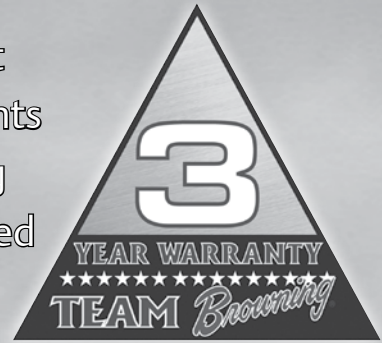


Team Up with Browning and get a 3 year warranty on Shaft Mounts and Belt Drives. Team Browning will keep you in play, not sidelined by poor performance.



The American Standard



Browning® TorqTaper Plus Shaft Mounts...

Unlike competitive bushing systems that mount only from the front or back of the reducer (or require bushings on both sides), TorqTaper Plus uses a single tapered bushing that easily installs from either front or back – depending on your space limitations and available shaft length. This patented feature simplifies replacement of any competitive unit.

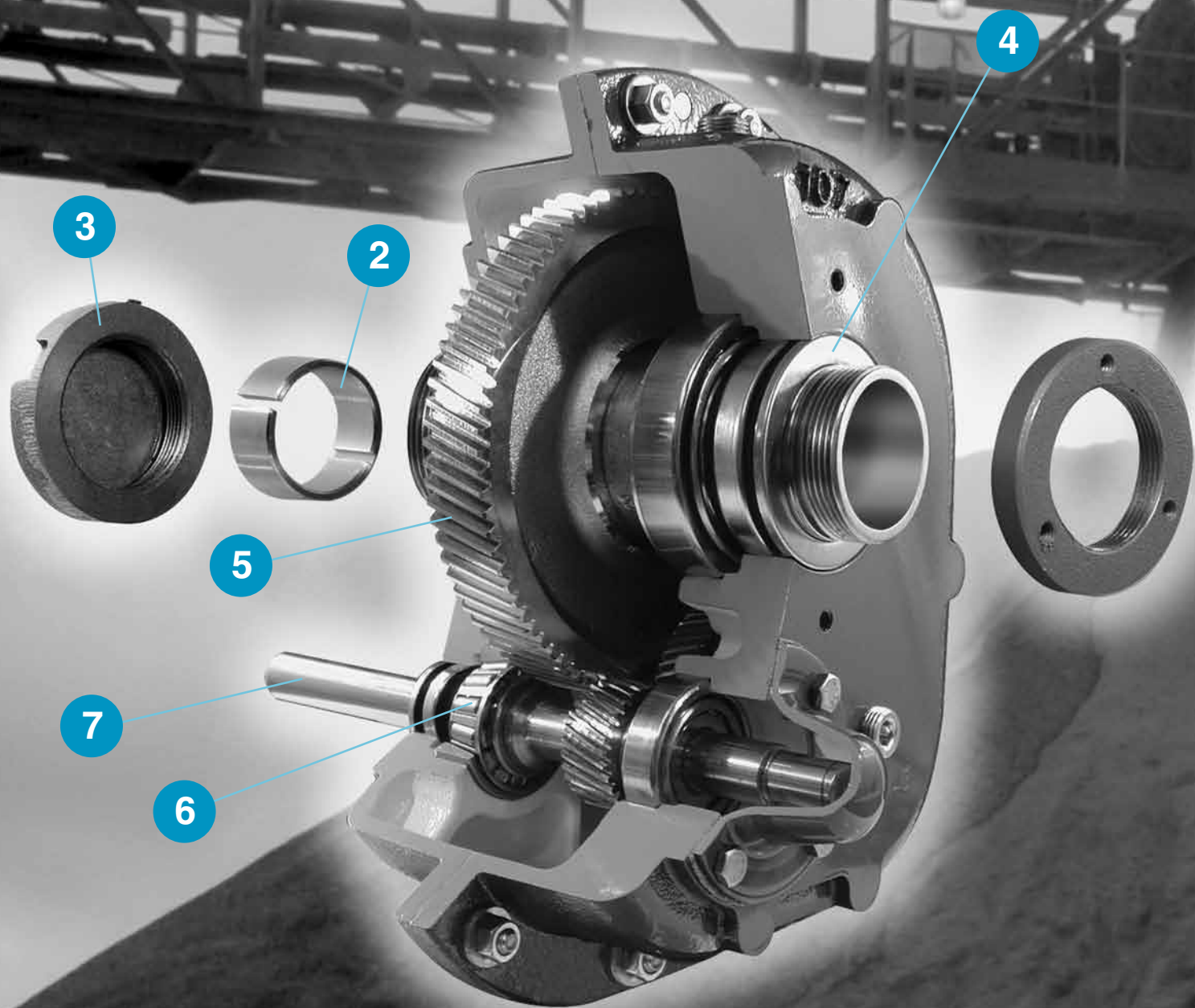


Patented Barrier Seal System

Combines a v-ring face seal, grease filled labyrinth and rotating outer flinger to provide triple protection against contamination and oil seal damage. Standard on all shafts.



The New Way... Your Way



Check Out These Additional Features of TorqTaper Plus Reducers

1. Unique, patented single bushing mounting system
 - Tapered bushing mounts from either side on the 107-315
2. Tapered stabilizer ring minimizes wobble and resists fretting corrosion
3. End cap seals quill end from contamination
4. Industrial strength seal systems
 - Patented barrier seal system includes standard double lip oil seals with v-ring face seal, grease packed labyrinth and external flinger
5. Carburized and ground gearing throughout
 - AGMA class 12 minimum
6. Tapered roller bearings on all shafts
7. Increased shaft diameters; higher overhung load ratings

Plus...

- Depending upon size, available ratios include 5, 9, 15, 25 and new 35:1 ratio
- Increased horsepower ratings, allows down-sizing on many applications
- Pre-drilled and tapped face mount holes



Example No. 1 Shaft Mount Application

A shaft mount reducer and belt drive are required for a bucket conveyor, which will be uniformly loaded and operated 16 to 24 hours per day at 81 rpm.

The conveyor requires 15 hp. The reducer will be mounted on the conveyor head shaft which is 2 7/16" diameter. The customer wants to mount the 1750 rpm 254T frame motor on the reducer. The customer has also requested a backstop for the reducer.

1. Determine the Load Classification

From the AGMA Application Classification numbers, note that the load class is II for a uniformly loaded bucket conveyor operating over 10 hours per day.

2. Determine the Speed Reducer Required

From the Reducer Selection Chart for Class II Service, select a reducer for 15 hp and 81-89 rpm, which in this case is a 207SMTP15 or 207SMTP09. Choose the 207SMTP15, as the larger ratio will require the most compact and generally most economical belt drive. Refer to the Shaft Mount Accessories section for a bushing and torque arm. A 207TBP207 bushing is required for the reducer. Select the 207TAP-H torque arm.

3. Select the Motor Mount

Determine if a top mount or side mount configuration is required. Reference the motor mount tables in the Shaft Mount Accessories section for dimensions. After consulting the customer, it was determined that the top mount configuration was desired. Select the correct motor mount supports, motor mount adapter and motor base: MMS207L, MMA207, MB203-207.

4. Select the Backstop

Select the 207BSP backstop from the Shaft Mount Accessories section.

5. Select the Belt Drive

Note that the belt centers for this motor and reducer combination are 22.34 to 39.66. Note that 4.3" is the minimum sheave pitch diameter for the 207SMTP15 reducer chosen in Step 2. Reducer input speed = 81 (conveyor speed) x 14.787 (Exact Reducer Ratio) = 1197 rpm. From the Shaft Mount Accessories section pre-selected belt drive tables select a belt drive with a center distance near the midpoint of the 22.34 to 39.66. This drive (1197 driven speed) consists of a 2B5V68 sheave with a B 1 5/8 bushing, a 2B5V94 sheave with a B 1 7/16 bushing and two 5VX660 gripnotch belts.

6. Select the Belt Guard

Select the guard. Notice from the table that the CD range with the belt guard is 22.00 to 34.00" and the maximum reducer sheave that will fit into the belt guard in the top mount position is 24". Note that the part number, BGP24 24-38 with 207BGMKP, kit hardware required to mount the guard onto the reducer.

7. List Components:

1, 207SMTP15 Reducer	1, 207BSP Backstop
1, 207TBP207 Bushing	1, B 1 5/8 Bushing
1, 207TAP-H Torque Arm	1, 2B5V68 Sheave
1, MMS207L Motor Mount Support	1, B 1 7/16 Bushing
1, MMA207 Motor Mount Adapter	1, 2B5V94 Sheave
1, MB203-207 Motor Base	2, 5VX660 Belts
	1, BGP24 24-38/207BGMKP Belt Guard

Ordering Information

Example No. 2

Screw Conveyor Application

A screw conveyor drive is required to convey dry cement powder. The conveyor will be uniformly fed and operated 12 to 16 hours per day. The screw is 14" diameter and has a 2 7/16" bore with two holes. The conveyor requires 5 hp and will operate at 60 rpm. The motor is a 1750 rpm 184T frame. The customer wants the trough end, waste pack, belt drive, belt guard and motor mount.

1. Determine the Load Classification

From the AGMA Application Classification numbers, note that the load class is II for a uniformly fed screw conveyor operating over 10 hours per day.

2. Determine the Speed Reducer Size Required

From the Reducer Selection Chart for Class II Service select a reducer for 5 hp and 60 rpm, which in this case is a 115SMTP09, 115SMTP15 or 115SMTP25 for 55-77 rpm. Choose the 115SMTP25 as the larger ratio will require the most compact and generally most economical belt drive.

3. Establish Sealing Required for Screw Conveyor

The waste pack cartridge is well suited for dry, abrasive materials such as cement powder. Specify the optional waste pack cartridge for the 115 shaft mount selected. From the Shaft Mount Accessories section, select part 115-203WPP.

4. Select the Screw Conveyor Adapter and Screw Conveyor Shaft

Note that the customer requested a 2 7/16" drive shaft with a two hole arrangement for the 14" diameter screw.

From the table select the 115SCA-P and the 115DSP207 using the basic reducer size, screw diameter and shaft size.

5. Select the Trough End

From the Shaft Mount Accessories section, select the SCTE14 x 2 7/16 trough end.

6. Select the Motor Mount

First determine if the top mount or side mount configuration is required. Reference the motor mount tables in the Shaft Mount Accessories section for dimensions. After consulting with the customer it was determined that the top mount was desired. Select the MMS115H, MMA107-115 and MB107-115. Check the dimensions from the motor mount table. Note that the high motor mount must be used with this size screw. The value of 4.32" needs to be added to the minimum center distance on the high supports to ensure that the motor mount clears the screw conveyor.

7. Select the Belt Drive

Note that the belt center distance range for this reducer and motor combination is 17.50" to 34.24". Note the minimum sheave pitch diameter for the 115SMTP25 is 3.4". Reducer input speed = 60 (conveyor speed) x 24.8558 (Exact Reducer Ratio) = 1491 rpm. From the pre-selected belt drive tables, select a belt drive with a center distance greater than $17.5 + 4.32 = 21.82"$. This drive (1496 driven speed) consists of a 2AK54H sheave with H 1 1/8" bushing, 2AK64H sheave with H 1 1/8" bushing and two AX58 Gripnotch belts.

8. Select the Belt Guard

Select the guard. Notice from the table that the CD range with the belt guard is 18.30 to 30.00" and the maximum reducer sheave that will fit into the belt guard in the top mount position is 14". Note that the part number is BGP14 18-30/115BGMKP, kit hardware required to mount the guard onto the reducer.

9. List the Components:

- | | |
|---|------------------------------------|
| 1, 115SMTP25 Reducer | 1, MMA107-115 Motor Mount Adapter |
| 1, 115-203WPP Waste Pack Cartridge | 1, MB107-115 Motor Base |
| 1, 115SCA-P Screw Conveyor Adapter | 2, H 1 1/8 Bushing |
| 1, 115DSP207 Screw Conveyor Drive Shaft Kit | 1, AK54H Sheave |
| 1, SCTE14x2 7/16 Trough End | 1, 2AK64H Sheave |
| 1, MMS115H Motor Mount Support | 1, AX64 Belt |
| | 1, BGP14 18-30/115BGMKP Belt Guard |

SMTP Exact Ratios

Reducer Size	Ratio Symbols				
	05	09	15	25	35
107	5.0588	8.8205	14.8276	24.7250	34.8778
115	4.7000	8.8125	14.7759	24.8558	34.9487
203	5.1053	8.8732	14.9231	24.7409	34.6429
207	5.1579	8.8308	14.7870	24.7094	35.0000
215	5.1667	8.8482	14.8187	24.8502	34.8154
307	5.1111	8.7925	14.9704	24.7692	34.8791
315	4.8824	8.8620	14.5744	24.4118	34.0513
407	5.0000	-	13.6842	25.0000	-
415	5.0833	-	13.9792	25.8403	-
507	-	-	13.6842	25.3846	-
608	-	-	13.9118	25.6555	-
800	-	-	-	24.9648	-

Note: See "Application Considerations" on back cover.

Classification Numbers

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
AGITATORS (Mixers)			
Pure Liquids	I	I	II
Liquids and Solids	I	II	II
Liquids - Variable Density	I	II	II
BLOWERS			
Centrifugal & Vane	I	I	II
Lobe	I	II	II
Vane	I	II	II
BREWING AND DISTILLING			
Bottling Machinery	I	I	II
Brew Kettles - Continuous Duty	II	II	II
Cookers - Continuous Duty	II	II	II
Mash Tubs - Continuous Duty	II	II	II
Scale Hopper - Frequent Starts	II	II	II
CAN FILLING MACHINES	I	I	II
CAR DUMPERS	II	III	III
CAR PULLERS	I	II	II
CLARIFIERS	I	I	II
CLASSIFIERS	I	II	II
CLAY WORKING MACHINERY			
Brick Presses	II	III	III
Briquette Machines	II	III	III
Pug Mills	I	II	II
COMPACTORS	◆	◆	◆
COMPRESSORS			
Centrifugal	I	I	II
Lobe	I	II	II
Reciprocating, Multi-Cylinder	II	II	III
Reciprocating, Single-Cylinder	III	III	III
CONVEYORS - GENERAL PURPOSE			
Includes Apron, Assembly, Belt, Bucket			
Chain, Flight, Oven, and Screw			
Uniformly Loaded or Fed	I	I	II
Heavy Duty - Not Uniformly Fed	I	II	II
Severe Duty - Reciprocating or Shaker	II	III	III
CRANES			
Dry Dock			
Main Hoist	◆	◆	◆
Auxiliary Hoist	◆	◆	◆
Boom Hoist	◆	◆	◆
Slewing Drive	◆	◆	◆
Traction Drive	◆	◆	◆
Container			
Main Hoist	◆	◆	◆
Boom Hoist	◆	◆	◆
Trolley Drive			
Gantry Drive	◆	◆	◆
Traction Drive	◆	◆	◆
Mill Duty			
Main Hoist	◆	◆	◆
Auxiliary	◆	◆	◆
Bridge Travel	◆	◆	◆
Trolley Travel	◆	◆	◆
Industrial Duty			
Main	◆	◆	◆
Auxiliary	◆	◆	◆
Bridge Travel	◆	◆	◆
Trolley Travel	◆	◆	◆
CRUSHERS			
Stone or Ore	III	III	III
DREDGES			
Cable Reels	II	II	II
Conveyors	II	II	II
Cutter Head Drives	III	III	III
Pumps	III	III	III
Screen Drives	III	III	III
Stackers	II	II	II
Winches	II	II	II
ELEVATORS			
Bucket	I	II	II
Centrifugal Discharge	I	I	II
Escalators	I	I	II
Freight	I	II	II
Gravity Discharge	I	I	II
EXTRUDERS			
General	II	II	II
Plastics			
Variable Speed Drive	III	III	III
Fixed Speed Drive	III	III	III
Rubber			
Continuous Screw Operation	III	III	III
Intermittent Screw Operation	III	III	III
FANS			
Centrifugal	I	I	II

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
FANS (Cont'd)			
Cooling Towers	III	III	III
Forced Draft	II	II	II
Induced Draft	II	II	II
Industrial & Mine	II	II	II
FEEDERS			
Apron	I	II	II
Belt	I	II	II
Disc	I	I	II
Reciprocating	II	III	III
Screw	I	II	II
FOOD INDUSTRY			
Cereal Cooker	I	I	II
Dough Mixer	II	II	II
Meat Grinders	II	II	II
Slicers	I	II	II
GENERATORS AND EXCITERS	II	II	II
HAMMER MILLS	III	III	III
HOISTS			
Heavy Duty	◆	◆	◆
Medium Duty	◆	◆	◆
Skip Hoist	◆	◆	◆
LAUNDRY TUMBLERS	II	II	II
LAUNDRY WASHERS	II	II	III
LUMBER INDUSTRY			
Barkers			
Spindle Feed	II	II	II
Main Drive	III	III	III
Conveyors			
Burner	II	II	II
Main or Heavy Duty	II	II	II
Main Log	III	III	III
Re-saw, Merry-Go-Round	II	II	II
Slab	III	III	III
Transfer	II	II	II
Chains			
Floor	II	II	II
Green	II	II	III
Cut-Off-Saws			
Chain	II	II	III
Drag	II	II	III
Debarking Drums	III	III	III
Feeds			
Edger	II	II	II
Gang	II	III	III
Trimmer	II	II	II
Log Deck	III	III	III
Log Hauls - Incline - Well Type	III	III	III
Log Turning Devices	III	III	III
Planer Feed	II	II	II
Planer Tilting Hoists	II	II	II
Rolls - Live-Off Brg - Roll Cases	III	III	III
Sorting Table	II	II	II
Tipple Hoist	II	II	II
Transfer			
Chain	II	II	III
Craneway	II	II	II
Tray Drives	II	II	II
Veneer Lathe Drives	II	II	II
METAL MILLS			
Draw Bench Carriage and Main Drive	II	II	II
Runout Table			
Non-Reversing			
Group Drives	II	II	II
Individual Drives	III	III	III
Reversing	III	III	III
Slab Pushers	II	II	II
Shears	III	III	III
Wire Drawing	II	II	II
Wire Winding Machine	II	II	II
METAL STRIP PROCESSING MACHINERY			
Bridges	II	II	II
Collers & Uncoilers	I	I	II
Edge Trimmers	I	II	II
Flatteners	II	II	II
Loopers (Accumulators)	I	I	I
Pinch Rolls	II	II	II
Scrap Choppers	II	II	II
Shears	III	III	III
Slitters	I	II	II
MILLS, ROTARY TYPE			
Ball & Rod			
Spur Ring Gear	III	III	III
Helical Ring Gear	II	II	II
Direct Connected	III	III	III

Classification Numbers

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
MILLS, ROTARY TYPE (Cont'd)			
Cement Kilns	II	II	II
Dryers & Coolers	II	II	II
PAPER MILLS ¹⁾			
Agitator (Mixer)	II	II	II
Agitator For Pure Liquors	II	II	II
Barking Drums	III	III	III
Barkers - Mechanical	III	III	III
Beater	II	II	II
Breaker Stack	II	II	II
Calendar ²⁾	II	II	II
Chipper	III	III	III
Chip Feeder	II	II	II
Coating Rolls	II	II	II
Conveyors			
Chip, Bark, Chemical	II	II	II
Log (Including Slab)	III	III	III
Couch Rolls	II	II	II
Cutter	III	III	III
Cylinder Molds	II	II	II
Dryers ²⁾			
Paper Machine	II	II	II
Conveyor Type	II	II	II
Embosser	II	II	II
Extruder	II	II	II
Fourdrinier Rolls (Includes Lump Breaker, Dandy Roll, Wire Turning, and Return Rolls)	II	II	II
Jordan	II	II	II
Kiln Drive	II	II	II
Mt. Hope Roll	II	II	II
Paper Rolls	II	II	II
Platter	II	II	II
Presses - Felt Suction	II	II	II
Pulper	III	III	III
Pumps - Vacuum	II	II	II
Reel (Surface - Type)	II	II	II
Screens			
Chip	II	II	II
Rotary	II	II	II
Vibrating	III	III	III
Size Press	II	II	II
Supercalendar	II	II	II
Thickener (AC Motor)	II	II	II
Thickener (DC Motor)	II	II	II
Washer (AC Motor)	II	II	II
Washer (DC Motor)	II	II	II
Wind and Unwind Stand	I	I	I
II II			
PLASTICS INDUSTRY			
PRIMARY PROCESSING			
Intensive Internal Mixers			
Batch Mixers	III	III	III
Continuous Mixers	II	II	II
Batch Drop Mill - 2 Smooth Rolls	II	II	II
Continuous Feed, Holding & Blend Mill	II	II	II
Calendars	II	II	II
PLASTICS INDUSTRY			
SECONDARY PROCESSING			
Blow Molders	II	II	II
Coating	II	II	II
Film	II	II	II
Pipe	II	II	II
Pre-Plasticizers	II	II	II
Rods	II	II	II
Sheet	II	II	II
Tubing	II	II	II
PULLERS - BARGE HAUL	II	II	II
PUMPS			
Centrifugal	I	I	II
Proportioning	II	II	II
Reciprocating			
Single Acting, 3 or more Cylinders	II	II	II
Double Acting, 2 or more Cylinders	II	II	II
Rotary			
Gear Type	I	I	II
Lobe	I	I	II
Vane	I	I	II
RUBBER INDUSTRY			
Intensive Internal Mixers			
Batch Mixers	III	III	III
Continuous Mixers	II	II	II
Mixing Mill			
2 Smooth Rolls	II	II	II
1 or 2 Corrugated Rolls	III	III	III
RUBBER INDUSTRY (Cont'd)			

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
Batch Drop Mill - 2 Smooth Rolls	II	II	II
Cracker Warmer - 2 Roll, 1 Corrugated Roll	III	III	III
Cracker - 2 Corrugated Rolls	III	III	III
Holding, Feed & Blend Mill - 2 Rolls	II	II	II
Refiner - 2 Rolls	II	II	II
Calendars	II	II	II
SAND MULLER	II	II	II
SEWAGE DISPOSAL EQUIPMENT			
Bar Screens	II	II	II
Chemical Feeder	II	II	II
Dewatering Screens	II	II	II
Scum Breakers	II	II	II
Slow or Rapid Mixers	II	II	II
Sludge Collectors	II	II	II
Thickener	II	II	II
Vacuum Filters	II	II	II
SCREENS			
Air Washing	I	I	II
Rotary - Stone or Gravel	II	II	II
Traveling Water Intake	I	I	I
SCREW CONVEYORS			
Uniformly Loaded or Fed	I	I	II
Heavy Duty	I	II	II
SUGAR INDUSTRY			
Beet Slicer	III	III	III
Cane Knives	II	II	II
Crushers	II	II	II
Mills (Low Speed End)	III	III	III
TEXTILE INDUSTRY			
Batchers	II	II	II
Calendars	II	II	II
Cards	II	II	II
Dry Cans	II	II	II
Dyeing Machinery	II	II	II
Looms	II	II	II
Mangles	II	II	II
Nappers	II	II	II
Pads	II	II	II
Slashers	II	II	II
Soapers	II	II	II
Spinners	II	II	II
Tenter Frames	II	II	II
Washers	II	II	II
Winders	II	II	II

Notes:

- 1) The Class numbers listed in the table for paper mill applications are consistent with those shown in TAPPI (Technical Association of Pulp and Paper Industry) Technical information sheet 0406-18 1967, *Service Factors for Gears on Major Equipment in the Pulp and Paper Industry*.
 - 2) Anti-friction bearings only.
- ◆ Contact Application Engineering (1 800 626 2093) for the selection of AGMA Class Numbers in these applications.

Class I Service (1.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
1/4 HP MOTOR		
5 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.8
	107SMTP09	4.7
51 - 80	107SMTP25	2.3
	107SMTP15	2.8
	107SMTP09	4.7
81 - 89	107SMTP15	2.8
	107SMTP09	4.7
90 - 130	107SMTP15	2.8
	107SMTP09	4.7
	107SMTP05	4.6
131 - 200	107SMTP09	4.7
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
1/3 HP MOTOR		
5 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.8
	107SMTP09	4.7
51 - 80	107SMTP25	2.3
	107SMTP15	2.8
	107SMTP09	4.7
81 - 89	107SMTP15	2.8
	107SMTP09	4.7
90 - 130	107SMTP15	2.8
	107SMTP09	4.7
	107SMTP05	4.6
131 - 200	107SMTP09	4.7
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
1/2 HP MOTOR		
5 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.8
	107SMTP09	4.7
51 - 80	107SMTP25	2.3
	107SMTP15	2.8
	107SMTP09	4.7
81 - 89	107SMTP15	2.8
	107SMTP09	4.7
90 - 130	107SMTP15	2.8
	107SMTP09	4.7
	107SMTP05	4.6
131 - 200	107SMTP09	4.7
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
3/4 HP MOTOR		
5	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
6 - 7	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
8 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.6
	107SMTP09	4.4

Output RPM	Reducer Size	Minimum Sheave P.D.
3/4 HP MOTOR (Cont'd)		
51 - 80	107SMTP25	2.3
	107SMTP15	2.6
	107SMTP09	4.4
81 - 89	107SMTP15	2.6
	107SMTP09	4.4
90 - 130	107SMTP15	2.6
	107SMTP09	4.4
	107SMTP05	4.6
131 - 200	107SMTP09	4.4
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
1 HP MOTOR		
5 - 6	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
7 - 9	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
10 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.8
51 - 80	107SMTP09	4.7
	107SMTP25	2.3
81 - 89	107SMTP15	2.8
	107SMTP09	4.7
90 - 130	107SMTP15	2.8
	107SMTP09	4.7
	107SMTP05	4.6
131 - 200	107SMTP09	4.7
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
1 1/2 HP MOTOR		
5	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.4
6 - 10	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	4.3
11 - 15	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
16 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.6
	107SMTP09	4.4
51 - 80	107SMTP25	2.3
	107SMTP15	2.6
	107SMTP09	4.4
81 - 89	107SMTP15	2.6
	107SMTP09	4.4
90 - 130	107SMTP15	2.6
	107SMTP09	4.4
	107SMTP05	4.6

Output RPM	Reducer Size	Minimum Sheave P.D.
1 1/2 HP MOTOR (Cont'd)		
131 - 200	107SMTP09	4.4
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
2 HP MOTOR		
5 - 8	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.4
9 - 14	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
15 - 20	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
21 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.7
	107SMTP09	4.5
51 - 80	107SMTP25	2.3
	107SMTP15	2.7
	107SMTP09	4.5
81 - 89	107SMTP15	2.7
	107SMTP09	4.5
90 - 130	107SMTP15	2.7
	107SMTP09	4.5
	107SMTP05	4.6
131 - 200	107SMTP09	4.5
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
3 HP MOTOR		
5 - 7	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
8 - 12	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
13 - 22	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	4.0
23 - 31	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
32 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.6
	107SMTP09	4.4
51 - 80	107SMTP25	2.3
	107SMTP15	2.6
	107SMTP09	4.4
81 - 89	107SMTP15	2.6
	107SMTP09	4.4
90 - 130	107SMTP15	2.6
	107SMTP09	4.4
	107SMTP05	4.6

Class I Service (1.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
3 HP MOTOR (Cont'd)		
131 - 200	107SMTP09	4.4
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
5 HP MOTOR		
5 - 7	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
8 - 13	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
14 - 21	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
22 - 38	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
39 - 50	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
51 - 54	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
55 - 80	107SMTP25	2.8
	107SMTP15	2.8
	107SMTP09	4.3
81 - 89	107SMTP15	2.8
	107SMTP09	4.3
90 - 130	107SMTP15	2.8
	107SMTP09	4.3
	107SMTP05	4.6
131 - 200	107SMTP09	4.3
	107SMTP05	4.6
201 - 400	107SMTP05	4.6
7 1/2 HP MOTOR		
5	407SMTP25B	6.4
	407SMTP15B	6.4
6	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	7.1
7 - 12	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.5
13 - 20	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
21 - 33	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
34 - 50	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8

Output RPM	Reducer Size	Minimum Sheave P.D.
7 1/2 HP MOTOR (Cont'd)		
51 - 58	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
59 - 80	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
81 - 83	115SMTP15	3.4
	115SMTP09	3.4
84 - 89	107SMTP15	2.8
	107SMTP09	4.2
90 - 130	107SMTP15	2.8
	107SMTP09	4.2
	115SMTP05	9.8
131 - 160	107SMTP09	4.2
	115SMTP05	9.8
161 - 200	107SMTP09	4.2
	107SMTP05	3.8
201 - 400	107SMTP05	3.8
10 HP MOTOR		
5 - 7	407SMTP25B	6.4
	407SMTP15B	6.4
8 - 9	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	7.1
10 - 16	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.1
17 - 27	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
28 - 46	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
47 - 50	207SMTP35	4.3
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
51 - 80	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
81 - 89	115SMTP15	3.6
	115SMTP09	3.6
90 - 114	115SMTP15	3.6
	115SMTP09	3.6
	115SMTP05	9.8
115 - 130	107SMTP15	3.6
	107SMTP09	4.1
	115SMTP05	9.8
131 - 200	107SMTP09	4.1
	115SMTP05	9.8
201 - 244	115SMTP05	9.8
245 - 400	107SMTP05	3.6
15 HP MOTOR		
5 - 7	415SMTP25B	7.1
	415SMTP15B	7.1

Output RPM	Reducer Size	Minimum Sheave P.D.
15 HP MOTOR (Cont'd)		
8 - 11	407SMTP25B	6.4
	407SMTP15B	6.4
12 - 14	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	7.1
15 - 25	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.1
26 - 42	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
43 - 50	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
51 - 80	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
81 - 89	203SMTP15	3.8
	203SMTP09	3.8
90 - 121	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP05	6.4
122 - 130	203SMTP15	3.8
	115SMTP09	3.4
	203SMTP05	6.4
131 - 161	115SMTP09	3.4
	203SMTP05	6.4
162 - 200	115SMTP09	3.4
	115SMTP05	9.6
201 - 400	115SMTP05	9.6
20 HP MOTOR		
5 - 6	507SMTP25B	7.9
	507SMTP15B	8.3
7 - 9	415SMTP25B	7.1
	415SMTP15B	7.1
10 - 14	407SMTP25B	6.4
	407SMTP15B	6.4
15 - 19	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	7.6
20 - 34	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.1
35 - 50	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
51 - 61	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
61 - 80	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3

Class I Service (1.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
20 HP MOTOR (Cont'd)		
81 - 89	207SMTP15	4.3
	207SMTP09	4.3
90 - 120	207SMTP15	4.3
	207SMTP09	4.3
	207SMTP05	9.8
121 - 130	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP05	6.8
131 - 200	203SMTP09	3.8
	203SMTP05	6.8
201 - 244	203SMTP05	6.8
245 - 400	115SMTP05	9.4
25 HP MOTOR		
5	608SMTP25B	8.0
	608SMTP15B	11.4
6 - 8	507SMTP25B	7.9
	507SMTP15B	8.7
9 - 12	415SMTP25B	7.1
	415SMTP15B	7.1
13 - 18	407SMTP25B	6.4
	407SMTP15B	6.4
19 - 24	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	7.5
25 - 44	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.1
45 - 50	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
51 - 80	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
81 - 89	207SMTP15	4.3
	207SMTP09	4.7
90 - 125	207SMTP15	4.3
	207SMTP09	4.7
	215SMTP05	6.2
126 - 130	207SMTP15	4.3
	207SMTP09	4.7
	207SMTP05	9.6
131 - 159	207SMTP09	4.7
	207SMTP05	9.6
160 - 200	203SMTP09	3.8
	203SMTP05	6.8
201 - 337	203SMTP05	6.8
338 - 400	115SMTP05	9.3
30 HP MOTOR		
5 - 6	608SMTP25B	8.1
	608SMTP15B	11.4
7 - 10	507SMTP25B	7.9
	507SMTP15B	8.9
11 - 15	415SMTP25B	7.1
	415SMTP15B	7.1
16 - 23	407SMTP25B	6.4
	407SMTP15B	6.4

Output RPM	Reducer Size	Minimum Sheave P.D.
30 HP MOTOR (Cont'd)		
24 - 30	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	7.1
31 - 50	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
51 - 55	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
56 - 80	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
81 - 89	215SMTP15	5.6
	215SMTP09	5.6
90 - 103	215SMTP15	5.6
	215SMTP09	5.6
	215SMTP05	6.2
104 - 130	207SMTP15	4.3
	207SMTP09	5.2
	215SMTP05	6.2
131 - 162	207SMTP09	5.2
	215SMTP05	6.2
163 - 200	207SMTP09	5.2
	207SMTP05	9.5
201 - 215	207SMTP05	9.5
215 - 400	203SMTP05	6.7
40 HP MOTOR		
5	800SMTP25	12.0
6 - 9	608SMTP25B	8.1
	608SMTP15B	12.7
10 - 14	507SMTP25B	7.9
	507SMTP15B	8.3
15 - 20	415SMTP25B	7.1
	415SMTP15B	7.1
21 - 31	407SMTP25B	6.4
	407SMTP15B	6.4
32 - 43	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	7.4
44 - 50	307SMTP35●	6.0
	307SMTP25●	6.0
	307SMTP15	6.0
	307SMTP09	6.9
51 - 76	307SMTP25●	6.0
	307SMTP15	6.0
	307SMTP09	6.9
77 - 80	307SMTP25●	6.0
	307SMTP15	6.0
	215SMTP09	5.7
81 - 89	307SMTP15	6.0
	215SMTP09	5.6
90 - 130	215SMTP15	5.6
	215SMTP09	5.6
	307SMTP05	7.8
131 - 156	215SMTP09	5.8
	215SMTP05	6.3

Output RPM	Reducer Size	Minimum Sheave P.D.
40 HP MOTOR (Cont'd)		
157 - 200	207SMTP09	5.8
	215SMTP05	6.3
201 - 246	215SMTP05	6.3
247 - 327	207SMTP05	9.3
328 - 400	203SMTP05	6.5
50 HP MOTOR		
5 - 7	800SMTP25	12.0
8 - 11	608SMTP25B	8.1
	608SMTP15B	11.9
12 - 18	507SMTP25B	7.9
	507SMTP15B	8.7
19 - 25	415SMTP25B	7.1
	415SMTP15B	7.1
26 - 39	407SMTP25B●	6.4
	407SMTP15B	6.4
40 - 50	315SMTP35●	6.4
	315SMTP25●	6.4
	315SMTP15	6.4
	315SMTP09	8.6
51 - 58	315SMTP25●	6.4
	315SMTP15	6.4
	315SMTP09	8.6
59 - 80	307SMTP25●	6.0
	307SMTP15●	6.0
	307SMTP09●	7.8
81 - 89	307SMTP15●	6.0
	307SMTP09●	7.8
90 - 99	307SMTP15●	6.0
	307SMTP09●	7.8
	315SMTP05	20.3
100 - 104	307SMTP15●	6.0
	307SMTP09●	7.8
	307SMTP05	9.0
105 - 130	307SMTP15●	6.0
	215SMTP09	5.6
	307SMTP05	9.0
131 - 182	215SMTP09	5.6
	307SMTP05	9.0
183 - 200	215SMTP09	5.6
	215SMTP05	6.2
201 - 340	215SMTP05	6.2
341 - 400	207SMTP05	9.1
60 HP MOTOR		
5	◆	
6 - 9	800SMTP25	12.0
10 - 14	608SMTP25B	8.1
	608SMTP15B	11.4
15 - 22	507SMTP25B	7.9
	507SMTP15B	8.3
23 - 31	415SMTP25B	7.1
	415SMTP15B	7.1
32 - 48	407SMTP25B●	6.4
	407SMTP15B●	6.4
49 - 50	315SMTP35●	6.4
	315SMTP25●	6.4
	315SMTP15●	6.4
	315SMTP09●	9.9
51 - 74	315SMTP25●	6.4
	315SMTP15●	6.4
	315SMTP09●	9.9

Notes:
 ● Requires fan kit.
 ▲ Requires pump and cooler kit.
 ◆ Contact Application Engineering (1 800 626 2093) for the selection of an enclosed gear drive.

