24	CSD24038H60	38	M-HE60	6	1-1/8	406

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty – M-HE Bushed



Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CSD24038H70	38	M-HE70	7	1-1/4	416
24	CSD24040H25	40	M-HE25	2-1/2	3/4	394
24	CSD24040H45	40	M-HE45	4-1/2	1	409
24	CSD24040H50	40	M-HE50	5	1	417
24	CSD24040H60	40	M-HE60	6	1-1/8	490
24	CSD24040H70	40	M-HE70	7	1-1/4	447
24	CSD24044H25	44	M-HE25	2-1/2	3/4	415
24	CSD24044H35	44	M-HE35	3-1/2	7/8	417
24	CSD24044H40	44	M-HE40	4	1	424
24	CSD24044H45	44	M-HE45	4-1/2	1	430
24	CSD24044H50	44	M-HE50	5	1	440
24	CSD24044H60	44	M-HE60	6	1-1/8	461
24	CSD24044H70	44	M-HE70	7	1-1/4	468
24	CSD24044H80	44	M-HE80	8	1-1/2	505
24	CSD24046H40	46	M-HE40	4	1	494
24	CSD24046H45	46	M-HE45	4-1/2	1	500
24	CSD24046H50	46	M-HE50	5	1	508
24	CSD24046H60	46	M-HE60	6	1-1/8	531
24	CSD24046H70	46	M-HE70	7	1-1/4	538
24	CSD24051H25	51	M-HE25	2-1/2	3/4	518
24	CSD24051H30	51	M-HE30	3	7/8	521
24	CSD24051H35	51	M-HE35	3-1/2	7/8	520
24	**CSD24051H40**	**51**	**M-HE40**	**4**	**1**	**527**
24	CSD24051H45	51	M-HE45	4-1/2	1	533
24	CSD24051H50	51	M-HE50	5	1	541
24	CSD24051H60	51	M-HE60	6	1-1/8	564
24	CSD24051H70	51	M-HE70	7	1-1/4	571
24	CSD24054H25	54	M-HE25	2-1/2	3/4	537
24	CSD24054H30	54	M-HE30	3	7/8	541
24	CSD24054H50	54	M-HE50	5	1	561
24	CSD24054H60	54	M-HE60	6	1-1/8	584
24	CSD24054H70	54	M-HE70	7	1-1/4	591
24	CSD24057H25	57	M-HE25	2-1/2	3/4	557
24	CSD24057H30	57	M-HE30	3	7/8	561
24	CSD24057H35	57	M-HE35	3-1/2	7/8	560
24	CSD24057H45	57	M-HE45	4-1/2	1	572
24	CSD24057H50	57	M-HE50	5	1	580
24	CSD24057H60	57	M-HE60	6	1-1/8	603
24	CSD24057H70	57	M-HE70	7	1-1/4	610
24	CSD24057H80	57	M-HE80	8	1-1/2	647
24	CSD24063H25	63	M-HE25	2-1/2	3/4	625
24	CSD24063H35	63	M-HE35	3-1/2	7/8	627
24	CSD24063H40	63	M-HE40	4	1	632
24	CSD24063H45	63	M-HE45	4-1/2	1	637
24	CSD24063H50	63	M-HE50	5	1	644
24	CSD24063H60	63	M-HE60	6	1-1/8	665
24	CSD24063H70	63	M-HE70	7	1-1/4	670
24	CSD24063H80	63	M-HE80	8	1-1/2	704
24	CSD24066H50	66	M-HE50	5	1	779
24	CSD24066H60	66	M-HE60	6	1-1/8	778
24	CSD24066H70	66	M-HE70	7	1-1/4	800
24	CSD24076H45	76	M-HE45	4-1/2	1	853
24	CSD24087H45	87	M-HE45	4-1/2	1	941
30	CSD30016H40	16	M-HE40	4	1	509
30	CSD30032H35	32	M-HE35	3-1/2	7/8	516
30	CSD30032H40	32	M-HE40	4	1	523
30	CSD30032H45	32	M-HE45	4-1/2	1	616
30	CSD30032H50	32	M-HE50	5	1	638

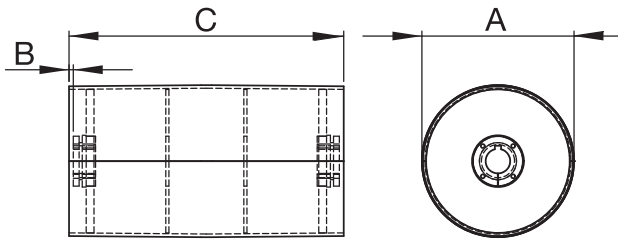
Standard Duty Drum Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
30	CSD30036H60	36	M-HE60	6	1-1/8	670
30	CSD30038H40	38	M-HE40	4	1	566
30	CSD30038H45	38	M-HE45	4-1/2	1	572
30	CSD30038H60	38	M-HE60	6	1-1/8	687
30	CSD30038H70	38	M-HE70	7	1-1/4	691
30	CSD30040H50	40	M-HE50	5	1	717
30	CSD30040H60	40	M-HE60	6	1-1/8	726
30	CSD30040H70	40	M-HE70	7	1-1/4	745
30	CSD30044H40	44	M-HE40	4	1	659
30	CSD30044H50	44	M-HE50	5	1	757
30	CSD30044H60	44	M-HE60	6	1-1/8	776
30	CSD30044H70	44	M-HE70	7	1-1/4	778
30	CSD30044H80	44	M-HE80	8	1-1/2	810
30	CSD30046H30	46	M-HE30	3	7/8	653
30	CSD30046H50	46	M-HE50	5	1	757
30	CSD30046H60	46	M-HE60	6	1-1/8	776
30	CSD30046H70	46	M-HE70	7	1-1/4	795
30	CSD30051H45	51	M-HE45	4-1/2	1	723
30	CSD30051H50	51	M-HE50	5	1	815
30	CSD30051H70	51	M-HE70	7	1-1/4	835
30	CSD30051H80	51	M-HE80	8	1-1/2	867
30	CSD30054H50	54	M-HE50	5	1	926
30	CSD30054H60	54	M-HE60	6	1-1/8	945
30	CSD30054H80	54	M-HE80	8	1-1/2	978
30	CSD30057H40	57	M-HE40	4	1	859
30	CSD30057H45	57	M-HE45	4-1/2	1	865
30	CSD30057H50	57	M-HE50	5	1	956
30	CSD30057H60	57	M-HE60	6	1-1/8	974
30	CSD30057H70	57	M-HE70	7	1-1/4	977
30	CSD30057H80	57	M-HE80	8	1-1/2	1008
30	CSD30060H50	60	M-HE50	5	1	1027
30	CSD30063H35	63	M-HE35	3-1/2	7/8	956
30	CSD30063H45	63	M-HE45	4-1/2	1	967
30	CSD30063H50	63	M-HE50	5	1	1057
30	CSD30063H60	63	M-HE60	6	1-1/8	1072
30	CSD30063H70	63	M-HE70	7	1-1/4	1073
30	CSD30063H80	63	M-HE80	8	1-1/2	1102
30	CSD30076H80	76	M-HE80	8	1-1/2	1273
36	CSD36044H50	44	M-HE50	5	1	1003
36	CSD36044H70	44	M-HE70	7	1-1/4	1023
36	CSD36044H80	44	M-HE80	8	1-1/2	1055
36	CSD36046H50	46	M-HE50	5	1	1022
36	CSD36046H60	46	M-HE60	6	1-1/8	1041
36	CSD36051H40	51	M-HE40	4	1	930
36	CSD36051H45	51	M-HE45	4-1/2	1	936
36	CSD36051H50	51	M-HE50	5	1	1072
36	CSD36051H60	51	M-HE60	6	1-1/8	1091
36	CSD36051H70	51	M-HE70	7	1-1/4	1092
36	CSD36051H80	51	M-HE80	8	1-1/2	1124
36	CSD36057H60	57	M-HE60	6	1-1/8	1260
36	CSD36057H70	57	M-HE70	7	1-1/4	1262
36	CSD36057H80	57	M-HE80	8	1-1/2	1293
36	CSD36060H40	60	M-HE40	4	1	1201
36	CSD36063H40	63	M-HE40	4	1	1237
36	CSD36063H50	63	M-HE50	5	1	1375
36	CSD36063H60	63	M-HE60	6	1-1/8	1392
36	CSD36063H70	63	M-HE70	7	1-1/4	1391
36	CSD36063H80	63	M-HE80	8	1-1/2	1420

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Standard Duty – M-HE Bushed (Lagged)



Standard Duty Drum — M-HE Bushed (Lagged)

Dia. (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Lagging	Approx. Weight (lbs)
6	CSD06020H25L3H	20	M-HE25	2-1/2	3/4	3/8	37
6	CSD06032H25L3H	32	M-HE25	2-1/2	3/4	3/8	54
8	CSD08026H25L3H	26	M-HE25	2-1/2	3/4	3/8	59
8	CSD08032H25L3H	32	M-HE25	2-1/2	3/4	3/8	72
10	**CSD10026H25L3H**	**26**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**83**
10	CSD10026H30L3H	26	M-HE30	3	7/8	3/8	84
10	**CSD10032H25L3H**	**32**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**94**
10	CSD10044H25L3H	44	M-HE25	2-1/2	3/4	3/8	132
10	CSD10044H30L3H	44	M-HE30	3	7/8	3/8	125
10	CSD10051H30L3H	51	M-HE30	3	7/8	3/8	148
12	**CSD12020H25L3H**	**20**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**85**
12	CSD12020H35L3H	20	M-HE35	3-1/2	7/8	3/8	85
12	**CSD12026H25L3H**	**26**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**95**
12	**CSD12026H30L3H**	**26**	**M-HE30**	**3**	**7/8**	**3/8**	**102**
12	**CSD12032H25L3H**	**32**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**123**
12	**CSD12032H30L3H**	**32**	**M-HE30**	**2-1/2**	**3/4**	**3/8**	**123**
12	CSD12032H35L3H	32	M-HE35	3-1/2	7/8	3/8	117
12	**CSD12038H25L3H**	**38**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**133**
12	**CSD12038H30L3H**	**38**	**M-HE30**	**3**	**7/8**	**3/8**	**141**
12	CSD12038H35L3H	38	M-HE35	3-1/2	7/8	3/8	140
12	**CSD12044H25L3H**	**44**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**155**
12	**CSD12044H30L3H**	**44**	**M-HE30**	**3**	**7/8**	**3/8**	**163**
12	CSD12051H25L3H	51	M-HE25	2-1/2	3/4	3/8	174
12	**CSD12051H30L3H**	**51**	**M-HE30**	**3**	**7/8**	**3/8**	**182**
14	CSD14020H30L3H	20	M-HE30	3	7/8	3/8	103
14	**CSD14026H25L3H**	**26**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**115**
14	**CSD14026H30L3H**	**26**	**M-HE30**	**3**	**7/8**	**3/8**	**122**
14	**CSD14032H25L3H**	**32**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**143**
14	**CSD14032H30L3H**	**32**	**M-HE30**	**3**	**7/8**	**3/8**	**149**
14	**CSD14038H30L3H**	**38**	**M-HE30**	**3**	**7/8**	**3/8**	**168**
14	CSD14038H35L3H	38	M-HE35	3-1/2	7/8	3/8	167
14	CSD14044H25L3H	44	M-HE25	2-1/2	3/4	3/8	189
14	**CSD14044H30L3H**	**44**	**M-HE30**	**3**	**7/8**	**3/8**	**194**
14	CSD14044H35L3H	44	M-HE35	3-1/2	7/8	3/8	193
14	CSD14051H30L3H	51	M-HE30	3	7/8	3/8	216
14	**CSD14051H35L3H**	**51**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**215**
14	CSD14051H40L3H	51	M-HE40	4	1	3/8	226
14	CSD14063H35L3H	63	M-HE35	3-1/2	7/8	3/8	356
16	CSD16020H30L3H	20	M-HE30	3	7/8	3/8	122
16	**CSD16026H25L3H**	**26**	**M-HE25**	**2-1/2**	**3/4**	**3/8**	**144**
16	**CSD16026H30L3H**	**26**	**M-HE30**	**3**	**7/8**	**3/8**	**144**
16	CSD16026H35L3H	26	M-HE35	3-1/2	7/8	3/8	143
16	CSD16026H40L2H	26	M-HE40	4	1	1/4	152
16	CSD16026H40L3H	26	M-HE40	4	1	3/8	153
16	**CSD16032H30L3H**	**32**	**M-HE30**	**3**	**7/8**	**3/8**	**175**
16	**CSD16032H35L3H**	**32**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**175**
16	CSD16032H40L3H	32	M-HE40	4	1	3/8	184

Standard Duty Drum — M-HE Bushed (Lagged)

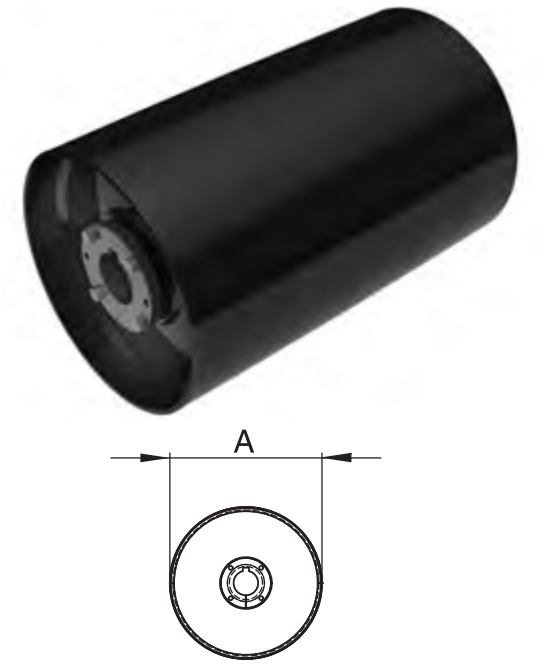
Dia. (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Lagging	Approx. Weight (lbs)
16	CSD16038H25L3H	38	M-HE25	2-1/2	3/4	3/8	192
16	**CSD16038H30L3H**	**38**	**M-HE30**	**3**	**7/8**	**3/8**	**198**
16	**CSD16038H35L3H**	**38**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**197**
16	CSD16038H40L3H	38	M-HE40	4	1	3/8	206
16	**CSD16044H30L3H**	**44**	**M-HE30**	**3**	**7/8**	**3/8**	**230**
16	**CSD16051H35L3H**	**51**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**299**
16	**CSD16063H35L3H**	**63**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**235**
18	**CSD18026H30L3H**	**26**	**M-HE30**	**3**	**7/8**	**3/8**	**176**
18	**CSD18026H35L3H**	**26**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**176**
18	CSD18026H40L3H	26	M-HE40	4	1	3/8	176
18	CSD18026H50L3H	26	M-HE50	5	1	3/8	206
18	**CSD18032H30L3H**	**32**	**M-HE30**	**3**	**7/8**	**3/8**	**205**
18	**CSD18032H35L3H**	**32**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**205**
18	**CSD18032H40L3H**	**32**	**M-HE40**	**4**	**1**	**3/8**	**213**
18	CSD18032H45L3H	32	M-HE45	4-1/2	1	3/8	233
18	**CSD18038H30L3H**	**38**	**M-HE30**	**3**	**7/8**	**3/8**	**230**
18	**CSD18038H35L3H**	**38**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**229**
18	**CSD18038H40L3H**	**38**	**M-HE40**	**4**	**1**	**3/8**	**238**
18	CSD18044H35L3H	44	M-HE35	3-1/2	7/8	3/8	267
18	**CSD18044H40L3H**	**44**	**M-HE40**	**4**	**1**	**3/8**	**275**
18	**CSD18051H35L3H**	**51**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**394**
20	CSD20026H30L3H	26	M-HE30	3	7/8	3/8	191
20	CSD20026H35L3H	26	M-HE35	3-1/2	7/8	3/8	190
20	CSD20026H40L3H	26	M-HE40	4	1	3/8	200
20	CSD20026H50L3H	26	M-HE50	5	1	3/8	234
20	CSD20032H30L3H	32	M-HE30	3	7/8	3/8	236
20	CSD20032H35L3H	32	M-HE35	3-1/2	7/8	3/8	235
20	CSD20032H40L3H	32	M-HE40	4	1	3/8	244
20	CSD20032H50L3H	32	M-HE50	5	1	3/8	277
20	CSD20038H30L3H	38	M-HE30	3	7/8	3/8	263
20	**CSD20038H35L3H**	**38**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**262**
20	CSD20038H40L3H	38	M-HE40	4	1	3/8	271
20	CSD20044H40L3H	44	M-HE40	4	1	3/8	315
20	**CSD20051H40L3H**	**51**	**M-HE40**	**4**	**1**	**3/8**	**402**
24	CSD24026H35L3H	26	M-HE35	3-1/2	7/8	3/8	270
24	CSD24026H40L3H	26	M-HE40	4	1	3/8	279
24	CSD24026H45L3H	26	M-HE45	4-1/2	1	3/8	286
24	CSD24032H30L3H	32	M-HE30	3	7/8	3/8	331
24	CSD24032H35L3H	32	M-HE35	3-1/2	7/8	3/8	330
24	**CSD24032H40L3H**	**32**	**M-HE40**	**4**	**1**	**3/8**	**338**
24	CSD24032H45L3H	32	M-HE45	4-1/2	1	3/8	344
24	CSD24038H35L3H	38	M-HE35	3-1/2	7/8	3/8	263
24	CSD24038H40L3H	38	M-HE40	4	1	3/8	270
24	**CSD24038H45L3H**	**38**	**M-HE45**	**4-1/2**	**1**	**3/8**	**277**
24	CSD24044H40L3H	44	M-HE40	4	1	3/8	429
24	CSD24044H45L3H	44	M-HE45	4-1/2	1	3/8	435
24	CSD24051H40L3H	51	M-HE40	4	1	3/8	533

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty

Mine Duty Drum Pulleys



Martin offers Mine Duty Drum Pulleys using a minimum 3/8" rim (up to 20" diameter), 1/2" minimum rim on 24" and larger diameter, 1" minimum end discs and 3/8" center discs. Each Mine Duty Drum Pulley features a two piece rolled rim, which has been fabricated on either of our flat or custom crowned roll machines. The rims are trimmed and hydraulically seated around the heavy end discs to ensure maximum concentricity. Once the pulley is formed, Martin utilizes a double or triple pass submerged arc weldment to ensure optimum connection of its individual components.

FEATURES:

- 10" to 60" Diameter
- 3/8" thru 1" Rims
- 1", 1-1/4", and Heavier End Discs
- 3/8" Center Plates
- Several Hub/Bushing Systems Available
- Double Sub-Arc Weldments

Martin's Mine Duty Drum Pulleys are manufactured with Crown face.

Mine Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
10	CMD10026X30	26	MXT30	3	7/8	112
10	CMD10032X30	32	MXT30	3	7/8	138
10	CMD10044X30	44	MXT30	3	7/8	183
10	CMD10051X35	51	MXT35	3-1/2	7/8	203
12	CMD12012X30	12	MXT30	3	7/8	88
12	CMD12012X35	12	MXT35	3-1/2	7/8	97
12	CMD12014X30	14	MXT30	3	7/8	96
12	CMD12014X35	14	MXT35	3-1/2	7/8	106
12	CMD12016X30	16	MXT30	3	7/8	104
12	CMD12016X35	16	MXT35	3-1/2	7/8	114
12	CMD12018X30	18	MXT30	3	7/8	112
12	CMD12018X35	18	MXT35	3-1/2	7/8	122
12	CMD12020X30	20	MXT30	3	7/8	120
12	CMD12020X35	20	MXT35	3-1/2	7/8	130
12	CMD12022X30	22	MXT30	3	7/8	128
12	CMD12022X35	22	MXT35	3-1/2	7/8	138
12	CMD12024X30	24	MXT30	3	7/8	136
12	CMD12024X35	24	MXT35	3-1/2	7/8	146
12	**CMD12026X30**	**26**	**MXT30**	**3**	**7/8**	**144**
12	CMD12026X35	26	MXT35	3-1/2	7/8	154
12	CMD12026X40	26	MXT40	4	1	154
12	CMD12030X30	30	MXT30	3	7/8	168
12	CMD12030X35	30	MXT35	3-1/2	7/8	177
12	**CMD12032X30**	**32**	**MXT30**	**3**	**7/8**	**176**
12	CMD12032X35	32	MXT35	3-1/2	7/8	185
12	CMD12032X40	32	MXT40	4	1	185
12	CMD12036X30	36	MXT30	3	7/8	192
12	CMD12036X35	36	MXT35	3-1/2	7/8	201
12	**CMD12038X30**	**38**	**MXT30**	**3**	**7/8**	**200**
12	CMD12038X35	38	MXT35	3-1/2	7/8	209
12	CMD12038X40	38	MXT40	4	1	209
12	CMD12040X30	40	MXT30	3	7/8	217
12	CMD12040X35	40	MXT35	3-1/2	7/8	225
12	CMD12040X40	40	MXT40	4	1	224
12	CMD12042X30	42	MXT30	3	7/8	225
12	CMD12042X35	42	MXT35	3-1/2	7/8	233
12	**CMD12044X30**	**44**	**MXT30**	**3**	**7/8**	**233**

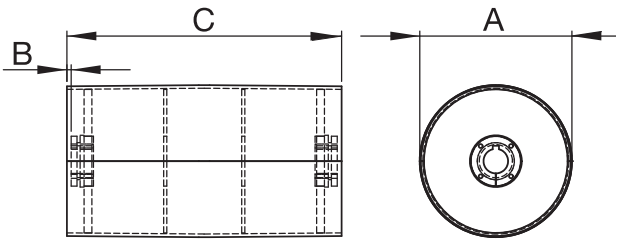
Mine Duty Drum Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	**CMD12044X35**	**44**	**MXT35**	**3-1/2**	**7/8**	**241**
12	CMD12046X30	46	MXT30	3	7/8	240
12	CMD12046X35	46	MXT35	3-1/2	7/8	249
12	CMD12051X30	51	MXT30	3	7/8	260
12	CMD12051X35	51	MXT35	3-1/2	7/8	269
12	CMD12051X40	51	MXT40	4	1	267
12	CMD12057X30	57	MXT30	3	7/8	284
12	CMD12057X35	57	MXT35	3-1/2	7/8	293
12	CMD12057X45	57	MXT45	4-1/2	1	289
12	CMD12063X30	63	MXT30	3	7/8	316
12	CMD12063X35	63	MXT35	3-1/2	7/8	324
14	CMD14012X30	12	MXT30	3	7/8	141
14	CMD14012X35	12	MXT35	3-1/2	7/8	131
14	CMD14012X40	12	MXT40	4	1	135
14	CMD14014X30	14	MXT30	3	7/8	150
14	CMD14014X35	14	MXT35	3-1/2	7/8	140
14	CMD14014X40	14	MXT40	4	1	144
14	CMD14016X30	16	MXT30	3	7/8	160
14	CMD14016X35	16	MXT35	3-1/2	7/8	149
14	CMD14016X40	16	MXT40	4	1	153
14	CMD14018X30	18	MXT30	3	7/8	169
14	CMD14018X35	18	MXT35	3-1/2	7/8	158
14	CMD14018X40	18	MXT40	4	1	162
14	CMD14020X30	20	MXT30	3	7/8	178
14	CMD14020X35	20	MXT35	3-1/2	7/8	168
14	CMD14020X40	20	MXT40	4	1	172
14	CMD14022X30	22	MXT30	3	7/8	187
14	CMD14022X35	22	MXT35	3-1/2	7/8	177
14	CMD14022X40	22	MXT40	4	1	181
14	CMD14024X30	24	MXT30	3	7/8	197
14	CMD14024X35	24	MXT35	3-1/2	7/8	186
14	CMD14024X40	24	MXT40	4	1	190
14	**CMD14026X30**	**26**	**MXT30**	**3**	**7/8**	**206**
14	CMD14026X35	26	MXT35	3-1/2	7/8	195
14	CMD14026X40	26	MXT40	4	1	199
14	CMD14030X30	30	MXT30	3	7/8	235
14	CMD14030X35	30	MXT35	3-1/2	7/8	224

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	CMD14030X40	30	MXT40	4	1	229
14	**CMD14032X30**	**32**	**MXT30**	**3**	**7/8**	**244**
14	**CMD14032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**234**
14	CMD14032X40	32	MXT40	4	1	238
14	**CMD14038X30**	**38**	**MXT30**	**3**	**7/8**	**272**
14	**CMD14038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**261**
14	**CMD14038X40**	**38**	**MXT40**	**4**	**1**	**266**
14	CMD14040X30	40	MXT30	3	7/8	291
14	CMD14040X35	40	MXT35	3-1/2	7/8	281
14	CMD14040X40	40	MXT40	4	1	286
14	CMD14042X30	42	MXT30	3	7/8	300
14	CMD14042X35	42	MXT35	3-1/2	7/8	290
14	CMD14042X40	42	MXT40	4	1	295
14	CMD14044X30	44	MXT30	3	7/8	310
14	CMD14044X35	44	MXT35	3-1/2	7/8	299
14	CMD14044X40	44	MXT40	4	1	305
14	CMD14046X30	46	MXT30	3	7/8	319
14	CMD14046X35	46	MXT35	3-1/2	7/8	308
14	CMD14046X40	46	MXT40	4	1	314
14	CMD14051X30	51	MXT30	3	7/8	342
14	CMD14051X35	51	MXT35	3-1/2	7/8	331
14	CMD14051X40	51	MXT40	4	1	337
14	CMD14051X50	51	MXT50	5	1	335
14	CMD14054X30	54	MXT30	3	7/8	355
14	CMD14054X35	54	MXT35	3-1/2	7/8	345
14	CMD14054X40	54	MXT40	4	1	350
14	CMD14057X30	57	MXT30	3	7/8	369
14	CMD14057X35	57	MXT35	3-1/2	7/8	359
14	CMD14057X40	57	MXT40	4	1	364
14	CMD14060X30	60	MXT30	3	7/8	393
14	CMD14060X35	60	MXT35	3-1/2	7/8	383
14	CMD14060X40	60	MXT40	4	1	389
14	CMD14063X30	63	MXT30	3	7/8	407
14	CMD14063X35	63	MXT35	3-1/2	7/8	397
14	CMD14063X40	63	MXT40	4	1	403
14	CMD14066X30	66	MXT30	3	7/8	441
14	CMD14066X35	66	MXT35	3-1/2	7/8	431
14	CMD14066X40	66	MXT40	4	1	438
16	CMD16012X30	12	MXT30	3	7/8	174
16	CMD16012X35	12	MXT35	3-1/2	7/8	164
16	CMD16012X40	12	MXT40	4	1	168
16	CMD16014X30	14	MXT30	3	7/8	185
16	CMD16014X35	14	MXT35	3-1/2	7/8	175
16	CMD16014X40	14	MXT40	4	1	179
16	CMD16016X30	16	MXT30	3	7/8	196
16	CMD16016X35	16	MXT35	3-1/2	7/8	185
16	CMD16016X40	16	MXT40	4	1	189
16	CMD16018X30	18	MXT30	3	7/8	206
16	CMD16018X35	18	MXT35	3-1/2	7/8	196
16	CMD16018X40	18	MXT40	4	1	200
16	CMD16020X30	20	MXT30	3	7/8	217
16	CMD16020X35	20	MXT35	3-1/2	7/8	206
16	CMD16020X40	20	MXT40	4	1	210
16	**CMD16026X30**	**26**	**MXT30**	**3**	**7/8**	**248**
16	CMD16026X35	26	MXT35	3-1/2	7/8	238

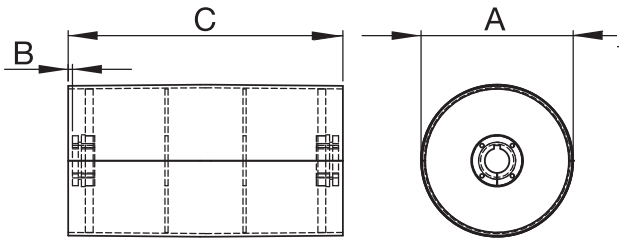
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	CMD16026X40	26	MXT40	4	1	242
16	CMD16030X30	30	MXT30	3	7/8	285
16	CMD16030X35	30	MXT35	3-1/2	7/8	274
16	CMD16030X40	30	MXT40	4	1	277
16	**CMD16032X30**	**32**	**MXT30**	**3**	**7/8**	**295**
16	**CMD16032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**285**
16	CMD16032X40	32	MXT40	4	1	287
16	CMD16036X30	36	MXT30	3	7/8	316
16	CMD16036X35	36	MXT35	3-1/2	7/8	306
16	CMD16036X40	36	MXT40	4	1	308
16	**CMD16038X30**	**38**	**MXT30**	**3**	**7/8**	**327**
16	**CMD16038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**316**
16	**CMD16038X40**	**38**	**MXT40**	**4**	**1**	**319**
16	CMD16038X45	38	MXT45	4-1/2	1	319
16	CMD16038X50	38	MXT50	5	1	322
16	CMD16040X30	40	MXT30	3	7/8	352
16	CMD16040X35	40	MXT35	3-1/2	7/8	342
16	CMD16040X40	40	MXT40	4	1	343
16	CMD16040X50	40	MXT50	5	1	346
16	**CMD16044X30**	**44**	**MXT30**	**3**	**7/8**	**373**
16	**CMD16044X35**	**44**	**MXT35**	**3-1/2**	**7/8**	**363**
16	**CMD16044X40**	**44**	**MXT40**	**4**	**1**	**364**
16	CMD16044X50	44	MXT50	5	1	367
16	CMD16046X30	46	MXT30	3	7/8	384
16	CMD16046X35	46	MXT35	3-1/2	7/8	373
16	CMD16046X40	46	MXT40	4	1	374
16	CMD16046X50	46	MXT50	5	1	378
16	CMD16051X30	51	MXT30	3	7/8	410
16	CMD16051X35	51	MXT35	3-1/2	7/8	400
16	**CMD16051X40**	**51**	**MXT40**	**4**	**1**	**400**
16	CMD16051X45	51	MXT45	4-1/2	1	400
16	CMD16051X50	51	MXT50	5	1	404
16	CMD16054X30	54	MXT30	3	7/8	426
16	CMD16054X35	54	MXT35	3-1/2	7/8	415
16	CMD16054X40	54	MXT40	4	1	116
16	CMD16057X30	57	MXT30	3	7/8	441
16	CMD16057X35	57	MXT35	3-1/2	7/8	431
16	CMD16057X40	57	MXT40	4	1	432
16	CMD16057X45	57	MXT45	4-1/2	1	432
16	CMD16057X60	57	MXT60	6	1-1/8	439
16	CMD16060X30	60	MXT30	3	7/8	472
16	CMD16060X35	60	MXT35	3-1/2	7/8	462
16	CMD16060X40	60	MXT40	4	1	461
16	CMD16063X30	63	MXT30	3	7/8	488
16	CMD16063X35	63	MXT35	3-1/2	7/8	477
16	CMD16063X40	63	MXT40	4	1	476
16	CMD16063X45	63	MXT45	4-1/2	1	476
16	CMD16066X30	66	MXT30	3	7/8	533
16	CMD16066X35	66	MXT35	3-1/2	7/8	523
16	CMD16066X40	66	MXT40	4	1	518
18	CMD18012X30	12	MXT30	3	7/8	211
18	CMD18012X35	12	MXT35	3-1/2	7/8	201
18	CMD18012X40	12	MXT40	4	1	205
18	CMD18014X30	14	MXT30	3	7/8	223
18	CMD18014X35	14	MXT35	3-1/2	7/8	213

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CMD18014X40	14	MXT40	4	1	217
18	CMD18014X45	14	MXT45	4-1/2	1	217
18	CMD18016X30	16	MXT30	3	7/8	235
18	CMD18016X35	16	MXT35	3-1/2	7/8	225
18	CMD18016X40	16	MXT40	4	1	229
18	CMD18016X45	16	MXT45	4-1/2	1	229
18	CMD18018X30	18	MXT30	3	7/8	247
18	CMD18018X35	18	MXT35	3-1/2	7/8	237
18	CMD18018X40	18	MXT40	4	1	241
18	CMD18018X45	18	MXT45	4-1/2	1	241
18	CMD18020X30	20	MXT30	3	7/8	259
18	CMD18020X35	20	MXT35	3-1/2	7/8	248
18	CMD18020X40	20	MXT40	4	1	252
18	CMD18020X45	20	MXT45	4-1/2	1	252
18	CMD18022X30	22	MXT30	3	7/8	271
18	CMD18022X35	22	MXT35	3-1/2	7/8	260
18	CMD18022X40	22	MXT40	4	1	264
18	CMD18022X45	22	MXT45	4-1/2	1	264
18	CMD18024X30	24	MXT30	3	7/8	282
18	CMD18024X35	24	MXT35	3-1/2	7/8	272
18	CMD18024X40	24	MXT40	4	1	276
18	CMD18024X45	24	MXT45	4-1/2	1	276
18	**CMD18026X30**	**26**	**MXT30**	**3**	**7/8**	**294**
18	**CMD18026X35**	**26**	**MXT35**	**3-1/2**	**7/8**	**284**
18	CMD18026X40	26	MXT40	4	1	288
18	CMD18026X45	26	MXT45	4-1/2	1	288
18	CMD18026X50	26	MXT50	5	1	292
18	CMD18030X30	30	MXT30	3	7/8	339
18	CMD18030X35	30	MXT35	3-1/2	7/8	328
18	CMD18030X40	30	MXT40	4	1	331
18	CMD18030X45	30	MXT45	4-1/2	1	331
18	**CMD18032X30**	**32**	**MXT30**	**3**	**7/8**	**350**
18	**CMD18032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**340**
18	**CMD18032X40**	**32**	**MXT40**	**4**	**1**	**342**
18	CMD18032X45	32	MXT45	4-1/2	1	343
18	CMD18036X30	36	MXT30	3	7/8	374
18	CMD18036X35	36	MXT35	3-1/2	7/8	364
18	CMD18036X40	36	MXT40	4	1	366
18	CMD18036X45	36	MXT45	4-1/2	1	366
18	CMD18036X50	36	MXT50	5	1	368
18	**CMD18038X30**	**38**	**MXT30**	**3**	**7/8**	**386**
18	**CMD18038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**376**
18	**CMD18038X40**	**38**	**MXT40**	**4**	**1**	**378**
18	CMD18038X45	38	MXT45	4-1/2	1	378
18	CMD18038X50	38	MXT50	5	1	380
18	CMD18040X30	40	MXT30	3	7/8	418
18	CMD18040X35	40	MXT35	3-1/2	7/8	408
18	CMD18040X40	40	MXT40	4	1	409
18	CMD18040X45	40	MXT45	4-1/2	1	409
18	CMD18042X30	42	MXT30	3	7/8	430
18	CMD18042X35	42	MXT35	3-1/2	7/8	420
18	CMD18042X40	42	MXT40	4	1	420
18	CMD18042X45	42	MXT45	4-1/2	1	420
18	CMD18044X30	44	MXT30	3	7/8	442

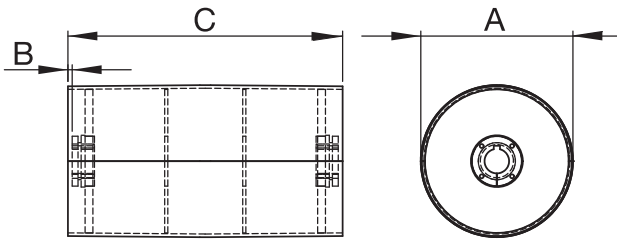
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	**CMD18044X35**	**44**	**MXT35**	**3-1/2**	**7/8**	**432**
18	**CMD18044X40**	**44**	**MXT40**	**4**	**1**	**432**
18	CMD18044X45	44	MXT45	4-1/2	1	432
18	CMD18044X50	44	MXT50	5	1	432
18	CMD18044X60	44	MXT60	6	1-1/8	440
18	CMD18046X30	46	MXT30	3	7/8	454
18	CMD18046X35	46	MXT35	3-1/2	7/8	443
18	CMD18046X40	46	MXT40	4	1	444
18	CMD18046X45	46	MXT45	4-1/2	1	444
18	CMD18046X50	46	MXT50	5	1	444
18	CMD18051X30	51	MXT30	3	7/8	483
18	CMD18051X35	51	MXT35	3-1/2	7/8	473
18	**CMD18051X40**	**51**	**MXT40**	**4**	**1**	**473**
18	**CMD18051X45**	**51**	**MXT45**	**4-1/2**	**1**	**474**
18	CMD18051X50	51	MXT50	5	1	473
18	CMD18051X60	51	MXT60	6	1-1/8	481
18	CMD18054X30	54	MXT30	3	7/8	501
18	CMD18054X35	54	MXT35	3-1/2	7/8	491
18	CMD18054X40	54	MXT40	4	1	491
18	CMD18054X45	54	MXT45	4-1/2	1	491
18	CMD18057X35	57	MXT35	3-1/2	7/8	508
18	CMD18057X40	57	MXT40	4	1	509
18	CMD18057X45	57	MXT45	4-1/2	1	509
18	CMD18057X50	57	MXT50	5	1	509
18	CMD18057X60	57	MXT60	6	1-1/8	516
18	CMD18060X30	60	MXT30	3	7/8	556
18	CMD18060X35	60	MXT35	3-1/2	7/8	546
18	CMD18060X40	60	MXT40	4	1	545
18	CMD18060X45	60	MXT45	4-1/2	1	545
18	CMD18063X30	63	MXT30	3	7/8	574
18	CMD18063X35	63	MXT35	3-1/2	7/8	564
18	CMD18063X40	63	MXT40	4	1	563
18	CMD18063X45	63	MXT45	4-1/2	1	563
18	CMD18063X50	63	MXT50	5	1	560
18	CMD18066X30	66	MXT30	3	7/8	632
18	CMD18066X35	66	MXT35	3-1/2	7/8	622
18	CMD18066X40	66	MXT40	4	1	617
18	CMD18066X45	66	MXT45	4-1/2	1	617
18	CMD18066X50	66	MXT50	5	1	610
20	CMD20012X30	12	MXT30	3	7/8	251
20	CMD20012X35	12	MXT35	3-1/2	7/8	241
20	CMD20012X40	12	MXT40	4	1	245
20	CMD20014X30	14	MXT30	3	7/8	265
20	CMD20014X35	14	MXT35	3-1/2	7/8	255
20	CMD20014X40	14	MXT40	4	1	259
20	CMD20014X45	14	MXT45	4-1/2	1	259
20	CMD20016X30	16	MXT30	3	7/8	278
20	CMD20016X35	16	MXT35	3-1/2	7/8	268
20	CMD20016X40	16	MXT40	4	1	272
20	CMD20016X45	16	MXT45	4-1/2	1	272
20	CMD20018X30	18	MXT30	3	7/8	291
20	CMD20018X35	18	MXT35	3-1/2	7/8	281
20	CMD20018X40	18	MXT40	4	1	285
20	CMD20018X45	18	MXT45	4-1/2	1	285
20	CMD20020X30	20	MXT30	3	7/8	304

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CMD20020X35	20	MXT35	3-1/2	7/8	294
20	CMD20020X40	20	MXT40	4	1	298
20	CMD20020X45	20	MXT45	4-1/2	1	298
20	CMD20022X30	22	MXT30	3	7/8	318
20	CMD20022X35	22	MXT35	3-1/2	7/8	307
20	CMD20022X40	22	MXT40	4	1	311
20	CMD20022X45	22	MXT45	4-1/2	1	311
20	CMD20024X30	24	MXT30	3	7/8	331
20	CMD20024X35	24	MXT35	3-1/2	7/8	320
20	CMD20024X40	24	MXT40	4	1	324
20	CMD20024X45	24	MXT45	4-1/2	1	225
20	CMD20024X60	24	MXT60	6	1-1/8	337
20	CMD20024X70	24	MXT70	7	1-1/4	356
20	CMD20024X80	24	MXT80	8	1-1/2	388
20	CMD20026X30	26	MXT30	3	7/8	344
20	**CMD20026X35**	**26**	**MXT35**	**3-1/2**	**7/8**	**334**
20	CMD20026X40	26	MXT40	4	1	338
20	CMD20026X45	26	MXT45	4-1/2	1	338
20	CMD20030X30	30	MXT30	3	7/8	397
20	CMD20030X35	30	MXT35	3-1/2	7/8	387
20	CMD20030X40	30	MXT40	4	1	389
20	CMD20030X45	30	MXT45	4-1/2	1	389
20	**CMD20032X30**	**32**	**MXT30**	**3**	**7/8**	**410**
20	**CMD20032X35**	**32**	**MXT35**	**3-1/2**	**7/8**	**400**
20	**CMD20032X40**	**32**	**MXT40**	**4**	**1**	**402**
20	CMD20032X45	32	MXT45	4-1/2	1	402
20	CMD20036X30	36	MXT30	3	7/8	436
20	CMD20036X35	36	MXT35	3-1/2	7/8	426
20	CMD20036X40	36	MXT40	4	1	428
20	CMD20036X45	36	MXT45	4-1/2	1	428
20	**CMD20038X30**	**38**	**MXT30**	**3**	**7/8**	**450**
20	**CMD20038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**439**
20	**CMD20038X40**	**38**	**MXT40**	**4**	**1**	**442**
20	CMD20038X45	38	MXT45	4-1/2	1	442
20	CMD20038X50	38	MXT50	5	1	443
20	CMD20038X60	38	MXT60	6	1-1/8	449
20	CMD20040X30	40	MXT30	3	7/8	489
20	CMD20040X35	40	MXT35	3-1/2	7/8	479
20	CMD20040X40	40	MXT40	4	1	479
20	CMD20040X45	40	MXT45	4-1/2	1	480
20	CMD20040X50	40	MXT50	5	1	479
20	CMD20040X60	40	MXT60	6	1-1/8	482
20	CMD20042X30	42	MXT30	3	7/8	502
20	CMD20042X35	42	MXT35	3-1/2	7/8	492
20	CMD20042X40	42	MXT40	4	1	493
20	CMD20042X45	42	MXT45	4-1/2	1	493
20	CMD20044X30	44	MXT30	3	7/8	515
20	**CMD20044X35**	**44**	**MXT35**	**3-1/2**	**7/8**	**505**
20	**CMD20044X40**	**44**	**MXT40**	**4**	**1**	**506**
20	**CMD20044X45**	**44**	**MXT45**	**4-1/2**	**1**	**506**
20	CMD20044X50	44	MXT50	5	1	505
20	CMD20044X60	44	MXT60	6	1-1/8	508
20	CMD20046X30	46	MXT30	3	7/8	529
20	CMD20046X35	46	MXT35	3-1/2	7/8	518

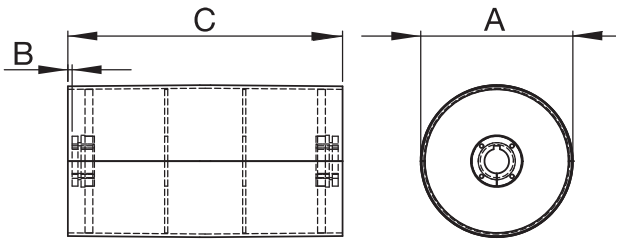
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CMD20046X40	46	MXT40	4	1	519
20	CMD20046X45	46	MXT45	4-1/2	1	519
20	CMD20046X50	46	MXT50	5	1	518
20	CMD20046X60	46	MXT60	6	1-1/8	521
20	CMD20051X30	51	MXT30	3	7/8	561
20	**CMD20051X35**	**51**	**MXT35**	**3-1/2**	**7/8**	**551**
20	**CMD20051X40**	**51**	**MXT40**	**4**	**1**	**552**
20	CMD20051X45	51	MXT45	4-1/2	1	552
20	CMD20051X50	51	MXT50	5	1	551
20	CMD20051X60	51	MXT60	6	1-1/8	554
20	CMD20051X70	51	MXT70	7	1-1/4	572
20	CMD20054X30	54	MXT30	3	7/8	581
20	CMD20054X35	54	MXT35	3-1/2	7/8	571
20	CMD20054X40	54	MXT40	4	1	571
20	CMD20054X45	54	MXT45	4-1/2	1	571
20	CMD20054X50	54	MXT50	5	1	571
20	CMD20054X70	54	MXT70	7	1-1/4	592
20	CMD20057X30	57	MXT30	3	7/8	601
20	CMD20057X35	57	MXT35	3-1/2	7/8	590
20	CMD20057X40	57	MXT40	4	1	591
20	CMD20057X45	57	MXT45	4-1/2	1	591
20	CMD20057X50	57	MXT50	5	1	591
20	CMD20057X60	57	MXT60	6	1-1/8	593
20	CMD20060X30	60	MXT30	3	7/8	646
20	CMD20060X35	60	MXT35	3-1/2	7/8	636
20	CMD20060X40	60	MXT40	4	1	635
20	CMD20060X45	60	MXT45	4-1/2	1	635
20	CMD20063X30	63	MXT30	3	7/8	666
20	CMD20063X35	63	MXT35	3-1/2	7/8	656
20	CMD20063X40	63	MXT40	4	1	655
20	CMD20063X45	63	MXT45	4-1/2	1	655
20	CMD20063X50	63	MXT50	5	1	652
20	CMD20063X60	63	MXT60	6	1-1/8	652
20	CMD20063X70	63	MXT70	7	1-1/4	669
20	CMD20066X30	66	MXT30	3	7/8	738
20	CMD20066X35	66	MXT35	3-1/2	7/8	728
20	CMD20066X40	66	MXT40	4	1	723
20	CMD20066X45	66	MXT45	4-1/2	1	723
24	CMD24012X30	12	MXT30	3	7/8	423
24	CMD24012X35	12	MXT35	3-1/2	7/8	413
24	CMD24012X40	12	MXT40	4	1	415
24	CMD24014X30	14	MXT30	3	7/8	445
24	CMD24014X35	14	MXT35	3-1/2	7/8	435
24	CMD24014X40	14	MXT40	4	1	436
24	CMD24014X45	14	MXT45	4-1/2	1	436
24	CMD24016X30	16	MXT30	3	7/8	466
24	CMD24016X35	16	MXT35	3-1/2	7/8	456
24	CMD24016X40	16	MXT40	4	1	457
24	CMD24016X45	16	MXT45	4-1/2	1	458
24	CMD24016X50	16	MXT50	5	1	459
24	CMD24018X30	18	MXT30	3	7/8	487
24	CMD24018X35	18	MXT35	3-1/2	7/8	477
24	CMD24018X40	18	MXT40	4	1	478
24	CMD24018X45	18	MXT45	4-1/2	1	479

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMD24018X50	18	MXT50	5	1	480
24	CMD24020X30	20	MXT30	3	7/8	508
24	CMD24020X35	20	MXT35	3-1/2	7/8	498
24	CMD24020X40	20	MXT40	4	1	500
24	CMD24020X45	20	MXT45	4-1/2	1	500
24	CMD24020X50	20	MXT50	5	1	501
24	CMD24022X30	22	MXT30	3	7/8	529
24	CMD24022X35	22	MXT35	3-1/2	7/8	519
24	CMD24022X40	22	MXT40	4	1	521
24	CMD24022X45	22	MXT45	4-1/2	1	521
24	CMD24022X50	22	MXT50	5	1	522
24	CMD24024X30	24	MXT30	3	7/8	550
24	CMD24024X35	24	MXT35	3-1/2	7/8	540
24	CMD24024X40	24	MXT40	4	1	542
24	CMD24024X45	24	MXT45	4-1/2	1	542
24	CMD24024X50	24	MXT50	5	1	543
24	**CMD24026X30**	**26**	**MXT30**	**3**	**7/8**	**571**
24	CMD24026X35	26	MXT35	3-1/2	7/8	561
24	CMD24026X40	26	MXT40	4	1	563
24	CMD24026X45	26	MXT45	4-1/2	1	563
24	CMD24026X50	26	MXT50	5	1	564
24	CMD24026X60	26	MXT60	6	1-1/8	569
24	CMD24030X30	30	MXT30	3	7/8	653
24	CMD24030X35	30	MXT35	3-1/2	7/8	643
24	CMD24030X40	30	MXT40	4	1	643
24	CMD24030X45	30	MXT45	4-1/2	1	643
24	CMD24030X50	30	MXT50	5	1	642
24	CMD24032X30	32	MXT30	3	7/8	674
24	CMD24032X35	32	MXT35	3-1/2	7/8	664
24	**CMD24032X40**	**32**	**MXT40**	**4**	**1**	**664**
24	**CMD24032X45**	**32**	**MXT45**	**4-1/2**	**1**	**664**
24	CMD24032X50	32	MXT50	5	1	663
24	CMD24032X60	32	MXT60	6	1-1/8	665
24	CMD24036X30	36	MXT30	3	7/8	717
24	CMD24036X35	36	MXT35	3-1/2	7/8	706
24	CMD24036X40	36	MXT40	4	1	706
24	CMD24036X45	36	MXT45	4-1/2	1	706
24	CMD24036X50	36	MXT50	5	1	705
24	CMD24036X60	36	MXT60	6	1-1/8	707
24	CMD24036X70	36	MXT70	7	1-1/4	716
24	CMD24036X80	36	MXT80	8	1-1/2	739
24	CMD24038X30	38	MXT30	3	7/8	738
24	**CMD24038X35**	**38**	**MXT35**	**3-1/2**	**7/8**	**727**
24	**CMD24038X40**	**38**	**MXT40**	**4**	**1**	**727**
24	**CMD24038X45**	**38**	**MXT45**	**4-1/2**	**1**	**728**
24	**CMD24038X50**	**38**	**MXT50**	**5**	**1**	**726**
24	CMD24038X60	38	MXT60	6	1-1/8	728
24	CMD24040X30	40	MXT30	3	7/8	798
24	CMD24040X35	40	MXT35	3-1/2	7/8	788
24	CMD24040X40	40	MXT40	4	1	786
24	CMD24040X45	40	MXT45	4-1/2	1	787
24	CMD24040X50	40	MXT50	5	1	783
24	CMD24042X30	42	MXT30	3	7/8	819
24	CMD24042X35	42	MXT35	3-1/2	7/8	809

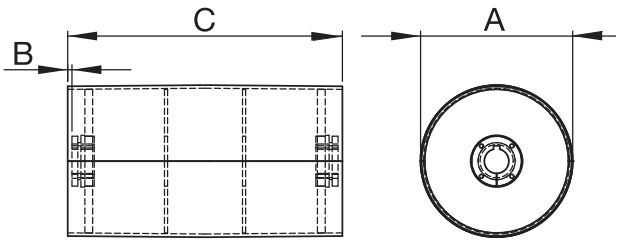
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMD24042X40	42	MXT40	4	1	807
24	CMD24042X45	42	MXT45	4-1/2	1	808
24	CMD24042X50	42	MXT50	5	1	804
24	CMD24044X30	44	MXT30	3	7/8	840
24	CMD24044X35	44	MXT35	3-1/2	7/8	830
24	**CMD24044X40**	**44**	**MXT40**	**4**	**1**	**828**
24	**CMD24044X45**	**44**	**MXT45**	**4-1/2**	**1**	**829**
24	CMD24044X50	44	MXT50	5	1	825
24	CMD24044X60	44	MXT60	6	1-1/8	824
24	CMD24044X70	44	MXT70	7	1-1/4	829
24	CMD24046X30	46	MXT30	3	7/8	861
24	CMD24046X35	46	MXT35	3-1/2	7/8	851
24	CMD24046X40	46	MXT40	4	1	849
24	CMD24046X45	46	MXT45	4-1/2	1	850
24	CMD24046X50	46	MXT50	5	1	846
24	CMD24046X60	46	MXT60	6	1-1/8	845
24	CMD24051X30	51	MXT30	3	7/8	914
24	CMD24051X35	51	MXT35	3-1/2	7/8	904
24	CMD24051X40	51	MXT40	4	1	902
24	**CMD24051X45**	**51**	**MXT45**	**4-1/2**	**1**	**902**
24	**CMD24051X50**	**51**	**MXT50**	**5**	**1**	**899**
24	CMD24051X60	51	MXT60	6	1-1/8	897
24	CMD24051X70	51	MXT70	7	1-1/4	9903
24	CMD24054X30	54	MXT30	3	7/8	945
24	CMD24054X35	54	MXT35	3-1/2	7/8	935
24	CMD24054X40	54	MXT40	4	1	933
24	CMD24054X45	54	MXT45	4-1/2	1	934
24	CMD24054X50	54	MXT50	5	1	930
24	CMD24054X60	54	MXT60	6	1-1/8	929
24	CMD24054X70	54	MXT70	7	1-1/4	934
24	CMD24057X30	57	MXT30	3	7/8	977
24	CMD24057X35	57	MXT35	3-4/9	7/8	967
24	CMD24057X40	57	MXT40	4	1	965
24	CMD24057X45	57	MXT45	4-4/9	1	965
24	CMD24057X50	57	MXT50	5	1	962
24	CMD24057X60	57	MXT60	6	1-1/8	960
24	CMD24057X70	57	MXT70	7	1-1/4	966
24	CMD24057X80	57	MXT80	8	1-1/2	985
24	CMD24060X30	60	MXT30	3	7/8	1048
24	CMD24060X35	60	MXT35	3-1/2	7/8	1037
24	CMD24060X40	60	MXT40	4	1	1034
24	CMD24060X45	60	MXT45	4-1/2	1	1034
24	CMD24060X50	60	MXT50	5	1	1029
24	CMD24063X30	63	MXT30	3	7/8	1079
24	CMD24063X35	63	MXT35	3-1/2	7/8	1069
24	CMD24063X40	63	MXT40	4	1	1066
24	CMD24063X45	63	MXT45	4-1/2	1	1066
24	CMD24063X50	63	MXT50	5	1	1060
24	CMD24063X60	63	MXT60	6	1-1/8	1056
24	CMD24063X70	63	MXT70	7	1-1/4	1057
24	CMD24063X80	63	MXT80	8	1-1/2	1072
24	CMD24066X30	66	MXT30	3	7/8	1188
24	CMD24066X35	66	MXT35	3-1/2	7/8	1179
24	CMD24066X40	66	MXT40	4	1	1172
24	CMD24066X45	66	MXT45	4-1/2	1	1172

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMD24066X50	66	MXT50	5	1	1162
30	CMD30012X35	12	MXT35	3-1/2	7/8	618
30	CMD30012X40	12	MXT40	4	1	620
30	CMD30014X35	14	MXT35	3-1/2	7/8	645
30	CMD30014X40	14	MXT40	4	1	647
30	CMD30016X35	16	MXT35	3-1/2	7/8	671
30	CMD30016X40	16	MXT40	4	1	673
30	CMD30016X45	16	MXT45	4-1/2	1	673
30	CMD30016X50	16	MXT50	5	1	674
30	CMD30018X35	18	MXT35	3-1/2	7/8	697
30	CMD30018X40	18	MXT40	4	1	700
30	CMD30018X45	18	MXT45	4-1/2	1	700
30	CMD30018X50	18	MXT50	5	1	701
30	CMD30020X35	20	MXT35	3-1/2	7/8	724
30	CMD30020X40	20	MXT40	4	1	726
30	CMD30020X45	20	MXT45	4-1/2	1	726
30	CMD30020X50	20	MXT50	5	1	727
30	CMD30022X35	22	MXT35	3-1/2	7/8	751
30	CMD30022X40	22	MXT40	4	1	752
30	CMD30022X45	22	MXT45	4-1/2	1	752
30	CMD30022X50	22	MXT50	5	1	754
30	CMD30024X35	24	MXT35	3-1/2	7/8	777
30	CMD30024X40	24	MXT40	4	1	779
30	CMD30024X45	24	MXT45	4-1/2	1	779
30	CMD30024X50	24	MXT50	5	1	780
30	CMD30026X35	26	MXT35	3-1/2	7/8	803
30	CMD30026X40	26	MXT40	4	1	805
30	CMD30026X45	26	MXT45	4-1/2	1	805
30	CMD30026X50	26	MXT50	5	1	806
30	CMD30030X35	30	MXT35	3-1/2	7/8	922
30	CMD30030X40	30	MXT40	4	1	922
30	CMD30030X45	30	MXT45	4-1/2	1	922
30	CMD30030X50	30	MXT50	5	1	921
30	CMD30032X30	32	MXT30	3	7/8	958
30	CMD30032X35	32	MXT35	3-1/2	7/8	948
30	CMD30032X40	32	MXT40	4	1	948
30	CMD30032X45	32	MXT45	4-1/2	1	948
30	CMD30032X50	32	MXT50	5	1	947
30	CMD30036X35	36	MXT35	3-1/2	7/8	1001
30	CMD30036X40	36	MXT40	4	1	1001
30	CMD30036X45	36	MXT45	4-1/2	1	1001
30	CMD30036X50	36	MXT50	5	1	1000
30	CMD30036X70	36	MXT70	7	1-1/4	1011
30	CMD30038X35	38	MXT35	3-1/2	7/8	1027
30	CMD30038X40	38	MXT40	4	1	1027
30	CMD30038X45	38	MXT45			
4-1/2	1	1027				
30	CMD30038X50	38	MXT50	5	1	1026
30	CMD30038X60	38	MXT60	6	1-1/8	1028
30	CMD30038X70	38	MXT70	7	1-1/4	1037
30	CMD30040X35	40	MXT35	3-1/2	7/8	1119
30	CMD30040X40	40	MXT40	4	1	1117
30	CMD30040X45	40	MXT45	4-1/2	1	1117
30	CMD30040X50	40	MXT50	5	1	1114
30	CMD30042X30	42	MXT30	3	7/8	1155

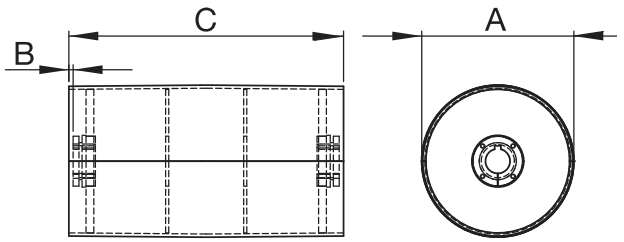
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
30	CMD30042X35	42	MXT35	3-1/2	7/8	1145
30	CMD30042X40	42	MXT40	4	1	113
30	CMD30042X45	42	MXT45	4-1/2	1	1144
30	CMD30044X35	44	MXT35	3-1/2	7/8	1171
30	CMD30044X40	44	MXT40	4	1	1170
30	CMD30044X45	44	MXT45	4-1/2	1	1170
30	CMD30044X50	44	MXT50	5	1	1167
30	CMD30044X60	44	MXT60	6	1-1/8	1165
30	CMD30044X70	44	MXT70	7	1-1/4	1171
30	CMD30046X35	46	MXT35	3-1/2	7/8	1198
30	CMD30046X40	46	MXT40	4	1	1196
30	CMD30046X45	46	MXT45	4-1/2	1	1196
30	CMD30046X50	46	MXT50	5	1	1193
30	CMD30046X60	46	MXT60	6	1-1/8	1191
30	CMD30046X80	46	MXT80	8	1-1/2	1216
30	CMD30051X35	51	MXT35	3-1/2	7/8	1263
30	CMD30051X40	51	MXT40	4	1	1262
30	CMD30051X45	51	MXT45	4-1/2	1	1262
30	CMD30051X50	51	MXT50	5	1	1259
30	CMD30051X60	51	MXT60	6	1-1/8	1257
30	CMD30051X70	51	MXT70	7	1-1/4	1263
30	CMD30051X80	51	MXT80	8	1-1/2	1281
30	CMD30054X35	54	MXT35	3-1/2	7/8	1303
30	CMD30054X40	54	MXT40	4	1	1301
30	CMD30054X45	54	MXT45	4-1/2	1	1301
30	CMD30054X50	54	MXT50	5	1	1298
30	CMD30054X60	54	MXT60	6	1-1/8	1296
30	CMD30057X35	57	MXT35	3-1/2	7/8	1342
30	CMD30057X40	57	MXT40	4	1	1340
30	CMD30057X45	57	MXT45	4-1/2	1	1341
30	CMD30057X50	57	MXT50	5	1	1337
30	CMD30057X60	57	MXT60	6	1-1/8	1336
30	CMD30057X70	57	MXT70	7	1-1/4	1341
30	CMD30060X35	60	MXT35	3-1/2	7/8	1446
30	CMD30060X40	60	MXT40	4	1	1443
30	CMD30060X45	60	MXT45	4-1/2	1	1443
30	CMD30060X50	60	MXT50	5	1	1438
30	CMD30063X35	63	MXT35	3-1/2	7/8	1486
30	CMD30063X40	63	MXT40	4	1	1482
30	CMD30063X45	63	MXT45	4-1/2	1	1483
30	CMD30063X50	63	MXT50	5	1	1477
30	CMD30063X60	63	MXT60	6	1-1/8	1473
30	CMD30063X70	63	MXT70	7	1-1/4	1474
30	CMD30063X80	63	MXT80	8	1-1/2	1489
30	CMD30066X35	66	MXT35	3-1/2	7/8	1655
30	CMD30066X40	66	MXT40	4	1	1648
30	CMD30066X45	66	MXT45	4-1/2	1	1648
30	CMD30066X50	66	MXT50	5	1	1638
36	CMD36012X40	12	MXT40	4	1	865
36	CMD36014X40	14	MXT40	4	1	898
36	CMD36014X45	14	MXT45	4-1/2	1	898
36	CMD36016X40	16	MXT40	4	1	929
36	CMD36016X45	16	MXT45	4-1/2	1	929
36	CMD36016X50	16	MXT50	5	1	930
36	CMD36018X40	18	MXT40	4	1	961