Class I Service (1.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
60 HP MOTOR (Cont'd)		
75 - 80	307SMTP25●	6.0
	307SMTP15●	6.0
	307SMTP09●	8.9
81 - 89	307SMTP15●	6.0
	307SMTP09●	8.9
90 - 130	307SMTP15●	6.0
	307SMTP09●	8.9
	315SMTP05●	20.3
131 - 200	307SMTP09●	8.9
	307SMTP05●	8.8
201 - 240	307SMTP05●	8.8
241 - 400	215SMTP05●	6.1
75 HP MOTOR		
5 - 7	◆	
8 - 11	800SMTP25	12.0
12 - 18	608SMTP25B	8.1
	608SMTP15B	11.9
19 - 28	507SMTP25B	7.9
	507SMTP15B	8.2
29 - 40	415SMTP25B●	7.1
	415SMTP15B	7.1
41 - 61	407SMTP25B●	6.4
	407SMTP15B●	6.6
62 - 80	315SMTP25●	6.4
	315SMTP15●	6.4
	315SMTP09●	12.0
81 - 89	315SMTP15●	6.4
	315SMTP09●	12.0
90 - 103	315SMTP15●	6.4
	315SMTP09●	12.0
	407SMTP05B	28.0
103 - 123	307SMTP15●	6.0
	307SMTP09●	9.8
	407SMTP05B	28.0
124 - 130	307SMTP15●	6.0
	307SMTP09●	9.8
	315SMTP05	19.9
131 - 181	307SMTP09●	9.8
	315SMTP05	19.9
182 - 200	307SMTP09●	9.8
	307SMTP05	8.7
201 - 337	307SMTP05	8.7
338 - 400	215SMTP05	6.0
100 HP MOTOR		
5 - 9	◆	
10 - 15	800SMTP25	12.0
16 - 24	608SMTP25B	8.1
	608SMTP15B	12.7
25 - 38	507SMTP25B●	7.9
	507SMTP15B	9.9
39 - 54	415SMTP25B●	7.1
	415SMTP15B●	7.1
55 - 80	407SMTP25B●	6.7
	407SMTP15B●	6.7
81 - 87	407SMTP15B●	6.7
88 - 89	407SMTP15B●	6.7
	315SMTP09●	14.3

Output RPM	Reducer Size	Minimum Sheave P.D.
100 HP MOTOR (Cont'd)		
90 - 95	407SMTP15B●	6.7
	315SMTP09●	14.3
	415SMTP05B	40.5
96 - 106	315SMTP15●	6.4
	315SMTP09●	14.3
	415SMTP05B	40.5
107 - 117	315SMTP15●	6.4
	315SMTP09●	14.3
	407SMTP05B	32.7
118 - 130	315SMTP15●	6.4
	315SMTP09●	14.3
	407SMTP05B	30.4
131 - 155	315SMTP09●	14.3
	407SMTP05B	30.4
156 - 186	307SMTP09▲	9.6
	407SMTP05B	30.4
187 - 200	307SMTP09▲	9.6
	315SMTP05	19.6
201 - 280	315SMTP05	19.6
281 - 400	307SMTP05●	8.4
125 HP MOTOR		
5 - 12	◆	
13 - 20	800SMTP25	12.0
21 - 31	608SMTP25B●	8.3
	608SMTP15B	17.3
32 - 51	507SMTP25B●	7.9
	507SMTP15B	11.7
52 - 74	415SMTP25B●	7.1
	415SMTP15B●	7.1
75 - 80	407SMTP25B●	6.7
	407SMTP15B●	6.7
81 - 121	407SMTP15B●	6.7
	415SMTP05B	40.5
122 - 130	407SMTP15B●	6.7
	315SMTP09▲	14.0
	415SMTP05B	40.5
131 - 146	315SMTP09▲	14.0
	415SMTP05B	40.5
147 - 200	315SMTP09▲	14.0
	407SMTP05B	29.9
201 - 256	407SMTP05B	29.9
257 - 394	315SMTP05●	19.2
395 - 400	307SMTP05●	8.2
150 HP MOTOR		
5 - 15	◆	
16 - 24	800SMTP25	12.0
25 - 40	608SMTP25B●	10.5
	608SMTP15B	23.4
41 - 67	507SMTP25B●	7.9
	507SMTP15B	11.9
68 - 80	415SMTP25B▲	7.1
	415SMTP15B●	7.1
81 - 111	415SMTP15B●	7.1
112 - 130	415SMTP15B●	7.1
	415SMTP05B	41.3
131 - 159	415SMTP05B	41.3
160 - 190	315SMTP09▲	13.6
	415SMTP05B	41.3
191 - 200	315SMTP09▲	13.6
	407SMTP05B●	29.4
201 - 334	407SMTP05B●	29.4
335 - 400	315SMTP05●	19.0

Output RPM	Reducer Size	Minimum Sheave P.D.
200 HP MOTOR		
5 - 20	◆	
21 - 35	800SMTP25●	12.0
36 - 61	608SMTP25B●	11.5
	608SMTP15B●	20.9
62 - 80	507SMTP25B▲	11.5
	507SMTP15B●	11.9
81 - 101	507SMTP15B●	11.9
102 - 130	415SMTP15B▲	7.1
131 - 168	◆	
169 - 317	415SMTP05B●	40.4
318 - 400	407SMTP05B●	28.5
250 HP MOTOR		
5 - 26	◆	
27 - 50	800SMTP25●	12.0
51 - 80	608SMTP25B▲	10.5
	608SMTP15B▲	19.1
81 - 84	608SMTP15B▲	19.1
85 - 130	507SMTP15B▲	11.9
131 - 232	◆	
233 - 400	415SMTP05B●	39.9
300 HP MOTOR		
5 - 32	◆	
33 - 66	800SMTP25▲	12.0
67 - 80	608SMTP25B▲	10.4
	608SMTP15B▲	17.9
81 - 110	608SMTP15B▲	17.9
111 - 130	507SMTP15B▲	11.8
131 - 302	◆	
303 - 400	415SMTP05B▲	39.4
350 HP MOTOR		
5 - 38	◆	
39 - 80	800SMTP25▲	12.0
81 - 84	◆	
85 - 130	608SMTP15B▲	16.8
131 - 378	◆	
379 - 400	415SMTP05B▲	39.0
400 HP MOTOR		
5 - 44	◆	
45 - 80	800SMTP25▲	12.0
81 - 104	◆	
105 - 130	608SMTP15B▲	15.8
131 - 400	◆	
450 HP MOTOR		
5 - 50	◆	
51 - 80	800SMTP25▲	12.0
81 - 125	◆	
126 - 130	608SMTP15B▲	15.1
131 - 400	◆	
500 HP MOTOR		
5 - 56	◆	
57 - 80	800SMTP25▲	12.0
81 - 400	◆	
600 HP MOTOR		
5 - 68	◆	
69 - 80	800SMTP25▲	12.0
81 - 400	◆	
700 HP MOTOR		
5 - 400	◆	

Notes:

- Requires fan kit.
- ▲ Requires pump and cooler kit.
- ◆ Contact Application Engineering (1 800 626 2093) for the selection of an enclosed gear drive.

Class II Service (1.4 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
1/4 HP MOTOR		
5 - 50	107SMTP35	2.3
	107SMTP25	2.2
	107SMTP15	2.2
	107SMTP09	3.2
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.2
81 - 89	107SMTP15	2.3
	107SMTP09	3.2
90 - 130	107SMTP15	2.3
	107SMTP09	3.2
	107SMTP05	2.8
131 - 200	107SMTP09	3.2
	107SMTP05	2.8
201 - 400	107SMTP05	2.7
1/3 HP MOTOR		
5 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.2
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.2
81 - 89	107SMTP15	2.3
	107SMTP09	3.2
90 - 130	107SMTP15	2.3
	107SMTP09	3.2
	107SMTP05	2.8
131 - 200	107SMTP09	3.2
	107SMTP05	2.8
201 - 400	107SMTP05	2.8
1/2 HP MOTOR		
5 - 6	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
7 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.4
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.4
81 - 89	107SMTP15	2.3
	107SMTP09	3.4
90 - 130	107SMTP15	2.3
	107SMTP09	3.4
	107SMTP05	2.8
131 - 200	107SMTP09	3.4
	107SMTP05	2.8
201 - 400	107SMTP05	2.8
3/4 HP MOTOR		
5 - 7	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8

Output RPM	Reducer Size	Minimum Sheave P.D.
3/4 HP MOTOR (Cont'd)		
8 - 10	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
11 - 50	107SMTP35	2.2
	107SMTP25	2.2
	107SMTP15	2.3
	107SMTP09	3.2
51 - 80	107SMTP25	2.2
	107SMTP15	2.3
	107SMTP09	3.2
81 - 89	107SMTP15	2.3
	107SMTP09	3.2
90 - 130	107SMTP15	2.3
	107SMTP09	3.2
	107SMTP05	2.8
131 - 200	107SMTP09	3.2
	107SMTP05	2.8
201 - 400	107SMTP05	2.8
1 HP MOTOR		
5	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
6 - 10	203SMTP35	3.7
	203SMTP25	3.7
	203SMTP15	3.7
	203SMTP09	3.7
11 - 13	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
14 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.4
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.4
81 - 89	107SMTP15	2.3
	107SMTP09	3.4
90 - 130	107SMTP15	2.3
	107SMTP09	3.4
	107SMTP05	2.8
131 - 200	107SMTP09	3.4
	107SMTP05	2.8
201 - 400	107SMTP05	2.8
1 1/2 HP MOTOR		
5	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
6 - 8	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3

Output RPM	Reducer Size	Minimum Sheave P.D.
1 1/2 HP MOTOR (Cont'd)		
9 - 15	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
16 - 21	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
22 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.2
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.2
81 - 89	107SMTP15	2.3
	107SMTP09	3.2
90 - 130	107SMTP15	2.3
	107SMTP09	3.2
	107SMTP05	2.8
131 - 200	107SMTP09	3.2
	107SMTP05	2.8
201 - 400	107SMTP05	2.8
2 HP MOTOR		
5 - 7	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
8 - 11	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
12-20	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
21-28	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
29-50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.3
51-80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.3
81-89	107SMTP15	2.3
	107SMTP09	3.3
90-130	107SMTP15	2.3
	107SMTP09	3.3
	107SMTP05	2.8
131-200	107SMTP09	3.3
	107SMTP05	2.8
201-400	107SMTP05	2.8

Class II Service (1.4 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
3 HP MOTOR		
5-6	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
7-11	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
12-18	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
19-31	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
32-44	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
45-50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.2
51-80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.2
81-89	107SMTP15	2.3
	107SMTP09	3.2
	107SMTP05	2.8
90-130	107SMTP15	2.3
	107SMTP09	3.2
	107SMTP05	2.8
131-200	107SMTP09	3.2
	107SMTP05	2.8
	107SMTP05	2.8
5 HP MOTOR		
5 - 6	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
7 - 11	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
12 - 19	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
20 - 30	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
31 - 50	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
51 - 54	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP09	3.8

Output RPM	Reducer Size	Minimum Sheave P.D.
5 HP MOTOR (Cont'd)		
55 - 77	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
78 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	3.0
81 - 89	107SMTP15	2.3
	107SMTP09	3.0
90 - 130	107SMTP15	2.3
	107SMTP09	3.0
	115SMTP05	4.9
131 - 144	107SMTP09	3.0
	115SMTP05	4.9
145 - 200	107SMTP09	3.0
	107SMTP05	2.8
	107SMTP05	2.8
7 1/2 HP MOTOR		
5 - 7	407SMTP25B	6.4
	407SMTP15B	6.4
8 - 9	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
10 - 17	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
18 - 29	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
30 - 46	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
47 - 50	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
51 - 80	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
81 - 82	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP09	3.8
83 - 89	115SMTP15	3.4
	115SMTP09	3.4
90 - 96	115SMTP15	3.4
	115SMTP09	3.4
	203SMTP05	4.2
97 - 119	115SMTP15	3.4
	115SMTP09	3.4
	115SMTP05	7.0
	115SMTP05	7.0
120 - 130	107SMTP15	2.3
	107SMTP09	3.0
	115SMTP05	7.0
131 - 200	107SMTP09	3.0
	115SMTP05	7.0

Output RPM	Reducer Size	Minimum Sheave P.D.
7 1/2 HP MOTOR (Cont'd)		
201 - 261	115SMTP05	7.0
262 - 400	107SMTP05	2.4
10 HP MOTOR		
5 - 6	415SMTP25B	7.1
	415SMTP15B	7.1
7 - 10	407SMTP25B	6.4
	407SMTP15B	6.4
11 - 13	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
14 - 23	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
24 - 39	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
40 - 50	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
51 - 71	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
72 - 80	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
81 - 89	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP09	3.8
90 - 111	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP05	4.2
	203SMTP05	4.2
112 - 130	115SMTP15	3.4
	115SMTP09	3.4
	203SMTP05	4.2
131 - 145	115SMTP09	3.4
	203SMTP05	4.2
146 - 175	115SMTP09	3.4
	115SMTP05	6.9
176 - 200	107SMTP09	2.7
	115SMTP05	6.9
201 - 400	115SMTP05	6.9
15 HP MOTOR		
5 - 7	507SMTP25B	7.9
	507SMTP15B	7.9
8 - 10	415SMTP25B	7.1
	415SMTP15B	7.1
11 - 15	407SMTP25B	6.4
	407SMTP15B	6.4
16 - 20	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
21 - 36	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0

Class II Service (1.4 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
15 HP MOTOR (Cont'd)		
37 - 50	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
51 - 66	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
67 - 80	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
81 - 89	207SMTP15	4.3
	207SMTP09	4.3
90 - 97	207SMTP15	4.3
	207SMTP09	4.3
	215SMTP05	5.6
98 - 122	207SMTP15	4.3
	207SMTP09	4.3
	207SMTP05	6.9
123 - 130	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP05	4.9
131 - 181	203SMTP09	3.8
	203SMTP05	4.9
182 - 200	115SMTP09	3.4
	203SMTP05	4.9
201 - 261	203SMTP05	4.9
262 - 400	115SMTP05	6.7
20 HP MOTOR		
5 - 6	608SMTP25B	8.1
	608SMTP15B	8.1
7 - 9	507SMTP25B	7.9
	507SMTP15B	7.9
10 - 13	415SMTP25B	7.1
	415SMTP15B	7.1
14 - 21	407SMTP25B	6.4
	407SMTP15B	6.4
22 - 27	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
28 - 50	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
51 - 80	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
	215SMTP05	5.6
81 - 89	215SMTP15	5.6
	215SMTP09	5.6
90 - 96	215SMTP15	5.6
	215SMTP09	5.6
	215SMTP05	5.6
97 - 130	207SMTP15	4.3
	207SMTP09	4.3
	215SMTP05	5.6
131 - 147	207SMTP09	4.3
	215SMTP05	5.6
148 - 189	207SMTP09	4.3
	207SMTP05	6.8

Output RPM	Reducer Size	Minimum Sheave P.D.
20 HP MOTOR (Cont'd)		
190 - 200	203SMTP09	3.8
	203SMTP05	4.8
201 - 396	203SMTP05	4.8
397 - 400	115SMTP05	6.5
25 HP MOTOR		
5	◆	
6 - 7	608SMTP25B	8.1
	608SMTP15B	8.1
8 - 12	507SMTP25B	7.9
	507SMTP15B	7.9
13 - 17	415SMTP25B	7.1
	415SMTP15B	7.1
18 - 27	407SMTP25B	6.4
	407SMTP15B	6.4
28 - 35	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
36 - 50	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
51 - 62	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
63 - 80	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
81 - 89	215SMTP15	5.6
	215SMTP09	5.6
	215SMTP05	5.6
90 - 107	215SMTP15	5.6
	215SMTP09	5.6
	307SMTP05	6.0
108 - 130	215SMTP15	5.6
	215SMTP09	5.6
	215SMTP05	5.6
131 - 200	207SMTP09	4.3
	215SMTP05	5.6
201 - 269	207SMTP05	6.7
270 - 400	203SMTP05	4.7
30 HP MOTOR		
5 - 6	800SMTP25	12.0
7 - 9	608SMTP25B	8.1
	608SMTP15B	8.2
10 - 15	507SMTP25B	7.9
	507SMTP15B	7.9
16 - 21	415SMTP25B	7.1
	415SMTP15B	7.1
22 - 33	407SMTP25B	6.4
	407SMTP15B	6.4
34 - 45	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
46 - 50	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0

Output RPM	Reducer Size	Minimum Sheave P.D.
30 HP MOTOR (Cont'd)		
51 - 80	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
81 - 89	307SMTP15	6.0
	215SMTP09	5.6
90 - 130	215SMTP15	5.6
	215SMTP09	5.6
	307SMTP05	6.0
131 - 140	215SMTP09	5.6
	307SMTP05	6.0
141 - 167	215SMTP09	5.6
	215SMTP05	5.6
168 - 200	207SMTP09	4.3
	215SMTP05	5.6
201 - 264	215SMTP05	5.6
	207SMTP05	6.6
265 - 351	207SMTP05	6.6
352 - 400	203SMTP05	4.6
40 HP MOTOR		
5	◆	
6 - 8	800SMTP25	12.0
9 - 13	608SMTP25B	8.1
	608SMTP15B	8.5
14 - 20	507SMTP25B	7.9
	507SMTP15B	7.9
21 - 29	415SMTP25B	7.1
	415SMTP15B	7.1
30 - 45	407SMTP25B	6.4
	407SMTP15B	6.4
46 - 50	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.7
51 - 70	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.7
71 - 80	307SMTP25●	6.0
	307SMTP15	6.0
	307SMTP09	6.0
81 - 89	307SMTP15	6.0
	307SMTP09	6.0
90 - 117	307SMTP15	6.0
	307SMTP09	6.0
	315SMTP05	13.5
118 - 122	307SMTP15	6.0
	307SMTP09	6.0
	307SMTP05	6.4
123 - 130	215SMTP15	5.6
	215SMTP09	5.6
	307SMTP05	6.4
131 - 200	215SMTP09	5.6
	307SMTP05	6.4
201 - 216	307SMTP05	6.4
217 - 400	215SMTP05	5.6
50 HP MOTOR		
5 - 6	◆	
7 - 10	800SMTP25	12.0
11 - 16	608SMTP25B	8.1
	608SMTP15B	8.6
17 - 26	507SMTP25B	7.9
	507SMTP15B	7.9

Notes:
 ● Requires fan kit.
 ▲ Requires pump and cooler kit.
 ◆ Contact Application Engineering (1 800 626 2093) for the selection of an enclosed gear drive.

Class II Service (1.4 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
50 HP MOTOR (Cont'd)		
27 - 37	415SMTP25B	7.1
	415SMTP15B	7.1
38 - 57	407SMTP25B●	6.4
	407SMTP15B	6.4
58 - 80	315SMTP25●	6.4
	315SMTP15	6.4
	315SMTP09	8.0
81 - 89	315SMTP15	6.4
	315SMTP09	8.0
90 - 111	307SMTP15●	6.0
	307SMTP09●	7.2
	307SMTP05	18.7
112 - 130	307SMTP15●	6.0
	307SMTP09●	7.2
	315SMTP05	14.4
131 - 163	307SMTP09●	7.2
	315SMTP05	14.3
164 - 169	307SMTP09●	7.2
	307SMTP05	6.3
170 - 200	215SMTP09	5.6
	307SMTP05	6.3
201 - 304	307SMTP05	6.3
305 - 400	215SMTP05	5.6
60 HP MOTOR		
5 - 8	◆	
9 - 13	800SMTP25	12.0
14 - 20	608SMTP25B	8.1
	608SMTP15B	8.2
21 - 32	507SMTP25B	7.9
	507SMTP15B	7.9
33 - 44	415SMTP25B	7.1
	415SMTP15B	7.1
45 - 70	407SMTP25B●	6.4
	407SMTP15B●	6.4
71 - 80	315SMTP25●	6.4
	315SMTP15●	6.4
	315SMTP09●	9.6
81 - 89	315SMTP15●	6.4
	315SMTP09●	9.6
90 - 120	315SMTP15●	6.4
	315SMTP09●	9.6
	407SMTP05B	22.0
121 - 130	307SMTP15●	6.0
	307SMTP09●	7.0
	407SMTP05B	22.0
131 - 144	307SMTP09●	7.0
	407SMTP05B	22.0
145 - 200	307SMTP09●	7.0
	315SMTP05	14.2
201 - 215	315SMTP05	14.2
216 - 400	307SMTP05	6.1
75 HP MOTOR		
5 - 10	◆	
11 - 16	800SMTP25	12.0
17 - 26	608SMTP25B	8.1
	608SMTP15B	9.6
27 - 41	507SMTP25B	7.9
	507SMTP15B	7.9

Output RPM	Reducer Size	Minimum Sheave P.D.
75 HP MOTOR (Cont'd)		
42 - 58	415SMTP25B●	7.1
	415SMTP15B	7.1
59 - 80	407SMTP25B●	6.4
	407SMTP15B●	6.4
81 - 89	407SMTP15B●	6.4
90 - 94	407SMTP15B●	6.4
	415SMTP05B	24.3
95 - 102	407SMTP15B●	6.4
	315SMTP09●	10.1
	415SMTP05B	24.3
103 - 125	315SMTP15●	6.4
	315SMTP09●	10.1
	415SMTP05B	24.3
126 - 130	315SMTP15●	6.4
	315SMTP09●	10.1
	407SMTP05B	21.8
131 - 166	315SMTP09●	10.1
	407SMTP05B	21.8
167 - 200	307SMTP09●	6.8
	407SMTP05B	21.8
201 - 301	315SMTP05	13.9
302 - 400	307SMTP05	6.0
100 HP MOTOR		
5 - 14	◆	
15 - 22	800SMTP25	12.0
23 - 37	608SMTP25B	8.1
	608SMTP15B	14.6
38 - 61	507SMTP25B●	7.9
	507SMTP15B	8.4
62 - 80	415SMTP25B●	7.1
	415SMTP15B●	7.1
81 - 89	415SMTP15B●	7.1
90 - 130	407SMTP15B●	6.4
	415SMTP05B	29.6
131 - 143	415SMTP05B	29.6
144 - 172	315SMTP09●	9.8
	415SMTP05B	29.6
173 - 190	315SMTP09●	9.8
	407SMTP05B	21.1
191 - 200	315SMTP09●	9.8
	407SMTP05B●	21.1
201 - 302	407SMTP05B●	21.1
303 - 400	315SMTP05	13.7
125 HP MOTOR		
5 - 18	◆	
19 - 29	800SMTP25	12.0
30 - 50	608SMTP25B●	9.8
	608SMTP15B	15.0
51 - 80	507SMTP25B●	7.9
	507SMTP15B	8.5
81 - 121	415SMTP15B●	7.1
122 - 130	407SMTP15B●	6.4
139 - 199	415SMTP05B	29.3
200 - 236	◆	
237 - 400	407SMTP05B●	20.7
150 HP MOTOR		
5 - 22	◆	
23 - 30	800SMTP25	12.0
39 - 66	608SMTP25B●	8.1
	608SMTP15B	14.7

Output RPM	Reducer Size	Minimum Sheave P.D.
150 HP MOTOR (Cont'd)		
67 - 80	507SMTP25B●	7.9
	507SMTP15B	8.4
81 - 108	507SMTP15B	8.4
109 - 130	415SMTP15B●	7.1
131 - 180	◆	
181 - 340	415SMTP05B●	28.9
341 - 400	407SMTP05B●	20.3
200 HP MOTOR		
5 - 30	◆	
31 - 59	800SMTP25	12.0
60 - 80	608SMTP25B●	8.1
	608SMTP15B●	13.2
81 - 99	608SMTP15B●	13.2
100 - 130	507SMTP15B●	8.5
131 - 273	◆	
274 - 400	415SMTP05B●	28.3
250 HP MOTOR		
5 - 38	◆	
39 - 80	800SMTP25●	12.0
81 - 84	◆	
85 - 130	608SMTP15B●	12.0
131 - 378	◆	
379 - 400	415SMTP05B▲	27.9
300 HP MOTOR		
5 - 46	◆	
47 - 80	800SMTP25▲	12.0
81 - 112	◆	
113 - 130	608SMTP15B▲	11.1
131 - 400	◆	
350 HP MOTOR		
5 - 55	◆	
56 - 80	800SMTP25▲	12.0
81 - 400	◆	
400 HP MOTOR		
5 - 63	◆	
64 - 80	800SMTP25▲	12.0
81 - 400	◆	
450 HP MOTOR		
5 - 72	◆	
73 - 80	800SMTP25▲	12.0
81 - 400	◆	
500 HP MOTOR		
5 - 400	◆	

Notes:

- Requires fan kit.
- ▲ Requires pump and cooler kit.
- ◆ Contact Application Engineering (1 800 626 2093) for the selection of an enclosed gear drive.



SMTP/SMFP Selection Chart



Class III Service (2.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
1/4 HP MOTOR		
5 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.4
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.4
81 - 89	107SMTP15	2.3
	107SMTP09	2.4
90 - 130	107SMTP15	2.3
	107SMTP09	2.4
	107SMTP05	2.3
131 - 200	107SMTP09	2.4
	107SMTP05	2.3
201 - 400	107SMTP05	2.3
1/3 HP MOTOR		
5 - 6	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
7 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
81 - 89	107SMTP15	2.3
	107SMTP09	2.3
90 - 130	107SMTP15	2.3
	107SMTP09	2.3
	107SMTP05	2.3
131 - 200	107SMTP09	2.3
	107SMTP05	2.3
201 - 400	107SMTP05	2.3
1/2 HP MOTOR		
5 - 6	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
7 - 9	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
10 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.4
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.4
81 - 89	107SMTP15	2.3
	107SMTP09	2.4
90 - 130	107SMTP15	2.3
	107SMTP09	2.4
	107SMTP05	2.3
131 - 200	107SMTP09	2.4
	107SMTP05	2.3
201 - 400	107SMTP05	2.3

Output RPM	Reducer Size	Minimum Sheave P.D.
3/4 HP MOTOR		
5	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
6 - 10	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
11 - 14	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
15 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.4
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.4
81 - 89	107SMTP15	2.3
	107SMTP09	2.4
90 - 130	107SMTP15	2.3
	107SMTP09	2.4
	107SMTP05	2.3
131 - 200	107SMTP09	2.4
	107SMTP05	2.3
201 - 400	107SMTP05	2.3
1 HP MOTOR		
5 - 8	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
9 - 14	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
15 - 20	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
21 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
81 - 89	107SMTP15	2.3
	107SMTP09	2.3
90 - 130	107SMTP15	2.3
	107SMTP09	2.3
	107SMTP05	2.3
131 - 200	107SMTP09	2.3
	107SMTP05	2.3
201 - 400	107SMTP05	2.3

Output RPM	Reducer Size	Minimum Sheave P.D.
1 1/2 HP MOTOR		
5 - 7	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
8 - 12	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
13 - 22	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
23 - 31	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
32 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
81 - 89	107SMTP15	2.3
	107SMTP09	2.3
90 - 130	107SMTP15	2.3
	107SMTP09	2.3
	107SMTP05	2.3
131 - 200	107SMTP09	2.3
	107SMTP05	2.3
201 - 400	107SMTP05	2.3
2 HP MOTOR		
5 - 6	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
7 - 10	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
11 - 17	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
18 - 30	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
31 - 42	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
43 - 50	107SMTP35	2.3
	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
51 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3

Class III Service (2.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
2 HP MOTOR (Cont'd)		
81 - 89	107SMTP15	2.3
	107SMTP09	2.3
90 - 130	107SMTP15	2.3
	107SMTP09	2.3
	107SMTP05	2.3
131 - 200	107SMTP09	2.3
	107SMTP05	2.3
201 - 400	107SMTP05	2.3
3 HP MOTOR		
5	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
6 - 9	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
10 - 16	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
17 - 26	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
27 - 46	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
47 - 50	115SMTP35	3.4
	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
51 - 65	115SMTP25	3.4
	115SMTP15	3.4
	115SMTP09	3.4
66 - 80	107SMTP25	2.3
	107SMTP15	2.3
	107SMTP09	2.3
81 - 89	107SMTP15	2.3
	107SMTP09	2.3
90 - 115	107SMTP15	2.3
	107SMTP09	2.3
	115SMTP05	4.9
116 - 130	107SMTP15	2.3
	107SMTP09	2.3
	107SMTP05	2.3
131 - 200	107SMTP09	2.3
	107SMTP05	2.3
201 - 400	107SMTP05	2.3
5 HP MOTOR		
5 - 7	407SMTP25B	6.4
	407SMTP15B	6.4
8 - 9	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4

Output RPM	Reducer Size	Minimum Sheave P.D.
5 HP MOTOR (Cont'd)		
10 - 16	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
17 - 27	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
28 - 44	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
45 - 50	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
51 - 80	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
81 - 89	115SMTP15	3.4
	115SMTP09	3.4
90 - 113	115SMTP15	3.4
	115SMTP09	3.4
	115SMTP05	4.9
114 - 130	107SMTP15	2.3
	107SMTP09	2.3
	115SMTP05	4.9
131 - 200	107SMTP09	2.3
	115SMTP05	4.9
201 - 244	115SMTP05	4.9
245 - 400	107SMTP05	2.3
7 1/2 HP MOTOR		
5 - 6	415SMTP25B	7.1
	415SMTP15B	7.1
7 - 11	407SMTP25B	6.4
	407SMTP15B	6.4
12 - 14	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
15 - 25	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
26 - 42	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
43 - 50	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
51 - 80	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
81 - 89	203SMTP15	3.8
	203SMTP09	3.8

Output RPM	Reducer Size	Minimum Sheave P.D.
7 1/2 HP MOTOR (Cont'd)		
90 - 120	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP05	3.8
121 - 130	115SMTP15	3.4
	115SMTP09	3.4
	203SMTP05	3.8
131 - 161	115SMTP09	3.4
	203SMTP05	3.8
162 - 194	115SMTP09	3.4
	115SMTP05	4.8
195 - 200	107SMTP09	2.3
	115SMTP05	4.8
201 - 400	115SMTP05	4.8
10 HP MOTOR		
5 - 6	507SMTP25B	7.9
	507SMTP15B	7.9
7 - 9	415SMTP25B	7.1
	415SMTP15B	7.1
10 - 14	407SMTP25B	6.4
	407SMTP15B	6.4
15 - 19	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
20 - 34	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
35 - 50	215SMTP35	5.6
	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
51 - 61	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
61 - 80	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
81 - 89	207SMTP15	4.3
	207SMTP09	4.3
90 - 119	207SMTP15	4.3
	207SMTP09	4.3
	207SMTP05	4.9
120 - 130	203SMTP15	3.8
	203SMTP09	3.8
131 - 168	203SMTP09	3.8
	203SMTP05	3.8
169 - 200	115SMTP09	3.4
	203SMTP05	3.8
201 - 244	203SMTP05	3.8
245 - 400	115SMTP05	4.7
15 HP MOTOR		
5 - 6	608SMTP25B	8.1
	608SMTP15B	8.1
7 - 10	507SMTP25B	7.9
	507SMTP15B	7.9
11 - 15	415SMTP25B	7.1
	415SMTP15B	7.1

Class III Service (2.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
15 HP MOTOR (Cont'd)		
16 - 23	407SMT25B	6.4
	407SMT15B	6.4
24 - 30	315SMT35	6.4
	315SMT25	6.4
	315SMT15	6.4
	315SMT09	6.4
31 - 50	307SMT35	6.0
	307SMT25	6.0
	307SMT15	6.0
	307SMT09	6.0
51 - 80	215SMT25	5.6
	215SMT15	5.6
	215SMT09	5.6
81 - 89	215SMT15	5.6
	215SMT09	5.6
90 - 105	215SMT15	5.6
	215SMT09	5.6
	215SMT05	5.6
106 - 130	207SMT15	4.3
	207SMT09	4.3
	215SMT05	5.6
131 - 162	207SMT09	4.3
	215SMT05	5.6
163 - 200	207SMT09	4.3
	207SMT05	4.8
201 - 215	207SMT05	4.8
216 - 400	203SMT05	3.8
20 HP MOTOR		
5	800SMT25	12.0
6 - 9	608SMT25B	8.1
	608SMT15B	8.1
10 - 14	507SMT25B	7.9
	507SMT15B	7.9
15 - 29	415SMT25B	7.1
	415SMT15B	7.1
21 - 31	407SMT25B	6.4
	407SMT15B	6.4
32 - 43	315SMT35	6.4
	315SMT25	6.4
	315SMT15	6.4
	315SMT09	6.4
43 - 50	307SMT35	6.0
	307SMT25	6.0
	307SMT15	6.0
	307SMT09	6.0
51 - 80	307SMT25	6.0
	307SMT15	6.0
	307SMT09	6.0
81 - 89	215SMT15	5.6
	215SMT09	5.6
90 - 130	215SMT15	5.6
	215SMT09	5.6
	307SMT05	6.0
131 - 156	215SMT09	5.6
	215SMT05	5.6
157 - 200	207SMT09	4.3
	215SMT05	5.6
201 - 246	215SMT05	5.6

Output RPM	Reducer Size	Minimum Sheave P.D.
20 HP MOTOR (Cont'd)		
247 - 327	207SMT05	4.6
328 - 400	203SMT05	3.8
25 HP MOTOR		
5 - 7	800SMT25	12.0
8 - 11	608SMT25B	8.1
	608SMT15B	8.1
12 - 18	507SMT25B	7.9
	507SMT15B	7.9
19 - 25	415SMT25B	7.1
	415SMT15B	7.1
26 - 39	407SMT25B	6.4
	407SMT15B	6.4
40 - 50	315SMT35	6.4
	315SMT25	6.4
	315SMT15	6.4
	315SMT09	6.4
51 - 59	315SMT25	6.4
	315SMT15	6.4
	315SMT09	6.4
60 - 80	307SMT25	6.0
	307SMT15	6.0
	307SMT09	6.0
81 - 89	307SMT15	6.0
	307SMT09	6.0
90 - 99	307SMT15	6.0
	307SMT09	6.0
	315SMT05	10.1
100 - 110	307SMT15	6.0
	307SMT09	6.0
	307SMT05	6.0
111 - 130	215SMT15	5.6
	215SMT09	5.6
	307SMT05	6.0
131 - 182	215SMT09	5.6
	307SMT05	6.0
183 - 200	215SMT09	5.6
	215SMT05	5.6
201 - 340	215SMT05	5.6
341 - 400	207SMT05	4.6
30 HP MOTOR		
6 - 9	800SMT25	12.0
10 - 14	608SMT25B	8.1
	608SMT15B	8.1
15 - 22	507SMT25B	7.9
	507SMT15B	7.9
23 - 31	415SMT25B	7.1
	415SMT15B	7.1
32 - 48	407SMT25B	6.4
	407SMT15B	6.4
49 - 50	315SMT35	6.4
	315SMT25	6.4
	315SMT15	6.4
	315SMT09	6.4
51 - 80	315SMT25	6.4
	315SMT15	6.4
	315SMT09	6.4
81 - 89	307SMT15	6.0
	307SMT09	6.0

Output RPM	Reducer Size	Minimum Sheave P.D.
30 HP MOTOR (Cont'd)		
90 - 130	307SMT15	6.0
	307SMT09	6.0
	315SMT05	10.1
131 - 200	215SMT09	5.6
	307SMT05	6.0
201 - 240	307SMT05	6.0
241 - 400	215SMT05	5.6
40 HP MOTOR		
5 - 7	◆	
8 - 12	800SMT25	12.0
13 - 19	608SMT25B	8.1
	608SMT15B	8.1
20 - 30	507SMT25B	7.9
	507SMT15B	7.9
31 - 42	415SMT25B	7.1
	415SMT15B	7.1
43 - 69	407SMT25B	6.4
	407SMT15B	6.4
70 - 80	315SMT25	6.4
	315SMT15	6.4
	315SMT09	6.4
81 - 89	315SMT15	6.4
	315SMT09	6.4
90 - 113	315SMT15	6.4
	315SMT09	6.4
	407SMT05B	14.9
114 - 130	307SMT15	6.0
	307SMT09	6.0
	407SMT05B	14.9
131 - 200	307SMT09	6.0
	315SMT05	9.9
201 - 372	307SMT05	6.0
373 - 400	215SMT05	5.6
50 HP MOTOR		
5 - 9	◆	
10 - 15	800SMT25	12.0
16 - 24	608SMT25B	8.1
	608SMT15B	8.1
25 - 38	507SMT25B	7.9
	507SMT15B	7.9
39 - 54	415SMT25B	7.1
	415SMT15B	7.1
55 - 80	407SMT25B●	6.4
	407SMT15B	6.4
81 - 89	407SMT15B	6.4
90 - 95	407SMT15B	6.4
	315SMT09	7.1
	415SMT05B	19.5
96 - 106	315SMT15	6.4
	315SMT09	7.2
	415SMT05B	19.5
107 - 130	315SMT15	6.4
	315SMT09	7.2
	407SMT05B	15.2
131 - 155	315SMT09	7.2
	407SMT05B	15.2
156 - 186	307SMT09●	6.0
	407SMT05B	15.2

Notes:

- Requires fan kit.
- ▲ Requires pump and cooler kit.
- ◆ Contact Application Engineering (1 800 626 2093) for the selection of an enclosed gear drive.