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
36	CMD36018X45	18	MXT45	4-1/2	1	961
36	CMD36018X50	18	MXT50	5	1	962
36	CMD36018X60	18	MXT60	6	1-1/8	967
36	CMD36020X40	20	MXT40	4	1	992
36	CMD36020X45	20	MXT45	4-1/2	1	993
36	CMD36020X50	20	MXT50	5	1	994
36	CMD36020X60	20	MXT60	6	1-1/8	998
36	CMD36022X40	22	MXT40	4	1	1024
36	CMD36022X45	22	MXT45	4-1/2	1	1024
36	CMD36022X50	22	MXT50	5	1	1025
36	CMD36022X60	22	MXT60	6	1-1/8	1030
36	CMD36024X40	24	MXT40	4	1	1056
36	CMD36024X45	24	MXT45	4-1/2	1	1056
36	CMD36024X50	24	MXT50	5	1	1057
36	CMD36024X60	24	MXT60	6	1-1/8	1062
36	CMD36026X40	26	MXT40	4	1	1087
36	CMD36026X45	26	MXT45	4-1/2	1	1088
36	CMD36026X50	26	MXT50	5	1	1089
36	CMD36026X60	26	MXT60	6	1-1/8	1093
36	CMD36030X40	30	MXT40	4	1	1247
36	CMD36030X45	30	MXT45	4-1/2	1	1247
36	CMD36030X50	30	MXT50	5	1	1246
36	CMD36030X60	30	MXT60	6	1-1/8	1247
36	CMD36032X40	32	MXT40	4	1	1278
36	CMD36032X45	32	MXT45	4-1/2	1	1278
36	CMD36032X50	32	MXT50	5	1	1277
36	CMD36032X60	32	MXT60	6	1-1/8	1279
36	CMD36036X40	36	MXT40	4	1	1341
36	CMD36036X45	36	MXT45	4-1/2	1	1341
36	CMD36036X50	36	MXT50	5	1	1340
36	CMD36036X60	36	MXT60	6	1-1/8	1342
36	CMD36038X40	38	MXT40	4	1	1373
36	CMD36038X45	38	MXT45	4-1/2	1	1373
36	CMD36038X50	38	MXT50	5	1	1372
36	CMD36038X60	38	MXT60	6	1-1/8	1374
36	CMD36038X70	38	MXT70	7	1-1/4	1383
36	CMD36040X40	40	MXT40	4	1	1500
36	CMD36040X45	40	MXT45	4-1/2	1	1500
36	CMD36040X50	40	MXT50	5	1	1497
36	CMD36040X60	40	MXT60	6	1-1/8	1495
36	CMD36042X40	42	MXT40	4	1	1532
36	CMD36042X45	42	MXT45	4-1/2	1	1532
36	CMD36042X50	42	MXT50	5	1	1529
36	CMD36042X60	42	MXT60	6	1-1/8	1527
36	CMD36044X40	44	MXT40	4	1	1563
36	CMD36044X45	44	MXT45	4-1/2	1	1563
36	CMD36044X50	44	MXT50	5	1	1560
36	CMD36044X60	44	MXT60	6	1-1/8	1559
36	CMD36044X70	44	MXT70	7	1-1/4	1564
36	CMD36044X80	44	MXT80	8	1-1/2	1583
36	CMD36046X40	46	MXT40	4	1	1595
36	CMD36046X45	46	MXT45	4-1/2	1	1595
36	CMD36046X50	46	MXT50	5	1	1592
36	CMD36046X60	46	MXT60	6	1-1/8	1590

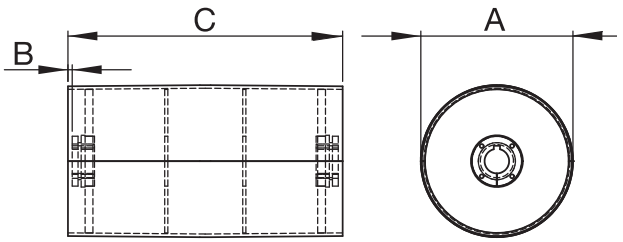
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
36	CMD36046X80	46	MXT80	8	1-1/2	1615
36	CMD36051X40	51	MXT40	4	1	1673
36	CMD36051X45	51	MXT45	4-1/2	1	1674
36	CMD36051X50	51	MXT50	5	1	1670
36	CMD36051X60	51	MXT60	6	1-1/8	1669
36	CMD36051X70	51	MXT70	7	1-1/4	1674
36	CMD36051X80	51	MXT80	8	1-1/2	1693
36	CMD36054X40	54	MXT40	4	1	1721
36	CMD36054X45	54	MXT45	4-1/2	1	1721
36	CMD36054X50	54	MXT50	5	1	1718
36	CMD36054X60	54	MXT60	6	1-1/8	1716
36	CMD36057X40	57	MXT40	4	1	1768
36	CMD36057X45	57	MXT45	4-1/2	1	1768
36	CMD36057X50	57	MXT50	5	1	1765
36	CMD36057X60	57	MXT60	6	1-1/8	1763
36	CMD36060X40	60	MXT40	4	1	1910
36	CMD36060X45	60	MXT45	4-1/2	1	1911
36	CMD36060X50	60	MXT50	5	1	1905
36	CMD36060X60	60	MXT60	6	1-1/8	1900
36	CMD36063X40	63	MXT40	4	1	1957
36	CMD36063X45	63	MXT45	4-1/2	1	1958
36	CMD36063X50	63	MXT50	5	1	1952
36	CMD36063X60	63	MXT60	6	1-1/8	1948
36	CMD36063X70	63	MXT70	7	1-1/4	1949
36	CMD36063X80	63	MXT80	8	1-1/2	1964
36	CMD36066X40	66	MXT40	4	1	2194
36	CMD36066X45	66	MXT45	4-1/2	1	2195
36	CMD36066X50	66	MXT50	5	1	2185
36	CMD36066X60	66	MXT60	6	1-1/8	2174
42	CMD42018X40	18	MXT40	4	1	1262
42	CMD42018X45	18	MXT45	4-1/2	1	1262
42	CMD42018X50	18	MXT50	5	1	1263
42	CMD42018X60	18	MXT60	6	1-1/8	1268
42	CMD42020X40	20	MXT40	4	1	1299
42	CMD42020X45	20	MXT45	4-1/2	1	1299
42	CMD42020X50	20	MXT50	5	1	1300
42	CMD42020X60	20	MXT60	6	1-1/8	1305
42	CMD42022X40	22	MXT40	4	1	1336
42	CMD42022X45	22	MXT45	4-1/2	1	1336
42	CMD42022X50	22	MXT50	5	1	1337
42	CMD42022X60	22	MXT60	6	1-1/8	1342
42	CMD42024X40	24	MXT40	4	1	1373
42	CMD42024X45	24	MXT45	4-1/2	1	1373
42	CMD42024X50	24	MXT50	5	1	1374
42	CMD42024X60	24	MXT60	6	1-1/8	1379
42	CMD42026X40	26	MXT40	4	1	1410
42	CMD42026X45	26	MXT45	4-1/2	1	1410
42	CMD42026X50	26	MXT50	5	1	1411
42	CMD42026X60	26	MXT60	6	1-1/8	1416
42	CMD42030X40	30	MXT40	4	1	1617
42	CMD42030X45	30	MXT45	4-1/2	1	1618
42	CMD42030X50	30	MXT50	5	1	1616
42	CMD42030X60	30	MXT60	6	1-1/8	1618

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
42	CMD42032X40	32	MXT40	4	1	1654
42	CMD42032X45	32	MXT45	4-1/2	1	1654
42	CMD42032X50	32	MXT50	5	1	1653
42	CMD42032X60	32	MXT60	6	1-1/8	1655
42	CMD42036X40	36	MXT40	4	1	1728
42	CMD42036X45	36	MXT45	4-1/2	1	1728
42	CMD42036X50	36	MXT50	5	1	1727
42	CMD42036X60	36	MXT60	6	1-1/8	1729
42	CMD42038X40	38	MXT40	4	1	1765
42	CMD42038X45	38	MXT45	4-1/2	1	1765
42	CMD42038X50	38	MXT50	5	1	1764
42	CMD42038X60	38	MXT60	6	1-1/8	1765
42	CMD42040X40	40	MXT40	4	1	1935
42	CMD42040X45	40	MXT45	4-1/2	1	1935
42	CMD42040X50	40	MXT50	5	1	1932
42	CMD42040X60	40	MXT60	6	1-1/8	1931
42	CMD42042X40	42	MXT40	4	1	1972
42	CMD42042X45	42	MXT45	4-1/2	1	1972
42	CMD42042X50	42	MXT50	5	1	1969
42	CMD42042X60	42	MXT60	6	1-1/8	1967
42	CMD42044X40	44	MXT40	4	1	2009
42	CMD42044X45	44	MXT45	4-1/2	1	2009
42	CMD42044X50	44	MXT50	5	1	2006
42	CMD42044X60	44	MXT60	6	1-1/8	2004
42	CMD42046X40	46	MXT40	4	1	2045
42	CMD42046X45	46	MXT45	4-1/2	1	2046
42	CMD42046X50	46	MXT50	5	1	2042
42	CMD42046X60	46	MXT60	6	1-1/8	2041
42	CMD42051X40	51	MXT40	4	1	2137
42	CMD42051X45	51	MXT45	4-1/2	1	2138
42	CMD42051X50	51	MXT50	5	1	2134
42	CMD42051X60	51	MXT60	6	1-1/8	2133
42	CMD42054X40	54	MXT40	4	1	2192
42	CMD42054X45	54	MXT45	4-1/2	1	2193
42	CMD42054X50	54	MXT50	5	1	2189
42	CMD42054X60	54	MXT60	6	1-1/8	2188
42	CMD42057X40	57	MXT40	4	1	2248
42	CMD42057X45	57	MXT45	4-1/2	1	2248
42	CMD42057X50	57	MXT50	5	1	2245
42	CMD42057X60	57	MXT60	6	1-1/8	2243
42	CMD42060X40	60	MXT40	4	1	2435
42	CMD42060X45	60	MXT45	4-1/2	1	2436
42	CMD42060X50	60	MXT50	5	1	2430
42	CMD42060X60	60	MXT60	6	1-1/8	2426
42	CMD42063X40	63	MXT40	4	1	2491
42	CMD42063X45	63	MXT45	4-1/2	1	2491
42	CMD42063X50	63	MXT50	5	1	2485
42	CMD42063X60	63	MXT60	6	1-1/8	2481
42	CMD42066X40	66	MXT40	4	1	2811
42	CMD42066X45	66	MXT45	4-1/2	1	2811
42	CMD42066X50	66	MXT50	5	1	2801
42	CMD42066X60	66	MXT60	6	1-1/8	2791
48	CMD48018X40	18	MXT40	4	1	1603
48	CMD48018X45	18	MXT45	4-1/2	1	1604

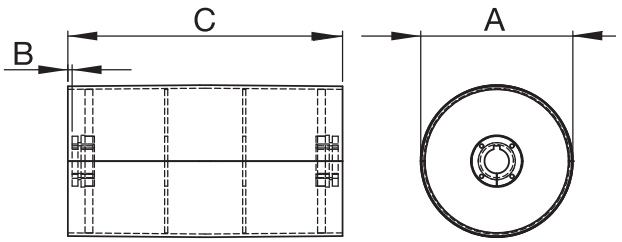
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
48	CMD48018X50	18	MXT50	5	1	1605
48	CMD48018X60	18	MXT60	6	1-1/8	1609
48	CMD48020X40	20	MXT40	4	1	1646
48	CMD48020X45	20	MXT45	4-1/2	1	1646
48	CMD48020X50	20	MXT50	5	1	1647
48	CMD48020X60	20	MXT60	6	1-1/8	1652
48	CMD48022X40	22	MXT40	4	1	1688
48	CMD48022X45	22	MXT45	4-1/2	1	1688
48	CMD48022X50	22	MXT50	5	1	1689
48	CMD48022X60	22	MXT60	6	1-1/8	1694
48	CMD48024X40	24	MXT40	4	1	1730
48	CMD48024X45	24	MXT45	4-1/2	1	1730
48	CMD48024X50	24	MXT50	5	1	1731
48	CMD48024X60	24	MXT60	6	1-1/8	1736
48	CMD48026X40	26	MXT40	4	1	1772
48	CMD48026X45	26	MXT45	4-1/2	1	1772
48	CMD48026X50	26	MXT50	5	1	1773
48	CMD48026X60	26	MXT60	6	1-1/8	1778
48	CMD48030X40	30	MXT40	4	1	2034
48	CMD48030X45	30	MXT45	4-1/2	1	2034
48	CMD48030X50	30	MXT50	5	1	2033
48	CMD48030X60	30	MXT60	6	1-1/8	2035
48	CMD48032X40	32	MXT40	4	1	2076
48	CMD48032X45	32	MXT45	4-1/2	1	2077
48	CMD48032X50	32	MXT50	5	1	2075
48	CMD48032X60	32	MXT60	6	1-1/8	2077
48	CMD48036X45	36	MXT45	4-1/2	1	2161
48	CMD48036X50	36	MXT50	5	1	2160
48	CMD48036X60	36	MXT60	6	1-1/8	2161
48	CMD48038X45	38	MXT45	4-1/2	1	2203
48	CMD48038X50	38	MXT50	5	1	2202
48	CMD48038X60	38	MXT60	6	1-1/8	2203
48	CMD48040X45	40	MXT45	4-1/2	1	2422
48	CMD48040X50	40	MXT50	5	1	2419
48	CMD48040X60	40	MXT60	6	1-1/8	2418
48	CMD48042X45	42	MXT45	4-1/2	1	2464
48	CMD48042X50	42	MXT50	5	1	2461
48	CMD48042X60	42	MXT60	6	1-1/8	2460
48	CMD48044X45	44	MXT45	4-1/2	1	2506
48	CMD48044X50	44	MXT50	5	1	2503
48	CMD48044X60	44	MXT60	6	1-1/8	2502
48	CMD48046X45	46	MXT45	4-1/2	1	2548
48	CMD48046X50	46	MXT50	5	1	2545
48	CMD48046X60	46	MXT60	6	1-1/8	2544
48	CMD48051X45	51	MXT45	4-1/2	1	2653
48	CMD48051X50	51	MXT50	5	1	2650
48	CMD48051X60	51	MXT60	6	1-1/8	2649
48	CMD48054X45	54	MXT45	4-1/2	1	2716
48	CMD48054X50	54	MXT50	5	1	2713
48	CMD48054X60	54	MXT60	6	1-1/8	2712
48	CMD48057X45	57	MXT45	4-1/2	1	2779
48	CMD48057X50	57	MXT50	5	1	2776
48	CMD48057X60	57	MXT60	6	1-1/8	2775
48	CMD48060X45	60	MXT45	4-1/2	1	3019

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty



Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
48	CMD48060X50	60	MXT50	5	1	3014
48	CMD48060X60	60	MXT60	6	1-1/8	3009
48	CMD48063X45	63	MXT45	4-1/2	1	3082
48	CMD48063X50	63	MXT50	5	1	3077
48	CMD48063X60	63	MXT60	6	1-1/8	3072
48	CMD48066X45	66	MXT45	4-1/2	1	3498
48	CMD48066X50	66	MXT50	5	1	3488
48	CMD48066X60	66	MXT60	6	1-1/8	3477
54	CMD54018X45	18	MXT45	4-1/2	1	1985
54	CMD54018X50	18	MXT50	5	1	1986
54	CMD54018X60	18	MXT60	6	1-1/8	1991
54	CMD54020X45	20	MXT45	4-1/2	1	2032
54	CMD54020X50	20	MXT50	5	1	2032
54	CMD54020X60	20	MXT60	6	1-1/8	2038
54	CMD54022X45	22	MXT45	4-1/2	1	2080
54	CMD54022X50	22	MXT50	5	1	2081
54	CMD54022X60	22	MXT60	6	1-1/8	2086
54	CMD54024X45	24	MXT45	4-1/2	1	2127
54	CMD54024X50	24	MXT50	5	1	2129
54	CMD54024X60	24	MXT60	6	1-1/8	2133
54	CMD54026X45	26	MXT45	4-1/2	1	2175
54	CMD54026X50	26	MXT50	5	1	2176
54	CMD54026X60	26	MXT60	6	1-1/8	2181
54	CMD54030X45	30	MXT45	4-1/2	1	2497
54	CMD54030X50	30	MXT50	5	1	2496
54	CMD54030X60	30	MXT60	6	1-1/8	2498
54	CMD54032X45	32	MXT45	4-1/2	1	2545
54	CMD54032X50	32	MXT50	5	1	2544
54	CMD54032X60	32	MXT60	6	1-1/8	2545
54	CMD54036X45	36	MXT45	4-1/2	1	2639
54	CMD54036X50	36	MXT50	5	1	2638
54	CMD54036X60	36	MXT60	6	1-1/8	2640
54	CMD54038X45	38	MXT45	4-1/2	1	2687
54	CMD54038X50	38	MXT50	5	1	2686
54	CMD54038X60	38	MXT60	6	1-1/8	2687
54	CMD54040X45	40	MXT45	4-1/2	1	2961
54	CMD54040X50	40	MXT50	5	1	2958
54	CMD54040X60	40	MXT60	6	1-1/8	2957
54	CMD54042X45	42	MXT45	4-1/2	1	3009
54	CMD54042X50	42	MXT50	5	1	3005
54	CMD54042X60	42	MXT60	6	1-1/8	3004
54	CMD54044X45	44	MXT45	4-1/2	1	3056
54	CMD54044X50	44	MXT50	5	1	3053
54	CMD54044X60	44	MXT60	6	1-1/8	3051
54	CMD54046X45	46	MXT45	4-1/2	1	3130
54	CMD54046X50	46	MXT50	5	1	3100
54	CMD54046X60	46	MXT60	6	1-1/8	3099
54	CMD54051X45	51	MXT45	4-1/2	1	3221
54	CMD54051X50	51	MXT50	5	1	3218
54	CMD54051X60	51	MXT60	6	1-1/8	3217
54	CMD54054X45	54	MXT45	4-1/2	1	3292
54	CMD54054X50	54	MXT50	5	1	3289
54	CMD54054X60	54	MXT60	6	1-1/8	3288
54	CMD54057X45	57	MXT45	4-1/2	1	3363

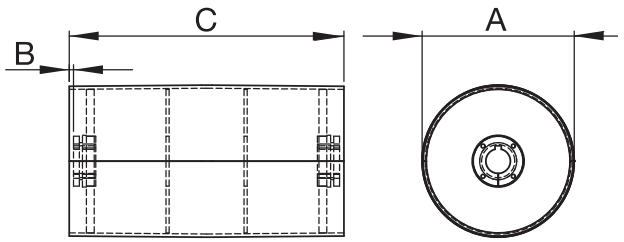
Mine Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
54	CMD54057X50	57	MXT50	5	1	3360
54	CMD54057X60	57	MXT60	6	1-1/8	3359
54	CMD54060X45	60	MXT45	4-1/2	1	3660
54	CMD54060X50	60	MXT50	5	1	3655
54	CMD54060X60	60	MXT60	6	1-1/8	3651
54	CMD54063X45	63	MXT45	4-1/2	1	3731
54	CMD54063X50	63	MXT50	5	1	3726
54	CMD54063X60	63	MXT60	6	1-1/8	3721
54	CMD54066X45	66	MXT45	4-1/2	1	4254
54	CMD54066X50	66	MXT50	5	1	4244
54	CMD54066X60	66	MXT60	6	1-1/8	4234
60	CMD60018X45	18	MXT45	4-1/2	1	2406
60	CMD60018X50	18	MXT50	5	1	2408
60	CMD60018X60	18	MXT60	6	1-1/8	2412
60	CMD60020X45	20	MXT45	4-1/2	1	2459
60	CMD60020X60	20	MXT60	6	1-1/8	2465
60	CMD60022X45	22	MXT45	4-1/2	1	2512
60	CMD60022X50	22	MXT50	5	1	2513
60	CMD60022X60	22	MXT60	6	1-1/8	2518
60	CMD60024X45	24	MXT45	4-1/2	1	2565
60	CMD60024X50	24	MXT50	5	1	2566
60	CMD60024X60	24	MXT60	6	1-1/8	2570
60	CMD60026X45	26	MXT45	4-1/2	1	2617
60	CMD60026X50	26	MXT50	5	1	2618
60	CMD60026X60	26	MXT60	6	1-1/8	2623
60	CMD60030X45	30	MXT45	4-1/2	1	3005
60	CMD60030X50	30	MXT50	5	1	3005
60	CMD60030X60	30	MXT60	6	1-1/8	3007
60	CMD60032X45	32	MXT45	4-1/2	1	3060
60	CMD60032X50	32	MXT50	5	1	3058
60	CMD60032X60	32	MXT60	6	1-1/8	3060
60	CMD60036X50	36	MXT50	5	1	3163
60	CMD60036X60	36	MXT60	6	1-1/8	3165
60	CMD60038X50	38	MXT50	5	1	3216
60	CMD60038X60	38	MXT60	6	1-1/8	3217
60	CMD60040X50	40	MXT50	5	1	3549
60	CMD60040X60	40	MXT60	6	1-1/8	3548
60	CMD60042X50	42	MXT50	5	1	3602
60	CMD60042X60	42	MXT60	6	1-1/8	3601
60	CMD60044X50	44	MXT50	5	1	3654
60	CMD60044X60	44	MXT60	6	1-1/8	3653
60	CMD60046X50	46	MXT50	5	1	3707
60	CMD60046X60	46	MXT60	6	1-1/8	3706
60	CMD60051X50	51	MXT50	5	1	3838
60	CMD60051X60	51	MXT60	6	1-1/8	3837
60	CMD60054X50	54	MXT50	5	1	3917
60	CMD60054X60	54	MXT60	6	1-1/8	3916
60	CMD60057X50	57	MXT50	5	1	3996
60	CMD60057X60	57	MXT60	6	1-1/8	3994
60	CMD60060X50	60	MXT50	5	1	4355
60	CMD60060X60	60	MXT60	6	1-1/8	4350
60	CMD60063X50	63	MXT50	5	1	4433
60	CMD60063X60	63	MXT60	6	1-1/8	4429

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty (Lagged)



Mine Duty Drum Pulley (Lagged)

Dia. (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Lagging	Approx. Weight (lbs)
12	CMD12032X30L3H	32	MXT30	3	7/8	3/8	178
12	CMD12038X30L3H	38	MXT30	3	7/8	3/8	202
12	CMD12040X40L3H	40	MXT40	4	1	3/8	219
12	CMD12044X30L3H	44	MXT30	3	7/8	3/8	235
12	**CMD12051X35L4H**	**51**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**273**
14	CMD14032X30L3H	32	MXT30	3	7/8	3/8	246
14	CMD14038X35L4H	38	MXT35	3-1/2	7/8	1/2	265
14	CMD14038X40L3H	38	MXT40	4	1	3/8	269
16	**CMD16026X35L4H**	**26**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**241**
16	**CMD16032X35L4H**	**32**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**288**
16	CMD16032X40L3H	32	MXT40	4	1	3/8	290
16	CMD16038X25L4H	38	MXT25	2-1/2	3/4	1/2	322
16	CMD16038X30L3H	38	MXT30	3	7/8	3/8	330
16	CMD16038X30L4H	38	MXT30	3	7/8	1/2	331
16	**CMD16038X35L4H**	**38**	**MXT35**	**3**	**7/8**	**1/2**	**331**
16	CMD16040X50L3H	40	MXT50	5	1	3/8	345
16	**CMD16044X35L4H**	**44**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**368**
16	CMD16044X40L3H	44	MXT40	4	1	3/8	367
16	CMD16044X40L4H	44	MXT40	4	1	1/2	368
16	CMD16046X35L3H	46	MXT35	5	1	3/8	377
16	**CMD16051X40L4H**	**51**	**MXT40**	**4**	**1**	**1/2**	**406**
18	CMD18032X30L3H	32	MXT30	3	7/8	3/8	353
18	**CMD18032X35L4H**	**32**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**344**
18	**CMD18038X35L4H**	**38**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**380**
18	CMD18038X40L3H	38	MXT40	4	1	3/8	381
18	CMD18040X45L3H	40	MXT45	4-1/2	1	3/8	412

Mine Duty Drum Pulley (Lagged)

Dia. (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Lagging	Approx. Weight (lbs)
18	CMD18044X40L3H	44	MXT40	4	1	3/8	436
18	**CMD18044X40L4H**	**44**	**MXT40**	**4**	**1**	**1/2**	**438**
18	**CMD18044X45L4H**	**44**	**MXT45**	**4-1/2**	**1**	**1/2**	**438**
18	CMD18046X50L3H	46	MXT50	5	1	3/8	448
18	**CMD18051X45L4H**	**51**	**MXT45**	**4-1/2**	**1**	**1/2**	**480**
20	**CMD20026X35L4H**	**26**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**337**
20	**CMD20032X35L4H**	**32**	**MXT35**	**3-1/2**	**7/8**	**1/2**	**404**
20	CMD20032X40L3H	32	MXT40	4	1	3/8	405
20	CMD20032X40L4H	32	MXT40	4	1	1/2	407
20	CMD20038X40L3H	38	MXT40	4	1	3/8	445
20	**CMD20038X40L4H**	**38**	**MXT40**	**4**	**1**	**1/2**	**447**
20	**CMD20044X40L4H**	**44**	**MXT40**	**4**	**1**	**1/2**	**512**
20	CMD20044X45L3H	44	MXT45	4-1/2	1	3/8	510
20	**CMD20044X45L4H**	**44**	**MXT45**	**4**	**1**	**1/2**	**512**
20	CMD20046X50L3H	46	MXT50	5	1	3/8	524
20	**CMD20051X45L4H**	**51**	**MXT45**	**4-1/2**	**1**	**1/2**	**559**
20	CMD20057X50L4H	57	MXT50	5	1	1/2	598
24	CMD24032X40L3H	32	MXT40	4	1	3/8	668
24	**CMD24032X45L4H**	**32**	**MXT45**	**4-1/2**	**1**	**1/2**	**670**
24	CMD24038X40L3H	38	MXT40	4	1	3/8	732
24	**CMD24038X45L4H**	**38**	**MXT45**	**4-1/2**	**1**	**1/2**	**774**
24	CMD24040X50L3H	40	MXT50	5	1	3/8	791
24	CMD24044X45L3H	44	MXT45	4-1/2	1	3/8	834
24	**CMD24044X45L4H**	**44**	**MXT45**	**4-1/2**	**1**	**1/2**	**836**
24	CMD24046X60L3H	46	MXT60	4-1/2	1-1/8	3/8	855
24	**CMD24051X50L4H**	**51**	**MXT50**	**5**	**1**	**1/2**	**907**

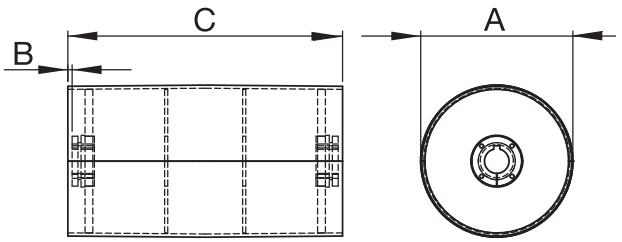
* General position for bushing face - for position per application consult Martin.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.



Custom Shafting Available!

Call Martin

Drum Pulleys — Mine Duty – M-HE Bushed



Mine Duty Drum Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
10	CMD10026H30	26	M-HE30	3	7/8	111
10	CMD10032H30	32	M-HE30	3	7/8	136
10	CMD10044H30	44	M-HE30	3	7/8	181
10	CMD10051H35	51	M-HE35	3-1/2	7/8	202
12	CMD12026H30	26	M-HE30	3	7/8	148
12	**CMD12026H35**	**26**	**M-HE35**	**3-1/2**	**7/8**	**147**
12	CMD12026H40	26	M-HE40	4	1	153
12	CMD12032H30	32	M-HE30	3	7/8	180
12	**CMD12032H35**	**32**	**M-HE35**	**3-1/2**	**7/8**	**178**
12	CMD12032H40	32	M-HE40	4	1	184
12	CMD12038H30	38	M-HE30	3	7/8	204
12	**CMD12038H35**	**38**	**M-HE35**	**3-1/2**	**7/8**	**202**
12	CMD12038H40	38	M-HE40	4	1	208
12	CMD12040H40	40	M-HE40	4	1	222
12	CMD12044H30	44	M-HE30	3	7/8	236
12	CMD12044H35	44	M-HE35	3-1/2	7/8	233
12	CMD12046H30	46	M-HE30	3	7/8	244
12	CMD12051H30	51	M-HE30	3	7/8	263
12	CMD12051H35	51	M-HE35	3-1/2	7/8	261
12	CMD12051H40	51	M-HE40	4	1	266
12	CMD12057H30	57	M-HE30	3	7/8	287
12	CMD12057H35	57	M-HE35	3-1/2	7/8	285
12	CMD12057H45	57	M-HE45	4-1/2	1	293
12	CMD12063H30	63	M-HE30	3	7/8	319
12	CMD12063H35	63	M-HE35	3-1/2	7/8	316
14	**CMD14026H30**	**26**	**M-HE30**	**3**	**7/8**	**195**
14	CMD14026H35	26	M-HE35	3-1/2	7/8	195
14	**CMD14032H30**	**32**	**M-HE30**	**3**	**7/8**	**233**
14	CMD14032H35	32	M-HE35	3-1/2	7/8	233
14	CMD14032H40	32	M-HE40	4	1	237
14	**CMD14038H30**	**38**	**M-HE30**	**3**	**7/8**	**261**
14	**CMD14038H35**	**38**	**M-HE35**	**3-1/2**	**7/8**	**260**
14	**CMD14038H40**	**38**	**M-HE40**	**4**	**1**	**265**
14	CMD14040H30	40	M-HE30	3	7/8	281
14	CMD14044H30	44	M-HE30	3	7/8	299
14	CMD14044H35	44	M-HE35	3-1/2	7/8	298
14	**CMD14044H40**	**44**	**M-HE40**	**4**	**1**	**303**
14	CMD14046H40	46	M-HE40	4	1	313
14	CMD14051H30	51	M-HE30	3	7/8	331
14	CMD14051H35	51	M-HE35	3-1/2	7/8	330
14	CMD14051H40	51	M-HE40	4	1	336
14	CMD14051H50	51	M-HE50	5	1	343
14	CMD14063H30	63	M-HE30	3	7/8	396
14	CMD14063H35	63	M-HE35	3-1/2	7/8	396
16	CMD16020H30	20	M-HE30	3	7/8	206
16	**CMD16026H30**	**26**	**M-HE30**	**3**	**7/8**	**238**
16	**CMD16026H35**	**26**	**M-HE35**	**3-1/2**	**7/8**	**237**
16	**CMD16032H30**	**32**	**M-HE30**	**3**	**7/8**	**285**
16	CMD16032H35	32	M-HE35	3-1/2	7/8	284
16	**CMD16032H40**	**32**	**M-HE40**	**4**	**1**	**286**
16	**CMD16038H30**	**38**	**M-HE30**	**3**	**7/8**	**316**
16	CMD16038H35	38	M-HE35	3-1/2	7/8	315
16	**CMD16038H40**	**38**	**M-HE40**	**4**	**1**	**618**

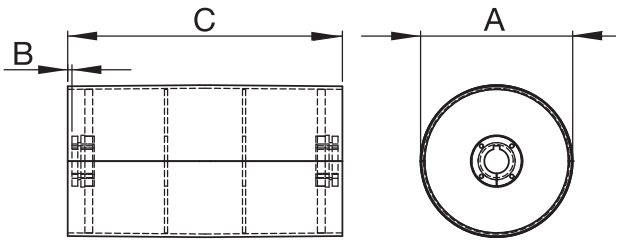
Mine Duty Drum Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	CMD16038H45	38	M-HE45	4-1/2	1	322
16	CMD16038H50	38	M-HE50	5	1	329
16	CMD16040H30	40	M-HE30	3	7/8	342
16	CMD16040H35	40	M-HE35	3-1/2	7/8	341
16	CMD16040H40	40	M-HE40	4	1	342
16	CMD16040H50	40	M-HE50	5	1	353
16	CMD16044H30	44	M-HE30	3	7/8	363
16	CMD16044H35	44	M-HE35	3-1/2	7/8	362
16	**CMD16044H40**	**44**	**M-HE40**	**4**	**1**	**363**
16	CMD16044H50	44	M-HE50	5	1	374
16	CMD16046H40	46	M-HE40	4	1	373
16	CMD16046H50	46	M-HE50	5	1	385
16	**CMD16051H30**	**51**	**M-HE30**	**3**	**7/8**	**400**
16	CMD16051H35	51	M-HE35	3-1/2	7/8	399
16	**CMD16051H40**	**51**	**M-HE40**	**4**	**1**	**400**
16	CMD16051H45	51	M-HE45	4-1/2	1	403
16	CMD16051H50	51	M-HE50	5	1	411
16	CMD16054H40	54	M-HE40	4	1	415
16	CMD16057H40	57	M-HE40	4	1	431
16	CMD16057H45	57	M-HE45	4-1/2	1	434
16	CMD16057H60	57	M-HE60	6	1-1/8	458
16	CMD16063H30	63	M-HE30	3	7/8	477
16	CMD16063H35	63	M-HE35	3-1/2	7/8	477
16	CMD16063H40	63	M-HE40	4	1	476
16	CMD16063H45	63	M-HE45	4-1/2	1	478
18	**CMD18026H35**	**26**	**M-HE35**	**3-1/2**	**7/8**	**283**
18	CMD18026H40	26	M-HE40	4	1	287
18	CMD18026H45	26	M-HE45	4-1/2	1	292
18	CMD18026H50	26	M-HE50	5	1	298
18	**CMD18032H30**	**32**	**M-HE30**	**3**	**7/8**	**340**
18	CMD18032H35	32	M-HE35	3-1/2	7/8	339
18	**CMD18032H40**	**32**	**M-HE40**	**4**	**1**	**342**
18	CMD18032H45	32	M-HE45	4-1/2	1	346
18	CMD18036H40	36	M-HE40	4	1	365
18	CMD18036H50	36	M-HE50	5	1	374
18	CMD18038H30	38	M-HE30	3	7/8	376
18	**CMD18038H35**	**38**	**M-HE35**	**3-1/2**	**7/8**	**378**
18	**CMD18038H40**	**38**	**M-HE40**	**4**	**1**	**377**
18	CMD18038H45	38	M-HE45	4-1/2	1	381
18	CMD18038H50	38	M-HE50	5	1	386
18	CMD18040H30	40	M-HE30	3	7/8	408
18	CMD18040H35	40	M-HE35	3-1/2	7/8	407
18	CMD18040H40	40	M-HE40	4	1	408
18	CMD18040H45	40	M-HE45	4-1/2	1	411
18	CMD18044H30	44	M-HE30	3	7/8	431
18	CMD18044H35	44	M-HE35	3-1/2	7/8	431
18	**CMD18044H40**	**44**	**M-HE40**	**4**	**1**	**432**
18	CMD18044H45	44	M-HE45	4-1/2	1	435
18	CMD18044H50	44	M-HE50	5	1	438
18	CMD18044H60	44	M-HE60	6	1-1/8	458
18	CMD18046H30	46	M-HE30	3	7/8	443
18	CMD18046H35	46	M-HE35	3-1/2	7/8	443
18	CMD18046H40	46	M-HE40	4	1	443

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty – M-HE Bushed



Mine Duty Drum Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CMD18046H45	46	M-HE45	4-1/2	1	446
18	CMD18046H50	46	M-HE50	5	1	450
18	CMD18051H30	51	M-HE30	3	7/8	473
18	CMD18051H35	51	M-HE35	3-1/2	7/8	472
18	**CMD18051H40**	**51**	**M-HE40**	**4**	**1**	**473**
18	CMD18051H45	51	M-HE45	4-1/2	1	476
18	CMD18051H50	51	M-HE50	5	1	479
18	CMD18051H60	51	M-HE60	6	1-1/8	500
18	CMD18057H35	57	M-HE35	3-1/2	7/8	507
18	CMD18057H40	57	M-HE40	4	1	508
18	CMD18057H45	57	M-HE45	4-1/2	1	511
18	CMD18057H50	57	M-HE50	5	1	515
18	CMD18057H60	57	M-HE60	6	1-1/8	535
18	CMD18063H35	63	M-HE35	3-1/2	7/8	563
18	CMD18063H40	63	M-HE40	4	1	562
18	CMD18063H45	63	M-HE45	4-1/2	1	564
18	CMD18063H50	63	M-HE50	5	1	566
18	CMD18066H50	66	M-HE50	5	1	617
20	CMD20024H60	24	M-HE60	6	1-1/8	354
20	CMD20024H70	24	M-HE70	7	1-1/4	356
20	CMD20024H80	24	M-HE80	8	1-1/2	387
20	CMD20026H30	26	M-HE30	3	7/8	334
20	**CMD20026H35**	**26**	**M-HE35**	**3-1/2**	**7/8**	**333**
20	CMD20026H40	26	M-HE40	4	1	337
20	**CMD20032H30**	**32**	**M-HE30**	**3**	**7/8**	**400**
20	CMD20032H35	32	M-HE35	3-1/2	7/8	399
20	**CMD20032H40**	**32**	**M-HE40**	**4**	**1**	**401**
20	CMD20032H45	32	M-HE45	4-1/2	1	405
20	**CMD20038H30**	**38**	**M-HE30**	**3**	**7/8**	**439**
20	CMD20038H35	38	M-HE35	3-1/2	7/8	438
20	**CMD20038H40**	**38**	**M-HE40**	**4**	**1**	**441**
20	CMD20038H45	38	M-HE45	4-1/2	1	445
20	CMD20038H50	38	M-HE50	5	1	450
20	CMD20038H60	38	M-HE60	6	1-1/8	466
20	CMD20040H30	40	M-HE30	3	7/8	479
20	CMD20040H35	40	M-HE35	3-1/2	7/8	478
20	CMD20040H40	40	M-HE40	4	1	479
20	CMD20040H45	40	M-HE45	4-1/2	1	482
20	CMD20040H50	40	M-HE50	5	1	485
20	CMD20040H60	40	M-HE60	6	1-1/8	498
20	CMD20044H30	44	M-HE30	3	7/8	505
20	CMD20044H35	44	M-HE35	3-1/2	7/8	504
20	**CMD20044H40**	**44**	**M-HE40**	**4**	**1**	**505**
20	**CMD20044H45**	**44**	**M-HE45**	**4-1/2**	**1**	**508**
20	CMD20044H50	44	M-HE50	5	1	512
20	CMD20044H60	44	M-HE60	6	1-1/8	525
20	CMD20046H35	46	M-HE35	3-1/2	7/8	517
20	CMD20046H40	46	M-HE40	4	1	518
20	CMD20046H45	46	M-HE45	4-1/2	1	521
20	CMD20046H50	46	M-HE50	5	1	525
20	CMD20046H60	46	M-HE60	6	1-1/8	538
20	CMD20051H30	51	M-HE30	3	7/8	551
20	**CMD20051H35**	**51**	**M-HE35**	**3-1/2**	**7/8**	**550**

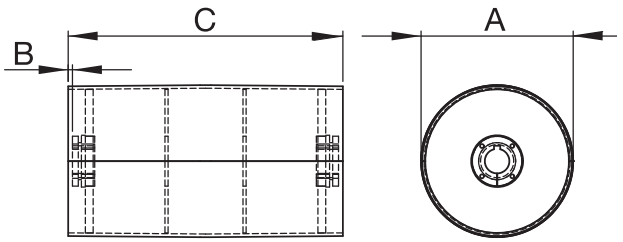
Mine Duty Drum Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	**CMD20051H40**	**51**	**M-HE40**	**4**	**1**	**551**
20	CMD20051H45	51	M-HE45	4-1/2	1	554
20	CMD20051H50	51	M-HE50	5	1	558
20	CMD20051H60	51	M-HE60	6	1-1/8	561
20	CMD20051H70	51	M-HE70	7	1-1/4	571
20	CMD20054H40	54	M-HE40	4	1	571
20	CMD20054H45	54	M-HE45	4-1/2	1	574
20	CMD20054H50	54	M-HE50	5	1	577
20	CMD20054H70	54	M-HE70	7	1-1/4	592
20	CMD20057H40	57	M-HE40	4	1	590
20	CMD20057H45	57	M-HE45	4-1/2	1	593
20	CMD20057H50	57	M-HE50	5	1	597
20	CMD20057H60	57	M-HE60	6	1-1/8	610
20	CMD20063H40	63	M-HE40	4	1	654
20	CMD20063H45	63	M-HE45	4-1/2	1	656
20	CMD20063H50	63	M-HE50	5	1	658
20	CMD20063H60	63	M-HE60	6	1-1/8	668
20	CMD20063H70	63	M-HE70	7	1-1/4	669
24	**CMD24026H30**	**26**	**M-HE30**	**3**	**7/8**	**561**
24	**CMD24026H35**	**26**	**M-HE35**	**3-1/2**	**7/8**	**560**
24	CMD24026H40	26	M-HE40	4	1	562
24	CMD24026H60	26	M-HE60	6	1-1/8	585
24	CMD24032H30	32	M-HE30	3	7/8	664
24	CMD24032H35	32	M-HE35	3-1/2	7/8	663
24	**CMD24032H40**	**32**	**M-HE40**	**4**	**1**	**664**
24	CMD24032H45	32	M-HE45	4-1/2	1	666
24	CMD24032H50	32	M-HE50	5	1	670
24	CMD24032H60	32	M-HE60	6	1-1/8	681
24	CMD24036H60	36	M-HE60	6	1-1/8	710
24	CMD24036H70	36	M-HE70	7	1-1/4	716
24	CMD24036H80	36	M-HE80	8	1-1/2	739
24	CMD24038H30	38	M-HE30	3	7/8	727
24	CMD24038H35	38	M-HE35	3-1/2	7/8	727
24	CMD24038H40	38	M-HE40	4	1	727
24	**CMD24038H45**	**38**	**M-HE45**	**4-1/2**	**1**	**730**
24	**CMD24038H50**	**38**	**M-HE50**	**5**	**1**	**733**
24	CMD24038H60	38	M-HE60	6	1-1/8	745
24	CMD24040H35	40	M-HE35	3-1/2	7/8	787
24	CMD24040H40	40	M-HE40	4	1	786
24	CMD24040H45	40	M-HE45	4-1/2	1	788
24	CMD24040H50	40	M-HE50	5	1	790
24	CMD24044H30	44	M-HE30	3	7/8	830
24	CMD24044H35	44	M-HE35	3-1/2	7/8	830
24	**CMD24044H40**	**44**	**M-HE40**	**4**	**1**	**828**
24	**CMD24044H45**	**44**	**M-HE45**	**4-1/2**	**1**	**830**
24	CMD24044H50	44	M-HE50	5	1	832
24	CMD24044H60	44	M-HE60	6	1-1/8	840
24	CMD24044H70	44	M-HE70	7	1-1/4	845
24	CMD24046H35	46	M-HE35	3-1/2	7/8	850
24	CMD24046H40	46	M-HE40	4	1	849
24	CMD24046H45	46	M-HE45	4-1/2	1	851
24	CMD24046H50	46	M-HE50	5	1	853
24	CMD24046H60	46	M-HE60	6	1-1/8	861

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Mine Duty – M-HE Bushed



Mine Duty Drum Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMD24051H30	51	M-HE30	3	7/8	904
24	CMD24051H35	51	M-HE35	3-1/2	7/8	903
24	CMD24051H40	51	M-HE40	4	1	901
24	**CMD24051H45**	**51**	**M-HE45**	**4-1/2**	**1**	**903**
24	**CMD24051H50**	**51**	**M-HE50**	**5**	**1**	**905**
24	CMD24051H60	51	M-HE60	6	1-1/8	914
24	CMD24051H70	51	M-HE70	7	1-1/4	902
24	CMD24054H40	54	M-HE40	4	1	933
24	CMD24054H45	54	M-HE45	4-1/2	1	935
24	CMD24054H50	54	M-HE50	5	1	937
24	CMD24054H60	54	M-HE60	6	1-1/8	946
24	CMD24054H70	54	M-HE70	7	1-1/4	939
24	CMD24057H35	57	M-HE35	3-1/2	7/8	966
24	CMD24057H40	57	M-HE40	4	1	964
24	CMD24057H45	57	M-HE45	4-1/2	1	966
24	CMD24057H50	57	M-HE50	5	1	968
24	CMD24057H60	57	M-HE60	6	1-1/8	977
24	CMD24057H70	57	M-HE70	7	1-1/4	965
24	CMD24057H80	57	M-HE80	8	1-1/2	984
24	CMD24063H35	63	M-HE35	3-1/2	7/8	1068
24	CMD24063H40	63	M-HE40	4	1	1065
24	CMD24063H45	63	M-HE45	4-1/2	1	1066
24	CMD24063H50	63	M-HE50	5	1	1067
24	CMD24063H60	63	M-HE60	6	1-1/8	1072
24	CMD24063H70	63	M-HE70	7	1-1/4	1057
24	CMD24063H80	63	M-HE80	8	1-1/2	1072
30	CMD30032H30	32	M-HE30	3	7/8	948
30	CMD30032H35	32	M-HE35	3-1/2	7/8	947
30	CMD30032H40	32	M-HE40	4	1	948
30	CMD30032H45	32	M-HE45	4-1/2	1	950
30	CMD30036H70	36	M-HE70	7	1-1/4	1010
30	CMD30038H40	38	M-HE40	4	1	1027
30	CMD30038H45	38	M-HE45	4-1/2	1	1029
30	CMD30038H50	38	M-HE50	5	1	1033
30	CMD30038H60	38	M-HE60	6	1-1/8	1044
30	CMD30038H70	38	M-HE70	7	1-1/4	1037
30	CMD30040H50	40	M-HE50	5	1	1120
30	CMD30044H40	44	M-HE40	4	1	1169
30	CMD30044H45	44	M-HE45	4-1/2	1	1171
30	CMD30044H50	44	M-HE50	5	1	1173
30	CMD30044H60	44	M-HE60	6	1-1/8	1182
30	CMD30044H70	44	M-HE70	7	1-1/4	1170
30	CMD30046H60	46	M-HE60	6	1-1/8	1208
30	CMD30046H80	46	M-HE80	8	1-1/2	1215
30	CMD30051H40	51	M-HE40	4	1	1261
30	CMD30051H45	51	M-HE45	4-1/2	1	1263
30	CMD30051H50	51	M-HE50	5	1	1265
30	CMD30051H60	51	M-HE60	6	1-1/8	1274
30	CMD30051H70	51	M-HE70	7	1-1/4	1262
30	CMD30051H80	51	M-HE80	8	1-1/2	1281
30	CMD30054H60	54	M-HE60	6	1-1/8	1313
30	CMD30057H50	57	M-HE50	5	1	1344
30	CMD30057H60	57	M-HE60	6	1-1/8	1353
30	CMD30057H70	57	M-HE70	7	1-1/4	1341
30	CMD30063H45	63	M-HE45	4-1/2	1	1483
30	CMD30063H50	63	M-HE50	5	1	1848
30	CMD30063H60	63	M-HE60	6	1-1/8	1489
30	CMD30063H70	63	M-HE70	7	1-1/4	1474
30	CMD30063H80	63	M-HE80	8	1-1/2	1489

Mine Duty Drum Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
32	CMD32032H60	32	M-HE60	6	1-1/8	1070
36	CMD36038H70	38	M-HE70	7	1-1/4	1383
36	CMD36044H45	44	M-HE45	4-1/2	1	1565
36	CMD36044H50	44	M-HE50	5	1	1566
36	CMD36044H60	44	M-HE60	6	1-1/8	1575
36	CMD36044H70	44	M-HE70	7	1-1/4	1564
36	CMD36044H80	44	M-HE80	8	1-1/2	1583
36	CMD36046H80	46	M-HE80	8	1-1/2	1614
36	CMD36051H50	51	M-HE50	5	1	1677
36	CMD36051H60	51	M-HE60	6	1-1/8	1687
36	CMD36051H70	51	M-HE70	7	1-1/4	1674
36	CMD36051H80	51	M-HE80	8	1-1/2	1693
36	CMD36054H60	54	M-HE60	6	1-1/8	1733
36	CMD36057H60	57	M-HE60	6	1-1/8	1780
36	CMD36063H60	63	M-HE60	6	1-1/8	1965
36	CMD36063H70	63	M-HE70	7	1-1/4	1949
36	CMD36063H80	63	M-HE80	8	1-1/2	1964

Mine Duty Drum Pulley — M-HE Bushed (Lagged)

Dia. (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Lagging	Approx. Weight (lbs)
12	**CMD12026H35L3H**	**26**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**151**
12	CMD12032H25L3H	32	M-HE25	2-1/2	3/4	3/8	178
12	**CMD12032H35L3H**	**32**	**M-HE35**	**3 1/2**	**7/8**	**3/8**	**167**
12	CMD12038H25L3H	38	M-HE25	2-1/2	3/4	3/8	202
12	**CMD12038H35L3H**	**38**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**224**
12	CMD12040H30L3H	40	M-HE30	3	7/8	3/8	222
12	CMD12044H25L3H	44	M-HE25	2-1/2	3/4	3/8	235
14	CMD14032H25L3H	32	M-HE25	2-1/2	3/4	3/8	237
14	CMD14038H30L3H	38	M-HE30	3	7/8	3/8	264
14	**CMD14038H35L3H**	**38**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**299**
16	**CMD16026H35L3H**	**26**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**281**
16	**CMD16032H30L3H**	**32**	**M-HE30**	**3**	**7/8**	**3/8**	**287**
16	**CMD16032H35L3H**	**32**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**312**
16	CMD16038H30L3H	38	M-HE30	3	7/8	3/8	319
16	**CMD16038H35L3H**	**38**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**315**
16	CMD16040H35L3H	40	M-HE35	3-1/2	7/8	3/8	344
16	CMD16044H30L3H	44	M-HE30	3	7/8	3/8	366
16	**CMD16044H40L3H**	**44**	**M-HE40**	**4**	**1**	**3/8**	**375**
16	CMD16046H40L3H	46	M-HE40	4	1	3/8	377
18	**CMD18026H35L3H**	**26**	**M-HE35**	**3-1/2**	**7/8**	**3/8**	**384**
18	CMD18032H30L3H	32	M-HE30	3	7/8	3/8	343
18	**CMD18032H40L3H**	**32**	**M-HE40**	**4**	**7/8**	**3/8**	**385**
18	**CMD18038H40L3H**	**38**	**M-HE40**	**4**	**1**	**3/8**	**379**
18	CMD18040H30L3H	40	M-HE30	3	7/8	3/8	412
18	**CMD18044H40L3H**	**44**	**M-HE40**	**4**	**1**	**3/8**	**436**
18	CMD18046H40L3H	46	M-HE40	4	1	3/8	448
20	CMD20032H35L3H	32	M-HE35	3-1/2	7/8	3/8	402
20	**CMD20038H40L3H**	**38**	**M-HE40**	**4**	**1**	**3/8**	**442**
20	CMD20044H40L3H	44	M-HE40	4	1	3/8	510
20	CMD20046H45L3H	46	M-HE45	4-1/2	1	3/8	526
24	**CMD24032H40L3H**	**32**	**M-HE40**	**4**	**1**	**3/8**	**668**
24	**CMD24038H40L3H**	**38**	**M-HE40**	**4**	**1**	**3/8**	**734**
24	CMD24040H40L3H	40	M-HE40	4	1	3/8	791
24	CMD24044H40L3H	44	M-HE40	4	1	3/8	833
24	CMD24046H45L3H	46	M-HE45	4-1/2	1	3/8	856

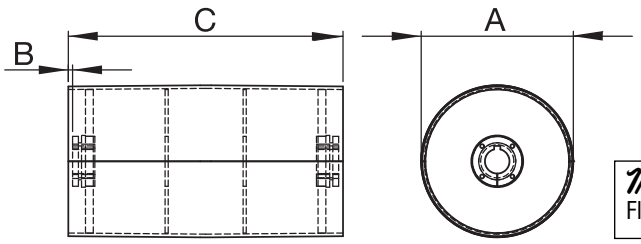
* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Quarry Duty

Quarry Duty Drum Pulleys





Martin offers Quarry Duty Drum Pulleys using a minimum 1/2" rim, 1-1/4" end discs, and 1/2" center discs, as well as an additional center disc. Each Quarry Duty Drum Pulley features a two piece rolled rim, which has been fabricated on either of our flat or custom crowned roll machines. The rims are trimmed and hydraulically seated around the heavy end discs to ensure maximum concentricity. Once the pulley is formed, Martin utilizes a double or triple pass submerged arc weldment to ensure optimum connection of its individual components.

FEATURES:

- 12" to 60" Diameter
- 1/2" thru 1" Rims
- 1-1/4" and Heavier End Discs
- 1/2" Center Plates
- Full Depth Key Bushings
- Double Sub-Arc Weldments

Martin's Quarry Duty Drum Pulleys are manufactured with Crown face. Flat face available upon request.

Quarry Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	CQD12026X35	26	MXT35	3-1/2	7/8	188
12	CQD12032X35	32	MXT35	3-1/2	7/8	240
12	CQD12038X35	38	MXT35	3-1/2	7/8	271
12	CQD12044X35	44	MXT35	3-1/2	7/8	313
12	CQD12051X35	51	MXT35	3-1/2	7/8	350
12	CQD12057X35	57	MXT35	3-1/2	7/8	382
12	CQD12063X35	63	MXT35	3-1/2	7/8	424
14	CQD14026X35	26	MXT35	3-1/2	7/8	246
14	CQD14032X35	32	MXT35	3-1/2	7/8	310
14	CQD14038X35	38	MXT35	3-1/2	7/8	346
14	CQD14044X35	44	MXT35	3-1/2	7/8	396
14	CQD14051X35	51	MXT35	3-1/2	7/8	439
14	CQD14057X35	57	MXT35	3-1/2	7/8	481
14	CQD14063X35	63	MXT35	3-1/2	7/8	532
16	CQD16026X35	26	MXT35	3-1/2	7/8	300
16	CQD16026X40	26	MXT40	4	1	302
16	CQD16032X35	32	MXT35	3-1/2	7/8	381
16	CQD16032X40	32	MXT40	4	1	378
16	CQD16038X35	38	MXT35	3-1/2	7/8	423
16	CQD16038X40	38	MXT40	4	1	420
16	CQD16044X35	44	MXT35	3-1/2	7/8	484
16	CQD16044X40	44	MXT40	4	1	479
16	CQD16051X35	51	MXT35	3-1/2	7/8	533
16	CQD16051X40	51	MXT40	4	1	528
16	CQD16057X35	57	MXT35	3-1/2	7/8	575
16	CQD16057X40	57	MXT40	4	1	571
16	CQD16063X40	63	MXT40	4	1	629
16	CQD16063X35	63	MXT35	3-1/2	7/8	636
18	CQD18026X35	26	MXT35	3-1/2	7/8	359
18	CQD18026X40	26	MXT40	4	1	360
18	CQD18032X35	32	MXT35	3-1/2	7/8	459
18	CQD18032X40	32	MXT40	4	1	456
18	CQD18038X35	38	MXT35	3-1/2	7/8	506
18	CQD18038X40	38	MXT40	4	1	504
18	CQD18044X35	44	MXT35	3-1/2	7/8	580
18	CQD18044X40	44	MXT40	4	1	575

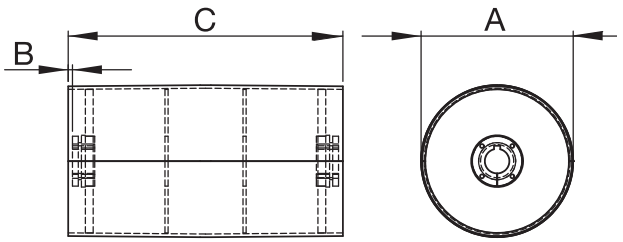
Quarry Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CQD18051X35	51	MXT35	3-1/2	7/8	635
18	CQD18051X40	51	MXT40	4	1	630
18	CQD18057X35	57	MXT35	3-1/2	7/8	682
18	CQD18057X40	57	MXT40	4	1	677
18	CQD18063X35	63	MXT35	3-1/2	7/8	755
18	CQD18063X40	63	MXT40	4	1	748
20	CQD20026X35	26	MXT35	3-1/2	7/8	421
20	CQD20032X35	32	MXT35	3-1/2	7/8	543
20	CQD20032X40	32	MXT40	4	1	540
20	CQD20032X45	32	MXT45	4-1/2	1	541
20	CQD20038X35	38	MXT35	3-1/2	7/8	560
20	CQD20038X40	38	MXT40	4	1	593
20	CQD20038X45	38	MXT45	4-1/2	1	593
20	CQD20044X35	44	MXT35	3-1/2	7/8	682
20	CQD20044X40	44	MXT40	4	1	677
20	CQD20044X45	44	MXT45	4-1/2	1	677
20	CQD20051X35	51	MXT35	3-1/2	7/8	744
20	CQD20051X40	51	MXT40	4	1	738
20	CQD20051X45	51	MXT45	4-1/2	1	739
20	CQD20057X35	57	MXT35	3-1/2	7/8	796
20	CQD20057X40	57	MXT40	4	1	791
20	CQD20057X45	57	MXT45	4-1/2	1	791
20	CQD20063X35	63	MXT35	3-1/2	7/8	882
20	CQD20063X40	63	MXT40	4	1	875
20	CQD20063X45	63	MXT45	4-1/2	1	875
24	CQD24026X35	26	MXT35	3-1/2	7/8	561
24	CQD24026X40	26	MXT40	4	1	563
24	CQD24026X45	26	MXT45	4-1/2	1	563
24	CQD24032X35	32	MXT35	3-1/2	7/8	730
24	CQD24032X40	32	MXT40	4	1	727
24	CQD24032X45	32	MXT45	4-1/2	1	727
24	CQD24038X35	38	MXT35	3-1/2	7/8	793
24	CQD24038X40	38	MXT40	4	1	790
24	CQD24038X45	38	MXT45	4-1/2	1	790
24	CQD24044X35	44	MXT35	3-1/2	7/8	909
24	CQD24044X40	44	MXT40	4	1	904

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys — Quarry Duty



Quarry Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CQD24044X45	44	MXT45	4-1/2	1	904
24	CQD24051X35	51	MXT35	3-1/2	7/8	982
24	CQD24051X40	51	MXT40	4	1	977
24	CQD24051X45	51	MXT45	4-1/2	1	977
24	CQD24057X35	57	MXT35	3-1/2	7/8	1,045
24	CQD24057X40	57	MXT40	4	1	1,040
24	CQD24057X45	57	MXT45	4-1/2	1	1,040
24	CQD24063X35	63	MXT35	3-1/2	7/8	1,160
24	CQD24063X40	63	MXT40	4	1	1,153
24	CQD24063X45	63	MXT45	4-1/2	1	1,153
30	CDQ30026X40	26	MXT40	4	1	805
30	CDQ30026X45	26	MXT45	4-1/2	1	805
30	CDQ30026X50	26	MXT50	5	1	806
30	CDQ30032X40	32	MXT40	4	1	1,054
30	CDQ30032X45	32	MXT45	4-1/2	1	1,055
30	CDQ30032X50	32	MXT50	5	1	1,050
30	CDQ30038X40	38	MXT40	4	1	1,133
30	CDQ30038X45	38	MXT45	4-1/2	1	1,133
30	CDQ30038X50	38	MXT50	5	1	1,128
30	CDQ30044X40	44	MXT40	4	1	1,297
30	CDQ30044X45	44	MXT45	4-1/2	1	1,297
30	CDQ30044X50	44	MXT50	5	1	1,289
30	CDQ30051X40	51	MXT40	4	1	1,388
30	CDQ30051X45	51	MXT45	4-1/2	1	1,388
30	CDQ30051X50	51	MXT50	5	1	1,381
30	CDQ30057X40	57	MXT40	4	1	1,467

Quarry Duty Drum Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
30	CDQ30057X45	57	MXT45	4-1/2	1	1,467
30	CDQ30057X50	57	MXT50	5	1	1,459
30	CDQ30063X40	63	MXT40	4	1	1,629
30	CDQ30063X45	63	MXT45	4-1/2	1	1,630
30	CDQ30063X50	63	MXT50	5	1	1,619
36	CDQ36026X40	26	MXT40	4	1	1,087
36	CDQ36026X45	26	MXT45	4-1/2	1	1,087
36	CDQ36026X50	26	MXT50	5	1	1,088
36	CDQ36032X40	32	MXT40	4	1	1,438
36	CDQ36032X45	32	MXT45	4-1/2	1	1,438
36	CDQ36032X50	32	MXT50	5	1	1,433
36	CDQ36038X40	38	MXT40	4	1	1,532
36	CDQ36038X45	38	MXT45	4-1/2	1	1,532
36	CDQ36038X50	38	MXT50	5	1	1,527
36	CDQ36044X40	44	MXT40	4	1	1,754
36	CDQ36044X45	44	MXT45	4-1/2	1	1,754
36	CDQ36044X50	44	MXT50	5	1	1,746
36	CDQ36051X40	51	MXT40	4	1	1,864
36	CDQ36051X45	51	MXT45	4-1/2	1	1,864
36	CDQ36051X50	51	MXT50	5	1	1,856
36	CDQ36057X40	57	MXT40	4	1	1,958
36	CDQ36057X45	57	MXT45	4-1/2	1	1,958
36	CDQ36057X50	57	MXT50	5	1	1,950
36	CDQ36063X40	63	MXT40	4	1	2,179
36	CDQ36063X45	63	MXT45	4-1/2	1	2,179
36	CDQ36063X50	63	MXT50	5	1	2,168

* General position for bushing face - for position per application consult Martin.

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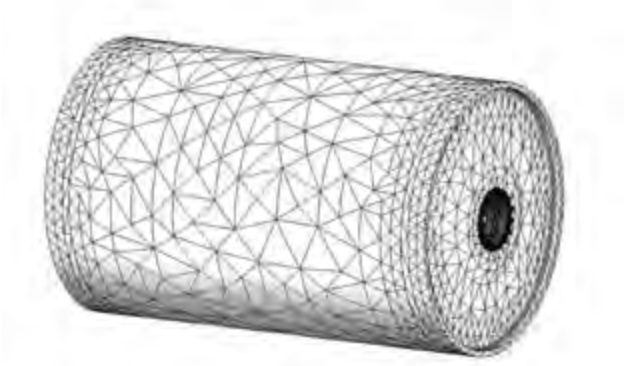
Custom Shafting Available!

Call Martin

Engineering Class Drum Pulleys

Martin's Engineering Class Drum Pulleys are designed per the application and are typically applied in the most aggressive applications in the industry. Our Engineering Class Drum Pulleys are designed with the most up to date software programs and backed up with years of experience in our engineering department.

Martin has the ability to provide many custom and unique manufacturing processes to ensure optimal performance in each application; balancing, magnetic particle testing, and stress relieving are among a few.



Engineering Class Pulley with FEA Mesh

FEATURES:

- Available in Any Diameter
- End Disc Profile is Engineered per Application
- Several Shaft Locking Mechanism Systems Available
- Balancing, Stress Relieving, Weld Testing & Additional Operations are Available.



T-Bottom (TB) Engineered Drum



Turbo Disc (TD) Engineered Drum



Engineered Mine Duty (EMD)

OPTIONS:

- All Lagging Options Available
- Shafting
- Bearing Assemblies

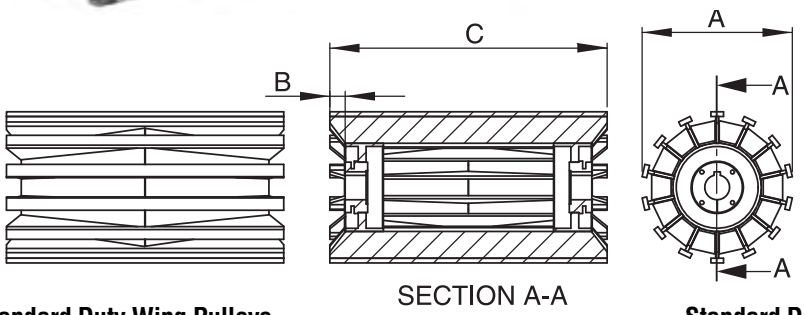
Call Martin for fast turn around times on Made-To-Order Engineering Class Pulleys!

Wing Pulleys — Standard Duty

Standard Duty Wing Pulleys



Martin's Standard Duty Wing Pulleys are constructed from extremely heavy materials and are recognized in the industry as the most aggressive CEMA grade stock pulley on the shelf. All Martin wing pulleys utilize the unique 'end-pipe' design, which offers ultimate protection against wing folding and hub-weld fatigue. Our minimum 3/8" thick contact bar yields additional life in abrasive applications where our competitors thinner bar does not. Additionally, our ¼" thick wing offers greater structural support in aggressive applications.



SECTION A-A

FEATURES:

- Available in 6" thru 60" Diameter
- Minimum 3/8" x 1-1/4" Contact Bars
- Minimum 1/4" Thick Wings
- Minimum 10 ga. Gussets
- Features Unique Martin 'End Pipe' Design
  - Better Protection Against Wing Folding
  - Better Protection Against Hub-Weld Fatigue
- Several Hub/Bushing Systems Available

Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
8	CSW08012X25	12	MXT25	2-1/2	2.625	36
8	CSW08014X25	14	MXT25	2-1/2	2.625	40
8	CSW08016X25	16	MXT25	2-1/2	2.625	46
8	CSW08018X25	18	MXT25	2-1/2	2.625	51
8	**CSW08020X25**	**20**	**MXT25**	**2-1/2**	**2.625**	**56**
8	CSW08022X25	22	MXT25	2-1/2	2.625	61
8	CSW08024X25	24	MXT25	2-1/2	2.625	66
8	**CSW08026X25**	**26**	**MXT25**	**2-1/2**	**2.625**	**71**
8	CSW08028X25	28	MXT25	2-1/2	2.625	75
8	CSW08030X25	30	MXT25	2-1/2	2.625	80
8	**CSW08032X25**	**32**	**MXT25**	**2-1/2**	**2.625**	**85**
8	**CSW08038X25**	**38**	**MXT25**	**2-1/2**	**2.625**	**103**
8	CSW08044X25	44	MXT25	2-1/2	2.625	118
8	CSW08051X25	51	MXT25	2-1/2	2.625	138
8	CSW08063X25	63	MXT25	2-1/2	2.625	171
8	CSW08063X30	63	MXT30	3	2.875	259
10	CSW10012X25	12	MXT25	2-1/2	2.625	40
10	CSW10012X30	12	MXT30	3	2.875	53
10	CSW10014X25	14	MXT25	2-1/2	2.625	47
10	CSW10014X30	14	MXT30	3	2.875	55
10	CSW10016X25	16	MXT25	2-1/2	2.625	54
10	CSW10016X30	16	MXT30	3	2.875	64
10	CSW10018X25	18	MXT25	2-1/2	2.625	60
10	CSW10018X30	18	MXT30	3	2.875	72
10	**CSW10020X25**	**20**	**MXT25**	**2-1/2**	**2.625**	**67**
10	CSW10020X30	20	MXT30	3	2.875	78
10	CSW10022X25	22	MXT25	2-1/2	2.625	73
10	CSW10022X30	22	MXT30	3	2.875	83
10	CSW10024X25	24	MXT25	2-1/2	2.625	79
10	CSW10024X30	24	MXT30	3	2.875	89
10	**CSW10026X25**	**26**	**MXT25**	**2-1/2**	**2.625**	**86**
10	CSW10026X30	26	MXT30	3	2.875	94
10	CSW10030X25	30	MXT25	2-1/2	2.625	98
10	CSW10030X30	30	MXT30	3	2.875	105
10	**CSW10032X25**	**32**	**MXT25**	**2-1/2**	**2.625**	**104**
10	CSW10032X30	32	MXT30	3	2.875	111

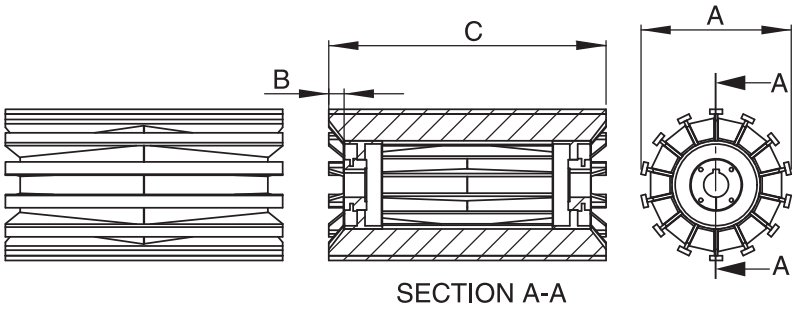
Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
10	CSW10036X25	36	MXT25	2-1/2	2.625	117
10	CSW10036X30	36	MXT30	3	2.875	122
10	**CSW10038X25**	**38**	**MXT25**	**2-1/2**	**2.625**	**126**
10	CSW10038X35	38	MXT35	3-1/2	3.75	129
10	**CSW10044X25**	**44**	**MXT25**	**2-1/2**	**2.625**	**145**
10	CSW10044X30	44	MXT30	3	2.875	150
10	CSW10051X25	51	MXT25	2-1/2	2.625	170
10	**CSW10051X30**	**51**	**MXT30**	**3**	**2.875**	**176**
10	CSW10051X35	51	MXT35	3-1/2	3.75	170
10	CSW10057X30	57	MXT30	3	2.875	193
10	CSW10057X35	57	MXT35	3-1/2	3.75	186
10	CSW10063X25	63	MXT25	2-1/2	2.625	211
10	CSW10063X30	63	MXT30	3	2.875	216
10	CSW10063X35	63	MXT35	3-1/2	3.75	209
12	CSW12012X25	12	MXT25	2-1/2	2.625	51
12	CSW12012X30	12	MXT30	3	2.875	58
12	CSW12012X35	12	MXT35	3-1/2	3.75	53
12	CSW12014X25	14	MXT25	2-1/2	2.625	60
12	CSW12014X30	14	MXT30	3	2.875	65
12	CSW12014X35	14	MXT35	3-1/2	3.75	57
12	CSW12016X25	16	MXT25	2-1/2	2.625	68
12	CSW12016X30	16	MXT30	3	2.875	78
12	CSW12016X35	16	MXT35	3-1/2	3.75	74
12	CSW12018X25	18	MXT25	2-1/2	2.625	76
12	CSW12018X30	18	MXT30	3	2.875	86
12	CSW12018X35	18	MXT35	3-1/2	3.75	81
12	**CSW12020X25**	**20**	**MXT25**	**2-1/2**	**2.625**	**84**
12	CSW12020X30	20	MXT30	3	2.875	93
12	CSW12020X35	20	MXT35	3-1/2	3.75	89
12	CSW12022X25	22	MXT25	2-1/2	2.625	93
12	CSW12022X30	22	MXT30	3	2.875	100
12	CSW12022X35	22	MXT35	3-1/2	3.75	96
12	CSW12024X25	24	MXT25	2-1/2	2.625	101
12	CSW12024X30	24	MXT30	3	2.875	108
12	CSW12024X35	24	MXT35	3-1/2	3.75	103
12	**CSW12026X25**	**26**	**MXT25**	**2-1/2**	**2.625**	**110**

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Standard Duty



Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	**CSW12026X30**	**26**	**MXT30**	**3**	**2.875**	**115**
12	CSW12026X35	26	MXT35	3-1/2	3.75	111
12	CSW12028X25	28	MXT25	2-1/2	2.625	118
12	CSW12030X25	30	MXT25	2-1/2	2.625	126
12	CSW12030X30	30	MXT30	3	2.875	130
12	CSW12030X35	30	MXT35	3-1/2	3.75	125
12	**CSW12032X25**	**32**	**MXT25**	**2-1/2**	**2.625**	**135**
12	**CSW12032X30**	**32**	**MXT30**	**3**	**2.875**	**137**
12	CSW12032X35	32	MXT35	3-1/2	3.75	133
12	CSW12036X25	36	MXT25	2-1/2	2.625	152
12	CSW12036X30	36	MXT30	3	2.875	152
12	CSW12036X35	36	MXT35	3-1/2	3.75	147
12	**CSW12038X25**	**38**	**MXT25**	**2-1/2**	**2.625**	**160**
12	**CSW12038X30**	**38**	**MXT30**	**3**	**2.875**	**159**
12	CSW12038X35	38	MXT35	3-1/2	3.75	155
12	CSW12038X40	38	MXT40	4	4.125	161
12	CSW12040X25	40	MXT25	2-1/2	2.625	168
12	CSW12040X30	40	MXT30	3	2.875	166
12	CSW12040X35	40	MXT35	3-1/2	3.75	162
12	**CSW12044X25**	**44**	**MXT25**	**2-1/2**	**2.625**	**185**
12	**CSW12044X30**	**44**	**MXT30**	**3**	**2.875**	**181**
12	CSW12044X35	44	MXT35	3-1/2	3.75	177
12	CSW12044X40	44	MXT40	4	4.125	179
12	CSW12051X25	51	MXT25	2-1/2	2.625	218
12	**CSW12051X30**	**51**	**MXT30**	**3**	**2.875**	**123**
12	**CSW12051X35**	**51**	**MXT35**	**3-1/2**	**3.75**	**209**
12	CSW12057X35	57	MXT35	3-1/2	3.75	231
12	**CSW12063X30**	**63**	**MXT30**	**3**	**2.875**	**264**
14	CSW14012X25	12	MXT25	2-1/2	2.625	63
14	CSW14012X30	12	MXT30	3	2.875	68
14	CSW14012X35	12	MXT35	3-1/2	3.75	62
14	CSW14012X40	12	MXT40	4	4.125	74
14	CSW14014X25	14	MXT25	2-1/2	2.625	69
14	CSW14014X30	14	MXT30	3	2.875	80
14	CSW14014X35	14	MXT35	3-1/2	3.75	74
14	CSW14014X40	14	MXT40	4	4.125	87
14	CSW14016X25	16	MXT25	2-1/2	2.625	83
14	CSW14016X30	16	MXT30	3	2.875	93
14	CSW14016X35	16	MXT35	3-1/2	3.75	87
14	CSW14016X40	16	MXT40	4	4.125	99
14	CSW14018X25	18	MXT25	2-1/2	2.625	94
14	CSW14018X30	18	MXT30	3	2.875	102
14	CSW14018X35	18	MXT35	3-1/2	3.75	97
14	CSW14018X40	18	MXT40	4	4.125	112
14	CSW14020X25	20	MXT25	2-1/2	2.625	105
14	CSW14020X30	20	MXT30	3	2.875	112
14	CSW14020X35	20	MXT35	3-1/2	3.75	106
14	CSW14020X40	20	MXT40	4	4.125	125
14	CSW14022X25	22	MXT25	2-1/2	2.625	115
14	CSW14022X30	22	MXT30	3	2.875	121
14	CSW14022X35	22	MXT35	3-1/2	3.75	116

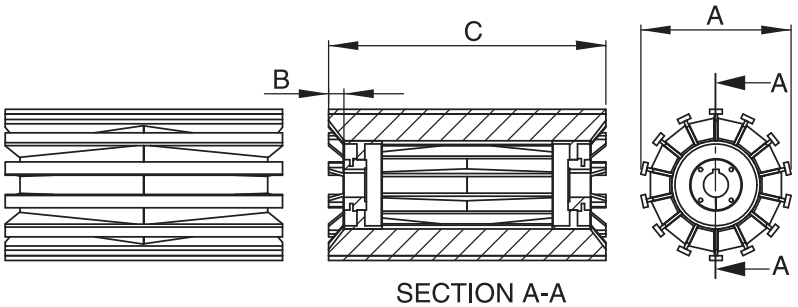
Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	CSW14022X40	22	MXT40	4	4.125	128
14	CSW14024X25	24	MXT25	2-1/2	2.625	126
14	CSW14024X30	24	MXT30	3	2.875	131
14	CSW14024X35	24	MXT35	3-1/2	3.75	125
14	CSW14024X40	24	MXT40	4	4.125	136
14	**CSW14026X25**	**26**	**MXT25**	**2-1/2**	**2.625**	**137**
14	**CSW14026X30**	**26**	**MXT30**	**3**	**2.875**	**140**
14	CSW14026X35	26	MXT35	3-1/2	3.75	135
14	CSW14026X40	26	MXT40	4	4.125	145
14	CSW14030X25	30	MXT25	2-1/2	2.625	158
14	CSW14030X30	30	MXT30	3	2.875	159
14	CSW14030X35	30	MXT35	3-1/2	3.75	154
14	CSW14030X40	30	MXT40	4	4.125	161
14	**CSW14032X25**	**32**	**MXT25**	**2-1/2**	**2.625**	**169**
14	**CSW14032X30**	**32**	**MXT30**	**3**	**2.875**	**169**
14	CSW14032X35	32	MXT35	3-1/2	3.75	163
14	CSW14032X40	32	MXT40	4	4.125	170
14	CSW14034X25	34	MXT25	2-1/2	2.625	180
14	CSW14034X30	34	MXT30	3	2.875	178
14	CSW14036X25	36	MXT25	2-1/2	2.625	191
14	CSW14036X30	36	MXT30	3	2.875	188
14	CSW14036X35	36	MXT35	3-1/2	3.75	182
14	CSW14036X40	36	MXT40	4	4.125	186
14	**CSW14038X25**	**38**	**MXT25**	**2-1/2**	**2.625**	**202**
14	**CSW14038X30**	**38**	**MXT30**	**3**	**2.875**	**198**
14	CSW14038X40	38	MXT40	4	4.125	195
14	CSW14038X45	38	MXT45	4-1/2	4.25	192
14	CSW14038X50	38	MXT50	5	5.25	220
14	CSW14040X25	40	MXT25	2-1/2	2.625	212
14	**CSW14040X30**	**40**	**MXT30**	**3**	**2.875**	**207**
14	CSW14040X35	40	MXT35	3-1/2	3.75	201
14	CSW14040X40	40	MXT40	4	4.125	203
14	CSW14044X25	44	MXT25	2-1/2	2.625	234
14	**CSW14044X30**	**44**	**MXT30**	**3**	**2.875**	**226**
14	CSW14044X35	44	MXT35	3-1/2	3.75	221
14	CSW14044X40	44	MXT40	4	4.125	220
14	CSW14046X25	46	MXT25	2-1/2	2.625	245
14	CSW14046X30	46	MXT30	3	2.875	236
14	CSW14046X35	46	MXT35	3-1/2	3.75	230
14	CSW14046X40	46	MXT40	4	4.125	228
14	CSW14051X25	51	MXT25	2-1/2	2.625	275
14	CSW14051X30	51	MXT30	3	2.875	267
14	**CSW14051X35**	**51**	**MXT35**	**3-1/2**	**3.75**	**261**
14	CSW14051X40	51	MXT40	4	4.125	261
14	CSW14051X45	51	MXT45	4-1/2	4.75	258
14	CSW14054X30	54	MXT30	3	2.875	281
14	CSW14057X30	57	MXT30	3	2.875	295
14	CSW14057X35	57	MXT35	3-1/2	3.75	290
14	CSW14057X40	57	MXT40	4	4.125	286
14	CSW14063X25	63	MXT25	2-1/2	2.625	343

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Standard Duty



SECTION A-A

Standard Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	CSW14063X30	63	MXT30	3	2.875	331
14	CSW14063X35	63	MXT35	3-1/2	3.75	325
14	CSW14063X40	63	MXT40	4	4.125	323
16	CSW16012X25	12	MXT25	2-1/2	2.625	71
16	CSW16012X30	12	MXT30	3	2.875	76
16	CSW16012X35	12	MXT35	3-1/2	3.75	69
16	CSW16012X40	12	MXT40	4	4.125	80
16	CSW16014X25	14	MXT25	2-1/2	2.625	79
16	CSW16014X30	14	MXT30	3	2.875	90
16	CSW16014X35	14	MXT35	3-1/2	3.75	83
16	CSW16014X40	14	MXT40	4	4.125	94
16	CSW16016X25	16	MXT25	2-1/2	2.625	93
16	CSW16016X30	16	MXT30	3	2.875	103
16	CSW16016X35	16	MXT35	3-1/2	3.75	96
16	CSW16016X40	16	MXT40	4	4.125	108
16	CSW16018X25	18	MXT25	2-1/2	2.625	107
16	CSW16018X30	18	MXT30	3	2.875	114
16	CSW16018X35	18	MXT35	3-1/2	3.75	108
16	CSW16018X40	18	MXT40	4	4.125	122
16	CSW16020X25	20	MXT25	2-1/2	2.625	119
16	CSW16020X30	20	MXT30	3	2.875	125
16	CSW16020X35	20	MXT35	3-1/2	3.75	119
16	CSW16020X40	20	MXT40	4	4.125	137
16	CSW16022X25	22	MXT25	2-1/2	2.625	131
16	CSW16022X30	22	MXT30	3	2.875	136
16	CSW16022X35	22	MXT35	3-1/2	3.75	130
16	CSW16022X40	22	MXT40	4	4.125	141
16	CSW16024X25	24	MXT25	2-1/2	2.625	143
16	CSW16024X30	24	MXT30	3	2.875	147
16	CSW16024X35	24	MXT35	3-1/2	3.75	141
16	CSW16024X40	24	MXT40	4	4.125	151
16	**CSW16026X25**	**26**	**MXT25**	**2-1/2**	**2.625**	**156**
16	**CSW16026X30**	**26**	**MXT30**	**3**	**2.875**	**158**
16	CSW16026X35	26	MXT35	3-1/2	3.75	152
16	CSW16026X40	26	MXT40	4	4.125	161
16	CSW16028X25	28	MXT25	2-1/2	2.625	168
16	CSW16028X30	28	MXT30	3	2.875	170
16	CSW16028X35	28	MXT35	3-1/2	3.75	163
16	CSW16030X25	30	MXT25	2-1/2	2.625	180
16	CSW16030X30	30	MXT30	3	2.875	181
16	CSW16030X35	30	MXT35	3-1/2	3.75	174
16	CSW16030X40	30	MXT40	4	4.125	181
16	**CSW16032X25**	**32**	**MXT25**	**2-1/2**	**2.625**	**193**
16	**CSW16032X30**	**32**	**MXT30**	**3**	**2.875**	**192**
16	CSW16032X35	32	MXT35	3-1/2	3.75	185
16	CSW16032X40	32	MXT40	4	4.125	191
16	CSW16036X25	36	MXT25	2-1/2	2.625	218
16	CSW16036X30	36	MXT30	3	2.875	214
16	CSW16036X35	36	MXT35	3-1/2	2.875	208
16	CSW16036X40	36	MXT40	4	4.125	211
16	**CSW16038X25**	**38**	**MXT25**	**2-1/2**	**2.625**	**230**

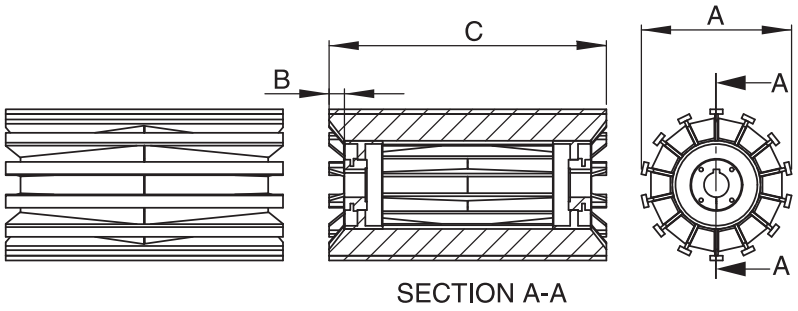
Standard Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	**CSW16038X30**	**38**	**MXT30**	**3**	**2.875**	**226**
16	**CSW16038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**219**
16	CSW16038X45	38	MXT45	4-1/2	4.75	217
16	CSW16040X25	40	MXT25	2-1/2	2.625	242
16	CSW16040X30	40	MXT30	3	2.875	237
16	CSW16040X35	40	MXT35	3-1/2	3.75	230
16	CSW16040X40	40	MXT40	4	4.125	231
16	CSW16040X45	40	MXT45	4-1/2	4.75	227
16	CSW16044X25	44	MXT25	2-1/2	2.625	267
16	**CSW16044X30**	**44**	**MXT30**	**3**	**2.875**	**259**
16	**CSW16044X35**	**44**	**MXT35**	**3-1/2**	**3.75**	**252**
16	CSW16044X40	44	MXT40	4	4.125	251
16	CSW16044X45	44	MXT45	4-1/2	4.75	247
16	CSW16046X25	46	MXT25	2-1/2	2.625	280
16	CSW16046X30	46	MXT30	3	2.875	270
16	CSW16046X35	46	MXT35	3-1/2	3.75	264
16	CSW16046X40	46	MXT40	4	4.125	261
16	CSW16051X25	51	MXT25	2-1/2	2.625	314
16	**CSW16051X30**	**51**	**MXT30**	**3**	**2.875**	**305**
16	**CSW16051X35**	**51**	**MXT35**	**3-1/2**	**3.75**	**298**
16	CSW16051X40	51	MXT40	4	4.125	297
16	CSW16051X45	51	MXT45	4-1/2	4.75	294
16	CSW16057X40	57	MXT40	4	4.125	328
16	CSW16057X45	57	MXT45	4-1/2	4.75	324
16	CSW16063X25	63	MXT25	2-1/2	2.625	392
16	CSW16063X30	63	MXT30	3	2.875	379
16	CSW16063X35	63	MXT35	3-1/2	3.75	372
16	CSW16063X45	63	MXT45	4-1/2	4.75	365
16	CSW16063X50	63	MXT50	5	5.25	410
16	CSW16076X35	76	MXT35	3-1/2	3.75	452
18	CSW18012X25	12	MXT25	2-1/2	2.625	141
18	CSW18012X30	12	MXT30	3	2.875	113
18	CSW18012X35	12	MXT35	3-1/2	3.75	103
18	CSW18012X40	12	MXT40	4	4.125	112
18	CSW18012X45	12	MXT45	4-1/2	4.75	105
18	CSW18014X25	14	MXT25	2-1/2	2.625	110
18	CSW18014X30	14	MXT30	3	2.875	134
18	CSW18014X35	14	MXT35	3-1/2	3.75	123
18	CSW18014X40	14	MXT40	4	4.125	132
18	CSW18014X45	14	MXT45	4-1/2	4.75	125
18	CSW18016X25	16	MXT25	2-1/2	2.625	134
18	CSW18016X30	16	MXT30	3	2.875	152
18	CSW18016X35	16	MXT35	3-1/2	3.75	144
18	CSW18016X40	16	MXT40	4	4.125	153
18	CSW18016X45	16	MXT45	4-1/2	4.75	145
18	CSW18018X25	18	MXT25	2-1/2	2.625	158
18	CSW18018X30	18	MXT30	3	2.875	170
18	CSW18018X35	18	MXT35	3-1/2	3.75	161
18	CSW18018X40	18	MXT40	4	4.125	173
18	CSW18018X45	18	MXT45	4-1/2	4.75	166

* General position for bushing face - for position per application consult Martin.

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Wing Pulleys — Standard Duty



Standard Duty Wing Pulleys

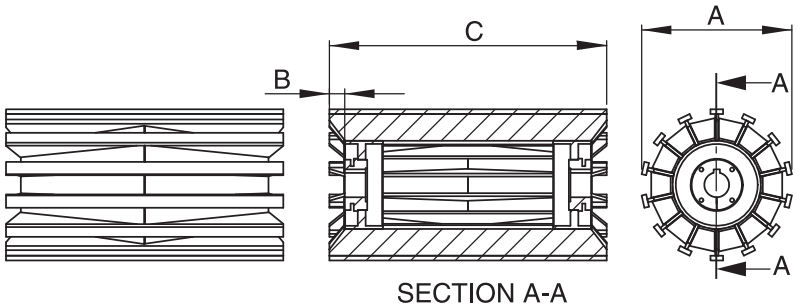
Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CSW18020X25	20	MXT25	2-1/2	2.625	182
18	CSW18020X30	20	MXT30	3	2.875	187
18	CSW18020X35	20	MXT35	3-1/2	3.75	179
18	CSW18020X40	20	MXT40	4	1	194
18	CSW18020X45	20	MXT45	4-1/2	1	187
18	CSW18022X25	22	MXT25	2-1/2	3/4	206
18	CSW18022X30	22	MXT30	3	2.875	205
18	CSW18022X35	22	MXT35	3-1/2	3.75	197
18	CSW18022X40	22	MXT40	4	1	205
18	CSW18022X45	22	MXT45	4-1/2	1	200
18	CSW18024X25	24	MXT25	2-1/2	3/4	232
18	CSW18024X30	24	MXT30	3	2.875	223
18	CSW18024X35	24	MXT35	3-1/2	3.75	215
18	CSW18024X40	24	MXT40	4	1	221
18	CSW18024X45	24	MXT45	4-1/2	1	216
18	CSW18026X25	26	MXT25	2-1/2	3/4	247
18	**CSW18026X30**	**26**	**MXT30**	**3**	**2.875**	**241**
18	CSW18026X35	26	MXT35	3-1/2	3.75	232
18	CSW18026X40	26	MXT40	4	1	238
18	CSW18026X45	26	MXT45	4-1/2	1	233
18	CSW18028X30	28	MXT30	3	2.875	259
18	CSW18028X35	28	MXT35	3-1/2	3.75	250
18	CSW18030X25	30	MXT25	2-1/2	3/4	277
18	CSW18030X30	30	MXT30	3	2.875	277
18	CSW18030X35	30	MXT35	3-1/2	3.75	268
18	CSW18030X40	30	MXT40	4	1	271
18	CSW18030X45	30	MXT45	4-1/2	1	266
18	CSW18032X25	32	MXT25	2-1/2	3/4	292
18	**CSW18032X30**	**32**	**MXT30**	**3**	**2.875**	**295**
18	CSW18032X35	32	MXT35	3-1/2	3.75	286
18	CSW18032X40	32	MXT40	4	1	287
18	CSW18032X45	32	MXT45	4-1/2	1	317
18	CSW18036X25	36	MXT25	2-1/2	3/4	323
18	CSW18036X30	36	MXT30	3	2.875	331
18	CSW18036X35	36	MXT35	3-1/2	3.75	322
18	CSW18036X40	36	MXT40	4	1	320
18	CSW18036X45	36	MXT45	4-1/2	1	315
18	CSW18038X25	38	MXT25	2-1/2	3/4	338
18	**CSW18038X30**	**38**	**MXT30**	**3**	**2.875**	**349**
18	CSW18038X35	38	MXT35	3-1/2	3.75	340
18	**CSW18038X40**	**38**	**MXT40**	**4**	**1**	**337**
18	CSW18038X45	38	MXT45	4-1/2	1	332
18	CSW18038X50	38	MXT50	5	1	353
18	CSW18040X25	40	MXT25	2-1/2	3/4	353
18	CSW18040X30	40	MXT30	3	2.875	367
18	CSW18040X35	40	MXT35	3-1/2	3.75	358
18	CSW18040X40	40	MXT40	4	1	353
18	CSW18040X45	40	MXT45	4-1/2	1	348
18	CSW18044X25	44	MXT25	2-1/2	3/4	384
18	**CSW18044X30**	**44**	**MXT30**	**3**	**2.875**	**403**
18	**CSW18044X35**	**44**	**MXT35**	**3-1/2**	**3.75**	**394**

Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	**CSW18044X40**	**44**	**MXT40**	**4**	**1**	**386**
18	CSW18044X45	44	MXT45	4-1/2	1	381
18	CSW18044X50	44	MXT50	5	1	398
18	CSW18046X25	46	MXT25	2-1/2	3/4	399
18	CSW18046X30	46	MXT30	3	2.875	421
18	CSW18046X35	46	MXT35	3-1/2	3.75	412
18	CSW18046X40	46	MXT40	4	1	403
18	CSW18046X45	46	MXT45	4-1/2	1	398
18	CSW18051X25	51	MXT25	2-1/2	3/4	464
18	CSW18051X30	51	MXT30	3	2.875	473
18	CSW18051X35	51	MXT35	3-1/2	3.75	464
18	**CSW18051X40**	**51**	**MXT40**	**4**	**1**	**456**
18	CSW18051X45	51	MXT45	4-1/2	1	451
18	CSW18051X50	51	MXT50	5	1	479
18	CSW18057X30	57	MXT30	3	2.875	527
18	CSW18057X45	57	MXT45	4-1/2	1	500
18	CSW18063X45	63	MXT45	4-1/2	1	562
18	CSW18063X50	63	MXT50	5	1	597
18	CSW18063X60	63	MXT60	6	1-1/8	644
18	CSW18076X35	76	MXT35	3-1/2	3.75	703
18	CSW18087X40	87	MXT40	4	1	777
20	CSW20012X25	12	MXT25	2-1/2	3/4	112
20	CSW20012X30	12	MXT30	3	2.875	148
20	CSW20012X35	12	MXT35	3-1/2	3.75	139
20	CSW20012X40	12	MXT40	4	1	122
20	CSW20012X45	12	MXT45	4-1/2	1	112
20	CSW20014X25	14	MXT25	2-1/2	3/4	131
20	CSW20014X30	14	MXT30	3	2.875	174
20	CSW20014X35	14	MXT35	3-1/2	3.75	165
20	CSW20014X40	14	MXT40	4	1	144
20	CSW20014X45	14	MXT45	4-1/2	1	133
20	CSW20016X25	16	MXT25	2-1/2	3/4	188
20	CSW20016X30	16	MXT30	3	2.875	190
20	CSW20016X35	16	MXT35	3-1/2	3.75	162
20	CSW20016X40	16	MXT40	4	1	160
20	CSW20016X45	16	MXT45	4-1/2	1	153
20	CSW20018X25	18	MXT25	2-1/2	3/4	204
20	CSW20018X30	18	MXT30	3	2.875	215
20	CSW20018X35	18	MXT35	3-1/2	3.75	204
20	CSW20018X40	18	MXT40	4	1	188
20	CSW20018X45	18	MXT45	4-1/2	1	178
20	CSW20020X25	20	MXT25	2-1/2	3/4	199
20	CSW20020X30	20	MXT30	3	2.875	232
20	CSW20020X35	20	MXT35	3-1/2	3.75	219
20	CSW20020X40	20	MXT40	4	1	203
20	CSW20020X45	20	MXT45	4-1/2	1	200
20	CSW20022X25	22	MXT25	2-1/2	3/4	225
20	CSW20022X30	22	MXT30	3	2.875	249
20	CSW20022X35	22	MXT35	3-1/2	3.75	235
20	CSW20022X40	22	MXT40	4	1	221

* General position for bushing face - for position per application consult Martin.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Standard Duty



SECTION A-A

Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CSW20022X45	22	MXT45	4-1/2	4.75	215
20	CSW20024X25	24	MXT25	2-1/2	2.625	253
20	CSW20024X30	24	MXT30	3	2.875	266
20	CSW20024X35	24	MXT35	3-1/2	3.75	250
20	CSW20024X40	24	MXT40	4	4.125	239
20	CSW20024X45	24	MXT45	4-1/2	4.75	233
20	CSW20026X25	26	MXT25	2-1/2	2.625	270
20	CSW20026X30	26	MXT30	3	2.875	283
20	**CSW20026X35**	**26**	**MXT35**	**3-1/2**	**3.75**	**266**
20	CSW20026X40	26	MXT40	4	4.125	257
20	CSW20026X45	26	MXT45	4-1/2	4.75	251
20	CSW20028X30	28	MXT30	3	2.875	300
20	CSW20028X35	28	MXT35	3-1/2	3.75	282
20	CSW20030X25	30	MXT25	2-1/2	2.625	304
20	CSW20030X30	30	MXT30	3	2.875	317
20	CSW20030X35	30	MXT35	3-1/2	3.75	297
20	CSW20030X40	30	MXT40	4	4.125	294
20	CSW20030X45	30	MXT45	4-1/2	4.75	288
20	CSW20032X25	32	MXT25	2-1/2	2.625	321
20	**CSW20032X30**	**32**	**MXT30**	**3**	**2.875**	**334**
20	**CSW20032X35**	**32**	**MXT35**	**3-1/2**	**3.75**	**313**
20	CSW20032X40	32	MXT40	4	4.125	312
20	CSW20032X45	32	MXT45	4-1/2	4.75	306
20	CSW20036X25	36	MXT25	2-1/2	2.625	356
20	CSW20036X30	36	MXT30	3	2.875	368
20	CSW20036X35	36	MXT35	3-1/2	3.75	344
20	CSW20036X40	36	MXT40	4	4.125	349
20	CSW20036X45	36	MXT45	4-1/2	4.75	343
20	CSW20038X25	38	MXT25	2-1/2	2.625	373
20	CSW20038X30	38	MXT30	3	2.875	385
20	**CSW20038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**360**
20	CSW20038X40	38	MXT40	4	4.125	368
20	CSW20038X45	38	MXT45	4-1/2	4.75	361
20	CSW20038X50	38	MXT50	5	5.25	382
20	CSW20040X25	40	MXT25	2-1/2	2.625	390
20	CSW20040X30	40	MXT30	3	2.875	402
20	CSW20040X35	40	MXT35	3-1/2	3.75	376
20	**CSW20040X40**	**40**	**MXT40**	**4**	**4.125**	**386**
20	CSW20040X45	40	MXT45	4-1/2	4.75	380
20	CSW20044X25	44	MXT25	2-1/2	2.625	424
20	CSW20044X30	44	MXT30	3	2.875	436
20	CSW20044X35	44	MXT35	3-1/2	3.75	407
20	**CSW20044X40**	**44**	**MXT40**	**4**	**4.125**	**423**
20	CSW20044X45	44	MXT45	4-1/2	4.75	417
20	CSW20044X50	44	MXT50	5	5.25	432
20	CSW20044X60	44	MXT60	6	5.75	460
20	CSW20046X25	46	MXT25	2-1/2	2.625	441
20	CSW20046X30	46	MXT30	3	2.875	454
20	CSW20046X35	46	MXT35	3-1/2	3.75	423
20	CSW20046X40	46	MXT40	4	4.125	441
20	CSW20046X45	46	MXT45	4-1/2	4.75	435

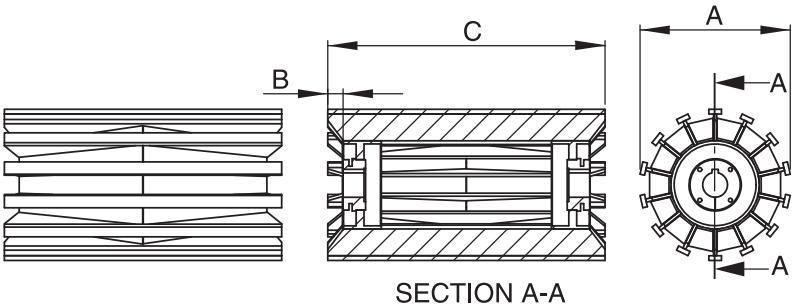
Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CSW20051X25	51	MXT25	2-1/2	2.625	511
20	CSW20051X30	51	MXT30	3	2.875	524
20	CSW20051X35	51	MXT35	3-1/2	3.75	495
20	CSW20051X40	51	MXT40	4	4.125	499
20	**CSW20051X45**	**51**	**MXT45**	**4-1/2**	**4.75**	**493**
20	CSW20051X50	51	MXT50	5	5.25	520
20	CSW20051X60	51	MXT60	6	1-1/8	559
20	CSW20054X25	54	MXT25	2-1/2	2.625	537
20	CSW20054X35	54	MXT35	3-1/2	3.75	518
20	CSW20054X45	54	MXT45	4-1/2	4.75	521
20	CSW20057X25	57	MXT25	2-1/2	2.625	563
20	CSW20057X30	57	MXT30	3	2.875	575
20	CSW20057X35	57	MXT35	3-1/2	3.75	542
20	CSW20057X40	57	MXT40	4	4.125	555
20	CSW20057X45	57	MXT45	4-1/2	4.75	548
20	CSW20057X50	27	MXT50	5	5.25	571
20	CSW20060X25	60	MXT25	2-1/2	2.625	588
20	CSW20060X30	60	MXT30	3	2.875	601
20	CSW20060X35	60	MXT35	3-1/2	3.75	565
20	CSW20060X40	60	MXT40	4	4.125	582
20	CSW20060X45	60	MXT45	4-1/2	4.75	576
20	CSW20063X25	63	MXT25	2-1/2	2.625	641
20	CSW20063X30	63	MXT30	3	2.875	654
20	CSW20063X35	63	MXT35	3-1/2	3.75	622
20	CSW20063X40	63	MXT40	4	4.125	622
20	CSW20063X45	63	MXT45	4-1/2	4.75	615
20	CSW20063X50	63	MXT50	5	5.25	650
20	CSW20066X25	66	MXT25	2-1/2	2.625	667
20	CSW20066X30	66	MXT30	3	2.875	679
20	CSW20066X35	66	MXT35	3-1/2	3.75	645
20	CSW20066X40	66	MXT40	4	4.125	649
20	CSW20066X45	66	MXT45	4-1/2	4.75	643
24	CSW24012X25	12	MXT25	2-1/2	2.625	192
24	CSW24012X30	12	MXT30	3	2.875	185
24	CSW24012X35	12	MXT35	3-1/2	3.75	172
24	CSW24012X40	12	MXT40	4	4.125	159
24	CSW24012X45	12	MXT45	4-1/2	4.75	147
24	CSW24014X25	14	MXT25	2-1/2	2.625	168
24	CSW24014X30	14	MXT30	3	2.875	217
24	CSW24014X35	14	MXT35	3-1/2	3.75	204
24	CSW24014X40	14	MXT40	4	4.125	188
24	CSW24014X45	14	MXT45	4-1/2	4.75	176
24	CSW24016X25	16	MXT25	2-1/2	2.625	201
24	CSW24016X30	16	MXT30	3	2.875	249
24	CSW24016X35	16	MXT35	3-1/2	3.75	236
24	CSW24016X40	16	MXT40	4	4.125	218
24	CSW24016X45	16	MXT45	4-1/2	4.75	206
24	CSW24016X50	16	MXT50	5	5.25	248
24	CSW24018X25	18	MXT25	2-1/2	2.625	256
24	CSW24018X30	18	MXT30	3	2.875	268

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Standard Duty



SECTION A-A

Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CSW24018X35	18	MXT35	3-1/2	3.75	254
24	CSW24018X40	18	MXT40	4	4.125	248
24	CSW24018X45	18	MXT45	4-1/2	4.75	236
24	CSW24018X50	18	MXT50	5	5.25	280
24	CSW24020X25	20	MXT25	2-1/2	2.625	278
24	CSW24020X30	20	MXT30	3	2.875	290
24	CSW24020X35	20	MXT35	3-1/2	3.75	276
24	CSW24020X40	20	MXT40	4	4.125	266
24	CSW24020X45	20	MXT45	4-1/2	4.75	274
24	CSW24020X50	20	MXT50	5	5.25	317
24	CSW24022X25	22	MXT25	2-1/2	2.625	300
24	CSW24022X30	22	MXT30	3	2.875	311
24	CSW24022X35	22	MXT35	3-1/2	3.75	297
24	CSW24022X40	22	MXT40	4	4.125	288
24	CSW24022X45	22	MXT45	4-1/2	4.75	296
24	CSW24022X50	22	MXT50	5	5.25	345
24	CSW24024X25	24	MXT25	2-1/2	2.625	322
24	CSW24024X30	24	MXT30	3	2.875	333
24	CSW24024X35	24	MXT35	3-1/2	3.75	319
24	CSW24024X40	24	MXT40	4	4.125	310
24	CSW24024X45	24	MXT45	4-1/2	4.75	305
24	CSW24024X50	24	MXT50	5	5.25	378
24	CSW24026X25	26	MXT25	2-1/2	2.625	344
24	CSW24026X30	26	MXT30	3	2.875	355
24	CSW24026X35	26	MXT35	3-1/2	3.75	341
24	CSW24026X40	26	MXT40	4	4.125	332
24	CSW24026X45	26	MXT45	4-1/2	4.75	327
24	CSW24026X50	26	MXT50	5	5.25	380
24	CSW24028X30	28	MXT30	3	2.875	377
24	CSW24028X50	28	MXT50	5	5.25	402
24	CSW24030X25	30	MXT25	2-1/2	2.625	388
24	CSW24030X30	30	MXT30	3	2.875	399
24	CSW24030X35	30	MXT35	3-1/2	3.75	385
24	CSW24030X40	30	MXT40	4	4.125	375
24	CSW24030X45	30	MXT45	4-1/2	4.75	370
24	CSW24030X50	30	MXT50	5	5.25	424
24	CSW24032X25	32	MXT25	2-1/2	2.625	410
24	CSW24032X30	32	MXT30	3	2.875	421
24	CSW24032X35	32	MXT35	3-1/2	3.75	407
24	CSW24032X40	32	MXT40	4	4.125	397
24	CSW24032X45	32	MXT45	4-1/2	4.75	392
24	CSW24032X50	32	MXT50	5	5.25	446

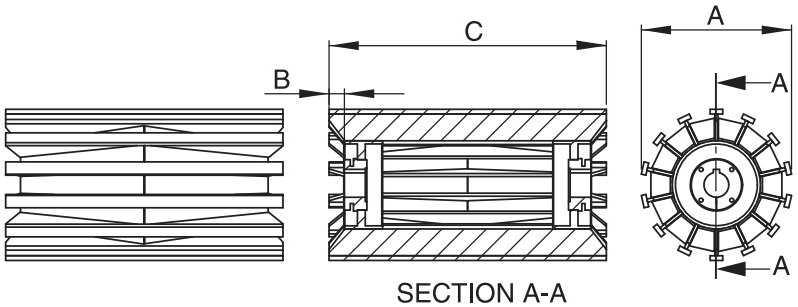
Standard Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CSW24036X25	36	MXT25	2-1/2	2.625	454
24	CSW24036X30	36	MXT30	3	2.875	465
24	CSW24036X35	36	MXT35	3-1/2	3.75	451
24	CSW24036X40	36	MXT40	4	4.125	440
24	CSW24036X45	36	MXT45	4-1/2	4.75	436
24	CSW24036X50	36	MXT50	5	5.25	490
24	CSW24036X60	36	MXT60	6	1-1/8	491
24	CSW24038X25	38	MXT25	2-1/2	2.625	476
24	CSW24038X30	38	MXT30	3	2.875	487
24	CSW24038X35	38	MXT35	3-1/2	3.75	473
24	CSW24038X40	38	MXT40	4	4.125	462
24	CSW24038X45	38	MXT45	4-1/2	4.75	457
24	CSW24038X50	38	MXT50	5	5.25	512
24	CSW24040X25	40	MXT25	2-1/2	2.625	498
24	CSW24040X30	40	MXT30	3	2.875	510
24	CSW24040X35	40	MXT35	3-1/2	3.75	495
24	CSW24040X40	40	MXT40	4	4.125	484
24	CSW24040X45	40	MXT45	4-1/2	4.75	479
24	CSW24040X50	40	MXT50	5	5.25	534
24	CSW24044X25	44	MXT25	2-1/2	2.625	542
24	CSW24044X30	44	MXT30	3	2.875	554
24	CSW24044X35	44	MXT35	3-1/2	3.75	539
24	CSW24044X40	44	MXT40	4	4.125	528
24	CSW24044X45	44	MXT45	4-1/2	4.75	523
24	CSW24044X50	44	MXT50	5	5.25	578
24	CSW24044X70	44	MXT70	7	1-1/2	581
24	CSW24046X25	46	MXT25	2-1/2	2.625	564
24	CSW24046X30	46	MXT30	3	2.875	576
24	CSW24046X35	46	MXT35	3-1/2	3.75	562
24	CSW24046X40	46	MXT40	4	4.125	550
24	CSW24046X45	46	MXT45	4-1/2	4.75	545
24	CSW24051X25	51	MXT25	2-1/2	2.625	652
24	CSW24051X30	51	MXT30	3	2.875	664
24	CSW24051X35	51	MXT35	3-1/2	3.75	650
24	CSW24051X40	51	MXT40	4	4.125	631
24	CSW24051X45	51	MXT45	4-1/2	4.75	621
24	CSW24051X50	51	MXT50	5	5.25	688
24	CSW24051X60	51	MXT60	6	1-1/8	699
24	CSW24054X25	54	MXT25	2-1/2	2.625	685
24	CSW24054X30	54	MXT30	3	2.875	697
24	CSW24054X35	54	MXT35	3-1/2	3.75	683
24	CSW24057X25	57	MXT25	2-1/2	2.625	719

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Standard Duty – M-HE Bushed



SECTION A-A

Standard Duty Wing Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
8	**CSW08020H25**	**20**	**M-HE25**	**2-1/2**	**2.649**	**65**
8	**CSW08026H25**	**26**	**M-HE25**	**2-1/2**	**2.649**	**71**
8	CSW08028H25	28	M-HE25	2-1/2	2.649	76
8	CSW08030H25	30	M-HE25	2-1/2	2.629	81
8	**CSW08032H25**	**32**	**M-HE25**	**2-1/2**	**2.649**	**86**
8	**CSW08038H25**	**38**	**M-HE25**	**2-1/2**	**2.649**	**103**
8	CSW08051H25	51	M-HE25	2-1/2	2.649	138
8	CSW08063H25	63	M-HE25	2-1/2	2.649	171
8	CSW08063H30	63	M-HE30	3	2.932	258
10	**CSW10020H25**	**20**	**M-HE25**	**2-1/2**	**2.649**	**67**
10	**CSW10026H25**	**26**	**M-HE25**	**2-1/2**	**2.649**	**86**
10	CSW10026H30	26	M-HE30	3	2.932	93
10	**CSW10032H25**	**32**	**M-HE25**	**2-1/2**	**2.649**	**105**
10	**CSW10038H25**	**38**	**M-HE25**	**2-1/2**	**2.649**	**127**
10	CSW10038H35	38	M-HE35	3-1/2	3.136	132
10	**CSW10044H25**	**44**	**M-HE25**	**2-1/2**	**2.649**	**146**
10	CSW10044H30	44	M-HE30	3	2.932	148
10	**CSW10051H25**	**51**	**M-HE25**	**2-1/2**	**2.649**	**171**
10	**CSW10051H30**	**51**	**M-HE30**	**3**	**2.932**	**179**
10	CSW10051H35	51	M-HE35	3-1/2	3.136	175
10	CSW10057H30	57	M-HE30	3	2.932	190
10	CSW10057H35	57	M-HE35	3-1/2	3.136	191
10	CSW10063H25	63	M-HE25	2-1/2	2.649	212
10	CSW10063H30	63	M-HE30	3	2.933	213
10	CSW10063H35	63	M-HE35	3-1/2	3.136	215
12	**CSW12020H25**	**20**	**M-HE25**	**2-1/2**	**2.649**	**85**
12	**CSW12026H25**	**26**	**M-HE25**	**2-1/2**	**2.649**	**110**
12	**CSW12026H30**	**26**	**M-HE30**	**3**	**2.932**	**115**
12	CSW12026H35	26	M-HE35	3-1/2	3.136	114
12	CSW12028H25	28	M-HE25	2-1/2	2.649	118
12	**CSW12032H25**	**32**	**M-HE25**	**2-1/2**	**2.649**	**135**
12	**CSW12032H30**	**32**	**M-HE30**	**3**	**2.932**	**137**
12	**CSW12038H25**	**38**	**M-HE25**	**2-1/2**	**2.649**	**160**
12	**CSW12038H30**	**38**	**M-HE30**	**3**	**2.932**	**159**
12	CSW12038H35	38	M-HE35	3-1/2	3.136	158
12	CSW12038H40	38	M-HE40	4	3.261	162
12	**CSW12044H25**	**44**	**M-HE25**	**2-1/2**	**2.649**	**186**
12	**CSW12044H30**	**44**	**M-HE30**	**3**	**2.932**	**181**
12	CSW12044H35	44	M-HE35	3-1/2	3.136	180
12	CSW12044H40	44	M-HE40	4	3.261	181
12	**CSW12051H25**	**51**	**M-HE25**	**2-1/2**	**2.649**	**218**
12	**CSW12051H30**	**51**	**M-HE30**	**3**	**2.932**	**214**
12	**CSW12051H35**	**51**	**M-HE35**	**3-1/2**	**3.136**	**212**
12	CSW12057H35	57	M-HE35	3-1/2	3.136	234
12	**CSW12063H25**	**63**	**M-HE25**	**2-1/2**	**2.649**	**285**
14	**CSW14026H25**	**26**	**M-HE25**	**2-1/2**	**2.649**	**138**
14	**CSW14026H30**	**26**	**M-HE30**	**3**	**2.932**	**141**
14	CSW14026H35	26	M-HE35	3-1/2	3.136	139
14	**CSW14032H25**	**32**	**M-HE25**	**2-1/2**	**2.649**	**170**
14	**CSW14032H30**	**32**	**M-HE30**	**3**	**2.932**	**169**
14	CSW14034H25	34	M-HE25	2-1/2	2.649	181
14	CSW14034H30	34	M-HE30	3	2.932	179
14	CSW14036H30	36	M-HE30	3	2.932	189

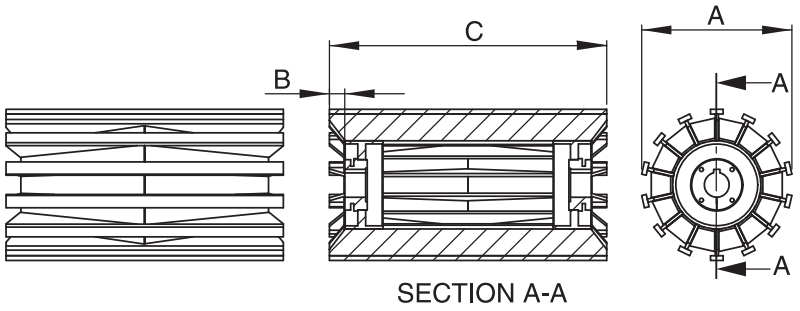
Standard Duty Wing Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	**CSW14038H25**	**38**	**M-HE25**	**2-1/2**	**2.649**	**202**
14	**CSW14038H30**	**38**	**M-HE30**	**3**	**2.932**	**198**
14	CSW14038H40	38	M-HE40	4	3.261	198
14	CSW14038H45	38	M-HE45	4-1/2	3.636	206
14	CSW14038H50	38	M-HE50	5	4.061	231
14	CSW14044H25	44	M-HE25	2-1/2	2.649	235
14	**CSW14044H30**	**44**	**M-HE30**	**3**	**2.932**	**227**
14	CSW14044H40	44	M-HE40	4	3.261	223
14	CSW14046H30	46	M-HE30	3	2.932	236
14	CSW14051H25	51	M-HE25	2-1/2	2.649	275
14	**CSW14051H30**	**51**	**M-HE30**	**3**	**2.932**	**267**
14	CSW14051H40	51	M-HE40	4	3.261	264
14	CSW14051H45	51	M-HE45	4-1/2	3.636	272
14	CSW14054H30	54	M-HE30	3	2.932	282
14	CSW14057H30	57	M-HE30	3	2.932	296
14	CSW14057H35	57	M-HE35	3-1/2	3.136	294
14	CSW14057H40	57	M-HE40	4	3.261	289
14	CSW14063H25	63	M-HE25	2-1/2	2.649	343
14	CSW14063H30	63	M-HE30	3	2.932	331
14	CSW14063H35	63	M-HE35	3-1/2	3.136	329
14	CSW14063H40	63	M-HE40	4	3.261	326
16	CSW16020H25	20	M-HE25	2-1/2	2.649	120
16	CSW16022H30	22	M-HE30	3	2.932	137
16	**CSW16026H25**	**26**	**M-HE25**	**2-1/2**	**2.649**	**156**
16	**CSW16026H30**	**26**	**M-HE30**	**3**	**2.932**	**159**
16	CSW16028H25	28	M-HE25	2-1/2	2.649	169
16	CSW16028H30	28	M-HE30	3	2.932	170
16	CSW16028H35	28	M-HE35	3-1/2	3.136	168
16	**CSW16032H25**	**32**	**M-HE25**	**2-1/2**	**2.649**	**194**
16	**CSW16032H30**	**32**	**M-HE30**	**3**	**2.932**	**200**
16	**CSW16038H25**	**38**	**M-HE25**	**2-1/2**	**2.649**	**231**
16	**CSW16038H30**	**38**	**M-HE30**	**3**	**2.932**	**226**
16	**CSW16038H35**	**38**	**M-HE35**	**3-1/2**	**3.136**	**224**
16	CSW16038H45	38	M-HE45	4-1/2	3.636	233
16	CSW16040H40	40	M-HE40	4	3.261	235
16	CSW16040H45	40	M-HE45	4-1/2	3.636	243
16	CSW16044H25	44	M-HE25	2-1/2	2.649	268
16	**CSW16044H30**	**44**	**M-HE30**	**3**	**2.932**	**260**
16	**CSW16044H35**	**44**	**M-HE35**	**3-1/2**	**3.136**	**257**
16	CSW16044H40	44	M-HE40	4	3.261	255
16	CSW16044H45	44	M-HE45	4-1/2	3.636	263
16	**CSW16051H30**	**51**	**M-HE30**	**3**	**2.932**	**306**
16	**CSW16051H35**	**51**	**M-HE35**	**3-1/2**	**3.136**	**303**
16	CSW16051H40	51	M-HE40	4	3.261	302
16	CSW16051H45	51	M-HE45	4-1/2	3.636	310
16	CSW16057H40	57	M-HE40	4	3.261	332
16	CSW16057H45	57	M-HE45	4-1/2	3.363	340
16	CSW16063H25	63	M-HE25	2-1/2	2.649	392
16	CSW16063H30	63	M-HE30	3	23932	380
16	**CSW16063H35**	**63**	**M-HE35**	**3-1/2**	**3.136**	**378**
16	CSW16063H45	63	M-HE45	4-1/2	3.636	382
16	CSW16063H50	63	M-HE50	5	4.061	424
16	CSW16076H35	76	M-HE35	3-1/2	3.136	457
18	**CSW18026H25**	**26**	**M-HE25**	**2-1/2**	**2.649**	**228**

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Standard Duty Wing – M-HE Bushed



Standard Duty Wing Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CSW18026H40	26	M-HE40	4	3.261	243
18	CSW18028H30	28	M-HE30	3	2.932	260
18	CSW18028H35	28	M-HE35	3-1/2	3.136	257
18	CSW18030H40	30	M-HE40	4	3.261	276
18	CSW18032H25	32	M-HE25	2-1/2	2.649	278
18	**CSW18032H30**	**32**	**M-HE30**	**3**	**2.932**	**296**
18	CSW18032H35	32	M-HE35	3-1/2	3.136	293
18	CSW18038H25	38	M-HE25	2-1/2	2.649	327
18	**CSW18038H30**	**38**	**M-HE30**	**3**	**2.932**	**350**
18	**CSW18038H35**	**38**	**M-HE35**	**3-1/2**	**3.136**	**347**
18	**CSW18038H40**	**38**	**M-HE40**	**4**	**3.261**	**343**
18	CSW18038H45	38	M-HE45	4-1/2	3.636	350
18	CSW18038H50	38	M-HE50	5	4.061	369
18	CSW18040H40	40	M-HE40	4	3.261	359
18	CSW18040H45	40	M-HE45	4-1/2	3.636	367
18	CSW18044H25	44	M-HE25	2-1/2	2.649	377
18	CSW18044H30	44	M-HE30	3	2.932	404
18	CSW18044H35	44	M-HE35	3-1/2	3.136	401
18	**CSW18044H40**	**44**	**M-HE40**	**4**	**3.261**	**392**
18	CSW18044H45	44	M-HE45	4-1/2	3.636	400
18	CSW18044H50	44	M-HE50	5	4.061	414
18	CSW18046H45	46	M-HE45	4-1/2	3.636	417
18	**CSW18051H35**	**51**	**M-HE35**	**3-1/2**	**3.136**	**304**
18	CSW18051H40	51	M-HE40	4	3.261	462
18	CSW18051H50	51	M-HE50	5	4.061	495
18	CSW18057H30	57	M-HE30	3	2.932	528
18	CSW18057H45	57	M-HE45	4-1/2	3.636	520
18	**CSW18063H35**	**63**	**M-HE35**	**3-1/2**	**3.136**	**375**
18	CSW18063H45	63	M-HE45	4-1/2	3.636	581
18	CSW18063H50	63	M-HE50	5	4.312	613
18	CSW18063H60	63	M-HE60	6	4.421	644
18	CSW18076H35	76	M-HE35	3-1/2	3.136	713
18	CSW18087H40	87	M-HE40	4	3.261	783
20	CSW20026H25	26	M-HE25	2-1/2	2.649	251
20	CSW20026H30	26	M-HE30	3	2.932	255
20	CSW20026H40	26	M-HE40	4	3.261	264
20	CSW20028H30	28	M-HE30	3	2.932	272
20	CSW20028H35	28	M-HE35	3-1/2	3.136	270
20	CSW20030H40	30	M-HE40	4	3.261	301
20	CSW20032H25	32	M-HE25	2-1/2	2.649	306
20	**CSW20032H30**	**32**	**M-HE30**	**3**	**2.932**	**305**
20	CSW20038H25	38	M-HE25	2-1/2	2.649	361
20	CSW20038H30	38	M-HE30	3	2.932	356
20	CSW20038H35	38	M-HE35	3-1/2	3.136	354
20	CSW20038H40	38	M-HE40	4	3.261	375
20	CSW20038H45	38	M-HE45	4-1/2	3.636	382
20	CSW20038H50	38	M-HE50	5	4.061	400
20	CSW20040H40	40	M-HE40	4	3.261	393
20	CSW20040H45	40	M-HE45	4-1/2	3.636	401

Standard Duty Wing Pulleys — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CSW20044H30	44	M-HE30	3	2.932	407
20	CSW20044H35	44	M-HE35	3-1/2	3.136	405
20	CSW20044H40	44	M-HE40	4	3.261	430
20	CSW20044H50	44	M-HE50	5	4.061	451
20	CSW20044H60	44	M-HE60	6	4.421	460
20	CSW20046H45	46	M-HE45	4-1/2	3.363	456
20	**CSW20051H35**	**51**	**M-HE35**	**3-1/2**	**3.136**	**482**
20	CSW20051H40	51	M-HE40	4	3.261	506
20	CSW20051H50	51	M-HE50	5	4.061	538
20	CSW20051H60	51	M-HE60	6	4.421	558
20	CSW20057H30	57	M-HE30	3	2.932	535
20	CSW20057H40	57	M-HE40	4	3.261	562
20	CSW20057H45	57	M-HE45	4-1/2	3.636	570
20	CSW20057H50	57	M-HE50	5	4.061	589
20	CSW20063H45	63	M-HE45	4-1/2	3.636	637
20	CSW20063H50	63	M-HE50	5	4.061	667
24	CSW24026H30	26	M-HE30	3	2.932	335
24	CSW24028H30	28	M-HE30	3	2.932	358
24	CSW24028H50	28	M-HE50	5	4.061	382
24	CSW24032H30	32	M-HE30	3	2.932	405
24	CSW24036H60	36	M-HE60	6	4.421	491
24	CSW24038H30	38	M-HE30	3	2.932	475
24	CSW24038H35	38	M-HE35	3-1/2	9.136	473
24	CSW24038H40	38	M-HE40	4	3.261	471
24	CSW24038H45	38	M-HE45	4-1/2	3.636	471
24	CSW24038H50	38	M-HE50	5	4.061	491
24	CSW24040H40	40	M-HE40	4	3.261	493
24	CSW24040H45	40	M-HE45	4-1/2	3.636	501
24	CSW24044H35	44	M-HE35	3-1/2	3.136	497
24	CSW24044H40	44	M-HE40	4	3.261	493
24	CSW24044H50	44	M-HE50	5	4.061	513
24	CSW24044H70	44	M-HE70	7	4.954	580
24	CSW24046H45	46	M-HE45	4-1/2	3.636	566
24	**CSW24051H40**	**51**	**M-HE40**	**4**	**3.261**	**657**
24	CSW24051H45	51	M-HE45	4-1/2	3.636	648
24	CSW24051H50	51	M-HE50	5	4.061	660
24	CSW24051H60	51	M-HE60	6	4.421	699
24	CSW24057H45	57	M-HE45	4-1/2	3.636	719
24	CSW24057H50	57	M-HE50	5	4.061	726
24	CSW24063H45	63	M-HE45	4-1/2	3.636	806
24	CSW24063H50	63	M-HE50	5	4.061	818
24	CSW24063H60	63	M-HE60	6	4.421	875
30	CSW30044H50	44	M-HE50	5	4.061	708
30	**CSW30051H40**	**51**	**M-HE40**	**4**	**3.261**	**1018**
30	CSW30051H45	51	M-HE45	4-1/2	3.636	837
30	CSW30051H50	51	M-HE50	5	4.061	849
30	CSW30057H50	57	M-HE50	5	4.061	932
30	CSW30057H60	57	M-HE60	6	4.421	921
30	CSW30057H70	57	M-HE70	7	4.954	987

* General position for bushing face - for position per application consult Martin.

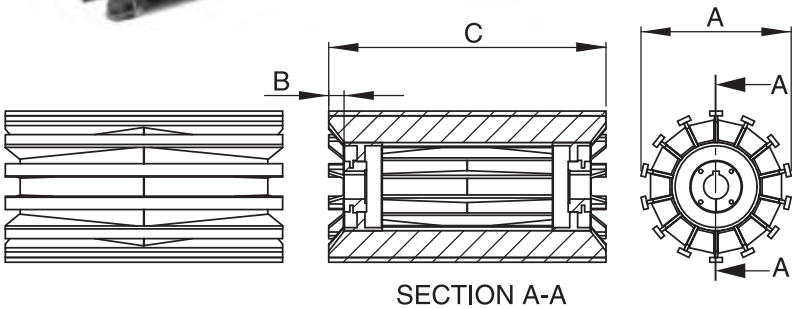
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Mine Duty

Mine Duty Wing Pulleys



Martin 's Mine Duty Wing Pulleys are constructed from extremely heavy materials and are recognized in the industry as the most aggressive 'Mine Duty' stock pulley on the shelf. All Martin wing pulleys utilize the unique 'end-pipe' design, which offers ultimate protection against wing folding and hub-weld fatigue. Our minimum 5/8" thick contact bar yields additional life in abrasive applications where our competitors thinner bar does not. Additionally, our 3/8" thick wing and 1/4" gussets offer greater structural support in aggressive applications.