Class III Service (2.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
50 HP MOTOR (Cont'd)		
187 - 200	307SMTP09●	6.0
	315SMTP05	9.8
201 - 280	315SMTP05	9.8
281 - 400	307SMTP05	6.0
60 HP MOTOR		
5 - 12	◆	
13 - 19	800SMTP25	12.0
20 - 30	608SMTP25B	8.1
	608SMTP15B	8.1
31 - 48	507SMTP25B	7.9
	507SMTP15B	7.9
49 - 70	415SMTP25B	7.1
	415SMTP15B	7.1
71 - 80	407SMTP25B●	6.4
	407SMTP15B●	6.4
81 - 89	407SMTP15B●	6.4
90 - 114	407SMTP15B●	6.4
	415SMTP05B	19.5
115 - 123	407SMTP15B●	6.4
	315SMTP09●	7.0
	415SMTP05B	19.5
124 - 130	315SMTP15●	6.4
	315SMTP09●	7.0
	415SMTP05B	19.5
131 - 152	315SMTP09●	7.0
	407SMTP05B	15.0
153 - 200	315SMTP09●	7.0
	407SMTP05B	15.0
201 - 242	407SMTP05B	15.0
243 - 370	315SMTP05	9.7
371 - 400	307SMTP05	6.0
75 HP MOTOR		
5 - 15	◆	
16 - 24	800SMTP25	12.0
25 - 40	608SMTP25B	8.1
	608SMTP15B	11.7
41 - 67	507SMTP25B	7.9
	507SMTP15B	7.9
68 - 80	415SMTP25B●	7.1
	415SMTP15B	7.1
81 - 89	415SMTP15B	7.1
90 - 97	415SMTP15B	7.1
	415SMTP05B	20.7
98-130	407SMTP15B●	6.4
131 - 159	415SMTP05B	20.7
160 - 190	315SMTP09●	6.8
191 - 200	315SMTP09●	6.8
	407SMTP05B	14.7
201 - 334	407SMTP05B	14.7
335 - 400	315SMTP05	9.5
100 HP MOTOR		
5 - 20	◆	
21 - 35	800SMTP25	12.0
36 - 61	608SMTP25B	8.1
	608SMTP15B	10.5
62 - 80	507SMTP25B●	7.9
	507SMTP15B	7.9
81 - 101	507SMTP15B	7.9
102 - 130	415SMTP15B●	7.1

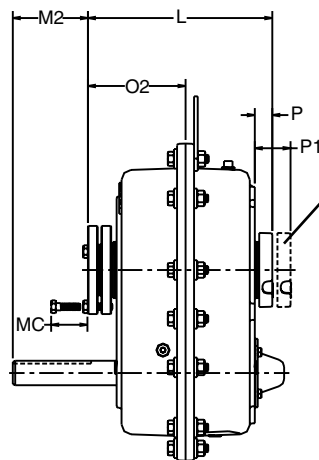
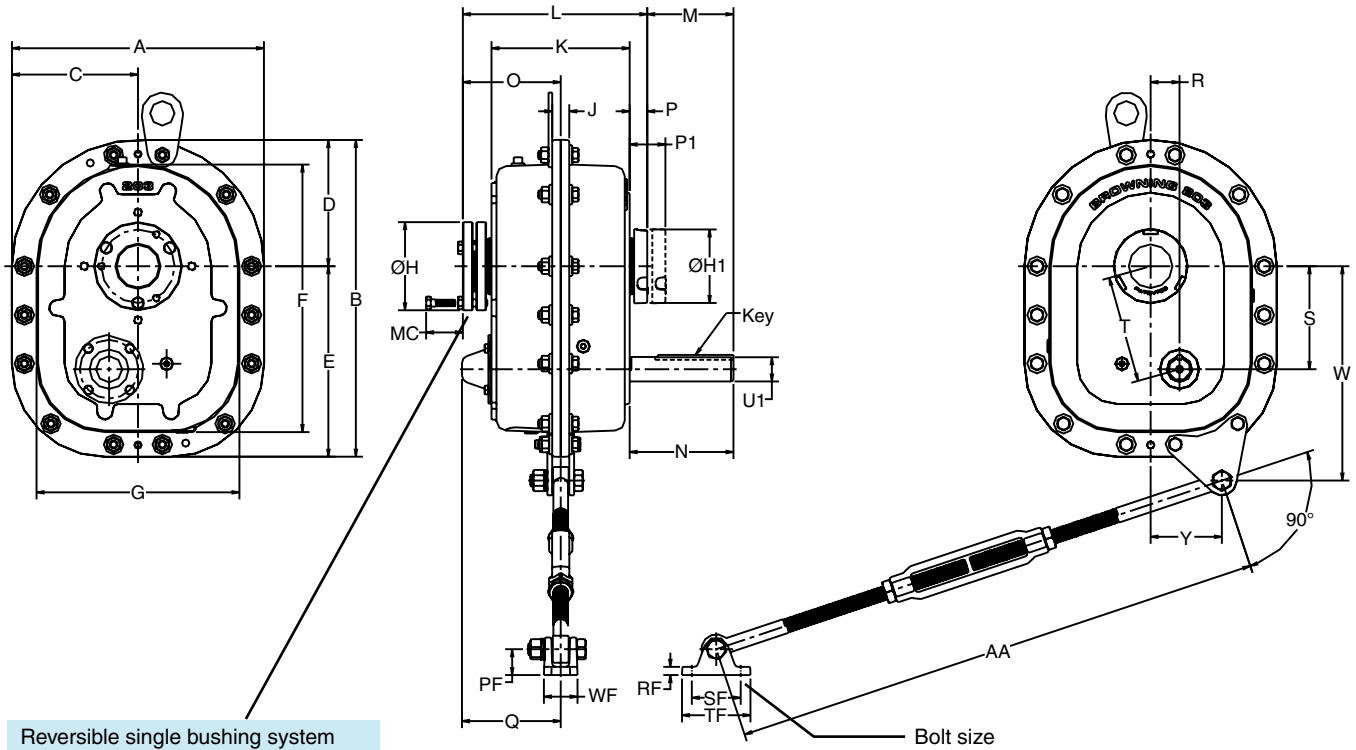
Output RPM	Reducer Size	Minimum Sheave P.D.
100 HP MOTOR (Cont'd)		
131 - 168	◆	
169 - 286	415SMTP05B	20.3
287 - 400	407SMTP05B●	14.2
125 HP MOTOR		
5 - 26	◆	
27 - 50	800SMTP25●	12.0
51 - 80	608SMTP25B●	8.1
	608SMTP15B	9.6
81 - 84	608SMTP15B	9.6
85 - 130	507SMTP15B	7.9
131 - 232	◆	
233 - 400	415SMTP05B●	20.1
150 HP MOTOR		
5 - 32	◆	
33 - 66	800SMTP25●	12.0
67 - 80	608SMTP25B●	8.1
	608SMTP15B	9.0
81 - 110	608SMTP15B	9.0
111 - 130	507SMTP15B	7.9
131 - 302	◆	
303 - 400	415SMTP05B●	19.7
200 HP MOTOR		
5 - 44	◆	
45 - 80	800SMTP25●	12.0
81 - 104	◆	
105 - 130	608SMTP15B●	8.1
131 - 400	◆	
250 HP MOTOR		
5 - 56	◆	
57 - 80	800SMTP25●	12.0
81 - 400	◆	
300 HP MOTOR		
5 - 68	◆	
69 - 80	800SMTP25▲	12.0
81 - 400	◆	
350 HP MOTOR		
5 - 400	◆	

Notes:

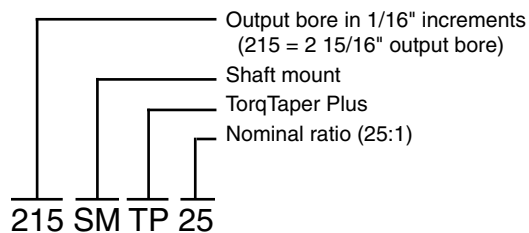
- Requires fan kit.
- ▲ Requires pump and cooler kit.
- ◆ Contact Application Engineering (1 800 626 2093) for the selection of an enclosed gear drive.



SMTT TorqTaper Plus Unit Sizes 107-315



Part Number Explanation





Shaft Mount Reducers



SMTP TorqTaper Plus Unit Sizes 107-315

PART NO. ★	DIMENSIONS IN INCHES									
	A	B	C	D	E	F	G	H	H1	J
107SMTP	9.76	12.07	4.88	4.88	7.19	10.07	7.75	3.25	3	0.63
115SMTP	11	14.08	5.5	5.5	8.58	11.78	8.69	4.13	3.5	0.75
203SMTP	12.88	16.16	6.44	6.44	9.72	13.66	10.38	4.5	3.75	0.87
207SMTP	14.5	18.47	7.25	7.25	11.22	15.73	11.76	4.88	4.25	1.01
215SMTP	16.25	20.88	8.13	8.13	12.76	18.07	13.44	5.31	4.75	1.07
307SMTP	19.04	24.37	9.52	9.52	14.85	21	15.67	6.44	5.69	1.25
315SMTP	19.9	26.35	9.95	9.95	16.4	23.02	16.57	7.13	6.7	1.25

PART NO. ★	DIMENSIONS IN INCHES									
	K	L	M	M2	MC	N	O	O2	P	P1
107SMTP	5.52	7.89	3.18	2.61	1.75	4.08	4.25	4.21	0.9	1.84
115SMTP	5.99	8.36	3.34	2.77	1.88	4.24	4.48	4.45	0.9	1.83
203SMTP	7.07	9.43	4.42	3.84	1.88	5.31	5.01	4.99	0.89	1.83
207SMTP	7.39	9.75	4.23	3.65	1.88	5.12	5.14	5.19	0.89	1.86
215SMTP	8.24	10.85	4.85	4.28	1.88	5.87	5.69	5.74	1.02	1.96
307SMTP	9.27	12.57	6.09	5.47	2.25	7.45	6.58	6.61	1.36	2.75
315SMTP	10.51	14.5	6.59	5.96	2.75	8.32	7.51	7.61	1.73	3.25

PART NO. ★	DIMENSIONS IN INCHES									
	PF	Q	R	RF	S	SF	T	TF	U1	W
107SMTP	1.14	4.24	1.18	0.36	3.77	2.50	3.95	3.38	0.75	7.88
115SMTP	1.14	4.51	1.35	0.36	4.36	2.50	4.56	3.38	1.12	9.14
203SMTP	1.32	5.04	1.48	0.42	5.26	2.50	5.46	3.50	1.25	10.94
207SMTP	1.51	5.57	1.63	0.48	6.08	3.00	6.29	4.25	1.44	12.68
215SMTP	1.51	6.24	2.12	0.48	7.01	3.00	7.32	4.25	1.87	14.19
307SMTP	1.81	6.79	2.25	0.61	7.78	4.00	8.10	5.38	2.00	17.00
315SMTP	2.22	8.05	2.63	0.72	8.53	4.75	8.93	6.50	2.13	18.12

PART NO. ★	DIMENSIONS IN INCHES						MAX. OUTPUT BORE	WT. LBS
	WF	Y	AA		BOLT SIZE	KEY		
			MIN.	MAX.				
107SMTP	1.44	2.73	24.00	30.00	3/8	.188 x .188 x 2.88	1 7/16	53
115SMTP	1.44	3.12	24.00	30.00	3/8	.250 x .250 x 2.75	1 15/16	75
203SMTP	1.72	3.64	24.00	30.00	3/8	.250 x .250 x 3.88	2 3/16	112
207SMTP	2.19	4.16	27.00	33.00	7/16	.375 x .375 x 3.75	2 7/16	155
215SMTP	2.19	4.65	27.00	33.00	7/16	.500 x .500 x 3.75	2 15/16	226
307SMTP	2.78	5.58	29.00	35.00	1/2	.500 x .500 x 6.50	3 7/16	367
315SMTP	3.63	6.2	29.50	35.50	5/8	.500 x .500 x 7.50	3 15/16	480

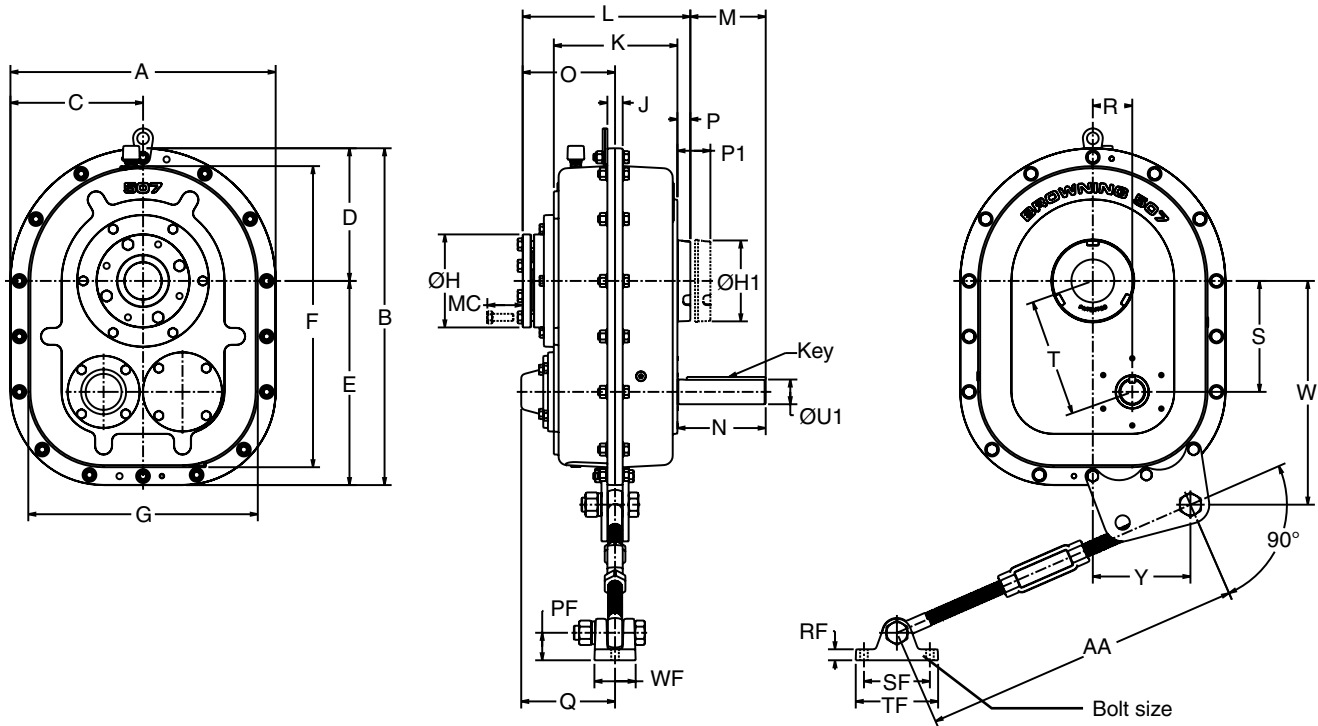
★ Complete part number by adding ratio symbol, for example, "107SMTP05".

Note - "05" is symbol for 5:1 nominal ratio: see page 9 for exact ratios and ratio symbols.

Dimension "MC" is minimum clearance for bushing removal.

Order bushings from pages 64 thru 66 for shaft size required.

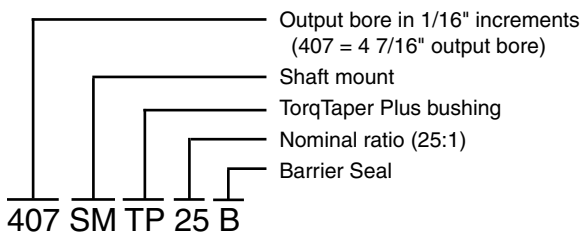
SMTP TorqTaper Plus Unit Sizes 407 - 800



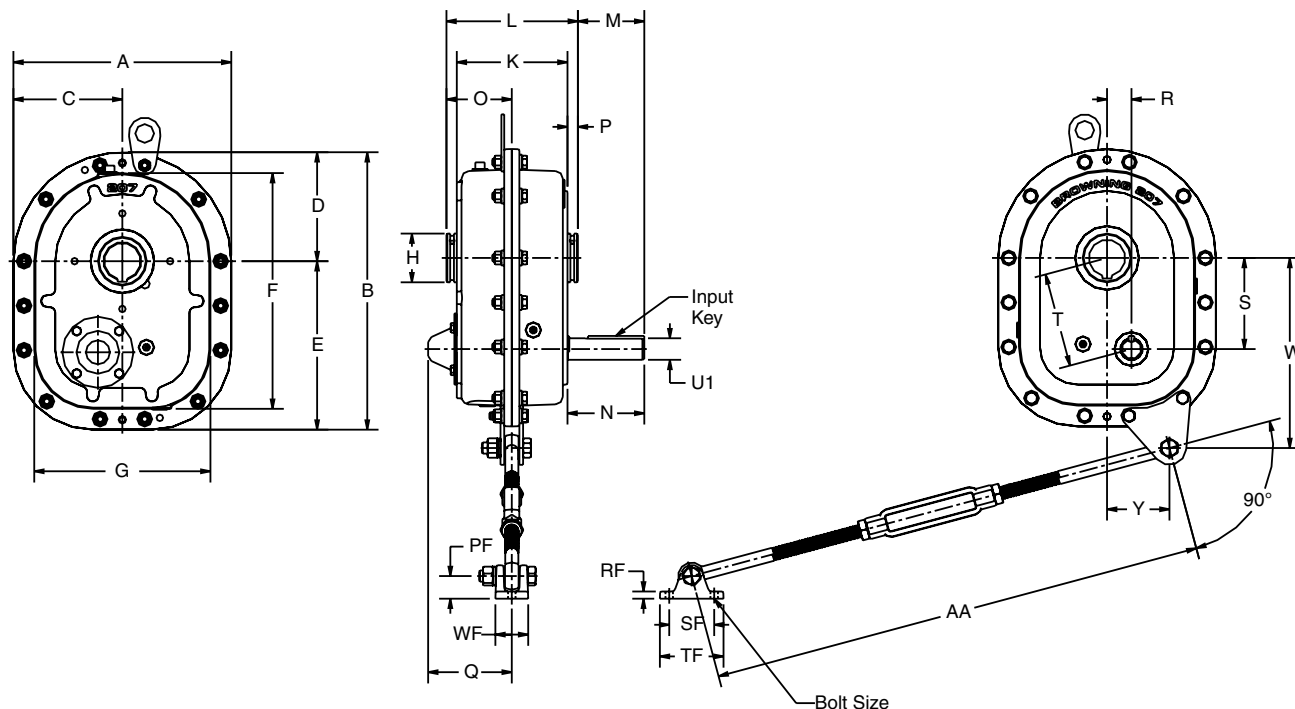
Part No.★	Dimensions in Inches																				
	A	B	C	D	E	F	G	H	H1	J	K	L	M	N	O	P	P1	PF	Q	R	RF
407SMTP-B	21.69	27.80	10.85	10.85	16.96	24.48	18.37	7.69	7.00	1.38	10.13	13.88	5.50	6.70	7.55	1.20	3.00	2.22	8.25	3.13	0.72
415SMTP-B	25.04	31.80	12.52	12.52	19.28	28.01	21.25	9.44	7.88	1.63	12.63	16.78	8.00	9.23	9.18	1.23	3.25	2.92	9.43	3.63	1.17
507SMTP-B	28.16	35.75	14.08	14.08	21.67	31.96	24.37	9.88	8.50	1.63	13.12	17.80	8.00	9.37	9.81	1.37	3.50	2.92	9.96	4.19	1.17
608SMTP-B	30.23	39.58	15.11	15.11	24.47	35.78	26.43	11.56	10.94	1.88	16.74	21.96	8.00	9.51	12.09	1.51	3.75	3.52	12.50	4.25	1.36
800SMTP	36.56	46.93	18.28	18.28	28.65	41.22	30.84	14.50	12.75	2.38	18.78	24.40	10.81	12.75	12.99	1.94	4.75	4.25	13.57	4.88	1.63

Part No.★	Dimensions in Inches								AA		Bolt Size	Key	Max.	MC	Wt. Lbs.
	S	SF	T	TF	U1	W	WF	Y	Min.	Max.			Output Bore		
407SMTP-B	9.24	4.75	9.75	6.50	2.12	19.72	3.63	3.56	29.50	35.50	5/8	1/2 Sq. x 6.00" Key	4 7/16	2.75	609
415SMTP-B	10.39	7.00	11.00	8.75	2.37	21.79	4.38	7.16	28.00	34.00	3/4	5/8 Sq. x 8.38" Key	4 15/16	3.25	957
507SMTP-B	11.78	7.00	12.50	8.75	2.62	23.75	4.38	10.36	28.00	34.00	3/4	5/8 Sq. x 8.38" Key	57/16	3.75	1217
608SMTP-B	13.60	7.00	14.25	9.25	2.69	26.05	4.96	11.71	28.00	34.00	3/4	5/8 Sq. x 8.75" Key	6 1/2	4.25	1913
800SMTP	15.24	9.00	16.00	11.88	2.94	31.36	5.75	10.62	31.00	37.00	7/8	3/4 Sq. x 12.00" Key	8	4.50	2894

Part Number Explanation

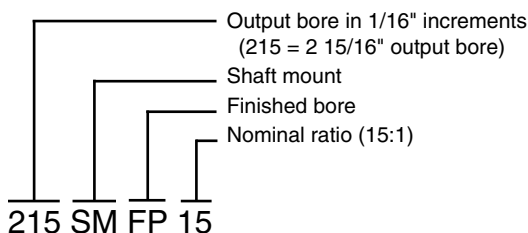


SMFP Finished Bore Sizes 107-315



Note: SMFP units are made-to-order.
Contact Emerson for delivery.

Part Number Explanation



PART NO. ★	DIMENSIONS IN INCHES														OUTPUT BORE*	
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	DIA.	KEYWAY
107SMFP	9.76	12.07	4.88	4.88	7.19	10.07	7.75	2.00	0.63	5.52	6.52	3.58	4.08	3.26	1.4375	.375 x .125
115SMFP	11.00	14.08	5.50	5.50	8.58	11.78	8.69	2.63	0.75	5.99	7.13	3.67	4.24	3.57	1.9375	.500 x .125
203SMFP	12.88	16.16	6.44	6.44	9.72	13.66	10.38	2.88	0.87	7.07	8.45	4.62	5.31	4.23	2.1875	.500 x .187
207SMFP	14.50	18.47	7.25	7.25	11.22	15.73	11.76	3.25	1.01	7.39	8.77	4.43	5.12	4.39	2.4375	.625 x .187
215SMFP	16.25	20.88	8.13	8.13	12.76	18.07	13.44	3.88	1.07	8.24	10.25	4.86	5.87	5.13	2.9375	.750 x .250
307SMFP	19.04	24.37	9.52	9.52	14.85	21.00	15.67	5.00	1.25	9.27	11.70	6.24	7.45	5.85	3.4375	.875 x .250
315SMFP	19.90	26.35	9.95	9.95	16.40	23.02	16.57	5.38	1.25	10.51	13.00	7.08	8.32	6.50	3.9375	1.000 x .250

PART NO. ★	DIMENSIONS IN INCHES																	WT. LBS.
	P	PF	a	R	RF	S	SF	T	TF	U1	W	WF	Y	BOLT SIZE	AA		INPUT KEY	
															MIN.	MAX.		
107SMFP	0.50	1.14	4.24	1.18	0.36	3.77	2.50	3.95	3.38	0.75	7.88	1.44	2.73	3/8	24	30	.188 x .188 x 2.88	53
115SMFP	0.57	1.14	4.51	1.35	0.36	4.36	2.50	4.56	3.38	1.13	9.14	1.44	3.12	3/8	24	30	.250 x .250 x 2.75	75
203SMFP	0.69	1.32	5.04	1.48	0.42	5.26	2.50	5.46	3.50	1.25	10.94	1.72	3.64	3/8	24	30	.250 x .250 x 3.88	112
207SMFP	0.69	1.51	5.57	1.63	0.48	6.08	3.00	6.29	4.25	1.44	12.68	2.19	4.16	7/16	27	33	.375 x .375 x 3.75	155
215SMFP	1.01	1.51	6.24	2.12	0.48	7.01	3.00	7.32	4.25	1.88	14.19	2.19	4.65	7/16	27	33	.500 x .500 x 3.75	226
307SMFP	1.22	1.81	6.79	2.25	0.61	7.78	4.00	8.10	5.38	2.00	17.00	2.78	5.58	1/2	29	35	.500 x .500 x 6.50	365
315SMFP	1.25	2.22	8.05	2.83	0.72	8.53	4.75	8.93	6.50	2.13	18.12	3.83	6.20	5/8	29.5	355	.500 x .500 x 7.50	477

★ Complete part number by adding ratio symbol, for example, "107SMFP05".

Note - "05" is symbol for 5:1 nominal ratio: see page 9 for exact ratios and ratio symbols.

* If smaller shaft than the output bore is used, order bushing from page Accessories Section.



Application Inspired... Hydraulically Driven



Browning Hydraulic TorqTaper Plus Shaft Mount Reducers

With over 25 years in developing innovative solutions for industries, Emerson engineers designed the newest member of the TorqTaper Plus family. The hydraulic TorqTaper Plus is appropriate for applications where fluid power is required.

- For applications where electric motors are not available, such as portable equipment
- Compatible with many hydraulic motors currently used in similar applications – standard SAE mounting patterns
- Can be configured with screw conveyor components or as a shaft mounted reducer
- Patented mounting system, barrier seal system and increased ratings
- Replaces all popular hydraulic shaft mounted reducers
- Available with involute or straight sided input splines

Example No. 1

Units 107 - 315 Hydraulic Shaft Mounts

A hydraulic shaft mount reducer is required for a portable aggregate conveyor which can be loaded and operated 16 to 24 hours per day at 30 rpm.

The conveyor requires 3 hp. The reducer will be mounted on the conveyor drive pulley shaft, which is 2 3/16" diameter.

1. Determine the Load Classification

From the *AGMA Application Classification Numbers* section, note the AGMA Class Number is II for a uniformly loaded or fed conveyor operating over 10 hours per day.

2. Determine the Speed Reducer Required

From the *Hydraulic Reducer Selection Chart* section, there are four tables for selecting hydraulic shaft mounts for Class II Service. Locate the 30 rpm row, if available, in each table. Read across the row to find a column with a rating of 3 hp or greater. Read up the column to determine the basic reducer size that corresponds to the design hp. For this application, a 203HMTP15 13T SAE-B 2, 203HMTP25 9T SAE-A 2, 203HMTP05 6B SAE-A 2 or a 203HMTP25 6B SAE-A 2 may be used. Select the reducer based upon hydraulic motor characteristics, such as spline dimensions and flow rates.

(Note: Hydraulic motors are not included with the reducer.)

For this example, select 203HMTP15 13T SAE-B 2.

A 203TBP203 bushing is required to mount any of the three reducers to the 2 3/16" driven shaft.

A 203TAP-H torque arm kit is required to restrain the gearbox in operation.

3. List Components

- 1, 203HMTP15 13T SAE-B 2 reducer
- 1, 203TBP203 bushing
- 1, 203TAP-H torque arm kit
- 1, Hydraulic motor (separate)

Example No. 2

Units 107 - 315 Hydraulic Screw Conveyor

A hydraulic shaft mount reducer is required to convey dry cement powder. The conveyor will be uniformly fed and operated 12 to 16 hours per day. The screw is 14" diameter and has a 2 7/16" bore with two holes. The conveyor requires 4 1/2 hp and will operate at 60 rpm. The application requires a waste pack.

1. Determine the Load Classification

From the *AGMA Application Classification Numbers* section, note the AGMA Class Number is II for a uniformly loaded or fed screw conveyor, operating over 10 hours per day.

2. Determine the Speed Reducer Required

From the *Hydraulic Reducer Selection Chart* section, there are four tables for selecting hydraulic shaft mounts for Class II Service. Locate the 60 rpm row, if available, in each table. Read across the row to find a column with a rating of 4 1/2 hp or greater. Read up the column to determine the basic reducer size that corresponds to the design hp. For this application, a 115HMT15 9T SAE-A 2, 115HMT25 9T SAE-A 2, 203HMT25 6B SAE-A 2 or a 203HMT05 6B SAE-A 2 may be used. Generally, the smaller case size is more economical, but the total system should be considered. Select the reducer based upon hydraulic motor characteristics such as spline dimensions and flow rates. (Note: Hydraulic motors are not included with the reducer.) For this example, select a 115HMT15 9T SAE-A 2.

3. Establish Sealing Required for Screw Conveyor

The waste pack cartridge is well suited for dry, abrasive materials such as cement powder. Specify the optional waste pack cartridge for the 115 shaft mount selected. From the *Accessories* section, select part 115-203WPP.

4. Select the Screw Conveyor Adapter and Screw Conveyor Shaft

Using the basic reducer size, required drive shaft and screw diameter for the selection; refer to *Screw Conveyor Drives* in the *Accessories* section. Note the specification was for a 2 7/16" drive shaft with a two hole arrangement for the 14" diameter screw. From the table select the 115SCA-P and the 115DSP207.

5. Select the Trough End

From the *Screw Conveyor Trough Ends Sizes 107-407* table, select the SCTE14 X 2 7/16 trough end.

6. List of Components:

- 1, 115HMT15 9T SAE-A 2 reducer
- 1, 115SCA-P screw conveyor adapter
- 1, 115DSP207 screw conveyor drive shaft kit
- 1, 115-203WPP waste pack cartridge
- 1, SCTE14X2 7/16 trough end
- 1, Hydraulic motor (separate)

HMT Exact Ratios

Reducer Size	Ratio Symbols		
	05	15	25
107	5.0588	14.8276	24.7250
115	4.7000	14.7759	24.8558
203	5.1053	14.9231	24.7409
207	5.1579	14.7870	24.7094
215	5.1667	14.8187	24.8502
307	5.1111	14.9704	24.7692
315	4.8824	14.5744	24.4118

Classification Numbers

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
AGITATORS (Mixers)			
Pure Liquids	I	I	II
Liquids and Solids	I	II	II
Liquids - Variable Density	I	II	II
BLOWERS			
Centrifugal & Vane	I	I	II
Lobe	I	II	II
Vane	I	II	II
BREWING AND DISTILLING			
Bottling Machinery	I	I	II
Brew Kettles - Continuous Duty	II	II	II
Cookers - Continuous Duty	II	II	II
Mash Tubs - Continuous Duty	II	II	II
Scale Hopper - Frequent Starts	II	II	II
CAN FILLING MACHINES	I	I	II
CAR DUMPERS	II	III	III
CAR PULLERS	I	II	II
CLARIFIERS	I	I	II
CLASSIFIERS	I	II	II
CLAY WORKING MACHINERY			
Brick Presses	II	III	III
Brique Machine	II	III	III
Pug Mills	I	II	II
COMPACTORS	◆	◆	◆
COMPRESSORS			
Centrifugal	I	I	II
Lobe	I	II	II
Reciprocating, Multi-Cylinder	II	II	III
Reciprocating, Single-Cylinder	III	III	III
CONVEYORS - GENERAL PURPOSE			
Includes Apron, Assembly, Belt, Bucket			
Chain, Flight, Oven, and Screw			
Uniformly Loaded or Fed	I	I	II
Heavy Duty - Not Uniformly Fed	I	II	II
Severe Duty - Reciprocating or Shaker	II	III	III
CRANES			
Dry Dock			
Main Hoist	◆	◆	◆
Auxiliary Hoist	◆	◆	◆
Boom Hoist	◆	◆	◆
Slewing Drive	◆	◆	◆
Traction Drive	◆	◆	◆
Container			
Main Hoist	◆	◆	◆
Boom Hoist	◆	◆	◆
Trolley Drive			
Gantry Drive	◆	◆	◆
Traction Drive	◆	◆	◆
Mill Duty			
Main Hoist	◆	◆	◆
Auxiliary	◆	◆	◆
Bridge Travel	◆	◆	◆
Trolley Travel	◆	◆	◆
Industrial Duty			
Main	◆	◆	◆
Auxiliary	◆	◆	◆
Bridge Travel	◆	◆	◆
Trolley Travel	◆	◆	◆
CRUSHERS			
Stone or Ore	III	III	III
DREDGES			
Cable Reels	II	II	II
Conveyors	II	II	II
Cutter Head Drives	III	III	III
Pumps	III	III	III
Screen Drives	III	III	III
Stackers	II	II	II
Winches	II	II	II
ELEVATORS			
Bucket	I	II	II
Centrifugal Discharge	I	I	II
Escalators	I	I	II
Freight	I	II	II
Gravity Discharge	I	I	II
EXTRUDERS			
General	II	II	II
Plastics			
Variable Speed Drive	III	III	III
Fixed Speed Drive	III	III	III
Rubber			
Continuous Screw Operation	III	III	III
Intermittent Screw Operation	III	III	III
FANS			
Centrifugal	I	I	II

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
FANS (Cont'd)			
Cooling Towers	III	III	III
Forced Draft	II	II	II
Induced Draft	II	II	II
Industrial & Mine	II	II	II
FEEDERS			
Apron	I	II	II
Belt	I	II	II
Disc	I	I	II
Reciprocating	II	III	III
Screw	I	II	II
FOOD INDUSTRY			
Cereal Cooker	I	I	II
Dough Mixer	II	II	II
Meat Grinders	II	II	II
Slicers	I	II	II
GENERATORS AND EXCITERS	II	II	II
HAMMER MILLS	III	III	III
HOISTS			
Heavy Duty	◆	◆	◆
Medium Duty	◆	◆	◆
Skip Hoist	◆	◆	◆
LAUNDRY TUMBLERS	II	II	II
LAUNDRY WASHERS	II	II	III
LUMBER INDUSTRY			
Barkers			
Spindle Feed	II	II	II
Main Drive	III	III	III
Conveyors			
Burner	II	II	II
Main or Heavy Duty	II	II	II
Main Log	III	III	III
Re-saw, Merry-Go-Round	II	II	II
Slab	III	III	III
Transfer	II	II	II
Chains			
Floor	II	II	II
Green	II	II	III
Cut-Off-Saws			
Chain	II	II	III
Drag	II	II	III
Debarking Drums	III	III	III
Feeds			
Edger	II	II	II
Gang	II	III	III
Trimmer	II	II	II
Log Deck	III	III	III
Log Hauls - Incline - Well Type	III	III	III
Log Turning Devices	III	III	III
Planer Feed	II	II	II
Planer Tilting Hoists	II	II	II
Rolls - Live-Off Brg - Roll Cases	III	III	III
Sorting Table	II	II	II
Tipple Hoist	II	II	II
Transfer			
Chain	II	II	III
Craneway	II	II	II
Tray Drives	II	II	II
Veneer Lathe Drives	II	II	II
METAL MILLS			
Draw Bench Carriage and Main Drive	II	II	II
Runout Table			
Non-Reversing			
Group Drives	II	II	II
Individual Drives	III	III	III
Reversing	III	III	III
Slab Pushers	II	II	II
Shears	III	III	III
Wire Drawing	II	II	II
Wire Winding Machine	II	II	II
METAL STRIP PROCESSING MACHINERY			
Bridges	II	II	II
Collers & Uncoilers	I	I	II
Edge Trimmers	I	II	II
Flatteners	II	II	II
Loopers (Accumulators)	I	I	I
Pinch Rolls	II	II	II
Scrap Choppers	II	II	II
Shears	III	III	III
Slitters	I	II	II
MILLS, ROTARY TYPE			
Ball & Rod			
Spur Ring Gear	III	III	III
Helical Ring Gear	II	II	II
Direct Connected	III	III	III

Classification Numbers

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
MILLS, ROTARY TYPE (Cont'd)			
Cement Kilns	II	II	II
Dryers & Coolers	II	II	II
PAPER MILLS ¹⁾			
Agitator (Mixer)	II	II	II
Agitator For Pure Liquors	II	II	II
Barking Drums	III	III	III
Barkers - Mechanical	III	III	III
Beater	II	II	II
Breaker Stack	II	II	II
Calendar ²⁾	II	II	II
Chipper	III	III	III
Chip Feeder	II	II	II
Coating Rolls	II	II	II
Conveyors			
Chip, Bark, Chemical	II	II	II
Log (Including Slab)	III	III	III
Couch Rolls	II	II	II
Cutter	III	III	III
Cylinder Molds	II	II	II
Dryers ²⁾			
Paper Machine	II	II	II
Conveyor Type	II	II	II
Embosser	II	II	II
Extruder	II	II	II
Fourdrinier Rolls (Includes Lump Breaker, Dandy Roll, Wire Turning, and Return Rolls)	II	II	II
Jordan	II	II	II
Kiln Drive	II	II	II
Mt. Hope Roll	II	II	II
Paper Rolls	II	II	II
Platter	II	II	II
Presses - Felt Suction	II	II	II
Pulper	III	III	III
Pumps - Vacuum	II	II	II
Reel (Surface - Type)	II	II	II
Screens			
Chip	II	II	II
Rotary	II	II	II
Vibrating	III	III	III
Size Press	II	II	II
Supercalendar	II	II	II
Thickener (AC Motor)	II	II	II
Thickener (DC Motor)	II	II	II
Washer (AC Motor)	II	II	II
Washer (DC Motor)	II	II	II
Wind and Unwind Stand	I	I	I
Winders (Surface Type)	II	II	II
Yankee Dryers ²⁾	II	II	II
PLASTICS INDUSTRY			
PRIMARY PROCESSING			
Intensive Internal Mixers			
Batch Mixers	III	III	III
Continuous Mixers	II	II	II
Batch Drop Mill - 2 Smooth Rolls	II	II	II
Continuous Feed, Holding & Blend Mill	II	II	II
Calendars	II	II	II
PLASTICS INDUSTRY			
SECONDARY PROCESSING			
Blow Molders	II	II	II
Coating	II	II	II
Film	II	II	II
Pipe	II	II	II
Pre-Plasticizers	II	II	II
Rods	II	II	II
Sheet	II	II	II
Tubing	II	II	II
PULLERS - BARGE HAUL	II	II	II
PUMPS			
Centrifugal	I	I	II
Proportioning	II	II	II
Reciprocating			
Single Acting, 3 or more Cylinders	II	II	II
Double Acting, 2 or more Cylinders	II	II	II
Rotary			
Gear Type	I	I	II
Lobe	I	I	II
Vane	I	I	II
RUBBER INDUSTRY			
Intensive Internal Mixers			
Batch Mixers	III	III	III
Continuous Mixers	II	II	II
Mixing Mill			
2 Smooth Rolls	II	II	II
1 or 2 Corrugated Rolls	III	III	III

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
RUBBER INDUSTRY (Cont'd)			
Batch Drop Mill - 2 Smooth Rolls	II	II	II
Cracker Warmer - 2 Roll, 1 Corrugated Roll	III	III	III
Cracker - 2 Corrugated Rolls	III	III	III
Holding, Feed & Blend Mill - 2 Rolls	II	II	II
Refiner - 2 Rolls	II	II	II
Calendars	II	II	II
SAND MULLER	II	II	II
SEWAGE DISPOSAL EQUIPMENT			
Bar Screens	II	II	II
Chemical Feeder	II	II	II
Dewatering Screens	II	II	II
Scum Breakers	II	II	II
Slow or Rapid Mixers	II	II	II
Sludge Collectors	II	II	II
Thickener	II	II	II
Vacuum Filters	II	II	II
SCREENS			
Air Washing	I	I	II
Rotary - Stone or Gravel	II	II	II
Traveling Water Intake	I	I	I
SCREW CONVEYORS			
Uniformly Loaded or Fed	I	I	II
Heavy Duty	I	II	II
SUGAR INDUSTRY			
Beet Slicer	III	III	III
Cane Knives	II	II	II
Crushers	II	II	II
Mills (Low Speed End)	III	III	III
TEXTILE INDUSTRY			
Batchers	II	II	II
Calendars	II	II	II
Cards	II	II	II
Dry Cans	II	II	II
Dyeing Machinery	II	II	II
Looms	II	II	II
Mangles	II	II	II
Nappers	II	II	II
Pads	II	II	II
Slashers	II	II	II
Soapers	II	II	II
Spinners	II	II	II
Tenter Frames	II	II	II
Washers	II	II	II
Winders	II	II	II

Notes:

1) The Class numbers listed in the table for paper mill applications are consistent with those shown in TAPPI (Technical Association of Pulp and Paper Industry) Technical information sheet 0406-18 1967, *Service Factors for Gears on Major Equipment in the Pulp and Paper Industry*.

2) Anti-friction bearings only.

◆ Contact Application Engineering (1 800 626 2093) for the selection of an AGMA Class Numbers in these applications.



HMTP Selection Chart

Class I Service (1.0 S.F.)