SECTION A-A

FEATURES:

- Available in 8" thru 60" Diameter
- Minimum 5/8" x 1-1/2" Contact Bars
- Minimum 3/8" Thick Wings
- Minimum 1/4" Gussets
- Features Unique Martin 'End Pipe' design
  - Better Protection Against Wing Folding
  - Better Protection Against Hub-Weld Fatigue
- Several Hub/Bushing Systems Available

Mine Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
8	CMW08012X25	12	MXT25	2-1/2	2.625	55
8	CMW08014X25	14	MXT25	2-1/2	2.625	62
8	CMW08016X25	16	MXT25	2-1/2	2.625	72
8	CMW08018X25	18	MXT25	2-1/2	2.625	81
8	CMW08020X25	20	MXT25	2-1/2	2.625	90
8	CMW08022X25	22	MXT25	2-1/2	2.625	99
8	CMW08024X25	24	MXT25	2-1/2	2.625	108
8	CMW08026X25	26	MXT25	2-1/2	2.625	116
8	CMW08030X25	30	MXT25	2-1/2	2.625	134
8	CMW08032X25	32	MXT25	2-1/2	2.625	143
8	CMW08044X25	44	MXT25	2-1/2	2.625	198
10	CMW10012X25	12	MXT25	2-1/2	2.625	63
10	CMW10012X30	12	MXT30	3	2.875	73
10	CMW10014X25	14	MXT25	2-1/2	2.625	72
10	CMW10014X30	14	MXT30	3	2.875	77
10	CMW10016X25	16	MXT25	2-1/2	2.625	84
10	CMW10016X30	16	MXT30	3	2.875	90
10	CMW10018X25	18	MXT25	2-1/2	2.625	95
10	CMW10018X30	18	MXT30	3	2.875	102
10	CMW10020X25	20	MXT25	2-1/2	2.625	106
10	CMW10020X30	20	MXT30	3	2.875	112
10	CMW10022X25	22	MXT25	2-1/2	2.625	116
10	CMW10022X30	22	MXT30	3	2.875	122
10	CMW10024X25	24	MXT25	2-1/2	2.625	127
10	CMW10024X30	24	MXT30	3	2.875	131
10	CMW10026X25	26	MXT25	2-1/2	2.625	137
10	CMW10026X30	26	MXT30	3	2.875	141
10	CMW10030X25	30	MXT25	2-1/2	2.625	159
10	CMW10030X30	30	MXT30	3	2.875	160
10	CMW10032X25	32	MXT25	2-1/2	2.625	169
10	CMW10032X30	32	MXT30	3	2.875	170
10	CMW10036X25	36	MXT25	2-1/2	2.625	191
10	CMW10036X30	36	MXT30	3	2.875	189
10	CMW10038X25	38	MXT25	2-1/2	2.625	204
10	CMW10038X30	38	MXT30	3	2.875	206
10	CMW10044X25	44	MXT25	2-1/2	2.625	236
10	CMW10044X30	44	MXT30	3	2.875	235
10	CMW10051X25	51	MXT25	2-1/2	2.625	277

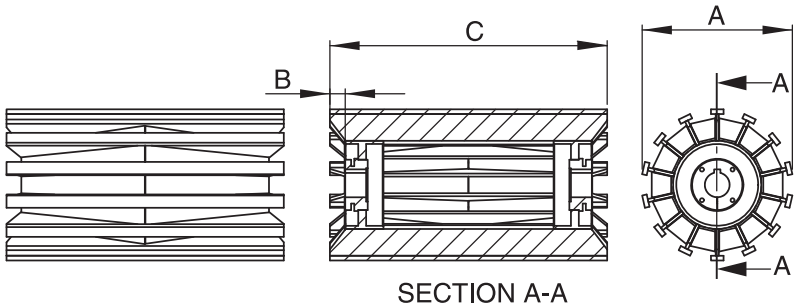
Mine Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
10	CMW10063X30	63	MXT30	3	2.875	340
12	CMW12012X25	12	MXT25	2-1/2	2.625	78
12	CMW12012X30	12	MXT30	3	2.875	88
12	CMW12012X35	12	MXT35	3-1/2	3.75	82
12	CMW12014X25	14	MXT25	2-1/2	2.625	91
12	CMW12014X30	14	MXT30	3	2.875	95
12	CMW12014X35	14	MXT35	3-1/2	3.75	85
12	CMW12016X25	16	MXT25	2-1/2	2.625	106
12	CMW12016X30	16	MXT30	3	2.875	110
12	CMW12016X35	16	MXT35	3-1/2	3.75	100
12	CMW12018X25	18	MXT25	2-1/2	2.625	120
12	CMW12018X30	18	MXT30	3	2.875	125
12	CMW12018X35	18	MXT35	3-1/2	3.75	116
12	CMW12020X25	20	MXT25	2-1/2	2.625	134
12	CMW12020X30	20	MXT30	3	2.875	138
12	CMW12020X35	20	MXT35	3-1/2	3.75	132
12	CMW12022X25	22	MXT25	2-1/2	2.625	148
12	CMW12022X30	22	MXT30	3	2.875	150
12	CMW12022X35	22	MXT35	3-1/2	3.75	144
12	CMW12024X25	24	MXT25	2-1/2	2.625	162
12	CMW12024X30	24	MXT30	3	2.875	163
12	CMW12024X35	24	MXT35	3-1/2	3.75	157
12	CMW12026X25	26	MXT25	2-1/2	2.625	176
12	**CMW12026X30**	**26**	**MXT30**	**3**	**2.875**	**175**
12	CMW12026X35	26	MXT35	3-1/2	3.75	169
12	CMW12030X25	30	MXT25	2-1/2	2.625	204
12	CMW12030X30	30	MXT30	3	2.875	200
12	CMW12030X35	30	MXT35	3-1/2	3.75	194
12	**CMW12032X25**	**32**	**MXT25**	**2-1/2**	**2.625**	**218**
12	**CMW12032X30**	**32**	**MXT30**	**3**	**2.875**	**213**
12	CMW12032X35	32	MXT35	3-1/2	3.75	207
12	CMW12036X25	36	MXT25	2-1/2	2.625	246
12	CMW12036X30	36	MXT30	3	2.875	238
12	CMW12036X35	36	MXT35	3-1/2	3.75	231
12	CMW12038X25	38	MXT25	2-1/2	2.625	260
12	**CMW12038X30**	**38**	**MXT30**	**3**	**2.875**	**250**
12	CMW12038X35	38	MXT35	3-1/2	3.75	244
12	CMW12040X25	40	MXT25	2-1/2	2.625	274

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Mine Duty



Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	CMW12040X30	40	MXT30	3	2.875	263
12	CMW12040X35	44	MXT35	3-1/2	3.75	256
12	CMW12044X25	44	MXT25	2-1/2	2.625	302
12	**CMW12044X30**	**44**	**MXT30**	**3**	**2.875**	**288**
12	CMW12044X35	44	MXT35	3-1/2	3.75	281
12	CMW12051X25	51	MXT25	2-1/2	2.625	354
12	CMW12051X30	51	MXT30	3	2.875	338
12	CMW12051X35	51	MXT35	3-1/2	3.75	332
12	CMW12051X40	51	MXT40	4	4.125	330
12	CMW12063X30	63	MXT30	3	2.875	420
14	CMW14012X25	63	MXT25	2-1/2	2.625	96
14	CMW14012X30	12	MXT30	3	2.875	104
14	CMW14012X35	12	MXT35	3-1/2	3.75	96
14	CMW14012X40	12	MXT40	4	4.125	111
14	CMW14014X25	14	MXT25	2-1/2	2.625	112
14	CMW14014X30	14	MXT30	3	2.875	114
14	CMW14014X35	14	MXT35	3-1/2	3.75	102
14	CMW14014X40	14	MXT40	4	4.125	111
14	CMW14016X25	16	MXT25	2-1/2	2.625	131
14	CMW14016X30	16	MXT30	3	2.875	133
14	CMW14016X35	16	MXT35	3-1/2	3.75	121
14	CMW14016X40	16	MXT40	4	4.125	130
14	CMW14018X25	18	MXT25	2-1/2	2.625	148
14	CMW14018X30	18	MXT30	3	2.875	152
14	CMW14018X35	18	MXT35	3-1/2	3.75	140
14	CMW14018X40	18	MXT40	4	4.125	149
14	CMW14020X25	20	MXT25	2-1/2	2.625	166
14	CMW14020X30	20	MXT30	3	2.875	167
14	CMW14020X35	20	MXT35	3-1/2	3.75	159
14	CMW14020X40	20	MXT40	4	4.125	168
14	CMW14022X25	22	MXT25	2-1/2	2.625	184
14	CMW14022X30	22	MXT30	3	2.875	183
14	CMW14022X35	22	MXT35	3-1/2	3.75	175
14	CMW14022X40	22	MXT40	4	4.125	186
14	CMW14024X25	24	MXT25	2-1/2	2.625	201
14	CMW14024X30	24	MXT30	3	2.875	199
14	CMW14024X35	24	MXT35	3-1/2	3.75	191
14	CMW14024X40	24	MXT40	4	4.125	197
14	CMW14026X25	26	MXT25	2-1/2	2.625	219
14	**CMW14026X30**	**26**	**MXT30**	**3**	**2.875**	**215**
14	**CMW14026X35**	**26**	**MXT35**	**3-1/2**	**3.75**	**207**
14	CMW14026X40	26	MXT40	4	4.125	211
14	CMW14030X25	30	MXT25	2-1/2	2.625	255
14	CMW14030X30	30	MXT30	3	2.875	248
14	CMW14030X35	30	MXT35	3-1/2	3.75	239
14	CMW14030X40	30	MXT40	4	4.125	240
14	CMW14032X25	32	MXT25	2-1/2	2.625	272
14	**CMW14032X30**	**32**	**MXT30**	**3**	**2.875**	**264**
14	CMW14032X35	32	MXT35	3-1/2	3.75	255
14	CMW14032X40	32	MXT40	4	4.125	254
14	CMW14036X25	36	MXT25	2-1/2	2.625	308
14	CMW14036X30	36	MXT30	3	2.875	296
14	CMW14036X35	36	MXT35	3-1/2	3.75	287

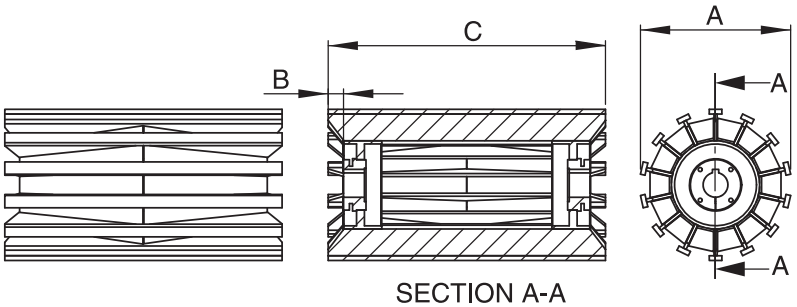
Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
14	CMW14036X40	36	MXT40	4	4.125	283
14	CMW14038X25	38	MXT25	2-1/2	2.625	326
14	**CMW14038X30**	**38**	**MXT30**	**3**	**2.875**	**312**
14	**CMW14038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**303**
14	CMW14038X40	38	MXT40	4	4.125	297
14	CMW14040X25	40	MXT25	2-1/2	2.625	343
14	CMW14040X30	40	MXT30	3	2.875	328
14	CMW14040X35	40	MXT35	3-1/2	3.75	319
14	CMW14040X40	40	MXT40	4	4.125	311
14	CMW14044X25	44	MXT25	2-1/2	2.625	379
14	CMW14044X30	44	MXT30	3	2.875	360
14	CMW14044X35	44	MXT35	3-1/2	3.75	351
14	CMW14044X40	44	MXT40	4	4.125	340
14	CMW14046X25	46	MXT25	2-1/2	2.625	397
14	CMW14046X30	46	MXT30	3	2.875	376
14	CMW14046X35	46	MXT35	3-1/2	3.75	368
14	CMW14046X40	46	MXT40	4	4.125	354
14	CMW14051X25	51	MXT25	2-1/2	2.625	444
14	CMW14051X30	51	MXT30	3	2.875	423
14	CMW14051X35	51	MXT35	3-1/2	3.75	414
14	CMW14051X40	51	MXT40	4	4.125	402
14	CMW14063X25	63	MXT25	2-1/2	2.625	554
16	CMW16012X25	12	MXT25	2-1/2	2.625	109
16	CMW16012X30	12	MXT30	3	2.875	116
16	CMW16012X35	12	MXT35	3-1/2	3.75	107
16	CMW16012X40	12	MXT40	4	4.125	120
16	CMW16014X25	14	MXT25	2-1/2	2.625	127
16	CMW16014X30	14	MXT30	3	2.875	128
16	CMW16014X35	14	MXT35	3-1/2	3.75	115
16	CMW16014X40	14	MXT40	4	4.125	122
16	CMW16016X25	16	MXT25	2-1/2	2.625	148
16	CMW16016X30	16	MXT30	3	2.875	149
16	CMW16016X35	16	MXT35	3-1/2	3.75	136
16	CMW16016X40	16	MXT40	4	4.125	143
16	CMW16018X25	18	MXT25	2-1/2	2.625	168
16	CMW16018X30	18	MXT30	3	2.875	170
16	CMW16018X35	18	MXT35	3-1/2	3.75	157
16	CMW16018X40	18	MXT40	4	4.125	164
16	CMW16020X25	20	MXT25	2-1/2	2.625	188
16	CMW16020X30	20	MXT30	3	2.875	188
16	CMW16020X35	20	MXT35	3-1/2	3.75	179
16	CMW16020X40	20	MXT40	4	4.125	185
16	CMW16022X25	22	MXT25	2-1/2	2.625	208
16	CMW16022X30	22	MXT30	3	2.875	207
16	CMW16022X35	22	MXT35	3-1/2	3.75	197
16	CMW16022X40	22	MXT40	4	4.125	207
16	CMW16024X25	24	MXT25	2-1/2	2.625	228
16	CMW16024X30	24	MXT30	3	2.875	225
16	CMW16024X35	24	MXT35	3-1/2	3.75	215
16	CMW16024X40	24	MXT40	4	4.125	219
16	CMW16026X25	26	MXT25	2-1/2	2.625	248
16	**CMW16026X30**	**26**	**MXT30**	**3**	**2.875**	**244**
16	**CMW16026X35**	**26**	**MXT35**	**3-1/2**	**3.75**	**234**

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Mine Duty



Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	CMW16026X40	26	MXT40	4	4.125	236
16	CMW16030X25	30	MXT25	2-1/2	2.625	288
16	CMW16030X30	30	MXT30	3	2.875	281
16	CMW16030X35	30	MXT35	3-1/2	3.75	271
16	CMW16030X40	30	MXT40	4	4.125	270
16	**CMW16032X35**	**32**	**MXT35**	**3-1/2**	**2.875**	**289**
16	CMW16036X25	36	MXT25	2-1/2	2.625	349
16	CMW16036X30	36	MXT30	3	2.875	336
16	CMW16036X35	36	MXT35	3-1/2	3.75	326
16	CMW16036X40	36	MXT40	4	4.125	320
16	CMW16038X25	38	MXT25	2-1/2	2.625	370
16	**CMW16038X30**	**38**	**MXT30**	**3**	**2.875**	**355**
16	**CMW16038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**345**
16	**CMW16038X40**	**38**	**MXT40**	**4**	**4.125**	**337**
16	CMW16040X25	40	MXT25	2-1/2	2.625	390
16	CMW16040X30	40	MXT30	3	2.875	374
16	CMW16040X35	40	MXT35	3-1/2	3.75	364
16	CMW16040X40	40	MXT40	4	4.125	354
16	CMW16044X25	44	MXT25	2-1/2	2.625	430
16	CMW16044X30	44	MXT30	3	2.875	411
16	**CMW16044X35**	**44**	**MXT35**	**3-1/2**	**3.75**	**401**
16	CMW16044X40	44	MXT40	4	4.125	388
16	CMW16046X25	46	MXT25	2-1/2	2.625	451
16	CMW16046X30	46	MXT30	3	2.875	429
16	CMW16046X35	46	MXT35	3-1/2	3.75	419
16	CMW16046X40	46	MXT40	4	4.125	405
16	CMW16051X25	51	MXT25	2-1/2	2.625	506
16	CMW16051X30	51	MXT30	3	2.875	483
16	CMW16051X35	51	MXT35	3-1/2	3.75	472
16	**CMW16051X40**	**51**	**MXT40**	**4**	**4.125**	**458**
16	CMW16063X25	63	MXT25	2-1/2	2.625	630
18	CMW18012X25	12	MXT25	2-1/2	2.625	165
18	CMW18012X30	12	MXT30	3	2.875	140
18	CMW18012X35	12	MXT35	3-1/2	3.75	121
18	CMW18012X40	12	MXT40	4	4.125	130
18	CMW18012X45	12	MXT45	4-1/2	4.75	120
18	CMW18014X25	14	MXT25	2-1/2	2.625	142
18	CMW18014X30	14	MXT30	3	2.875	166
18	CMW18014X35	14	MXT35	3-1/2	3.75	151
18	CMW18014X40	14	MXT40	4	4.125	155
18	CMW18014X45	14	MXT45	4-1/2	4.75	145
18	CMW18016X25	16	MXT25	2-1/2	2.625	168
18	CMW18016X30	16	MXT30	3	2.875	190
18	CMW18016X35	16	MXT35	3-1/2	3.75	178
18	CMW18016X40	16	MXT40	4	4.125	181
18	CMW18016X45	16	MXT45	4-1/2	4.75	171
18	CMW18018X25	18	MXT25	2-1/2	2.625	223
18	CMW18018X30	18	MXT30	3	2.875	214
18	CMW18018X35	18	MXT35	3-1/2	3.75	195
18	CMW18018X40	18	MXT40	4	4.125	207
18	CMW18018X45	18	MXT45	4-1/2	4.75	197
18	CMW18020X25	20	MXT25	2-1/2	2.625	226
18	CMW18020X30	20	MXT30	3	2.875	238

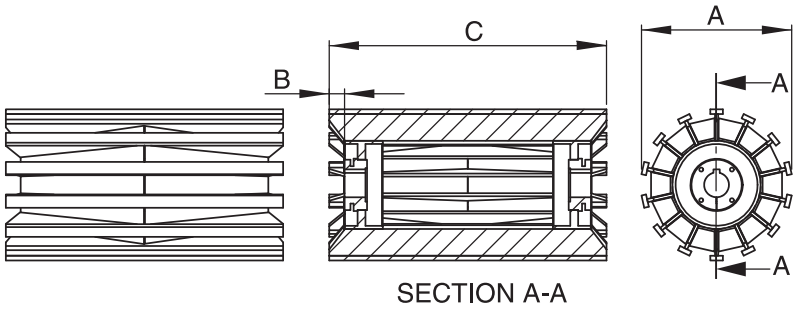
Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CMW18020X35	20	MXT35	3-1/2	3.75	224
18	CMW18020X40	20	MXT40	4	4.125	234
18	CMW18020X45	20	MXT45	4-1/2	4.75	223
18	CMW18022X25	22	MXT25	2-1/2	2.625	265
18	CMW18022X30	22	MXT30	3	2.875	262
18	CMW18022X35	22	MXT35	3-1/2	3.75	250
18	CMW18022X40	22	MXT40	4	4.125	250
18	CMW18022X45	22	MXT45	4-1/2	4.75	242
18	CMW18024X25	24	MXT25	2-1/2	2.625	286
18	CMW18024X30	24	MXT30	3	2.875	286
18	CMW18024X35	24	MXT35	3-1/2	3.75	274
18	CMW18024X40	24	MXT40	4	4.125	272
18	CMW18024X45	24	MXT45	4-1/2	4.75	264
18	CMW18026X25	26	MXT25	2-1/2	2.625	307
18	**CMW18026X30**	**26**	**MXT30**	**3**	**2.875**	**311**
18	CMW18026X35	26	MXT35	3-1/2	3.75	298
18	CMW18026X40	26	MXT40	4	4.125	294
18	CMW18026X45	26	MXT45	4-1/2	4.75	286
18	CMW18030X25	30	MXT25	2-1/2	2.625	347
18	CMW18030X30	30	MXT30	3	2.875	359
18	CMW18030X35	30	MXT35	3-1/2	3.75	346
18	CMW18030X40	30	MXT40	4	4.125	338
18	CMW18030X45	30	MXT45	4-1/2	4.75	330
18	CMW18032X25	32	MXT25	2-1/2	2.625	367
18	**CMW18032X30**	**32**	**MXT30**	**3**	**2.875**	**384**
18	**CMW18032X35**	**32**	**MXT35**	**3-1/2**	**3.75**	**370**
18	CMW18032X40	32	MXT40	4	4.125	361
18	CMW18032X45	32	MXT45	4-1/2	4.75	352
18	CMW18036X25	36	MXT25	2-1/2	2.625	408
18	CMW18036X30	36	MXT30	3	2.875	432
18	CMW18036X35	36	MXT35	3-1/2	3.75	419
18	CMW18036X40	36	MXT40	4	4.125	405
18	CMW18036X45	36	MXT45	4-1/2	4.75	397
18	CMW18038X25	38	MXT25	2-1/2	2.625	428
18	**CMW18038X30**	**38**	**MXT30**	**3**	**2.875**	**457**
18	**CMW18038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**427**
18	**CMW18038X40**	**38**	**MXT40**	**4**	**4.125**	**427**
18	CMW18038X45	38	MXT45	4-1/2	4.75	419
18	CMW18040X25	40	MXT25	2-1/2	2.625	449
18	CMW18040X30	40	MXT30	3	2.875	481
18	CMW18040X35	40	MXT35	3-1/2	3.75	468
18	CMW18040X40	40	MXT40	4	4.125	449
18	CMW18044X25	44	MXT25	2-1/2	2.625	489
18	CMW18044X30	44	MXT30	3	2.875	530
18	**CMW18044X35**	**44**	**MXT35**	**3-1/2**	**3.75**	**517**
18	**CMW18044X40**	**44**	**MXT40**	**4**	**4.125**	**494**
18	CMW18044X45	44	MXT45	4-1/2	4.75	486
18	CMW18046X25	46	MXT25	2-1/2	2.625	510
18	CMW18046X30	46	MXT30	3	2.875	554
18	CMW18046X35	46	MXT35	3-1/2	3.75	541
18	CMW18046X40	46	MXT40	4	4.125	516
18	CMW18046X45	46	MXT45	4-1/2	4.75	508
18	CMW18051X25	51	MXT25	2-1/2	2.625	588

* General position for bushing face - for position per application consult Martin.

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Wing Pulleys — Mine Duty



Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CMW18051X30	51	MXT30	3	2.875	622
18	CMW18051X35	51	MXT35	3-1/2	3.75	609
18	**CMW18051X40**	**51**	**MXT40**	**4**	**4.125**	**583**
18	**CMW18051X45**	**51**	**MXT45**	**4-1/2**	**4.75**	**575**
18	CMW18054X25	54	MXT25	2-1/2	2.625	618
18	CMW18054X30	54	MXT30	3	2.875	659
18	CMW18063X25	63	MXT25	2-1/2	2.625	737
18	CMW18063X30	63	MXT30	3	2.875	775
20	CMW20012X25	12	MXT25	2-1/2	2.625	182
20	CMW20012X30	12	MXT30	3	2.875	179
20	CMW20012X35	12	MXT35	3-1/2	3.75	161
20	CMW20012X40	12	MXT40	4	4.125	145
20	CMW20012X45	12	MXT45	4-1/2	4.75	132
20	CMW20014X25	14	MXT25	2-1/2	2.625	158
20	CMW20014X30	14	MXT30	3	2.875	210
20	CMW20014X35	14	MXT35	3-1/2	3.75	192
20	CMW20014X40	14	MXT40	4	4.125	172
20	CMW20014X45	14	MXT45	4-1/2	4.75	159
20	CMW20016X25	16	MXT25	2-1/2	2.625	190
20	CMW20016X30	16	MXT30	3	2.875	242
20	CMW20016X35	16	MXT35	3-1/2	3.75	224
20	CMW20016X40	16	MXT40	4	4.125	201
20	CMW20016X45	16	MXT45	4-1/2	4.75	187
20	CMW20018X25	18	MXT25	2-1/2	2.625	250
20	CMW20018X30	18	MXT30	3	2.875	263
20	CMW20018X35	18	MXT35	3-1/2	3.75	241
20	CMW20018X40	18	MXT40	4	4.125	229
20	CMW20018X45	18	MXT45	4-1/2	4.75	215
20	CMW20020X25	20	MXT25	2-1/2	2.625	253
20	CMW20020X30	20	MXT30	3	2.875	286
20	CMW20020X35	20	MXT35	3-1/2	3.75	262
20	CMW20020X40	20	MXT40	4	4.125	250
20	CMW20020X45	20	MXT45	4-1/2	4.75	244
20	CMW20022X25	22	MXT25	2-1/2	2.625	285
20	CMW20022X30	22	MXT30	3	2.875	309
20	CMW20022X35	22	MXT35	3-1/2	3.75	284
20	CMW20022X40	22	MXT40	4	4.125	275
20	CMW20022X45	22	MXT45	4-1/2	4.75	266
20	CMW20024X25	24	MXT25	2-1/2	2.625	319
20	CMW20024X30	24	MXT30	3	2.875	332
20	CMW20024X35	24	MXT35	3-1/2	3.75	305
20	CMW20024X40	24	MXT40	4	4.125	300
20	CMW20024X45	24	MXT45	4-1/2	4.75	290
20	CMW20026X25	26	MXT25	2-1/2	2.625	343
20	CMW20026X30	26	MXT30	3	2.875	356
20	CMW20026X35	26	MXT35	3-1/2	3.75	326
20	CMW20026X40	26	MXT40	4	4.125	325
20	CMW20026X45	26	MXT45	4-1/2	4.75	315
20	CMW20030X25	30	MXT25	2-1/2	2.625	389
20	CMW20030X30	30	MXT30	3	2.875	402
20	CMW20030X35	30	MXT35	3-1/2	3.75	368
20	CMW20030X40	30	MXT40	4	4.125	375
20	CMW20030X45	30	MXT45	4-1/2	4.75	365

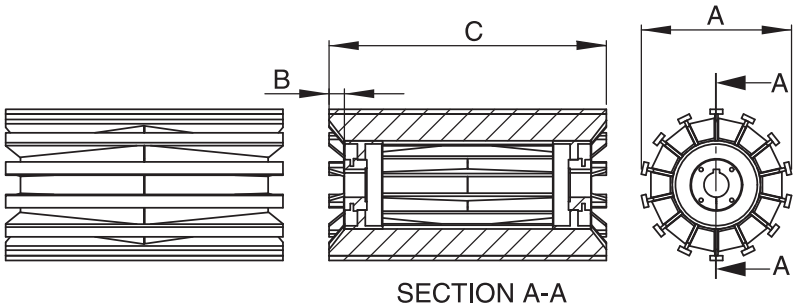
Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CMW20032X25	32	MXT25	2-1/2	2.625	412
20	**CMW20032X30**	**32**	**MXT30**	**3**	**2.875**	**425**
20	**CMW20032X35**	**32**	**MXT35**	**3-1/2**	**3.75**	**389**
20	CMW20032X40	32	MXT40	4	4.125	400
20	CMW20032X45	32	MXT45	4-1/2	4.75	390
20	CMW20036X25	36	MXT25	2-1/2	2.625	459
20	CMW20036X30	36	MXT30	3	2.875	472
20	CMW20036X35	36	MXT35	3-1/2	3.75	432
20	CMW20036X40	36	MXT40	4	4.125	450
20	CMW20036X45	36	MXT45	4-1/2	4.75	440
20	CMW20038X25	38	MXT25	2-1/2	2.625	482
20	CMW20038X30	38	MXT30	3	2.875	495
20	CMW20038X35	38	MXT35	3-1/2	3.75	453
20	**CMW20038X40**	**38**	**MXT40**	**4**	**4.125**	**475**
20	CMW20038X45	38	MXT45	4-1/2	4.75	465
20	CMW20040X25	40	MXT25	2-1/2	2.625	505
20	CMW20040X30	40	MXT30	3	2.875	518
20	CMW20040X35	40	MXT35	3-1/2	3.75	474
20	CMW20040X40	40	MXT40	4	4.125	500
20	CMW20040X45	40	MXT45	4-1/2	4.75	490
20	CMW20044X25	44	MXT25	2-1/2	2.625	552
20	CMW20044X30	44	MXT30	3	2.875	565
20	CMW20044X35	44	MXT35	3-1/2	3.75	517
20	**CMW20044X40**	**44**	**MXT40**	**4**	**4.125**	**551**
20	CMW20044X45	44	MXT45	4-1/2	4.75	541
20	CMW20046X25	46	MXT25	2-1/2	2.625	575
20	CMW20046X30	46	MXT30	3	2.875	588
20	CMW20046X35	46	MXT35	3-1/2	3.75	538
20	CMW20046X40	46	MXT40	4	4.125	576
20	CMW20046X45	46	MXT45	4-1/2	4.75	566
20	CMW20051X25	51	MXT25	2-1/2	2.625	661
20	CMW20051X30	51	MXT30	3	2.875	674
20	CMW20051X35	51	MXT35	3-1/2	3.75	624
20	CMW20051X40	51	MXT40	4	4.125	650
20	**CMW20051X45**	**51**	**MXT45**	**4-1/2**	**4.75**	**641**
20	CMW20054X25	54	MXT25	2-1/2	2.625	695
20	CMW20054X30	54	MXT30	3	2.875	709
20	CMW20054X35	54	MXT35	3-1/2	3.75	655
20	CMW20054X40	54	MXT40	4	4.125	688
20	CMW20054X45	54	MXT45	4-1/2	4.75	678
20	CMW20057X25	57	MXT25	2-1/2	2.625	730
20	CMW20057X30	57	MXT30	3	2.875	754
20	CMW20057X35	57	MXT35	3-1/2	3.75	687
20	CMW20057X40	57	MXT40	4	4.125	726
20	**CMW20057X45**	**57**	**MXT45**	**4-1/2**	**4.75**	**716**
20	CMW20060X25	60	MXT25	2-1/2	2.625	765
20	CMW20060X30	60	MXT30	3	2.875	779
20	CMW20060X35	60	MXT35	3-1/2	3.75	719
20	CMW20060X40	60	MXT40	4	4.125	764
20	CMW20060X45	60	MXT45	4-1/2	4.75	754
20	CMW20063X25	63	MXT25	2-1/2	2.625	828
20	CMW20063X30	63	MXT30	3	2.875	841
20	CMW20063X35	63	MXT35	3-1/2	3.75	784

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Mine Duty



Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CMW20063X40	63	MXT40	4	4.125	813
20	CMW20063X45	63	MXT45	4-1/2	4.75	804
20	CMW20066X25	66	MXT25	2-1/2	2.625	863
20	CMW20066X30	66	MXT30	3	2.875	876
20	CMW20066X35	66	MXT35	3-1/2	3.75	815
20	CMW20066X40	66	MXT40	4	4.125	851
20	CMW20066X45	66	MXT45	4-1/2	4.75	841
24	CMW24012X25	12	MXT25	2-1/2	2.625	235
24	CMW24012X30	12	MXT30	3	2.875	229
24	CMW24012X35	12	MXT35	3-1/2	3.75	209
24	CMW24012X40	12	MXT40	4	4.125	190
24	CMW24012X45	12	MXT45	4-1/2	4.75	176
24	CMW24014X25	14	MXT25	2-1/2	2.625	219
24	CMW24014X30	14	MXT30	3	2.875	268
24	CMW24014X35	14	MXT35	3-1/2	3.75	248
24	CMW24014X40	14	MXT40	4	4.125	226
24	CMW24014X45	14	MXT45	4-1/2	4.75	212
24	CMW24016X25	16	MXT25	2-1/2	2.625	259
24	CMW24016X30	16	MXT30	3	2.875	308
24	CMW24016X35	16	MXT35	3-1/2	3.75	288
24	CMW24016X40	16	MXT40	4	4.125	263
24	CMW24016X45	16	MXT45	4-1/2	4.75	249
24	CMW24016X50	16	MXT50	5	5.25	305
24	CMW24018X25	18	MXT25	2-1/2	2.625	323
24	CMW24018X30	18	MXT30	3	2.875	335
24	CMW24018X35	18	MXT35	3-1/2	3.75	315
24	CMW24018X40	18	MXT40	4	4.125	301
24	CMW24018X45	18	MXT45	4-1/2	4.75	286
24	CMW24018X50	18	MXT50	5	5.25	345
24	CMW24020X25	20	MXT25	2-1/2	2.625	353
24	CMW24020X30	20	MXT30	3	2.875	365
24	CMW24020X35	20	MXT35	3-1/2	3.75	343
24	CMW24020X40	20	MXT40	4	4.125	339
24	CMW24020X45	20	MXT45	4-1/2	4.75	324
24	CMW24020X50	20	MXT50	5	5.25	385
24	CMW24022X25	22	MXT25	2-1/2	2.625	383
24	CMW24022X30	22	MXT30	3	2.875	395
24	CMW24022X35	22	MXT35	3-1/2	3.75	373
24	CMW24022X40	22	MXT40	4	4.125	357
24	CMW24022X45	22	MXT45	4-1/2	4.75	362

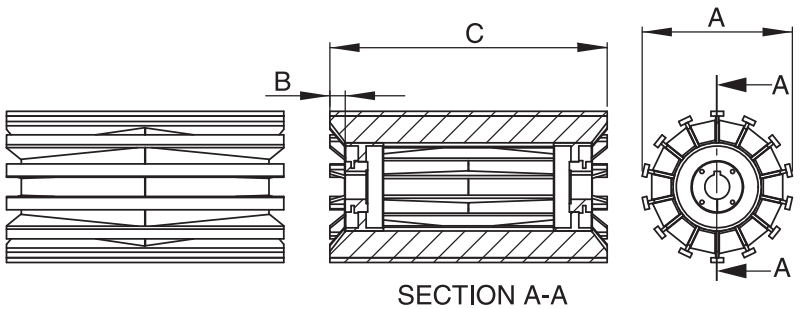
Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMW24022X50	22	MXT50	5	5.25	426
24	CMW24024X25	24	MXT25	2-1/2	2.625	413
24	CMW24024X30	24	MXT30	3	2.875	425
24	CMW24024X35	24	MXT35	3-1/2	3.75	403
24	CMW24024X40	24	MXT40	4	4.125	387
24	CMW24024X45	24	MXT45	4-1/2	4.75	380
24	CMW24024X50	24	MXT50	5	5.25	467
24	CMW24026X25	26	MXT25	2-1/2	2.625	443
24	CMW24026X30	26	MXT30	3	2.875	455
24	CMW24026X35	26	MXT35	3-1/2	3.75	433
24	CMW24026X40	26	MXT40	4	4.125	417
24	CMW24026X45	26	MXT45	4-1/2	4.75	409
24	CMW24026X50	26	MXT50	5	5.25	477
24	CMW24030X25	30	MXT25	2-1/2	2.625	504
24	CMW24030X30	30	MXT30	3	2.875	515
24	CMW24030X35	30	MXT35	3-1/2	3.75	493
24	CMW24030X40	30	MXT40	4	4.125	476
24	CMW24030X45	30	MXT45	4-1/2	4.75	469
24	CMW24030X50	30	MXT50	5	5.25	537
24	CMW24032X25	32	MXT25	2-1/2	2.625	534
24	CMW24032X30	32	MXT30	3	2.875	546
24	**CMW24032X35**	**32**	**MXT35**	**3-1/2**	**3.75**	**524**
24	CMW24032X40	32	MXT40	4	4.125	506
24	CMW24032X45	32	MXT45	4-1/2	4.75	499
24	CMW24032X50	32	MXT50	5	5.25	567
24	CMW24032X60	32	MXT60	6	1-1/8	543
24	CMW24036X25	36	MXT25	2-1/2	2.625	595
24	CMW24036X30	36	MXT30	3	2.875	606
24	CMW24036X35	36	MXT35	3-1/2	3.75	584
24	CMW24036X40	36	MXT40	4	4.125	566
24	CMW24036X45	36	MXT45	4-1/2	4.75	559
24	CMW24036X50	36	MXT50	5	5.25	628
24	CMW24038X25	38	MXT25	2-1/2	2.625	625
24	CMW24038X30	38	MXT30	3	2.875	637
24	CMW24038X35	38	MXT35	3-1/2	3.75	615
24	**CMW24038X40**	**38**	**MXT40**	**4**	**4.125**	**596**
24	CMW24038X45	38	MXT45	4-1/2	4.75	589
24	CMW24038X50	38	MXT50	5	5.25	658
24	CMW24038X60	38	MXT60	6	1-1/8	633
24	CMW24040X25	40	MXT25	2-1/2	2.625	656

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Mine Duty



Mine Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMW24040X30	40	MXT30	3	2.875	667
24	CMW24040X35	40	MXT35	3-1/2	3.75	645
24	CMW24040X40	40	MXT40	4	4.125	626
24	CMW24040X45	40	MXT45	4-1/2	4.75	619
24	CMW24040X50	40	MXT50	5	5.25	688
24	CMW24044X25	44	MXT25	2-1/2	2.625	716
24	CMW24044X30	44	MXT30	3	2.875	728
24	CMW24044X35	44	MXT35	3-1/2	3.75	706
24	**CMW24044X40**	**44**	**MXT40**	**4**	**4.125**	**687**
24	CMW24044X45	44	MXT45	4-1/2	4.75	679
24	CMW24044X50	44	MXT50	5	5.25	749
24	CMW24044X60	44	MXT60	6	5.75	723
24	CMW24046X25	46	MXT25	2-1/2	2.625	747
24	CMW24046X30	46	MXT30	3	2.875	758
24	CMW24046X35	46	MXT35	3-1/2	3.75	736
24	CMW24046X40	46	MXT40	4	4.125	717

Mine Duty Wing Pulley

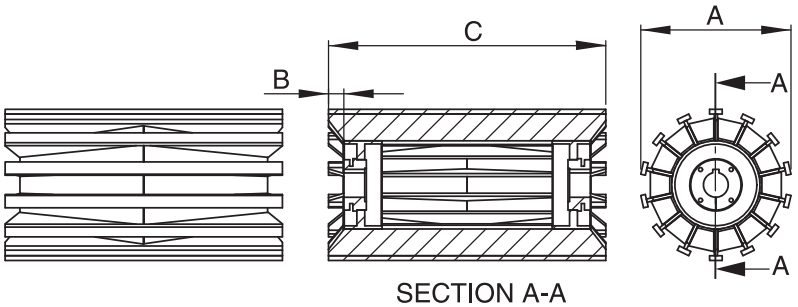
Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMW24046X45	46	MXT45	4-1/2	4.75	709
24	CMW24051X25	51	MXT25	2-1/2	2.625	856
24	CMW24051X30	51	MXT30	3	2.875	867
24	CMW24051X35	51	MXT35	3-1/2	3.75	845
24	**CMW24051X45**	**51**	**MXT45**	**4-1/2**	**4.75**	**811**
24	CMW24051X60	51	MXT60	6	5.75	872
24	CMW24054X25	54	MXT25	2-1/2	2.625	901
24	CMW24054X30	54	MXT30	3	2.875	913
24	CMW24054X35	54	MXT35	3-1/2	3.75	891
24	CMW24054X40	54	MXT40	4	4.125	869
24	CMW24054X45	54	MXT45	4-1/2	4.75	856
24	CMW24054X50	54	MXT50	5	5.25	933
24	CMW24054X60	54	MXT60	6	5.75	918
24	CMW24057X25	57	MXT25	2-1/2	2.625	947

* General position for bushing face - for position per application consult Martin.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.



Custom Shafting Available! Call Martin

Wing Pulleys — Mine Duty – M-HE Bushed



SECTION A-A

Mine Duty Wing Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
16	CMW16044H25	44	M-HE25	2-1/2	3/4	432
16	CMW16051H25	51	M-HE25	2-1/2	3/4	506
18	CMW18038H25	38	M-HE25	2-1/2	3/4	427
18	CMW18044H25	44	M-HE25	2-1/2	3/4	493
18	CMW18051H25	51	M-HE25	2-1/2	3/4	583
18	CMW18054H25	54	M-HE25	2-1/2	3/4	616
18	CMW18054H30	54	M-HE30	3	7/8	660
18	CMW18063H25	63	M-HE25	2-1/2	3/4	728
18	CMW18063H30	63	M-HE30	3	7/8	777
20	CMW20026H30	26	M-HE30	3	7/8	323
20	**CMW20026H35**	**26**	**M-HE35**	**3-1/2**	**7/8**	**320**
20	CMW20026H40	26	M-HE40	4	1	336
20	CMW20026H45	26	M-HE45	4-1/2	1	343
20	CMW20032H35	32	M-HE35	3-1/2	7/8	389
20	CMW20032H45	32	M-HE45	4-1/2	1	418
20	CMW20038H35	38	M-HE35	3-1/2	7/8	458
20	**CMW20038H45**	**38**	**M-HE45**	**4-1/2**	**1**	**494**
20	CMW20044H25	44	M-HE25	2-1/2	3/4	555
20	CMW20044H30	44	M-HE30	3	7/8	530
20	CMW20051H25	51	M-HE25	2-1/2	3/4	655
20	CMW20051H30	51	M-HE30	3	7/8	628
20	CMW20051H40	51	M-HE40	4	1	662
20	CMW20054H25	54	M-HE25	2-1/2	3/4	692
20	CMW20054H30	54	M-HE30	3	7/8	663
20	CMW20054H35	54	M-HE35	3-1/2	7/8	660
20	CMW20054H40	54	M-HE40	4	1	700
20	CMW20054H45	54	M-HE45	4-1/2	1	707
20	CMW20057H35	57	M-HE35	3-1/2	7/8	695
20	CMW20057H40	57	M-HE40	4	1	738
20	CMW20063H25	63	M-HE25	2-1/2	3/4	818
20	CMW20063H30	63	M-HE30	3	7/8	784
20	CMW20063H35	63	M-HE35	3-1/2	7/8	782
20	CMW20063H40	63	M-HE40	4	1	825
20	CMW20063H45	63	M-HE45	4-1/2	1	833
24	**CMW24032H40**	**32**	**M-HE40**	**4**	**1**	**521**
24	CMW24032H50	32	M-HE50	5	1	539
24	CMW24032H60	32	M-HE60	6	1-1/8	542
24	**CMW24038H50**	**38**	**M-HE50**	**5**	**1**	**629**
24	CMW24038H60	38	M-HE60	6	1-1/8	634
24	**CMW24044H45**	**44**	**M-HE45**	**4-1/2**	**1**	**708**
24	**CMW24044H50**	**44**	**M-HE50**	**5**	**1**	**719**
24	CMW24044H60	44	M-HE60	6	1-1/8	722
24	CMW24051H30	51	M-HE30	3	7/8	861
24	CMW24051H45	51	M-HE45	4-1/2	1	840
24	**CMW24051H60**	**51**	**M-HE60**	**6**	**1-1/8**	**872**
24	CMW24054H30	54	M-HE30	3	7/8	926
24	CMW24054H35	54	M-HE35	3-1/2	7/8	923
24	CMW24054H40	54	M-HE40	4	1	893
24	CMW24054H45	54	M-HE45	4-1/2	1	901
24	CMW24054H50	54	M-HE50	5	1	912
24	CMW24054H60	54	M-HE60	6	1-1/8	917
24	CMW24057H60	57	M-HE60	6	1-1/8	962
24	CMW24063H30	63	M-HE30	3	7/8	1075

Mine Duty Wing Pulley — M-HE Bushed

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
24	CMW24063H35	63	M-HE35	3-1/2	7/8	11072
24	CMW24063H45	63	M-HE45	4-1/2	1	1048
24	CMW24063H50	63	M-HE50	5	1	1059
24	CMW24063H60	63	M-HE60	6	1-1/8	1097
30	CMW30038H30	38	M-HE30	3	7/8	789
30	CMW30038H35	38	M-HE35	3-1/2	7/8	486
30	CMW30038H40	38	M-HE40	4	1	793
30	CMW30038H45	38	M-HE45	4-1/2	1	800
30	CMW30038H50	38	M-HE50	5	1	810
30	CMW30038H60	38	M-HE60	6	1-1/8	782
30	CMW30044H30	44	M-HE30	3	7/8	905
30	CMW30044H35	44	M-HE35	3-1/2	7/8	901
30	CMW30044H50	44	M-HE50	5	1	926
30	CMW30044H60	44	M-HE60	6	1-1/8	897
30	CMW30051H30	51	M-HE30	3	7/8	1084
30	CMW30051H35	51	M-HE35	3-1/2	7/8	1080
30	CMW30051H50	51	M-HE50	5	1	1104
30	CMW30051H60	51	M-HE60	6	1-1/8	1076
30	CMW30054H30	54	M-HE30	3	7/8	1142
30	CMW30054H35	54	M-HE35	3-1/2	7/8	1138
30	CMW30054H40	54	M-HE40	4	1	1145
30	CMW30054H45	54	M-HE45	4-1/2	1	1152
30	CMW30054H50	54	M-HE50	5	1	1162
30	CMW30054H60	54	M-HE60	6	1-1/8	1134
30	CMW30063H30	63	M-HE30	3	7/8	1360
30	CMW30063H35	63	M-HE35	3-1/2	7/8	1356
30	CMW30063H40	63	M-HE40	4	1	1363
30	CMW30063H45	63	M-HE45	4-1/2	1	1370
30	CMW30063H50	63	M-HE50	5	1	1380
30	CMW30063H60	63	M-HE60	6	1-1/8	1351
36	CMW36044H30	44	M-HE30	3	7/8	974
36	CMW36044H35	44	M-HE35	3-1/2	7/8	970
36	CMW36044H40	44	M-HE40	4	1	976
36	CMW36044H45	44	M-HE45	4-1/2	1	983
36	CMW36044H50	44	M-HE50	5	1	993
36	CMW36044H60	44	M-HE60	6	1-1/8	958
36	CMW36051H30	51	M-HE30	3	7/8	1157
36	CMW36051H35	51	M-HE35	3-1/2	7/8	1153
36	CMW36051H50	51	M-HE50	5	1	1175
36	CMW36051H60	51	M-HE60	6	1-1/8	1140
36	CMW36054H30	54	M-HE30	3	7/8	1222
36	CMW36054H35	54	M-HE35	3-1/2	7/8	1217
36	CMW36054H40	54	M-HE40	4	1	1224
36	CMW36054H45	54	M-HE45	4-1/2	1	1230
36	CMW36054H50	54	M-HE50	5	1	1240
36	CMW36054H60	54	M-HE60	6	1-1/8	1205
36	CMW36063H30	63	M-HE30	3	7/8	1448
36	CMW36063H35	63	M-HE35	3-1/2	7/8	1444
36	CMW36063H40	63	M-HE40	4	1	1450
36	CMW36063H45	63	M-HE45	4-1/2	1	1456
36	CMW36063H50	63	M-HE50	5	1	1467
36	CMW36063H60	63	M-HE60	6	1-1/8	1431

* General position for bushing face - for position per application consult Martin.

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Wing Pulleys — Quarry Duty

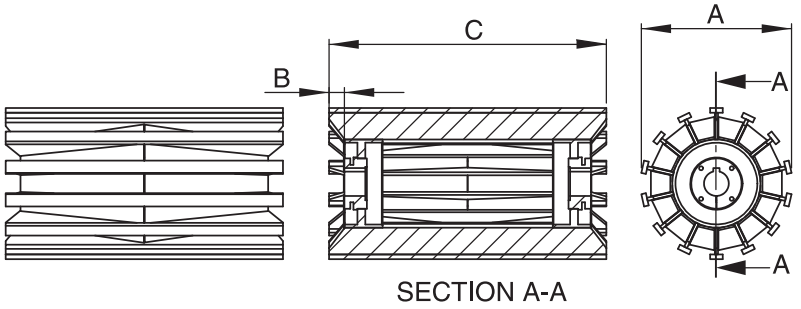
Quarry Duty Wing Pulleys



Martin's Quarry Duty Wing Pulleys are constructed from extremely heavy materials and are recognized in the industry as the most aggressive wing pulley in the business. All Martin wing pulleys utilize the unique 'end-pipe' design, which offers ultimate protection against wing folding and hub-weld fatigue. Our minimum 3/4" thick contact bar yields additional life in abrasive applications where our competitors thinner bar does not. Additionally, our 3/8" thick wing and 5/16" gussets offer higher structural support in aggressive applications.

All Martin Quarry Duty Wing Pulleys utilize full depth keyed bushings which offer maximum clamping force on the shaft and minimize "pulley walking." The Quarry Duty Wing Pulley has changed the industry and has spawned many 'knock-offs,' but none have been able to reproduce the original!

For the most aggressive applications, specify the best, specify the Martin Quarry Duty Wing Pulley!



SECTION A-A

FEATURES:

- Available in 10" thru 60" Diameter
- Minimum 3/4" x 2" Contact Bars
- Minimum 3/8" Thick Wings
- Minimum 5/16" Gussets
- Several Hub/Bushing Systems Available
- Features Unique Martin "End Pipe" Design
  - Better Protection Against Wing Folding
  - Better Protection Against Hub-Weld Fatigue
- Features Full Depth Keyed Bushings for Higher Clamping to Shaft

Quarry Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
12	**CQW12026X35**	**26**	**MXT35**	**3-1/2**	**3.75**	**211**
12	**CQW12038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**307**
14	CQW14026X25	26	MXT25	2-1/2	2.625	275
14	CQW14032X25	32	MXT25	2-1/2	2.625	330
14	CQW14038X25	38	MXT25	2-1/2	2.625	395
14	CQW14044X25	44	MXT25	2-1/2	2.625	459
14	CQW14051X25	51	MXT25	2-1/2	2.625	537
16	CQW16026X25	26	MXT25	2-1/2	2.625	296
16	CQW16026X30	26	MXT30	3	2.875	293
16	**CQW16026X35**	**26**	**MXT35**	**3-1/2**	**3.75**	**282**
16	CQW16032X25	32	MXT25	2-1/2	2.625	367
16	CQW16032X30	32	MXT30	3	2.875	360
16	**CQW16032X35**	**32**	**MXT35**	**3-1/2**	**3.75**	**350**
16	CQW16038X25	38	MXT25	2-1/2	2.625	440
16	CQW16038X30	38	MXT30	3	2.875	428
16	**CQW16038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**417**
16	CQW16044X25	44	MXT25	2-1/2	2.625	513
16	CQW16044X30	44	MXT30	3	2.875	495
16	**CQW16044X35**	**44**	**MXT35**	**3-1/2**	**3.75**	**484**
16	**CQW16044X40**	**44**	**MXT40**	**4**	**4.75**	**473**
16	CQW16051X25	51	MXT25	2-1/2	2.625	600
16	CQW16051X30	51	MXT30	3	2.875	581
16	CQW16051X35	51	MXT35	3-1/2	3.75	570
16	**CQW16051X45**	**51**	**MXT45**	**4-1/2**	**4.75**	**551**
18	CQW18026X25	26	MXT25	2-1/2	2.625	378
18	CQW18026X30	26	MXT30	3	2.875	369
18	**CQW18026X35**	**26**	**MXT35**	**3-1/2**	**3.75**	**355**
18	CQW18026X40	26	MXT40	4	4.125	352
18	CQW18032X25	32	MXT25	2-1/2	2.625	471
18	CQW18032X30	32	MXT30	3	2.875	456
18	**CQW18032X35**	**32**	**MXT35**	**3-1/2**	**3.75**	**442**
18	CQW18032X40	32	MXT40	4	4.125	433
18	CQW18038X25	38	MXT25	2-1/2	2.625	569
18	CQW18038X30	38	MXT30	3	2.875	543
18	**CQW18038X35**	**38**	**MXT35**	**3-1/2**	**3.75**	**529**
18	CQW18038X40	38	MXT40	4	4.125	514

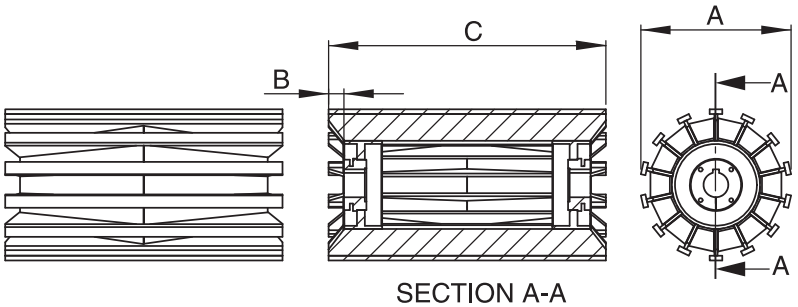
Quarry Duty Wing Pulleys

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
18	CQW18044X25	44	MXT25	2-1/2	2.625	657
18	CQW18044X30	44	MXT30	3	2.875	630
18	CQW18044X35	44	MXT35	3-1/2	3.75	616
18	**CQW18044X40**	**44**	**MXT40**	**4**	**4.125**	**595**
18	CQW18051X25	51	MXT25	2-1/2	2.625	769
18	CQW18051X30	51	MXT30	3	2.875	738
18	CQW18051X35	51	MXT35	3-1/2	3.75	724
18	CQW18051X40	51	MXT40	4	4.125	701
18	**CQW18051X45**	**51**	**MXT45**	**3-1/2**	**3.75**	**692**
18	**CQW18051X50**	**51**	**MXT50**	**3-1/2**	**3.75**	**705**
18	CQW18063X25	63	MXT25	2-1/2	2.625	959
18	CQW18063X30	63	MXT30	3	2.875	920
18	CQW18063X35	63	MXT35	3-1/2	3.75	905
18	CQW18063X40	63	MXT40	4	4.125	874
20	CQW20026X30	26	MXT30	3	2.875	404
20	CQW20026X35	26	MXT35	3-1/2	3.75	389
20	CQW20026X40	26	MXT40	4	4.125	384
20	CQW20026X45	26	MXT45	4-1/2	4.75	374
20	CQW20032X30	32	MXT30	3	2.875	500
20	CQW20032X35	32	MXT35	3-1/2	7/8	484
20	**CQW20032X40**	**32**	**MXT40**	**4**	**4.125**	**473**
20	CQW20032X45	32	MXT45	4-1/2	4.75	463
20	CQW20038X30	38	MXT30	3	2.875	596
20	CQW20038X35	38	MXT35	3-1/2	3.75	580
20	**CQW20038X40**	**38**	**MXT40**	**4**	**4.125**	**563**
20	CQW20038X45	38	MXT45	4-1/2	4.75	553
20	CQW20044X30	44	MXT30	3	2.875	692
20	CQW20044X35	44	MXT35	3-1/2	3.75	676
20	**CQW20044X40**	**44**	**MXT40**	**4**	**4.125**	**653**
20	**CQW20044X45**	**44**	**MXT45**	**4-1/2**	**4.75**	**643**
20	CQW20051X30	51	MXT30	3	2.875	811
20	CQW20051X35	51	MXT35	3-1/2	3.75	795
20	CQW20051X40	51	MXT40	4	4.125	770
20	**CQW20051X45**	**51**	**MXT45**	**4-1/2**	**4.75**	**760**
20	CQW20063X30	63	MXT30	3	2.875	1011

* General position for bushing face - for position per application consult Martin.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Wing Pulleys — Quarry Duty



Quarry Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
20	CQW20063X35	63	MXT35	3-1/2	3.75	994
20	CQW20063X40	63	MXT40	4	4.125	962
20	CQW20063X45	63	MXT45	4-1/2	4.75	952
24	CQW24032X30	32	MXT30	3	2.875	638
24	CQW24032X35	32	MXT35	3-1/2	3.75	614
24	CQW24032X40	32	MXT40	4	4.125	596
24	CQW24032X45	32	MXT45	4-1/2	4.75	587
24	CQW24032X50	32	MXT50	5	5.25	659
24	CQW24032X60	32	MXT60	6	5.75	630
24	CQW24038X30	38	MXT30	3	2.875	746
24	CQW24038X35	38	MXT35	3-1/2	3.75	723
24	**CQW24038X40**	**38**	**MXT40**	**4**	**4.125**	**703**
24	**CQW24038X45**	**38**	**MXT45**	**4-1/2**	**4.25**	**695**
24	CQW24038X50	38	MXT50	5	5.25	767
24	CQW24038X60	38	MXT60	6	5.75	736
24	CQW24044X30	44	MXT30	3	2.875	855
24	CQW24044X35	44	MXT35	3-1/2	3.75	831
24	CQW24044X40	44	MXT40	4	4.125	811
24	**CQW24044X45**	**44**	**MXT45**	**4-1/2**	**4.25**	**803**
24	**CQW24044X50**	**44**	**MXT50**	**5**	**5.25**	**875**
24	CQW24044X60	44	MXT60	6	5.75	845
24	CQW24051X30	51	MXT30	3	2.875	1015
24	CQW24051X35	51	MXT35	3-1/2	3.75	991
24	CQW24051X40	51	MXT40	4	4.125	964
24	**CQW24051X45**	**51**	**MXT45**	**4-1/2**	**4.25**	**956**
24	**CQW24051X50**	**51**	**MXT50**	**5**	**5.25**	**1035**
24	CQW24051X60	51	MXT60	6	5.75	1015
24	**CQW24057X50**	**57**	**MXT50**	**5**	**5.25**	**1144**
24	CQW24063X30	63	MXT30	3	2.875	1266
24	CQW24063X35	63	MXT35	3-1/2	3.75	1242
24	CQW24063X40	63	MXT40	4	4.125	1207
24	CQW24063X45	63	MXT45	4-1/2	4.25	1199
24	CQW24063X50	63	MXT50	5	5.25	1285
24	CQW24063X60	63	MXT60	6	5.75	1275
30	CQW30038X35	38	MXT35	3-1/2	3.75	896

Quarry Duty Wing Pulley

Diameter (A)	Part Number	Face (C)	Hub	Max Bore	Setback (B)*	Approx. Weight (lbs)
30	CQW30038X40	38	MXT40	4	4.125	901
30	CQW30038X45	38	MXT45	4-1/2	4.75	890
30	CQW30038X50	38	MXT50	5	5.25	898
30	CQW30038X60	38	MXT60	6	5.75	908
30	CQW30044X35	44	MXT35	3-1/2	3.75	1033
30	CQW30044X40	44	MXT40	4	4.125	1037
30	CQW30044X45	44	MXT45	4-1/2	4.25	1027
30	CQW30044X50	44	MXT50	5	5.25	1034
30	CQW30044X60	44	MXT60	6	5.75	1044
30	CQW30051X35	51	MXT35	3-1/2	3.75	1236
30	CQW30051X40	51	MXT40	4	4.125	1241
30	CQW30051X45	51	MXT45	4-1/2	4.25	1230
30	CQW30051X50	51	MXT50	5	5.25	1238
30	CQW30051X60	51	MXT60	6	5.75	1247
30	CQW30063X35	63	MXT35	3-1/2	3.75	1554
30	CQW30063X40	63	MXT40	4	4.125	1559
30	CQW30063X45	63	MXT45	4-1/2	4.25	1548
30	CQW30063X50	63	MXT50	5	5.25	1556
30	CQW30063X60	63	MXT60	6	5.75	1565
30	CQW36044X35	44	MXT35	3-1/2	3.75	1033
36	CQW36044X40	44	MXT40	4	4.125	1129
36	CQW36044X45	44	MXT45	4-1/2	4.25	1116
36	CQW36044X50	44	MXT50	5	5.25	1123
36	CQW36044X60	44	MXT60	6	5.75	1130
36	CQW36051X35	51	MXT35	3-1/2	3.75	1236
36	CQW36051X40	51	MXT40	4	4.125	1341
36	CQW36051X45	51	MXT45	4-1/2	4.25	1328
36	CQW36051X50	51	MXT50	5	5.25	1335
36	CQW36051X60	51	MXT60	6	5.75	1342
36	CQW36063X35	63	MXT35	3-1/2	3.75	1679
36	CQW36063X40	63	MXT40	4	4.125	1682
36	CQW36063X45	63	MXT45	4-1/2	4.25	1669
36	CQW36063X50	63	MXT50	5	5.25	1676
36	CQW36063X60	63	MXT60	6	5.75	1683

* General position for bushing face - for position per application consult Martin.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.



Custom Shafting Available! Call Martin

Wing Pulleys — Quarry Duty "AR"

Quarry Duty "AR" Wing Pulleys



Martin Quarry Duty "AR" (abrasive resistant) Wing Pulleys are constructed with AR400 3/4" x 2" heavy contact bars and are recognized in the industry as a true problem solving pulley. All Martin Quarry Duty "AR" Wing Pulleys utilize the unique 'end-pipe' design, which offers ultimate protection against wing folding and hub-weld fatigue. Our 3/4" AR400 contact bar yields maximum life in super abrasive applications where our competitors thinner A36 mild steel bar does not. Additionally, our 1/2" thick wing and 5/16" gussets offer higher structural support in aggressive applications.

All Martin Quarry Duty "AR" Wing Pulleys utilize full depth keyed bushings which offer maximum clamping force on the shaft and minimize "pulley walking." The Quarry Duty "AR" wing pulley has changed the industry and solved the problem of premature bar wear plaguing users in some of the most aggressive applications.



FEATURES:

- Available in 10" thru 60" Diameter
- Minimum 3/4" x 2" Contact Bars "AR400" Abrasive Resistant Steel
- Minimum 1/2" Thick Wings
- Minimum 5/16" Gussets
- Features Unique Martin "End Pipe" Design
  - Better Protection Against Wing Folding
  - Better Protection Against Hub-Weld Fatigue
- Features Full Depth Keyed Bushings for Higher Clamping to Shaft
- Several Hub/Bushing Systems Available



Call Martin for fast turn around times on Made-to-Order Quarry Duty "AR" Pulleys!

Special Construction Pulleys

Special manufacturing processes require special pulleys. Whether the equipment is used in mining, chemical, waste processing, or any other demanding application Martin has the experience to solve your problem.

With regional manufacturing facilities and knowledgeable sales teams strategically located across North America, Martin can meet your needs. Martin is the ONE you can rely on for manufacturing expertise, application experience, and a quick delivery to get you what you need, when you need it.

Martin routinely manufactures special construction pulleys to provide exceptional wear in even the roughest conditions. Below is a sample of some of the more common specialty pulleys Martin can manufacture.