Involute Spline Input

Output RPM	Single Reduction									
	107HMTP05 13T SAE-B2		115HMTP05 13T SAE-B2		203HMTP05 14T SAE-C4		207HMTP05 14T SAE-C4		215HMTP05 14T SAE-C4	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
90	4.55	3,078	7.55	5,111	14.74	9,980	17.93	12,137	28.16	19,064
100	4.89	2,978	8.39	5,111	15.86	9,663	19.27	11,740	30.08	18,327
110	5.22	2,890	9.23	5,111	16.94	9,383	20.59	11,402	32.07	17,762
120	5.54	2,813	10.07	5,111	17.99	9,136	21.87	11,102	33.99	17,255
130	5.85	2,743	10.91	5,111	19.02	8,914	23.12	10,833	35.85	16,803
140	6.16	2,680	11.75	5,111	20.02	8,713	24.33	10,587	36.00	15,666
150	6.45	2,622	12.58	5,111	20.09	8,159	25.52	10,365	36.00	14,622
160	6.75	2,569	13.42	5,111	20.09	7,649	26.69	10,164	36.00	13,708
170	7.03	2,520	14.01	5,020	20.09	7,199	27.83	9,975	36.00	12,902
180	7.31	2,475	14.58	4,934	20.09	6,799	28.97	9,804	36.00	12,185
190	7.59	2,434	14.58	4,675	20.09	6,441	30.07	9,642	36.00	11,544
200	7.86	2,394	14.58	4,441	20.09	6,119	31.15	9,490	36.00	10,966
210	8.13	2,357	14.58	4,230	20.09	5,828	31.50	9,139	36.00	10,444
220	8.39	2,322	14.58	4,038	20.09	5,563	31.50	8,723	36.00	9,969
230	8.65	2,290	14.58	3,862	20.09	5,321	31.50	8,344	36.00	9,536
240	8.90	2,259	14.58	3,701	20.09	5,099	31.50	7,996	36.00	9,139
250	9.15	2,230	14.58	3,553	20.09	4,895	31.50	7,676	36.00	8,773
260	9.40	2,202	14.58	3,416	20.09	4,707	31.50	7,381	36.00	8,436
270	9.64	2,176	14.58	3,290	20.09	4,533	31.50	7,108	36.00	8,123
280	9.88	2,151	14.58	3,172	20.09	4,371	31.50	6,854	36.00	7,833
290	10.12	2,127	14.58	3,063	20.09	4,220	31.50	6,618	36.00	7,563
300	10.36	2,104	14.58	2,961	20.09	4,079	31.50	6,397	36.00	7,311
310	10.60	2,083	14.58	2,865	20.09	3,948	31.50	6,191	36.00	7,075
320	10.83	2,061	14.58	2,776	20.09	3,825	31.50	5,997	36.00	6,854
330	11.05	2,041	14.58	2,692	20.09	3,709	31.50	5,815	36.00	6,646
340	11.28	2,021	14.58	2,613	20.09	3,600	31.50	5,644	36.00	6,451
350	11.34	1,974	14.58	2,538	20.09	3,497	31.50	5,483	36.00	6,266
360	11.34	1,919	14.58	2,467	20.09	3,400	31.50	5,331	36.00	6,092
370	11.34	1,867	14.58	2,401	20.09	3,308	31.50	5,187	36.00	5,928
380	11.34	1,818	14.58	2,338	20.09	3,221	31.50	5,050	36.00	5,772
390	11.34	1,771	14.58	2,278	20.09	3,138	31.50	4,921	36.00	5,624
400	11.34	1,727	14.58	2,221	20.09	3,060	31.50	4,798	36.00	5,483

HMTF Selection Chart Class I Service (1.0 S.F.)

Involute Spline Input

Double Reduction														
Output RPM	107HMTF15 9T SAE-A2		107HMTF25 9T SAE-A2		115HMTF15 9T SAE-A2		115HMTF25 9T SAE-A2		203HMTF15 13T SAE-B2		203HMTF25 9T SAE-A2		207HMTF15 13T SAE-B2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
10	0.93	5,658	0.93	5,658	1.26	7,655	1.26	7,655	2.18	13,260	2.12	12,915	2.64	16,081
20	1.78	5,434	1.78	5,434	2.41	7,341	2.41	7,341	4.16	12,684	4.16	12,684	5.28	16,081
30	2.61	5,301	2.61	5,301	3.57	7,242	3.57	7,242	6.16	12,506	6.16	12,506	7.92	16,081
40	3.42	5,204	3.42	5,204	4.71	7,168	4.71	7,168	8.12	12,372	8.12	12,372	10.56	16,081
50	4.21	5,128	4.21	5,128	5.83	7,107	5.83	7,107	10.06	12,262	9.46	11,531	13.20	16,081
60	4.99	5,065	4.99	5,065	6.95	7,055	6.95	7,055	11.32	11,498	10.68	10,847	15.84	16,081
70	5.76	5,011	5.76	5,011	8.05	7,009	8.05	7,009	12.45	10,837	11.72	10,203	18.48	16,081
80	6.52	4,964	6.52	4,964	9.15	6,969	9.15	6,969	13.50	10,285	12.69	9,667	21.12	16,081
90	7.27	4,922	-	-	10.24	6,932	-	-	14.51	9,820	-	-	23.73	16,064
100	8.02	4,884	-	-	11.32	6,899	-	-	15.46	9,420	-	-	25.54	15,563
110	8.76	4,850	-	-	12.40	6,868	-	-	16.47	9,121	-	-	27.31	15,125
120	9.49	4,818	-	-	12.60	6,397	-	-	17.45	8,857	-	-	29.02	14,736
130	10.22	4,788	-	-	12.60	5,905	-	-	18.39	8,620	-	-	30.70	14,387

Double Reduction														
Output RPM	207HMTF25 13T SAE-B2		215HMTF15 14T SAE-C4		215HMTF25 13T SAE-B2		307HMTF15 14T SAE-C4		307HMTF25 14T SAE-C4		315HMTF15 14T SAE-C4		315HMTF25 14T SAE-C4	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
10	3.44	20,966	5.59	34,066	4.44	27,025	9.64	58,758	9.64	58,758	12.34	75,206	12.34	75,206
20	6.58	20,059	10.65	32,436	8.87	27,025	18.47	56,266	18.47	56,266	23.67	72,105	23.67	72,105
30	9.73	19,769	15.73	31,951	13.31	27,025	26.97	54,771	26.97	54,771	34.55	70,167	34.55	70,167
40	12.83	19,549	20.73	31,582	17.74	27,025	34.29	52,228	33.68	51,292	45.13	68,741	45.13	68,741
50	15.43	18,796	24.54	29,905	22.18	27,025	40.09	48,847	39.37	47,973	54.00	65,798	50.40	61,412
60	17.53	17,796	27.88	28,314	26.61	27,025	45.00	45,693	41.40	42,038	54.00	54,832	50.40	51,176
70	19.52	16,991	31.06	27,033	29.70	25,849	45.00	39,166	41.40	36,032	54.00	46,999	50.40	43,865
80	21.43	16,323	34.10	25,972	29.70	22,618	45.00	34,270	41.40	31,528	54.00	41,124	50.40	38,382
90	-	-	36.00	24,370	-	-	45.00	30,462	-	-	54.00	36,555	-	-
100	-	-	36.00	21,933	-	-	45.00	27,416	-	-	54.00	32,899	-	-
110	-	-	36.00	19,939	-	-	45.00	24,924	-	-	54.00	29,908	-	-
120	-	-	36.00	18,277	-	-	45.00	22,847	-	-	54.00	27,416	-	-
130	-	-	36.00	16,871	-	-	45.00	21,089	-	-	54.00	25,307	-	-



HMTP Selection Chart

Class I Service (1.0 S.F.)



Straight Sided Spline Input

Output RPM	Single Reduction									
	107HMTP05 6B SAE-A2		115HMTP05 6B SAE-A2		203HMTP05 6B SAE-A2		207HMTP-05 6B SAE-A2		215HMTP05 6B SAE-A2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
1	0.07	4,089	0.12	7,496	0.18	10,905	0.25	14,994	0.26	15,733
5	0.27	3,271	0.52	6,366	0.83	10,156	1.04	12,683	1.29	15,733
10	0.52	3,169	1.02	6,225	1.65	10,063	2.03	12,394	2.58	15,733
20	1.02	3,118	2.02	6,154	3.29	10,016	4.02	12,249	5.16	15,733
30	1.53	3,101	3.02	6,131	4.92	10,000	6.01	12,201	7.75	15,733
40	2.03	3,092	4.02	6,119	6.56	9,992	7.99	12,177	10.33	15,733
50	2.53	3,087	5.02	6,112	8.20	9,988	9.98	12,162	12.91	15,733
60	3.04	3,084	6.01	6,107	9.83	9,985	11.97	12,153	15.49	15,733
70	3.54	3,081	7.01	6,104	11.47	9,982	13.95	12,146	18.08	15,733
80	4.04	3,080	8.01	6,101	13.11	9,981	15.94	12,141	20.66	15,733
90	4.55	3,078	9.01	6,099	14.74	9,980	17.93	12,137	23.24	15,733
100	4.89	2,978	9.69	5,906	15.86	9,663	19.27	11,740	25.82	15,733
110	5.22	2,890	10.36	5,737	16.94	9,383	20.59	11,402	28.40	15,733
120	5.54	2,813	11.00	5,586	17.99	9,136	21.87	11,102	30.99	15,733
130	5.85	2,743	11.63	5,450	19.02	8,914	23.12	10,833	33.57	15,733
140	6.16	2,680	12.24	5,328	20.02	8,713	24.33	10,587	36.00	15,666
150	6.45	2,622	12.60	5,118	20.09	8,159	25.52	10,365	36.00	14,622
160	6.75	2,569	12.60	4,798	20.09	7,649	26.69	10,164	36.00	13,708
170	7.03	2,520	12.60	4,516	20.09	7,199	27.83	9,975	36.00	12,902
180	7.31	2,475	12.60	4,265	20.09	6,799	28.97	9,804	36.00	12,185
190	7.59	2,434	12.60	4,040	20.09	6,441	30.07	9,642	36.00	11,544
200	7.86	2,394	12.60	3,838	20.09	6,119	31.15	9,490	36.00	10,966
210	8.13	2,357	12.60	3,655	20.09	5,828	31.50	9,139	36.00	10,444
220	8.39	2,322	12.60	3,489	20.09	5,563	31.50	8,723	36.00	9,969
230	8.65	2,290	12.60	3,338	20.09	5,321	31.50	8,344	36.00	9,536
240	8.90	2,259	12.60	3,199	20.09	5,099	31.50	7,996	36.00	9,139
250	9.15	2,230	12.60	3,071	20.09	4,895	31.50	7,676	36.00	8,773
260	9.40	2,202	12.60	2,952	20.09	4,707	31.50	7,381	36.00	8,436
270	9.64	2,176	12.60	2,843	20.09	4,533	31.50	7,108	36.00	8,123
280	9.88	2,151	12.60	2,742	20.09	4,371	31.50	6,854	36.00	7,833
290	10.12	2,127	12.60	2,647	20.09	4,220	31.50	6,618	36.00	7,563
300	10.36	2,104	12.60	2,559	20.09	4,079	31.50	6,397	36.00	7,311
310	10.60	2,083	12.60	2,476	20.09	3,948	31.50	6,191	36.00	7,075
320	10.83	2,061	12.60	2,399	20.09	3,825	31.50	5,997	36.00	6,854
330	11.05	2,041	12.60	2,326	20.09	3,709	31.50	5,815	36.00	6,646
340	11.28	2,021	12.60	2,258	20.09	3,600	31.50	5,644	36.00	6,451
350	11.34	1,974	12.60	2,193	20.09	3,497	31.50	5,483	36.00	6,266
360	11.34	1,919	12.60	2,132	20.09	3,400	31.50	5,331	36.00	6,092
370	11.34	1,867	12.60	2,075	20.09	3,308	31.50	5,187	36.00	5,928
380	11.34	1,818	12.60	2,020	20.09	3,221	31.50	5,050	36.00	5,772
390	11.34	1,771	12.60	1,968	20.09	3,138	31.50	4,921	36.00	5,624
400	11.34	1,727	12.60	1,919	20.09	3,060	31.50	4,798	36.00	5,483

Straight Sided Spline Input

Double Reduction												
Output RPM	203HMTP25 6B SAE-A2		207HMTP15 6B SAE-A2		207HMTP25 6B SAE-A2		215HMTP25 6B SAE-A2		307HMTP25 6B SAE-A2		315HMTP25 6B SAE-A2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
1	0.19	11,569	0.29	17,721	0.29	17,721	0.49	29,989	0.91	55,479	1.12	68,156
5	1.17	14,268	1.85	22,570	1.85	22,570	2.99	36,404	4.98	60,698	6.10	74,334
10	2.18	13,260	3.44	20,966	3.44	20,966	5.59	34,066	9.64	58,758	12.20	74,334
20	4.16	12,684	6.58	20,059	6.58	20,059	10.65	32,436	18.47	56,266	23.67	72,105
30	6.16	12,506	9.73	19,769	9.73	19,769	15.73	31,951	26.97	54,771	34.55	70,167
40	8.12	12,372	12.83	19,549	12.83	19,549	20.73	31,582	33.68	51,292	45.13	68,741
50	9.46	11,531	15.73	19,162	15.43	18,796	24.99	30,450	39.37	47,973	50.40	61,412
60	10.68	10,847	17.87	18,141	17.53	17,796	28.39	28,829	41.40	42,038	50.40	51,176
70	11.72	10,203	19.90	17,321	19.52	16,991	29.70	25,849	41.40	36,032	50.40	43,865
80	12.69	9,667	21.85	16,641	21.43	16,323	29.70	22,618	41.40	31,528	50.40	38,382
90	-	-	23.73	16,064	-	-	-	-	-	-	-	-
100	-	-	25.54	15,563	-	-	-	-	-	-	-	-
110	-	-	27.31	15,125	-	-	-	-	-	-	-	-
120	-	-	29.02	14,736	-	-	-	-	-	-	-	-
130	-	-	30.70	14,387	-	-	-	-	-	-	-	-



HMTP Selection Chart

Class II Service (1.4 S.F.)



Involute Spline Input

Output RPM	Single Reduction									
	107HMTP05 13T SAE-B2		115HMTP05 13T SAE-B2		203HMTP05 14T SAE-C4		207HMTP05 14T SAE-C4		215HMTP05 14T SAE-C4	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
90	3.25	2,199	5.39	3,651	10.53	7,128	12.81	8,669	20.12	13,617
100	3.49	2,127	5.99	3,651	11.33	6,902	13.76	8,386	21.49	13,091
110	3.73	2,064	6.59	3,651	12.10	6,702	14.70	8,144	22.91	12,687
120	3.96	2,009	7.19	3,651	12.85	6,526	15.62	7,930	24.28	12,325
130	4.18	1,959	7.79	3,651	13.59	6,367	16.51	7,738	25.61	12,002
140	4.40	1,914	8.39	3,651	14.30	6,224	17.38	7,562	26.91	11,709
150	4.61	1,873	8.99	3,651	15.00	6,093	18.23	7,404	28.18	11,444
160	4.82	1,835	9.59	3,651	15.69	5,973	19.07	7,260	29.41	11,199
170	5.02	1,800	10.01	3,586	16.35	5,861	19.88	7,125	30.62	10,973
180	5.22	1,768	10.41	3,524	17.01	5,759	20.69	7,003	31.81	10,765
190	5.42	1,738	10.81	3,465	17.66	5,664	21.48	6,887	32.97	10,572
200	5.61	1,710	11.20	3,411	18.30	5,576	22.25	6,778	34.11	10,390
210	5.80	1,684	11.58	3,361	18.93	5,491	23.01	6,676	35.23	10,220
220	5.99	1,659	11.96	3,314	19.55	5,413	23.77	6,581	36.00	9,969
230	6.18	1,636	12.34	3,268	20.09	5,321	24.52	6,494	36.00	9,536
240	6.36	1,614	12.70	3,225	20.09	5,099	25.24	6,407	36.00	9,139
250	6.54	1,593	13.07	3,186	20.09	4,895	25.96	6,327	36.00	8,773
260	6.71	1,573	13.43	3,147	20.09	4,707	26.68	6,252	36.00	8,436
270	6.89	1,554	13.79	3,111	20.09	4,533	27.39	6,180	36.00	8,123
280	7.06	1,536	14.13	3,076	20.09	4,371	28.09	6,113	36.00	7,833
290	7.23	1,519	14.48	3,043	20.09	4,220	28.78	6,046	36.00	7,563
300	7.40	1,503	14.58	2,961	20.09	4,079	29.46	5,983	36.00	7,311
310	7.57	1,488	14.58	2,865	20.09	3,948	30.14	5,924	36.00	7,075
320	7.73	1,472	14.58	2,776	20.09	3,825	30.81	5,866	36.00	6,854
330	7.90	1,458	14.58	2,692	20.09	3,709	31.45	5,807	36.00	6,646
340	8.06	1,444	14.58	2,613	20.09	3,600	31.50	5,644	36.00	6,451
350	8.22	1,431	14.58	2,538	20.09	3,497	31.50	5,483	36.00	6,266
360	8.38	1,418	14.58	2,467	20.09	3,400	31.50	5,331	36.00	6,092
370	8.53	1,405	14.58	2,401	20.09	3,308	31.50	5,187	36.00	5,928
380	8.69	1,393	14.58	2,338	20.09	3,221	31.50	5,050	36.00	5,772
390	8.85	1,382	14.58	2,278	20.09	3,138	31.50	4,921	36.00	5,624
400	9.00	1,371	14.58	2,221	20.09	3,060	31.50	4,798	36.00	5,483

HMTF Selection Chart

Class II Service (1.4 S.F.)

Involute Spline Input

Double Reduction														
Output RPM	107HMTF15 9T SAE-A2		107HMTF25 9T SAE-A2		115HMTF15 9T SAE-A2		115HMTF25 9T SAE-A2		203HMTF15 13T SAE-B2		203HMTF25 9T SAE-A2		207HMTF15 13T SAE-B2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
10	0.66	4,041	0.66	4,041	0.90	5,468	0.90	5,468	1.55	9,472	1.51	9,225	1.89	11,486
20	1.27	3,882	1.27	3,882	1.72	5,244	1.72	5,244	2.97	9,060	2.97	9,060	3.77	11,486
30	1.86	3,786	1.86	3,786	2.55	5,173	2.55	5,173	4.40	8,933	4.40	8,933	5.66	11,486
40	2.44	3,717	2.44	3,717	3.36	5,120	3.36	5,120	5.80	8,837	5.80	8,837	7.54	11,486
50	3.01	3,663	3.01	3,663	4.17	5,076	4.17	5,076	7.19	8,758	6.76	8,236	9.43	11,486
60	3.56	3,618	3.56	3,618	4.96	5,039	4.96	5,039	8.09	8,213	7.63	7,748	11.31	11,486
70	4.11	3,580	4.11	3,580	5.75	5,007	5.75	5,007	8.89	7,741	8.37	7,288	13.20	11,486
80	4.66	3,546	4.66	3,546	6.54	4,978	6.54	4,978	9.65	7,346	9.07	6,905	15.08	11,486
90	5.19	3,516	-	-	7.31	4,952	-	-	10.36	7,014	-	-	16.95	11,475
100	5.73	3,489	-	-	8.09	4,928	-	-	11.04	6,728	-	-	18.25	11,117
110	6.25	3,464	-	-	8.86	4,905	-	-	11.76	6,515	-	-	19.51	10,804
120	6.78	3,441	-	-	9.62	4,885	-	-	12.46	6,327	-	-	20.73	10,526
130	7.30	3,420	-	-	10.38	4,865	-	-	13.14	6,157	-	-	21.93	10,276

Double Reduction														
Output RPM	207HMTF25 13T SAE-B2		215HMTF15 14T SAE-C4		215HMTF25 13T SAE-B2		307HMTF15 14T SAE-C4		307HMTF25 14T SAE-C4		315HMTF15 14T SAE-C4		315HMTF25 14T SAE-C4	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
10	2.46	14,976	3.99	24,333	3.17	19,303	6.89	41,970	6.89	41,970	8.82	53,719	8.82	53,719
20	4.70	14,328	7.61	23,168	6.34	19,303	13.19	40,190	13.19	40,190	16.91	51,503	16.91	51,503
30	6.95	14,121	11.24	22,822	9.51	19,303	19.26	39,122	19.26	39,122	24.68	50,119	24.68	50,119
40	9.17	13,963	14.81	22,559	12.67	19,303	24.49	37,306	24.05	36,637	32.24	49,100	32.24	49,100
50	11.02	13,426	17.53	21,361	15.84	19,303	28.63	34,891	28.12	34,267	39.64	48,299	39.64	48,299
60	12.52	12,711	19.92	20,225	19.01	19,303	32.53	33,033	31.95	32,441	46.47	47,185	46.54	47,261
70	13.94	12,136	22.19	19,309	22.18	19,303	36.24	31,540	35.59	30,977	51.76	45,050	50.40	43,865
80	15.31	11,660	24.36	18,552	24.80	18,889	39.79	30,301	39.08	29,758	54.00	41,124	50.40	38,382
90	-	-	26.45	17,908	-	-	43.21	29,249	-	-	54.00	36,555	-	-
100	-	-	28.48	17,351	-	-	45.00	27,416	-	-	54.00	32,899	-	-
110	-	-	30.44	16,861	-	-	45.00	24,924	-	-	54.00	29,908	-	-
120	-	-	32.35	16,426	-	-	45.00	22,847	-	-	54.00	27,416	-	-
130	-	-	34.22	16,037	-	-	45.00	21,089	-	-	54.00	25,307	-	-



HMTP Selection Chart

Class II Service (1.4 S.F.)



Straight Sided Spline Input

Output RPM	Single Reduction									
	107HMTP05 6B SAE-A2		115HMTP05 6B SAE-A2		203HMTP05 6B SAE-A2		207HMTP-05 6B SAE-A2		215HMTP05 6B SAE-A2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
1	0.05	2,921	0.09	5,354	0.13	7,789	0.18	10,710	0.18	11,238
5	0.19	2,337	0.37	4,547	0.60	7,254	0.74	9,059	0.92	11,238
10	0.37	2,264	0.73	4,446	1.18	7,188	1.45	8,853	1.84	11,238
20	0.73	2,227	1.44	4,396	2.35	7,154	2.87	8,749	3.69	11,238
30	1.09	2,215	2.16	4,379	3.52	7,143	4.29	8,715	5.53	11,238
40	1.45	2,209	2.87	4,371	4.69	7,137	5.71	8,698	7.38	11,238
50	1.81	2,205	3.58	4,366	5.85	7,134	7.13	8,687	9.22	11,238
60	2.17	2,203	4.30	4,362	7.02	7,132	8.55	8,681	11.07	11,238
70	2.53	2,201	5.01	4,360	8.19	7,130	9.97	8,676	12.91	11,238
80	2.89	2,200	5.72	4,358	9.36	7,129	11.39	8,672	14.76	11,238
90	3.25	2,199	6.44	4,357	10.53	7,128	12.81	8,669	16.60	11,238
100	3.49	2,127	6.92	4,219	11.33	6,902	13.76	8,386	18.44	11,238
110	3.73	2,064	7.40	4,098	12.10	6,702	14.70	8,144	20.29	11,238
120	3.96	2,009	7.86	3,990	12.85	6,526	15.62	7,930	22.13	11,238
130	4.18	1,959	8.31	3,893	13.59	6,367	16.51	7,738	23.98	11,238
140	4.40	1,914	8.75	3,806	14.30	6,224	17.38	7,562	25.82	11,238
150	4.61	1,873	9.17	3,726	15.00	6,093	18.23	7,404	27.67	11,238
160	4.82	1,835	9.59	3,653	15.69	5,973	19.07	7,260	29.41	11,199
170	5.02	1,800	10.01	3,586	16.35	5,861	19.88	7,125	30.62	10,973
180	5.22	1,768	10.41	3,524	17.01	5,759	20.69	7,003	31.81	10,765
190	5.42	1,738	10.81	3,465	17.66	5,664	21.48	6,887	32.97	10,572
200	5.61	1,710	11.20	3,411	18.30	5,576	22.25	6,778	34.11	10,390
210	5.80	1,684	11.58	3,361	18.93	5,491	23.01	6,676	35.23	10,220
220	5.99	1,659	11.96	3,314	19.55	5,413	23.77	6,581	36.00	9,969
230	6.18	1,636	12.34	3,268	20.09	5,321	24.52	6,494	36.00	9,536
240	6.36	1,614	12.70	3,225	20.09	5,099	25.24	6,407	36.00	9,139
250	6.54	1,593	13.07	3,186	20.09	4,895	25.96	6,327	36.00	8,773
260	6.71	1,573	13.43	3,147	20.09	4,707	26.68	6,252	36.00	8,436
270	6.89	1,554	13.79	3,111	20.09	4,533	27.39	6,180	36.00	8,123
280	7.06	1,536	14.13	3,076	20.09	4,371	28.09	6,113	36.00	7,833
290	7.23	1,519	14.48	3,043	20.09	4,220	28.78	6,046	36.00	7,563
300	7.40	1,503	14.58	2,961	20.09	4,079	29.46	5,983	36.00	7,311
310	7.57	1,488	14.58	2,865	20.09	3,948	30.14	5,924	36.00	7,075
320	7.73	1,472	14.58	2,776	20.09	3,825	30.81	5,866	36.00	6,854
330	7.90	1,458	14.58	2,692	20.09	3,709	31.45	5,807	36.00	6,646
340	8.06	1,444	14.58	2,613	20.09	3,600	31.50	5,644	36.00	6,451
350	8.22	1,431	14.58	2,538	20.09	3,497	31.50	5,483	36.00	6,266
360	8.38	1,418	14.58	2,467	20.09	3,400	31.50	5,331	36.00	6,092
370	8.53	1,405	14.58	2,401	20.09	3,308	31.50	5,187	36.00	5,928
380	8.69	1,393	14.58	2,338	20.09	3,221	31.50	5,050	36.00	5,772
390	8.85	1,382	14.58	2,278	20.09	3,138	31.50	4,921	36.00	5,624
400	9.00	1,371	14.58	2,221	20.09	3,060	31.50	4,798	36.00	5,483



HMTP Selection Chart

Class II Service (1.4 S.F.)



HMTP

Straight Sided Spline Input

Output RPM	Double Reduction											
	203HMTP25 6B SAE-A2		207HMTP15 6B SAE-A2		207HMTP25 6B SAE-A2		215HMTP25 6B SAE-A2		307HMTP25 6B SAE-A2		315HMTP25 6B SAE-A2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
1	0.14	8,264	0.21	12,658	0.21	12,658	0.35	21,420	0.65	39,628	0.80	48,683
5	0.84	10,192	1.32	16,121	1.32	16,121	2.13	26,003	3.56	43,356	4.36	53,096
10	1.55	9,472	2.46	14,976	2.46	14,976	3.99	24,333	6.89	41,970	8.71	53,096
20	2.97	9,060	4.70	14,328	4.70	14,328	7.61	23,168	13.19	40,190	16.91	51,503
30	4.40	8,933	6.95	14,121	6.95	14,121	11.24	22,822	19.26	39,122	24.68	50,119
40	5.80	8,837	9.17	13,963	9.17	13,963	14.81	22,559	24.05	36,637	32.24	49,100
50	6.76	8,236	11.23	13,687	11.02	13,426	17.85	21,750	28.12	34,267	39.64	48,299
60	7.63	7,748	12.76	12,958	12.52	12,711	20.28	20,592	31.95	32,441	46.54	47,261
70	8.37	7,288	14.22	12,372	13.94	12,136	22.59	19,662	35.59	30,977	50.40	43,865
80	9.07	6,905	15.61	11,886	15.31	11,660	24.80	18,889	39.08	29,758	50.40	38,382
90	-	-	16.95	11,475	-	-	-	-	-	-	-	-
100	-	-	18.25	11,117	-	-	-	-	-	-	-	-
110	-	-	19.51	10,804	-	-	-	-	-	-	-	-
120	-	-	20.73	10,526	-	-	-	-	-	-	-	-
130	-	-	21.93	10,276	-	-	-	-	-	-	-	-



HMTP Selection Chart



Class III Service (2.0 S.F.)

Involute Spline Input

Output RPM	Single Reduction									
	107HMTP05 13T SAE-B2		115HMTP05 13T SAE-B2		203HMTP05 14T SAE-C4		207HMTP05 14T SAE-C4		215HMTP05 14T SAE-C4	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
90	2.27	1,539	3.78	2,556	7.37	4,990	8.96	6,068	14.08	9,532
100	2.44	1,489	4.19	2,556	7.93	4,831	9.63	5,870	15.04	9,164
110	2.61	1,445	4.61	2,556	8.47	4,692	10.29	5,701	16.03	8,881
120	2.77	1,406	5.03	2,556	9.00	4,568	10.93	5,551	16.99	8,627
130	2.93	1,371	5.45	2,556	9.51	4,457	11.56	5,417	17.93	8,402
140	3.08	1,340	5.87	2,556	10.01	4,357	12.16	5,294	18.83	8,197
150	3.23	1,311	6.29	2,556	10.50	4,265	12.76	5,182	19.72	8,011
160	3.37	1,284	6.71	2,556	10.98	4,181	13.35	5,082	20.59	7,839
170	3.52	1,260	7.00	2,510	11.45	4,103	13.92	4,987	21.43	7,681
180	3.66	1,238	7.29	2,467	11.91	4,031	14.48	4,902	22.26	7,536
190	3.79	1,217	7.57	2,426	12.36	3,965	15.03	4,821	23.08	7,401
200	3.93	1,197	7.84	2,388	12.81	3,903	15.58	4,745	23.88	7,273
210	4.06	1,179	8.11	2,353	13.25	3,844	16.11	4,673	24.66	7,154
220	4.19	1,161	8.38	2,319	13.68	3,789	16.64	4,607	25.43	7,043
230	4.32	1,145	8.64	2,287	14.11	3,737	17.16	4,546	26.19	6,939
240	4.45	1,129	8.89	2,258	14.53	3,689	17.67	4,485	26.94	6,840
250	4.57	1,115	9.15	2,230	14.95	3,643	18.17	4,429	27.67	6,744
260	4.70	1,101	9.40	2,203	15.36	3,599	18.67	4,376	28.40	6,654
270	4.82	1,088	9.65	2,178	15.76	3,556	19.17	4,326	29.12	6,571
280	4.94	1,075	9.89	2,153	16.16	3,517	19.67	4,279	29.82	6,488
290	5.06	1,063	10.14	2,130	16.56	3,479	20.14	4,232	30.52	6,412
300	5.18	1,052	10.38	2,108	16.95	3,442	20.62	4,188	31.21	6,339
310	5.30	1,041	10.62	2,087	17.34	3,408	21.10	4,147	31.88	6,266
320	5.41	1,031	10.85	2,066	17.72	3,374	21.57	4,106	32.57	6,200
330	5.53	1,020	11.08	2,046	18.10	3,342	22.02	4,065	33.23	6,135
340	5.64	1,011	11.32	2,029	18.48	3,311	22.47	4,027	33.89	6,073
350	5.75	1,001	11.55	2,011	18.85	3,282	22.94	3,993	34.53	6,011
360	5.86	993	11.77	1,992	19.22	3,252	23.39	3,958	35.17	5,953
370	5.97	984	12.00	1,976	19.59	3,225	23.83	3,924	35.83	5,899
380	6.08	975	12.23	1,960	19.95	3,198	24.28	3,893	36.00	5,772
390	6.19	967	12.44	1,944	20.09	3,138	24.72	3,862	36.00	5,624
400	6.30	959	12.66	1,929	20.09	3,060	25.15	3,831	36.00	5,483

HMTF Selection Chart Class III Service (2.0 S.F.)

Involute Spline Input

Double Reduction														
Output RPM	107HMTF15 9T SAE-A2		107HMTF25 9T SAE-A2		115HMTF15 9T SAE-A2		115HMTF25 9T SAE-A2		203HMTF15 13T SAE-B2		203HMTF25 9T SAE-A2		207HMTF15 13T SAE-B2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
10	0.46	2,829	0.46	2,829	0.63	3,827	0.63	3,827	1.09	6,630	1.06	6,457	1.32	8,040
20	0.89	2,717	0.89	2,717	1.20	3,671	1.20	3,671	2.08	6,342	2.08	6,342	2.64	8,040
30	1.31	2,650	1.31	2,650	1.78	3,621	1.78	3,621	3.08	6,253	3.08	6,253	3.96	8,040
40	1.71	2,602	1.71	2,602	2.35	3,584	2.35	3,584	4.06	6,186	4.06	6,186	5.28	8,040
50	2.10	2,564	2.10	2,564	2.92	3,553	2.92	3,553	5.03	6,131	4.73	5,765	6.60	8,040
60	2.49	2,533	2.49	2,533	3.47	3,527	3.47	3,527	5.66	5,749	5.34	5,423	7.92	8,040
70	2.88	2,506	2.88	2,506	4.03	3,505	4.03	3,505	6.23	5,419	5.86	5,102	9.24	8,040
80	3.26	2,482	3.26	2,482	4.58	3,484	4.58	3,484	6.75	5,142	6.35	4,833	10.56	8,040
90	3.64	2,461	-	-	5.12	3,466	-	-	7.25	4,910	-	-	11.87	8,032
100	4.01	2,442	-	-	5.66	3,449	-	-	7.73	4,710	-	-	12.77	7,782
110	4.38	2,425	-	-	6.20	3,434	-	-	8.23	4,561	-	-	13.65	7,563
120	4.74	2,409	-	-	6.73	3,419	-	-	8.72	4,429	-	-	14.51	7,368
130	5.11	2,394	-	-	7.27	3,406	-	-	9.20	4,310	-	-	15.35	7,193

Double Reduction														
Output RPM	207HMTF25 13T SAE-B2		215HMTF15 14T SAE-C4		215HMTF25 13T SAE-B2		307HMTF15 14T SAE-C4		307HMTF25 14T SAE-C4		315HMTF15 14T SAE-C4		315HMTF25 14T SAE-C4	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
10	1.72	10,483	2.80	17,033	2.22	13,512	4.82	29,379	4.82	29,379	6.17	37,603	6.17	37,603
20	3.29	10,029	5.32	16,218	4.44	13,512	9.24	28,133	9.24	28,133	11.83	36,052	11.83	36,052
30	4.87	9,884	7.87	15,975	6.65	13,512	13.48	27,385	13.48	27,385	17.28	35,083	17.28	35,083
40	6.42	9,774	10.37	15,791	8.87	13,512	17.14	26,114	16.84	25,646	22.57	34,370	22.57	34,370
50	7.71	9,398	12.27	14,953	11.09	13,512	20.04	24,423	19.69	23,987	27.75	33,810	27.75	33,810
60	8.76	8,898	13.94	14,157	13.31	13,512	22.77	23,123	22.36	22,708	32.53	33,029	32.58	33,082
70	9.76	8,496	15.53	13,516	15.52	13,512	25.37	22,078	24.91	21,684	36.23	31,535	36.08	31,406
80	10.72	8,162	17.05	12,986	17.36	13,222	27.85	21,211	27.35	20,831	39.78	30,297	39.44	30,037
90	-	-	18.52	12,535	-	-	30.24	20,474	-	-	43.20	29,247	-	-
100	-	-	19.94	12,146	-	-	32.56	19,838	-	-	46.51	28,336	-	-
110	-	-	21.31	11,803	-	-	34.81	19,279	-	-	49.72	27,537	-	-
120	-	-	22.65	11,498	-	-	36.99	18,783	-	-	52.84	26,827	-	-
130	-	-	23.95	11,226	-	-	39.12	18,336	-	-	54.00	25,307	-	-



HMTP Selection Chart



Class III Service (2.0 S.F.)

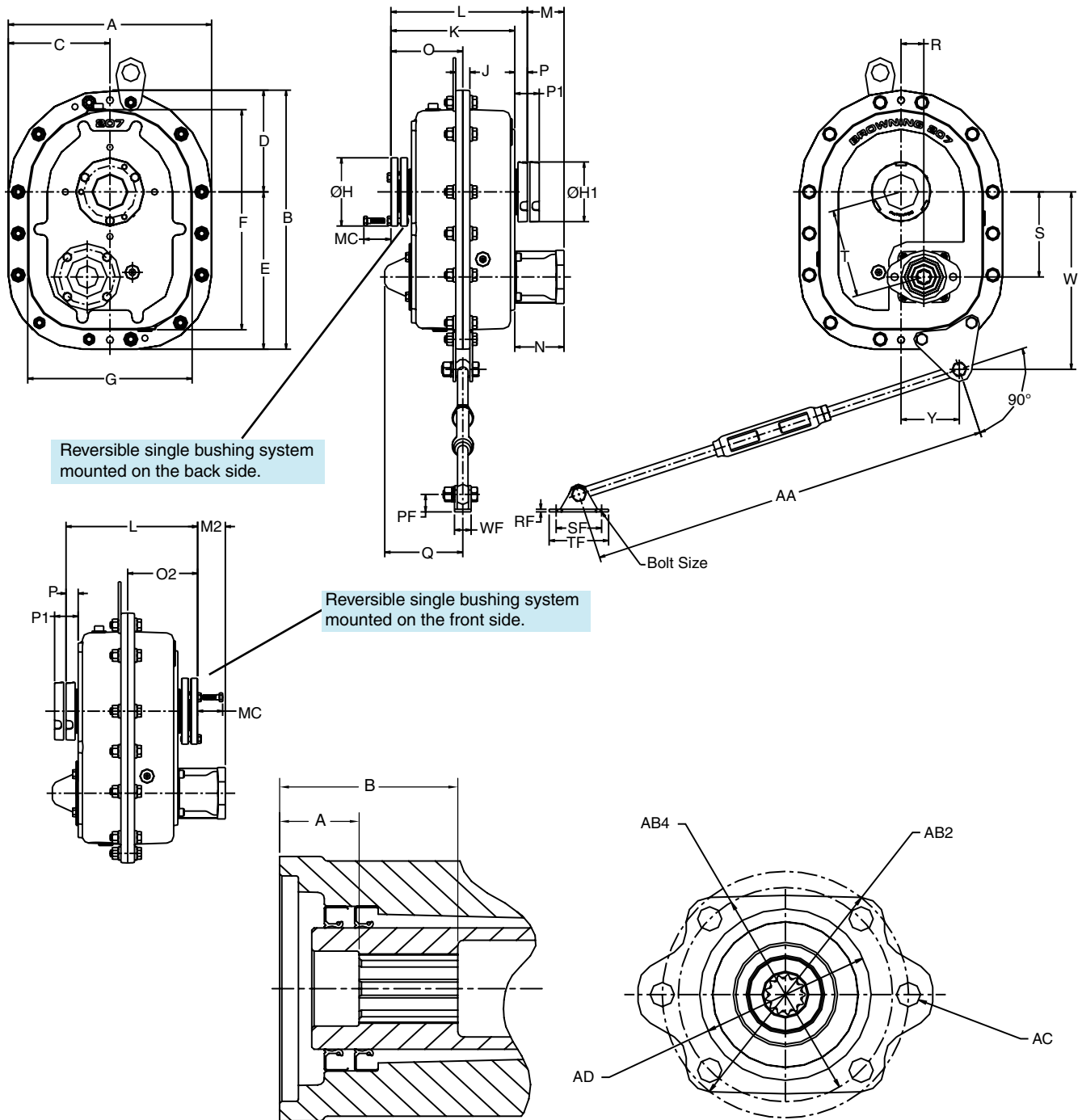
Straight Sided Spline Input

Output RPM	Single Reduction									
	107HMTP05 6B SAE-A2		115HMTP05 6B SAE-A2		203HMTP05 6B SAE-A2		207HMTP-05 6B SAE-A2		215HMTP05 6B SAE-A2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
1	0.03	2,045	0.06	3,748	0.09	5,452	0.12	7,497	0.13	7,866
5	0.13	1,636	0.26	3,183	0.42	5,078	0.52	6,341	0.65	7,866
10	0.26	1,585	0.51	3,112	0.83	5,031	1.02	6,197	1.29	7,866
20	0.51	1,559	1.01	3,077	1.64	5,008	2.01	6,125	2.58	7,866
30	0.76	1,550	1.51	3,065	2.46	5,000	3.00	6,100	3.87	7,866
40	1.02	1,546	2.01	3,059	3.28	4,996	4.00	6,088	5.16	7,866
50	1.27	1,544	2.51	3,056	4.10	4,994	4.99	6,081	6.46	7,866
60	1.52	1,542	3.01	3,054	4.92	4,992	5.98	6,076	7.75	7,866
70	1.77	1,541	3.51	3,052	5.73	4,991	6.98	6,073	9.04	7,866
80	2.02	1,540	4.01	3,051	6.55	4,990	7.97	6,070	10.33	7,866
90	2.27	1,539	4.51	3,050	7.37	4,990	8.96	6,068	11.62	7,866
100	2.44	1,489	4.85	2,953	7.93	4,831	9.63	5,870	12.91	7,866
110	2.61	1,445	5.18	2,868	8.47	4,692	10.29	5,701	14.20	7,866
120	2.77	1,406	5.50	2,793	9.00	4,568	10.93	5,551	15.49	7,866
130	2.93	1,371	5.81	2,725	9.51	4,457	11.56	5,417	16.78	7,866
140	3.08	1,340	6.12	2,664	10.01	4,357	12.16	5,294	18.08	7,866
150	3.23	1,311	6.42	2,609	10.50	4,265	12.76	5,182	19.37	7,866
160	3.37	1,284	6.72	2,557	10.98	4,181	13.35	5,082	20.59	7,839
170	3.52	1,260	7.00	2,510	11.45	4,103	13.92	4,987	21.43	7,681
180	3.66	1,238	7.29	2,467	11.91	4,031	14.48	4,902	22.26	7,536
190	3.79	1,217	7.57	2,426	12.36	3,965	15.03	4,821	23.08	7,401
200	3.93	1,197	7.84	2,388	12.81	3,903	15.58	4,745	23.88	7,273
210	4.06	1,179	8.11	2,353	13.25	3,844	16.11	4,673	24.66	7,154
220	4.19	1,161	8.38	2,319	13.68	3,789	16.64	4,607	25.43	7,043
230	4.32	1,145	8.64	2,287	14.11	3,737	17.16	4,546	26.19	6,939
240	4.45	1,129	8.89	2,258	14.53	3,689	17.67	4,485	26.94	6,840
250	4.57	1,115	9.15	2,230	14.95	3,643	18.17	4,429	27.67	6,744
260	4.70	1,101	9.40	2,203	15.36	3,599	18.67	4,376	28.40	6,654
270	4.82	1,088	9.65	2,178	15.76	3,556	19.17	4,326	29.12	6,571
280	4.94	1,075	9.89	2,153	16.16	3,517	19.67	4,279	29.82	6,488
290	5.06	1,063	10.14	2,130	16.56	3,479	20.14	4,232	30.52	6,412
300	5.18	1,052	10.38	2,108	16.95	3,442	20.62	4,188	31.21	6,339
310	5.30	1,041	10.62	2,087	17.34	3,408	21.10	4,147	31.88	6,266
320	5.41	1,031	10.85	2,066	17.72	3,374	21.57	4,106	32.57	6,200
330	5.53	1,020	11.08	2,046	18.10	3,342	22.02	4,065	33.23	6,135
340	5.64	1,011	11.32	2,029	18.48	3,311	22.47	4,027	33.89	6,073
350	5.75	1,001	11.55	2,011	18.85	3,282	22.94	3,993	34.53	6,011
360	5.86	993	11.77	1,992	19.22	3,252	23.39	3,958	35.17	5,953
370	5.97	984	12.00	1,976	19.59	3,225	23.83	3,924	35.83	5,899
380	6.08	975	12.23	1,960	19.95	3,198	24.28	3,893	36.00	5,772
390	6.19	967	12.44	1,944	20.09	3,138	24.72	3,862	36.00	5,624
400	6.30	959	12.66	1,929	20.09	3,060	25.15	3,831	36.00	5,483

Straight Sided Spline Input

Output RPM	Double Reduction											
	203HMTP25 6B SAE-A2		207HMTP15 6B SAE-A2		207HMTP25 6B SAE-A2		215HMTP25 6B SAE-A2		307HMTP25 6B SAE-A2		315HMTP25 6B SAE-A2	
	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)	Input HP	Output Torque (lb-ins)
1	0.09	5,785	0.15	8,860	0.15	8,860	0.25	14,994	0.46	27,739	0.56	34,078
5	0.59	7,134	0.93	11,285	0.93	11,285	1.49	18,202	2.49	30,349	3.05	37,167
10	1.09	6,630	1.72	10,483	1.72	10,483	2.80	17,033	4.82	29,379	6.10	37,167
20	2.08	6,342	3.29	10,029	3.29	10,029	5.32	16,218	9.24	28,133	11.83	36,052
30	3.08	6,253	4.87	9,884	4.87	9,884	7.87	15,975	13.48	27,385	17.28	35,083
40	4.06	6,186	6.42	9,774	6.42	9,774	10.37	15,791	16.84	25,646	22.57	34,370
50	4.73	5,765	7.86	9,581	7.71	9,398	12.49	15,225	19.69	23,987	27.75	33,810
60	5.34	5,423	8.93	9,071	8.76	8,898	14.20	14,414	22.36	22,708	32.58	33,082
70	5.86	5,102	9.95	8,661	9.76	8,496	15.81	13,763	24.91	21,684	36.08	31,406
80	6.35	4,833	10.93	8,320	10.72	8,162	17.36	13,222	27.35	20,831	39.44	30,037
90	-	-	11.87	8,032	-	-	-	-	-	-	-	-
100	-	-	12.77	7,782	-	-	-	-	-	-	-	-
110	-	-	13.65	7,563	-	-	-	-	-	-	-	-
120	-	-	14.51	7,368	-	-	-	-	-	-	-	-
130	-	-	15.35	7,193	-	-	-	-	-	-	-	-

HMTP TorqTaper Plus Unit Sizes 107-315



UNIT NO.	HYDRAULIC MOTOR MOUNTING STYLES							
	6B		9T		13T		14T	
	A	B	A	B	A	B	A	B
107	1.03	2.38	0.64	1.89	-	-	-	-
115	1.01	2.36	0.62	1.87	1.28	2.15	-	-
203	1.06	2.37	0.73	1.98	1.12	1.93	1.40	2.92
207	1.10	2.41	-	-	1.16	1.97	1.39	2.91
215	1.02	2.39	-	-	0.91	2.10	1.43	2.94
307	1.06	2.43	-	-	-	-	1.47	2.98
315	1.13	2.50	-	-	-	-	1.54	3.05

HMTMP TorqTaper Plus Unit Sizes 107-315

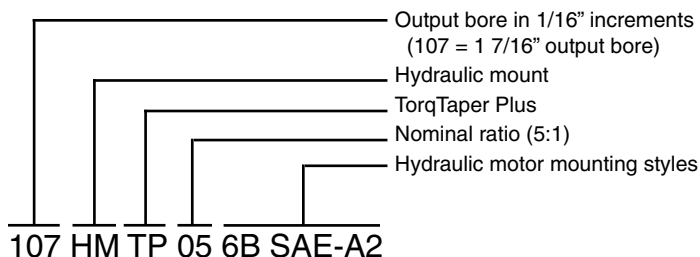
PART NO.	DIMENSIONS IN INCHES																	
	A	B	C	D	E	F	G	H	H1	J	K	L	MC	O	O2	P	P1	PF
107HMTMP	9.76	12.07	4.88	4.88	7.19	10.07	7.75	3.25	3.00	0.63	5.52	7.89	1.75	4.25	4.21	0.90	1.84	1.14
115HMTMP	11.00	14.08	5.50	5.50	8.58	11.78	8.69	4.13	3.50	0.75	5.99	8.36	1.88	4.48	4.45	0.90	1.83	1.14
203HMTMP	12.88	16.16	6.44	6.44	9.72	13.66	10.38	4.50	3.75	0.87	7.07	9.43	1.88	5.01	4.99	0.89	1.83	1.32
207HMTMP	14.50	16.47	7.25	7.25	11.22	15.73	11.76	4.88	4.25	1.01	7.39	9.75	1.88	5.14	5.19	0.89	1.86	1.51
215HMTMP	16.25	20.88	8.13	8.13	12.76	18.07	13.44	5.31	4.75	1.07	8.24	10.85	1.88	5.89	5.74	1.02	1.96	1.51
307HMTMP	19.04	24.37	9.52	9.52	14.85	21.00	15.67	6.44	5.69	1.25	9.27	12.57	2.25	6.58	6.61	1.36	2.75	1.81
315HMTMP	19.90	26.35	9.95	9.95	16.40	23.02	16.57	7.13	6.70	1.25	10.51	14.50	2.75	7.51	7.61	1.73	3.25	2.22

PART NO.	DIMENSIONS IN INCHES														
	Q	R	RF	S	SF	T	TF	W	WF	Y	AA		BOLT SIZE	MAX. OUTPUT BORE	WT. LBS.
											MIN.	MAX.			
107HMTMP	4.24	1.18	0.36	3.77	2.50	3.95	3.38	7.88	1.44	2.73	24.00	30.00	3/8	1 7/16	58
115HMTMP	4.51	1.35	0.36	4.36	2.50	4.56	3.38	9.14	1.44	3.12	24.00	30.00	3/8	1 15/16	79
203HMTMP	5.04	1.48	0.42	5.26	2.50	5.46	3.50	10.94	1.72	3.64	24.00	30.00	3/8	2 3/16	120
207HMTMP	5.57	1.63	0.48	6.08	3.00	6.29	4.25	12.68	2.19	4.16	27.00	33.00	7/16	2 7/16	162
215HMTMP	6.24	2.12	0.48	7.01	3.00	7.32	4.25	14.19	2.19	4.65	27.00	33.00	7/16	2 15/16	234
307HMTMP	6.79	2.25	0.61	7.78	4.00	8.10	5.38	17.00	2.78	5.58	29.00	35.00	1/2	3 7/16	365
315HMTMP	8.05	2.63	0.72	8.53	4.75	8.93	6.50	18.12	3.63	6.20	29.50	35.50	5/8	3 15/16	473

PART NO.	DIMENSIONS IN INCHES									
	M	M2	N	AB2	AB4	AC	AD	SPLINE DATA ★		
								NT	DP	OD
107HMTMP 6B SAE-A2	2.18	1.60	3.08	4.19	-	0.50	3.25	6	-	1.00
107HMTMP 9T SAE-A2	2.18	1.60	3.08	4.19	-	0.38	3.25	9	16/32	.609
107HMTMP 13T SAE-B2	2.66	2.08	3.56	5.75	5.00	0.50	4.00	13	16/32	.875
115HMTMP 6B SAE-A2	2.18	1.60	3.08	4.19	-	0.50	3.25	6	-	1.00
115HMTMP 9T SAE-A2	2.18	1.60	3.08	4.19	-	0.38	3.25	9	16/32	.609
115HMTMP 13T SAE-B2	2.66	2.08	3.56	5.75	5.00	0.50	4.00	13	16/32	.875
203HMTMP 6B SAE-A2	2.68	2.14	3.58	4.19	-	0.50	3.25	6	-	1.00
203HMTMP 9T SAE-A2	2.68	2.14	3.58	4.19	-	0.38	3.25	9	16/32	.609
203HMTMP 13T SAE-B2	2.87	2.33	3.77	5.75	5.00	0.50	4.00	13	16/32	.875
203HMTMP 14T SAE-C4	3.18	2.64	4.08	6.38	-	0.50	5.00	14	12/24	1.234
207HMTMP 6B SAE-A2	2.62	2.07	3.52	4.19	-	0.50	3.25	6	-	1.00
207HMTMP 13T SAE-B2	2.81	2.26	3.71	5.75	5.00	0.50	4.00	13	16/32	.875
207HMTMP 14T SAE-C4	3.12	2.57	4.02	6.38	-	0.50	5.00	14	12/24	1.234
215HMTMP 6B SAE-A2	2.69	2.12	3.72	4.19	-	0.50	3.25	6	-	1.00
215HMTMP 13T SAE-B2	2.68	2.11	3.71	5.75	5.00	0.50	4.00	13	16/32	.875
215HMTMP 14T SAE-C4	3.24	2.67	4.27	6.38	-	0.50	5.00	14	12/24	1.234
307HMTMP 6B SAE-A2	2.29	1.67	3.65	4.19	-	0.50	3.25	6	-	1.00
307HMTMP 14T SAE-C4	2.84	2.22	4.20	6.38	-	0.50	5.00	14	12/24	1.234
315HMTMP 6B SAE-A2	1.92	1.29	3.65	4.19	-	0.50	3.25	6	-	1.00
315HMTMP 14T SAE-C4	2.47	1.84	4.20	6.38	-	0.50	5.00	14	12/24	1.234

★ NT - Number of spline teeth.
DP - Involute spline diametral pitch.
OD - Internal spline major outside diameter.

Part Number Explanation



Innovative C-Face Motor Connections

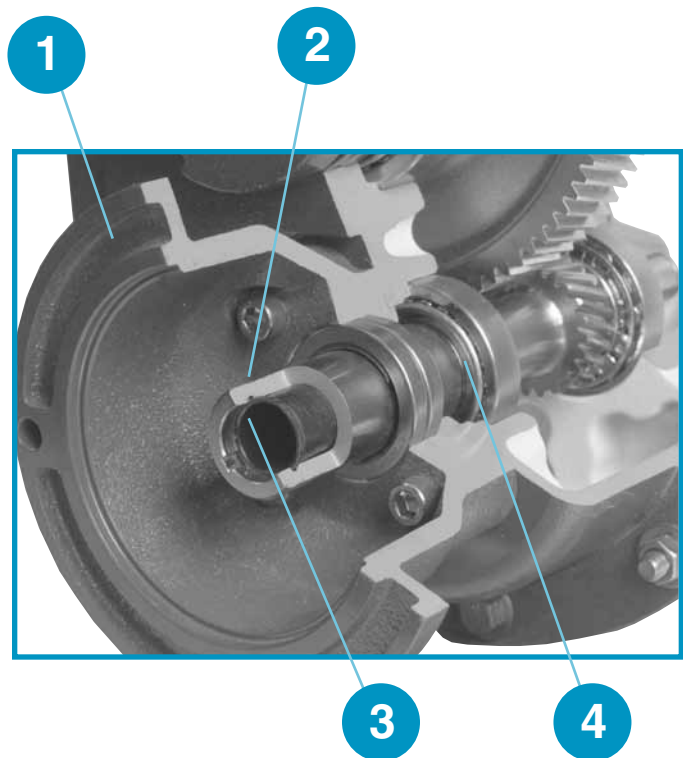


Browning C-Face TorqTaper Plus Shaft Mount Reducers

CMTP

Experience the latest in technology with the new C-Face TorqTaper Plus shaft mounted reducers. Emerson engineers continue to create innovative new designs to solve industry needs.

- Eliminate belt guards, belt drives and motor mounts
- Combine with Intelligear for variable speed control
- Innovative Emerson C-Face motor connections
- Patented mounting system, barrier seal system and increased ratings



1. Rugged C-Face adapters — designed for standard NEMA frame sizes
2. Metal key — provides positive torque transmission
3. Non metallic quill liner — eliminates fretting and allows for easier motor removal
4. Bearing supported quill input — minimizes shaft wobble and increases seal life

Ordering Information

Example No. 1

Units 107 - 315 C-face Shaft Mounts

A C-face shaft mount reducer is required for a grain bucket elevator, which will be uniformly loaded and operated 8 hours per day at 50 rpm.

The elevator requires 20 hp. The reducer will be mounted on the elevator drive pulley shaft with a 3 7/16" diameter extension.

1. Determine the Load Classification

From the *AGMA Application Classification Numbers* section, note the AGMA Class Number is II for a bucket elevator operating 3 to 10 hours per day.

2. Determine the Speed Reducer Required

From the *C-face Reducer Selection Chart* section, there are two tables for Class II Service. Locate the 50 rpm row in each table. Read across the row to find a column with a rating of 20 hp or greater. Read up the column to determine the basic reducer size that corresponds to the design hp. For this application, a 315CMTP05, 307CMTP09, 307CMTP15, 307CMTP25 or a 307CMTP35 may be used. Generally, the smaller case size is more economical, but the total system should be considered. For this example, select a 307CMTP35. When used with a 1750 rpm C-face motor, the 35:1 ratio will provide an output speed closest to the desired 50 rpm speed. Other ratios may be used, but to obtain the desired speed a variable frequency drive may be required. (Note: The motor and

variable frequency drives are not included with the reducer.)

From the *CMTP Availability Table*, locate the row with the basic reducer size. At the top of the table, locate the column with the C-face motor frame designation required. The complete reducer part number is at the intersection of the selected row and column. For this example, a 307CMTP35 Q250 is selected.

A 307TBP307 bushing is required to mount the reducer to a 3 7/16" shaft.

The 307TAP-H kit is required to restrain the gearbox in operation.

3. List Components

- 1, **307CMTP35 Q250** reducer
- 1, **307TBP307** bushing
- 1, **307TAP-H** torque arm kit
- 1, C-face motor purchased separately ▲

▲ Refer to C-Face standard and stainless steel motors section for product information.

CMTP Availability Table

PART NO.	RATIO	Q56	Q140	Q180	Q210	Q250
107CMTP05	5.0588	107CMTP05 Q56	107CMTP05 Q140	-	-	-
107CMTP09	8.8205	107CMTP09 Q56	107CMTP09 Q140	-	-	-
107CMTP15	14.8276	107CMTP15 Q56	107CMTP15 Q140	-	-	-
107CMTP25	24.7250	107CMTP25 Q56	107CMTP25 Q140	-	-	-
107CMTP35	34.8778	107CMTP35 Q56	107CMTP35 Q140	-	-	-
115CMTP05	4.7000	115CMTP05 Q56	115CMTP05 Q140	115CMTP05 Q180	-	-
115CMTP09	8.8125	115CMTP09 Q56	115CMTP09 Q140	115CMTP09 Q180	-	-
115CMTP15	14.7759	115CMTP15 Q56	115CMTP15 Q140	115CMTP15 Q180	-	-
115CMTP25	24.8558	115CMTP25 Q56	115CMTP25 Q140	115CMTP25 Q180	-	-
115CMTP35	34.9487	115CMTP35 Q56	115CMTP35 Q140	115CMTP35 Q180	-	-
203CMTP05	5.1053	203CMTP05 Q56	203CMTP05 Q140	203CMTP05 Q180	203CMTP05 Q210	-
203CMTP09	8.8732	203CMTP09 Q56	203CMTP09 Q140	203CMTP09 Q180	203CMTP09 Q210	-
203CMTP15	14.9231	203CMTP15 Q56	203CMTP15 Q140	203CMTP15 Q180	203CMTP15 Q210	-
203CMTP25	24.7409	203CMTP25 Q56	203CMTP25 Q140	203CMTP25 Q180	203CMTP25 Q210	-
203CMTP35	34.6429	203CMTP35 Q56	203CMTP35 Q140	203CMTP35 Q180	203CMTP35 Q210	-
207CMTP05	5.1579	207CMTP05 Q56	207CMTP05 Q140	207CMTP05 Q180	207CMTP05 Q210	-
207CMTP09	8.8308	207CMTP09 Q56	207CMTP09 Q140	207CMTP09 Q180	207CMTP09 Q210	-
207CMTP15	14.7870	207CMTP15 Q56	207CMTP15 Q140	207CMTP15 Q180	207CMTP15 Q210	-
207CMTP25	24.7094	207CMTP25 Q56	207CMTP25 Q140	207CMTP25 Q180	207CMTP25 Q210	-
207CMTP35	35.0000	207CMTP35 Q56	207CMTP35 Q140	207CMTP35 Q180	207CMTP35 Q210	-
215CMTP05	5.1667	215CMTP05 Q56	215CMTP05 Q140	215CMTP05 Q180	215CMTP05 Q210	215CMTP05 Q250
215CMTP09	8.8482	215CMTP09 Q56	215CMTP09 Q140	215CMTP09 Q180	215CMTP09 Q210	215CMTP09 Q250
215CMTP15	14.8187	215CMTP15 Q56	215CMTP15 Q140	215CMTP15 Q180	215CMTP15 Q210	215CMTP15 Q250
215CMTP25	24.8502	215CMTP25 Q56	215CMTP25 Q140	215CMTP25 Q180	215CMTP25 Q210	215CMTP25 Q250
215CMTP35	34.8154	215CMTP35 Q56	215CMTP35 Q140	215CMTP35 Q180	215CMTP35 Q210	215CMTP35 Q250
307CMTP05	5.1111	307CMTP05 Q56	307CMTP05 Q140	307CMTP05 Q180	307CMTP05 Q210	307CMTP05 Q250
307CMTP09	8.7925	307CMTP09 Q56	307CMTP09 Q140	307CMTP09 Q180	307CMTP09 Q210	307CMTP09 Q250
307CMTP15	14.9704	307CMTP15 Q56	307CMTP15 Q140	307CMTP15 Q180	307CMTP15 Q210	307CMTP15 Q250
307CMTP25	24.7692	307CMTP25 Q56	307CMTP25 Q140	307CMTP25 Q180	307CMTP25 Q210	307CMTP25 Q250
307CMTP35	34.8791	307CMTP35 Q56	307CMTP35 Q140	307CMTP35 Q180	307CMTP35 Q210	307CMTP35 Q250
315CMTP05	4.8824	315CMTP05 Q56	315CMTP05 Q140	315CMTP05 Q180	315CMTP05 Q210	315CMTP05 Q250
315CMTP09	8.8620	315CMTP09 Q56	315CMTP09 Q140	315CMTP09 Q180	315CMTP09 Q210	315CMTP09 Q250
315CMTP15	14.5744	315CMTP15 Q56	315CMTP15 Q140	315CMTP15 Q180	315CMTP15 Q210	315CMTP15 Q250
315CMTP25	24.4118	315CMTP25 Q56	315CMTP25 Q140	315CMTP25 Q180	315CMTP25 Q210	315CMTP25 Q250
315CMTP35	34.0513	315CMTP35 Q56	315CMTP35 Q140	315CMTP35 Q180	315CMTP35 Q210	315CMTP35 Q250

Note: See "Application Considerations" on back cover.

Ordering Information

Example No. 2

Units 107 - 315 C-face Screw Conveyor Drive

A C-face shaft mount reducer is required for a screw conveyor transporting rice. The conveyor will be uniformly loaded and operates 18 to 24 hours per day. The screw is 12" diameter and has a 2" bore with three holes. The conveyor requires 5 hp and will operate at 70 rpm. The application requires a waste pack.

1. Determine the Load Classification

From the *AGMA Application Classification Numbers* section, note the AGMA Class Number is II for a uniformly loaded or fed screw conveyor operating over 10 hours per day.

2. Determine the Speed Reducer Required

From the *C-face Reducer Selection Chart* section, there are two tables for Class II Service. Locate the 70 rpm row in each table. Read across the row to find a column with a rating of 5 hp or greater. Read up the column to determine the basic reducer size that corresponds to the design hp. For this application, a 115CMT05, 115CMT09, 115CMT15 or a 115CMT25 may be used. For this example, select a 115CMT25. When used with a 1750 rpm C-face motor, the 25:1 ratio will provide an output speed closest to the desired 70 rpm speed. Other ratios may be used, but to obtain the desired speed a variable frequency drive may be required. (Note: The motor and variable frequency drives are not included with the reducer.)

From the *CMT Availability Table*, locate the row with the basic reducer size. At the top of the table, locate the column with the C-face motor frame designation required. The complete reducer part number is at the intersection of the selected row and column. For this example, a 115CMT25 Q180 is selected.

3. Establish Sealing Required for Screw Conveyor

The waste pack cartridge is well suited for dry materials, such as rice. Specify the optional waste pack cartridge for the 115 shaft mount selected. From the *Accessories* section, select part 115-203WPP.

4. Select the Screw Conveyor Adapter and Screw Conveyor Shaft

Using the basic reducer size, required drive shaft and screw diameter for the selection; refer to *Screw Conveyor Drives* in the *Accessories* section. Note the specification was for a 2" drive shaft with a three hole arrangement for the 12" diameter screw. From the table select the 115SCA-P and the 115DSP200-3.

5. Select the Trough End

From the *Screw Conveyor Trough Ends Sizes 107-407* table, select the SCTE12 X 2 trough end.

6. List of Components:

- 1, 115CMT25 Q180 reducer
- 1, 115SCA-P screw conveyor adapter
- 1, 115DSP200-3 screw conveyor drive shaft kit
- 1, 115-203WPP waste pack cartridge
- 1, SCTE12X2 trough end
- 1, C-face motor (separate) ▲

▲ Refer to C-Face standard and stainless steel motors section for product information.

CMT Exact Ratios

Reducer Size	Ratio Symbols				
	05	09	15	25	35
107	5.0588	8.8205	14.8276	24.7250	34.8778
115	4.7000	8.8125	14.7759	24.8558	34.9487
203	5.1053	8.8732	14.9231	24.7409	34.6429
207	5.1579	8.8308	14.7870	24.7094	35.0000
215	5.1667	8.8482	14.8187	24.8502	34.8154
307	5.1111	8.7925	14.9704	24.7692	34.8791
315	4.8824	8.8620	14.5744	24.4118	34.0513

Classification Numbers

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
AGITATORS (Mixers)			
Pure Liquids	I	I	II
Liquids and Solids	I	II	II
Liquids - Variable Density	I	II	II
BLOWERS			
Centrifugal & Vane	I	I	II
Lobe	I	II	II
Vane	I	II	II
BREWING AND DISTILLING			
Bottling Machinery	I	I	II
Brew Kettles - Continuous Duty	II	II	II
Cookers - Continuous Duty	II	II	II
Mash Tubs - Continuous Duty	II	II	II
Scale Hopper - Frequent Starts	II	II	II
CAN FILLING MACHINES	I	I	II
CAR DUMPERS	II	III	III
CAR PULLERS	I	II	II
CLARIFIERS	I	I	II
CLASSIFIERS	I	II	II
CLAY WORKING MACHINERY			
Brick Presses	II	III	III
Brique Machine	II	III	III
Pug Mills	I	II	II
COMPACTORS	◆	◆	◆
COMPRESSORS			
Centrifugal	I	I	II
Lobe	I	II	II
Reciprocating, Multi-Cylinder	II	II	III
Reciprocating, Single-Cylinder	III	III	III
CONVEYORS - GENERAL PURPOSE			
Includes Apron, Assembly, Belt, Bucket			
Chain, Flight, Oven, and Screw			
Uniformly Loaded or Fed	I	I	II
Heavy Duty - Not Uniformly Fed	I	II	II
Severe Duty - Reciprocating or Shaker	II	III	III
CRANES			
Dry Dock			
Main Hoist	◆	◆	◆
Auxiliary Hoist	◆	◆	◆
Boom Hoist	◆	◆	◆
Slewing Drive	◆	◆	◆
Traction Drive	◆	◆	◆
Container			
Main Hoist	◆	◆	◆
Boom Hoist	◆	◆	◆
Trolley Drive			
Gantry Drive	◆	◆	◆
Traction Drive	◆	◆	◆
Mill Duty			
Main Hoist	◆	◆	◆
Auxiliary	◆	◆	◆
Bridge Travel	◆	◆	◆
Trolley Travel	◆	◆	◆
Industrial Duty			
Main	◆	◆	◆
Auxiliary	◆	◆	◆
Bridge Travel	◆	◆	◆
Trolley Travel	◆	◆	◆
CRUSHERS			
Stone or Ore	III	III	III
DREDGES			
Cable Reels	II	II	II
Conveyors	II	II	II
Cutter Head Drives	III	III	III
Pumps	III	III	III
Screen Drives	III	III	III
Stackers	II	II	II
Winches	II	II	II
ELEVATORS			
Bucket	I	II	II
Centrifugal Discharge	I	I	II
Escalators	I	I	II
Freight	I	II	II
Gravity Discharge	I	I	II
EXTRUDERS			
General	II	II	II
Plastics			
Variable Speed Drive	III	III	III
Fixed Speed Drive	III	III	III
Rubber			
Continuous Screw Operation	III	III	III
Intermittent Screw Operation	III	III	III
FANS			
Centrifugal	I	I	II

Application	AGMA Class Numbers		
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day
FANS (Cont'd)			
Cooling Towers	III	III	III
Forced Draft	II	II	II
Induced Draft	II	II	II
Industrial & Mine	II	II	II
FEEDERS			
Apron	I	II	II
Belt	I	II	II
Disc	I	I	II
Reciprocating	II	III	III
Screw	I	II	II
FOOD INDUSTRY			
Cereal Cooker	I	I	II
Dough Mixer	II	II	II
Meat Grinders	II	II	II
Slicers	I	II	II
GENERATORS AND EXCITERS	II	II	II
HAMMER MILLS	III	III	III
HOISTS			
Heavy Duty	◆	◆	◆
Medium Duty	◆	◆	◆
Skip Hoist	◆	◆	◆
LAUNDRY TUMBLERS	II	II	II
LAUNDRY WASHERS	II	II	III
LUMBER INDUSTRY			
Barkers			
Spindle Feed	II	II	II
Main Drive	III	III	III
Conveyors			
Burner	II	II	II
Main or Heavy Duty	II	II	II
Main Log	III	III	III
Re-saw, Merry-Go-Round	II	II	II
Slab	III	III	III
Transfer	II	II	II
Chains			
Floor	II	II	II
Green	II	II	III
Cut-Off-Saws			
Chain	II	II	III
Drag	II	II	III
Debarking Drums	III	III	III
Feeds			
Edger	II	II	II
Gang	II	III	III
Trimmer	II	II	II
Log Deck	III	III	III
Log Hauls - Incline - Well Type	III	III	III
Log Turning Devices	III	III	III
Planer Feed	II	II	II
Planer Tilting Hoists	II	II	II
Rolls - Live-Off Brg - Roll Cases	III	III	III
Sorting Table	II	II	II
Tipple Hoist	II	II	II
Transfer			
Chain	II	II	III
Craneway	II	II	II
Tray Drives	II	II	II
Veneer Lathe Drives	II	II	II
METAL MILLS			
Draw Bench Carriage and Main Drive	II	II	II
Runout Table			
Non-Reversing			
Group Drives	II	II	II
Individual Drives	III	III	III
Reversing	III	III	III
Slab Pushers	II	II	II
Shears	III	III	III
Wire Drawing	II	II	II
Wire Winding Machine	II	II	II
METAL STRIP PROCESSING MACHINERY			
Bridges	II	II	II
Collers & Uncoilers	I	I	II
Edge Trimmers	I	II	II
Flatteners	II	II	II
Loopers (Accumulators)	I	I	I
Pinch Rolls	II	II	II
Scrap Choppers	II	II	II
Shears	III	III	III
Slitters	I	II	II
MILLS, ROTARY TYPE			
Ball & Rod			
Spur Ring Gear	III	III	III
Helical Ring Gear	II	II	II
Direct Connected	III	III	III

Classification Numbers

Application	AGMA Class Numbers			Application	AGMA Class Numbers			CMTP
	Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day		Up to 3 Hours Per Day	3-10 Hours Per Day	Over 10 Hours Per Day	
MILLS, ROTARY TYPE (Cont'd)				RUBBER INDUSTRY (Cont'd)				
Cement Kilns	II	II	II	Batch Drop Mill - 2 Smooth Rolls	II	II	II	
Dryers & Coolers	II	II	II	Cracker Warmer - 2 Roll, 1 Corrugated Roll	III	III	III	
PAPER MILLS ¹⁾				Cracker - 2 Corrugated Rolls	III	III	III	
Agitator (Mixer)	II	II	II	Holding, Feed & Blend Mill - 2 Rolls	II	II	II	
Agitator For Pure Liquors	II	II	II	Refiner - 2 Rolls	II	II	II	
Barking Drums	III	III	III	Calendars	II	II	II	
Barkers - Mechanical	III	III	III	SAND MULLER	II	II	II	
Beater	II	II	II	SEWAGE DISPOSAL EQUIPMENT				
Breaker Stack	II	II	II	Bar Screens	II	II	II	
Calendar ²⁾	II	II	II	Chemical Feeder	II	II	II	
Chipper	III	III	III	Dewatering Screens	II	II	II	
Chip Feeder	II	II	II	Scum Breakers	II	II	II	
Coating Rolls	II	II	II	Slow or Rapid Mixers	II	II	II	
Conveyors				Sludge Collectors	II	II	II	
Chip, Bark, Chemical	II	II	II	Thickener	II	II	II	
Log (Including Slab)	III	III	III	Vacuum Filters	II	II	II	
Couch Rolls	II	II	II	SCREENS				
Cutter	III	III	III	Air Washing	I	I	II	
Cylinder Molds	II	II	II	Rotary - Stone or Gravel	II	II	II	
Dryers ²⁾				Traveling Water Intake	I	I	I	
Paper Machine	II	II	II	SCREW CONVEYORS				
Conveyor Type	II	II	II	Uniformly Loaded or Fed	I	I	II	
Embosser	II	II	II	Heavy Duty	I	II	II	
Extruder	II	II	II	SUGAR INDUSTRY				
Fourdrinier Rolls (Includes Lump Breaker, Dandy Roll, Wire Turning, and Return Rolls)	II	II	II	Beet Slicer	III	III	III	
Jordan	II	II	II	Cane Knives	II	II	II	
Kiln Drive	II	II	II	Crushers	II	II	II	
Mt. Hope Roll	II	II	II	Mills (Low Speed End)	III	III	III	
Paper Rolls	II	II	II	TEXTILE INDUSTRY				
Platter	II	II	II	Batchers	II	II	II	
Presses - Felt Suction	II	II	II	Calendars	II	II	II	
Pulper	III	III	III	Cards	II	II	II	
Pumps - Vacuum	II	II	II	Dry Cans	II	II	II	
Reel (Surface - Type)	II	II	II	Dyeing Machinery	II	II	II	
Screens				Looms	II	II	II	
Chip	II	II	II	Mangles	II	II	II	
Rotary	II	II	II	Nappers	II	II	II	
Vibrating	III	III	III	Pads	II	II	II	
Size Press	II	II	II	Slashers	II	II	II	
Supercalendar	II	II	II	Soapers	II	II	II	
Thickener (AC Motor)	II	II	II	Spinners	II	II	II	
Thickener (DC Motor)	II	II	II	Tenter Frames	II	II	II	
Washer (AC Motor)	II	II	II	Washers	II	II	II	
Washer (DC Motor)	II	II	II	Winders	II	II	II	
Wind and Unwind Stand	I	I	I					
Winders (Surface Type)	II	II	II					
Yankee Dryers ²⁾	II	II	II					
PLASTICS INDUSTRY								
PRIMARY PROCESSING								
Intensive Internal Mixers								
Batch Mixers	III	III	III					
Continuous Mixers	II	II	II					
Batch Drop Mill - 2 Smooth Rolls	II	II	II					
Continuous Feed, Holding & Blend Mill	II	II	II					
Calendars	II	II	II					
PLASTICS INDUSTRY								
SECONDARY PROCESSING								
Blow Molders	II	II	II					
Coating	II	II	II					
Film	II	II	II					
Pipe	II	II	II					
Pre-Plasticizers	II	II	II					
Rods	II	II	II					
Sheet	II	II	II					
Tubing	II	II	II					
PULLERS - BARGE HAUL	II	II	II					
PUMPS								
Centrifugal	I	I	II					
Proportioning	II	II	II					
Reciprocating								
Single Acting, 3 or more Cylinders	II	II	II					
Double Acting, 2 or more Cylinders	II	II	II					
Rotary								
Gear Type	I	I	II					
Lobe	I	I	II					
Vane	I	I	II					
RUBBER INDUSTRY								
Intensive Internal Mixers								
Batch Mixers	III	III	III					
Continuous Mixers	II	II	II					
Mixing Mill								
2 Smooth Rolls	II	II	II					
1 or 2 Corrugated Rolls	III	III	III					

Notes:

1) The Class numbers listed in the table for paper mill applications are consistent with those shown in TAPPI (Technical Association of Pulp and Paper Industry) Technical information sheet 0406-18 1967, *Service Factors for Gears on Major Equipment in the Pulp and Paper Industry*.