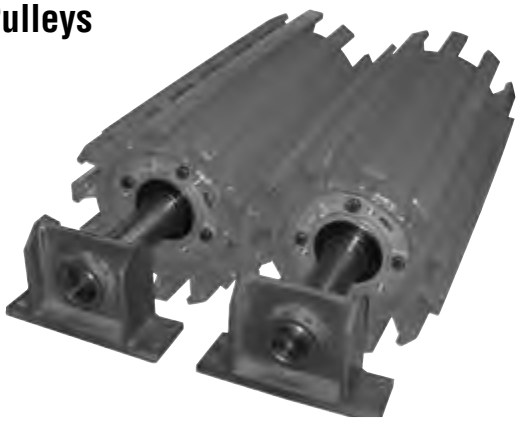
- Available in Wide Variety of MTO Sizes
- Meet or Exceed CEMA Standards
- Superior Strength
- Pulleys for Any Industry
- Fast Reliable Service

DSP Dead Shaft Pulleys

The Martin Dead Shaft Pulley (DSP) is designed to withstand the most rugged applications in any harsh environment. The DSP has been used in the industry to help reduce damage to conventional externally mounted pillow block bearings. The DSP features an internal bearing, tucked back close to the pulley where falling material is less likely to damage the bearings and seals. The Martin DSP features an off-the-shelf piloted flange cartridge (interchangeable with multiple bearing manufacturers) suited with harsh environment seals and external end caps for maximum protection against material contamination.

Each Martin DSP Pulley is shipped with an aggressively constructed pedestal which is fabricated to drop into the same dimensional footprint of the pillow block which it is replacing (this must be specified at the time of order).

The DSP is available as either wing or drum pulleys.



DSP Wing Pulley with Martin Pedestals



DSP Drum Pulley



DSP Wing Pulley

Spiral Pulleys

The Martin Spiral pulley is manufactured with two reverse helix flights wrapped around the pulley core. The spiral material can vary in thickness and width and is subject to customer specification. The spiral pulley is very effective in cleaning the belt while suppressing noise.



Spiral Wing Pulley



Spiral Drum Pulley with 1/2" x 1/2" Flight



Spiral Drum Pulley with 1" x 1" Flight



Spiral Drum Pulley with 1/2" x 1" Flight

Special Construction Pulleys

Sprocket Rollers for Engineered Class Chain

Martin Sprocket & Gear Manufactures Sprocket Rollers for engineered class chain. Our rollers are manufactured per customer specification and can be fabricated with bushings, keyless locking devices and through shafts, or with stub shafts and welded construction. Each Sprocket Roller features Martin Accu-Torch® Sprocket(s) of specification, and is affixed to the roller OD at any interval with our high tech sub-arc welding process.



Multi-Strand Sprocket Roller for Paper Mill Application



Sprocket Roller for Truck Dump in Sugar Mill Application

Gudgeon Rollers

Martin Sprocket & Gear offers gudgeon rollers, fabricated from thick wall pipe or tube and fitted with a specially designed end assembly that eliminates shaft and end disc weld fatigue. Each of these rollers is designed to convey bulk product without a conveyor belt directly over the roller face. Industries such as logging, lumber mills, steel mills and palletized product applications are perfect for the Martin Gudgeon Roll.



Cage Rollers

Martin Sprocket & Gear manufactures cage rollers for belt conveyors in almost any custom size requested. Cage rollers are very effective in allowing material to fall through the pulley. The roller is also known as a “beater roll” and actually shakes the material loose from the belt as it passes over the pulley.



Lagging - Vulcanized

Nomenclature

VRL
Vulcanized Rubber Lagging

HBL
Herringbone Lagging

DGL
Diamond Grooved Lagging

In any conveying application, conveyor belt slippage can be a problem. There are basically three different factors that can cause slippage between a conveyor belt and a drive pulley.

1. The coefficient of friction might be too low.

2. The wrap angle of the belt on the conveyor pulley might be too small.

3. The tension on the belt might be too low.

The most cost efficient way to reduce the risk of slippage is to install the right type of pulley lagging on the drive pulley. The use of lagging on the conveyor pulley performs two functions:

1. Its primary function is to aid in gripping the conveyor belt, thus helping transmit torque from the drive to the pulley in order to carry the load on the conveyor belt.

2. Lagging also prolongs the wear life of the pulley.

Vulcanized lagging is a rubber compound that has been cured in an autoclave, which typically results in a 60-70 durometer material. After curing, the lagging can be grooved and/or machined.

Martin offers vulcanized rubber lagging on all of our drum pulleys. We apply rubber directly to the face of our pulleys by extrusion. Our lagging department has perfected the process and can apply rubber in any thickness to any diameter core pulley ranging from 4" to 72". We extrude rubber in the specified thickness, wrap the uncured rubber pulley in Teflon® impregnated curing tape and bake the pulley in one of our large diameter autoclaves under high pressure at a very high temperature for a set period of time until the rubber is fully cured.

We offer several grooving patterns in the cured rubber, but among the most popular are Herringbone and Diamond Groove.

The standard hardness for pulley lagging ranges from 60-70, but other durometers are available upon request.

Vulcanized Lagging - Plain

Plain vulcanized lagging is suitable for any pulley in the conveyor system where watershed is not necessary. It provides additional protection against belt wear and increases the life of the pulley.



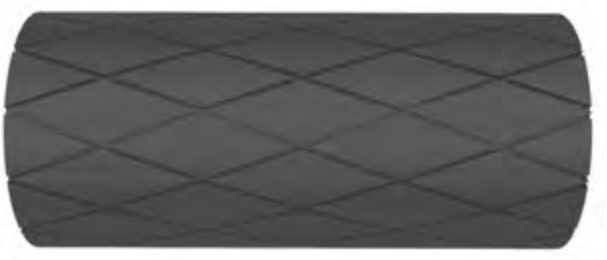
Vulcanized Lagging - Herringbone

Herringbone Grooved Lagging offers superior tractive properties and is desired on all drive pulley applications. Each groove offers a path for water and other liquids to escape between the pulley face and the conveyor belt. Herringbone grooved pulleys are directional and should be applied to the conveyor in a manner in which the grooves point toward the direction of belt travel.



Vulcanized Lagging - Diamond Grooved

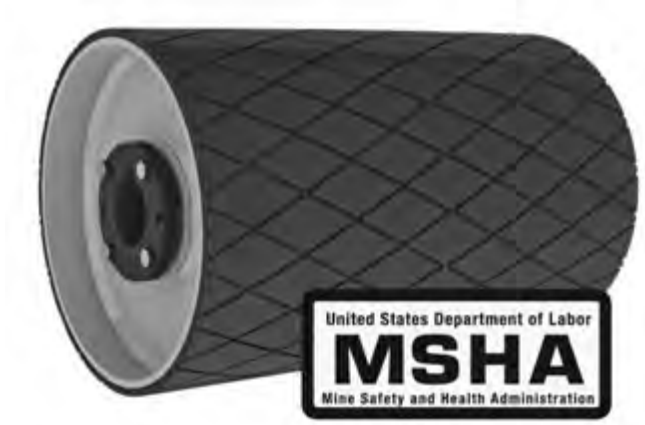
Diamond Grooved Lagging also offers superior tractive properties and should be specified on all reversing conveyor applications.



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Lagging - Ceramic

MSHA- Mine & Safety Hazard Approved



Mine & Safety Hazard Approved Lagging (MSHA) should be used in all underground coal mining applications and any application where fire safety is imperative. Martin's MSHA lagging compound has been approved by the United States Federal Government to apply on all pulleys in mining applications where fire safety is required. The MSHA compound is clearly labeled on each pulley and stamped with our government ID in several places on each pulley. Minimum required thickness for MSHA lagging is 1/2".

The MSHA compound can be shipped as plain, herringbone or diamond grooved

AR- Abrasive Resistant



Abrasive Resistant Lagging is a very popular compound in the most rugged applications where protection against highly abrasive conveyed materials is required. Martin's AR (abrasive resistant) compound was developed with the engineering support and technical experience of chemists from the tire industry. The AR compound mimics the substance used in the tires of the giant "quarry loaders" where resistance to puncture, wear, and chunking has been essential. Our suppliers have learned through the years that the same technology can be applied to our rubber lagging compounds.

For maximum protection against premature lagging failure, specify Martin's AR Lagging!

Ceramic (Cold bond and Vulcanized)



Vulcanized Ceramic Lagging by Martin has proven to be the best in the industry. Martin has worked closely with independent testing labs to study adhesion strengths of several bonding methods. Our studies found that the Martin VC Lagg yield an 83% higher bonding strength than conventional cold bonding methods for ceramic lagging compounds.

Weld On Strip Lagging



Weld on Strip Lagging is available from Martin's stock and is easily installed on drum pulleys either in our facilities or in the field. We stock 72" long strips with retainers in diameters from 10" to 48". Not only do we have standard 60 durometer SBR available, but we can provide special compounds like; 40 durometer rubber, EPDM and SOF (Static Conductive Oil & Fire resistant).

Cold Bond



Cold Bond Lagging is another product available from Martin. We stock full rolls of pre-cured rubber suitable for installation directly to the face of the pulley. Our Cold Bond rubber is available in plain or diamond grooved pattern. This product is typically used when pulleys on the conveyor must be re-lagged while still in operation, and can reduce the change-out time required to install a complete new assembly.

Simply tell us the diameter and face width of the pulley on which you would like to install our Cold Bond Lagging, and we will generate a quote for a “Cold Bond Kit” which will include all necessary materials required to lag the subject pulley.

Molded Urethane



Molded Urethane Lagging is yet another product offered by Martin which will protect pulleys from extreme abrasion. Our Urethane lagging is actually poured in a liquid state into a fabricated form, which encases the pulley. Once the urethane is cured and hardened, we machine the outside diameter to a concentric OD. We can additionally alter the urethane lagging to either a herringbone or diamond grooved pattern.

SOF (Static Conductive/Oil Resistant/Flame Resistant)



SOF (Static Conductive/Oil Resistant/Flame Resistant): Static Conductive, Oil Resistant, and Flame Resistant properties are combined to reduce the risk of explosion, and fire or oil related lagging failures. The static reducing qualities allow the accumulation of static to dissipate through the lagging to ground (in a grounded system). Oil resistance is appropriate for moderately oily conditions involving hydrocarbons, fats, oils, greases, hydraulic fluids, solvents, and other moderate chemicals. The self extinguishing characteristics of SOF make it ideal for use in grain and fertilizer applications.

Wear Items

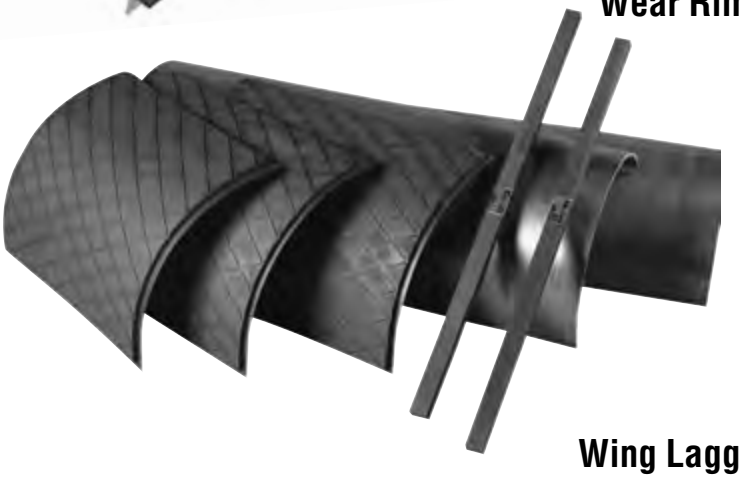
Shell Lagging



Pulley Diameter	# Shells
12	3
14	3
16	4
18	4
20	4
24	4
30	4
36	5

Shell Lagging is one product offered by Martin that allows our customers to Relag drum pulleys while they are still on the conveyor. Our field installable shell lagging kits are available in 3 piece, 4 piece and 5 piece construction depending upon the diameter of the core pulley to which the shells will be applied. Each shell is available in either flat construction or crowned construction.

Wear Rims



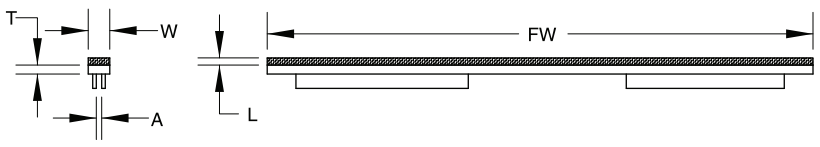
The Martin Steel Wear Rims are an additional item offered by Martin that allows the pulley to be patched while it is on the conveyor. Each rim is available in a 2 piece shell in 1/4", 5/16", 3/8" or 1/2" thick material.

Wing Lagging



Martin Wing Lagging is designed to slide over the Martin wing pulley contact bars and is available in sizes suitable for all duties of our wing pulleys. Wing lagging is an excellent method of extending life on wing pulleys contact bars where belt abrasion typically causes premature wear. The Martin Wing Lagging product is easily installed either in the shop or in the field and can be supplied in either 72" long strips for your inventory, or in cut to length sizes for immediate installation.

Lagged Replacement Contact Bars



Must be approved by customer:

FW _____ W _____

T _____ A _____

L _____

The Martin Replacement contact bars are intended for use on all manufacturer's wing pulleys and are field installable as well as shop installable. This product features vulcanized lagging on flatbars which have ¼" x 1" clips on the bottom side designed to slide over the vertical wing flights on wing pulleys that have worn contact bars. It is imperative that the specific wing flight thickness be specified at the time of order so that our fabrication team can space the clips properly to slip over the existing wings.

Frequently Asked Questions

Once Again, Martin has the answer when it comes to offering a solution to field replacements on conveyor pulleys; Steel Wear Rims, Shell Lagging, Wing Lagging and Lagged Replacement Bars. There are many applications that require a simple fix in the field while the pulley is still on the conveyor structure. The Martin Wear Item line up addresses these types of situations. We offer replacement parts for both drum pulleys and wing pulleys; each intended for installation on an existing pulley in the field.

Some common questions to address regarding the Martin Wear Parts are:

Q: When does it make sense to install the Martin Shell Lagging on a drum pulley?

A: If the conveyor belt has worn through the rubber lagging on a pulley but not had time to wear into the drum pulley shell, the Martin Shell Lagging may be a good solution.

Q: Can I install the Martin Shell Lagging on new pulleys?

A: Absolutely! However it is not recommended that the shell lagging be used in drive pulley applications where tensions are extreme. The Martin Shell Lagging is primarily intended for field installation as a means of avoiding down time caused by belt slippage from worn lagging.

Q: Does the Martin Wing Lagging fit on all manufacturers wings pulleys?

A: No, the Martin Wing Lagging product is intended for application on flatbar of dimensions equal to what is supplied on the Martin Wing Pulley.

Q: Does the Martin Wing Lagging Require any tools to install?

A: Yes, but very few (Dead-Blow Hammer & a Welder). Each wing lagging strip is installed by gently pounding it over the existing contact bar on each individual wing. Once the wing has been rotated on the conveyor to a point where the inside wings are exposed; then the cut-to-length strips are positioned and pounded on with a Martin dead-blow hammer. The product will essentially “self-seat” itself when it hits the crown of the pulley, but should be driven on the balance of the distance across the face of the pulley. Once the Lagged Wing is properly positioned, a stitch weld should be placed along the bottom side of the bar, while watching for delamination of lagging from too much heat.

Q: Do the Martin Lagged Replacement Contact Bars fit all manufacturers’ wing pulleys?

A: Yes they do. However, it is imperative that the wing flight thickness be submitted to our factory prior to manufacturing the replacement bars. Most pulley manufacturers utilize different thickness materials on their wing flights and in order to ensure a tight fit of our bar onto the wing, we must know that dimension. Please ask one of our Martin factory representatives for a Lagged Replaceable Contact Bar sheet.

Q: Do the Martin Steel Wear Rims fit on all manufacturers pulleys?

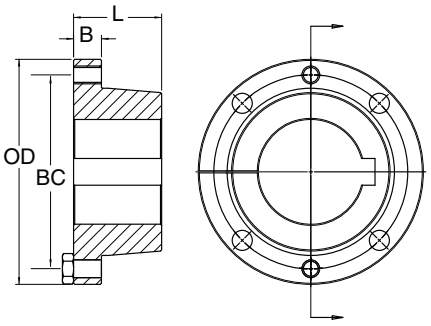
A: Yes, however we need to know the outside diameter and face width of the drum pulley on which it will be installed. We typically manufacture the Steel Wear Rims in 2 halves which need to be clamped to the core pulley. Each half-shell is trimmed ¼" short of the core face so that there is room to run a weld to fasten the Wear Rim to the pulley. It is also important that the core is clean and free of debris prior to installation for maximum operating performance.

**** MANUFACTURERS NOTE ****

Martin Wear Rims, Shell Lagging, Wing Lagging and Replacement Lagged Contact bars are intended for wear and tractive properties only, and NOT intended for structural enhancement of the underlying conveyor pulley.

Conveyor Bushings





QD Short Bushings & Taper Bushings also Available.
Please See General Catalog, Section B For More Information.

Martin's MXT & MXT-STL Bushings are available from stock to fit all popular pulley sizes. Martin stocks both MXT & MXT-STL Bushings in a wide range of bore sizes per hub. Both the MXT & MXT-STL Bushing offers a 2" per foot taper, which reduces end disc pre-stressing, as well as increasing clamping force.

All bushings size 50 and larger feature full depth keys.

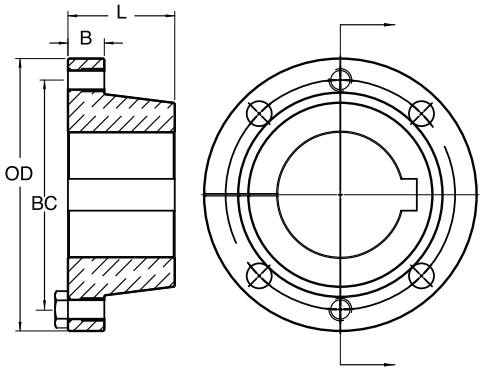
MXT®/ MXT-STL® Bushing Dimensions

Part Number		Max. Bore (In.)	Dimensions				Cap Screws		Wt. Lbs. (Approx)	Standard Stock Bores		Wrench Torque (Ft./Lbs.)
Cast / Ductile	Steel		Length thru Bore (L)	Flange Width (B)	Flange O.D. (OD)	Bolt Circle (BC)	No.	Size		Stock Bore (Inches)	Keyway*	
MXT15	MXT-STL15	1-1/2	1-1/8	3/8	2-7/8	2-7/16	4	1/4 × 1	0.7	5/8, 3/4, 7/8	3/16 × 3/32	8
										1, 1-1/8, 1-3/16, 1-1/4	1/4 x 1/8	
										1-7/16, 1-1/2	3/8 x 1/8*	
MXT20	MXT-STL20	2	1-13/32	15/32	3-3/4	3-3/16	4	5/16 x 1-1/4	1.5	3/4	3/16 x 3/32	17
										1, 1-3/16, 1-1/4	1/4 x 1/8	
										1-7/16, 1-1/2, 1-11/16	3/8 x 3/16	
										1-15/16, 2	1/2 x 3/16*	
MXT25	MXT-STL25	2-1/2	1-7/8	5/8	4-7/16	3-3/4	4	3/8 x 1-3/4	2.6	1, 1-3/16, 1-1/4	1/4 x 1/8	29
										1-7/16, 1-1/2, 1-11/16	3/8 x 3/16	
										1-15/16, 2, 2-3/16	1/2 x 1/4	
										2-7/16	5/8 x 1/8*	
MXT30	MXT-STL30	3	2-1/16	11/16	5-5/16	4-9/16	4	7/16 x 1-1/2	4.2	1-7/16, 1-1/2	3/8 x 3/16	46
										1-15/16, 2-3/16	1/2 x 1/4	
										2-7/16, 2-1/2, 2-11/16	5/8 x 5/16	
										2-15/16	3/4 x 3/16*	
MXT35	MXT-STL35	3-1/2	2-15/32	25/32	6-5/16	5-7/16	4	1/2 x 1-3/4	7.4	1-15/16, 2-3/16	1/2 x 1/4	70
										2-7/16, 2-1/2, 2-11/16	5/8 x 5/16	
										2-15/16	3/4 x 3/8	
										3, 3-7/16	7/8 x 5/16*	
MXT40	MXT-STL40	4	2-13/16	7/8	7-1/8	6-1/8	4	9/16 x 2	10.5	2-3/16	1/2 x 1/4	100
										2-7/16	5/8 x 5/16	
										2-15/16	3/4 x 3/8	
										3-7/16, 3-1/2	7/8 x 7/16	
										3-15/16	1 x 3/8*	
MXT45	MXT-STL45	4-1/2	3-5/16	15/16	8	6-7/8	4	5/8 x 2-1/4	14.8	2-15/16	3/4 x 3/8	140
										3-7/16	7/8 x 7/16	
										3-15/16	1 x 1/2	
										4-7/16	1 x 3/8*	
MXT50	MXT-STL50	5	3-3/4	1	10-1/8	8-5/16	4	3/4 x 2-1/2	27.8	3-7/16	7/8 x 7/16	250
										3-15/16, 4-7/16	1 x 1/2	
										4-15/16, 5	1-1/4 x 5/8	
MXT60	MXT-STL60	6	4-1/8	1-1/8	11-15/16	9-7/8	4	7/8 x 2-1/2	42.8	4-15/16, 5-7/16, 5-1/2	1-1/4 x 5/8	400
										5-15/16, 6	1-1/2 x 3/4	
MXT70	MXT-STL70	7	4-11/16	1-5/16	13-15/16	11-9/16	4	1x 3	66.3	6-1/4, 6-7/16, 6-1/2	1-1/2 x 3/4	600
										6-15/16, 7	1-3/4 x 3/4	
MXT80	MXT-STL80	8	5-1/8	1-3/8	15-5/8	12-7/8	4	1-1/8 x 3-1/2	85.7	7-1/4, 7-7/16, 7-1/2	1-3/4 x 3/4	750
										7-15/16, 8	2 x 3/4	
MXT100	MXT-STL100	10	6-3/16	1-9/16	17-15/16	15-9/16	6	1-1/8 x 3-1/2	146.0	8, 8-1/2, 9	2 x 3/4	750
										9-7/16, 9-1/2, 10	2-1/2 x 7/8	
MXT120	MXT-STL120	12	7-1/16	1-3/4	20-5/8	18-3/16	8	1-1/8 x 3-1/2	216.0	10-1/2, 11	2-1/2 x 7/8	750
										11-1/2, 12	3 x 1	

* Keystock provided for non-standard keyways.

Conveyor Bushings

QD Short Bushings & Taper Bushings also Available.
Please See General Catalog, Section B For More Information.





Martin's M-HE Bushings are available from stock to fit all popular pulley sizes. Martin stocks M-HE Bushings in a wide range of bore sizes per hub. The M-HE Bushing offers a 3" per foot taper, which reduces end disc pre-stressing.

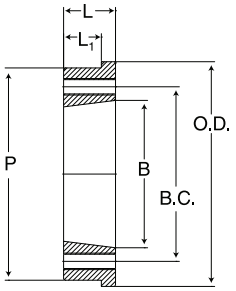
M-HE® Bushing Dimensions

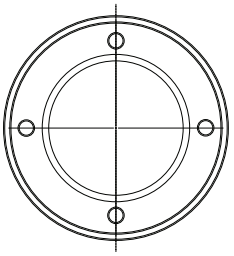
Part Number	Dimensions					Cap Screws		Wt. Lbs. (Approx.)	Standard Stock Bores		Wrench Torque (Ft./Lbs.)
	Max. Bore (In.)	Length thru Bore (L)	Flange Width (B)	Flange O.D. (OD)	Bolt Circles (BC)	No. Bolts	Size		Stock Bore	Keyseat*	
M-HE25	2-1/2	2-1/4	3/4	4-5/8	3-15/16	4	3/8-16 × 1-1/2	3	1, 1-1/8, 1-3/16, 1-1/4	1/4 × 1/8	30
									1-5/16, 1-3/8	5/16 × 5/32	
									1-7/16, 1-1/2, 1-11/16, 1-3/4	3/8 × 3/16	
									1-13/16, 1-7/8, 1-15/16, 2, 2-1/8, 2-3/16, 2-1/4	1/2 × 1/4	
									2-5/16, 2-3/8, 2-7/16, 2-1/2	5/8 × 3/16	
M-HE30	3	2-3/4	7/8	5-5/8	4-11/16	4	1/2-13 × 1-3/4	6	1-3/8	5/16 × 5/32	60
									1-7/16, 1-1/2, 1-11/16, 1-3/4	3/8 × 3/16	
									1-15/16, 2, 2-3/16	1/2 × 1/4	
									2-7/16, 2-1/2, 2-9/16, 2-11/16, 2-3/4	5/8 × 5/16	
									2-13/16, 2-7/8, 2-15/16, 3	3/4 × 1/8	
M-HE35	3-1/2	3	7/8	6-5/8	5-9/16	4	9/16-12 × 2-1/2	8	1-3/16	1/4 × 1/2	90
									1-7/16, 1-1/2, 1-11/16, 1-3/4	3/8 × 3/16	
									1-15/16, 2, 2-3/16, 2-1/4	1/2 × 1/4	
									2-3/8, 2-7/16, 2-1/2, 2-11/16, 2-3/4	5/8 × 5/16	
									2-7/8, 2-15/16, 3, 3-3/16	3/4 × 3/8	
									3-3/8, 3-7/16, 3-1/2	7/8 × 3/16	
M-HE40	4	3-1/2	1	7-1/2	6-5/16	4	5/8-11 × 2-1/2	13	1-15/16, 2-3/16	1/2 × 1/4	140
									2-7/16, 2-1/2, 2-11/16	5/8 × 5/16	
									2-15/16, 3-3/16	3/4 × 3/8	
									3-7/16, 3-11/16	7/8 × 7/16	
									3-7/8, 3-15/16, 4	1 × 1/4	
M-HE45	4-1/2	4	1-1/4	8-3/4	7-5/16	6	5/8-11 × 2-1/2	22	1-15/16	1/2 × 1/4	140
									2-7/16	5/8 × 5/16	
									2-15/16	3/4 × 3/8	
									3-7/16, 3-1/2	7/8 × 7/16	
									3-15/16	1 × 1/2	
									4-3/16, 4-7/16, 4-1/2	1 × 1/4	
M-HE50	5	4-1/2	1-1/2	9-5/8	8	6	3/4-10 × 3	40	2-15/16	3/4 × 3/8	200
									3-7/16	7/8 × 7/16	
									3-15/16, 4-7/16	1 × 1/2	
									4-15/16, 5	1-1/4 × 1/4	
M-HE60	6	5-1/4	1-3/4	11-1/8	9-1/4	6	7/8-9 × 3-1/2	50	3-15/16, 4-1/4, 4-7/16	1 × 1/2	350
									4-15/16, 5-7/16, 5-1/2	1-1/4 × 5/8	
									5-15/16, 6	1-1/2 × 1/4	
M-HE70	7	4.45	2	12-3/4	10-1/2	6	1-8 × 1/4	74	4-7/16	1 × 1/2	350
									4-15/16, 5-7/16	1-1/4 × 5/8	
									5-7/16, 6, 6-7/16, 6-1/2	1-1/2 × 3/4	
									6-15/16, 7	1-3/4 × 1/4	
M-HE80	8	5.20	2-1/4	14-1/2	12-1/8	6	1-1/8-7 × 4-1/2	114	5-15/16, 6-7/16	1-1/2 × 3/4	350
									6-3/4, 6-15/16, 7, 7-3/16, 7-1/2, 7-7/16	1-3/4 × 3/4	
									7-3/4, 7-15/16, 8	2 × 3/4	

* Keystock provided for non-standard keyways.

Weld On Hubs







QD & Taper Hubs also Available.
Please See General Catalog, Section B For More Information.

Martin's weld on hubs are specifically designed for use on conveyor pulleys. Hubs are available from stock to fit all popular pulley sizes. Martin 's weld on hubs are available in MXT an M-HE styles.

MXTH™ Weld On Hubs

Part Number	Dimensions - Inches						Tapped Holes		Wt. Lbs. (Approx.)
	OD	LTB (L)	Step OD (P)	Step LTB (L_1)	Taper Fit (B)	B.C.	No.	Size	
MXTH-15	3.190	0.625	2.875	0.438	2.000	2.438	4	1/4 - 20	0.7
MXTH-20	4.065	0.812	3.813	0.562	2.688	3.188	4	5/16 - 18	1.5
MXTH-25	4.690	1.125	4.375	0.812	3.188	3.750	4	3/8 - 16	2.7
MXTH-30	5.940	1.250	5.750	0.875	3.875	4.562	4	7/16 - 14	4.1
MXTH-35	6.565	1.500	6.345	1.062	4.688	5.438	4	1/2 - 13	6.6
MXTH-40	7.563	1.750	7.250	1.250	5.313	6.125	4	9/16 - 12	10.7
MXTH-45	8.315	2.125	8.000	1.500	5.938	6.875	4	5/8 - 11	15.4
MXTH-50	9.940	2.500	9.563	1.750	7.250	8.312	4	3/4 - 10	24.9
MXTH-60	11.690	2.750	11.250	1.938	8.625	9.875	4	7/8 - 9	36.4
MXTH-70	13.628	3.125	13.188	2.188	10.000	11.562	4	1 - 8	57.7
MXTH-80	14.940	3.438	14.625	2.438	11.125	12.875	4	1-1/8 - 7	75.6
MXTH-100	17.940	4.125	17.500	3.000	13.688	15.562	6	1-1/8 - 7	122.0
MXTH-120	20.940	4.8125	20.500	3.50	16.188	18.1875	8	1-1/8 - 7	189

M-HEH™ Weld On Hubs

Part Number	Dimensions - Inches						Tapped Holes		Wt. Lbs. (Approx.)
	OD	LTB	Step OD	Step LTB	Taper Fit	B.C.	No.	Size	
M-HEH-25	4.700	1.140	4.499	0.822	3.312	3.938	4	3/8 - 16	2.6
M-HEH-30	6.950	1.265	6.624	0.885	3.907	4.688	4	1/2 - 13	8.4
M-HEH-35	6.910	1.515	6.627	1.010	4.717	5.563	4	9/16 - 12	7.9
M-HEH-40	8.420	1.765	8.002	1.260	5.445	6.313	4	5/8 - 11	14.6
M-HEH-45	9.000	2.140	7.999	1.510	6.124	7.313	6	5/8 - 11	19.0
M-HEH-50	10.000	2.515	9.499	1.790	6.685	8.000	6	3/4 - 10	27.8
M-HEH-60	11.906	2.765	11.249	2.010	7.808	9.250	6	7/8 - 9	43.7
M-HEH-70	13.642	3.140	13.187	2.198	9.994	11.562	6	1 - 8	57.7
M-HEH-80	15.265	3.640	14.749	2.635	11.119	12.875	6	1-1/8 - 7	81.4

Shafting



Martin offers a wide variety of solutions for your shafting needs. We offer a number of materials from cold finish ½" diameter to hot roll material in excess of 15" diameter. Stock shafting material is available in several grades including 1144, 1045, 4140 and stainless steel. Our machining capabilities are virtually unlimited featuring CNC lathes, as well as engine lathes, vertical milling machines, horizontal milling machines and more to modify every shaft exactly to your specifications for your unique application.

Diameters shown in table are standard sizes recommended for general use. Standard bushings, bearings, couplings, pulleys, sheaves, clutches, backstops, and other conveyor items are commonly found in these diameters.

Standard Shaft Diameters
15/16
1-3/16
1-7/16
1-11/16
1-15/16
2-3/16
2-7/16
2-11/16
2-15/16
3-7/16
3-15/16
4-7/16
4-15/16
5-7/16
6
6-1/2
7
7-1/2

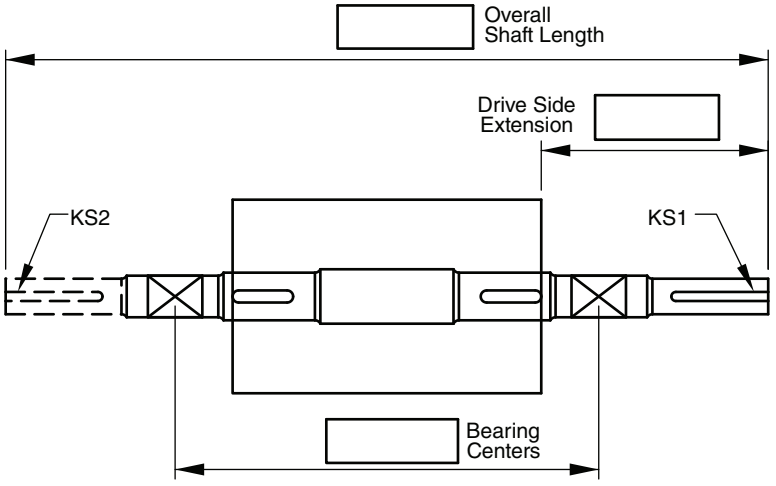
*Tolerances for shafting diameters are as follows:		
	Plus	Minus
Up to 1-1/2"	0.000	0.002
Over 1-1/2" to 2 1/2"	0.000	0.003
Over 2 1/2" to 4"	0.000	0.004
Over 4" to 6"	0.000	0.005
Over 6" to 8"	0.000	0.006
Over 8" to 9"	0.000	0.007
Over 9"	0.000	0.008

* Special tolerances available upon request.

Shaft Keyseats
Shaft keyseats are commonly used beneath pulley bushings and with a drive. Pulley keyseats for standard pulleys start 1/2" inside the face and are keyed through the bushing. Location of drive keyseats are standard and the size is determined by the shaft diameter. Additional keyseats or non-standard sizes can be manufactured per request.

Shaft Turn Downs (Stepped Shafts)
For larger shafting it is common to turn the shaft down for a more economical selection of bearings and drives. The turndown is generally less than 25% of the original diameter and the two different diameters should be joined with a generous and smooth fillet to reduce stress concentrations.

Conveyor Shafting should be selected to keep deflection to a minimum and maintain the integrity of the pulley assembly core. Call your Martin representative to properly select the shaft for your pulley and conveying needs.



_____ Major Shaft Diameter

_____ Shaft Diameter at Hub

_____ Shaft Diameter at Bearing

_____ Shaft Diameter at KS1

_____ Shaft Diameter at KS2

Keyseat 1 _____ × _____ × _____

Keyseat 2 _____ × _____ × _____

Direction of Rotation From Drive End _____

Lagging Thickness _____

Lagging Type _____

Take-Up Frames Cross Reference

A properly designed belt conveyor will require the use of a take-up device. This device will take up the stretch in the conveyor belt and keep proper tension at the drive pulley to reduce slippage. A dynamic type, like a gravity take-up, is generally preferred but not always practical due to space or cost. Martin Screw Take-Up Frames are a good solution for these applications. Martin offers several types of frames that accommodate most bearings, mounting positions, and travel. Martin Take-Up Frames are available in stock or made-to-order for all of your mechanical take-up needs.

Martin's Take-Up Frames are fabricated from steel, offering superior strength and durability in the most rugged conditions.

- Available in Top Angle, Heavy Duty, Center Pull, Wide Slot, Tube Take-Up & Light Duty
- Accommodate bearing shafts sizes from 1" to 5-15/16"
- Available in standard travel lengths from 9" to 60"
- Stainless Steel, ACME thread & MTO lengths available
- Suitable for most manufacturers' housing styles including center pull wide slot, pillow block and top angle protected screw

CROSS REFERENCE

Top Angle Take-Up Frames (MTA)

Martin	Dodge	Precision
MTA10	TP10	PTA200
MTA20	TP20	PTA203
MTA30	TP30	PTA208
MTA40	TP40	PTA300
MTA50	TP50	PTA308
MTA60	TP60	PTA400

Light Duty Take-Up Frames (MLD)

CCI	Dodge	Precision
MLD10	LD10	PMD-100
MLD20	LD20	PMD-108
MLD30	LD30	PMD-200
MLD40	LD40	PMD-208
MLD45	LD45	PMD-300
MLD50	LD50	PMD-308

Heavy Duty Take-Up Frames (MHD)

Martin	Dodge	Precision	Linkbelt	Browning	SKF
MHD200	HD200	PHD200	LHD20	T2000 A/B/C	TFT01
MHD250	HD250	PHD250	LHD25	T2000 D/E	TFT03, TFT43
MHD300	HD300	PHD300	LHD30	T2000 F/G	TFT04/5, TFT34/44
MHD350	HD350	PHD350	LHD35	T2000 H/J	TFT06, TFT46
MHD400	HD400	PHD400	LHD40	T2000 K	TFT37
MHD500	HD500	PHD500	LHD50	T2000 M/N	TFT38, TFT48

Center Pull Take-Up Frames (MCP)

Martin	Dodge	Precision	Rexnord	Browning
MCP308	CP308	PCP108	ZHT6	T1000D
MCP400	CP400	PCP200	ZHT7	T1000EL
MCP408	CP408	PCP203	ZHT7	T1000EH
MCP502	CP502	PCP208	ZHT8	T1000F
MCP515	CP515	PCP300	ZHT9	T1000GL, GH
MCP613	CP613	PCP308	ZHT10	T1000JL, JH
MCP810	CP810	PCP400	ZHT11	T1000K

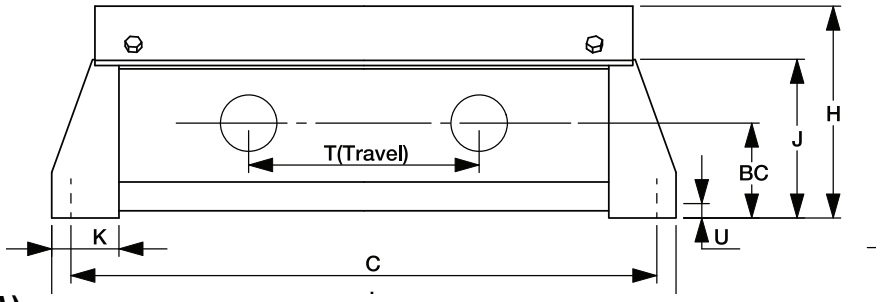
Wide Slot Take-Up Frames (MWS)

Martin	Dodge	Precision
MWS300	WS300	PWS100
MWS308	WS308	PWS108
MWS400	WS400	PWS200
MWS502	WS502	PWS208
MWS515	WS515	PWS300
MWS608	WS608	PWS308

Tube Take-Up Frames (MTTU)

Martin	Precision	Bryant	Link-Belt
MTTU10	PST100	100	100
MTTU25	PST250	250	250
MTTU30	PST300	300	300
MTTU35	PST350	350	-
MTTU40	PST400	400	400
MTTU50	PST500	500	-



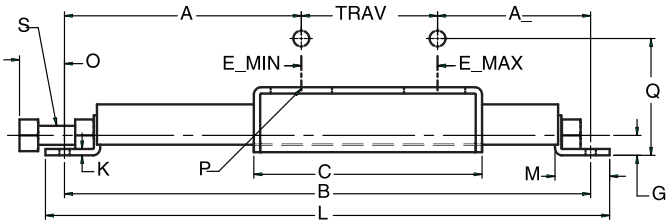


Top Angle Take-Up Frames (MTA)

Frame Size	Nominal Travel (T)	Part Number	Weight Lbs. Approx.	BC	C	H	J	K	L	U	2b	W
MTA10	12	MTA10-12	32	3-15/16	26-1/2	8-1/2	6-9/32	3	28-1/2	3/4	-	3-1/2
	18	MTA10-18	36		32-1/2				34-1/2			
	24	MTA10-24	40		38-1/2				40-1/2			
MTA20	12	MTA20-12	34	4-3/16	27-1/2	9-1/8	6-3/4	3	29-1/2	3/4	-	3-1/2
	18	MTA20-18	39		33-1/2				35-1/2			
	24	MTA20-24	43		39-1/2				41-1/2			
MTA30	12	MTA30-12	50	4-3/8	28-1/2	10-1/8	7-1/4	3-1/2	30-1/2	3/4	-	4
	18	MTA30-18	58		34-1/2				36-1/2			
	24	MTA30-24	66		40-1/2				42-1/2			
	30	MTA30-30	74		46-1/2				48-1/2			
	36	MTA30-36	82		52-1/2				54-1/2			
	48	MTA30-48	97		64-1/2				66-1/2			
MTA40	12	MTA40-12	56	4-15/16	30-1/2	11-1/16	8-3/32	3-1/2	32-1/2	3/4	2	4-1/2
	18	MTA40-18	63		36-1/2				38-1/2			
	24	MTA40-24	70		42-1/2				44-1/2			
	30	MTA40-30	77		48-1/2				50-1/2			
	36	MTA40-36	84		54-1/2				56-1/2			
	48	MTA40-48	98		66-1/2				68-1/2			
MTA50	12	MTA50-12	68	5-7/16	32	12-1/2	9-1/4	4	34-1/2	3/4	2	4-1/2
	18	MTA50-18	76		38				40-1/2			
	24	MTA50-24	84		44				46-1/2			
	30	MTA50-30	92		50				52-1/2			
	36	MTA50-36	100		56				58-1/2			
	48	MTA50-48	116		68				70-1/2			
MTA60	12	MTA60-12	96	7	36	14-1/4	11-3/32	4-1/2	38-1/2	3/4	2-1/2	5-1/2
	18	MTA60-18	106		42				44-1/2			
	24	MTA60-24	116		48				50-1/2			
	30	MTA60-30	126		54				56-1/2			
	36	MTA60-36	136		60				62-1/2			
	48	MTA60-48	156		72				74-1/2			

MTO Frames available upon request.

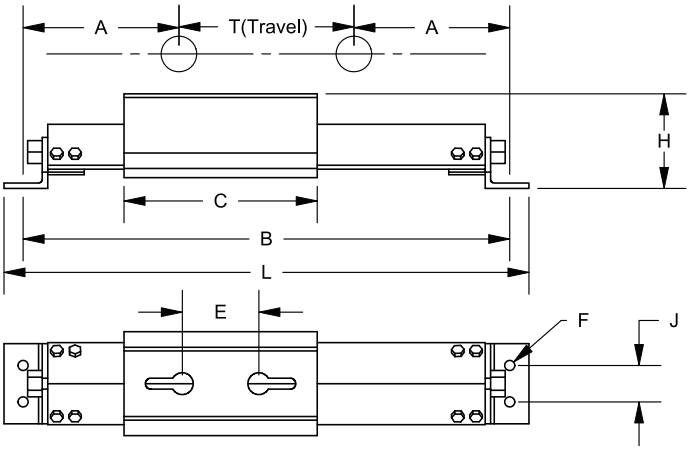
Take-Up Frames





Light Duty Take-Up Frames (MLD)

Frame Size	Nom. Travel	Part Number	Weight Lbs. Approx.	A	B	C	D	E		F	G	H	J	K	L	M	N	O	P	S	W	Angle Iron
								MIN	MAX													
MLD10	6	MLD10-6	10	4-7/8	18	6-5/8	3-1/2	2-7/8	4-3/8	3/8	1-1/16	2-3/4	2-1/2	1/4	19.5	2-1/8	1-1/8	1-5/8	3/8 x 1-1/2	3/4	3-1/2	2 x 2 x 1/4
	9	MLD10-9	11		20.5										22							
	12	MLD10-12	12		23.5										25							
	18	MLD10-18	15		29.5										31							
	30	MLD10-30	19		41.5										43							
	36	MLD10-36	22		47.5										49							
	42	MLD10-42	24		53.5										55							
	48	MLD10-48	26		59.5										61							
MLD20	6	MLD20-6	10	5-3/4	18	8-1/4	3-3/4	4-7/16	6-1/4	1/2	13/16	2-19/32	2-1/2	1/4	19.5	2-1/8	1-1/8	1-5/8	1/2 x 2-1/2	3/4	3-1/2	2 x 2 x 1/4
	9	MLD20-9	11		20.5										22							
	12	MLD20-12	13		23.5										25							
	18	MLD20-18	16		32										33.5							
	24	MLD20-24	18		38										39.5							
	30	MLD20-30	20		44										45.5							
	36	MLD20-36	24		50										51.5							
	42	MLD20-42	25		56										57.5							
	48	MLD20-48	27		62										63.5							
MLD30	12	MLD30-12	17	6-1/4	26.75	9	4	5-3/4	7	1/2	13/16	2-11/16	2-1/2	1/4	28.25	2-1/4	1-1/8	1-5/8	5/8 x 2-1/2	3/4	3-1/2	2 x 2 x 1/4
	18	MLD30-18	19		32.75										34.25							
	24	MLD30-24	22		38.75										40.25							
	30	MLD30-30	24		44.75										46.25							
	36	MLD30-36	26		50.75										52.25							
	42	MLD30-42	29		56.75										58.25							
	48	MLD30-48	31		62.75										64.25							
MLD40	12	MLD40-12	22	6-1/4	26.5	9-7/8	4-3/4	6-3/8	7-7/8	5/8	1-1/8	3-3/16	3	5/16	28.25	2-1/4	1-1/8	1-3/4	5/8 x 3	3/4	4-3/4	2-1/2 x 2-1/2 x 1/4
	18	MLD40-18	25		32.5										34.25							
	24	MLD40-24	28		38.5										40.25							
	30	MLD40-30	31		44.5										46.25							
	36	MLD40-36	34		50.5										52.25							
	42	MLD40-42	36		56.5										58.25							
	48	MLD40-48	39		62.5										64.25							
MLD45	12	MLD45-12	64	9-3/4	31.25	16-3/4	5-1/2	6	11-1/4	3/4	1-3/8	4-1/8	3	1/2	33.375	2-1/2	1-1/2	2-1/4	3/4 x 3-1/2	1	5-7/8	3 x 3 x 1/2
	18	MLD45-18	70		37.5										39.625							
	24	MLD45-24	76		43.5										45.625							
	30	MLD45-30	82		49.5										51.625							
	36	MLD45-36	87		55.5										57.625							
	42	MLD45-42	93		61.5										63.625							
	48	MLD45-48	99		67.5										69.625							
MLD50	6	MLD50-6	58	9-3/4	25.25	16-3/4	5-1/2	6	11-1/8	3/4	1-3/8	4-1/8	3	1/2	27.375	2-1/2	1-1/2	2-1/4	3/4 x 3-1/2	1	5-7/8	3 x 3 x 1/2
	12	MLD50-12	64		31.25										33.375							
	18	MLD50-18	70		37.5										39.625							
	24	MLD50-24	76		43.5										45.625							
	30	MLD50-30	81		49.5										51.625							
	36	MLD50-36	87		55.5										57.625							
	48	MLD50-48	99		67.5										69.625							





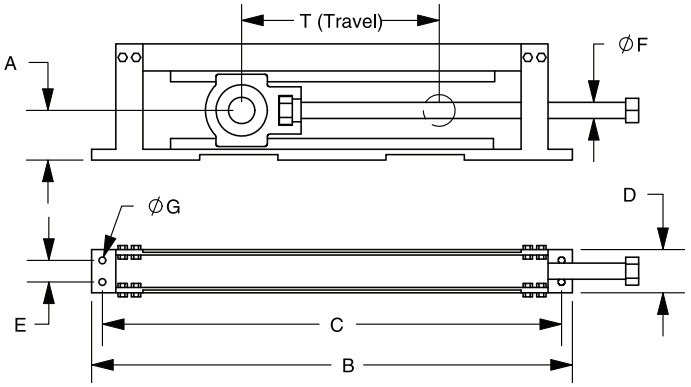
Heavy Duty Take-Up Frames (MHD)

Frame Size	Nominal Travel (T)	Part Number	Weight Lbs. Approx.	A	B	C	D	E	F	H	J	K	L	W
MHD200	12	MHD200-12	50	8-1/2	29	11	4	Drilled To Order	5/8	5-1/4	2-1/2	6-1/8	31	5
	18	MHD200-18	53		35								37	
	24	MHD200-24	56		41								43	
	30	MHD200-30	60		47								49	
	36	MHD200-36	64		53								55	
MHD250	12	MHD250-12	84	10-3/8	32 3/4	13-1/4	5	Drilled To Order	5/8	6-1/4	3	7-1/8	35-1/4	5-1/2
	18	MHD250-18	89		38 3/4								41-1/4	
	24	MHD250-24	95		44 3/4								47-1/4	
	30	MHD250-30	100		50 3/4								53-1/4	
	36	MHD250-36	106		56 3/4								59-1/4	
MHD300	12	MHD300-12	140	11-3/4	35 1/2	14-1/4	6	Drilled To Order	3/4	7	3	8-3/4	38-1/4	6-1/2
	18	MHD300-18	147		41 1/2								44-1/4	
	24	MHD300-24	155		47 1/2								50-1/4	
	30	MHD300-30	165		53 1/2								56-1/4	
	36	MHD300-36	175		59 1/2								62-1/4	
	42	MHD300-42	186		65 1/2								68-1/4	
	48	MHD300-48	196		71 1/2								74-1/4	
MHD350	12	MHD350-12	150	12-5/8	37 1/4	16	6	Drilled To Order	3/4	7	3	8-3/4	40	6-1/2
	18	MHD350-18	160		43 1/4								46	
	24	MHD350-24	170		49 1/4								52	
	30	MHD350-30	180		55 1/4								58	
	36	MHD350-36	190		61 1/4								64	
	42	MHD350-42	200		67 1/4								70	
	48	MHD350-48	210		73 1/4								76	
MHD400	12	MHD400-12	179	14-5/8	41 1/4	20	7	Drilled To Order	3/4	7	3	8-3/4	44	6-1/2
	18	MHD400-18	189		47 1/4								50	
	24	MHD400-24	199		53 1/4								56	
	30	MHD400-30	209		59 1/4								62	
	36	MHD400-36	219		65 1/4								68	
	42	MHD400-42	230		71 1/4								74	
	48	MHD400-48	240		77 1/4								80	
MHD500	12	MHD500-12	305	17-1/2	47	23-1/2	8-1/2	Drilled To Order	7/8	7-3/4	4	11-1/4	49-1/2	7
	18	MHD500-18	322		53								55-1/2	
	24	MHD500-24	340		59								61-1/2	
	30	MHD500-30	355		65								67-1/2	
	36	MHD500-36	370		71								73-1/2	
	42	MHD500-42	386		77								79-1/2	
	48	MHD500-48	401		83								85-1/2	

MTO Frames available upon request.

Take-Up Frames



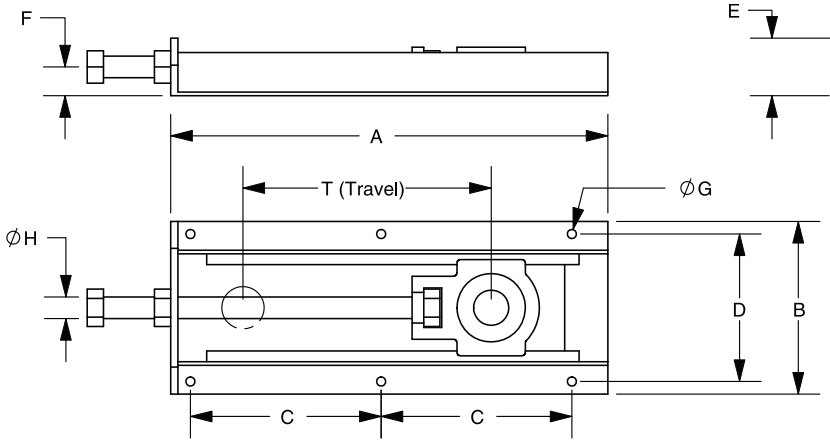


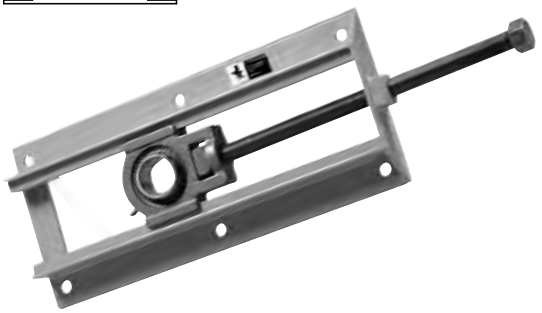
Center Pull Take-Up Frames (MCP)

Frame Size	Nominal Travel (T)	Part Number	Weight Lbs. Approx.	A	B	C	D	E	F	G	
										Qty	Dia
MCP308	12	MCP308-12	30	3-7/16	28	26	3	NA	3/4	2	1/2
	18	MCP308-18	36		34	32					
	24	MCP308-24	40		40	38					
	30	MCP308-30	45		46	44					
	36	MCP308-36	50		52	50					
MCP400	12	MCP400-12	57	3-15/16	29-1/2	27-1/2	4	NA	1	2	5/8
	18	MCP400-18	66		35-1/2	33-1/2					
	24	MCP400-24	75		41-1/2	39-1/2					
	30	MCP400-30	85		47-1/2	45-1/2					
	36	MCP400-36	93		53-1/2	51-1/2					
MCP408	12	MCP408-12	62	4-7/16	29-1/2	27-1/2	4	NA	1-1/8	2	5/8
	18	MCP408-18	71		35-1/2	33-1/2					
	24	MCP408-24	82		41-1/2	39-1/2					
	30	MCP408-30	91		47-1/2	45-1/2					
	36	MCP408-36	102		53-1/2	51-1/2					
MCP502	12	MCP502-12	68	4-3/8	30-1/2	28-1/2	4	NA	1-1/4	2	3/4
	18	MCP502-18	79		36-1/2	34-1/2					
	24	MCP502-24	89		42-1/2	40-1/2					
	30	MCP502-30	101		48-1/2	46-1/2					
	36	MCP502-36	110		54-1/2	52-1/2					
MCP515	12	MCP515-12	112	5-1/8	32-1/2	30-1/2	5	2	1-1/2	4	5/8
	18	MCP515-18	134		38-1/2	36-1/2					
	24	MCP515-24	152		44-1/2	42-1/2					
	30	MCP515-30	166		50-1/2	48-1/2					
	36	MCP515-36	186		56-1/2	54-1/2					
MCP613	12	MCP613-12	128	5-5/8	34-1/4	32	5	2	1-3/4	4	3/4
	18	MCP613-18	146		40-1/4	38					
	24	MCP613-24	165		46-1/4	44					
	30	MCP613-30	184		52-1/4	50					
	36	MCP613-36	202		58-1/4	56					
MCP810	12	MCP810-12	200	7	38-1/2	36	6	2-1/2	2	4	3/4
	18	MCP810-18	242		44-1/2	42					
	24	MCP810-24	252		50-1/2	48					
	30	MCP810-30	278		56-1/2	54					
	36	MCP810-36	304		62-1/2	60					

MTO Frames available upon request.

Take-Up Frames





Wide Slot Take-Up Frames (MWS)

Frame Size	Nominal Travel (T)	Part Number	Weight Lbs. Approx.	A	B	C	D	E	F	G		H
										Qty	Dia	
MWS 300	6	MWS300-6	7	12	6-9/16	4-15/16	5-9/16	1-3/4	1-1/16	6	7/16	5/8
	9	MWS300-9	8.5	15		6-7/16				6		
	12	MWS300-12	10	18		7-15/16				6		
	18	MWS300-18	13	24		10-15/16				6		
	24	MWS300-24	16	30		13-15/16				6		
MWS308	6	MWS308-6	9	12	7-1/16	9-7/16	6-1/16	2	1-1/4	4	7/16	3/4
	9	MWS308-9	10.5	15		6-1/4				6		
	12	MWS308-12	12	18		7-3/4				6		
	18	MWS308-18	15	24		10-3/4				6		
	24	MWS308-24	18	30		13-3/4				6		
MWS400	6	MWS400-6	14	13-3/4	8-13/16	11-1/2	7-5/16	2-1/4	1-7/16	4	1/2	1
	9	MWS400-9	16.5	16-3/4		7-1/4				6		
	12	MWS400-12	19	19-3/4		8-3/4				6		
	18	MWS400-18	24	25-3/4		11-3/4				6		
	24	MWS400-24	29	31-3/4		14-3/4				6		
	30	MWS400-30	34	37-3/4		17-3/4				6		
MWS502	6	MWS502-6	20	14-3/4	10-7/16	12-1/2	8 5/8	2-1/2	1-1/2	4	9/16	1-1/4
	9	MWS502-9	23.5	17-3/4		15-1/2				4		
	12	MWS502-12	27	20-3/4		9-1/4				6		
	18	MWS502-18	34	26-3/4		12-1/4				6		
	24	MWS502-24	41	32-3/4		15-1/4				6		
	30	MWS502-30	48	38-3/4		18-1/4				6		
MWS515	6	MWS515-6	31	17-7/8	12	14-1/2	10-1/4	3	2	4	5/8	1-1/2
	9	MWS515-9	36	20-7/8		17-1/2				4		
	12	MWS515-12	41	23-7/8		10-1/4				6		
	18	MWS515-18	51	29-7/8		13-1/4				6		
	24	MWS515-24	61	35-7/8		16-1/4				6		
	30	MWS515-30	71	41-7/8		19-1/4				6		
MWS608	6	MWS608-6	31	17-7/8	12-9/16	14-1/2	10-13/16	3	2	4	5/8	1-1/2
	9	MWS608-9	36	20-7/8		17-1/2				4		
	12	MWS608-12	41	23-7/8		10-1/4				6		
	18	MWS608-18	51	29-7/8		13-1/4				6		
	24	MWS608-24	61	35-7/8		16-1/4				6		
	30	MWS608-30	71	41-7/8		19-1/4				6		

MTO Frames available upon request.

Take-Up Frames



Tube Take-Up Frames (MTTU)

Frame Size	Stroke	Part Number	A	B	C	D	E Bolt	F	G	H	I	J Bolt	K	Tube Size Outer	Tube Size Inner	Threaded Rod
MTTU10	3	MTTU10-3	5-1/4	4-3/8	2-15/16	1-1/2	7/16	3-11/16	2-5/8	1-1/2	3-9/16	1/2	7/8	1-1/4	1	5/8—11
	6	MTTU10-6									7-1/16					
	9	MTTU10-9									11-1/16					
	12	MTTU10-12									14-1/16					
MTTU25	6	MTTU25-6	7	5-11/16	3-13/16	2	1/2	4	3	2	7-3/8	1/2	1-1/8	1-3/4	1-1/2	3/4—10
	9	MTTU25-9									10-3/8					
	12	MTTU25-12									13-3/8					
	18	MTTU25-18									19-3/8					
MTTU30	9	MTTU30-9	10	8-11/16	5-1/2	2-7/8	11/16	5-1/4	4	2-1/2	10-1/8	5/8	1-1/2	2-1/2	2-1/4	7/8—9
	12	MTTU30-12									14-1/8					
	18	MTTU30-18									21-1/8					
	24	MTTU30-24									27-1/8					
MTTU35	9	MTTU35-9	10	8-11/16	5-1/2	2-7/8	11/16	5-3/4	4-1/2	2-1/2	13	5/8	1-3/4	3	2-1/2	7/8—6 ACME
	12	MTTU35-12									16					
	18	MTTU35-18									22					
	24	MTTU35-24									28					
MTTU40	12	MTTU40-12	14	11-3/4	8-1/2	3-1/2	7/8	7-1/2	5-1/2	3-1/2	20	3/4	2-1/8	3-1/2	3	1-1/4—5 ACME
	18	MTTU40-18									26					
	24	MTTU40-24									32					
	36	MTTU40-36									44					
	48	MTTU40-48									56					
MTTU50	12	MTTU50-12	Made to Order Per Bearing Specification					11-1/2	9	5	25	1	3-1/2	6	5	2-1/4—4 ACME
	18	MTTU50-18									31					
	24	MTTU50-24									37					
	36	MTTU50-36									49					
	48	MTTU50-48									61					

MTO Frames available upon request.

Conveyor Pulley and Shaft Engineering

This information can be used for Martin pulleys with rigid end plate design. That includes the Standard Duty, Mine Duty, and Quarry Duty products that are designed using CEMA/ANSI standards. The foundation of that design is accomplished by designing around a maximum designated shaft deflection. Any questions in design should be run through Martin Engineering.

1. Calculate effective tension, T_e

$$T_e = \frac{HP \times 33{,}000}{FPM}$$

2. Calculate belt slack side tension, T_2

$$T_2 = K \times T_e$$

Table 1: K-factor

Single Drive	Auto TU		Manual/Screw TU	
Belt Wrap	Bare	Lagged	Bare	Lagged
180	0.84	0.5	1.2	0.8
190	0.77	0.46	1.1	0.8
200	0.72	0.42	1.1	0.7
210	0.67	0.38	1	0.7
220	0.62	0.35	0.9	0.6
230	0.58	0.33	0.9	0.6
240	0.54	0.3	0.8	0.6

3. Calculate belt tight side tension, T_1

$$T_1 = T_2 + T_e$$

4. Calculate resultant load for each non-drive pulley, R

$$R = T_2 \times \text{Wrap Factor}$$

Table 2: Non Drive Wrap Factor

Belt Wrap	Factor	Belt Wrap	Factor
10°	0.174	130°	1.813
15°	0.261	135°	1.848
20°	0.347	140°	1.879
25°	0.433	145°	1.907
30°	0.518	150°	1.932
35°	0.601	155°	1.953
40°	0.684	160°	1.97
45°	0.765	165°	1.983
50°	0.845	170°	1.992
55°	0.923	175°	1.998
60°	1	180°	2
65°	1.075	185°	1.998
70°	1.147	190°	1.992
75°	1.218	195°	1.983
80°	1.286	200°	1.97
85°	1.351	205°	1.953
90°	1.414	210°	1.932
95°	1.475	215°	1.907
100°	1.532	220°	1.879
105°	1.587	225°	1.848
110°	1.638	230°	1.813
115°	1.687	235°	1.774
120°	1.732	240°	1.732

5. Calculate resultant load for the drive pulley.
Divide T_1 by T_2 $\left(T_1/T_2\right)$ to look up in table 4:
Then calculate drive R:

$$R = T_2 \times \text{Factor}$$

6. Belt and Pulley width relationship
PW = BW + 2 (Belting < 48")
PW = BW + 3 (Belting ≥ 8")

7. Determine minimum shaft size by using Table 5. Subtract the face width from the bearing centers. Using the face width column go down and across from the proper bearing center minus face (interpolate if necessary) until a shaft load rating shows higher than the calculated resultant load from above.

8. Pulley diameters are recommended by the belt manufacturer and generally have greater impact on pulley diameter selection than the load itself. Table 3 is used to compare the recommended diameter from the belt manufacturer to the PIW ratings for standard duty pulleys.