2) Anti-friction bearings only.

◆ Contact Application Engineering (1 800 626 2093) for the selection of an AGMA Class Numbers in these applications.



CMTP Selection Chart

Class I Service (1.0 S.F.)



Single Reduction														
Output RPM	107CMTP05		115CMTP05		203CMTP05		207CMTP05		215CMTP05		307CMTP05		315CMTP05	
	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)
5	0.26	3,184	0.52	6,310	0.85	10,324	1.04	12,555	1.63	19,721	2.45	29,661	3.14	38,026
10	0.53	3,184	1.04	6,310	1.71	10,324	2.08	12,555	3.26	19,721	4.90	29,661	6.28	38,026
20	1.05	3,184	2.09	6,310	3.41	10,324	4.15	12,555	6.52	19,721	9.80	29,661	12.57	38,026
30	1.58	3,184	3.13	6,310	5.12	10,324	6.23	12,555	9.78	19,721	14.71	29,661	18.85	38,026
40	2.11	3,184	4.17	6,310	6.83	10,324	8.30	12,555	13.04	19,721	19.61	29,661	25.14	38,026
50	2.63	3,184	5.21	6,310	8.53	10,324	10.38	12,555	16.30	19,721	24.51	29,661	31.42	38,026
60	3.16	3,184	6.26	6,310	10.24	10,324	12.45	12,555	19.56	19,721	29.41	29,661	37.71	38,026
70	3.68	3,184	7.30	6,310	11.94	10,324	14.53	12,555	22.82	19,721	34.32	29,661	43.99	38,026
80	4.21	3,184	8.34	6,310	13.65	10,324	16.60	12,555	26.08	19,721	39.22	29,661	50.28	38,026
90	4.74	3,184	9.39	6,310	15.36	10,324	18.68	12,555	29.34	19,721	44.12	29,661	56.25	37,815
100	5.09	3,081	10.10	6,110	16.52	9,996	20.07	12,145	31.34	18,959	46.88	28,361	56.25	34,034
110	5.44	2,990	10.79	5,935	17.65	9,707	21.44	11,795	33.41	18,374	46.88	25,783	56.25	30,940
120	5.77	2,910	11.46	5,779	18.75	9,451	22.78	11,484	35.40	17,850	46.88	23,634	56.25	28,361
130	6.10	2,837	12.11	5,638	19.81	9,221	24.08	11,207	37.35	17,383	46.88	21,816	56.25	26,180
140	6.41	2,772	12.75	5,512	20.86	9,014	25.34	10,952	37.50	16,206	46.88	20,258	56.25	24,310
150	6.72	2,712	13.38	5,397	20.93	8,440	26.58	10,722	37.50	15,126	46.88	18,908	56.25	22,689
160	7.03	2,657	13.99	5,290	20.93	7,913	27.80	10,514	37.50	14,181	46.88	17,726	56.25	21,271
170	7.33	2,607	14.59	5,193	20.93	7,447	28.99	10,319	37.50	13,346	46.88	16,683	56.25	20,020
180	7.62	2,561	15.18	5,104	20.93	7,034	30.17	10,142	37.50	12,605	46.88	15,756	56.25	18,908
190	7.91	2,517	15.19	4,836	20.93	6,663	31.32	9,975	37.50	11,942	46.88	14,927	56.25	17,912
200	8.19	2,477	15.19	4,595	20.93	6,330	32.45	9,817	37.50	11,345	46.88	14,181	56.25	17,017
210	8.46	2,439	15.19	4,376	20.93	6,029	32.81	9,454	37.50	10,804	46.88	13,505	56.25	16,206
220	8.74	2,402	15.19	4,177	20.93	5,755	32.81	9,024	37.50	10,313	46.88	12,891	56.25	15,470
230	9.01	2,369	15.19	3,995	20.93	5,505	32.81	8,632	37.50	9,865	46.88	12,331	56.25	14,797
240	9.27	2,337	15.19	3,829	20.93	5,275	32.81	8,272	37.50	9,454	46.88	11,817	56.25	14,181
250	9.53	2,307	15.19	3,676	20.93	5,064	32.81	7,941	37.50	9,076	46.88	11,345	56.25	13,613
260	9.79	2,278	15.19	3,534	20.93	4,869	32.81	7,636	37.50	8,727	46.88	10,908	56.25	13,090
270	10.05	2,251	15.19	3,403	20.93	4,689	32.81	7,353	37.50	8,403	46.88	10,504	56.25	12,605
280	10.30	2,225	15.19	3,282	20.93	4,522	32.81	7,090	37.50	8,103	46.88	10,129	56.25	12,155
290	10.55	2,200	15.19	3,169	20.93	4,366	32.81	6,846	37.50	7,824	46.88	9,780	56.25	11,736
300	10.79	2,176	15.19	3,063	20.93	4,220	32.81	6,618	37.50	7,563	46.88	9,454	56.25	11,345
310	11.04	2,154	15.19	2,964	20.93	4,084	32.81	6,404	37.50	7,319	46.88	9,149	56.25	10,979
320	11.28	2,132	15.19	2,872	20.93	3,956	32.81	6,204	37.50	7,090	46.88	8,863	56.25	10,635
330	11.52	2,111	15.19	2,785	20.93	3,837	32.81	6,016	37.50	6,875	46.88	8,594	56.25	10,313
340	11.75	2,091	15.19	2,703	20.93	3,724	32.81	5,839	37.50	6,673	46.88	8,342	56.25	10,010
350	11.81	2,042	15.19	2,625	20.93	3,617	32.81	5,672	37.50	6,483	46.88	8,103	56.25	9,724
360	11.81	1,985	15.19	2,553	20.93	3,517	32.81	5,515	37.50	6,303	46.88	7,878	56.25	9,454
370	11.81	1,932	15.19	2,484	20.93	3,422	32.81	5,366	37.50	6,132	46.88	7,665	56.25	9,198
380	11.81	1,881	15.19	2,418	20.93	3,332	32.81	5,224	37.50	5,971	46.88	7,463	56.25	8,956
390	11.81	1,833	15.19	2,356	20.93	3,246	32.81	5,090	37.50	5,818	46.88	7,272	56.25	8,727
400	11.81	1,787	15.19	2,297	20.93	3,165	32.81	4,963	37.50	5,672	46.88	7,090	56.25	8,508

Class I Service (1.0 S.F.)

Double Reduction														
Output RPM	107CMTP09 107CMTP15 107CMTP25 107CMTP35		115CMTP09 115CMTP15 115CMTP25 115CMTP35		203CMTP09 203CMTP15 203CMTP25 203CMTP35		207CMTP09 207CMTP15 207CMTP25 207CMTP35		215CMTP09 215CMTP15 215CMTP25 215CMTP35		307CMTP09 307CMTP15 307CMTP25 307CMTP35		315CMTP09 315CMTP15 315CMTP25 315CMTP35	
	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)
5	0.50	6,081	0.70	8,516	1.22	14,760	1.93	23,348	3.11	37,659	5.19	62,791	5.76	69,693
10	0.97	5,853	1.31	7,919	2.27	13,718	3.58	21,689	5.82	35,241	10.05	60,784	11.52	69,693
20	1.86	5,622	2.51	7,594	4.34	13,121	6.86	20,750	11.09	33,554	19.24	58,206	23.04	69,693
30	2.72	5,483	3.71	7,492	6.41	12,937	10.14	20,450	16.39	33,053	28.09	56,660	34.56	69,693
40	3.56	5,384	4.90	7,415	8.46	12,798	13.37	20,223	21.60	32,671	36.30	54,904	46.07	69,693
50	4.38	5,305	6.08	7,352	10.48	12,685	16.56	20,037	26.74	32,360	42.43	51,349	56.25	68,067
60	5.20	5,240	7.24	7,298	12.48	12,588	19.19	19,352	31.77	32,038	46.88	47,269	56.25	56,723
70	6.00	5,184	8.39	7,251	13.76	11,892	21.38	18,477	35.39	30,588	46.88	40,516	56.25	48,619
80	6.79	5,135	9.53	7,209	14.95	11,307	23.47	17,752	37.50	28,361	46.88	35,452	56.25	42,542
90	7.57	5,092	10.67	7,171	16.09	10,815	25.49	17,136	37.50	25,210	46.88	31,513	56.25	37,815
100	8.35	5,053	11.80	7,137	17.17	10,390	27.44	16,602	37.50	22,689	46.88	28,361	56.25	34,034
110	9.12	5,017	12.92	7,104	18.30	10,066	29.33	16,134	37.50	20,626	46.88	25,783	56.25	30,940
120	9.88	4,984	14.03	7,074	19.40	9,779	31.18	15,719	37.50	18,908	46.88	23,634	56.25	28,361
130	10.64	4,953	15.14	7,046	20.46	9,521	32.81	15,271	37.50	17,453	46.88	21,816	56.25	26,180
140	11.40	4,925	15.19	6,564	20.93	9,043	32.81	14,181	37.50	16,206	46.88	20,258	56.25	24,310
150	11.81	4,765	15.19	6,126	20.93	8,440	32.81	13,235	37.50	15,126	46.88	18,908	56.25	22,689
160	11.81	4,467	15.19	5,743	20.93	7,913	32.81	12,408	37.50	14,181	46.88	17,726	56.25	21,271
170	11.81	4,204	15.19	5,405	20.93	7,447	32.81	11,678	37.50	13,346	46.88	16,683	56.25	20,020
180	11.81	3,971	15.19	5,105	20.93	7,034	32.81	11,029	37.50	12,605	46.88	15,756	56.25	18,908
190	11.81	3,762	15.19	4,836	20.93	6,663	32.81	10,449	37.50	11,942	46.88	14,927	56.25	17,912
200	11.81	3,574	15.19	4,595	20.93	6,330	32.81	9,926	37.50	11,345	46.88	14,181	56.25	17,017



CMTP Selection Chart



Class II Service (1.4 S.F.)

Single Reduction														
Output RPM	107CMTP05		115CMTP05		203CMTP05		207CMTP05		215CMTP05		307CMTP05		315CMTP05	
	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)
5	0.19	2,274	0.37	4,507	0.61	7,374	0.74	8,968	1.16	14,087	1.75	21,187	2.24	27,162
10	0.38	2,274	0.74	4,507	1.22	7,374	1.48	8,968	2.33	14,087	3.50	21,187	4.49	27,162
20	0.75	2,274	1.49	4,507	2.44	7,374	2.96	8,968	4.66	14,087	7.00	21,187	8.98	27,162
30	1.13	2,274	2.23	4,507	3.66	7,374	4.45	8,968	6.98	14,087	10.51	21,187	13.47	27,162
40	1.50	2,274	2.98	4,507	4.88	7,374	5.93	8,968	9.31	14,087	14.01	21,187	17.96	27,162
50	1.88	2,274	3.72	4,507	6.09	7,374	7.41	8,968	11.64	14,087	17.51	21,187	22.45	27,162
60	2.26	2,274	4.47	4,507	7.31	7,374	8.89	8,968	13.97	14,087	21.01	21,187	26.94	27,162
70	2.63	2,274	5.21	4,507	8.53	7,374	10.38	8,968	16.30	14,087	24.51	21,187	31.42	27,162
80	3.01	2,274	5.96	4,507	9.75	7,374	11.86	8,968	18.63	14,087	28.01	21,187	35.91	27,162
90	3.38	2,274	6.70	4,507	10.97	7,374	13.34	8,968	20.95	14,087	31.52	21,187	40.40	27,162
100	3.64	2,201	7.21	4,364	11.80	7,140	14.34	8,675	22.38	13,542	33.68	20,376	43.46	26,294
110	3.88	2,136	7.71	4,239	12.61	6,934	15.32	8,425	23.86	13,125	35.89	19,743	46.45	25,548
120	4.12	2,078	8.19	4,128	13.39	6,751	16.27	8,203	25.29	12,750	38.07	19,194	49.34	24,879
130	4.35	2,027	8.65	4,027	14.15	6,587	17.20	8,005	26.68	12,416	40.15	18,688	52.15	24,274
140	4.58	1,980	9.11	3,937	14.90	6,438	18.10	7,823	28.03	12,113	42.19	18,234	54.93	23,738
150	4.80	1,937	9.56	3,855	15.63	6,303	18.99	7,659	29.35	11,839	44.18	17,821	56.25	22,689
160	5.02	1,898	9.99	3,779	16.34	6,179	19.86	7,510	30.64	11,585	46.12	17,441	56.25	21,271
170	5.23	1,862	10.42	3,710	17.04	6,063	20.71	7,370	31.89	11,351	46.88	16,683	56.25	20,020
180	5.44	1,829	10.85	3,646	17.72	5,958	21.55	7,244	33.13	11,136	46.88	15,756	56.25	18,908
190	5.65	1,798	11.26	3,585	18.40	5,860	22.37	7,125	34.34	10,937	46.88	14,927	56.25	17,912
200	5.85	1,769	11.67	3,529	19.07	5,768	23.18	7,012	35.53	10,748	46.88	14,181	56.25	17,017
210	6.05	1,742	12.07	3,477	19.72	5,681	23.97	6,906	36.69	10,572	46.88	13,505	56.25	16,206
220	6.24	1,716	12.46	3,428	20.36	5,600	24.76	6,808	37.50	10,313	46.88	12,891	56.25	15,470
230	6.43	1,692	12.85	3,380	20.93	5,505	25.54	6,718	37.50	9,865	46.88	12,331	56.25	14,797
240	6.62	1,669	13.23	3,336	20.93	5,275	26.29	6,628	37.50	9,454	46.88	11,817	56.25	14,181
250	6.81	1,648	13.62	3,296	20.93	5,064	27.04	6,545	37.50	9,076	46.88	11,345	56.25	13,613
260	6.99	1,627	13.99	3,256	20.93	4,869	27.79	6,467	37.50	8,727	46.88	10,908	56.25	13,090
270	7.18	1,608	14.36	3,218	20.93	4,689	28.53	6,393	37.50	8,403	46.88	10,504	56.25	12,605
280	7.35	1,589	14.72	3,182	20.93	4,522	29.27	6,324	37.50	8,103	46.88	10,129	56.25	12,155
290	7.53	1,572	15.09	3,148	20.93	4,366	29.98	6,254	37.50	7,824	46.88	9,780	56.25	11,736
300	7.71	1,555	15.19	3,063	20.93	4,220	30.69	6,189	37.50	7,563	46.88	9,454	56.25	11,345
310	7.88	1,539	15.19	2,964	20.93	4,084	31.40	6,128	37.50	7,319	46.88	9,149	56.25	10,979
320	8.06	1,523	15.19	2,872	20.93	3,956	32.09	6,068	37.50	7,090	46.88	8,863	56.25	10,635
330	8.23	1,508	15.19	2,785	20.93	3,837	32.76	6,007	37.50	6,875	46.88	8,594	56.25	10,313
340	8.39	1,494	15.19	2,703	20.93	3,724	32.81	5,839	37.50	6,673	46.88	8,342	56.25	10,010
350	8.56	1,480	15.19	2,625	20.93	3,617	32.81	5,672	37.50	6,483	46.88	8,103	56.25	9,724
360	8.73	1,467	15.19	2,553	20.93	3,517	32.81	5,515	37.50	6,303	46.88	7,878	56.25	9,454
370	8.89	1,454	15.19	2,484	20.93	3,422	32.81	5,366	37.50	6,132	46.88	7,665	56.25	9,198
380	9.05	1,441	15.19	2,418	20.93	3,332	32.81	5,224	37.50	5,971	46.88	7,463	56.25	8,956
390	9.22	1,430	15.19	2,356	20.93	3,246	32.81	5,090	37.50	5,818	46.88	7,272	56.25	8,727
400	9.37	1,418	15.19	2,297	20.93	3,165	32.81	4,963	37.50	5,672	46.88	7,090	56.25	8,508



CMTP Selection Chart



Class II Service (1.4 S.F.)

Double Reduction														
Output RPM	107CMTP09 107CMTP15 107CMTP25 107CMTP35		115CMTP09 115CMTP15 115CMTP25 115CMTP35		203CMTP09 203CMTP15 203CMTP25 203CMTP35		207CMTP09 207CMTP15 207CMTP25 207CMTP35		215CMTP09 215CMTP15 215CMTP25 215CMTP35		307CMTP09 307CMTP15 307CMTP25 307CMTP35		315CMTP09 315CMTP15 315CMTP25 315CMTP35	
	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)
5	0.36	4,343	0.50	6,083	0.87	10,543	1.38	16,677	2.22	26,899	3.71	44,851	4.11	49,780
10	0.69	4,181	0.93	5,656	1.62	9,798	2.56	15,492	4.16	25,172	7.18	43,417	8.23	49,780
20	1.33	4,016	1.79	5,425	3.10	9,372	4.90	14,822	7.92	23,967	13.74	41,576	16.46	49,780
30	1.94	3,917	2.65	5,352	4.58	9,241	7.24	14,607	11.71	23,609	20.07	40,471	24.68	49,780
40	2.54	3,845	3.50	5,296	6.04	9,142	9.55	14,445	15.43	23,337	25.93	39,217	32.91	49,780
50	3.13	3,789	4.34	5,251	7.49	9,060	11.83	14,312	19.10	23,114	30.31	36,678	41.14	49,780
60	3.71	3,743	5.17	5,213	8.92	8,991	13.71	13,823	22.69	22,884	34.44	34,725	48.86	49,269
70	4.28	3,703	5.99	5,179	9.83	8,494	15.27	13,198	25.28	21,849	38.36	33,156	56.25	48,619
80	4.85	3,668	6.81	5,149	10.68	8,077	16.77	12,680	27.76	20,992	42.12	31,855	56.25	42,542
90	5.41	3,637	7.62	5,122	11.49	7,725	18.21	12,240	30.14	20,263	45.74	30,747	56.25	37,815
100	5.96	3,609	8.43	5,098	12.27	7,421	19.60	11,858	32.45	19,632	46.88	28,361	56.25	34,034
110	6.51	3,583	9.23	5,075	13.07	7,190	20.95	11,524	34.69	19,078	46.88	25,783	56.25	30,940
120	7.06	3,560	10.02	5,053	13.85	6,985	22.27	11,228	36.87	18,588	46.88	23,634	56.25	28,361
130	7.60	3,538	10.81	5,033	14.61	6,801	23.55	10,961	37.50	17,453	46.88	21,816	56.25	26,180
140	8.14	3,518	11.60	5,014	15.35	6,635	24.80	10,720	37.50	16,206	46.88	20,258	56.25	24,310
150	8.67	3,499	12.32	4,971	16.07	6,483	26.03	10,501	37.50	15,126	46.88	18,908	56.25	22,689
160	8.84	3,342	12.89	4,875	16.78	6,344	27.24	10,299	37.50	14,181	46.88	17,726	56.25	21,271
170	9.20	3,273	13.45	4,788	17.46	6,215	28.42	10,113	37.50	13,346	46.88	16,683	56.25	20,020
180	9.55	3,209	14.00	4,706	18.14	6,097	29.57	9,941	37.50	12,605	46.88	15,756	56.25	18,908
190	9.89	3,149	14.54	4,631	18.80	5,986	30.71	9,781	37.50	11,942	46.88	14,927	56.25	17,912
200	10.23	3,094	15.07	4,560	19.45	5,884	31.84	9,632	37.50	11,345	46.88	14,181	56.25	17,017

CMTP



CMTP Selection Chart



Class III Service (2.0 S.F.)

Single Reduction														
Output RPM	107CMTP05		115CMTP05		203CMTP05		207CMTP05		215CMTP05		307CMTP05		315CMTP05	
	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)
5	0.13	1,592	0.26	3,155	0.43	5,162	0.52	6,278	0.81	9,861	1.23	14,831	1.57	19,013
10	0.26	1,592	0.52	3,155	0.85	5,162	1.04	6,278	1.63	9,861	2.45	14,831	3.14	19,013
20	0.53	1,592	1.04	3,155	1.71	5,162	2.08	6,278	3.26	9,861	4.90	14,831	6.28	19,013
30	0.79	1,592	1.56	3,155	2.56	5,162	3.11	6,278	4.89	9,861	7.35	14,831	9.43	19,013
40	1.05	1,592	2.09	3,155	3.41	5,162	4.15	6,278	6.52	9,861	9.80	14,831	12.57	19,013
50	1.32	1,592	2.61	3,155	4.27	5,162	5.19	6,278	8.15	9,861	12.26	14,831	15.71	19,013
60	1.58	1,592	3.13	3,155	5.12	5,162	6.23	6,278	9.78	9,861	14.71	14,831	18.85	19,013
70	1.84	1,592	3.65	3,155	5.97	5,162	7.26	6,278	11.41	9,861	17.16	14,831	22.00	19,013
80	2.11	1,592	4.17	3,155	6.83	5,162	8.30	6,278	13.04	9,861	19.61	14,831	25.14	19,013
90	2.37	1,592	4.69	3,155	7.68	5,162	9.34	6,278	14.67	9,861	22.06	14,831	28.28	19,013
100	2.55	1,540	5.05	3,055	8.26	4,998	10.04	6,073	15.67	9,480	23.57	14,263	30.42	18,406
110	2.72	1,495	5.39	2,967	8.82	4,853	10.72	5,898	16.70	9,187	25.13	13,820	32.51	17,884
120	2.89	1,455	5.73	2,889	9.37	4,726	11.39	5,742	17.70	8,925	26.65	13,436	34.54	17,415
130	3.05	1,419	6.06	2,819	9.91	4,611	12.04	5,603	18.67	8,691	28.11	13,082	36.51	16,991
140	3.21	1,386	6.38	2,756	10.43	4,507	12.67	5,476	19.62	8,479	29.53	12,764	38.45	16,617
150	3.36	1,356	6.69	2,698	10.94	4,412	13.29	5,361	20.55	8,287	30.93	12,475	40.33	16,266
160	3.51	1,329	7.00	2,645	11.44	4,325	13.90	5,257	21.44	8,109	32.29	12,209	42.20	15,957
170	3.66	1,304	7.30	2,597	11.93	4,244	14.50	5,159	22.33	7,946	33.63	11,967	44.00	15,659
180	3.81	1,280	7.59	2,552	12.41	4,170	15.09	5,071	23.19	7,796	34.93	11,742	45.79	15,391
190	3.95	1,259	7.88	2,509	12.88	4,102	15.66	4,987	24.04	7,656	36.19	11,524	47.53	15,136
200	4.09	1,238	8.17	2,470	13.35	4,038	16.23	4,908	24.87	7,524	37.47	11,335	49.24	14,897
210	4.23	1,219	8.45	2,434	13.80	3,977	16.78	4,834	25.69	7,401	38.68	11,145	50.99	14,690
220	4.37	1,201	8.72	2,399	14.25	3,920	17.33	4,766	26.49	7,286	39.90	10,973	52.66	14,482
230	4.50	1,185	9.00	2,366	14.70	3,866	17.88	4,703	27.29	7,178	41.10	10,812	54.25	14,272
240	4.63	1,168	9.26	2,335	15.14	3,816	18.40	4,639	28.07	7,076	42.29	10,662	55.93	14,099
250	4.77	1,153	9.53	2,307	15.57	3,768	18.93	4,582	28.83	6,976	43.42	10,509	56.25	13,613
260	4.89	1,139	9.79	2,279	16.00	3,723	19.45	4,527	29.58	6,883	44.55	10,368	56.25	13,090
270	5.02	1,126	10.05	2,253	16.42	3,679	19.97	4,475	30.34	6,798	45.69	10,238	56.25	12,605
280	5.15	1,112	10.31	2,227	16.84	3,638	20.49	4,427	31.06	6,712	46.83	10,120	56.25	12,155
290	5.27	1,100	10.56	2,203	17.25	3,599	20.98	4,378	31.79	6,633	46.88	9,780	56.25	11,736
300	5.40	1,088	10.81	2,180	17.66	3,561	21.48	4,332	32.51	6,558	46.88	9,454	56.25	11,345
310	5.52	1,077	11.06	2,159	18.06	3,525	21.98	4,290	33.21	6,482	46.88	9,149	56.25	10,979
320	5.64	1,066	11.31	2,138	18.46	3,490	22.46	4,247	33.92	6,414	46.88	8,863	56.25	10,635
330	5.76	1,056	11.55	2,117	18.85	3,457	22.93	4,205	34.61	6,346	46.88	8,594	56.25	10,313
340	5.88	1,046	11.79	2,099	19.25	3,425	23.41	4,166	35.30	6,282	46.88	8,342	56.25	10,010
350	5.99	1,036	12.03	2,080	19.64	3,395	23.89	4,130	35.97	6,218	46.88	8,103	56.25	9,724
360	6.11	1,027	12.26	2,061	20.02	3,365	24.36	4,095	36.64	6,158	46.88	7,878	56.25	9,454
370	6.22	1,018	12.50	2,044	20.40	3,337	24.82	4,059	37.32	6,103	46.88	7,665	56.25	9,198
380	6.34	1,009	12.73	2,028	20.78	3,308	25.29	4,027	37.50	5,971	46.88	7,463	56.25	8,956
390	6.45	1,001	12.96	2,011	20.93	3,246	25.75	3,995	37.50	5,818	46.88	7,272	56.25	8,727
400	6.56	993	13.19	1,995	20.93	3,165	26.20	3,963	37.50	5,672	46.88	7,090	56.25	8,508



CMTP Selection Chart

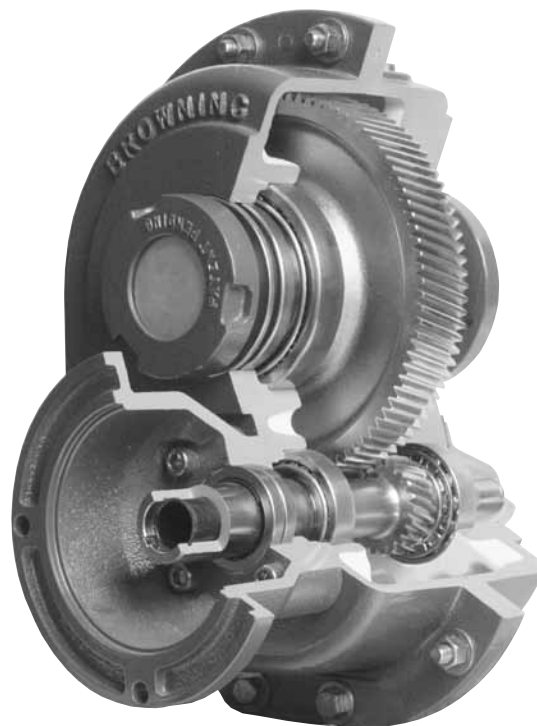
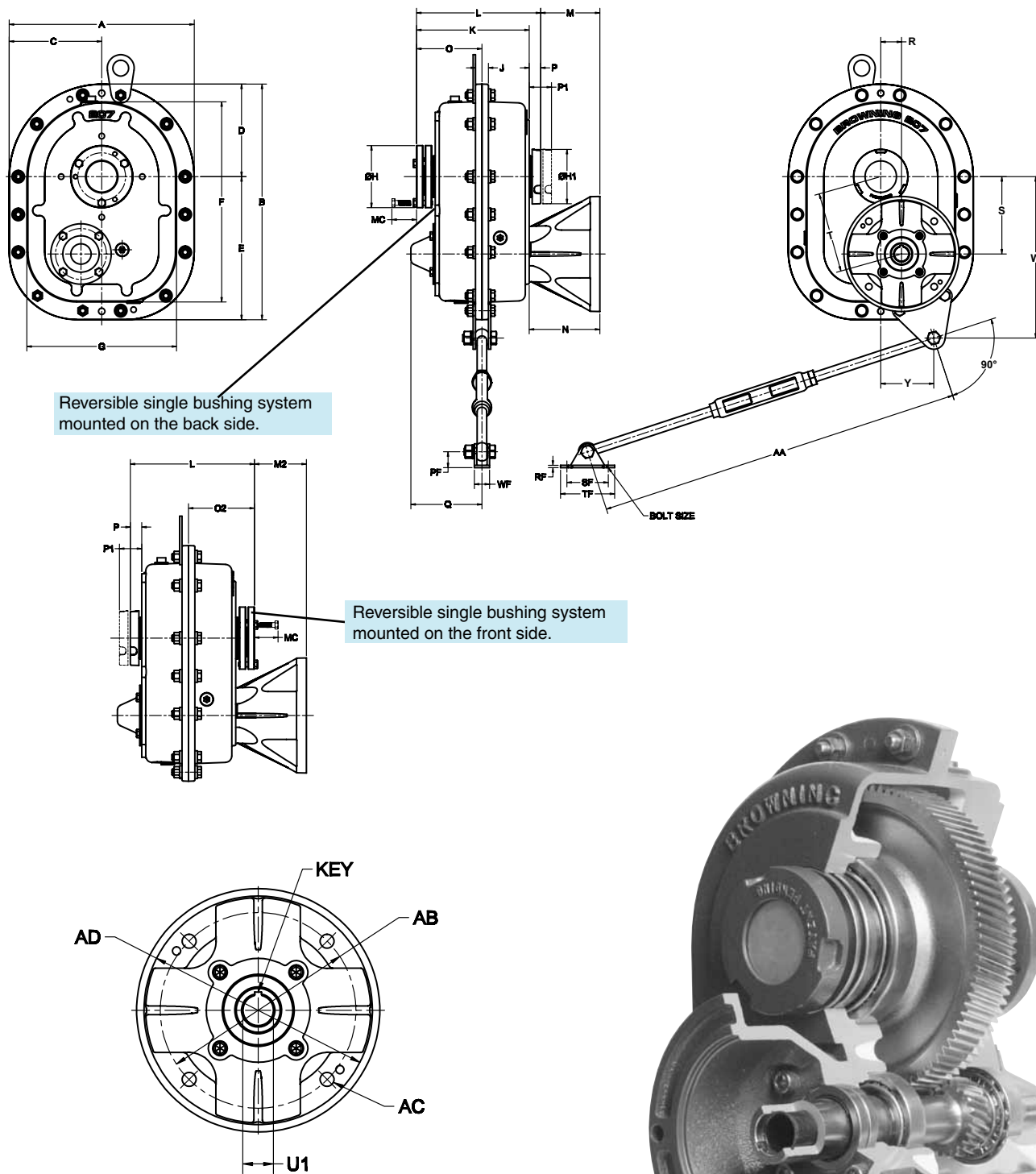


Class III Service (2.0 S.F.)

Double Reduction														
Output RPM	107CMTP09 107CMTP15 107CMTP25 107CMTP35		115CMTP09 115CMTP15 115CMTP25 115CMTP35		203CMTP09 203CMTP15 203CMTP25 203CMTP35		207CMTP09 207CMTP15 207CMTP25 207CMTP35		215CMTP09 215CMTP15 215CMTP25 215CMTP35		307CMTP09 307CMTP15 307CMTP25 307CMTP35		315CMTP09 315CMTP15 315CMTP25 315CMTP35	
	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)	Input HP	Output Torque (In-lbs)
5	0.25	3,040	0.35	4,258	0.61	7,380	0.96	11,674	1.56	18,830	2.59	31,396	2.88	34,846
10	0.48	2,927	0.65	3,959	1.13	6,859	1.79	10,845	2.91	17,621	5.02	30,392	5.76	34,846
20	0.93	2,811	1.26	3,797	2.17	6,561	3.43	10,375	5.55	16,777	9.62	29,103	11.52	34,846
30	1.36	2,742	1.86	3,746	3.21	6,469	5.07	10,225	8.19	16,526	14.05	28,330	17.28	34,846
40	1.78	2,692	2.45	3,707	4.23	6,399	6.68	10,111	10.80	16,336	18.15	27,452	23.04	34,846
50	2.19	2,652	3.04	3,676	5.24	6,342	8.28	10,019	13.37	16,180	21.22	25,675	28.80	34,846
60	2.60	2,620	3.62	3,649	6.24	6,294	9.60	9,676	15.89	16,019	24.11	24,308	34.20	34,488
70	3.00	2,592	4.19	3,626	6.88	5,946	10.69	9,238	17.69	15,294	26.85	23,209	39.42	34,071
80	3.40	2,568	4.77	3,605	7.48	5,654	11.74	8,876	19.43	14,695	29.48	22,298	44.57	33,708
90	3.79	2,546	5.33	3,586	8.04	5,407	12.74	8,568	21.10	14,184	32.02	21,523	47.63	32,019
100	4.18	2,526	5.90	3,568	8.59	5,195	13.72	8,301	22.71	13,742	34.47	20,854	51.19	30,973
110	4.56	2,508	6.46	3,552	9.15	5,033	14.67	8,067	24.28	13,355	36.84	20,266	54.64	30,053
120	4.94	2,492	7.02	3,537	9.70	4,890	15.59	7,860	25.81	13,012	39.16	19,744	56.25	28,361
130	5.32	2,477	7.57	3,523	10.23	4,761	16.49	7,673	27.29	12,703	41.41	19,274	56.25	26,180
140	5.70	2,462	8.12	3,510	10.75	4,644	17.36	7,504	28.75	12,423	43.62	18,853	56.25	24,310
150	6.07	2,449	8.63	3,480	11.25	4,538	18.22	7,351	30.17	12,169	45.78	18,466	56.25	22,689
160	6.19	2,339	9.03	3,413	11.74	4,441	19.07	7,210	31.56	11,936	46.88	17,726	56.25	21,271
170	6.44	2,291	9.42	3,351	12.22	4,351	19.89	7,079	32.93	11,721	46.88	16,683	56.25	20,020
180	6.68	2,246	9.80	3,294	12.70	4,268	20.70	6,959	34.28	11,522	46.88	15,756	56.25	18,908
190	6.92	2,204	10.18	3,242	13.16	4,190	21.50	6,847	35.60	11,335	46.88	14,927	56.25	17,912
200	7.16	2,166	10.55	3,192	13.61	4,119	22.29	6,742	36.90	11,162	46.88	14,181	56.25	17,017

CMTP

CMTP TorqTaper Plus Unit Sizes 107-315



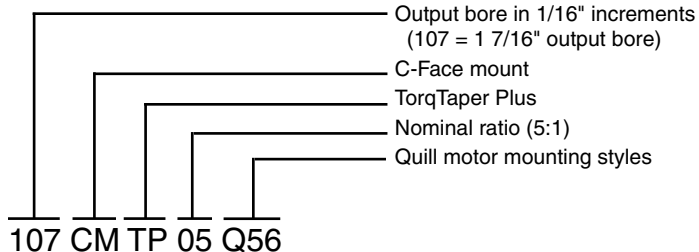
CMTP TorqTaper Plus Unit Sizes 107-315

PART NO.	DIMENSIONS IN INCHES																			
	A	B	C	D	E	F	G	H	H1	J	K	L	M	M2	MC	N	O	P	P1	PF
107CMTP	9.76	12.07	4.88	4.88	7.19	10.07	7.75	3.25	3.00	0.63	5.52	7.89	3.18	2.61	1.75	4.08	4.25	0.90	1.84	1.14
115CMTP	11.00	14.08	5.50	5.50	8.58	11.78	8.69	4.13	3.50	0.75	5.99	8.36	3.34	2.77	1.88	4.24	4.48	0.90	1.83	1.14
203CMTP	12.88	16.16	6.44	6.44	9.72	13.66	10.38	4.50	3.75	0.87	7.07	9.43	4.42	3.84	1.88	5.31	5.01	0.89	1.83	1.32
207CMTP	14.50	16.47	7.25	7.25	11.22	15.73	11.76	4.88	4.25	1.01	7.39	9.75	4.23	3.65	1.88	5.12	5.14	0.89	1.86	1.51
215CMTP	16.25	20.88	8.13	8.13	12.76	18.07	13.44	5.31	4.75	1.07	8.24	10.85	4.85	4.28	1.88	5.87	5.89	1.02	1.96	1.51
307CMTP	19.04	24.37	9.52	9.52	14.85	21.00	15.67	6.44	5.69	1.25	9.27	12.57	6.09	5.47	2.25	7.45	6.58	1.36	2.75	1.81
315CMTP	19.90	26.35	9.95	9.95	16.40	23.02	16.57	7.13	6.70	1.25	10.51	14.50	6.59	5.96	2.75	8.32	7.51	1.73	3.25	2.22

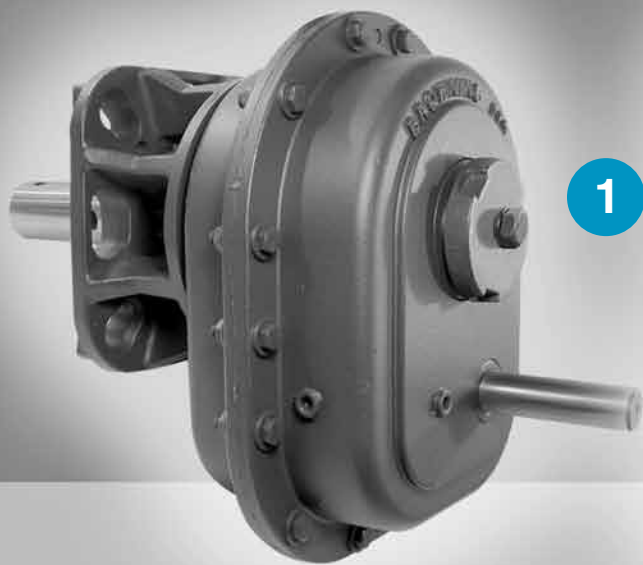
PART NO.	DIMENSIONS IN INCHES																
	Q	R	RF	S	SF	T	TF	U1	W	WF	Y	AA		BOLT SIZE	KEY	MAX. OUTPUT BORE	WT. LBS.
												MIN.	MAX.				
107CMTP	4.34	1.18	0.36	3.77	2.50	3.95	3.38	0.75	7.88	1.44	2.73	24.00	30.00	3/8	.188 x .188 x 2.88	1 7/16	61
115CMTP	4.51	1.35	0.36	4.36	2.50	4.56	3.38	1.13	9.14	1.44	3.12	24.00	30.00	3/8	.250 x .250 x 2.75	1 15/16	92
203CMTP	5.04	1.48	0.42	5.26	2.50	5.46	3.50	1.25	10.94	1.72	3.64	24.00	30.00	3/8	.250 x .250 x 2.75	2 3/16	130
207CMTP	5.57	1.63	0.48	6.08	3.00	6.29	4.25	1.44	12.68	2.19	4.16	27.00	33.00	7/16	.375 x .375 x 3.75	2 7/16	171
215CMTP	6.24	2.12	0.48	7.01	3.00	7.32	4.25	1.88	14.19	2.19	4.65	27.00	33.00	7/16	.500 x .500 x 3.75	2 15/16	250
307CMTP	6.79	2.25	0.61	7.78	4.00	8.10	5.38	2.00	17.00	2.78	5.58	29.00	35.00	1/2	.500 x .500 x 6.50	3 7/16	381
315CMTP	8.05	2.63	0.72	8.53	4.75	8.93	6.50	2.13	18.12	3.63	6.20	29.50	35.50	5/8	.500 x .500 x 7.50	3 15/16	490