Table 3: Pulley PIW Rating

Arc of Contact	Pulley Diameter (inches)													
	8	10	12	14	16	18	20	24	30	36	42	48	54	60
10	65	80	95	120	145	175	205	260	345	430	520	605	690	775
20	50	60	75	95	115	135	160	200	265	335	400	465	535	600
30	45	55	65	80	100	115	140	175	230	290	345	405	460	520
40	35	45	55	70	85	100	120	150	200	245	295	345	395	445
50	30	40	45	60	70	85	100	130	170	215	255	300	340	385
60	30	40	45	60	70	85	100	125	165	205	250	290	330	375
70	30	40	50	60	75	85	105	130	175	220	260	305	350	395
80	30	45	50	65	80	95	115	140	190	235	285	330	375	425
90	35	45	55	70	85	100	120	150	200	255	305	355	405	455
100	40	50	60	75	90	110	130	160	215	270	325	380	430	485
110	45	55	65	80	100	115	140	175	230	290	345	405	460	520
120	45	55	65	85	105	120	145	185	245	305	365	425	490	550
130	50	60	75	95	115	135	160	200	265	335	400	465	535	600
140	55	70	80	105	125	150	180	225	300	375	450	525	600	675
150	60	75	90	115	140	170	200	250	335	420	505	590	670	755
160	70	85	100	130	160	185	225	280	375	465	560	650	745	840
170	75	95	115	145	175	205	250	310	415	520	620	725	830	930
180	85	105	125	160	195	230	275	345	460	575	690	805	920	1035
190	75	95	115	145	175	205	250	310	415	520	620	725	930	930
200	70	85	100	130	160	185	225	280	375	465	560	650	745	840
210	60	75	90	115	140	170	200	250	335	420	505	590	670	755
220	55	70	80	105	125	150	180	225	300	375	450	525	600	675
230	50	60	75	95	115	135	160	200	265	335	400	465	535	600
240	45	55	65	85	105	120	145	185	245	305	365	425	490	550

Table 4: Resultant Load Factor, Drive Pulleys

T1/T2	Angle of Wrap												
	180	185	190	195	200	205	210	215	220	225	230	235	240
1.8	2.8	2.798	2.79	2.778	2.761	2.739	2.713	2.681	2.645	2.605	2.56	2.511	2.458
2	3	2.998	2.99	2.977	2.96	2.937	2.909	2.887	2.84	2.798	2.752	2.701	2.646
2.2	3.2	3.197	3.19	3.177	3.158	3.135	3.107	3.073	3.035	2.992	2.944	2.892	2.836
2.4	3.4	3.394	3.389	3.376	3.357	3.333	3.304	3.27	3.231	3.187	3.138	3.085	3.027
2.6	3.6	3.597	3.589	3.575	3.556	3.532	3.502	3.467	3.427	3.382	3.332	3.278	3.219
2.8	3.8	3.797	3.789	3.775	3.755	3.73	3.7	3.664	3.624	3.578	3.527	3.472	3.412
3	4	3.997	3.989	3.974	3.955	3.929	3.898	3.862	3.821	3.774	3.723	3.667	3.606
3.2	4.2	4.197	4.188	4.174	4.154	4.128	4.097	4.06	4.018	3.971	3.919	3.862	3.8
3.4	4.4	4.397	4.388	4.374	4.353	4.327	4.295	4.258	4.215	4.168	4.115	4.057	3.995
3.6	4.6	4.597	4.588	4.573	4.553	4.526	4.494	4.456	4.413	4.365	4.312	4.253	4.191
3.8	4.8	4.797	4.788	4.773	4.752	4.725	4.693	4.655	4.611	4.562	4.509	4.45	4.387
4	5	4.997	4.988	4.973	4.952	4.925	4.892	4.853	4.809	4.76	4.706	4.647	4.583
4.2	5.2	5.197	5.188	5.172	5.151	5.124	5.091	5.052	5.008	4.958	4.903	4.844	4.779
4.4	5.4	5.397	5.388	5.372	5.351	5.323	5.29	5.251	5.206	5.156	5.101	5.041	4.976

Conveyor Pulley and Shaft Engineering

Table 5: Allowable Shaft Loads (pounds) for Pulleys

Shaft Diameter	Bearing Centers Minus Face	Pulley Face Width (inches)													
		12	14	16	18	20	22	26	32	38	44	51	57	63	66
1-3/16	2	1000	920	780	670	590	530	440	350	290	240	210	180	170	160
	6	570	520	440	380	340	300	250	200	160	140	120	100	94	90
	10	400	370	310	270	230	210	170	140	110	96	82	73	66	63
	14	300	280	240	200	180	160	130	110	87	74	63	56	51	48
1-7/16	3	1500		1400	1200	1100	950	790	620	510	440	370	330	300	290
	6	1000		950	820	720	640	530	420	350	300	250	220	200	190
	10	700		660	570	500	450	370	290	240	210	180	160	140	130
	14	540		510	440	390	350	290	230	190	160	140	120	110	100
1-11/16	3	2400			2300	2000	1800	1500	1200	980	830	710	630	570	540
	6	1600			1600	1400	1200	1000	800	660	560	480	430	380	370
	10	1100			1100	960	850	700	560	460	390	340	300	270	260
	16	780			750	660	590	490	380	320	270	230	210	180	180
1-15/16	3	3700				3500	3100	2600	2100	1700	1400	1200	1100	990	940
	6	2500				2400	2100	1800	1400	1100	980	840	740	670	640
	10	1700				1700	1500	1200	970	800	680	580	520	470	440
	16	1200				1100	1000	840	670	550	470	400	360	320	310
2 -3/16	3	5300					5100	4200	3300	2800	2400	2000	1800	1600	1500
	8	2900					2800	2300	1900	1500	1300	1100	990	890	850
	12	2200					2100	1700	1400	1100	970	820	730	660	630
	18	1500					1500	1200	980	810	690	590	530	470	450
2 -7/16	4	6300						5600	4400	3700	3100	2700	2400	2100	2000
	8	4000						3600	2900	2400	2000	1700	1500	1400	1300
	12	3000						2700	2100	1700	1500	1300	1100	1000	970
	18	2100						1900	1500	1300	1100	910	810	730	690
2-11/16	4	8100							6400	5300	4500	3800	3400	3100	2900
	8	5300							4200	3400	2900	2500	2200	2000	1900
	12	3900							3100	2600	2200	1900	1600	1500	1400
	18	2800							2200	1800	1600	1300	1200	1100	1000
2-15/16	4	10600							9100	7500	6400	5500	4900	4400	4200
	8	6900							6000	4900	4200	3600	3200	2900	2700
	14	4600							3900	3200	2800	2300	2100	1900	1800
	20	3400							2900	2400	2000	1700	1600	1400	1300
3 -7/16	6	11600								10100	8500	7200	6400	5700	5500
	10	8500								7400	6300	5300	4700	4200	4000
	14	6700								5800	4900	4200	3700	3300	3200
	20	5100								4400	3800	3200	2800	2500	2400
3-15/16	6	16700									14200	12000	10600	9500	9000
	10	12400									10600	8900	7900	7100	6700
	14	9800									8400	7100	6300	5600	5300
	20	7500									6400	5400	4800	4300	4100
4 -7/16	8	19600									19100	16100	14200	12700	12100
	12	15300									14800	12500	11100	9900	9400
	16	12500									12100	10300	9100	8100	7700
	22	9800									9500	8100	7100	6400	6000
4-15/16	8	25200										23600	20800	18500	17600
	12	19900										18600	16400	14600	13900
	16	16400										15400	13500	12100	11500
	22	13000										12200	10700	9600	9100
5 -7/16	10	26600											25100	22300	21100
	14	22000											20700	18400	17500
	18	18700											17700	15700	14900
	24	15300											14500	12800	12200
6	10	35700												33100	31300
	14	29500												27300	25900
	18	25100												23300	22100
	24	20600												19000	19000
6-1/2	12	39200													38000
	16	33200													32100
	20	28800													27800
	26	24000													23200
7	12	49000													
	16	41400													
	20	35900													
	26	29900													
7-1/2	14	54100													
	18	46500													
	22	40800													
	28	34400													

Based on SAE 1018 shaft material, using either a maximum shaft bending stress of 8000 psi induced by resultant load (no torque), or a maximum free shaft deflection slope at the hub of 0.0023 inches per inch (tangent of 8 minutes), whichever governs.

Belt Conveyor Data Sheet

Date: _____ By: _____

Company Name: _____

Contact: _____

Conveyor ID: _____ Project: _____

Required Capacity: _____ TPH

Length: _____ ft.

Lift: _____ ft. or angle of incline

Material Conveyed: _____ Density: _____ lb/cu.ft. Repose Angle: _____

Belt Speed: _____

Belt Width: _____

Belt Construction: _____

Carrying Idler Angle: _____ Spacing: _____ Return Spacing: _____

Number of Plows: _____

Number of Scrapers: _____

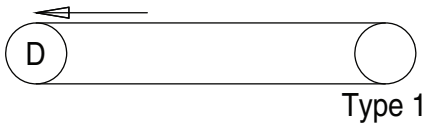
Skirtboard Length: _____ Height of Material on Skirtboard: _____

Horsepower: _____

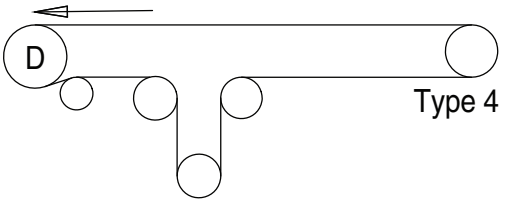
Soft Start Type: _____ (electronic, fluid, etc.)

Bearing Centers: _____ inches

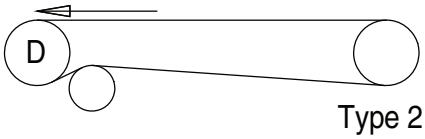
Conveyor Type: _____ (See Diagrams)



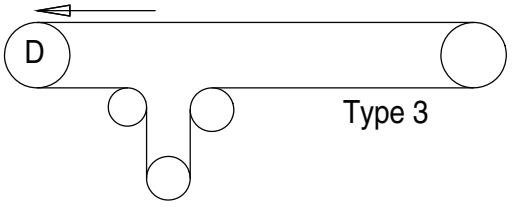
Type 1



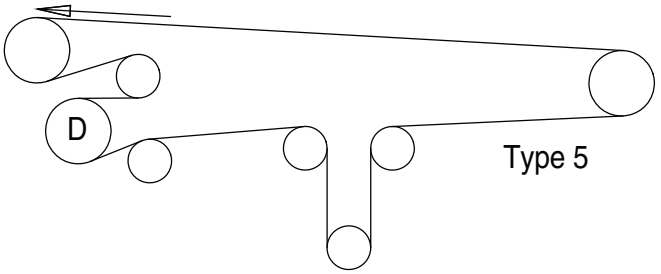
Type 4



Type 2



Type 3



Type 5

HD Pulley Data Sheet

Salesperson: _____ Date: _____

Customer: _____ Contact: _____

Address: _____

Phone: _____ E-Mail: _____

Pulley Tag/Callout: _____ Quantity: _____

1. Type of Pulley: Drum Wing
2. Crown or Flat Face: Crown Flat
3. Duty of Pulley: Standard Mine Quarry Quarry AR (Wing) Engineered
4. Diameter (inches): 4 6 8 10 12 14 16 18 20 24 30 36
   42 48 Other_____
5. Face Width (inches): 12 14 16 20 26 32 38 44 51 57 63 75
   Other_____ (Standard face is belt width +2" up to and including 42" belt and belt width +3" above 42")
6. Hub Style: MXT QD TL MHE Keyless Locker _____
7. Pulley Bushing Bore: _____
8. Lagging (Drum): Vulcanized SBR (select thickness and pattern below)
   Thickness (inches): 1/4 3/8 1/2 3/4 1 _____
   Pattern: Smooth Herringbone Diamond _____
   * If used underground please specify MSHA and call for assistance.
   * If used in a grain handling application and/or explosive air born particulate application specify SOF and call for assistance.

   Weld On Replaceable
   Urethane
   Ceramic Cold Bond Vulcanized
9. Lagging (Wing): Slide on Replaceable Weld on (with tabs)
   Vulcanized SBR Urethane
10. Shafting (Basic): Diameter_____ × Length_____ Bearing Centers: _____
    Drive Side Extension Right Hand Left Hand
11. Shafting (More Detail - A sketch or drawing may be required before manufacturing)
    _____ Major Shaft Diameter (inside pulley) _____ Shaft Diameter at Drive
    _____ Shaft Diameter at Bushing _____ Drive Key Length
    _____ Shaft Diameter at Bearing _____ Drive Key Details
12. Bearing and Drive Information Include with Quote For Information Only

    _____

    _____
13. Notes: _____

    _____

GENERAL ENGINEERING INFORMATION

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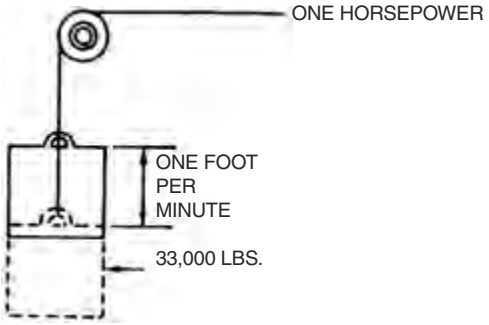
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Horsepower/Torque

Horsepower

One HP is the rate of work required to raise 33,000 pounds one foot in one minute.



$$HP = \frac{Force \times FPM}{33{,}000}$$

$$HP = \frac{Torque\ (in\ Pound\text{-}Inches) \times RPM}{63{,}025}$$

$$HP = \frac{Torque\ (in\ Pound\text{-}Feet) \times RPM}{5{,}252}$$

Torque: The twisting or turning effort around a shaft tending to cause rotation. Torque is determined by multiplying the applied force times the distance from the point where force is applied to the shaft center.

TQ = F (force) × R (radius)

$$\text{Torque (in Pound-Inches)} = \frac{63{,}025 \times HP}{RPM}$$

= Force × Lever Arm (in Inches)

$$\text{Torque (in Pound-Feet)} = \frac{5{,}252 \times HP}{RPM}$$

= Force × Lever Arm (in Feet)

Torque Calculation Example

20 HP at 100 RPM = 12,605 Pound-Inches Torque

2.0 HP at 10 RPM = 12,605 Pound-Inches Torque

Force = Working Loads in Pounds
FPM = Feet per Minute
RPM = Revolutions per Minute
Lever Arm = Distance from the Force to the center of rotation on Inches or Feet

Overhung Loads

An overhung load is a bending force imposed on a shaft due to the torque transmitted by V-drives, chain drives, and other power transmission devices, other than flexible couplings.

Most motor and reducer manufacturers list the maximum values allowable for overhung loads. It is desirable that these figures be compared with the load actually imposed by the connected drive.

Overhung loads may be calculated as follows:

$$O.H.L. = \frac{63{,}000 \times HP \times F}{N \times R}$$

Where: HP = Transmitted HP × Service Factor
N = RPM of shaft
R = Radius of sprocket, pulley, etc.
F = Factor

Weights of the drive components are usually negligible. The formula is based on the assumption that the load is applied at a point equal to one shaft diameter from the bearing face. Factor F depends on the type of drive used:

F = 1.00 for single chain drives
1.10 for TIMING belt drives
1.25 for spur or helical gear or double chain drives
1.50 for V-belt drives
2.50 for flat belt drives

Example: Find the overhung load imposed on a reducer by a double chain drive transmitting 7 HP @ 30 RPM. The pitch diameter of the sprocket is 10"; service factor is 1.3.

Solution:

$$O.H.L = \frac{(63{,}000)(7 \times 1.3)\ (1.25)}{(30)\qquad(5)} = 4{,}780 \text{ lbs.}$$

Horsepower/Speed/Torque Relationships

HP	Speed (RPM)	Torque
Constant	Increases	Decreases
Constant	Decreases	Increases
Increases	Constant	Increases
Decreases	Constant	Decreases
Increases	Increases	Constant
Decreases	Decreases	Constant

Torque (in Pound-Inches) For Horsepower/RPM

Torque for 1-50 HP @ 50-220 RPM

HP	Revolutions per Minute																	
	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
1	1261	1050	900	788	700	630	573	525	485	450	420	394	371	350	332	315	300	286
2	2521	2101	1801	1576	1401	1260	1145	1050	969	900	840	787	741	700	663	630	600	572
3	3782	3151	2701	2363	2101	1890	1718	1575	1454	1350	1260	1181	1112	1050	995	945	900	859
4	5042	4202	3601	3151	2801	2521	2291	2100	1939	1800	1680	1575	1482	1400	1326	1260	1200	1145
5	6303	5252	4502	3939	3501	3151	2864	2626	2424	2250	2100	1969	1853	1750	1658	1575	1500	1432
6	7563	6303	5402	4727	4202	3781	3437	3151	2908	2701	2521	2363	2224	2100	1990	1890	1800	1718
7	8824	7353	6302	5515	4902	4411	4010	3676	3393	3151	2941	2757	2595	2450	2321	2205	2100	2005
8	10084	8403	7203	6303	5602	5042	4583	4201	3878	3601	3361	3151	2965	2801	2653	2521	2400	2291
9	11345	9454	8103	7090	6303	5672	5156	4726	4363	4051	3781	3545	3336	3151	2985	2836	2701	2578
10	12605	10504	9004	7878	7003	6302	5729	5252	4848	4501	4201	3939	3707	3501	3317	3151	3001	2864
11	13866	11555	9904	8666	7703	6932	6302	5777	5332	4951	4621	4332	4078	3851	3648	3466	3301	3151
12	15126	12605	10804	9454	8403	7563	6875	6302	5817	5402	5042	4726	4448	4201	3980	3781	3601	3437
13	16387	13655	11705	10242	9104	8193	7448	6827	6302	5852	5462	5120	4819	4551	4312	4096	3901	3724
14	17647	14706	12605	11029	9804	8823	8021	7352	6787	6302	5882	5514	5190	4901	4643	4411	4201	4010
15	18908	15756	13505	11817	10504	9453	8594	7878	7272	6752	6302	5908	5561	5252	4975	4726	4501	4297
16	20168	16807	14406	12605	11204	10084	9167	8403	7756	7202	6722	6302	5931	5602	5307	5042	4801	4583
17	21429	17857	15306	13393	11905	10714	9740	8928	8241	7653	7142	6696	6302	5952	5639	5357	5102	4870
18	22689	18908	16206	14181	12605	11344	10313	9453	8726	8103	7563	7090	6673	6302	5970	5672	5402	5156
19	23950	19958	17107	14968	13305	11974	10886	9979	9211	8553	7983	7484	7044	6652	6302	5987	5702	5443
20	25210	21008	18007	15756	14006	12605	11459	10504	9696	9003	8403	7878	7414	7002	6634	6302	6002	5729
21	26471	22059	18907	16544	14706	13235	12032	11029	10181	9453	8823	8272	7785	7352	6965	6617	6302	6016
22	27731	23109	19808	17332	15406	13865	12605	11554	10665	9903	9243	8665	8156	7703	7297	6932	6602	6302
23	28992	24160	20708	18120	16106	14495	13178	12079	11150	10354	9663	9059	8526	8053	7629	7247	6902	6588
24	30252	25210	21609	18908	16807	15126	13750	12605	11635	10804	10084	9453	8897	8403	7961	7563	7202	6875
25	31513	26260	22509	19695	17507	15756	14323	13130	12120	11254	10504	9847	9268	8753	8292	7878	7503	7161
26	32773	27311	23409	20483	18207	16386	14896	13655	12605	11704	10924	10241	9639	9103	8624	8193	7803	7448
27	34034	28361	24310	21271	18908	17016	15469	14180	13089	12154	11344	10635	10009	9453	8956	8508	8103	7734
28	35294	29412	25210	22059	19608	17647	16042	14705	13574	12605	11764	11029	10380	9803	9287	8823	8403	8021
29	36555	30462	26110	22847	20308	18277	16615	15231	14059	13055	12184	11423	10751	10154	9619	9138	8703	8307
30	37815	31513	27011	23634	21008	18907	17188	15756	14544	13505	12605	11817	11122	10504	9951	9453	9003	8594
31	39076	32563	27911	24422	21709	19537	17761	16281	15029	13955	13025	12211	11492	10854	10283	9768	9303	8880
32	40336	33613	28811	25210	22409	20168	18334	16806	15513	14405	13445	12605	11863	11204	10614	10084	9603	9167
33	41597	34664	29712	25998	23109	20798	18907	17331	15998	14855	13865	12998	12234	11554	10946	10399	9903	9453
34	42857	35714	30612	26786	23809	21428	19480	17857	16483	15306	14285	13392	12605	11904	11278	10714	10204	9740
35	44118	36767	31512	27573	24510	22058	20053	18382	16968	15756	14705	13786	12975	12254	11609	11029	10504	10026
36	45378	37815	32413	28361	25210	22689	20626	18907	17453	16206	15126	14180	13346	12605	11941	11344	10804	10313
37	46639	38865	33313	29149	25910	23319	21199	19432	17937	16656	15546	14574	13717	12955	12273	11659	11104	10599
38	47889	39916	34214	29937	26611	23949	21772	19958	18422	17106	15966	14968	14088	13305	12605	11974	11404	10886
39	49160	40996	35114	30725	27311	24579	22345	20483	18907	17557	16386	15362	14458	13655	12936	12289	11704	11172
40	50420	42017	36014	31513	28011	25210	22918	21008	19392	18007	16806	15756	14829	14005	13268	12605	12004	11459
41	51681	43067	36915	32300	28711	25840	23491	21533	19877	18457	17226	16150	15200	14355	13600	12920	12304	11745
42	52941	44118	37815	33088	29412	26470	24064	22058	20362	18907	17647	16544	15570	14705	13931	13235	12605	12032
43	54202	45168	38715	33876	30112	27100	24637	22584	20846	19357	18067	16938	15941	15056	14263	13550	12905	12318
44	55462	46218	39616	34664	30812	27731	25210	23109	21331	19807	18487	17331	16312	15406	14595	13865	13205	12605
45	56723	47269	40516	35452	31513	28361	25783	23634	21816	20258	18907	17725	16683	15756	14927	14180	13505	12891
46	57383	48319	41416	36239	32213	28991	26356	24159	22301	20708	19327	18119	17053	16106	15258	14495	13805	13177
47	59244	49370	42317	37027	32913	29621	26928	24684	22786	21158	19747	18513	17424	16456	15590	14810	14105	13464
48	60504	50420	43217	37815	33613	30252	27501	25210	23270	21608	20168	18907	17795	16806	14922	15126	14405	13750
49	61764	51470	44117	38603	34314	30882	28074	25735	23755	22058	20588	19301	18166	17156	16253	15441	14705	14037
50	63025	52521	45018	39319	35014	31512	28647	26260	24240	22509	21008	19695	18536	17507	16585	15756	15006	14323

Torque (in Pound-Inches) For Horsepower/RPM

Torque for 1-50 HP @ 230-1000 RPM

HP	Revolutions per Minute																		
	230	240	250	260	270	280	290	300	350	400	450	500	550	600	650	700	800	900	1000
1	274	263	252	242	233	225	217	210	180	157	140	126	114	105	96	90	78	70	63
2	548	525	504	484	466	450	434	420	360	315	280	252	229	210	193	180	157	140	126
3	822	787	756	727	700	675	651	630	540	472	420	378	343	315	290	270	236	210	189
4	1096	1050	1008	969	933	900	869	840	720	630	560	504	458	420	387	360	315	280	252
5	1370	1313	1260	1212	1167	1125	1087	1050	900	787	700	630	572	525	484	450	393	350	315
6	1644	1575	1512	1454	1401	1350	1303	1260	1080	945	840	756	687	630	581	540	472	420	378
7	1918	1838	1764	1696	1633	1575	1521	1470	1260	1102	980	882	802	735	678	630	551	490	441
8	2192	2100	2016	1939	1867	1800	1738	1680	1440	1260	1120	1008	916	840	775	720	630	560	504
9	2466	2363	2268	2181	2100	2025	1955	1890	1620	1418	1260	1134	1031	945	872	810	709	630	567
10	2740	2626	2521	2424	2334	2250	2173	2100	1800	1575	1400	1260	1145	1050	969	900	787	700	630
11	3014	2888	2773	2666	2567	2475	2390	2310	1980	1733	1540	1386	1260	1155	1066	990	866	770	693
12	3288	3151	3025	2908	2801	2701	2607	2521	2160	1890	1680	1512	1375	1260	1163	1080	945	840	756
13	3562	3413	3277	3151	3034	2926	2825	2731	2340	2048	1820	1638	1489	1365	1260	1170	1024	910	819
14	3836	3676	3529	3393	3267	3151	3042	2941	2521	2205	1960	1764	1604	1470	1357	1260	1102	980	882
15	4110	3939	3781	3636	3501	3376	3259	3151	2701	2363	2100	1890	1718	1575	1454	1350	1181	1050	945
16	4384	4201	4033	3878	3734	3601	3477	3361	2881	2521	2240	2016	1833	1680	1551	1440	1260	1120	1008
17	4658	4464	4285	4120	3968	3826	3694	3571	3061	2678	2380	2142	1948	1785	1648	1530	1339	1190	1071
18	4932	4726	4537	4363	4201	4051	3911	3781	3241	2836	2521	2268	2062	1890	1745	1620	1418	1260	1134
19	5206	4989	4789	4605	4435	4276	4129	3991	3421	2993	2661	2394	2177	1995	1842	1710	1496	1330	1197
20	5480	5252	5042	4848	4668	4501	4346	4201	3601	3151	2801	2521	2291	2100	1939	1800	1575	1400	1260
21	5754	5514	5294	5090	4901	4726	4563	4411	3781	3308	2941	2647	2406	2205	2036	1890	1654	1470	1323
22	6028	5777	5546	5332	5135	4951	4781	4621	3961	3466	3081	2773	2521	2310	2133	1980	1733	1540	1386
23	6302	6039	5798	5575	5368	5177	4998	4831	4141	3623	3221	2899	2635	2415	2230	2070	1811	1610	1449
24	6576	6302	6050	5817	5602	5402	5215	5042	4321	3781	3361	3025	2750	2521	2327	2160	1890	1680	1512
25	6850	6565	6302	6060	5835	5627	5433	5252	4501	3939	3501	3151	2864	2626	2424	2250	1969	1750	1575
26	7124	6827	6554	6302	6069	5852	5650	5462	4681	4096	3641	3277	2979	2731	2521	2340	2048	1820	1638
27	7398	7090	6806	6544	6302	6077	5867	5672	4861	4254	3781	3403	3093	2836	2617	2430	2127	1890	1701
28	7672	7352	7058	6787	6535	6302	6085	5882	5042	4411	3921	3529	3208	2941	2714	2521	2205	1960	1764
29	7946	7615	7310	7029	6769	6527	6302	6092	5222	4569	4061	3655	3323	3046	2811	2611	2284	2030	1827
30	8220	7878	7563	7272	7002	6752	6519	6302	5402	4726	4201	3781	3437	3151	2908	2701	2363	2100	1890
31	8494	8140	7815	7514	7236	6977	6737	6512	5582	4884	4341	3907	3552	3256	3005	2791	2442	2170	1953
32	8768	8403	8067	7756	7469	7202	6954	6722	5762	5042	4481	4033	3666	3361	3102	2881	2520	2240	2016
33	9042	8665	8319	7999	7703	7427	7171	6932	5942	5199	4621	4159	3781	3466	3199	2971	2599	2310	2079
34	9316	8928	8571	8241	7936	7653	7389	7142	6122	5357	4761	4285	3896	3571	3296	3061	2678	2380	2142
35	9590	9191	8823	8484	8169	7878	7606	7352	6302	5514	4901	4411	4010	3676	3393	3151	2757	2450	2205
36	9864	9453	9075	8726	8403	8103	7823	7563	6482	5672	5042	4537	4125	3781	3490	3241	2836	2521	2268
37	10138	9716	9327	8968	8636	8328	8041	7773	6662	5829	5182	4663	4239	3886	3587	3331	2913	2591	2331
38	10412	9978	9579	9211	8870	8553	8258	7983	6842	5987	5322	4789	4354	3991	3684	3421	2993	2661	2394
39	10686	10241	9831	9453	9103	8778	8475	8193	7022	6144	5462	4915	4469	4096	3781	3511	3072	2731	2457
40	10960	10504	10084	9696	9337	9003	8693	8403	7202	6302	5602	5042	4583	4201	3878	3601	3151	2801	2521
41	11234	10766	10336	9938	9570	9228	8910	8613	7382	6460	5742	5168	4698	4306	3975	3691	3230	2871	2584
42	11508	11029	10588	10181	9803	9453	9127	8823	7563	6617	5882	5294	4812	4411	4072	3781	3308	2941	2647
43	11782	11292	10840	10423	10037	9678	9345	9033	7743	6775	6022	5420	4927	4516	4169	3871	3387	3011	2710
44	12057	11554	11092	10665	10270	9903	9562	9243	7923	6932	6162	5546	5042	4621	4266	3961	3466	3081	2773
45	12331	11817	11344	10908	10504	10129	9779	9453	8103	7090	6302	5672	5156	4726	4363	4051	3545	3151	2836
46	12605	12079	11596	11150	10737	10354	9997	9963	8283	7247	6442	5798	5271	4831	4460	4141	3623	3221	2899
47	12879	12342	11848	11393	10971	10579	10214	9873	8463	7405	6582	5924	5385	4936	4557	4231	3702	3291	2962
48	13153	12605	12100	11635	11204	10804	10431	10084	8643	7563	6722	6050	5500	5042	4654	4321	3781	3361	3025
49	13427	12867	12352	11877	11437	11029	10649	10294	8823	7720	6862	6176	5614	5147	4751	4411	3860	3431	3088
50	13701	13130	12605	12120	11671	11254	10866	10504	9003	7878	7002	6302	5729	5252	4848	4501	3939	3501	3151

Torque (in Pound-Inches) For Horsepower/RPM

Torque for 51-100 HP @ 50-220 RPM

	Revolutions per Minute																	
HP	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
51	64286	53571	45918	40178	35714	32142	29220	26785	24725	22959	21428	20089	18907	17857	16917	16071	15306	14610
52	65546	54622	46819	40966	36414	32773	29793	27310	25210	23409	21848	20483	19278	18207	17249	16386	15606	14896
53	66807	55672	47719	41754	37115	33403	30366	27836	25694	23859	22268	20877	19649	18557	17580	16701	15906	15183
54	68067	56723	48619	42542	37815	34033	30939	28361	26179	24309	22689	21271	20019	18907	17912	17016	16206	15469
55	69328	57773	49520	43330	38515	34663	31512	28886	26664	24760	23109	21664	20390	19257	18244	17331	16506	15756
56	70588	58823	50420	44118	39216	35294	32085	29411	27149	25210	23529	22058	20761	19607	18575	17647	16806	16042
57	71849	59874	51320	44905	39916	35924	32658	29937	27634	25660	23950	22452	21132	19957	18907	17962	17106	16329
58	73109	60924	52221	45693	40616	36554	33231	30462	28118	26110	24370	22846	21502	20308	19239	18277	17406	16615
59	74370	61975	53121	46481	41316	37184	33804	30987	28603	26560	24790	23240	21873	20658	19571	18592	17707	16902
60	75630	63025	54021	47269	42017	37815	34377	31512	29088	27010	25210	23634	22244	21008	19902	18907	18007	17188
61	76891	64075	54922	48057	42717	38445	34950	32037	29573	27461	25630	24028	22614	21358	20234	19222	18307	17475
62	78151	65126	55822	48844	43417	39075	35523	32563	30058	27911	26050	24422	22985	21708	20566	19537	18607	17761
63	79412	66176	56722	49632	44118	39705	36096	33088	30543	28361	26470	24816	23356	22058	20897	19852	18907	18048
64	80672	67227	57623	50420	44818	40336	36669	33613	31027	28811	26890	25210	23727	22408	21229	20168	19207	18334
65	81933	68277	58523	51208	45518	40966	37242	34138	31512	29261	27310	25604	24097	22759	21561	20483	19507	18621
66	83193	69328	59423	51996	46218	41596	37815	34663	31997	29711	27731	25997	24468	23109	21892	20798	19807	18907
67	84454	70378	60324	52783	46919	42226	38388	35189	32482	30162	28151	26391	24839	23459	22224	21113	20108	19194
68	85714	71428	61224	53571	47619	42857	38961	35714	32967	30612	28571	26785	25210	23809	22556	21428	20408	19480
69	86975	72479	72125	54359	48319	43487	39534	36239	33451	31062	28991	27179	25580	24159	22888	21743	20708	19766
70	88235	73529	63025	55147	49019	44117	40106	36764	33936	31512	29411	27573	25951	24509	23219	22058	21008	20053
71	89496	74580	63925	55935	49720	44747	40679	37289	34421	31962	29831	27967	26322	24859	23551	22373	21308	20339
72	90756	75630	64826	56723	50420	45378	41252	37815	34906	32413	30252	28361	26693	25210	23883	22689	21608	20626
73	92017	76680	65726	57510	51120	46008	41825	38340	35391	32863	30672	28755	27063	25560	24214	23004	21908	20912
74	93277	77731	66626	58298	51821	46638	42398	38865	35875	33313	31092	29149	27434	25910	24546	23319	22208	21199
75	94538	78781	67527	59086	52521	47268	42971	39390	36360	33763	31512	29543	27805	26260	24878	23634	22509	21485
76	95798	79832	68427	59874	53221	47899	43544	39916	36845	34213	31932	29937	28176	26610	25210	23949	22809	21772
77	97059	80882	69327	60662	53921	48529	44117	40441	37330	34663	32353	30330	28546	26960	25541	24264	23109	22058
78	98319	81933	70228	61449	54622	49159	44690	40966	37815	35114	32773	30724	28917	27310	25873	24579	23409	22345
79	99580	82983	71128	62237	55322	49789	45263	41491	38299	35564	33193	31118	29288	27661	26205	24894	23709	22631
80	100804	84033	72029	63024	56022	50420	45836	42016	38784	36014	33613	31512	29658	28011	26536	25210	24009	22918
81	102101	85084	72929	63813	56722	51050	46409	42542	39269	36464	34033	31906	30029	28361	26868	25525	24309	23204
82	103361	86134	73829	64601	57423	51680	46982	43067	39754	36914	34453	32300	30400	28711	27200	25840	24609	23491
83	104622	87185	74730	65388	58123	52310	47555	43592	40239	37365	34874	32694	30771	29061	27532	26155	24909	23777
84	105882	88235	75630	66176	58823	52941	48128	44117	40724	37815	35294	33088	31141	29411	27863	26470	25210	24064
85	107143	89285	76530	66964	59524	53571	48701	44642	41208	38265	35714	33482	31512	29761	28195	26785	25510	24350
86	108403	90336	77430	67752	60224	54201	49274	45168	41693	38715	36134	33876	31883	30112	28527	27100	25810	24637
87	109664	91386	78331	68540	60924	54831	49847	45693	42178	39165	36554	34269	32254	30462	28858	27415	26110	24923
88	110924	92437	79231	69328	61624	55462	50420	46218	42663	39615	36974	34663	32624	30812	29190	27731	26410	25210
89	112185	93487	80132	70115	62325	56092	50993	46743	43148	40066	37395	35057	32995	31163	29522	28046	26710	25496
90	113445	94538	81032	70903	63025	56722	51566	47268	43632	40516	37815	35451	33366	31512	29854	28361	27010	25783
91	114706	95588	81932	71691	63725	57352	52139	47794	44117	40966	38235	35845	33737	31862	30185	28676	27310	26069
92	115967	96638	82833	72479	64426	57983	52712	48319	44602	41416	38655	36239	34107	32212	30517	28991	27611	26355
93	117227	97689	83733	73267	65126	58613	53285	48844	45087	41866	39075	36633	34478	32563	30849	29306	27911	26642
94	118487	98739	84634	74054	65826	59243	53857	49369	45572	42317	39495	37027	34849	32913	31180	29621	28211	26928
95	119748	99790	85534	74842	66526	59873	54430	49895	46056	42767	39916	37421	35220	33263	31512	29936	28511	27215
96	121008	100840	86434	75630	67227	60504	55003	50420	46541	43217	40336	37815	35590	33613	31844	30252	28811	27501
97	122269	101890	87335	76418	67927	61134	55576	50945	47026	43667	40756	38209	35961	33963	32176	30567	29111	27788
98	123529	102941	88235	77206	68627	61764	56149	51470	47511	44117	41176	38602	36332	34313	32507	30882	29411	28074
99	124780	103991	89135	77993	69328	62394	56722	51995	47996	44567	41596	38996	36702	34663	32839	31197	29711	28361
100	126050	105042	90036	78781	70028	63025	57295	52521	48481	45018	42016	39390	37073	35014	33171	31512	30012	28647

Torque (in Pound-Inches) For Horsepower/RPM

Torque for 51-100 HP @ 230-1000 RPM

HP	Revolutions per Minute																			
	230	240	250	260	270	280	290	300	350	400	450	500	550	600	650	700	800	900	1000
51	13975	13392	12857	12362	11904	11479	11083	10714	9183	8035	7141	6428	5844	5357	4945	4591	4017	3571	3314
52	14249	13655	13109	12605	12138	11704	11301	10924	9363	8193	7282	6554	5958	5462	5042	4681	4096	3641	3277
53	14523	13918	13361	12847	12371	11929	11518	11134	9543	8350	7422	6680	6073	5567	5138	4771	4175	3711	3340
54	14797	14180	13613	13089	12605	12154	11735	11344	9723	8508	7563	6806	6187	5672	5235	4861	4254	3781	3403
55	15071	14443	13865	13332	12838	12379	11953	11554	9903	8665	7703	6932	6302	5777	5332	4951	4332	3851	3466
56	15345	14705	14117	13574	13071	12605	12170	11764	10084	8823	7843	7058	6417	5882	5429	5042	4411	3921	3529
57	15619	14968	14369	13817	13305	12830	12387	11974	10264	8981	7983	7184	6531	5987	5526	5132	4490	3991	3592
58	15893	15231	14621	14059	13538	13055	12605	12184	10444	9138	8123	7310	6646	6092	5623	5222	4569	4061	3655
59	16167	15493	14873	14301	13772	13280	12822	12394	10624	9296	9263	7436	6760	6197	5720	5312	4648	4131	3718
60	16441	15756	15126	14544	14055	13505	13039	12605	10804	9453	8403	7563	6875	6302	5817	5402	4726	4201	3781
61	16715	16018	15378	14786	14239	13730	13257	12815	10984	9611	8543	7689	6990	6407	5914	5492	4805	4271	3844
62	16989	16281	15630	15029	14472	13955	13474	13025	11164	9768	8683	7815	7104	6512	6011	5582	4884	4341	3907
63	17263	16544	15882	15271	14705	14180	13691	13235	11344	9926	8823	7941	7219	6617	6108	5672	4963	4411	3970
64	17537	16806	16134	15513	14939	14405	13908	13445	11524	10084	8963	8067	7333	6722	6205	5762	5041	4481	4033
65	17811	17069	16386	15756	15172	14630	14126	13655	11704	10241	9103	8193	7448	6827	6302	5852	5120	4551	4096
66	18085	17331	16638	15998	15406	14855	14343	13865	11884	10399	9243	8319	7563	6932	6399	5942	5199	4621	4159
67	18359	17594	16890	16241	15639	15081	14560	14075	12064	10556	9383	8445	7677	7037	6496	6032	5278	4691	4222
68	18633	17857	17142	16483	15873	15306	14778	14285	12244	10714	9523	8571	7792	7142	6593	6122	5357	4761	4285
69	18907	18119	17394	16725	16106	15531	14995	14495	12424	10871	9663	8697	7906	7247	6690	6212	5435	4831	4348
70	19181	18382	17647	16968	16339	15756	15212	14705	12605	11029	9803	8823	8021	7352	6787	6302	5514	4901	4411
71	19455	18644	17899	17210	16573	15981	15430	14915	12785	11186	9943	8949	8135	7457	6884	6392	5593	4971	4474
72	19729	18907	18151	17453	16806	16206	15647	15126	12965	11344	10084	9075	8250	7563	6981	6482	5672	5042	4537
73	20003	19170	18403	17695	17040	16431	15864	15336	13145	11502	10224	9201	8365	7668	7078	6572	5751	5112	4600
74	20277	19432	18655	17937	17273	16656	16082	15546	13325	11659	10364	9327	8479	7773	7175	6662	5829	5182	4663
75	20551	19695	18907	18180	17507	16881	16299	15756	13505	11817	10504	9453	8594	7878	7272	6752	5908	5252	4726
76	20825	19957	19159	18422	17740	17106	16516	15966	13685	11974	10644	9579	8708	7983	7369	6842	5987	5322	4789
77	21099	20220	19411	18665	17973	17331	16734	16176	13865	12132	10784	9705	8823	8088	7466	6932	6066	5392	4852
78	21373	20483	19663	18907	18207	17557	16951	16386	14045	12289	10924	9831	8938	8193	7563	7022	6144	5462	4915
79	21647	20745	19915	19149	18440	17782	17168	16596	14225	12447	11064	9957	9052	8298	7659	7112	6223	5532	4978
80	21921	21008	20168	19392	18674	18007	17386	16806	14405	12605	11204	10084	9167	8403	7756	7202	6302	5602	5042
81	22195	21271	20420	19634	18907	18232	17603	17016	14585	12762	11344	10210	9281	8508	7853	7292	6381	5672	5105
82	22469	21533	20672	19877	19141	18457	17820	17226	14765	12920	11484	10336	9396	8613	7950	7382	6460	5742	5168
83	22743	21796	20924	20119	19374	18682	18038	17436	14945	13077	11624	10462	9511	8718	8047	7472	6538	5812	5231
84	23017	22058	21176	20362	19607	18907	18255	17647	15126	13235	11764	10588	9625	8823	8144	7563	6617	5882	5294
85	23291	22321	21428	20604	19841	19132	18472	17857	15306	13392	11904	10714	9740	8928	8241	7653	6696	5952	5357
86	23565	22584	21680	20846	20074	19357	18690	18067	15486	13550	12044	10840	9854	9033	8338	7743	6775	6022	5420
87	23840	22846	21932	21089	20308	19582	18907	18277	15666	13707	12184	10966	9969	9138	8435	7833	6853	6092	5483
88	24114	23109	22184	21331	20541	19807	19124	18487	15846	13865	12324	11092	10084	9243	8532	7923	6932	6162	5546
89	24388	23371	22436	21574	20775	20033	19342	18697	16026	14023	12464	11218	10198	9348	8629	8013	7011	6232	5609
90	24662	23634	22689	21816	21008	20258	19559	18907	16206	14180	12605	11344	10313	9453	8726	8103	7090	6302	5672
91	24936	23897	22941	22058	21241	20483	19776	19117	16386	14338	12745	11470	10427	9558	8823	8193	7169	6372	5735
92	25210	24159	23193	22301	21475	20708	19994	19327	16566	14495	12885	11596	10542	9663	8920	8283	7247	6442	5798
93	25484	24422	23445	22543	21708	20933	20211	19537	16746	14653	13025	11722	10656	9768	9017	8373	7326	6512	5861
94	25758	24684	23697	22786	21942	21158	20428	19747	16926	14810	13165	11848	10771	9873	9114	8463	7405	6582	5924
95	26032	24947	23949	23028	22175	21383	20646	19957	17106	14968	13305	11974	10886	9978	9211	8553	7484	6652	5987
96	26306	25210	24201	23270	22408	21608	20863	20168	17286	15126	13445	12100	11000	10084	9308	8643	7562	6722	6050
97	26580	25472	24453	23513	22642	21833	21080	20378	17466	15383	13585	12226	11115	10189	9405	8733	7641	6792	6113
98	26854	25735	24705	23755	22875	22058	21298	20588	17647	15441	13725	12352	11229	10294	9502	8823	7720	6862	6176
99	27128	25997	24957	23998	23109	22283	21515	20798	17827	15598	13865	12478	11344	10399	9599	8913	7799	6932	6239
100	27402	26260	25210	24240	23342	22509	21732	21008	18007	15756	14005	12605	11459	10504	9696	9003	7878	7002	6302

Electrical Formulas

To Find	Alternating Current	
	Single-Phase	Three-Phase
Amperes when horsepower is known	$\frac{HP \times 746}{E \times Eff. \times pf}$	$\frac{HP \times 746}{1.73 \times E \times Eff. \times pf}$
Amperes when kilowatts are known	$\frac{Kw \times 1000}{E \times pf}$	$\frac{Kw \times 1000}{1.73 \times E \times pf}$
Amperes when Kva are known	$\frac{Kva \times 1000}{E}$	$\frac{Kva \times 1000}{1.73 \times E}$
Kilowatts	$\frac{I \times E \times pf}{1000}$	$\frac{1.73 \times I \times E \times pf}{1000}$
Kva	$\frac{I \times E}{1000}$	$\frac{1.73 \times I \times E}{1000}$
Horsepower = (Output)	$\frac{I \times E \times Eff. \times pf}{746}$	$\frac{1.73 \times I \times E \times Eff. \times pf}{746}$

I = Amperes; E = Volts; Eff. = Efficiency; pf = power factor;
Kva = Kilovolt amperes; Kw = Kilowatts; R = Ohms

To Find	Alternating or Direct Current
Amperes when voltage and resistance is known	$\frac{E}{R}$
Voltage when resistance and current are known	IR
Resistance when voltage and current are known	$\frac{E}{I}$

General Information (Approximation)

All Values At 100% Load

- At 1800 RPM, a motor develops 36 lb.-in. per hp
- At 1200 RPM, a motor develops 54 lb.-in. per hp
- At 575 volts, a 3-phase motor draws 1 amp per hp
- At 460 volts, a 3-phase motor draws 1.25 amp per hp
- At 230 volts, a 3-phase motor draws 2.5 amp per hp
- At 230 volts, a single-phase motor draws 5 amp per hp
- At 115 volts, a single-phase motor draws 10 amp per hp

Temperature Conversion:

Deg C = (Deg F - 32) × 5/9
Deg F = (Deg C × 9/5) + 32

Motor Amps @ Full Load †

HP	Alternating Current		DC	HP	Alternating Current		DC	HP	Alternating Current		DC	HP	Alternating Current		DC
	Single Phase	3-Phase			Single Phase	3-Phase			Single Phase	3-Phase			Single Phase	3-Phase	
½	4.9	2.0	2.7	5	28	14.4	20	25	....	60	92	75	....	180	268
1	8.0	3.4	4.8	7½	40	21.0	29	30	....	75	110	100	....	240	355
1½	10.0	4.8	6.6	10	50	26.0	38	40	....	100	146	125	....	300	443
2	12.0	6.2	8.5	15	....	38.0	56	50	....	120	180	150	....	360	534
3	17.0	8.6	12.5	20	....	50.0	74	60	....	150	215	200	....	480	712

† Values are for all speeds and frequencies @ 230 volts.
Amperage other than 230 volts can be figured:

$$V = \frac{230 \times \text{Amp from Table}}{\text{New Voltage}}$$

Example:

For 60 HP, 3 phase @ 550 volts: $\frac{(230 \times 150)}{550} = 62$ amps.

Power Factor estimated @ 80% for most motors. Efficiency is usually 80-90%.

NEMA Electrical Enclosure Types

Type	Description	Type	Description
NEMA Type 1 (General Purpose)	For indoor use wherever oil, dust, or water is not a problem	NEMA Type 5 Dust Tight (Non-Hazardous)	Used for excluding dust (All NEMA 12 and JIC enclosures are usually suitable for NEMA 5 use)
NEMA Type 2 (Driptight)	Used indoors to exclude falling moisture and dirt	NEMA Type 9 Dust Tight (Hazardous)*	For locations where combustible dusts are present
NEMA Type 3 (Weatherproof)	Provides protection against rain, sleet, and snow	NEMA Type 12 (Industrial Use)	Used for excluding oil, coolant, flying dust, lint, etc
NEMA Type 4 (Watertight)†	Needed when subject to great amounts of water from any angle — such as areas which are repeatedly hosed down		

NOTE: Joint Industry Conference (JIC) enclosures are similar in design to NEMA 12's.
For more complete details see NEMA or JIC Standards for enclosures.
† Not designed to be submerged.
* Class II Groups E, F, and G.

NEMA Frame Designation

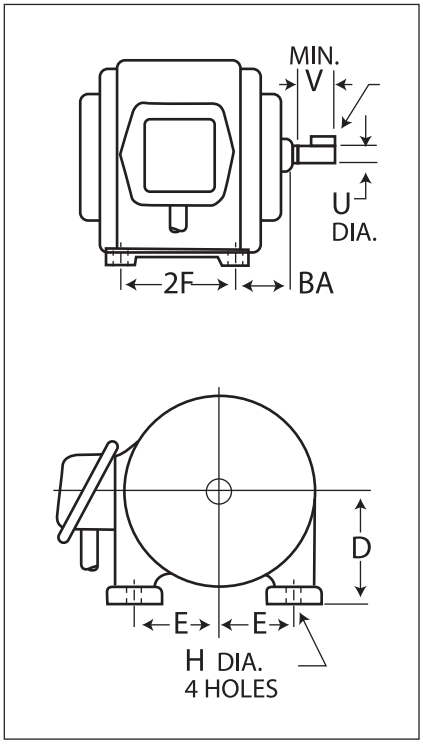
NEMA Frame Designation

Frame Assignments

HP	Motor Speed, RPM				HP	Motor Speed, RPM			
	3600	1800	1200	900		3600	1800	1200	900
⅛-⅓	—	48	—	—	15	215T, 256U	254T, 284U	284T, 324U	286T, 326U
⅛-½	48	—	56	—	20	254T, 284U	256T, 286U	286T, 326U	324T, 364U
⅛	—	—	48	—	25	256T, 286U	284T, 324U	324T, 364U	326T, 365U
⅓- 1	—	56	—	—	30	284TS, 324S	286T, 326U	326T, 365U	364T, 404U
¾- 1	56	—	—	—	40	286TS, 326S	324T, 364U	364T, 404U	365T, 405U
½	—	—	—	143T	50	324TS, 364US	326T, 365U, 365US	365T, 405U	404T, 444U
¾	—	—	143T	145T	60	326TS, 365US	364TS▲, 404U, 404US	404T, 444U	405T, 445U
1	—	143T	145T	182T	75	364TS, 404US	365TS▲, 405U, 405US	405T, 445U	444T
1½	143T	145T	182T	184T	100	365TS, 405US	404TS▲, 444US	444T	445T
2	145T	145T	184T	213T	125	404TS, 444US	405TS▲, 445US	445T	—
3	145T	182T	213T	215T, 254U	150	405TS, 445US	444TS▲	—	—
5	182T	184T	215T, 254U	254T, 256U	200	444TS	445TS▲	—	—
7½	184T	213T, 254U	254T, 256U	256T, 284U	250	445TS	—	—	—
10	213T, 254U	215T, 256U	256T, 284U	284T, 286U	—	—	—	—	—

Motor Frame Dimensions

Frame Size	D	E	2F	H Dia. (4) Holes	U Dia.	BA	V Min.	Key
48	3	2⅛	2¾	11/32	½	2½	...	3/64 FLAT
56	3½	2 7/16	3	11/32	⅝	2¾	...	3/16 × 3/16 × 1⅜
143T	3½	2¾	4	11/32	⅞	2¼	2	3/16 × 3/16 × 1⅜
145T	3½	2¾	5	11/32	⅞	2¼	2	3/16 × 3/16 × 1⅜
182T	4½	3¾	4½	13/32	1⅛	2¾	2½	¼ × ¼ × 1¾
184T	4½	3¾	5½	13/32	1⅛	2¾	2½	¼ × ¼ × 1¾
213T	5¼	4¼	5½	13/32	1⅜	3½	3⅛	5/16 × 5/16 × 2⅜
215T	5¼	4¼	7	13/32	1⅜	3½	3⅛	5/16 × 5/16 × 2⅜
254U	6¼	5	8¼	17/32	1⅜	4¼	3½	5/16 × 5/16 × 2¾
254T	6¼	5	8¼	17/32	1⅝	4¼	3¾	⅜ × ⅜ × 2⅞
256U	6¼	5	10	17/32	1⅜	4¼	3½	5/16 × 5/16 × 2¾
256T	6¼	5	10	17/32	1⅝	4¼	3¾	⅜ × ⅜ × 2⅞
284U	7	5½	9½	17/32	1⅝	4¾	4⅜	⅜ × ⅜ × 3¾
284T	7	5½	9½	17/32	1⅞	4¾	4⅜	½ × ½ × 3¼
284TS	7	5½	9½	17/32	1⅝	4¾	3	⅜ × ⅜ × 1⅞
286U	7	5½	11	17/32	1⅝	4¾	4⅜	⅜ × ⅜ × 3¾
286T	7	5½	11	17/32	1⅞	4¾	4⅜	½ × ½ × 3¼
286TS	7	5½	11	17/32	1⅝	4¾	3	⅜ × ⅜ × 1⅞
324U	8	6¼	10½	21/32	1⅞	5¼	5⅜	½ × ½ × 4¼
324T	8	6¼	10½	21/32	2⅛	5¼	5	½ × ½ × 3⅞
324TS	8	6¼	10½	21/32	1⅞	5¼	3½	½ × ½ × 2
326U	8	6¼	12	21/32	1⅞	5¼	5⅜	½ × ½ × 4¼
326T	8	6¼	12	21/32	2⅛	5¼	5	½ × ½ × 3⅞
326TS	8	6¼	12	21/32	1⅞	5¼	3½	½ × ½ × 2
364U	9	7	11¼	21/32	2⅛	5⅞	6⅛	½ × ½ × 5
364US	9	7	11¼	21/32	1⅞	5⅞	3½	½ × ½ × 2
364T	9	7	11¼	21/32	2⅜	5⅞	5⅝	⅝ × ⅝ × 4¼
364TS	9	7	11¼	21/32	1⅞	5⅞	3½	½ × ½ × 2
365U	9	7	12¼	21/32	2⅛	5⅞	6⅛	½ × ½ × 5
365US	9	7	12¼	21/32	1⅞	5⅞	3½	½ × ½ × 2
365T	9	7	12¼	21/32	2⅜	5⅞	5⅝	⅝ × ⅝ × 4¼
365TS	9	7	12¼	21/32	1⅞	5⅞	3½	½ × ½ × 2
404U	10	8	12¼	13/16	2⅜	6⅝	6⅞	⅝ × ⅝ × 5½
404US	10	8	12¼	13/16	2⅛	6⅝	4	½ × ½ × 2¾
404T	10	8	12¼	13/16	2⅞	6⅝	7	¾ × ¾ × 5⅝
404TS	10	8	12¼	13/16	2⅛	6⅝	4	½ × ½ × 2¾
405U	10	8	13¾	13/16	2⅜	6⅝	6⅞	⅝ × ⅝ × 5½
405US	10	8	13¾	13/16	2⅛	6⅝	4	½ × ½ × 2¾
405T	10	8	13¾	13/16	2⅞	6⅝	7	¾ × ¾ × 5⅝
405TS	10	8	13¾	13/16	2⅛	6⅝	4	½ × ½ × 2¾
444U	11	9	14½	13/16	2⅞	7½	8⅜	¾ × ¾ × 7
444US	11	9	14½	13/16	2⅛	7½	4	½ × ½ × 2¾
444T	11	9	14½	13/16	3⅜	7½	8¼	⅞ × ⅞ × 6⅞
444TS	11	9	14½	13/16	2⅜	7½	4½	⅝ × ⅝ × 3
445U	11	9	16½	13/16	2⅞	7½	8⅜	¾ × ¾ × 7
445US	11	9	16½	13/16	2⅛	7½	4	½ × ½ × 2¾
445T	11	9	16½	13/16	3⅜	7½	8¼	⅞ × ⅞ × 6⅞
445TS	11	9	16½	13/16	2⅜	7½	4½	⅝ × ⅝ × 3



Shaded area indicates typical single phase standard squirreM-cage, open type, a-c motors. Balance of table same except three phase, design A and B.

▲ When these motors are used with V-belt or chain drives, the correct frame size is the one with the suffix "S" omitted — consult manufacturer.

Shaft Selection

Important factors to consider when calculating shaft size

(a) shafting is subject to a **bending moment** and a **torsional moment.**

(b) bending moment is that force which tends to **bend** a shaft.

(c) torsional moment is that force which tends to **twist** a shaft.

(d) shaft size is determined by the **combined action** of the bending and torsional moments.

Refer to Shaft Selection Charts 2 and 3 developed by the American Society of Mechanical Engineers to simplify selection. The charts should be used in conjunction with Service Factors (Table 1) to modify the selection for conditions under which the shaft will operate.

Selection Procedure

1. compute the Bending Moment from the above formula.
2. determine the Service Factor for bending that will suit conditions from Table 1.
3. compute the Torsional Moment from the above formula.
4. determine the Service Factor for torsion that will suit conditions from Table 1.
5. draw a horizontal line across Selection Chart 2 or 3 on pages M-10 and M-11, from the point where the **torsional moment intersects** its selected Service Factor line.
6. draw a vertical lineup Selection Chart 2 or 3 from the point where the **bending moment intersects** its selected factor line.
7. intersection of above lines will give required shaft size.
8. for shafts not weakened by keyways, multiply the shaft size obtained by .91 for the corrected shaft size. See note at the bottom of Selection Chart 3.

Horsepower required may be computed directly from the right-hand side of Selection Charts by correcting the figure in line with the horizontal torsional moment line by the speed in RPM.

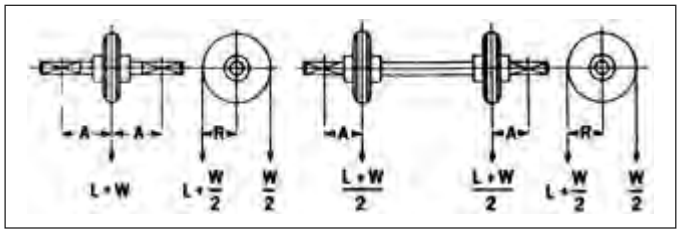
Table 1 • Service Factors

Type of Loading	Service Factor	
	For Bending	For Torsion
Stationary Shafts –		
Gradually applied loads	1.0	1.0
Suddenly applied loads	1.5 to 2.0	1.5 to 2.0
Rotating Shafts –		
Gradually applied or steady loads	1.5	1.0
Suddenly applied loads –		
Minor shock only	1.5 to 2.0	1.0 to 1.5
Suddenly applied loads –		
Heavy shock	2.0 to 2.5	1.5 to 2.5

A = Shaft length from center of bearing to center of load
L = Unbalanced load in pounds
W = Suspended weight of elevator (chain, buckets, etc.) in pounds
R = Radius of wheel in inches
B = Bending moment
T = Torsional moment

$B = A \frac{L + W}{2}$ inch pounds

$T = R \times L$ inch pounds



Selection Example:

Select shaft size for head shaft of chain conveyor subject to following requirements:

(a) Torsion (inch/lbs) — 20,500
(b) Bending moment (inch/lbs) — 13,300
(c) Service Factors:
torsion — 1.0
bending — 1.5

At the extreme left on Selection Chart 2, the torsion moment may be found for the Service Factor of 1.0. Draw a horizontal line to the right from the 20,500 point. The bending moment is given at the bottom of the chart. Find the 13,300 point; draw a line from this point to the right on the diagonal until it intersects the 1.5 Service Factor line, then project the line upward vertically until it intersects the horizontal line drawn from the 20,500 torsion point. At this intersection point, it is found that a shaft of approximately $2^{13}/_{16}$" diameter is required.

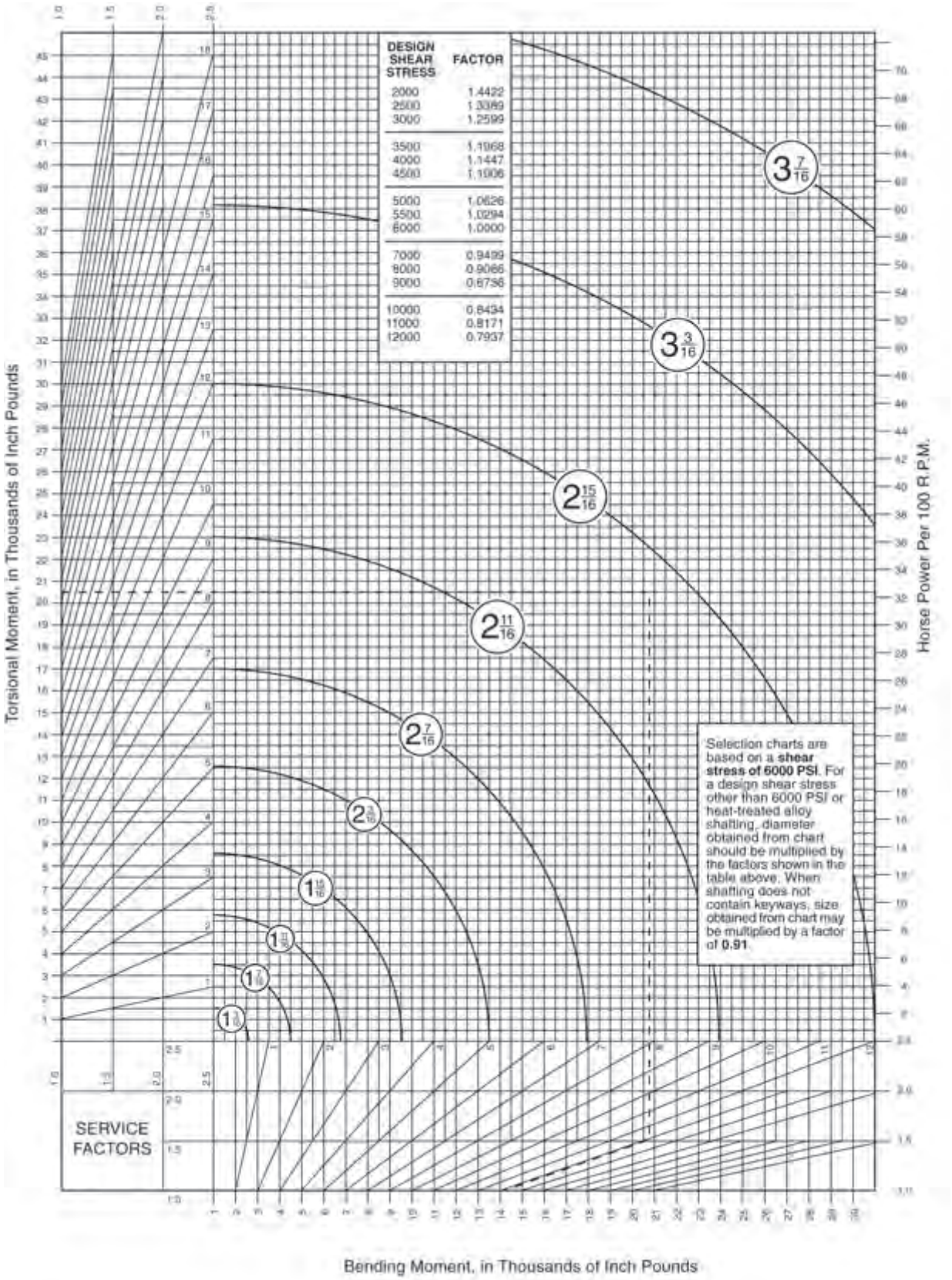
Select the nearest standard size shaft which is $2^{15}/_{16}$".