PART NO.	DIMENSIONS IN INCHES								
	M	M2	N	O2	U1	KEY	AB	AC	AD
107CMTP Q56	2.41	▲	3.32	▲	0.63	0.188	5.88	0.38	4.50
107CMTP Q140	2.41	▲	3.32	▲	0.88	0.188	5.88	0.38	4.50
115CMTP Q56	2.41	▲	3.32	▲	0.63	0.188	5.88	0.38	4.50
115CMTP Q140	2.41	▲	3.32	▲	0.88	0.188	5.88	0.38	4.50
115CMTP Q180	4.70	▲	5.61	▲	1.13	0.250	7.25	0.50	8.50
203CMTP Q56	2.92	2.38	3.82	4.99	0.63	0.188	5.88	0.38	4.50
203CMTP Q140	2.92	2.38	3.82	4.99	0.88	0.188	5.88	0.38	4.50
203CMTP Q180	4.71	▲	5.61	▲	1.13	0.250	7.25	0.50	8.50
203CMTP Q210	4.71	▲	5.61	▲	1.38	0.313	7.25	0.50	8.50
207CMTP Q56	2.86	2.31	3.76	5.19	0.63	0.188	5.88	0.38	4.50
207CMTP Q140	2.86	2.31	3.76	5.19	0.88	0.188	5.88	0.38	4.50
207CMTP Q180	4.65	4.10	5.55	5.19	1.13	0.250	7.25	0.50	8.50
207CMTP Q210	4.65	4.10	5.55	5.19	1.38	0.313	7.25	0.50	8.50
215CMTP Q56	2.80	2.23	3.83	5.74	0.63	0.188	5.88	0.38	4.50
215CMTP Q140	2.80	2.23	3.83	5.74	0.88	0.188	5.88	0.38	4.50
215CMTP Q180	4.83	4.26	5.86	5.74	1.13	0.250	7.25	0.50	8.50
215CMTP Q210	4.83	4.26	5.86	5.74	1.38	0.313	7.25	0.50	8.50
215CMTP Q250	4.83	4.26	5.86	5.74	1.63	0.375	7.25	0.50	8.50
307CMTP Q56	2.40	1.78	3.76	6.61	0.63	0.188	5.88	0.38	4.50
307CMTP Q140	2.40	1.78	3.76	6.61	0.88	0.188	5.88	0.38	4.50
307CMTP Q180	4.43	3.81	5.79	6.61	1.13	0.250	7.25	0.50	8.50
307CMTP Q210	4.43	3.81	5.79	6.61	1.38	0.313	7.25	0.50	8.50
307CMTP Q250	4.43	3.81	5.79	6.61	1.63	0.375	7.25	0.50	8.50
315CMTP Q56	2.03	1.40	3.76	7.61	0.63	0.188	5.88	0.38	4.50
315CMTP Q140	2.03	1.40	3.76	7.61	0.88	0.188	5.88	0.38	4.50
315CMTP Q180	4.06	3.43	5.79	7.61	1.13	0.250	7.25	0.50	8.50
315CMTP Q210	4.06	3.43	5.79	7.61	1.38	0.313	7.25	0.50	8.50
315CMTP Q250	4.06	3.43	5.79	7.61	1.63	0.375	7.25	0.50	8.50

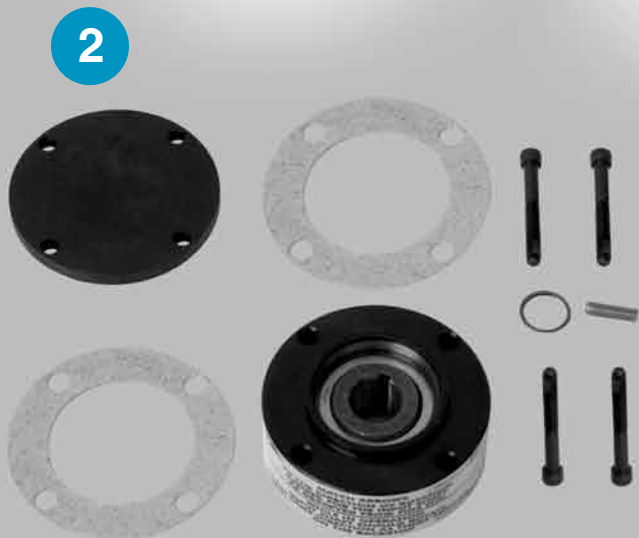
Part Number Explanation



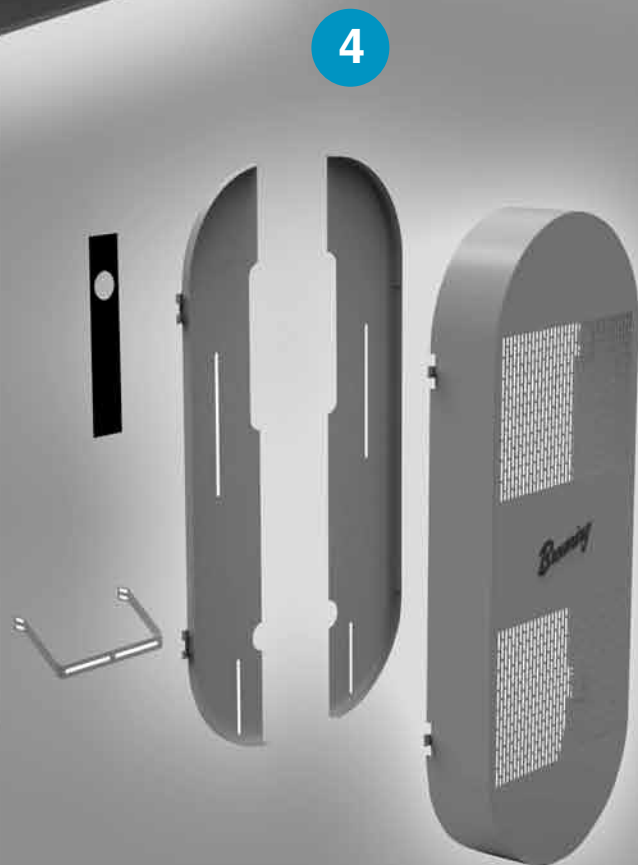
▲ Bushing system cannot be mounted on the front side with this reducer and motor combination.



1



2



4



3

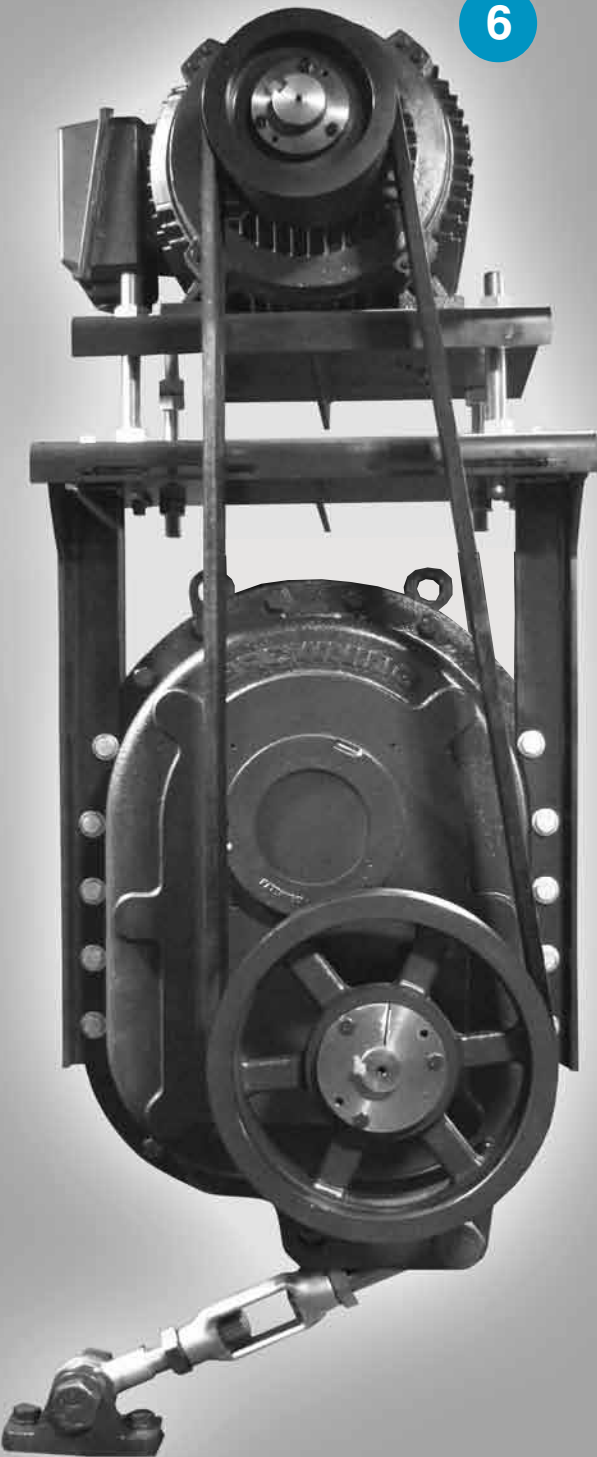


5

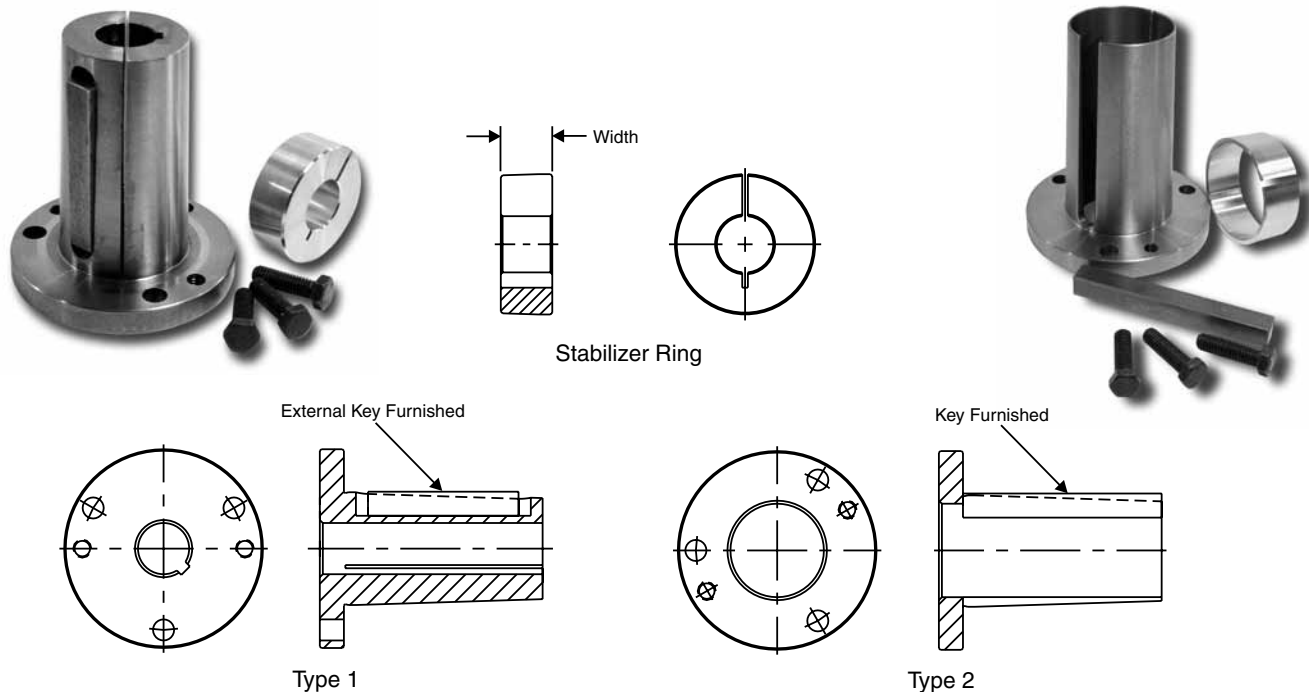
Check Out These Options for TorqTaper Plus Reducers

1. Modular screw conveyor – standard shaft mount converts to a screw conveyor drive using stock components.
2. Backstop kits
3. Patented bushing kits
4. Belt guard kits
5. Bushing guard kits
6. Motor mount kits

6



TorqTaper Plus Bushing Kits Unit Sizes 107-115



REDUCER SIZE	BUSHING NO.	BORE SIZE	SHAFT KEYSEAT REQUIRED	TYPE	STABILIZER RING WIDTH	BOLT TORQUE		WEIGHT
						BOLT SIZE	FT.LBS.	
107SMTP	107TBP012	3/4	3/16 x 3/32 x 3 7/8	1	0.793	5/16-18 x 1 1/4	16	2.6
	107TBP014	7/8	3/16 x 3/32 x 3 7/8	1				2.5
	107TBP015	15/16	1/4 x 1/8 x 3 7/8	2				2.4
	107TBP100	1	1/4 x 1/8 x 3 7/8	2				2.3
	107TBP101	1 1/16	1/4 x 1/8 x 3 7/8	2				2.1
	107TBP102	1 1/8	1/4 x 1/8 x 3 7/8	2				2.0
	107TBP103	1 3/16	1/4 x 1/8 x 3 7/8	2				1.9
	107TBP104	1 1/4	1/4 x 1/8 x 3 7/8	2				1.8
	107TBP105	1 5/16	5/16 x 5/32 x 3 7/8	2				1.6
	107TBP106	1 3/8	5/16 x 5/32 x 3 7/8	2				1.5
	107TBP107	1 7/16	3/8 x 3/16 x 3 7/8	2				1.5
115SMTP	115TBP015	15/16	1/4 x 1/8 x 4 1/8	1	0.855	3/8-16 x 1 1/4	29	6.0
	115TBP100	1	1/4 x 1/8 x 4 1/8	1				5.9
	115TBP101	1 1/16	1/4 x 1/8 x 4 1/8	1				5.7
	115TBP102	1 1/8	1/4 x 1/8 x 4 1/8	1				5.6
	115TBP103	1 3/16	1/4 x 1/8 x 4 1/8	1				5.4
	115TBP104	1 1/4	1/4 x 1/8 x 4 1/8	1				5.3
	115TBP105	1 5/16	5/16 x 5/32 x 4 1/8	2				5.1
	115TBP106	1 3/8	5/16 x 5/32 x 4 1/8	2				4.8
	115TBP107	1 7/16	3/8 x 3/16 x 4 1/8	2				4.7
	115TBP108	1 1/2	3/8 x 3/16 x 4 1/8	2				4.4
	115TBP110	1 5/8	3/8 x 3/16 x 4 1/8	2				4.0
	115TBP111	1 11/16	3/8 x 3/16 x 4 1/8	2				3.7
	115TBP112	1 3/4	3/8 x 3/16 x 4 1/8	2				3.5
	115TBP115	1 15/16	1/2 x 1/4 x 4 1/8	2				2.7

Note: When using shafts smaller than the largest bushing bore shown for a specific reducer, shaft stress based on the transmitted load must always be checked.

TorqTaper Plus Bushing Kits Unit Sizes 203-215

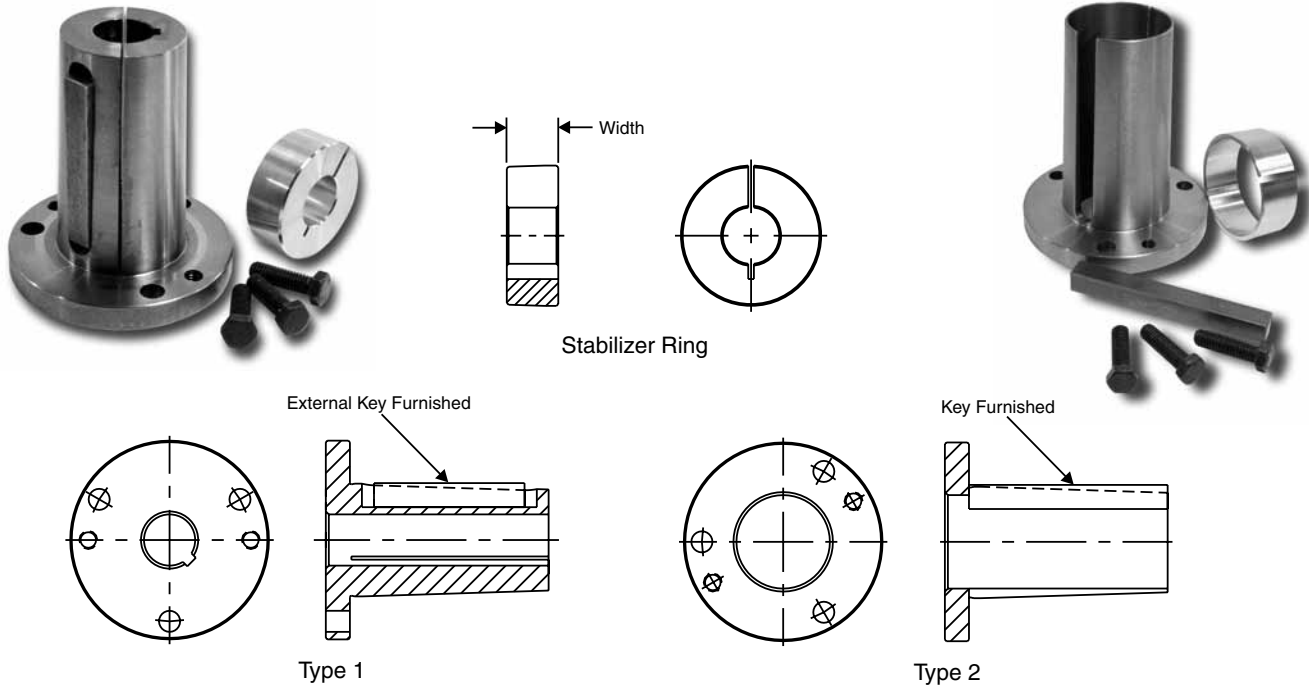
REDUCER SIZE	BUSHING NO.	BORE SIZE	SHAFT KEYSEAT REQUIRED	TYPE	STABILIZER RING WIDTH	BOLT TORQUE		WEIGHT
						BOLT SIZE	FT.LBS.	
203SMTP	203TBP103	1 3/16	1/4 x 1/8 x 4 5/8	1	0.980	3/8-16 x 1 1/4	29	7.5
	203TBP104	1 1/4	1/4 x 1/8 x 4 5/8	1				7.3
	203TBP105	1 5/16	5/16 x 5/32 x 4 5/8	1				7.1
	203TBP106	1 3/8	5/16 x 5/32 x 4 5/8	1				6.9
	203TBP107	1 7/16	3/8 x 3/16 x 4 5/8	1				6.6
	203TBP108	1 1/2	3/8 x 3/16 x 4 5/8	2				6.1
	203TBP110	1 5/8	3/8 x 3/16 x 4 5/8	2				5.9
	203TBP111	1 11/16	3/8 x 3/16 x 4 5/8	2				5.6
	203TBP112	1 3/4	3/8 x 3/16 x 4 5/8	2				5.4
	203TBP114	1 7/8	1/2 x 1/4 x 4 5/8	2				4.8
	203TBP115	1 15/16	1/2 x 1/4 x 4 5/8	2				4.4
	203TBP200	2	1/2 x 1/4 x 4 5/8	2				4.2
	203TBP203	2 3/16	1/2 x 1/4 x 4 5/8	2				3.1

207SMTP	207TBP106	1 3/8	5/16 x 5/32 x 5 1/8	1	1.040	3/8-16 x 1 1/4	29	9.6
	207TBP107	1 7/16	3/8 x 3/16 x 5 1/8	1				9.3
	207TBP108	1 1/2	3/8 x 3/16 x 5 1/8	1				9.1
	207TBP110	1 5/8	3/8 x 3/16 x 5 1/8	2				8.5
	207TBP111	1 11/16	3/8 x 3/16 x 5 1/8	2				8.3
	207TBP112	1 3/4	3/8 x 3/16 x 5 1/8	2				7.9
	207TBP114	1 7/8	1/2 x 1/4 x 5 1/8	2				7.3
	207TBP115	1 15/16	1/2 x 1/4 x 5 1/8	2				6.9
	207TBP200	2	1/2 x 1/4 x 5 1/8	2				6.6
	207TBP202	2 1/8	1/2 x 1/4 x 5 1/8	2				5.9
	207TBP203	2 3/16	1/2 x 1/4 x 5 1/8	2				5.5
	207TBP204	2 1/4	1/2 x 1/4 x 5 1/8	2				5.1
	207TBP207	2 7/16	5/8 x 5/16 x 5 1/8	2				3.9

215SMTP	215TBP107	1 7/16	3/8 x 3/16 x 5 5/8	1	1.140	3/8-16 x 1 3/8	29	14.9
	215TBP108	1 1/2	3/8 x 3/16 x 5 5/8	1				14.5
	215TBP111	1 11/16	3/8 x 3/16 x 5 5/8	1				13.6
	215TBP112	1 3/4	3/8 x 3/16 x 5 5/8	1				13.2
	215TBP114	1 7/8	1/2 x 1/4 x 5 5/8	2				12.6
	215TBP115	1 15/16	1/2 x 1/4 x 5 5/8	2				12.2
	215TBP200	2	1/2 x 1/4 x 5 5/8	2				11.9
	215TBP203	2 3/16	1/2 x 1/4 x 5 5/8	2				10.7
	215TBP204	2 1/4	1/2 x 1/4 x 5 5/8	2				9.80
	215TBP207	2 7/16	5/8 x 5/16 x 5 5/8	2				8.90
	215TBP208	2 1/2	5/8 x 5/16 x 5 5/8	2				8.50
	215TBP211	2 11/16	5/8 x 5/16 x 5 5/8	2				7.00
	215TBP215	2 15/16	3/4 x 3/8 x 5 5/8	2				5.00

Note: When using shafts smaller than the largest bushing bore shown for a specific reducer, shaft stress based on the transmitted load must always be checked.

TorqTaper Plus Bushing Kits Unit Sizes 307-315

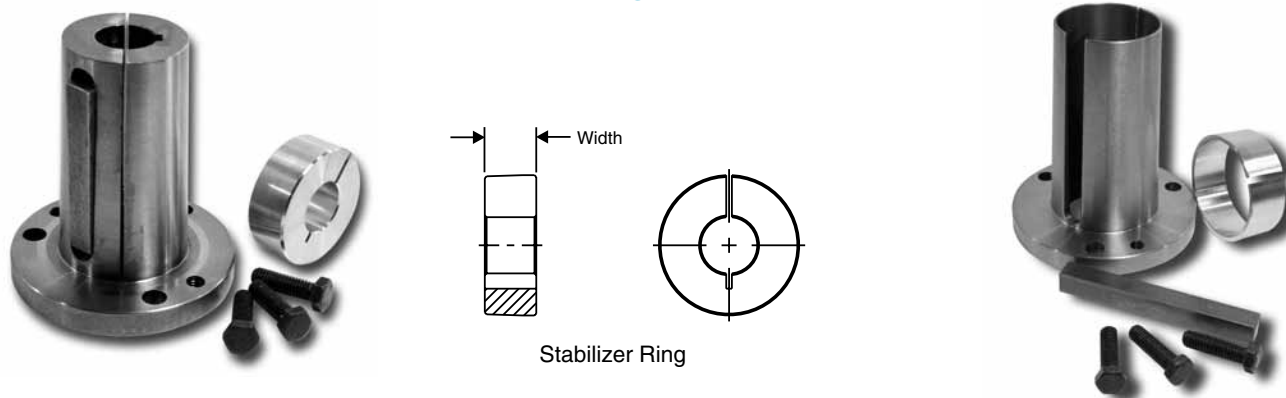


REDUCER SIZE	BUSHING NO.	BORE SIZE	SHAFT KEYSEAT REQUIRED	TYPE	STABILIZER RING WIDTH	BOLT TORQUE		WEIGHT
						BOLT SIZE	FT.LBS.	
307SMTP	307TBP115	1 15/16	1/2 x 1/4 x 6 3/4	1	1.45	1/2-13 x 1 5/8	65	21.61
	307TBP200	2	1/2 x 1/4 x 6 3/4	1				21.13
	307TBP203	2 3/16	1/2 x 1/4 x 6 3/4	1				19.76
	307TBP204	2 1/4	1/2 x 1/4 x 6 3/4	1				19.27
	307TBP206	2 3/8	5/8 x 5/16 x 6 3/4	2				18.28
	307TBP207	2 7/16	5/8 x 5/16 x 6 3/4	2				17.68
	307TBP208	2 1/2	5/8 x 5/16 x 6 3/4	2				17.08
	307TBP211	2 11/16	5/8 x 5/16 x 6 3/4	2				15.36
	307TBP214	2 7/8	3/4 x 3/8 x 6 3/4	2				13.51
	307TBP215	2 15/16	3/4 x 3/8 x 6 3/4	2				12.89
	307TBP300	3	3/4 x 3/8 x 6 3/4	2				12.76
	307TBP306	3 3/8	7/8 x 7/16 x 6 3/4	2				7.55
	307TBP307	3 7/16	7/8 x 7/16 x 6 3/4	2				7.11

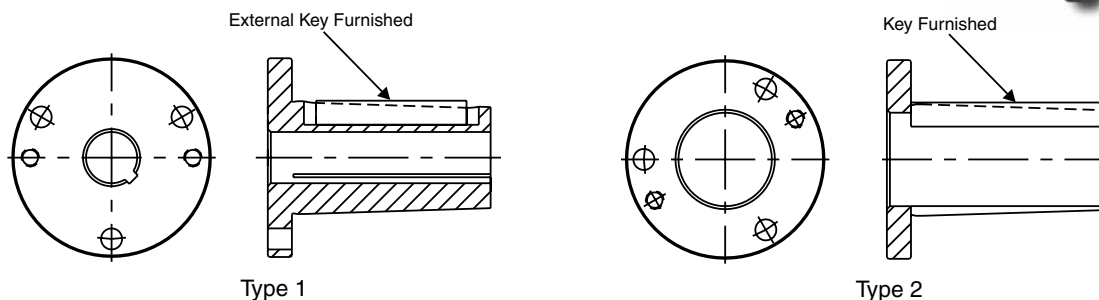
REDUCER SIZE	BUSHING NO.	BORE SIZE	SHAFT KEYSEAT REQUIRED	TYPE	STABILIZER RING WIDTH	BOLT TORQUE		WEIGHT
						BOLT SIZE	FT.LBS.	
315SMTP	315TBP207	2 7/16	5/8 x 5/16 x 7 15/16	1	1.69	1/2-13 x 1 3/4	65	30.89
	315TBP208	2 1/2	5/8 x 5/16 x 7 15/16	1				30.47
	315TBP211	2 11/16	5/8 x 5/16 x 7 15/16	1				28.09
	315TBP213	2 13/16	3/4 x 3/8 x 7 15/16	1				26.83
	315TBP214	2 7/8	3/4 x 3/8 x 7 15/16	1				26.09
	315TBP215	2 15/16	3/4 x 3/8 x 7 15/16	2				23.95
	315TBP300	3	3/4 x 3/8 x 7 15/16	2				22.90
	315TBP303	3 3/16	3/4 x 3/8 x 7 15/16	2				20.65
	315TBP307	3 7/16	7/8 x 7/16 x 7 15/16	2				17.10
	315TBP315	3 15/16	1 x 1/2 x 7 15/16	2				11.24

Note: When using shafts smaller than the largest bushing bore shown for a specific reducer, shaft stress based on the transmitted load must always be checked.

TorqTaper Plus Bushing Kits Unit Sizes 407-800



Shaft Mount
Accessories



Reducer Size	Bushing No.	Bore Size	Shaft Keyseat Required	Type	Stabilizer Ring Width	Bolt Torque		Weight
						Bolt Size	Ft. Lbs.	
407SMTP_B	407TBP215B	2 15/16	3/4 x 3/8 x 7 1/2	1	1.56	1/2-13 x 1 3/4	65	30.2
	407TBP303B	3 3/16	3/4 x 3/8 x 7 1/2	2				29.3
	407TBP307B	3 7/16	7/8 x 7/16 x 7 1/2	2				26.5
	407TBP315B	3 15/16	1 x 1/2 x 7 1/2	2				20.1
	407TBP403B	4 3/16	1 x 1/2 x 7 1/2	2				16.5
	407TBP407B	4 7/16	1 x 1/2 x 7 1/2	2				12.6
Reducer Size	Bushing No.	Bore Size	Shaft Keyseat Required	Type	Stabilizer Ring Width	Bolt Torque		Weight
						Bolt Size	Ft. Lbs.	
415SMTP_B	415TBP307B	3 7/16	7/8 x 7/16 x 9 1/4	2	1.59	5/8-11 x 2	140	53.1
	415TBP315B	3 15/16	1 x 1/2 x 9 1/4	2				44.4
	415TBP403B	4 3/16	1 x 1/2 x 9 1/4	2				40.1
	415TBP407B	4 7/16	1 x 1/2 x 9 1/4	2				35.5
	415TBP408B	4 1/2	1 x 1/2 x 9 1/4	2				34.2
	415TBP415B	4 15/16	1 1/4 x 5/8 x 9 1/4	2				25.6
Reducer Size	Bushing No.	Bore Size	Shaft Keyseat Required	Type	Stabilizer Ring Width	Bolt Torque		Weight
						Bolt Size	Ft. Lbs.	
507SMTP_B	507TBP315B	3 15/16	1 x 1/2 x 10 3/8	2	1.56	3/4-10 x 2 1/4	250	65.0
	507TBP403B	4 3/16	1 x 1/2 x 10 3/8	2				59.0
	507TBP407B	4 7/16	1 x 1/2 x 10 3/8	2				54.0
	507TBP415B	4 15/16	1 1/4 x 5/8 x 10 3/8	2				45.0
	507TBP507B	5 7/16	1 1/4 x 5/8 x 10 3/8	2				37.0
Reducer Size	Bushing No.	Bore Size	Shaft Keyseat Required	Type	Stabilizer Ring Width	Bolt Torque		Weight
						Bolt Size	Ft. Lbs.	
608SMTP_B	608TBP507B	5 7/16	1 1/4 x 5/8 x 11	2	1.71	3/4-10 x 2 3/4	250	80.0
	608TBP515B	5 15/16	1 1/2 x 3/4 x 11	2				72.0
	608TBP600B	6	1 1/2 x 3/4 x 11	2				70.0
	608TBP607B	6 7/16	1 1/2 x 3/4 x 11	2				64.0
	608TBP608B	6 1/2	1 1/2 x 3/4 x 11	2				63.0
Reducer Size	Bushing No.	Bore Size	Shaft Keyseat Required	Type	Stabilizer Ring Width	Bolt Torque		Weight
						Bolt Size	Ft.Lbs.	
800SMTP	800TBP515	5 15/16	1 1/2 x 3/4 x 11	2	1.88	7/8-9 x 2 3/4	400	168.0
	800TBP600	6	1 1/2 x 3/4 x 11	2				165.0
	800TBP608	6 1/2	1 1/2 x 3/4 x 11	2				147.0
	800TBP700	7	1 3/4 x 7/8 x 11	2				128.0
	800TBP800	8	2 x 1 x 11	2				84.0

Notes: When using shafts smaller than the largest bushing bore shown for a specific reducer, shaft stress based on the transmitted load must always be checked.

Finished Bore Bushings Unit Sizes 107-207

Browning shaft mount reducers may be mounted on shafts smaller than the output bore of the reducer by using the wide selection of bushings offered. These stock bushing kits contain one keyed bushing, one plain bushing, keys and setscrews necessary to fit the smaller shaft.

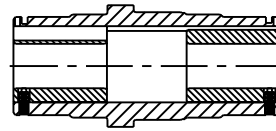
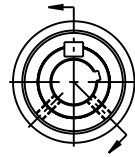


Figure 1 - Thick wall bushing
internal key

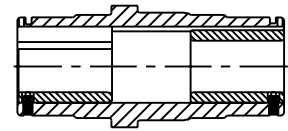
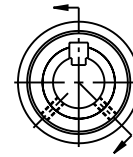


Figure 2 - Thin wall bushing
offset key

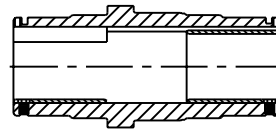
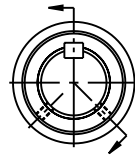


Figure 3 - Thin wall bushing
rectangular or square key

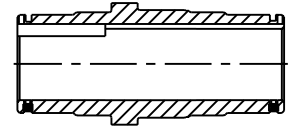
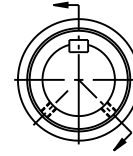


Figure 4 - No bushing

Reducer Size	Shaft Dia.	Shaft Keyseat	Bushing Kit No	Fig.	Wt. Lbs.
107SMFP	3/4"	3/16 x 3/32 x 2"	107BU012	1	1.4
	7/8	3/16 x 3/32 x 2	107BU014	1	1.2
	15/16	1/4 x 1/8 x 2	107BU015	2	1.1
	1	1/4 x 1/8 x 2	107BU100	2	1.0
	1 1/16	1/4 x 1/8 x 2	107BU101	2	.9
	1 1/8	1/4 x 1/8 x 2	107BU102	2	.8
	1 3/16	1/4 x 1/8 x 2	107BU103	2	.6
	1 1/4	1/4 x 1/8 x 2	107BU104	2	.5
	1 5/16	5/16 x 5/32 x 2	107BU105	2	.4
	1 7/16	3/8 x 3/16 x 2	NONE	4	-
115SMFP	15/16	1/4 x 1/8 x 2 1/2	115BU015	1	3.2
	1	1/4 x 1/8 x 2 1/2	115BU100	1	3.1
	1 1/16	1/4 x 1/8 x 2 1/2	115BU101	1	3.0
	1 1/8	1/4 x 1/8 x 2 1/2	115BU102	1	2.8
	1 3/16	1/4 x 1/8 x 2 1/2	115BU103	1	2.7
	1 1/4	1/4 x 1/8 x 2 1/2	115BU104	1	2.5
	1 5/16	5/16 x 5/32 x 2 1/2	115BU105	2	2.3
	1 3/8	5/16 x 5/32 x 2 1/2	115BU106	2	2.1
	1 7/16	3/8 x 3/16 x 2 1/2	115BU107	2	1.9
	1 1/2	3/8 x 3/16 x 2 1/2	115BU108	2	1.7
	1 5/8	3/8 x 3/16 x 2 1/2	115BU110	2	1.3
	1 11/16	3/8 x 3/16 x 2 1/2	115BU111	2	1.1
	1 3/4	3/8 x 3/16 x 2 1/2	115BU112	2	.8
	1 15/16	1/2 x 1/4 x 2 1/2	NONE	4	-
203SMFP	1 3/16	1/4 x 1/8 x 2 1/2	203BU103	1	3.8
	1 1/4	1/4 x 1/8 x 2 1/2	203BU104	1	3.6
	1 5/16	5/16 x 5/32 x 2 1/2	203BU105	1	3.5
	1 3/8	5/16 x 5/32 x 2 1/2	203BU106	1	3.4
	1 7/16	3/8 x 3/16 x 2 1/2	203BU107	1	3.1
	1 1/2	3/8 x 3/16 x 2 1/2	203BU108	2	2.9
	1 5/8	3/8 x 3/16 x 2 1/2	203BU110	2	2.4
	1 11/16	3/8 x 3/16 x 2 1/2	203BU111	2	2.2
	1 3/4	3/8 x 3/16 x 2 1/2	203BU112	2	2.0
	1 7/8	1/2 x 1/4 x 2 1/2	203BU114	3	1.5
	1 15/16	1/2 x 1/4 x 2 1/2	203BU115	3	1.2
	2	1/2 x 1/4 x 2 1/2	203BU200	3	.9
	2 3/16	1/2 x 1/4 x 2 1/2	NONE	4	-
207SMFP	1 3/8	5/16 x 5/32 x 3 1/2	207BU106	1	6.4
	1 7/16	3/8 x 3/16 x 3 1/2	207BU107	1	6.1
	1 1/2	3/8 x 3/16 x 3 1/2	207BU108	1	5.8
	1 5/8	3/8 x 3/16 x 3 1/2	207BU110	2	5.2
	1 11/16	3/8 x 3/16 x 3 1/2	207BU111	2	4.9
	1 3/4	3/8 x 3/16 x 3 1/2	207BU112	2	4.5
	1 7/8	1/2 x 1/4 x 3 1/2	207BU114	2	3.8
	1 15/16	1/2 x 1/4 x 3 1/2	207BU115	2	3.5
	2	1/2 x 1/4 x 3 1/2	207BU200	2	3.1
	2 1/8	1/2 x 1/4 x 3 1/2	207BU202	2	2.3
	2 3/16	1/2 x 1/4 x 3 1/2	207BU203	2	1.8
	2 1/4	1/2 x 1/4 x 3 1/2	207BU204	2	1.4
	2 7/16	5/8 x 5/16 x 3 1/2	NONE	4	-

Note: When using bushings to adapt a SMFP shaft mount reducer to a smaller shaft, the shaft stress based on the transmitted load must always be checked.