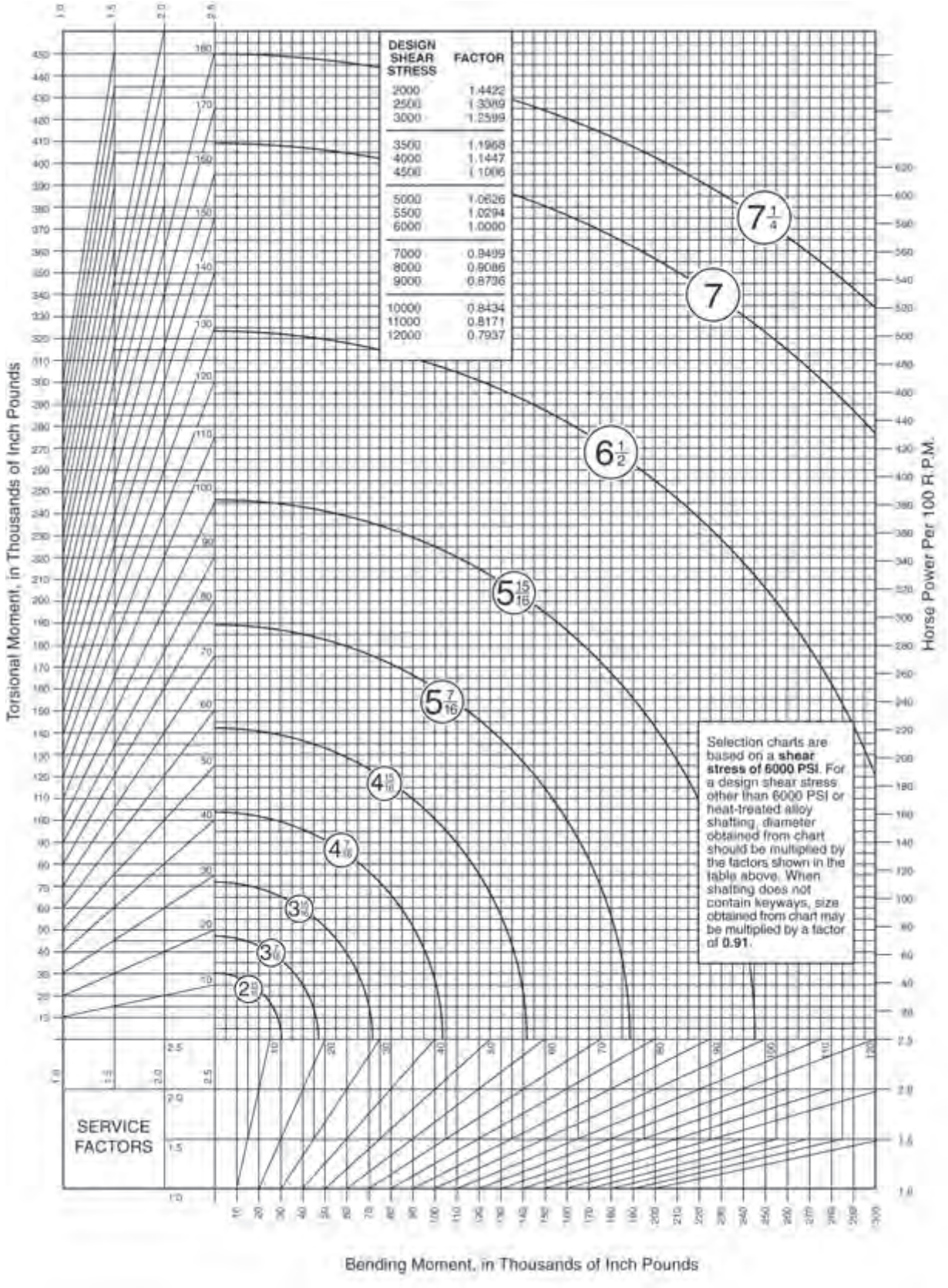
For a shaft subjected to the same conditions, but not weakened by keyways, the size of the shaft required would be (.91 × 2.8125) or 2.56 ($2^{9}/_{16}$"). See note at the bottom of the charts.

On this same chart at the right, the horsepower ratings at 100 RPM are given based on the formula:

$HP = \frac{TS}{63{,}000}$

T = Torque in inch-pounds
S = Speed in RPM
The horsepower is directly proportional to the speed of the shaft in RPM.


DESIGN SHEAR STRESS
FACTOR
2000 1.4422
2500 1.3089
3000 1.2599
3500 1.1968
4000 1.1447
4500 1.1006
5000 1.0626
5500 1.0294
6000 1.0000
7000 0.9489
8000 0.9066
9000 0.8736
10000 0.8434
11000 0.8171
12000 0.7937
Selection charts are based on a shear stress of 6000 PSI. For a design shear stress other than 6000 PSI or heat-treated alloy shafting, diameter obtained from chart should be multiplied by the factors shown in the table above. When shafting does not contain keyways, size obtained from chart may be multiplied by a factor of 0.91.
SERVICE FACTORS
Torsional Moment, in Thousands of Inch Pounds
Horse Power Per 100 R.P.M.
Bending Moment, in Thousands of Inch Pounds


DESIGN SHEAR STRESS
FACTOR
2000 1.4422
2500 1.3369
3000 1.2599
3500 1.1968
4000 1.1447
4500 1.1006
5000 1.0626
5500 1.0294
6000 1.0000
7000 0.9499
8000 0.9086
9000 0.8736
10000 0.8434
11000 0.8171
12000 0.7937
Selection charts are based on a **shear stress of 6000 PSI**. For a design shear stress other than 6000 PSI or heat-treated alloy shafting, diameter obtained from chart should be multiplied by the factors shown in the table above. When shafting does not contain keyways, size obtained from chart may be multiplied by a factor of **0.91**.
SERVICE FACTORS
Torsional Moment, in Thousands of Inch Pounds
Horse Power Per 100 R.P.M.
Bending Moment, in Thousands of Inch Pounds

Flywheel Formulas

Flywheels are occasionally used on a few machines, such as air compressors, to even out load pulsations. These formulas are useful in designing entire flywheel rims. It is also possible to use V-Belt sheaves as a flywheel thus eliminating the need for a separate flywheel in the system. Consult Martin with specific requirements.

Formulas for Entire Flywheel

W = weight (pounds)
R = radius of gyration (feet)
N = speed (RPM)
t = time to change from N_1 to N_2 (seconds)
F = face of rim (inches)
D = outside diameter of rim (inches)
d = inside diameter of rim (inches)
P = weight per cubic inch of material (pounds)

Kinetic energy of rotation of a flywheel (foot pounds) = $.0001705\ N^2(WR^2)^*$.

Torque to accelerate or decelerate a flywheel uniformly (pound inches) $= \dfrac{.03908(N_2 - N_1)(WR^2)^*}{t}$,

where N_2 = final RPM and N_1 = initial RPM
Velocity at outside diameter (feet per minute) = 0.2618 ND

*WR^2 = flywheel effect (pounds × $feet^2$). See table below for WR^2 of rims. Ordinarily the WR^2 of the rim only is considered. In unusual instances the relatively small WR^2 values of the hub and arms or web can be added directly to the WR^2 of the rim if desired. To find the WR^2 of a hub or web use the WR^2 formula for rims, substituting the hub or web outside diameter, inside diameter, and width for D, d, and F respectively. When arms are used instead of a web an approximate WR^2 value of the arms is the total weight of the arms in pounds times the square of the radius in feet from the shaft center line to the mid-point of the arms between hub and rim.

Formulas for Flywheel Rims

Property	Cast Iron Rim (Based on .26 lbs per cubic inch)	Steel Rim Rim (Based on .283 lbs per cubic inch)	Rim of any Material (Weighing P Pounds per cubic inch)
Volume (Cubic Inches)	$.7854F(D^2 - d^2)$	$.7854F(D^2 - d^2)$	$.7854F(D^2 - d^2)$
W Weight (Pounds)	$.2042F(D^2 - d^2)$	$.2223F(D^2 - d^2)$	$.7854FP(D^2 - d^2)$
R Radius of Gyration (Feet)	$\sqrt{\frac{.8681(D^2 + d^2)}{1000}}$	$\sqrt{\frac{.8681(D^2 + d^2)}{1000}}$	$\sqrt{\frac{.8681(D^2 + d^2)}{1000}}$
WR^2 Wt. × Sq. of Radius of Gyration (Lbs. × $Ft.^2$)	$\frac{.1773F(D^4 - d^4)}{1000}$	$\frac{.1929F(D^4 - d^4)}{1000}$	$\frac{.6818FP(D^4 - d^4)}{1000}$
Ts Tensile Load in Rim (Lbs.)	$\frac{.3078FN^2(D^3 - d^3)}{1,000,000}$	$\frac{.3350FN^2(D^3 - d^3)}{1,000,000}$	$\frac{1.184PFN^2(D^3 - d^3)}{1,000,000}$

▲ Centrifugal force causes this tensile load at each and every section of the rim. Thus on rims split into two or more sections, the fastening at each joint should be designed to take the full load as calculated from the formula below.

Centrifugal Force

R = Distance from the axis of rotation to the center of gravity of the body (feet)

N = Revolutions per minute (RPM)

v = Velocity of the center of gravity of the body (feet per second)

g = Acceleration due to gravity (32.16 commonly)

$$F = -\frac{Wv^2}{gR} = \frac{WRN^2}{2933} = .000341\ WRN^2$$

F = Centrifugal force tending to move the body outward from the axis of rotation (pounds)

W = Weight of body (pounds)

Weights of Steel

NOTE: The steel weights in this section are nominal and are based on an approximate weight of 40.80 pounds per square foot, one inch thick. There may be differences between nominal weights and actual scale weights because of variation in manufacturing practices.

Hot Rolled and Cold Finished Steel Products Nominal Weight

Product	Thickness	Width	Length	Formulas
Plates, Strip and Flats	Inches	Inches	Inches	.2833 × T × W × L
	Inches	Inches	Feet	3.4 × T × W × L
	Inches	Feet	Feet	40.8 × T × W × L
	USS. Ga No.	Feet	Feet	Wt./Sq. Ft. × W × L
	Wt. per Sq. Ft.	Feet	Feet	Wt./Sq. Ft. × W × L
Hot and C.R. Sheets	Inches	Inches	Inches	.2904 × T × W × L
	Inches	Inches	Feet	3.485 × T × W × L
	Inches	Feet	Feet	41.82 × T × W × L
	USS. Ga No.	Feet	Feet	Wt./Sq. Ft. × W × L
	Wt. per Sq. Ft.	Feet	Feet	Wt./Sq. Ft. × W × L

		Thickness	Diameter	
Plate Circles		Inches	Inches	.2225 × T × D^2
		Inches	Feet	32.05 × T × D^2
Sheet Circles		Inches	Inches	.228 × T × D^2
		Inches	Feet	32.85 × T × D^2
		Diameter	Length	
Bars	Square	Inches	Feet	3.4 × D^2 × L
	Round	Inches	Feet	2.67 × D^2 × L
	Hexagon	Inches	Feet	2.945 × D^2 × L
	Octagon	Inches	Feet	2.817 × D^2 × L

T = thickness L = length W = width D = diameter

Steel Rounds

Size in Inches	Pounds Per Foot	Size in Inches	Pounds Per Foot
7/8	2.04	2 15/16	23.04
15/16	2.35	3	24.03
1	2.67	3 1/16	25.05
1 1/16	3.01	3 1/8	26.08
1 1/8	3.38	3 3/16	27.13
1 3/16	3.77	3 1/4	28.20
1 1/4	4.17	3 5/16	29.30
1 5/16	4.60	3 3/8	30.42
1 3/8	5.05	3 7/16	31.55
1 7/16	5.52	3 1/2	32.71
1 1/2	6.01	3 9/16	33.89
1 9/16	6.52	3 5/8	35.09
1 5/8	7.05	3 11/16	36.31
1 11/16	7.60	3 3/4	37.55
1 3/4	8.18	3 15/16	38.81
1 13/16	8.77	3 7/8	40.10
1 7/8	9.39	3 15/16	41.40
1 15/16	10.02	4	42.73
2	10.68	4 1/16	44.07
2 1/16	11.36	4 1/8	45.44
2 1/8	12.06	4 3/16	46.83
2 3/16	12.78	4 1/4	48.23
2 1/4	13.52	4 5/16	49.66
2 3/16	14.28	4 3/8	51.11
2 3/8	15.06	4 7/16	52.58
2 7/16	15.87	4 1/2	54.08
2 1/2	16.69	4 9/16	55.59
2 9/16	17.53	4 5/8	57.12
2 5/8	18.40	4 11/16	58.68
2 11/16	19.29	4 3/4	60.25
2 3/4	20.19	4 13/16	61.85
2 13/16	21.12	4 7/8	63.46
2 7/8	22.07	4 15/16	65.10

Standard Sheet Weights

Ga. Number	Thickness in Inches	Weight Per Square Foot in Pounds
	Over 3/16" are plates	
7	.1793	7.500
8	.1644	6.875
9	.1494	6.250
10	.1345	5.625
11	.1196	5.000
12	.1046	4.375
13	.0897	3.750
14	.0747	3.125
15	.0673	2.812
16	.0598	2.500

Carbon Steel Plates

Size in Inches	Weight Per Square Foot in Pounds
3/16	7.76
1/4	10.20
5/16	12.75
3/8	15.30
7/16	17.85
1/2	20.40
9/16	22.95
5/8	25.50
3/4	30.60
13/16	33.15
7/8	35.70
1	40.80
1 1/8	45.90
1 1/4	51.00
1 3/8	56.10
1 1/2	61.20

NOTE: Stainless Steel weighs approximately 10% more than Carbon Steel.

Steel Properties

Properties of Steel

The information shown below is offered as a general guide to physical properties of steel in common use. Lower tensile properties are to be expected in large sections; the values of strength decrease as the size of the section increases. These values are not guaranteed and must **NOT** be used in specifying the raw materials or as a basis for acceptance or rejection of material. It must not be assumed that these properties will be obtained in all cases as they vary widely with permissible variations in analysis, size of section, rolling conditions, grain size, and methods of heat treatment. Dependable physical properties can only be obtained through carefully controlled analysis and heat treatment.

Average Properties of Standard Steels

AISI Number	SAE Number	Condition of Steel	Strength in1000 PSI		% Elong. in 2"	% Red. of Area	Hardness		Machinability % of B1112 CD
			Tensile	Yield			Brinell	Rockwell	
B1112	1112	COLD DRAWN BESSEMER	75-90	60-70	12-16	40-50	170-185	80-95B	100
C1018	1018	NATURAL HOT ROLLED	55-70	40-50	25-35	50-65	120-140	.....	55
		COLD DRAWN	70-85	50-70	18-25	45-55	160-180	80-90B	65
		1" RD. CARBURIZED AT 1700°F, COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES	90-100	60-80	10-22	35-50	200-230	93-98B	.....
C1020	1020	NATURAL HOT ROLLED	60-80	40-50	25-35	50-65	120-145	60-98B	50
		COLD DRAWN	70-80	45-70	15-25	45-60	120-160	70-85B	60
C1117	1117	NATURAL HOT ROLLED	60-70	37-47	20-30	45-60	135-150	.....	80
		COLD DRAWN	80-90	60-75	15-20	40-50	160-190	80-90B	90
		1" RD. CARBURIZED AT 1700°F, COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES	95-110	60-85	10-25	35-50	210-240	15-22C	.....
C1035	1035	NATURAL HOT ROLLED	75-85	40-55	18-25	40-55	155-175	.....	60
		COLD DRAWN	85-95	65-80	15-25	40-50	170-200	85-95B	65
		1" RD. QUENCHED, TEMPERED 1000°F	95-105	70-80	20-25	55-60	195-220	93-98B	55
C1040	1040	NATURAL HOT ROLLED	80-90	45-55	18-25	35-50	165-185	.....	60
		COLD DRAWN	90-100	70-85	14-20	35-50	190-215	91-98B	62
		1" RD. QUENCHED, TEMPERED 1000°F	100-110	75-85	15-25	45-60	210-240	17-23C	52
C1042	1042	NATURAL HOT ROLLED	85-95	50-60	15-25	35-50	175-205	.....	58
		COLD DRAWN	90-105	75-90	12-20	30-45	185-215	.....	60
		1" RD. QUENCHED, TEMPERED 1000°F	105-120	80-90	15-25	40-60	215-250	.....	.....
C1045	1045	NATURAL HOT ROLLED	85-105	50-65	15-25	35-45	175-215	.....	55
		COLD DRAWN	90-110	75-90	12-20	30-45	195-230	95-99B	58
		1" RD. QUENCHED, TEMPERED 1000°F	110-130	80-95	12-25	40-55	235-260	22-26C	47
C1141	1141	NATURAL HOT ROLLED	90-110	60-80	15-25	25-45	180-220	.....	65
		COLD DRAWN	100-120	85-105	8-18	20-50	195-230	.....	70
		1" RD. QUENCHED, TEMPERED 1000°F	120-145	100-130	10-20	35-50	270-310	.....	.....
C1144	1144	NATURAL HOT ROLLED	95-110	60-85	15-25	30-45	200-240	.....	75
		COLD DRAWN	100-120	90-115	7-17	20-45	210-245	17-23C	85
		1" RD. QUENCHED, TEMPERED 1000°F	130-150	110-130	15	45	286-302	29-31C	.....
C1050	1050	NATURAL HOT ROLLED	95-110	55-70	15-20	25-40	210-325	.....	50
		1" RD. QUENCHED, TEMPERED 1000°F	115-135	85-100	10-22	35-50	240-265	23-27C	.....
4140	4140	HOT ROLLED, ANNEALED	90-100	60-70	20-30	50-60	185-210	91-95B	55
		COLD DRAWN, ANNEALED	110-120	85-95	15-25	45-55	230-250	20-25C	65
		HEAT TREATED, COLD DRAWN	140-155	125-140	12-20	45-55	270-300	26-30C	45
		1" RD. QUENCHED, TEMPERED 1000°F	150-160	130-140	15-20	50-60	320-350	34-37C	.....
		2" RD. QUENCHED, TEMPERED 1000°F	145-155	125-135	15-20	50-60	320-345	33-36C	.....
		3" RD. QUENCHED, TEMPERED 1000°F	130-145	115-125	15-20	55-65	280-310	28-32C	.....
E52100	52100	HOT ROLLED, ANNEALED	100-110	75-85	20-25	50-60	210-235	.....	45
		1" RD. QUENCHED, TEMPERED 1000°F	180-195	65-80	10-15	35-45	375-415	40-43C	.....
8620	8620	NATURAL HOT ROLLED	90-95	55-65	18-25	45-60	160-200	85-95B	55
		COLD DRAWN	90-105	65-80	15-25	40-50	185-215	90-96B	60-70
		1" RD. CARBURIZED 1700°F., COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES	120-135	90-110	15-20	40-50	285-350	28-40C	.....
8645	8645	NATURAL HOT ROLLED	105-125	55-75	15-25	35-50	220-270	20-28C	48-55
		HOT ROLLED, ANNEALED	100-110	50-60	20-25	40-55	210-230	17-21C	54
		2" RD. QUENCHED, TEMPERED 1000°F	140-150	110-125	15-20	45-55	300-320	30-34C	.....
		3" RD. QUENCHED, TEMPERED 1000°F	130-140	105-115	15-20	50-60	285-310	29-32C	.....
8742	8742	NATURAL HOT ROLLED	110-125	50-70	15-25	35-50	230-270	22-28C	45-50
		COLD DRAWN, ANNEALED	105-120	95-105	10-18	35-45	210-235	95-99B	60
		1" RD. QUENCHED, TEMPERED 1000°F	155-165	135-145	15-20	45-52	330-335	35-38C	.....
		2" RD. QUENCHED, TEMPERED 1000°F	135-145	110-120	15-20	50-60	290-320	30-33C	.....

Physical Properties of Various Metals

Metals and Alloys	Stress in Thousands of Pounds per Square Inch				Modulus of Elasticity 1,000,000 Lbs.	Elongation %
	Tension Ultimate	Tension Yield Point	Compression Ultimate	Shear Ultimate		
ALUMINUM, TYPE 3003-0, ANNEALED	16	6	.....	11	10	40
ALUMINUM, TYPE 3003-H18, HARD	29	27	.....	16	10	10
ALUMINUM, TYPE 5052-0, ANNEALED	28	13	.....	18	10.2	30
ALUMINUM, TYPE 5052-H38, HARD	42	37	.....	24	10.2	8
ALUMINUM, TYPE 5056-0, ANNEALED	42	22	.....	26	10.3	35
ALUMINUM, TYPE 2014-0, ANNEALED	27	14	.....	18	10.6	18
ALUMINUM, TYPE 2014-T4, HEAT TREATED	62	42	.....	38	10.6	20
ALUMINUM, TYPE C4A, CASTING, SOLUTION HEAT TREAT	32	16	16▲	24	.....	8.5
ALUMINUM, TYPE S5C, AS DIE CAST	30	16	16▲	19	.....	9
BRASS, ALUMINUM, ANNEALED	60	27	.....	.....	16	55
BRASS, RED, 15% ZN, ANNEALED	39	10	.....	31	17	48
BRASS, RED, 15% ZN, HARD	70	57	.....	42	17	5
BRASS, RED, LEADED, CAST, GRADE 4A	33-46	17-24	10-12▲	.....	9.1-14.8	20-35
BRASS, RED, LEADED, CAST, GRADE 4B	30-38	12-17	11-12▲	.....	.....	15-27
BRASS, YELLOW, 35% ZN, ANNEALED	46	14	.....	32	15	65
BRASS, YELLOW, 35% ZN, HARD	74	60	.....	43	15	8
BRONZE, ALUMINUM, AS CAST	67-95	27-45	.....	.....	15-18	5-35
BRONZE, COMMERCIAL, 10% ZN, ANNEALED	37†	10†	.....	28†	17	45†
BRONZE, MANGANESE, ANNEALED	65†	30†	.....	42†	15	33†
BRONZE, PHOSPHOR, ANNEALED	40-66	14-24	.....	.....	16-17	48-70
BRONZE, TIN, HIGH LEADED, CAST	23-38	11-22	12-16▲	.....	8.5-13	7-20
BRONZE, TIN, LEADED, CAST	33-48	16-26	9-15▲	.....	10.6-16	15-40
COPPER, BERYLLIUM, ANNEALED	60-80†	25-35†	.....	50-60†	19	35-50†
INCONEL, CAST	65-90	.....	.....	.....	23	10-20
INCONEL, S, CAST	90-120	80-100	.....	.....	25	1-3
IRON, CAST, CLASS 30	30-34	.....	115	44	15	.....
IRON, CAST, CLASS 35	35-40	.....	125	43	16	.....
IRON, MALLEABLE, CLASS 32510	50	33	90	46	25	10-18
IRON, MALLEABLE, CLASS 35018	55	37	90	51	25	18-25
IRON, NODULAR (DUCTILE) CLASS 60-45-10	60	45	120	.....	22-25	10-25
IRON, NODULAR (DUCTILE) CLASS 80-60-3	80	60	160	.....	22-25	3-10
IRON, PEARLITIC, MALLEABLE	60-90	40-70	.....	.....	28	3-12
IRON, WROUGHT, HOT ROLLED	34-47	23-24	.....	.....	29	7-35
LEAD, HARD, ROLLED	4.0-4.6	.....	.....	.....	.....	31-48
MONEL, CAST	65-90	32-45	.....	.....	23	20-50
MONEL, S, CAST	120-145	80-130	.....	.....	24.2	1-4
MONEL, SHAPES, PLATE, ETC., ANNEALED	70-85†	25-45†	.....	.....	26	35-50†
NICKEL, CAST	50-65	15-30	.....	.....	21.5	15-30
NICKEL, SILVER, ANNEALED	49-63†	18-30†	.....	.....	17-18	35-60†
STEEL, CAST CARBON, CLASS 70,000 NORMALIZED	70	38	.....	.....	30	28
STEEL, CAST LOW ALLOY, CLASS 100,000, NORMALIZE & TEMPERED	100	68	.....	.....	29-30	20
STEEL, CAST LOW ALLOY, CLASS 120,000, QUENCHED AND TEMPERED	120	95	.....	.....	29-30	16
STEEL, CAST LOW ALLOY, CLASS 200,000, QUENCHED AND TEMPERED	200	170	.....	.....	29-30	5
STEEL, SHEETS	48	25	.....	.....	29-30	18-27
STEEL, STAINLESS, AUSTENITIC, TYPES 304, 316	85	35	.....	.....	28	55-60
STEEL, STAINLESS, MARTENSITIC, TYPE 416	75	40	.....	.....	29	30
STEEL, STRUCTURAL, BRIDGE AND BUILDING, ASTM A7	60-72	33	33▲	45-54	29-30	21
STEEL, STRUCTURAL, HIGH STRENGTH, LOW ALLOY, ASTM A242	63-72	42-50	42-50▲	47-53	29-30	18-24
ZINC, DIE CAST ALLOY, XXIII	41	.....	60▲	31	.....	10

† When hardened, strength values are higher, elongation less.
▲ Compression yield point.

Hardness Conversion Chart

Brinell, Rockwell, and Scleroscope Hardness Numbers with Corresponding Tensile Strength

Brinell 10 MM Ball 3000 Kg.	Rockwell "C" 120 Cone 150 Kg.	Scleroscope Shore Model C	Tensile Strength 1000 Pound Per Square Inch
745	68	100	368
712	66	95	352
682	64	91	337
653	62	87	324
627	60	84	311
601	58	81	298
578	57	78	287
555	55	75	276
534	53	72	266
514	52	70	256
495	50	67	247
477	49	65	238
461	47	63	229
444	46	61	220
429	45	59	212
415	44	57	204
401	42	55	196
388	41	54	189
375	40	52	182
362	38	51	176
351	37	49	170
341	36	48	165
331	35	46	160
321	34	45	155
311	33	44	150
302	32	43	146
293	31	42	142
285	30	40	138
277	29	39	134
269	28	38	131
262	26	37	128
255	25	37	125
248	24	36	122
241	23	35	119
235	22	34	116
229	21	33	113
223	20	32	110
	Rockwell "B" 1/16" Ball 100 Kg.		
217	97	31	107
212	96	31	104
207	95	30	101
202	94	30	99
197	93	29	97
192	92	28	95
187	91	28	93
183	90	27	91
179	89	27	89
174	88	26	87

Decimal Equivalent Table

Decimal and Millimeter Equivalents of Fractions

Inches		Millimeters	Inches		Millimeters	Inches		Millimeters
Fractions	Decimals		Fractions	Decimals		Fractions	Decimals	
1/64	.015625	.397	11/32	.34375	8.731	11/16	.6875	17.463
1/32	.03125	.794	23/64	.359375	9.128	45/64	.703125	17.859
3/64	.406875	1.191	3/8	.375	9.525	23/32	.71875	18.256
1/16	.0625	1.588	25/64	.390625	9.922	47/64	.734375	18.653
5/64	.078125	1.984	13/32	.40625	10.319	3/4	.750	19.050
3/32	.09375	2.381	27/64	.421875	10.716	49/64	.765625	19.447
7/64	.109375	2.778	7/16	.4375	11.113	25/32	.78125	19.844
1/8	.125	3.175	29/64	.453125	11.509	51/64	.796875	20.241
9/64	.140625	3.572	15/32	.46875	11.906	13/16	.8125	20.638
5/32	.15625	3.969	31/64	.484375	12.303	53/64	.828125	21.034
11/64	.171875	4.366	1/2	.500	12.700	27/32	.84375	21.431
3/16	.1875	4.763	33/64	.515625	13.097	55/64	.859375	21.828
13/64	.203125	5.159	17/32	.53125	13.494	7/8	.875	22.225
7/32	.21875	5.556	35/64	.546875	13.891	57/64	.890625	22.622
15/64	.234375	5.953	9/16	.5625	14.288	29/32	.90625	23.019
1/4	.250	6.350	37/64	.578125	14.684	59/64	.921875	23.416
17/64	.265625	6.747	19/32	.59375	15.081	15/16	.9375	23.813
9/32	.28125	7.144	39/64	.609375	15.478	61/64	.953125	24.209
19/64	.296875	7.541	5/8	.625	15.875	31/32	.96875	24.606
5/16	.3125	7.938	41/64	.640625	16.272	63/64	.984375	25.003
21/64	.328125	8.334	21/32	.65625	16.669	1	1.000	25.400
			43/64	.671875	17.066			

Decimal Equivalents of Millimeters

MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches
0.1	.00394	9.5	0.37401	22.5	0.88582	35.5	1.39763	48.5	1.90944	61.5	2.42125	74.5	2.93306	87.5	3.44487
0.2	.00787	10.0	0.39370	23.0	0.90551	36.0	1.41732	49.0	1.92913	62.0	2.44094	75.0	2.95275	88.0	3.46456
0.3	.01181	10.5	0.41338	23.5	0.92519	36.5	1.43700	49.5	1.94881	62.5	2.46062	75.5	2.97243	88.5	3.48424
0.4	.01575	11.0	0.43307	24.0	0.94488	37.0	1.45669	50.0	1.96850	63.0	2.48031	76.0	2.99212	89.0	3.50393
0.5	.01968	11.5	0.45275	24.5	0.96456	37.5	1.47637	50.5	1.98818	63.5	2.49999	76.5	3.01180	89.5	3.52361
0.6	.02362	12.0	0.47244	25.0	0.98425	38.0	1.49606	51.0	2.00787	64.0	2.51968	77.0	3.03149	90.0	3.54330
0.7	.02756	12.5	0.49212	25.5	1.00393	38.5	1.51574	51.5	2.02755	64.5	2.53936	77.5	3.05117	90.5	3.56298
0.8	.03149	13.0	0.51181	26.0	1.02362	39.0	1.53543	52.0	2.04724	65.0	2.55905	78.0	3.07086	91.0	3.58267
0.9	.03543	13.5	0.53149	26.5	1.04330	39.5	1.55511	52.5	2.06692	65.5	2.57873	78.5	3.09054	91.5	3.60235
1.0	.03937	14.0	0.55118	27.0	1.06299	40.0	1.57480	53.0	2.08661	66.0	2.59842	79.0	3.11023	92.0	3.62204
1.5	.05905	14.5	0.57086	27.5	1.08267	40.5	1.59488	53.5	2.10629	66.5	2.61810	79.5	3.12991	92.5	3.64172
2.0	.07874	15.0	0.59055	28.0	1.10236	41.0	1.61417	54.0	2.12598	67.0	2.63779	80.0	3.14960	93.0	3.66141
2.5	.09842	15.5	0.61023	28.5	1.12204	41.5	1.63385	54.5	2.14566	67.5	2.65747	80.5	3.16928	93.5	3.68109
3.0	.11811	16.0	0.62992	29.0	1.14173	42.0	1.65354	55.0	2.16535	68.0	2.67716	81.0	3.18897	94.0	3.70078
3.5	.13779	16.5	0.64960	29.5	1.16141	42.5	1.67322	55.5	2.18503	68.5	2.69684	81.5	3.20865	94.5	3.72046
4.0	.15748	17.0	0.66929	30.0	1.18110	43.0	1.69291	56.0	2.20472	69.0	2.71653	82.0	3.22834	95.0	3.74015
4.5	.17716	17.5	0.68897	30.5	1.20078	43.5	1.71259	56.5	2.22440	69.5	2.73621	82.5	3.24802	95.5	3.75983
5.0	.19685	18.0	0.70866	31.0	1.22047	44.0	1.73228	57.0	2.24409	70.0	2.75590	83.0	3.26771	96.0	3.77952
5.5	.21653	18.5	0.72834	31.5	1.24015	44.5	1.75196	57.5	2.26377	70.5	2.77558	83.5	3.28739	96.5	3.79920
6.0	.23622	19.0	0.74803	32.0	1.25984	45.0	1.77165	58.0	2.28346	71.0	2.79527	84.0	3.30708	97.0	3.81889
6.5	.25590	19.5	0.76771	32.5	1.27952	45.5	1.79133	58.5	2.30314	71.5	2.81495	84.5	3.32676	97.5	3.83857
7.0	.27559	20.0	0.78740	33.0	1.29921	46.0	1.81102	59.0	2.32283	72.0	2.83464	85.0	3.34645	98.0	3.85826
7.5	.29527	20.5	0.80708	33.5	1.31889	46.5	1.83070	59.5	2.34251	72.5	2.85432	85.5	3.36613	98.5	3.87794
8.0	.31496	21.0	0.82677	34.0	1.33858	47.0	1.85039	60.0	2.36220	73.0	2.87401	86.0	3.38682	99.0	3.89763
8.5	.34464	21.5	0.84645	34.5	1.35826	47.5	1.87007	60.5	2.38188	73.5	2.89369	86.5	3.40550	99.5	3.91731
9.0	.35433	22.0	0.86614	35.0	1.37795	48.0	1.88976	61.0	2.40157	74.0	2.91338	87.0	3.42519	100.0	3.93700

English Metric System Equivalents

Length Equivalents

Unit	Millimeters	Centimeters	Inches	Feet	Yards	Meters
1 MILLIMETER =	1	.1	.03937	.003281	.001094	.001
1 CENTIMETER =	10	1	.3937	.032808	.010936	.01
1 INCH =	25.4001	2.54001	1	.083333	.027778	.025400
1 FOOT =	304.801	30.4801	12	1	.333333	.304801
1 YARD =	914.402	91.4402	36	3	1	.914402
1 METER =	1000	100	39.37	3.28083	1.09361	1

Unit	Feet	Yards	Meters	Rods	Furlongs	Miles (Statute)
1 ROD =	16.5	5.5	5.02921	1	.025 (1/40)	.003125 (1/320)
1 FURLONG =	660	220	201.168	40	1	.125 (⅛)
1 KILOMETER =	3280.8	1093.6	1000	199	4.971	.62137
1 MILE (STATUTE) =	5280	1760	1609.35	320	8	1

1 NAUTICAL MILE = 6080.2 FEET = 1.15155 STATUTE MILES = ⅛ LEAGUE.
1 LIGHT YEAR = 5.879 TRILLION MILES = 9.46 TRILLION KILOMETERS.

Weight Equivalents

Unit	Grains	Grams	Ounces (Troy)	Ounces (Avoir.)	Pounds (Troy)	Pounds (Avoir.)	Kilograms
1 GRAIN =	1	.064799	.002083	.002286	.000174	.000143	.000065
1 GRAM =	15.4324	1	.032151	.035274	.002679	.002205	.001
1 OUNCE (TROY) =	480	31.1035	1	1.09714	.083333	.068571	.031104
1 OUNCE (AVOIR.) =	437.5	28.3495	.911458	1	.075955	.0625	.028350
1 POUND (TROY) =	5760	373.242	12	13.1657	1	.822857	.373242
1 POUND (AVOIR.) =	7000	453.592	14.5833	16	1.21528	1	.453592
1 KILOGRAM =	15432.4	1000	32.1507	35.2740	2.67923	2.20462	1

Unit	Kilograms	Pounds (Troy)	Pounds (Avoir.)	Metric Tons	Net (Short) Tons	Gross (Long) Tons
1 METRIC TON =	1000	2679.23	2204.62	1	1.10231	.984206
1 NET (SHORT) TON =	907.185	2430.56	2000	.907185	1	.892857
1 GROSS (LONG) TON =	1016.05	2722.22	2240	1.01605	1.12	1

Volume and Capacity Equivalents

Unit	Cubic Centimeters	Cubic Inches	Liters	Quarts (Liquid)	Quarts (Dry)	Gallons (Liquid)	Gallons (Dry)	Cubic Feet
1 CU. CENTIMETER =	1	.06102	.001	.00106	.00091	.00026	.00023	.00004
1 CU. INCH =	16.387	1	.01639	.01732	.01488	.00433	.00372	.00058
1 GILL =	118.29	7.2188	.11829	.125	.10742	.03125	.02686	.00418
1 PINT (LIQUID) =	473.18	28.875	.47318	.5	.42968	.125	.10742	.01671
1 PINT (DRY) =	550.62	33.600	.55062	.58182	.5	.14546	.125	.01945
1 LITER =	1000	61.023	1	1.0567	.90808	.26417	.22702	.03531
1 QUART (LIQUID) =	946.36	57.75	.94636	1	.85937	.25	.21484	.03342
1 QUART (DRY) =	1101.2	67.201	1.1012	1.1637	1	.29091	.25	.03889
1 GALLON (LIQUID) =	3785.4	231	3.7854	4	3.4375	1	.85937	.13368
1 GALLON (DRY) =	4404.9	268.80	4.4049	4.6546	4	1.1636	1	.15556
1 PECK =	8809.8	537.61	8.8098	9.3092	8	2.3273	2	.31111
1 CU. FOOT =	28317.0	1728	28.317	29.922	25.714	7.4805	6.4285	1
1 BUSHEL =	35239.3	2150.4	35.239	37.237	32	9.3092	8	1.2445
1 BARREL =	119241.2	7276.5	119.24	126	108.28	31.5	27.070	4.2109
1 CU. YARD =	764559.4	46656	764.56	807.90	694.28	201.97	173.57	27
1 CU. METER =	1000000	61023.4	1000	1056.7	908.08	264.17	227.02	35.314

English Metric System Equivalents

Area Equivalents

Unit	Square Inches	Square Feet	Square Yards	Square Meters
1 SQUARE FOOT =	144	1	.1111	.09290
1 SQUARE YARD =	1296	9	1	.83613
1 SQUARE METER =	1550	10.7639	1.19599	1
1 SQUARE ROD =	39204	272.25	30.25	25.293
1 ARE =	155000	1076.39	119.599	100
1 ACRE =	6272640	43560	4840	4046.86
1 SQUARE MILE (640 ACRES) =	–	27878400	3097600	2589999
1 SQUARE KILOMETER =	–	10763867	1195985	1000000

Power Equivalents

Unit	BTU/Hour	Foot-Pound/Hour	Foot-Pound/Minute	HP	HP (Metric)	Watt	Kilowatt
1 BTU/HR. =	1	778.1688	12.96948	.000393	.000398	.293071	.000293
1 FT.LB./HR. =	.001285	1	–	5.05×10^{-7}	5.12×10^{-7}	.0003766	3.766×10^{-7}
1 FT.LB./MIN. =	.077104	–	1	3.0303×10^{-5}	3.072×10^{-7}	.022597	2.26×10^{-5}
1 HP =	2544.43	1980000	33000	1	1.01387	745.699	.7457
1 HP MET. =	2509.622	1952914	32548.56	.986320	1	735.499	.735499
1 WATT =	3.41214	2655.224	44.2537	.0013410	.0013596	1	.001

NOTE: Foot-Pounds indicates energy.
Pound-Feet indicates torque (Page M-2).

Metric System

Length

1 meter (m) = 10 decimeters(dm); 100 centimeters(cm); 1,000 millimeters(mm)
1 dekameter (dkm) = 10 meters (m)
1 hectometer (hm) = 100 meters (m)
1 kilometer (km) = 1,000 meters (m)

Weight

1 gram (g) = 10 decigrams (dg); 100 centigrams (cg); 1,000 milligrams (mg)
1 dekagram (dkg) = 10 grams (g)
1 hectogram (hg) = 100 grams (g)
1 kilogram (kg) = 1000 grams (g)
1 metric ton = 1000 kilograms (kg); 1,000,000 grams (g)

Volume & Capacity

1 liter (l) = 1 cubic decimeter(dm^3); 10 deciliters (dl); 100 centiliters(cl); 1,000 milliliters (ml); 1,000 cubic centimeters (cm^3or cc)
1 dekaliter (dkl) = 10 liters (l)
1 hectoliter (hl) = 100 liters (l)
1 kiloliter (kl) = 1 cubic meter (m^3); 1 stere (s); 1,000 liters (l)

Area

1 centare (ca) = 1 square meter (m^2); 100 square decimeters (dm^2); 10,000 square centameters (cm^2); 1,000,000 square millimeters (mm^2)
1 are (a) = 1 square dekameter (dkm^2); 100 square meters (m^2)
1 hectare (ha) = 100 ares (a); 10,000 square meters (m^2)
1 square kilometer (km^2) = 1,000,000 square meters (m^2)

Other prefixes commonly used:

micro — one millionth
deca — 10 times (same as deka)
myria — 10,000 times
mega — 1,000,000 times

Engineering Formulas and Constants

Circle
Area = Square of Diameter × .7854
or square of Radius × 3.1416
Circumference = Diameter × 3.1416
Diameter = Circumference × .3183

Doubling diameter increases area four times; tripling diameter increases area nine times, etc.

Square
Area = Square of Side
Diagonal = Side × 1.4142
Side = Diagonal × .7071

Square Inscribed in Circle
Side of Square = Diameter of Circle × .7071
or Circumference of Circle × .2251
Diameter of Circle = Side of Square × 1.4142
Circumference of Circle = Side of Square × 4.4429

Square and Circle with Equal Area
Side of Square = Diameter of Circle × .8862
Diameter of Circle = Side of Square × 1.128
Circumference of Circle = Side of Square × 3.545

Rectangle
Area = Length × Width
Diagonal = Square root of sum of squares of Width and Length

Triangle
Area = Base × ½ of Perpendicular Height

Sphere
Area of Surface = Square of Diameter × 3.1416
Volume = Cube of Diameter × .5236

Cube
Area of Surface = Square of Side × 6
Volume = Cube of Side
Diagonal = Side × 1.732

Cylinder
Area of Curved Surface = Diameter × Length × 3.1416
Volume = Square of Diameter × Length × .7854

Cone
Area of Curved Surface = Diameter of Base × Slant Height × 1.5708
Volume = Diameter of Base Squared × Perpindicular Height × .2618 or Area of Base × ⅓ Perpendicular Height

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1 HP = 33,000 Foot-pounds of work per minute.
1 BTU = Heat required to raise 1 pound of water °F.
1 Kilowatt Hour = 3415 BTU
1 Radian = 57.296 degrees.
1 Register Ton = 100 cubic feet
1 U.S. Shipping Ton = 40 cubic feet
1 British Shipping Ton = 42 cubic feet
1 Cubic Foot/Minute = 471.9474 cubic cm/second
1 Cubic Foot/Minute = .1246753 gallons (U.S.)/second
1 Cubic Foot/Second = 2.2222 cubic yards/minute
1 Gallon (U.S.)/Minute = 8.020834 cubic feet/hour
1 Gallon (U.S.)/Minute = 3.785412 liter/minute
1 Liter/Minute = 2.118880 cubic feet/hour
1 Cubic Mitre/Minute = 264.1720 Gallons (U.S.)/Minute
1 Pound/Gallon (U.S.) = 7.480519 pound/cubic feet
1 Mile/Hour = 88 feet/minute
1 Foot/Minute = .01136364 miles/hour

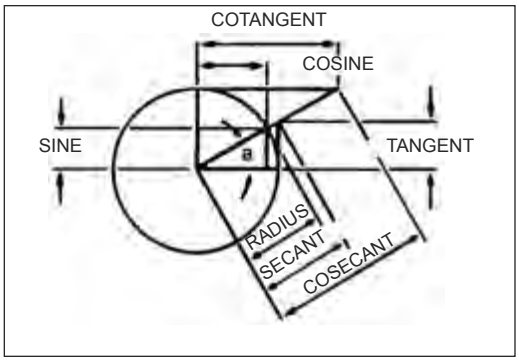
1 Pound per Square Inch Pressure (PSI) = 144 pounds/square foot = 2.3095 feet fresh water at 62°F = 2.0355 inches mercury at 32°F = 2.0416 inches mercury at 62°F = .068 atmospheres.
Water Pressure (pounds per square inch) = .433 × height of water in feet (Fresh water at 62°F).
Weight of 1 cubic foot of fresh water = 62.355 pounds at 62°F = 59.76 pounds at 212°F.
Weight of 1 gallon (U.S.) water = 8.34 pounds
Weight of 1 cubic foot of Air at 14.7 lbs per square inch Pressure = .07608 pounds at 62°F = .08703 pounds at 32°F.
Watts = Amperes × Volts
1 Watt-Hour = 3.41214 BTU = 859.845 Calorie = 3600 Joule.
g = Acceleration due to gravity at Sea Level, Latitude 45° = 32.1726 Feet/Second squared.
1 pound-foot (torque) = 1.355818 Newton-Metre.

Area/Circumference Table

Circumferences and Areas of Circles (1 — 31⅞ Diameters)

Diameter	Circumference	Area	Diameter	Circumference	Area	Diameter	Circumference	Area	Diameter	Circumference	Area
1	3.1416	0.7854	5½	17.2788	23.758	14	43.9823	153.94	23	72.2566	415.48
1 1/16	3.3379	0.8866	5 5/16	17.4751	24.301	14 1/8	44.3750	156.70	23 1/8	72.6493	420.00
1 1/8	3.5343	0.9940	5 5/8	17.6715	24.850	14 1/4	44.7677	159.48	23 1/4	73.0420	424.56
1 3/16	3.7306	1.1075	5 11/16	17.8678	25.406	14 3/8	45.1604	162.30	23 3/8	73.4347	429.13
1 1/4	3.9270	1.2272	5¾	18.0642	25.967	14½	45.5531	165.13	23½	73.8274	433.74
1 5/16	4.1233	1.3530	5 13/16	18.2605	26.535	14 5/8	45.9458	167.99	23 5/8	74.2201	438.36
1 3/8	4.3197	1.4849	5 7/8	18.4569	27.100	14 3/4	46.3385	170.87	23 3/4	74.6128	443.01
1 7/16	4.5160	1.6230	5 15/16	18.6532	27.688	14 7/8	46.7312	173.78	23 7/8	75.0055	447.69
1½	4.7124	1.7671	6	18.8496	28.274	15	47.1239	176.71	24	75.3982	452.39
1 9/16	4.9087	1.9175	6 1/8	19.2423	29.465	15 1/8	47.5166	179.67	24 1/8	75.7909	457.11
1 5/8	5.1051	2.0739	6 1/4	19.6350	30.680	15 1/4	47.9093	182.65	24 1/4	76.1836	461.86
1 11/16	5.3014	2.2365	6 3/8	20.0277	31.919	15 3/8	48.3020	185.66	24 3/8	76.5763	466.64
1¾	5.4978	2.4053	6½	20.4204	33.183	15½	48.6947	188.69	24½	76.9690	471.44
1 13/16	5.6941	2.5802	6 5/8	20.8131	34.472	15 5/8	49.0874	191.75	24 5/8	77.3617	476.26
1 7/8	5.8905	2.7612	6¾	21.2058	35.785	15¾	49.4801	194.83	24¾	77.7544	481.11
1 15/16	6.0868	2.9483	6 7/8	21.5984	37.122	15 7/8	49.8728	197.93	24 7/8	78.1471	485.98
2	6.2832	3.1416	7	21.9911	38.485	16	50.2655	201.06	25	78.5398	490.87
2 1/16	6.4795	3.3410	7 1/8	22.3838	39.871	16 1/8	50.6582	204.22	25 1/8	78.9325	495.79
2 1/8	6.6759	3.5466	7 1/4	22.7765	41.282	16 1/4	51.0509	207.39	25 1/4	79.3252	500.74
2 3/16	6.8722	3.7583	7 3/8	23.1692	42.718	16 3/8	51.4436	210.60	25 3/8	79.7179	505.71
2¼	7.0686	3.9761	7½	23.5619	44.179	16½	51.8363	213.82	25½	80.1106	510.71
2 5/16	7.2649	4.2000	7 5/8	23.9546	45.664	16 5/8	52.2290	217.08	25 5/8	80.5033	515.72
2 3/8	7.4613	4.4301	7¾	24.3473	47.173	16¾	52.6217	220.35	25¾	80.9060	520.77
2 7/16	7.6576	4.6664	7 7/8	24.7400	48.707	16 7/8	53.0144	223.65	25 7/8	81.2887	525.84
2½	7.8540	4.9087	8	25.1327	50.265	17	53.4071	226.98	26	81.6814	530.93
2 9/16	8.0503	5.1572	8 1/8	25.5254	51.849	17 1/8	53.7998	230.33	26 1/8	82.0741	536.05
2 5/8	8.2467	5.4119	8 1/4	25.9181	53.456	17 1/4	54.1925	233.71	26 1/4	82.4668	541.19
2 11/16	8.4430	5.6727	8 3/8	26.3108	55.088	17 3/8	54.5852	237.10	26 3/8	82.8595	546.35
2¾	8.6394	5.9396	8½	26.7035	56.745	17½	54.9779	240.53	26½	83.2522	551.55
2 13/16	8.8357	6.2126	8 5/8	27.0962	58.426	17 5/8	55.3706	243.98	26 5/8	83.6449	556.76
2 7/8	9.0321	6.4918	8¾	27.4889	60.132	17¾	55.7633	247.45	26¾	84.0376	562.00
2 15/16	9.2284	6.7771	8 7/8	27.8816	61.862	17 7/8	56.1560	250.95	26 7/8	84.4303	567.27
3	9.4248	7.0686	9	28.2743	63.617	18	56.5487	254.47	27	84.8230	572.56
3 1/16	9.6211	7.3662	9 1/8	28.6670	65.397	18 1/8	56.9414	258.02	27 1/8	85.2157	577.87
3 1/8	9.8175	7.6699	9 1/4	29.0597	67.201	18 1/4	57.3341	261.59	27 1/4	85.6084	583.21
3 3/16	10.0138	7.9798	9 3/8	29.4524	69.029	18 3/8	57.7268	265.18	27 3/8	86.0011	588.57
3¼	10.2102	8.2958	9½	29.8451	70.882	18½	58.1195	268.80	27½	86.3938	593.96
3 5/16	10.4065	8.6179	9 5/8	30.2378	72.760	18 5/8	58.5122	272.45	27 5/8	86.7865	599.37
3 3/8	10.6029	8.9462	9¾	30.6305	74.662	18¾	58.9049	276.12	27¾	87.1792	604.81
3 7/16	10.7992	9.2806	9 7/8	31.0232	76.589	18 7/8	59.2976	279.81	27 7/8	87.5719	610.27
3½	10.9956	9.6211	10	31.4159	78.540	19	59.6903	283.53	28	87.965	615.75
3 9/16	11.1919	9.9678	10 1/8	31.8086	80.516	19 1/8	60.0830	287.27	28 1/8	88.357	621.26
3 5/8	11.3883	10.321	10 1/4	32.2013	82.516	19 1/4	60.4757	291.04	28 1/4	88.750	626.80
3 11/16	11.5846	10.680	10 3/8	32.5940	84.541	19 3/8	60.8684	294.83	28 3/8	89.143	632.36
3¾	11.7810	11.045	10½	32.9867	86.590	19½	61.2611	298.65	28½	89.535	637.94
3 13/16	11.9773	11.416	10 5/8	33.3794	88.664	19 5/8	61.6538	302.49	28 5/8	89.928	643.55
3 7/8	12.1737	11.793	10¾	33.7721	90.763	19¾	62.0465	306.35	28¾	90.321	649.18
3 15/16	12.3700	12.177	10 7/8	34.1648	92.886	19 7/8	62.4392	310.24	28 7/8	90.713	654.84
4	12.5664	12.566	11	34.5575	95.033	20	62.8319	314.16	29	91.106	660.52
4 1/16	12.7627	12.962	11 1/8	34.9502	97.205	20 1/8	63.2246	318.10	29 1/8	91.499	666.23
4 1/8	12.9591	13.364	11 1/4	35.3429	99.402	20 1/4	63.6173	322.06	29 1/4	91.892	671.96
4 3/16	13.1554	13.772	11 3/8	35.7356	101.62	20 3/8	64.0100	326.05	29 3/8	92.284	677.71
4¼	13.3518	14.185	11½	36.1283	103.87	20½	64.4026	330.06	29½	92.677	683.49
4 5/16	13.5481	14.607	11 5/8	36.5210	106.14	20 5/8	64.7953	334.10	29 5/8	93.070	689.30
4 3/8	13.7445	15.033	11¾	36.9137	108.43	20¾	65.1880	338.16	29¾	93.462	695.13
4 7/16	13.9408	15.466	11 7/8	37.3064	110.75	20 7/8	65.5807	342.25	29 7/8	93.855	700.98
4½	14.1372	15.904	12	37.6991	113.10	21	65.9734	346.36	30	94.248	706.86
4 9/16	14.3335	16.349	12 1/8	38.0918	115.47	21 1/8	66.3661	350.50	30 1/8	94.640	712.70
4 5/8	14.5299	16.800	12 1/4	38.4845	117.86	21 1/4	66.7588	354.66	30 1/4	95.033	718.69
4 11/16	14.7262	17.257	12 3/8	38.8772	120.28	21 3/8	67.1515	358.84	30 3/8	95.426	724.64
4¾	14.9226	17.721	12½	39.2699	122.72	21½	67.5442	363.05	30½	95.819	730.62
4 13/16	15.1189	18.190	12 5/8	39.6626	125.19	21 5/8	67.9369	367.28	30 5/8	96.211	736.62
4 7/8	15.3153	18.665	12¾	40.0553	127.68	21¾	68.3296	371.54	30¾	96.604	742.64
4 15/16	15.5116	19.147	12 7/8	40.4480	130.19	21 7/8	68.7223	375.83	30 7/8	96.997	748.69
5	15.7080	19.635	13	40.8407	132.73	22	69.1150	380.13	31	97.389	754.77
5 1/16	15.9043	20.129	13 1/8	41.2334	135.30	22 1/8	69.5077	384.46	31 1/8	97.782	760.87
5 1/8	16.1007	20.629	13 1/4	41.6261	137.89	22 1/4	69.9004	388.82	31 1/4	98.175	766.99
5 3/16	16.2970	21.135	13 3/8	42.0188	140.50	22 3/8	70.2931	393.20	31 3/8	98.567	773.14
5¼	16.4934	21.648	13½	42.4115	143.14	22½	70.6858	397.61	31½	98.960	779.31
5 5/16	16.6897	22.166	13 5/8	42.8042	145.80	22 5/8	71.0785	402.04	31 5/8	99.353	785.51
5 3/8	16.8861	22.691	13¾	43.1969	148.49	22¾	71.4712	406.49	31¾	99.746	791.73
5 7/16	17.0824	23.221	13 7/8	43.5896	151.20	22 7/8	71.8639	410.97	31 7/8	100.138	797.98

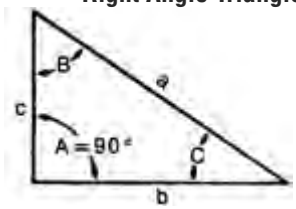
Trigonometric Functions



Trigonometric Formulas

(See pages that follow for functions)

Right Angle Triangle



Formulas for Finding Functions of Angles

$\frac{\text{Side Opposite}}{\text{Hypotenuse}}$ = Sine

$\frac{\text{Side Adjacent}}{\text{Hypotenuse}}$ = Cosine

$\frac{\text{Side Opposite}}{\text{Side Adjacent}}$ = Tangent

$\frac{\text{Side Adjacent}}{\text{Side Opposite}}$ = Cotangent

$\frac{\text{Hypotenuse}}{\text{Side Adjacent}}$ = Secant

$\frac{\text{Hypotenuse}}{\text{Side Opposite}}$ = Cosecant

Formulas for Finding Sides of Right Angle Triangles with an Angle and Side Known

To Find: Length of side opposite
- Hypotenuse × Sine
- Hypotenuse ÷ Cosecant
- Side Adjacent × Tangent
- Side Adjacent ÷ Cotangent

To Find: Length of side adjacent
- Hypotenuse × Cosine
- Hypotenuse ÷ Secant
- Side Opposite × Cotangent
- Side Opposite ÷ Tangent

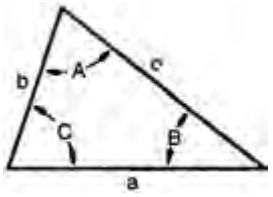
To Find: Length of hypotenuse
- Side Opposite × Cosecant
- Side Opposite ÷ Sine
- Side Adjacent × Secant
- Side Adjacent ÷ Cosine

To Find Angles and Sides of Right Angle Triangles

To Find Angles		To Find Sides		
To Find:	Formulas	To Find:	Formulas	
C	$\frac{c}{a}$ = Sin. C	a	$\sqrt{b^2 + c^2}$	—
C	$\frac{b}{a}$ = Cos. C	a	c × Cosec. C	$\frac{c}{\text{Sin. C}}$
C	$\frac{c}{b}$ = Tan. C	a	c × Sec. B	$\frac{c}{\text{Cos. B}}$
C	$\frac{b}{c}$ = Cotan. C	a	b × Cosec. B	$\frac{b}{\text{Sin. B}}$
C	$\frac{a}{b}$ = Sec. C	a	b × Sec. C	$\frac{b}{\text{Cos. C}}$
C	$\frac{a}{c}$ = Cosec. C	b	$\sqrt{a^2 - c^2}$	—
B	$\frac{b}{a}$ = Sin. B	b	a × Sin. B	$\frac{a}{\text{Cosec. B}}$
B	$\frac{c}{a}$ = Cos. B	b	a × Cos. C	$\frac{a}{\text{Sec. C}}$
B	$\frac{b}{c}$ = Tan. B	b	c × Tan. B	$\frac{c}{\text{Cotan. B}}$
B	$\frac{c}{b}$ = Cotan. B	b	c × Cot. C	$\frac{c}{\text{Tan. C}}$
B	$\frac{a}{c}$ = Sec. B	c	$\sqrt{a^2 - b^2}$	—
B	$\frac{a}{b}$ = Cosec. B	c	a × Cos. B	$\frac{a}{\text{Sec. B}}$
		c	a × Sin. C	$\frac{a}{\text{Cosec. C}}$
		c	b × Cot. B	$\frac{b}{\text{Tan. B}}$
		c	b × Tan. C	$\frac{b}{\text{Cotan. C}}$

To Find Angles and Sides of Oblique Angle Triangles

Oblique Angle Triangle



To Find	Known	Formulas	To Find	Known	Formulas
C	A, B	180° – (A +B)	A	B, C	180° – (B + C)
b	a, B, A	$\frac{a \times \text{Sin. B}}{\text{Sin. A}}$	Cos. A	a, b, c	$\frac{b^2 + c^2 - a^2}{2bc}$
c	a, A, C	$\frac{a \times \text{Sin. C}}{\text{Sin. A}}$	Sin. C	c, A, a	$\frac{c \times \text{Sin. A}}{a}$
Tan. A	a, C, b	$\frac{a \times \text{Sin. C}}{b - (a \times \text{Cos. C})}$	Cot. B	a, C, b	$\frac{a \times \text{Cosec. C}}{b} - \text{Cot. C}$
B	A, C	180° – (A + C)	c	b, C, B	b × Sin. C × Cosec. B
Sin. B	b, A, a	$\frac{b \times \text{Sin. A}}{a}$	—	—	—

Trigonometric Functions

°	'	Sine	Tan.	Cotan.	Cosine	'	°	°	'	Sine	Tan.	Cotan.	Cosine	'	°
0	0	.000000	.000000	INFINITE	1.000000	0	90	11	0	.190809	.194380	5.1445540	.981627	0	79
	10	.002909	.002909	343.77371	.999996	50			10	.913664	.197401	5.0658352	.981068	50	
	20	.005818	.005818	171.88540	.999983	40			20	.196517	.200425	4.9894027	.980500	40	
	30	.008727	.008727	114.58865	.999962	30			30	.199368	.203452	4.9151570	.979925	30	
	40	.011635	.011636	85.939791	.999932	20			40	.202218	.206483	4.8430045	.979341	20	
	50	.014544	.014545	68.750087	.999894	10			50	.205065	.209518	4.7728568	.978748	10	
1	0	.017452	.017455	57.289962	.999848	0	89	12	0	.207912	.212557	4.7046301	.978148	0	78
	10	.020361	.020365	49.103881	.999793	50			10	.210756	.215599	4.6382457	.977539	50	
	20	.023269	.023275	42.964077	.999729	40			20	.213599	.218645	4.5736287	.976921	40	
	30	.026177	.026186	38.188459	.999657	30			30	.216440	.221695	4.5107085	.976296	30	
	40	.029085	.029097	34.367771	.999577	20			40	.219279	.224748	4.4494181	.975662	20	
	50	.031992	.032009	31.241577	.999488	10			50	.222116	.227806	4.3896940	.975020	10	
2	0	.034899	.034921	28.636253	.999391	0	88	13	0	.224951	.230868	4.3314759	.974370	0	77
	10	.037806	.037834	26.431600	.999285	50			10	.227784	.233934	4.2747066	.973712	50	
	20	.040713	.040747	24.541758	.999171	40			20	.230616	.237004	4.2193318	.973045	40	
	30	.043619	.043661	22.903766	.999048	30			30	.233445	.240079	4.1652998	.927370	30	
	40	.046525	.046576	21.470401	.998917	20			40	.236273	.243158	4.1125614	.971687	20	
	50	.049431	.049491	20.205553	.998778	10			50	.239098	.246241	4.0610700	.970995	10	
3	0	.052336	.052408	19.081137	.998630	0	87	14	0	.241922	.249328	4.0107809	.970296	0	76
	10	.055241	.055325	18.074977	.998473	50			10	.244743	.252420	3.9616518	.969588	50	
	20	.058145	.058243	17.169337	.998308	40			20	.247563	.255517	3.9136420	.968872	40	
	30	.061049	.061163	16.349855	.998135	30			30	.250380	.258618	3.8667131	.968148	30	
	40	.063952	.064083	15.604784	.997957	20			40	.253195	.261723	3.8208281	.967415	20	
	50	.066854	.067004	14.924417	.997763	10			50	.256008	.264834	3.7759519	.966675	10	
4	0	.069756	.069927	14.300666	.997564	0	86	15	0	.258819	.267949	3.7320508	.965926	0	75
	10	.072658	.072851	13.726738	.997357	50			10	.261628	.271069	3.6890927	.965169	50	
	20	.075559	.075776	13.196888	.997141	40			20	.264434	.274195	3.6470467	.964404	40	
	30	.078459	.078702	12.706205	.996917	30			30	.267238	.277325	3.6058835	.963630	30	
	40	.081359	.081629	12.250505	.996685	20			40	.270040	.280460	3.5655749	.962849	20	
	50	.084258	.084558	11.826167	.996444	10			50	.272840	.283600	3.5260938	.962059	10	
5	0	.087156	.087489	11.430052	.996195	0	85	16	0	.275637	.286745	3.4874144	.961262	0	74
	10	.090053	.090421	11.059431	.995937	50			10	.278432	.289896	3.4495120	.960456	50	
	20	.092950	.093354	10.711913	.995671	40			20	.281225	.293052	3.4123626	.959642	40	
	30	.095846	.096289	10.385397	.995396	30			30	.284015	.296214	3.3759434	.958820	30	
	40	.098741	.099226	10.078031	.995113	20			40	.286803	.299380	3.3402326	.957990	20	
	50	.101635	.102164	9.7881732	.994822	10			50	.289589	.302553	3.3052091	.957151	10	
6	0	.104528	.105104	9.5143645	.994522	0	84	17	0	.292372	.305731	3.2708526	.956305	0	73
	10	.107421	.108046	9.2553035	.994214	50			10	.295152	.308914	3.2371438	.955450	50	
	20	.110313	.110990	9.0098261	.993897	40			20	.297930	.312104	3.2040638	.954588	40	
	30	.113203	.113936	8.7768874	.993572	30			30	.300706	.315299	3.1715948	.953717	30	
	40	.116093	.116883	8.5555468	.993238	20			40	.303479	.318500	3.1397194	.952838	20	
	50	.118982	.119833	8.3449558	.922896	10			50	.306249	.321707	3.1084210	.951951	10	
7	0	.121869	.122785	8.1443464	.992546	0	83	18	0	.309017	.324920	3.0776835	.951057	0	72
	10	.124756	.125738	7.9530224	.992187	50			10	.311782	.328139	3.0474915	.950154	50	
	20	.127642	.128694	7.7703506	.991820	40			20	.314545	.331364	3.0178301	.949243	40	
	30	.130526	.131653	7.5957541	.991445	30			30	.317305	.334595	2.9886850	.948324	30	
	40	.133410	.134613	7.4287064	.991061	20			40	.320062	.337833	2.9600422	.947397	20	
	50	.136292	.137576	7.2687255	.990669	10			50	.322816	.341077	2.9318885	.946462	10	
8	0	.139173	.140541	7.1153697	.990268	0	82	19	0	.325568	.344328	2.9042109	.945519	0	71
	10	.142053	.143508	6.9682335	.989859	50			10	.328317	.347585	2.8769970	.944568	50	
	20	.144932	.146478	6.8269437	.989442	40			20	.331063	.350848	2.8502349	.943609	40	
	30	.147809	.149451	6.6911562	.959016	30			30	.333807	.354119	2.8239129	.942641	30	
	40	.150686	.152426	6.5605538	.988582	20			40	.336547	.357396	2.7980198	.941666	20	
	50	.153561	.155404	6.4348428	.988139	10			50	.339285	.360680	2.7725448	.940684	10	
9	0	.156434	.158384	6.3137515	.987688	0	81	20	0	.342020	.363970	2.7474774	.939693	0	70
	10	.159307	.161368	6.1970279	.987229	50			10	.344752	.367268	2.7228076	.938694	50	
	20	.162178	.164354	6.0844381	.986762	40			20	.347481	.370573	2.6985254	.937687	40	
	30	.165048	.167343	5.9757644	.986286	30			30	.350207	.373885	2.6746215	.936672	30	
	40	.167916	.170334	5.8708042	.985801	20			40	.352931	.377204	2.6510867	.935650	20	
	50	.170783	.173329	5.7693688	.985309	10			50	.355651	.380530	2.6279121	.934619	10	
10	0	.173648	.176327	5.6712818	.984808	0	80	21	0	.358368	.383864	2.6050891	.933580	0	69
	10	.176512	.179328	5.5763786	.984298	50			10	.361082	.387205	2.5826094	.932534	50	
	20	.179375	.182332	5.4845052	.983781	40			20	.363793	.390554	2.5604649	.931480	40	
	30	.182236	.185339	5.3955172	.983255	30			30	.366501	.393911	2.5386479	.930418	30	
	40	.185095	.188359	5.3092793	.982721	20			40	.369206	.397275	2.5171507	.929348	20	
	50	.187953	.191363	5.2256647	.982178	10	79		50	.371908	.400647	2.4959661	.928270	10	68
°	'	Cosine	Cotan.	Tan.	Sine	'	°	°	'	Cosine	Cotan.	Tan.	Sine	'	°

NOTE: For functions from 45°-0' to 68° read from bottom of table upward.

Trigonometric Tables

Trigonometric Functions

°	'	Sine	Tan.	Cotan.	Cosine	'	°	°	'	Sine	Tan.	Cotan.	Cosine	'	°
22	0	.374607	.404026	2.4750869	.927184	0	68	34	0	.559193	.674509	1.4825610	.829038	0	56
	10	.377302	.407414	2.4545061	.926090	50			10	.561602	.678749	1.4732983	.827407	50	
	20	.379994	.410810	2.4342172	.924980	40			20	.564007	.683007	1.4641147	.825770	40	
	30	.382683	.414214	2.4142136	.923880	30			30	.566406	.687281	1.4550090	.824126	30	
	40	.385369	.417626	2.3944889	.922762	20			40	.568801	.691573	1.4459801	.822475	20	
	50	.388052	.421046	2.3750372	.921638	10			50	.571191	.695881	1.4370268	.820817	10	
23	0	.390731	.424475	2.3558524	.920505	0	67	35	0	.573576	.700208	1.4281480	.819152	0	55
	10	.393407	.427912	2.3369287	.919364	50			10	.575957	.704552	1.4193427	.817480	50	
	20	.396080	.431358	2.3182606	.918216	40			20	.578332	.708913	1.4106098	.815801	40	
	30	.398749	.434812	2.2998425	.917060	30			30	.580703	.713293	1.4019483	.814116	30	
	40	.401415	.438276	2.2816693	.915896	20			40	.583069	.717691	1.3933571	.812423	20	
	50	.404078	.441748	2.2637357	.914725	10			50	.585429	.722108	1.3848355	.810723	10	
24	0	.406737	.445229	2.2460368	.913545	0	66	36	0	.587785	.726543	1.3763810	.809017	0	54
	10	.409392	.448719	2.2285676	.912358	50			10	.590136	.730996	1.3679959	.807304	50	
	20	.412045	.452218	2.2113234	.911164	40			20	.592482	.735469	1.3596764	.805584	40	
	30	.414693	.455726	2.1942997	.909961	30			30	.594823	.739961	1.3514224	.803857	30	
	40	.417338	.459244	2.1774920	.908751	20			40	.597159	.744472	1.3432331	.802123	20	
	50	.419980	.462771	2.1608958	.907533	10			50	.599489	.749003	1.3351075	.800383	10	
25	0	.422618	.466308	2.1445069	.906308	0	65	37	0	.601815	.753554	1.3270448	.798636	0	53
	10	.425253	.469854	2.1283213	.905075	50			10	.604136	.758125	1.3190441	.796882	50	
	20	.427884	.473410	2.1123348	.903834	40			20	.606451	.762716	1.3111046	.795121	40	
	30	.430511	.476976	2.0965436	.902585	30			30	.608761	.767327	1.3032254	.793353	30	
	40	.433125	.480551	2.0809438	.901329	20			40	.611067	.771959	1.2954057	.791579	20	
	50	.435755	.484137	2.0655318	.900065	10			50	.613367	.776612	1.2876447	.789798	10	
26	0	.438371	.487733	2.0503038	.898794	0	64	38	0	.615661	.781286	1.2799416	.788011	0	52
	10	.440984	.491339	2.0352565	.897515	50			10	.617951	.785981	1.2722957	.786217	50	
	20	.443593	.494955	2.0203862	.896229	40			20	.620235	.790698	1.2647062	.784416	40	
	30	.446197	.498582	2.0056897	.894934	30			30	.622515	.795436	1.2571723	.782608	30	
	40	.448799	.502219	1.9911637	.893633	20			40	.624789	.800196	1.2496933	.780794	20	
	50	.451397	.505867	1.9768050	.892323	10			50	.627057	.804980	1.2422685	.778973	10	
27	0	.453990	.509525	1.9626105	.891007	0	63	39	0	.692320	.809784	1.2348972	.777146	0	51
	10	.456580	.513195	1.9485772	.889682	50			10	.631578	.814612	1.2275786	.775312	50	
	20	.459166	.516876	1.9347020	.888350	40			20	.633831	.819463	1.2203121	.773472	40	
	30	.461749	.520567	1.9209821	.887011	30			30	.636078	.824336	1.2130970	.771625	30	
	40	.464327	.524270	1.9074147	.885664	20			40	.638320	.829234	1.2059327	.769771	20	
	50	.466901	.527984	1.8939971	.884309	10			50	.640557	.834155	1.1988184	.767911	10	
28	0	.469472	.531709	1.8807265	.882948	0	62	40	0	.642788	.839100	1.1917536	.766044	0	50
	10	.472038	.535547	1.8676003	.881578	50			10	.645013	.844069	1.1847376	.764171	50	
	20	.474600	.539195	1.8546159	.880201	40			20	.647233	.849062	1.1777698	.762292	40	
	30	.477149	.542956	1.8417709	.878817	30			30	.649448	.854081	1.1708496	.760406	30	
	40	.479713	.546728	1.8290628	.877425	20			40	.651657	.859124	1.1639763	.758514	20	
	50	.482263	.550515	1.8164892	.876026	10			50	.653861	.864193	1.1571495	.756615	10	
29	0	.484810	.554309	1.8040478	.874620	0	61	41	0	.656059	.869287	1.1503684	.754710	0	49
	10	.487352	.558118	1.7917362	.873206	50			10	.658252	.874407	1.1436326	.752798	50	
	20	.489890	.561939	1.7795524	.871784	40			20	.660439	.879553	1.1369414	.750880	40	
	30	.492424	.565773	1.7674940	.870356	30			30	.662620	.884725	1.1302944	.748956	30	
	40	.494953	.569619	1.7555590	.868920	20			40	.664796	.889924	1.1236909	.747025	20	
	50	.497479	.573478	1.7437453	.867476	10			50	.666966	.895151	1.1171305	.745088	10	
30	0	.500000	.577350	1.7320508	.866025	0	60	42	0	.669131	.900404	1.1106125	.743145	0	48
	10	.502517	.581235	1.7204736	.864567	50			10	.671289	.905685	1.1041365	.741195	50	
	20	.505030	.585134	1.7090116	.863102	40			20	.673443	.910994	1.0977020	.739239	40	
	30	.507538	.589045	1.6976631	.861629	30			30	.675590	.916331	1.0913085	.737277	30	
	40	.510043	.592970	1.6864261	.860149	20			40	.677732	.921697	1.0849554	.735309	20	
	50	.512543	.596908	1.6752988	.858662	10			50	.679868	.927021	1.0786423	.733335	10	
31	0	.515038	.600861	1.6642795	.857167	0	59	43	0	.681998	.932515	1.0723687	.731354	0	47
	10	.517529	.604827	1.6533663	.855665	50			10	.684123	.937968	1.0661341	.729367	50	
	20	.520016	.608807	1.6425576	.854156	40			20	.686242	.943451	1.0599381	.727374	40	
	30	.522499	.612801	1.6318517	.852640	30			30	.688355	.948965	1.0537801	.725374	30	
	40	.524977	.616809	1.6212469	.851117	20			40	.690462	.954508	1.0476598	.723369	20	
	50	.527450	.620832	1.6107417	.849586	10			50	.692563	.960083	1.0415767	.721357	10	
32	0	.529919	.624869	1.6003345	.848048	0	58	44	0	.694658	.965689	1.0355303	.719340	0	46
	10	.532384	.628921	1.5900238	.846503	50			10	.696748	.971326	1.0295203	.717316	50	
	20	.534844	.632988	1.5798079	.844951	40			20	.698832	.976996	1.0235461	.715286	40	
	30	.537300	.637079	1.5696856	.843391	30			30	.700909	.982697	1.0176074	.713251	30	
	40	.539751	.641167	1.5596552	.841825	20			40	.702981	.988432	1.0117088	.711209	20	
	50	.542197	.645280	1.4597155	.840251	10			50	.705047	.994199	1.0058348	.709161	10	
33	0	.544639	.649408	1.5398650	.838671	0	57	45	0	.707107	1.000000	1.0000000	.707107	0	45
	10	.547076	.653551	1.5301025	.837083	50			—	—	—	—	—	—	
	20	.549509	.657710	1.5204261	.835488	40			—	—	—	—	—	—	
	30	.551937	.661886	1.5108352	.833886	30			—	—	—	—	—	—	
	40	.554360	.666077	1.5013282	.832277	20			—	—	—	—	—	—	
	50	.556769	.670285	1.4919039	.830661	10	56	—	—	—	—	—	—	—	
°	'	Cosine	Cotan.	Tan.	Sine	'	°	°	'	Cosine	Cotan.	Tan.	Sine	'	°

NOTE: For functions from 45°-0' to 68° read from bottom of table upward.

Conversion Tables

Given	Multiply By	To Find
ABAMPERE	10	AMPERE
ACRES	0.4046856	HECTARE
ACRES	43560	SQUARE FEET
ACRES	4046.8564	SQUARE METERS
ACRES	1.562×10^{-3}	SQUARE MILES
ARE	1076.391	SQUARE FEET
ATMOSPHERES	76	CMS. OF MERCURY
ATMOSPHERES	33.89854	FEET OF WATER
ATMOSPHERES	29.92	INCHES OF MERCURY
ATMOSPHERES	14.69595	POUNDS/SQUARE INCH
BAGS – CEMENT	94	POUNDS – CEMENT
BARRELS – OIL	5.614583	CUBIC FOOT
BARRELS – OIL	158.9873	LITER
BARRELS – OIL	42	GALLONS – OIL
BARRELS (US DRY)	3.281219	BUSHELS (US)
BARRELS (US DRY)	4.083333	CUBIC FEET
BARRELS (US DRY)	115.6271	LITER
BARRELS (US LIQ.)	4.2109375	CUBIC FEET
BARRELS (US LIQ.)	0.1192405	CUBIC METERS
BARRELS (US LIQ.)	26.22925	GALLONS (BRIT.)
BARRELS (US LIQ.)	31.5	GALLONS (US)
BARRELS – CEMENT	376	POUNDS – CEMENT
BTU	251.996	CALORIE
BTU	778.169	FOOT – POUNDS – FORCE
BTU	3.9302×10^{-4}	HORSEPOWER – HOURS
BTU	0.252	KILOGRAM – CALORIES
BTU	107.586	KILOGRAM – METERS
BTU	2.9307×10^{-4}	KILOWATT – HOURS
BTU	1055.056	JOULE
BTU/MIN.	12.96	FOOT – POUNDS/SEC.
BTU/MIN.	0.0235809	HORSEPOWER
BTU/MIN.	0.0175843	KILOWATTS
BTU/MIN.	17.5796	WATTS
BUSHELS (BRIT.)	1.032057	BUSHELS (US)
BUSHELS (BRIT.)	8	GALLONS (BRIT.)
BUSHELS (US)	0.3047647	BARRELS (US DRY)
BUSHELS (US)	1.244456	CUBIC FEET
BUSHELS (US)	9.309177	GALLONS (US LIQ.)
CALORIE	4.1868	JOULE
CALORIE	3.96832×10^{-3}	BTU
CALORIE	3.08803	FOOT – POUND – FORCE
CENTARES (CENTIARES)	1	SQUARE METERS
CENTIMETERS	0.3937008	INCHES
CENTIMETERS	.3937008	INCH
CENTIMETERS	0.01	METERS
CENTIMETERS	10	MILLIMETERS
CENTIMTRS. OF MERCURY	0.01316	ATMOSPHERES
CENTIMTRS. OF MERCURY	0.4461	FEET OF WATER
CENTIMTRS. OF MERCURY	136	KGS./SQUARE METER
CENTIMTRS. OF MERCURY	27.85	POUNDS/SQUARE FT.
CENTIMTRS. OF MERCURY	0.1934	POUNDS/SQUARE INCH
CENTIPOISE	0.001	PASCAL – SECOND
CHAIN (RAMSDEN'S)	100	FEET
CHAIN (GUNTER'S)	66	FEET
CORD	128	CUBIC FEET
CORD	3.624	STERE
COULOMB	1	AMPERE – SECOND
CUBIC CENTIMETER	0.06102	CUBIC INCHES
CUBIC CENTIMETER	0.001	LITER
CUBIC CENTIMETER	1	MILLILETER
CUBIC DECIMETER	0.0353	CUBIC FEET
CUBIC FEET	12	BOARD FEET
CUBIC FEET	0.803564	BUSHELS (US)
CUBIC FEET	1728	CUBIC INCHES
CUBIC FEET	0.0283168	CUBIC METERS
CUBIC FEET	28.317	CUBIC DECIMETERS
CUBIC FEET	0.037037	CUBIC YARD
CUBIC FEET	6.228835	GALLONS (BRIT.)
CUBIC FEET	7.480519	GALLONS (US)
CUBIC FEET	28.316847	LITERS
CUBIC FEET	25.71405	QUARTS (US DRY)
CUBIC FEET/HOUR	7.865791	CUBIC CM./SEC.
CUBIC FEET/HOUR	0.4719474	LITER/MIN.
CUBIC FEET/MIN.	0.1246753	GALLONS (US)/SEC.
CUBIC FEET/POUND	0.0624279	CUBIC METER/KILOGRAM
CUBIC METER	8.64849	BARREL (US DRY)
CUBIC METER	8.386414	BARREL (US LIQ.)
CUBIC METER	35.31467	CUBIC FEET
CUBIC METER	1.307951	CUBIC YARDS
CUBIC METER	264.1721	GALLONS (US)
CUBIC METER	1000	LITER
CUBIC YARDS	27	CUBIC FEET
CUBIC YARDS	0.7645548	CUBIC METER
CUBIC YARDS	201.974	GALLONS (US)
CUBIC YARDS/MIN.	0.45	CUBIC FEET/SEC.
CUBIC YARDS/MIN.	3.366234	GALLONS (US)/SEC.
CUBIT	18	INCH

Given	Multiply By	To Find
CUP	236.588	MILLILITER
CUP (METRIC)	200	MILLILITER
DEGREE	0.017453	RADIAN
DEGREE/SEC.	0.166667	REVOLUTION/MIN.
DENIER	0.11111(1/9)	TEX
DRACHM (BRIT. FLUID)	0.9607599	DRAM (U.S. FLUID)
DRAM (APOTH)	60	GRAINS
DRAM (AVOIR)	27.34375	GRAINS
DRAM (U.S. FLUID)	0.2255859	CUBIC INCHES
ELL	45	INCH
ERG	1×10^{-7}	JOULE
FATHOM	6	FEET
FEET OF WATER	0.0295	ATMOSPHERES
FEET OF WATER	0.8826	INCHES OF MERCURY
FEET OF WATER	304.8	KGS./SQUARE METER
FEET OF WATER	62.43	POUNDS/SQUARE FT.
FEET OF WATER	0.4335	POUNDS/SQUARE INCH
FEET/MIN.	0.508	CENTIMETERS/SEC.
FEET/MIN.	0.01667	FEET/SEC.
FEET/MIN.	0.01829	KILOMETERS/HOUR
FEET/MIN.	0.3048	METERS/MIN
FEET/MIN.	0.01136	MILES/HOUR
FEET/SEC.	30.48	CENTIMETERS/SEC.
FEET/SEC.	1.097	KILOMETERS/HOUR
FEET/SEC.	0.5921	KNOTS
FEET/SEC.	18.29	METERS/MIN.
FEET/SEC.	0.6818	MILES/HOUR
FEET/SEC.	0.01136	MILES/MIN.
FERKIN (US)	9	GALLONS (US) DRY
FOOT	30.48	CENTIMETER
FOOT	12	INCH
FOOT/MINUTE	0.3048	METER
FOOT/MINUTE	0.018288	KILOMETER/HOUR
FOOT/SECOND	0.01136364	MILE/HOUR
FOOT/SECOND	0.3048	METER/SECOND
FOOT – POUNDS – FORCE	0.6818182	MILE/HOUR
FOOT – POUNDS – FORCE	5.050×10^{-7}	HORSEPOWER – HOURS
FOOT – POUNDS – FORCE	1.35582	JOULES
FOOT – POUNDS – FORCE	3.241×10^{-4}	KILOGRAM – CALORIES
FOOT – POUNDS – FORCE	0.1383	KILOGRAM – METERS
FOOT – POUNDS – FORCE	$.766\times10^{-5}$	KILOWATT – HOURS
FOOT – POUNDS – FORCE	1.286×10^{-3}	BTU
FOOT – POUNDS/MIN.	1.286×10^{-3}	BTU/MIN.
FOOT – POUNDS/MIN.	0.01667	FOOT – POUNDS/SEC.
FOOT – POUNDS/MIN.	3.030×10^{-4}	HORSEPOWER
FOOT – POUNDS/MIN.	3.241×10^{-4}	KG. – CALORIES/MIN.
FOOT – POUNDS/MIN.	2.260×10^{-5}	KILOWATTS
FOOT – POUNDS/SEC.	7.717×10^{-2}	BTU/MIN.
FOOT – POUNDS/SEC.	1.818×10^{-3}	HORSEPOWER
FOOT – POUNDS/SEC.	1.945×10^{-2}	KG. – CALORIES/MIN.
FOOT – POUNDS/SEC.	1.355818	WATTS
FURLONG	660	FEET
FURLONG	10	CHAIN
GALLON (BRIT.)	9.632619	CUBIC FT./HOUR
GALLON (BRIT.)	0.2727654	CUBIC METER/HOUR
GALLONS (US)/MIN.	8.020834	CUBIC FEET/HOUR
GALLONS (US)/MIN.	0.2271247	CUBIC METER/HOUR
GALLON (DRY)	268.8025	CUBIC INCH
GALLONS (LIQ.)	3785.412	CUBIC CENTIMETERS
GALLONS (LIQ.)	0.1336805	CUBIC FEET
GALLONS (LIQ.)	231	CUBIC INCHES
GALLONS (LIQ.)	3.785×10^{-3}	CUBIC METERS
GALLONS (LIQ.)	4.951×10^{-3}	CUBIC YARDS
GALLONS (LIQ.)	0.8326742	GALLONS (BRIT.)
GALLONS (LIQ.)	3.785412	LITERS
GALLONS (LIQ.)	8	PINTS (LIQ.)
GALLONS (LIQ.)	4	QUARTS (LIQ.)
GALLONS WATER	8.3453	POUNDS OF WATER
GALLONS WATER/MIN.	6.0086	TONS WATER/24 HOURS
GALLONS – IMPERIAL	1.20095	U.S. GALLONS
GALLONS – U.S.	0.83267	IMPERIAL GALLONS
GALLONS (US)/MIN.	2.228×10^{-3}	CUBIC FEET/SEC.
GALLONS (US)/MIN.	8.020834	CUBIC FEET/HOUR
GALLONS (US)/MIN.	0.06308	Litros/SEC.
GILL	7.21875	CUBIC INCH
GILL	4	OUNCE (U.S.)
GILL (BRIT.)	1.20095	GILL (U.S.)
GRAINS (TROY)	0.0648	GRAMS
GRAINS/U.S. GAL.	17.118	PARTS/MILLION
GRAINS/U.S. GAL.	142.86	POUNDS/MILLION GAL.
GRAINS/U.S. GAL.	14.254	PARTS/MILLION
GRAMS	980.7	DYNES
GRAMS	15.432358	GRAINS
GRAMS	10^{-3}	KILOGRAMS
GRAMS	10^{3}	MILLIGRAMS
GRAMS	0.0352739	OUNCES
GRAMS	0.03215	OUNCES (TROY)

Conversion Tables

Given	Multiply By	To Find
GRAMS	2.205×10^{-3}	POUNDS
GRAMS	0.7716179	SCRUPLE
GRAMS (TROY)	2.0833×10^{-3}	OUNCES (TROY)
GRAMS/CM.	5.600×10^{-3}	POUNDS/INCH
GRAMS/CU. CM.	62.43	POUNDS/CUBIC FOOT
GRAMS/CU. CM.	0.03613	POUNDS/CUBIC INCH
GRAMS/LITER	58.417	GRAINS/GAL.
GRAMS/LITER	8.345	POUNDS/1000 GALS.
GRAMS/LITER	0.062427	POUNDS/CUBIC FOOT
GRAMS/LITER	1000	PARTS/MILLION
GROSS	12	DOZEN
HAND	4	INCH
HECTARE	2.471054	ACRE
HECTARE	107639.1	SQUARE FT.
HOGSHEAD	63	GALLONS
HORSEPOWER	42.4072	BTU/MIN.
HORSEPOWER	33000	FOOT – POUNDS/MIN.
HORSEPOWER	550	FOOT – POUNDS/SEC.
HORSEPOWER	1.014	HORSEPOWER (METRIC)
HORSEPOWER	10.7	KG. – CALORIES/MIN.
HORSEPOWER	0.7457	KILOWATTS
HORSEPOWER	745.7	WATTS
HORSEPOWER (BOILER)	33479	BTU/HOUR
HORSEPOWER (BOILER)	9.8095	KILOWATT
HORSEPOWER – HOURS	2547	BTU
HORSEPOWER – HOURS	1.98×10^{6}	FOOT – POUNDS
HORSEPOWER – HOURS	641.7	KILOGRAM – CALORIES
HORSEPOWER – HOURS	2.737×10^{5}	KILOGRAM – METERS
HORSEPOWER – HOURS	0.7457	KILOWATT – HOURS
INCH	1000	MILS
INCH	25.4	MILLIMETERS
INCHES OF MERCURY	0.03342	ATMOSPHERES
INCHES OF MERCURY	1.133	FEET OF WATER
INCHES OF MERCURY	345.3	KGS./SQUARE METER
INCHES OF MERCURY	70.73	LBS./SQUARE FT.
INCHES OF MERCURY	0.4912	LBS./SQUARE INCH
INCHES OF WATER	0.002458	ATMOSPHERES
INCHES OF WATER	0.07355	INCHES OF MERCURY
INCHES OF WATER	25.4	KGS./SQUARE METER
INCHES OF WATER	0.5781	OUNCES/SQUARE INCH
INCHES OF WATER	5.202	POUNDS/SQUARE FOOT
INCHES OF WATER	0.03613	POUNDS/SQUARE INCH
JOULE	0.000948	BTU
JOULE	0.238846	CALORIE
KILOGRAMS	980665	DYNES
KILOGRAMS	2.2046226	POUNDS
KILOGRAMS	1.102×10^{-3}	TONS (SHORT)
KILOGRAMS	10^{3}	GRAMS
KILOGRAMS – CALORIES	3.968	BTU
KILOGRAMS – CALORIES	3086	FOOT – POUNDS
KILOGRAMS – CALORIES	1.558×10^{-3}	HORSEPOWER – HOURS
KILOGRAMS – CALORIES	1.162×10^{-3}	KILOWATT – HOURS
KILOMETERS	10^{5}	CENTIMETERS
KILOMETERS	3280.84	FEET
KILOMETERS	10^{3}	METERS
KILOMETERS	0.6213712	MILES
KILOMETROS	1094	YARDS
KILOMETERS/HOUR	27.78	CENTIMETERS/SEC.
KILOMETERS/HOUR	54.68	FEET/MIN.
KILOMETERS/HOUR	0.9113	FEET/SEC.
KILOMETERS/HOUR	0.5396	KNOTS
KILOMETERS/HOUR	16.67	METERS/MIN.
KILOMETROS/HOUR	0.6214	MILES/HOUR
KILOWATT – HOURS	3415	BTU
KILOWATT – HOURS	2.655×106	FOOT – POUNDS
KILOWATT – HOURS	1.341	HORSEPOWER – HOURS
KILOWATT – HOURS	3.6×10^{6}	JOULE
KILOWATT – HOURS	860.5	KILOGRAM – CALORIES
KILOWATT – HOURS	3.671×10^{5}	KILOGRAM – METERS
KILOWATTS	56.869	BTU/MIN.
KILOWATTS	44253.7	FOOT – POUNDS/MIN.
KILOWATTS	737.6	FOOT – POUNDS/SEC.
KILOWATTS	1.34102	HORSEPOWER
KILOWATTS	14.3308	KG. – CALORIES/MIN.
KILOWATTS	10^{-3}	WATTS
KNOTS	1.150779	MILES (STATUTE)/HOUR
LEAGUE (STATUTE)	3	MILES (STATUTE)
LIGHT YEAR	5.8785×10^{12}	MILES
LINK	0.01	CHAIN
LINK	7.92	INCHES
LITERS	10^{3}	CUBIC CENTIMETERS
LITERS	0.03531	CUBIC FEET
LITERS	61.02	CUBIC INCHES
LITERS	10^{-3}	CUBIC METERS
LITERS	1.308×10^{-3}	CUBIC YARDS
LITERS	0.2642	GALLONS
LITERS	2.113	PINTS (LIQ.)

Given	Multiply By	To Find
LITERS	0.908	QUARTS (DRY)
LITERS	1.0567	QUARTS (LIQ.)
LITERS/MIN.	5.886×10^{-4}	CUBIC FT./SEC.
LITERS/MIN.	13.19815	GALLON (BRIT.)/HOUR
LITERS/MIN.	4.403×10^{-3}	GALLONS/SEC.
LITERS/SEC.	2.11888	CUBIC FT./MIN.
METERS	100	CENTIMETERS
METERS	3.2808399	FEET
METERS	39.37	INCHES
METERS	10^{-3}	KILOMETROS
METERS	10^{3}	MILLIMETERS
METERS	1.093613	YARDS
METERS/MIN.	1.667	CENTIMETERS/SEC.
METERS/MIN.	3.281	FEET/MIN.
METERS/MIN.	0.05468	FEET/SEC.
METERS/MIN.	0.06	KILOMETROS/HOUR
METERS/MIN.	0.03728	MILES/HOUR
METERS/SEC.	196.8	FEET/MIN.
METERS/SEC.	3.281	FEET/SEC.
METERS/SEC.	3.6	KILOMETER/HOUR
METERS/SEC.	0.06	KILOMETROS/MIN.
METERS/SEC.	2.236936	MILES/HOUR
METERS/SEC.	0.03728	MILES/MIN.
MIL	0.001	INCH
MIL	0.0254	MILLIMETER
MILES	320	ROD
MILES	1.609×10^{5}	CENTIMETERS
MILES	5280	FEET
MILES	1.609	KILOMETROS
MILES	1760	YARDS
MILES/HOUR	44.7	CENTIMETERS/SEC.
MILES/HOUR	88	FEET/MIN.
MILES/HOUR	1.467	FEET/SEC.
MILES/HOUR	1.609	KILOMETROS/HOUR
MILES/HOUR	0.8684	KNOTS
MILES/HOUR	26.82	Metros/MIN.
MILES/HOUR	1.609344	KILOMETROS/HOUR
MILES/HOUR	0.8689762	KNOTS
MILES/MIN.	2682	CENTIMETERS/SEC.
MILES/MIN.	88	FEET/SEC.
MILES/MIN.	1.609	KILOMETROS/MIN.
MILES/MIN.	60	MILES/HOUR
MILLIGRAMS	10^{-3}	GRAMS
MILLIGRAMS/LITER	1	PARTS/MILLION
MILLILITERS	0.0610237	CUBIC INCH
MILLILITERS	0.0338142	FLUID OUNCES
MILLILITERS	10^{-3}	LITERS
MILLIMETERS	0.1	CENTIMETERS
MILLIMETERS	0.03937	INCHES
MILLION GALS./DAY	1.54723	CUBIC FT./SEC.
MINER'S INCHES	1.5	CUBIC FT./MIN.
MINUTES (ANGLE)	2.909×10^{-4}	RADIANS
NEWTON – METER	0.737562	FOOT – POUNDS – FORCE
OUNCES	16	DRAMS
OUNCES	437.5	GRAINS
OUNCES	0.0625	POUNDS
OUNCES	28.349527	GRAMS
OUNCES	0.9115	OUNCES (TROY)
OUNCES	2.790×10^{-5}	TONS (LONG)
OUNCES	2.835×10^{-5}	TONS (METRIC)
OUNCES (FLUID)	1.805	CUBIC INCHES
OUNCES (FLUID)	0.02957	LITERS
OUNCES (FLUID)	30	MILLILITERS
OUNCES (FLUID)	1.040843	OUNCES (BRIT. FLUID)
OUNCES (TROY)	480	GRAINS
OUNCES (TROY)	20	PENNYWEIGHTS (TROY)
OUNCES (TROY)	0.08333	POUNDS (TROY)
OUNCES (TROY)	31.103481	GRAMS
OUNCES (TROY)	1.09714	OUNCES (AVOIR.)
OUNCES/SQUARE INCH	0.0625	POUNDS/SQUARE INCH
PACE	2.5	FEET
PALM	3	INCH
PARTS/MILLION	0.0584	GRAINS/U.S. GAL.
PARTS/MILLION	0.07016	GRAINS/IMP. GAL.
PARTS/MILLION	8.345	POUNDS/MILLION GAL.
PASCAL	0.0208854	POUNDS – FORCE/SQ. FT.
PECK (BRIT.)	2	GALLON (BRIT)
PECKS (US)	8	QUARTS (US DRY)
PENNYWEIGHTS (TROY)	24	GRAINS
PENNYWEIGHTS (TROY)	1.55517	GRAMS
PENNYWEIGHTS (TROY)	0.05	OUNCES (TROY)
PENNYWEIGHTS (TROY)	4.1667×10^{-3}	POUNDS (TROY)
PERCH (MASONRY)	24.75	CUBIC FEET
POINT (U.S.-PRINT)	0.013837	INCH
POLE (BRIT.)	16.5	FEET

Conversion Tables

Given	Multiply By	To Find
POTTLE (BRIT.)	.5	GALLONS
POUNDS	16	OUNCES
POUNDS	256	DRAMS
POUNDS	7000	GRAINS
POUNDS	0.0005	TONS (SHORT)
POUNDS	453.5924	GRAMS
POUNDS	1.21528	POUNDS (TROY)
POUNDS	14.5833	OUNCES (TROY)
POUNDS OF WATER	0.01602	CUBIC FEET
POUNDS OF WATER	27.68	CUBIC INCHES
POUNDS OF WATER	0.1198	GALLONS
POUNDS OF WATER/MIN.	2.670×10^{-4}	CUBIC FT./SEC.
POUNDS (TROY)	5760	GRAINS
POUNDS (TROY)	140	PENNYWEIGHTS (TROY)
POUNDS (TROY)	12	OUNCES (TROY)
POUNDS (TROY)	373.24177	GRAMS
POUNDS (TROY)	0.822857	POUNDS (AVOIR.)
POUNDS (TROY)	13.1657	OUNCES (AVOIR.)
POUNDS (TROY)	3.6735×10^{-4}	TONS (LONG)
POUNDS (TROY)	4.1143×10^{-4}	TONS (SHORT)
POUNDS (TROY)	4.1667×10^{-3}	TONS (METRIC)
POUNDS/CUBIC FOOT	0.01602	GRAMS/CUBIC CM.
POUNDS/CUBIC FOOT	16.02	KGS./CUBIC METERS
POUNDS/CUBIC FOOT	5.787×10^{-4}	POUNDS/CUBIC INCH
POUNDS/CUBIC INCH	27.68	GRAMS/CUBIC CM.
POUNDS/CUBIC INCH	2.768×10^{4}	KGS./CUBIC METER
POUNDS/CUBIC INCH	1728	POUNDS/CUBIC FOOT
POUNDS/FOOT	1.488	KGS./METER
POUNDS/INCH	178.6	GRAMS/CM.
POUNDS/SQUARE FOOT	0.01602	FEET OF WATER
POUNDS/SQUARE FOOT	4.883	KGS./SQUARE METER
POUNDS/SQUARE FOOT	6.945×10^{-3}	POUNDS/SQUARE INCH
POUNDS/SQUARE INCH	0.068046	ATMOSPHERES
POUNDS/SQUARE INCH	2.307	FEET OF WATER
POUNDS/SQUARE INCH	2.03602	INCHES OF MERCURY
POUNDS/SQUARE INCH	703.1	KGS./SQUARE METER
PSI	1	POUND – FORCE/SQ. IN.
PUNCHEON	84	GALLONS
PUNCHEON (BRIT.)	70	GALLON (BRIT.)
QUARTS (DRY)	0.03125	BUSHEL
QUARTS (DRY)	67.200625	CUBIC INCHES
QUARTS (DRY)	1.101	LITERS
QUARTS (LIQ)	57.75	CUBIC INCHES
QUARTS (LIQ)	0.9463	LITER
QUARTS (LIQ)	0.8326742	QUART (BRIT.)
QUARTS (LIQ)	0.859367	QUART (DRY)
QUINTAL, ARGENTINE	101.28	POUNDS
QUINTAL, BRAZIL	129.54	POUNDS
QUINTAL, CASTILE, PERU	101.43	POUNDS
QUINTAL, CHILE	101.41	POUNDS
QUINTAL, METRIC	220.46	POUNDS
QUINTAL, MEXICO	101.47	POUNDS
RADIANS	57.29578	DEGREES
RADIANS	3437.747	MINUTES
RADIANS	0.63662	QUADRANTS
RADIANS/SEC.	57.3	DEGREES/SEC.
RADIANS/SEC.	0.1592	REVOLUTIONS/SEC.
RADIANS/SEC.	9.549297	REVOLUTIONS/MIN.
REAMS	500	SHEETS
REVOLUTIONS	360	DEGREES
REVOLUTIONS	4	QUADRANTS
REVOLUTIONS	6.283	RADIANS
REVOLUTIONS/MIN.	6	DEGREES/SEC.
REVOLUTIONS/MIN.	0.1047	RADIANS/SEC.
REVOLUTIONS/MIN.	0.01667	REVOLUTIONS/SEC.
REVOLUTIONS/SEC.	360	DEGREES/SEC.
REVOLUTIONS/SEC.	6.283	RADIANS/SEC.
REVOLUTIONS/SEC.	60	REVOLUTIONS/MIN.
RODS	16.5	FEET
ROPE	20	FEET
SCRUPLE	20	GRAINS
SEAM (BRIT.)	64	GALLON (BRIT.)
SLUG	14.5939	KILOGRAMS
SPAN	9	INCHES
SQUARE CM.	10^{-4}	SQUARE METERS
SQUARE CM.	100	SQUARE MILLIMETERS
SQUARE FEET	2.296×10^{-5}	ACRES
SQUARE FEET	929	SQUARE CENTIMETERS
SQUARE FEET	144	SQUARE INCHES
SQUARE FEET	0.0929	SQUARE METERS
SQUARE FEET	3.587×10^{-3}	SQUARE MILES
SQUARE FEET	1/9	SQUARE YARDS
SQUARE INCHES	6.452	SQUARE CENTIMETERS
SQUARE INCHES	6.944×10^{-3}	SQUARE FEET
SQUARE INCHES	645.2	SQUARE MILLIMETERS
SQUARE KILOMETERS	247.1	ACRES
SQUARE KILOMETERS	10.76×10^{6}	SQUARE FEET

Given	Multiply By	To Find
SQUARE KILOMETERS	10^{6}	SQUARE METERS
SQUARE KILOMETERS	0.3861	SQUARE MILES
SQUARE KILOMETERS	1.196×10^{6}	SQUARE YARDS
SQUARE METERS	2.471×10^{-4}	ACRES
SQUARE METERS	10.76	SQUARE FEET
SQUARE METERS	3.861×10^{-7}	SQUARE MILES
SQUARE METERS	1.196	SQUARE YARDS
SQUARE MILES	640	ACRES
SQUARE MILES	27.88×10^{6}	SQUARE FEET
SQUARE MILES	2.59	SQUARE KILOMETERS
SQUARE MILES	3.098×10^{6}	SQUARE YARDS
SQUARE MILLIMETERS	0.01	SQUARE CENTIMETERS
SQUARE MILLIMETERS	1.550×10^{-3}	SQUARE INCHES
SQUARE YARDS	2.066×10^{-4}	ACRES
SQUARE YARDS	9	SQUARE FEET
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE YARDS	3.228×10^{-7}	SQUARE MILES
STERE	1	CUBIC METER
STERE	0.2759	CORD
STONE	14	POUNDS
TABLESPOON	14.79	MILLILITERS
TEASPOON	5	MILLILITERS
TEMP.(°C.)+17.78	1.8	TEMP.(°F.)
TEMP.(°F)-32	.555	TEMP.(°C.)
THERM	100,000	BTU
TONS OF WATER/24 HRS.	83.333	POUNDS WATER/HOUR
TONS OF WATER/24 HRS.	0.16643	GALLONS/MIN.
TONS OF WATER/24 HRS.	1.3349	CUBIC FT./HOUR
TONS (LONG)	1016.0469	KILOGRAMS
TONS (LONG)	1.016047	TONS (METRIC)
TONS (LONG)	2240	POUNDS
TONS (LONG)	1.12	TONS (SHORT)
TONS (METRIC)	10^{3}	KILOGRAMS
TONS (METRIC)	2205	POUNDS
TONS (SHORT)	2000	POUNDS
TONS (SHORT)	32000	OUNCES
TONS (SHORT)	907.18486	KILOGRAMS
TONS (SHORT)	2430.56	POUNDS (TROY)
TONS (SHORT)	0.89287	TONS (LONG)
TONS (SHORT)	29166	OUNCES (TROY)
TONS (SHORT)	0.90718	TONS (METRIC)
WATT – HOUR	3600	JOULE
WATTS	0.05692	BTU/MIN.
WATTS	44.26	FOOT – POUNDS/MIN.
WATTS	0.7376	FOOT – POUNDS/SEC.
WATTS	1.341×10^{-3}	HORSEPOWER
WATTS	0.01434	KG. – CALORIES/MIN.
WATTS	10^{-3}	KILOWATTS
WATTS – HOURS	3.41214	BTU
WATTS – HOURS	2655	FOOT – POUNDS – FORCE
WATTS – HOURS	1.341×10^{-3}	HORSEPOWER – HOURS
WATTS – HOURS	3600	JOULES
WATTS – HOURS	0.8605	KILOGRAM – CALORIES
WATTS – HOURS	367.1	KILOGRAM – METROS
WATTS – HOURS	10^{-3}	KILOWATT – HOURS
YARDS	91.44	CENTIMETERS
YARDS	36	INCHES
YARDS	0.9144	METROS

Worldwide Locations

Through steady, planned expansion, Martin has developed a network of modern manufacturing and service centers.

The ever increasing demand for high quality Martin products from many industries and markets has been met by continuous modernization and expansion of manufacturing and marketing facilities. With plants located in key industrial areas throughout the world, Martin is able to produce and deliver quality products to best serve the needs of every market in virtually any quantity. Distributors are located in all fifty states and throughout the world to provide total product availability.

It's through this manufacturing and marketing organization that Martin makes good its claim of serving industry "wherever machinery is in motion and materials are on the move."



HEADQUARTERS - ARLINGTON, TX



ABILENE, TX



ALBEMARLE, NC



ARLINGTON, TX



ATLANTA, GA



BOSTON, MA



BURLESON, TX



CHARLOTTE, NC



CHICAGO, IL



CLARKSVILLE, TX



DALLAS, TX



DANIELSVILLE, PA



DENVER, CO



FT. WORTH, TX



HOUSTON, TX



KANSAS CITY, MO



LOS ANGELES, CA



MANSFIELD, TX



MINNEAPOLIS, MN



MONTPELIER, OH



NASHVILLE, TN



PARAGOULD, AR



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SACRAMENTO, CA



TAMPA, FL



AYR, ONTARIO, CANADA



EDMONTON, ALBERTA, CANADA



MISSISSAUGA, ONTARIO, CANADA



MONTERREY, NL, MEXICO



TOLUCA, EDO. DE MEXICO



GUADALAJARA, JAL., MEXICO



CHANGZHOU, JP, CHINA



FUZHOU, CHINA



SHANGHAI, CHINA (China Headquarters)



TIAJIN, CHINA



WUHAN, CHINA



SÃO PAULO,BRAZIL, SOUTH AMERICA

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3100 SPROCKET DR
ARLINGTON TX 76015-2828
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ALBEMARLE NC 28001-8520
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3303 CHURCH ST
SCOTTDALE GA 30079-1303
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555 N BURLESON BLVD
BURLESON TX 76028-2907
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3376 DELPS RD
DANIELSVILLE PA 18038-9515
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3600 MCCART AVE
FORT WORTH TX 76110-4613
817-258-3000 (FAX 817-258-3173)

Montpelier, OH
350 S AIRPORT RD
MONTPELIER OH 43543-9329
419-485-5515 (FAX 419-485-3565)

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1199 VINE ST
SACRAMENTO CA 95811-0426
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357 FORTUNE BLVD
MILFORD MA 01757-1723
508-634-3990 (FAX 508-634-3998)

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3901 SCOTT FUTRELL DR
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1505 BIRCHWOOD AVE
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10800 E 54TH AVE
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1520 N COMMERCE AVE
KANSAS CITY MO 64120-1364
816-231-5575 (FAX 816-231-1959)

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10601 HAMPSHIRE AVE S
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Tianjin • Wuhan • Zhongshan

TERMS & CONDITIONS OF SALE

These **Terms and Conditions of Sale**, along with Seller's **Standard Limited Warranty**; the contents of Seller's written acknowledgement, if any, to a purchase order or any other writing submitted by Purchaser to Seller; Seller's written proposal, if any, submitted by Seller to Purchaser; and the contents of any invoice submitted by Seller to Purchaser shall establish the commercial terms of the contract (the "Order") under which Martin Sprocket & Gear, Inc. ("Seller") agrees to sell parts and equipment ("Products") to the purchaser (the "Purchaser") and Purchaser agrees to purchase Products from Seller.

1. **AGREEMENT:** Notwithstanding any additional, differing, or conflicting terms in a purchase order or any other writing submitted by Purchaser to Seller, the terms of the Order shall constitute the entire agreement between Seller and Purchaser. Writings transmitted from Purchaser to Seller, such as a purchaser order, that contain additional, conflicting, or differing terms from the Order shall not apply or in any way modify or alter the terms and conditions of the Order. Furthermore, writings with terms and/or conditions different from, or in addition to, the terms and conditions appearing in the Order, including any additional or differing terms and conditions contained in any purchase order submitted by the Purchaser, are expressly rejected. Purchaser's submission to Seller of an offer to purchaser Products or Purchaser's acceptance of Seller's offer to sell Products, by whatever means, constitutes Purchaser's agreement that the Order contains the entire agreement between Purchaser and Seller. Purchaser's acceptance of the Order is expressly limited to the terms and conditions of the Order. Purchaser understands and acknowledges that the price Seller quoted for the Products is based upon Purchaser's acceptance of the terms and conditions of the Order and that the price for the Products would be different if other terms and conditions of sale were to apply.
2. **ACCEPTANCE:** If Seller is making an offer to sell Products, Purchaser may accept Seller's offer only on the terms and conditions set forth in the Order. If the Purchaser is making an offer to purchase Products from Seller, Seller's acceptance of Purchaser's offer is expressly conditioned on Purchaser's assent to the terms and conditions of the Order, and any commencement of performance by Purchaser shall be deemed to constitute such assent. Any additional and/or different terms and conditions proposed by Purchaser and/or any attempt by Purchaser to vary any of the terms and conditions of the Order shall be deemed a material alteration and is hereby objected to and rejected. Seller's shipment of any Products in response to a writing that attempts to vary any of the terms and conditions of the Order or Seller's acceptance of any payment by Purchaser shall not be deemed to constitute such assent to any additional and/or different terms and conditions proposed by Purchaser.
3. **RISK OF LOSS:** Unless a specific term of the Order provides otherwise, all shipments shall be shipped F.O.B. Seller's facility and risk of loss as to such Products shall pass and remain with Purchaser once Products depart Seller's facility.
4. **SPECIFICATIONS:** Seller shall furnish all stock Products as specified in the Order. Made-to-order Products shall be furnished in accordance with the specifications, details, requirements and/or drawings supplied by Purchaser, or prepared by Seller at Purchaser's direction. Any drawings, specifications, and calculations submitted by Seller to Purchaser shall be reviewed and approved by Purchaser. Seller warrants that all Products covered by the Order will conform to the specifications, drawings, samples or other descriptions furnished to Seller or adopted by the Purchaser. If it is determined that the Products delivered under the Order fail to meet the specifications, then Purchaser will contact Seller and Seller shall make corrections in accordance with Seller's Limited Warranty.
5. **LIMITED WARRANTY:** Seller's Standard Limited Warranty is attached hereto and incorporated herein for all purposes.
6. **PRICING, PACKAGING, DELIVERY AND PAYMENT:** All Products shall be sold on the terms, conditions and at the price quoted in the Order. All terms of pricing, packaging, shipment, delivery and payment are included in the Order.
7. **INSPECTION:** Purchaser shall have reasonable time after delivery to inspect the Products covered by the Order. Purchaser shall accept or reject the Products promptly after inspection. Payment by Purchaser prior to its inspection will not constitute acceptance of items covered by the Order.
8. **INDEMNIFICATION:**

   8.1. Seller agrees to indemnify and hold harmless the Purchaser, its successors and assigns against any and all liabilities, loss and expense (including attorney's fees) arising out of a third party product liability claim that results in a judicially determined, final, and non-appealable order finding that the Products were defective provided that no indemnification shall be provided for any loss (or any portion of any loss) determined to have resulted from the acts or omissions of the party seeking indemnification. Seller agrees to carry adequate product liability insurance to support this obligation and agrees to provide certificate(s) of insurance showing such coverage, as requested by Purchaser.

   8.2. Notwithstanding any of the other provisions in this Section 8., Seller's obligation to indemnify the Purchaser is limited to the extent of Seller's product liability insurance and the coverages and exclusions provided for thereunder. In the event Seller's product liability insurance will not cover any of the claims described in Section 8.1., then Seller shall have no obligation to indemnify Purchaser. Seller's obligation to pay any judgment, award, or settlement are likewise limited by the product liability insurance coverage amounts and policy limits provided for under Seller's liability insurance policies. Seller's obligation to indemnify Purchaser shall not apply to any Product which Purchaser (or Purchaser's employees, contractors, customers, or assigns) have altered, tampered with, misused or neglected, or for which Seller's operating instructions and warnings have been ignored or removed or to the extent of the negligence or legal fault of any party other than Seller. Indemnification provided herein is conditioned upon Purchaser providing Seller prompt notice of any claim and allowing Seller, or its insurance company, control over the defense and/or settlement of any such claim.

   8.3. Seller shall defend any suit or proceeding brought against Purchaser to the extent such suit or proceeding is based on a claim that any Product or part thereof (not developed, proposed or specifically mandated by Purchaser), constitutes an infringement of any patent. In the event that the sale or use of such Product, or any part thereof, is enjoined, Seller shall, at its own expense and its option, either: (a) procure for Purchaser, the right to continue using said Product; (b) replace same with a non-infringing Product; or (c) modify same so that it becomes non-infringing.

   8.4. The obligations of Seller with respect to indemnification for third party product liability claims and patent infringement are solely and exclusively as stated herein. **THE INDEMNITY OBLIGATIONS RECITED ABOVE ARE IN LIEU OF ALL OTHER INDEMNITIES WHATSOEVER, WHETHER ORAL, WRITTEN, EXPRESS, OR IMPLIED.**
9. **TERMINATION:**

   9.1. Termination for Convenience: Purchaser, by written notice, shall have the right to terminate the Order, in whole or in part, at any time for its convenience. Upon receipt of written notice, Seller and any subcontractors and suppliers shall immediately cease all work with respect to the Products. Within thirty (30) days of Seller's receipt of any termination notice, Seller shall submit its claim for its costs of performance to the date of termination. The termination charges shall consist of a percentage of the contract price of the Products reflecting the percentage of the work performed prior to the date of termination, plus any additional direct costs reasonably incurred as a result of the termination. Percentage of work performed and other charges must be verifiable by Purchaser. Upon payment of the termination charges, title to all Products for which Seller has been paid shall be vested in Purchaser.

   9.2. Termination for Default: The Purchaser may terminate the whole or any part of the Seller's performance under the Order in any one of the following circumstances: (1) if the Seller fails to make delivery of the Products or to perform within the time specified herein or any extension thereof; (2) if the Seller delivers Products which do not conform to the specifications; or (3) if the Seller fails to perform any of the other provisions of the Order in accordance with its terms or so fails to make progress as to endanger performance hereunder. In the event of any such failure, Purchaser will provide Seller with written notice of the nature of the failure and Purchaser's intention to terminate for default. Such notice shall provide Seller a commercially reasonable opportunity to cure such failure. In the event Seller does not cure such failure within a commercially reasonable time of such notice, Purchaser may provide Seller with a written Notice of Termination for Default. In the event the Purchaser terminates the Order for default, as provided in this clause, the Purchaser's exclusive remedy for such default is to (i) receive a refund of the price actually paid to Seller upon the return of the Products to Seller's facility from which the Products were originally shipped or (ii) accept the Product as delivered with a mutually agreed to adjustment to the price.
10. **CONFIDENTIAL INFORMATION:**

    10.1. In the performance of its obligations under the Order, Seller may have access to trade secrets and other confidential information, including but not limited to, drawings, data, costs, operating procedures, customers and methods of doing business, which may be owned or controlled by Purchaser and its affiliates ("Confidential Information"). If Seller does in fact have access to any of the Purchaser's Confidential Information in connection with the Order, Seller agrees that any such Confidential Information shall at all times remain the exclusive property of Purchaser and shall be used by Seller and its authorized employees, agents or subcontractors solely for the purpose of performing its obligations hereunder. Seller agrees to keep such Confidential Information in confidence and not to copy or permit others to copy the Confidential Information or disclose the same to unauthorized persons for a period of three (3) years, or for any trade secret for the period of time during which such item is considered a trade secret under applicable law.

    10.2. If Seller is required to disclose the Confidential Information pursuant to any legal proceeding, Seller shall notify Purchaser in writing and allow Purchaser to seek appropriate judicial relief.

    10.3. Notwithstanding the foregoing, nothing herein shall limit the Seller's right to disclose any information which: (1) was in or enters the public domain without fault of the Seller; (2) is received by Seller from a third party without restriction or breach of any duty of confidentiality; (3) was known to Seller prior to receipt and such prior knowledge is demonstrated by competent evidence; or (4) is required to be disclosed pursuant to government process, law, order, rule or regulation.
11. **FORCE MAJEURE:** Neither Purchaser nor Seller shall be deemed to have breached the Order as a result of delays in performance where such delays result from acts of God, fires, strikes, or occurrences, beyond the control, and without the fault, of the party seeking excuse. Any party seeking excuse under Section 11. shall promptly notify the other party in writing and take all reasonable steps to mitigate the effect of such delay on the other party. The time for performance by Seller shall be extended by a period equal to the length of any such excused delay. If any event of delay as identified in Section 11. is encountered by Seller and continues for more than ninety (90) days, the Purchaser shall have the right, but not the obligation, to terminate the Agreement for its Convenience in accordance with Section 9.1. entitled, "Termination For Convenience."
12. **COMPLIANCE WITH LAWS:** Seller certifies that its operations are in compliance with all applicable laws, executive orders, rules and regulations relating to Equal Employment Opportunity.
13. **INSURANCE:** Seller shall not insure the Product's for Purchaser's account, unless otherwise indicated in the Order.
14. **ASSIGNMENT:** The Order may not be assigned by either party without the written consent of the other party.
15. **GOVERNING LAW:** All disputes relating to the execution, interpretation, construction, performance, or enforcement of the Order and the rights and obligations of the parties shall be governed by the laws of, and resolved in the State or Federal courts in, the State of Texas. Purchaser hereby consents to and waives any objection to venue and jurisdiction in such courts.
16. **CUMULATIVE REMEDIES: SELLER SHALL IN NO EVENT BE LIABLE TO PURCHASER, ANY PERSON WHO SHALL PURCHASE FROM PURCHASER, OR ANY PERSON THAT USES ANY PRODUCTS SOLD PURSUANT TO THE ORDER FOR DAMAGES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS OF PRODUCTION OR LOSS OF PROFITS RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, ANY DELAY, ACT, ERROR, OR OMISSION OF SELLER, OR ANY DEFECT, FAILURE, OR MALFUNCTION OF THE PRODUCTS, AND SELLER'S SOLE LIABILITY SHALL BE TO REPAIR OR REPLACE ANY PRODUCTS COVERED BY THE ORDER F.O.B. SELLER'S FACILITY, WHETHER THE CLAIM FOR SUCH DAMAGES IS BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, OR OTHERWISE.**
17. **SEVERABILITY:** The terms and conditions of the Order are subject to all applicable laws and regulations. The unenforceability or invalidity of any provision of any of the writings that collectively constitute the Order shall not affect the validity or enforceability of the remaining provisions thereof, but such remaining provisions shall be construed and interpreted in such a manner as to carry out fully the intent of the parties.
18. **DISPUTE RESOLUTION:** The parties agree to attempt to resolve disputes prior to submitting such disputes to determination by litigation by good-faith negotiations between knowledgeable, responsible representatives of each party who are fully authorized to settle any such dispute.
19. **WAIVER:** Seller's failure to insist on performance of any term, condition, or instruction, or failure to exercise any right or privilege, or its waiver of any breach, shall not thereafter waive any such term, condition, instruction, right, or privilege.

LIMITED WARRANTY

Subject to the limitation expressed in subsequent paragraphs, Martin Sprocket & Gear, Inc. and Martin Sprocket & Gear Canada Inc., and Martin Sprocket & Gear de Mexico, S.A. de C.V., make the following warranties: We warrant that each of our products of manufacture will be free from defects in material and workmanship under normal use and service for twelve months from the date of delivery to the original user. We will correct any such defects in material or workmanship by repair or replacement of the product F.O.B. our plant. Tools will carry the following lifetime warranty: If a Martin tool fails to satisfactorily perform its designated use, it may be returned to the Martin distributor from which such tool was purchased and will be repaired or replaced without cost.

THE FOREGOING WARRANTIES ARE EXPRESSLY IN LIEU OF ANY AND ALL REPRESENTATIONS, WARRANTIES AND CONDITIONS EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHETHER ARISING FROM STATUTE, COMMON LAW, CUSTOM, OR OTHERWISE. THE REMEDY OF REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT OR TOOL SET FORTH IN THE FOREGOING WARRANTIES SHALL BE THE EXCLUSIVE REMEDY AVAILABLE TO ANY PERSON.

Charges for correcting defects will not be allowed, nor can we accept goods returned to us for repair or replacement, unless we are previously notified of the defect in writing and the return or correction is authorized by us in writing. All warranty claims alleging defects of materials or workmanship must be submitted in writing within thirty days of the discovery of a defect or such claim shall be considered waived. (This paragraph is subject to the provisions of the Consumer Protection laws of Mexico.)

The foregoing warranties shall not apply to any products or tools which have been subjected to misuse, neglect or accident, or have been altered or tampered with, or have been used beyond their normal useful or expected life, or which have had corrective work done thereon without our written consent. WE SHALL NOT BE LIABLE FOR ANY LOSS, INJURY, EXPENSE, OR DAMAGE, WHETHER DIRECT, CONSEQUENTIAL, INCIDENTAL, OR OTHERWISE, RESULTING FROM THE USE OF OUR PRODUCTS OR TOOLS OR CAUSED BY ANY DEFECT, FAILURE, OR MALFUNCTION OF ANY PRODUCT OR TOOL, WHETHER A CLAIM FOR SUCH DAMAGES IS BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, OR OTHERWISE. Equipment manufactured by others, and included in our proposal, is not warranted in any way by us but carries only the manufacturer's warranty, if any. No person has the authority to bind us to any representation or warranty other than the foregoing limited warranties as disclaimed.

Sale of Martin products and tools shall be governed by the laws of the State of Texas and of the United States of America. The provisions of the United Nations Convention on Contracts for the International Sale of Goods or any local statute declaring it to have the force of law in the jurisdiction of one of the parties shall not apply to products or tools supplied hereunder.

"YOU ARE HEREBY NOTIFIED THAT ANY ADDITIONAL OR DIFFERENT TERMS FROM THOSE CONTAINED IN THIS LIMITED WARRANTY ARE OBJECTIONABLE. NO ADDITIONS OR CHANGES ARE BINDING ON Martin UNLESS THEY ARE IN WRITING AND SIGNED BY AN AUTHORIZED OFFICER."

NOTE: All past due invoices shall be payable to Martin Sprocket & Gear, Inc., at P.O. Box 91588, Arlington, Tarrant County, Texas 76015-0088. All past due invoices of Martin Sprocket & Gear Canada Inc., shall be payable at 896 Meyerside Drive, Mississauga, Ontario, Canada L5T 1R9. All past due Invoices of Martin Sprocket & Gear de Mexico, S.A. dec. C.V., will be payable at Km. 52 Carretera, Naucalpan-Toluca, Calle 3 Mz.7 Lt. 11, Parque Industrial, Toluca 2000, Toluca, Edo. de Mexico, c.p. 50200. Reasonable attorneys' fees will be added if collection is forced.

ADDITIONAL TERMS & CONDITIONS APPLICABLE TO ORDERS OF Martin STOCK PARTS

TAXES: Any sales, use, consumption, or other similar tax applicable to the sale, purchase, or use of any Product is not included in quoted price and shall be paid by the Purchaser.

RETURNED PRODUCT: When it is desired to return Product for credit or exchange, it is necessary that permission in writing first be obtained from the nearest office.

SHIPMENTS: If Seller is not able to meet Purchaser's shipment requirements and/or expected dates of shipment, Seller will not accept liability for delays beyond Seller's control, nor will Seller accept cancellations unless a settlement has been agreed upon between all parties.

FREIGHT ALLOWANCE: Freight allowances are shown on the different product discount sheets. In cases where a Purchaser's specified routing of any Order is more costly than the routing selected by Seller, the excess charges will be added to the net amount of the invoice. Weights shown in catalog are approximate, and may not be used to determine qualifications for freight allowance.

CASH DISCOUNT: Unless modified in the Order or invoice, payment terms shall be: 1% 10th and 25th Net 30 Days. A 1% cash discount will be allowed on invoices dated the 1st through the 15th if paid by the 25th of the same month and on invoices dated the 16th through the end of the month if payment is made by the 10th of the next month. All invoices are due in 30 days. Cash discount does not apply to other charges such as freight, postage, or delivery charges.

This catalog supersedes all previous editions. Every effort has been put forward to produce what we feel is the best power transmission catalog in the industry. However, due to changes in engineering and manufacturing processes and procedures, it becomes necessary, from time to time, to make alterations to products, and such alterations may not be reflected in this catalog. Therefore, if dimensions, specifications or appearances represented by pictures or drawings or tables are critical in their applications, please consult the factory for clarification or certified drawings.



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