Finished Bore Bushings Unit Sizes 215-315

Browning shaft mount reducers may be mounted on shafts smaller than the output bore of the reducer by using the wide selection of bushings offered. These stock bushing kits contain one keyed bushing, one plain bushing, keys and setscrews necessary to fit the smaller shaft.

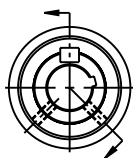


Figure 1 - Thick wall bushing internal key

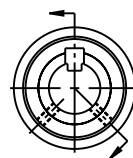


Figure 2 - Thin wall bushing offset key



Figure 3 - Thin wall bushing rectangular or square key

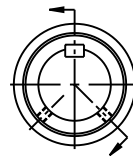
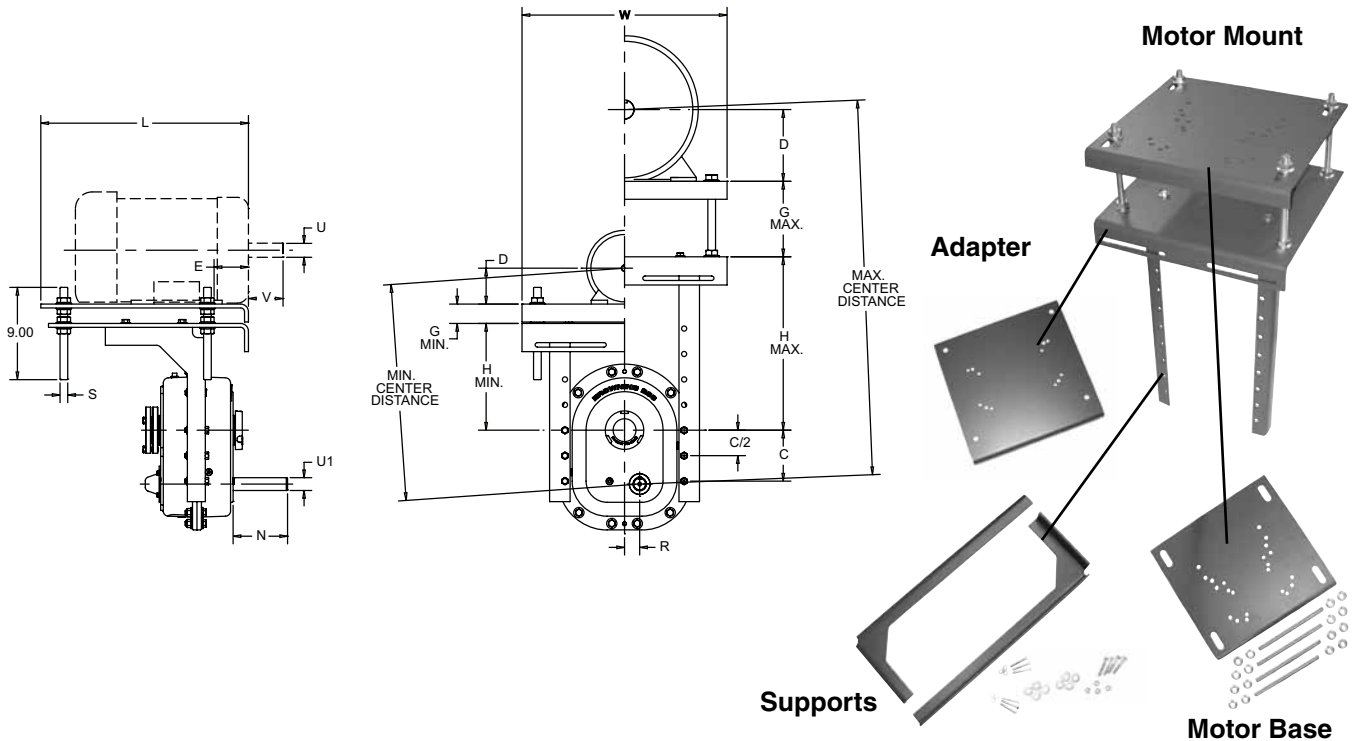


Figure 4 - No bushing

Reducer Size	Shaft Dia.	Shaft Keyseat	Bushing Kit No.	Fig.	Wt. Lbs.
215SMFP	1 7/16	3/8 x 3/16 x 4	215BU107	1	11.7
	1 1/2	3/8 x 3/16 x 4	215BU108	1	11.4
	1 11/16	3/8 x 3/16 x 4	215BU111	1	10.3
	1 3/4	3/8 x 3/16 x 4	215BU112	1	9.9
	1 7/8	1/2 x 1/4 x 4	215BU114	1	9.1
	1 15/16	1/2 x 1/4 x 4	215BU115	2	8.7
	2	1/2 x 1/4 x 4	215BU200	2	8.3
	2 3/16	1/2 x 1/4 x 4	215BU203	2	6.9
	2 1/4	1/2 x 1/4 x 4	215BU204	2	6.4
	2 7/16	5/8 x 5/16 x 4	215BU207	2	4.8
	2 1/2	5/8 x 5/16 x 4	215BU208	2	4.3
	2 11/16	5/8 x 5/16 x 4	215BU211	2	2.5
	2 15/16	3/4 x 3/8 x 4	None	4	-
307SMFP	1 15/16	1/2 x 1/4 x 4 1/2	307BU115	1	16.2
	2	1/2 x 1/4 x 4 1/2	307BU200	1	15.7
	2 3/16	1/2 x 1/4 x 4 1/2	307BU203	1	14.1
	2 1/4	1/2 x 1/4 x 4 1/2	307BU204	1	13.6
	2 7/16	5/8 x 5/16 x 4 1/2	307BU207	2	11.8
	2 1/2	5/8 x 5/16 x 4 1/2	307BU208	2	11.2
	2 11/16	5/8 x 5/16 x 4 1/2	307BU211	2	9.3
	2 7/8	3/4 x 3/8 x 4 1/2	307BU214	2	7.1
	2 15/16	3/4 x 3/8 x 4 1/2	307BU215	2	6.4
	3 7/16	7/8 x 7/16 x 4 1/2	None	4	-
315SMFP	2 7/16	5/8 x 5/16 x 4 1/2	315BU207	1	19.2
	2 1/2	5/8 x 5/16 x 4 1/2	315BU208	1	18.6
	2 11/16	5/8 x 5/16 x 4 1/2	315BU211	2	16.6
	2 13/16	3/4 x 3/8 x 4 1/2	315BU213	2	15.2
	2 7/8	3/4 x 3/8 x 4 1/2	315BU214	2	14.5
	2 15/16	3/4 x 3/8 x 4 1/2	315BU215	2	13.8
	3	3/4 x 3/8 x 4 1/2	315BU300	2	13.1
	3 3/16	3/4 x 3/8 x 4 1/2	315BU303	2	10.7
	3 7/16	7/8 x 7/16 x 4 1/2	315BU307	2	7.4
	3 15/16	1 x 1/2 x 4 1/2	None	4	-

Note: SMFP units and bushings are made-to-order. Contact Emerson for delivery.

Top Mount Motor Mounts



Motor Frame Size	Dimensions in Inches				
	D	E	U		V
			Dia.	Keyseat	
56	3.50	2.75	0.63	3/16 x 3/32	1.88
143T, 145T	3.50	2.25	0.88	3/16 x 3/32	2.25
182T, 184T	4.50	2.75	1.13	1/4 x 1/8	2.75
213T, 215T	5.25	3.50	1.38	5/16 x 5/32	3.38
254T, 256T	6.25	4.25	1.63	3/8 x 3/16	4.00
284T, 286T	7.00	4.75	1.88	1/2 x 1/4	5.63
324T, 326T	8.00	5.25	2.13	1/2 x 1/4	5.25
364T, 365T	9.00	5.88	2.38	5/8 x 5/16	5.88
404T, 405T	11.00	6.62	2.88	3/4 x 3/8	7.25
444T, 447T	11.00	7.50	3.38	7/8 x 7/16	8.50

* To determine usable input shaft length, see pages 24-26.

Part Number Explanation

Motor Mount components may be ordered individually or as a kit. To order the complete kit use the following format:



Top Mount Motor Mounts

Basic Reducer Size	Motor Mount Support	Motor Mount Adapter	Motor Base	Motor Mount Assy. Wt. Lbs.	DIMENSIONS											
					C	G		H		L	N*	R	S	W	Input Shaft U1	
						Min.	Max.	Min.	Max.						Dia.	Keyseat
107 HIGH	MMS107H	MMA107-115	MB107-115	51.0	3.75	1.64	7.61	8.78	18.15	15.50	4.08	1.18	0.63	16.50	0.75	3/16 x 3/32
107 LOW	MMS107L			48.0												
115 HIGH	MMS115H	MMA203	MB203-207	51.0	4.32	1.64	7.61	6.94	17.74	15.50	4.24	1.35	0.63	16.50	1.12	1/4x1/8
115 LOW	MMS115L			48.0												
203 HIGH	MMS203H	MMA207	MB203-207	112.8	4.96	1.89	7.36	7.00	16.91	20.25	5.31	1.48	0.75	20.00	1.25	1/4 x 1/8
203 LOW	MMS203L			107.8												
207 HIGH	MMS207H	MMA207	MB203-207	118.6	5.94	1.89	7.36	8.06	19.94	20.25	5.12	1.63	0.75	20.00	1.44	3/8x3/16
207 LOW	MMS207L			112.6												
215 HIGH	MMS215H	MMA215	MB215-307	134.4	6.88	1.89	7.36	11.43	21.75	20.25	5.87	2.13	0.75	24.00	1.87	1/2 x 1/4
215 LOW	MMS215L			126.4												
307 HIGH	MMS307H	MMA307	MB215-307	150.0	7.95	1.89	7.36	10.28	26.18	20.00	7.45	2.25	0.75	24.00	2.00	1/2 x 1/4
307 LOW	MMS307L			141.0												
315 HIGH	MMS315H	MMA315	MB315	177.0	8.29	1.89	7.36	10.50	27.09	23.50	8.32	2.63	0.75	24.00	2.13	1/2x1/4
315 LOW	MMS315L			168.0												
407 HIGH	MMS407H	MMA407-415	MB407-415	326.0	9.25	3.09	12.98	14.59	19.21	27.00	6.70	3.13	1.50	32.50	2.12	1/2 x 1/4
415 HIGH	MMS415H			333.0												
507 HIGH	MMS507H	MMA507-608	MB507-608	392.0	11.78	3.09	12.98	15.08	20.97	30.00	9.37	4.19	1.50	37.00	2.62	5/8 x 5/16
608 HIGH	MMS608H			403.0												
800 HIGH	MMS800H	MMA800	MB800	604.0	-	3.27	12.87	27.26	27.26	31.00	12.75	4.88	1.50	39.50	2.94	3/4 x 3/8

Shaft Mount Accessories

Basic Reducer Size	Motor Mount Support	Motor Mount Adapter	Motor Base	Minimum and Maximum Center Distances (in inches) for Motor Frame Sizes																			
				56		143T, 145T		182T, 184T		213T, 215T		254T,256T		284T, 286T		324T, 326T		3641, 365T		404T, 405T		444T, 447T	
				Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
107 HIGH	MMS107H	MMA107-115	MB107 115	17.73	33.05	17.73	33.05	18.72	34.05	19.47	34.80	-	-	-	-	-	-	-	-	-	-	-	
107 LOW	MMS107L			14.71	24.41	14.71	24.41	15.71	25.41	16.45	26.16	-	-	-	-	-	-	-	-	-	-	-	
115 HIGH	MMS115H			16.50	33.24	16.50	33.24	17.50	34.24	18.25	34.99	-	-	-	-	-	-	-	-	-	-	-	
115 LOW	MMS115L			17.32	25.43	17.32	25.43	18.32	26.43	19.06	27.18	-	-	-	-	-	-	-	-	-	-	-	
203 HIGH	MMS203H	MMA203	MB203 207	17.70	33.06	17.70	33.06	18.70	34.06	19.44	34.81	20.44	35.81	21.19	36.56	-	-	-	-	-	-	-	
203 LOW	MMS203L			18.64	26.57	18.64	26.57	19.63	27.57	20.38	28.32	21.38	29.31	22.13	30.06	-	-	-	-	-	-	-	
207 HIGH	MMS207H	MMA207		19.59	36.91	19.59	36.91	20.59	37.91	21.34	38.66	22.34	39.66	23.08	40.41	-	-	-	-	-	-	-	
207 LOW	MMS207L			21.97	27.42	21.97	27.42	22.96	28.42	23.71	29.17	24.71	30.17	25.46	30.92	-	-	-	-	-	-	-	
215 HIGH	MMS215H	MMA215	MB215-307	-	-	23.92	39.67	24.92	40.67	25.67	41.42	26.66	42.42	27.41	43.17	28.41	44.17	29.41	45.17	-	-	-	
215 LOW	MMS215L			-	-	23.00	28.45	23.99	29.44	24.74	30.19	25.74	31.19	26.48	31.94	27.48	32.94	28.48	33.94	-	-	-	
307 HIGH	MMS307H	MMA307	MB215-307	-	-	-	-	24.56	45.88	25.30	46.63	26.30	47.63	27.05	48.38	28.05	49.38	29.05	50.38	-	-	-	
307 LOW	MMS307L			-	-	-	-	33.97	34.72	33.97	34.72	35.72	36.47	36.47	37.47	37.47	38.47	38.47	39.47	39.47	-	-	-
315 HIGH	MMS315H	MMA315	MB315	-	-	-	-	25.57	47.55	26.31	48.30	27.31	49.30	28.05	50.05	29.05	51.05	30.05	52.05	-	-	-	
315 LOW	MMS315L			-	-	-	-	35.14	35.89	35.89	36.89	36.89	37.89	37.89	38.89	38.89	39.89	39.89	40.89	40.89	-	-	-
407 HIGH	MMS407H	MMA407-415	MB407-415	-	-	-	-	-	-	32.56	47.04	33.55	48.03	34.30	48.78	35.29	49.78	36.29	50.78	37.29	51.78	38.28	52.77
415 HIGH	MMS415H			-	-	-	-	-	-	32.27	47.29	33.26	48.29	34.00	49.04	35.00	50.03	36.00	51.03	37.00	52.03	38.00	53.03
507 HIGH	MMS507H	MMA507-608	MB507-608	-	-	-	-	-	-	-	-	36.43	52.15	37.18	52.90	38.17	53.90	39.17	54.89	40.16	55.89	41.16	56.89
608 HIGH	MMS608H			-	-	-	-	-	-	-	-	39.43	53.80	40.17	54.54	41.17	55.54	42.16	56.54	43.16	57.53	44.15	58.53
800 HIGH	MMS800H	MMA800	MB800	-	-	-	-	-	-	-	-	-	-	-	-	54.00	63.55	54.98	64.55	55.98	65.55	56.97	66.54

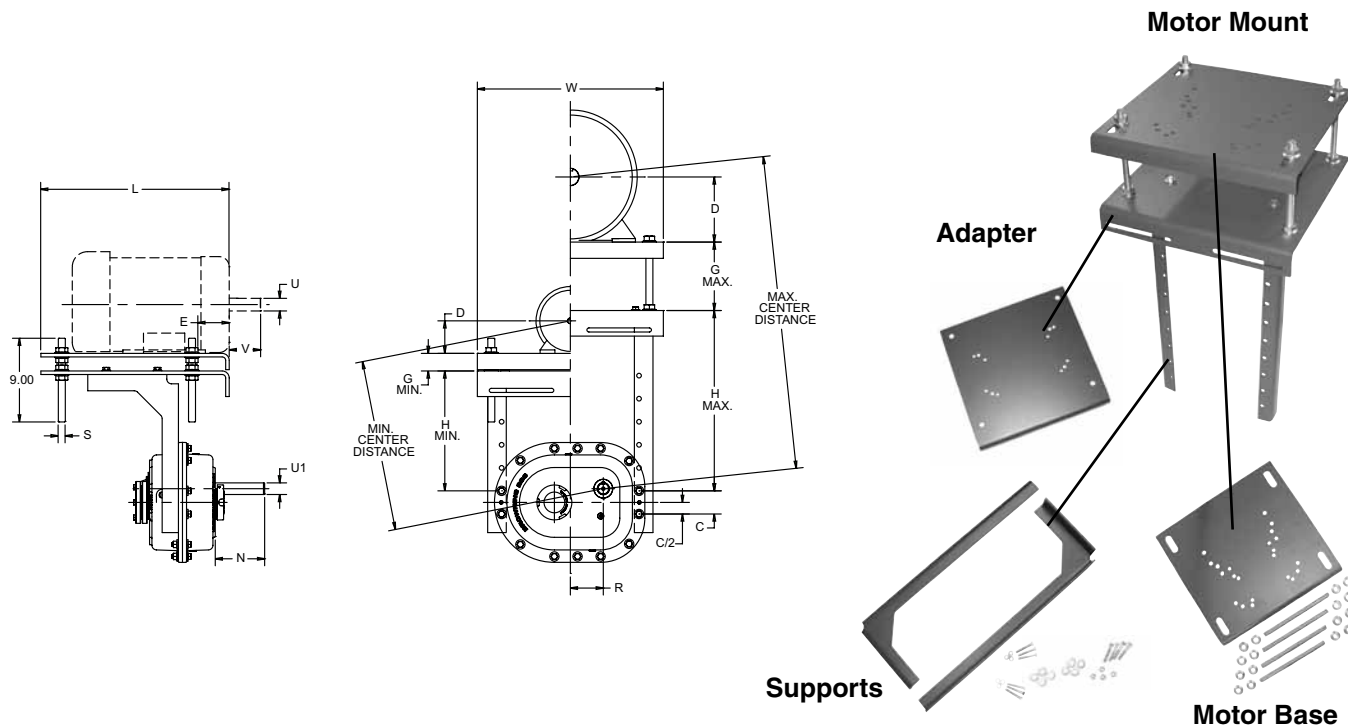
Screw Conveyor Trough Clearance Table

When a motor mount is used on screw conveyor drives, the amount shown in the table below must be added to the minimum center distance shown above. Maximum center distance is unchanged.

Basic Reducer Size	Conveyor Diameter								
	6	9	10	12	14	16	18	20	24
107 HIGH	0	0	1.88	3.75	3.75	3.75	5.63	7.50	N/A
107 LOW	1.88	3.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A
115 HIGH	0	2.16	2.16	4.32	4.32	6.68	8.64	8.64	N/A
115 LOW	0	2.16	2.16	2.16	N/A	N/A	N/A	N/A	N/A
203 HIGH	0	2.48	2.48	4.96	4.96	7.44	9.92	9.92	N/A
203 LOW	0	2.48	2.48	2.48	N/A	N/A	N/A	N/A	N/A
207 HIGH	N/A	2.97	2.97	2.97	5.94	5.94	8.91	8.91	N/A
207 LOW	N/A	0	0	0	N/A	N/A	N/A	N/A	N/A
215 HIGH	N/A	0	0	0	3.44	3.44	3.44	6.88	10.32
215 LOW	N/A	0	0	0	N/A	N/A	N/A	N/A	N/A
307 HIGH	N/A	N/A	N/A	0	3.98	3.98	3.98	7.95	11.93
307 LOW	N/A	N/A	N/A	0	3.98	3.98	3.98	N/A	N/A
315 HIGH	N/A	N/A	N/A	0	4.15	4.15	4.15	8.30	12.45
315 LOW	N/A	N/A	N/A	0	4.15	4.15	4.15	N/A	N/A
407 HIGH	N/A	N/A	N/A	0	4.69	4.69	4.69	4.69	*

* Refer to Application Engineering (1 800 626 2093).

Side Mount Motor Mounts



Motor Frame Size	Dimensions in Inches				
	D	E	U		V
			Dia.	Keyseat	
56	3.50	2.75	0.63	3/16 x 3/32	1.88
143T, 145T	3.50	2.25	0.88	3/16 x 3/32	2.25
182T, 184T	4.50	2.75	1.13	1/4 x 1/8	2.75
213T, 215T	5.25	3.50	1.38	5/16 x 5/32	3.38
254T, 256T	6.25	4.25	1.63	3/8 x 3/16	4.00
284T, 286T	7.00	4.75	1.88	1/2 x 1/4	5.63
324T, 326T	8.00	5.25	2.13	1/2 x 1/4	5.25
364T, 365T	9.00	5.88	2.38	5/8 x 5/16	5.88

* To determine usable input shaft length, see pages 24-26.

Part Number Explanation

Motor Mount components may be ordered individually or as a kit. To order the complete kit use the following format:



307 SIDE LOW MM KIT

Side Mount Motor Mounts

Basic Reducer Size	Motor Mount Support	Motor Mount Adapter	Motor Base	Motor Mount Assy. Wt. Lbs.	Dimensions												Input Shaft U1	
					C	G		H		L	N*	R	S	W			Dia.	Keyseat
						Min.	Max.	Min.	Max.									
107 HIGH	MMS107H	MMA107-115	MB107-115	51.0	1.88	1.64	7.61	8.78	18.15	15.50	4.08	2.56	0.63	16.50	0.75	3/16 x 3/32		
107 LOW	MMS107L			48.0				5.75	9.50									
115 HIGH	MMS115H	MMA203		51.0	2.16	1.64	7.61	6.94	17.74	15.50	4.24	2.74	0.63	16.50	1.12	1/4 x 1/8		
115 LOW	MMS115L			48.0				7.77	9.93									
203 HIGH	MMS203H	MMA207	MB203-207	112.8	2.48	1.89	7.36	7.00	16.91	20.25	5.31	3.54	0.75	20.00	1.25	1/4 x 1/8		
203 LOW	MMS203L			107.8				7.94	10.41									
207 HIGH	MMS207H	MMA215	MB215-307	118.6	2.97	1.89	7.36	8.06	19.94	20.25	5.12	4.00	0.75	20.00	1.44	3/8 x 3/16		
207 LOW	MMS207L			112.6				10.44	10.44									
215 HIGH	MMS215H	MMA307	MB215-307	134.4	3.44	1.89	7.36	11.43	21.75	20.25	5.87	4.59	0.75	24.00	1.87	1/2 x 1/4		
215 LOW	MMS215L			126.4				10.50	10.50									
307 HIGH	MMS307H	MMA315	MB315	150.0	3.97	1.89	7.36	10.28	30.15	23.00	7.45	5.01	0.75	24.00	2.00	1/2 x 1/4		
307 LOW	MMS307L			141.0					18.23									
315 HIGH	MMS315H	MMA315-S	MB315	177.0	4.16	1.89	7.36	10.50	31.22	23.50	8.32	5.26	0.75	24.00	2.13	1/2 x 1/4		
315 LOW	MMS315L			168.0					18.80									

Shaft Mount Accessories

Basic Reducer Size	Motor Mount Support	Motor Mount Adapter	Motor Base	Minimum and Maximum Center Distances (in inches)for Motor Frame Sizes															
				56		143T, 145T		182T, 184T		213T, 215T		254T, 256T		284T, 286T		324T, 326T		364T, 365T	
				Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
107 HIGH	MMS107H	MMA107-115	MB107-115	13.91	31.00	13.91	31.00	14.89	32.00	15.63	32.74								
107 LOW	MMS107L			10.95	22.39	10.95	22.39	11.92	22.38	12.66	24.13	-	-	-	-	-	-	-	
115 HIGH	MMS115H			MMA203	12.25	31.00	12.25	31.00	13.23	32.00	13.96	32.74							
115 LOW	MMS115L				10.96	23.22	10.96	23.22	11.93	24.22	12.66	24.96	-	-	-	-	-	-	-
203 HIGH	MMS203H	MMA207	MB203-207	12.66	30.23	12.66	30.23	13.62	31.22	14.34	31.97	15.31	32.96	16.05	33.71				
203 LOW	MMS203L			13.56	23.76	13.56	23.78	14.53	24.77	15.26	25.52	16.23	26.51	16.96	27.25	-	-	-	-
207 HIGH	MMS207H	MMA215	MB215-307	13.89	33.86	13.89	33.86	14.85	34.85	15.57	35.60	16.54	36.59	17.27	37.34				
207 LOW	MMS207L			13.33	24.45	13.33	24.45	14.28	25.44	15.00	26.18	15.97	27.17	16.70	27.91	-	-	-	-
215 HIGH	MMS215H	MMA307	MB215-307	-	-	13.76	35.94	14.71	36.93	15.42	37.68	16.38	38.67	17.10	39.41	18.07	40.41	19.04	41.41
215 LOW	MMS215L			-	-	12.89	24.82	13.83	25.81	14.54	25.54	15.49	27.53	16.21	28.27	15.55	27.59	16.51	28.58
307 HIGH	MMS307H	MMA315	MB315	-	-	-	-	17.15	42.05	17.87	42.79	18.83	43.79	19.56	44.53	20.53	45.53	21.50	46.52
307 LOW	MMS307L			-	-	-	-	17.15	30.24	17.87	30.98	18.83	31.97	19.56	32.71	20.53	33.70	21.50	34.69
315 HIGH	MMS315H	MMA315-S	MB315	-	-	-	-	17.16	42.86	17.88	43.60	18.84	44.60	19.56	45.34	20.52	46.33	21.49	47.33
315 LOW	MMS315L			-	-	-	-	17.16	30.56	17.88	31.29	18.84	32.28	19.56	33.02	20.52	34.01	21.49	35.00

Screw Conveyor Trough Clearance Table

When a motor mount is used on screw conveyor drives, the amount shown in the table below must be added to the minimum center distance shown on page 71. Maximum center distance is unchanged.

Basic Reducer Size	Conveyor Diameter								
	6	9	10	12	14	16	18	20	24
107 HIGH	0	0	0	0	1.88	3.75	5.63	7.50	N/A
107 LOW	0	1.88	1.88	3.75	5.63	N/A	N/A	N/A	N/A
115 HIGH	0	2.16	2.16	2.16	4.32	6.48	6.48	8.64	N/A
115 LOW	0	2.16	2.16	4.32	N/A	6.48	N/A	N/A	N/A
203 HIGH	0	2.48	2.48	2.48	4.96	4.96	7.44	9.92	N/A
203 LOW	0	0	0	2.48	2.48	4.96	N/A	N/A	N/A
207 HIGH	N/A	0	0	2.97	2.97	5.94	5.94	8.91	11.88
207 LOW	N/A	0	0	2.97	2.97	5.94	5.94	N/A	N/A
215 HIGH	N/A	0	0	3.44	3.44	6.88	6.88	6.88	10.32
215 LOW	N/A	0	3.44	3.44	3.44	6.88	6.88	N/A	N/A
307 HIGH	N/A	N/A	N/A	0	0	3.98	3.98	3.98	7.95
307 LOW	N/A	N/A	N/A	0	0	3.98	3.98	3.98	7.95
315 HIGH	N/A	N/A	N/A	0	0	4.15	4.15	4.15	8.30
315 LOW	N/A	N/A	N/A	0	0	4.15	4.15	4.15	8.30

* Refer to Application Engineering (1 800 626 2093).





Browning Belt Drives

For over 120 years Browning has been an innovator of quality belt drive solutions for varying equipment and demanding applications. Today, Browning offers the most extensive belt drive product line in the world. Our extensive offering has many patented and exclusive design features not found in any other sheave.

Shaft Mount
Accessories

Key Product Offerings:

Complete Line of FHP sheaves

Complete Line of Multiple Sheaves in both Q-D® and Split Taper™ designs

Browning Split Taper Bushings

- Better concentricity for easy assembly
- Key-to-key drive
- 3/4" ft. self-locking taper
- Available in inch and metric bores

Browning Patented B5V® Sheaves (*Not for use with Banded Belts*)

- Interchanges with popular Q-D and Split Taper sheave designs
- Patented design provides the power of 5V belts in the economy of a B section sheave.
- Serves 90% of all applications from 10-125 HP
- Increases HP by 40% (or reduces cost by 40%)

Browning Brand V-belts

- Unique design enhances performance, provides increased horsepower capacity in short center drives
- Single fabric design reduces vibration (wrapped belt)
- Ground form edges reduce center distance variation and drive vibration (raw edge)
- Browning belts and sheaves provide 4X the product offering of any competitor

Browning VP Vortex Variable Pitch Sheaves

- Increased wall thickness and hub design for increased horsepower capacity and shorter center drives
- Tighter tolerances for reduced vibration
- External rib design provides extra cooling for longer belt life

Browning MVP® - Variable Pitch Sheaves

- Economical and infinite mechanical speed adjustment
- Offered up to 10 grooves
- Serves applications up to 750 hp
- **An excellent solution for dual drive applications**



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 107SMTP05

107SMTP05 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
90 - 96	2VP50	-	2B5V160	B	BX	2
97 - 108	2VP56					
109 - 124	2VP50		2AK124H	H	AX	
125 - 140			2B5V110	B		
141 - 160	2VP42		2B5V80			
161 - 181	2VP60		2BK110H	H	BX	
182 - 196	2VP65					
197 - 206	2VP60				5VX	
207 - 220	2VP65				AX	
221 - 227			2B5V90	B	5VX	
228 - 235					AX	
236 - 246	2VP71				BX	
247 - 252					5VX	
253 - 273	2VP65					
274 - 285	2VP71		2BK80	-	BX	
286 - 296	2VP62		2B5V52		5VX	
297 - 303	2VP65				BX	
304 - 307	2VP62		2B5V62	B	5VX	
308 - 309						
310 - 324	2VP65					
325 - 350	2VP71					
351 - 353	2VP60					
354 - 383	2VP65		2B5V52		BX	
384 - 400	2VP71					

107SMTP05 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
90 - 93	2AK39	-	2AK144H	H	AX	
94 - 97	2AK41					
98 - 104	2BK36					
105 - 110	2TB40	P1	2B5V124	B	BX	
111 - 115	2B5V42					
116 - 121	2BK32					
122 - 129	2BK34	-	2BK100		AX	
130 - 136	2BK36					
137 - 143	2BK40					
144 - 147	2TB40	P1			BX	
148 - 151	2BK36					
152 - 160	2BK40	-				
161 - 164	2TB38	P1			BX	
165 - 172	2BK45					
173 - 180	2BK47	-				
181 - 184	2B5V42	P1			AX	
185 - 192	2BK50					
193 - 200	2BK52					
201 - 213	2BK55	-			BX	
214 - 226	2AK54					
227 - 234	2AK56					
235 - 244	2AK84				AX	
245 - 250	2BK57					
251 - 263	2BK60					
264 - 273	2BK62				BX	
274 - 280	2BK65					
281 - 283	2B5V50					
284 - 300	2BK57	B			H	
301 - 317	2BK60					
318 - 328	2BK62					
329 - 337	2BK57				BX	
338 - 356	2BK60					
357 - 369	2BK62					
370 - 387	2BK65				H	
388 - 400	2BK67					

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 107SMTP09

107SMTP09 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
16 - 20	2VP36	-	2TB300	Q1	AX	2	
21 - 23	2VP42		2B5V200	B	BX		
24 - 30	2VP36				AX		
31	2VP42				BX		
32 - 37					2AK184H		H
38 - 44	2VP50						
45 - 49	2VP56						
50 - 54	2VP60						
55 - 56	2VP65						
57 - 58	2VP50		2B5V136	B			
59 - 61							
62 - 65	2VP56		2B5V90	H	BX		
66 - 73	2VP42						
74 - 81	2VP56		2BK120H				
82 - 83	2VP60						
84 - 95	2VP65		2B5V110	B	AX		
96 - 103					BX		
104 - 106					AX		
107 - 113					BX		
114 - 117	2VP71						
118 - 123	2VP75		2B5V86	B	5VX		
124 - 125	2VP60						
126 - 135	2VP65						
136 - 138	2VP71						
139 - 148	2VP60						
149 - 156	2VP65		2B5V68		BX		
157 - 170	2VP71						
171 - 186	2VP65						
187 - 200			2B5V58		5VX		

107SMTP09 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
12	2AK23	-	2TB380	Q1	AX	2
13	2AK25		3TB380			3
14	2AK26					
15	3BK32					
16	3BK34					
17	3BK36					
18	3BK40	H		2B5V200		
19 - 20	3BK45H					
21	3BK47H					
22	2AK22					
23	2AK23					
24	2BK28					
25	2AK25	-	2TA195	Q1	BX	
26	2AK26					
27	2AK27					
28 - 29	2AK28					
30 - 31	2AK30					
32 - 33	2AK32					
34	2AK34	P1	2BK190H	H	2	
35 - 36	2BK32					
37 - 38	2BK34					
39 - 40	2BK36					
41 - 42	2BK40					
43 - 44	2TB38					
45	2BK45	-	2B5V110	B	AX	
46	2BK47					
47 - 49	2BK30					
50 - 53	2BK32					
54 - 56	2AK41					
57 - 60	2AK44					
61 - 63	2AK46		2AK144H	H	2	
64 - 67	2AK49					
68 - 69	2AK51					
70 - 73	2AK39					
74 - 79	2AK41					
80 - 83	2AK39					
84 - 88	2AK54	2AK104	-	BX		
89 - 91	2AK56					
92 - 96	2AK59					
97 - 99	2AK51					
100 - 105	2AK54					
106 - 109	2AK56					
110 - 114	2AK59	2AK124H	H	2		
115 - 120	2BK55					
121 - 125	2BK57					
126 - 132	2BK60					
133 - 135	2BK62					
136 - 144	2AK74					
145 - 146	2B5V50	B	2B5V68	B	AX	
147 - 155	2BK57					
156 - 164	2BK60					
165 - 170	2B5V50					
171 - 178	2BK57					
179 - 188	2BK60					
189 - 194	2BK62	-	2BK65H	H	BX	
195 - 198	2B5V66					
199 - 200	2B5V68					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 107SMTP15

107SMTP15 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
10 - 13	2VP36	-	2B5V278	B	AX	2	
14 - 16	2VP42						
17	2VP50						
18 - 23	2VP36		2AK154H	H			
24 - 29			2AK124H				
30 - 31			2AK114H				
32 - 38	2VP42		2AK94	-			
39 - 46			2AK84				
47 - 52							
53 - 59	2VP50		2B5V90	B			
60 - 65	2VP56		2AK74	-			
66 - 71	2VP50		2B5V66	B			
72 - 80			2AK61	-			
81 - 83							
84 - 93	2VP60		2B5V68	B	BX		
94	2VP65				AX		
95 - 100							
101 - 105	2VP60		2B5V60		AX		
106 - 113							
114 - 126	2VP65		2BK60	-	BX		
127 - 130	2VP71						

107SMTP15 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
7	2AK22	-	2TB380	Q1	AX	2
8	2AK25					
9	2AK21					
10	2AK23		2B5V278	B		
11	2AK25					
12	2BK25					
13	2AK22					
14	2AK23		2B5V200			
15	2AK25					
16	2AK27					
17	2AK22		2BK160H	H		
18	2AK28					
19 - 20	2AK30		2AK184H			
21	2AK32					
22	2AK34					
23	2AK22					
24	2AK23					
25 - 26	2BK28		2BK120H			
27 - 28	2AK26					
29	2AK27					
30	2AK28					
31 - 32	2AK30		2AK114H			
33 - 34	2AK32					
35 - 36	2AK34					
37 - 38	2AK32					
39 - 40	2AK34		2AK104	-		
41 - 43	2AK30					
44 - 46	2AK32		2TA82	Q1		
47 - 49	2AK34					
50	2AK44		2AK104	-		
51 - 52	2AK46					
53 - 56	2AK49					
57 - 58	2AK51					
59 - 62	2AK44					
63 - 65	2AK46		2AK84			
66 - 69	2AK49					
70 - 72	2AK51					
73 - 77	2AK54					
78 - 82	2AK44		2AK64			
83	2AK46					
84 - 87	2AK54		2AK74			
88 - 91	2AK56					
92 - 96	2AK59					
97 - 99	2AK61					
100 - 104	2AK64					
105 - 107	2AK54					
108 - 111	2AK46		2AK61			
112 - 113	2AK59					
114 - 119	2BK57		2B5V52	B	BX	
120 - 126	2BK60					
127 - 130	2BK62					

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 107SMTP25

107SMTP25 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
6 - 7	2VP36	-	2B5V278	B	AX	2	
8 - 10			2B5V200				
11 - 14			2AK154H	H			
15 - 19			2AK114H				
20 - 26	2VP42		2AK84	-			
27 - 31			2B5V88	B			
32 - 38			2AK56	-			
39 - 47			2AK49				
48 - 53			2VP50	2AK56			
54 - 57							
58 - 64	2VP56						
65 - 70	2VP50		2B5V42	P1			BX
71 - 77					AX		
78 - 80	2VP56						

107SMTP25 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
5	2AK20	-	2B5V278	B	AX	2
6	2AK23					
7	2AK27					
8	2AK20		2BK190H	H		
9	2AK23					
10	2AK25					
11	2AK28		2AK184H			
12	2AK30					
13	2AK34					
14	2BK25		2BK110H			
15	2AK22					
16	2AK23					
17	2AK25		2B5V86			
18 - 19	2AK22					
20	2BK28					
21	2AK25					
22	2AK26					
23 - 24	2AK34			2AK104		
25 - 26	2AK39					
27 - 28	2AK28					
29 - 30	2AK30			2AK74		
31 - 32	2AK32					
33 - 34	2AK34					
35	2AK30		2AK64			
36 - 37	2AK32					
38 - 40	2AK34					
41 - 43	2AK39		2AK61			
44 - 45						
46 - 48	2AK41			2AK51		
49 - 51	2AK44					
52 - 54	2AK46					
55 - 58	2AK49					
59 - 62	2AK44					
63 - 65	2AK46					
66 - 69	2AK49					
70 - 72	2AK51					
73 - 77	2AK54					
78 - 80	2AK56					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 107SMTP35

107SMTP35 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
5 - 6	2VP36	-	2TA45	Q1	AX	2
7	2VP42					
8	2VP50					
9 - 11	2VP36		2AK134H	H		
12 - 13	2VP42					
14	2VP36		2AK104	-		
15 - 17	2VP42					
18 - 21	2VP36					
22 - 25	2VP42		2AK74			
26 - 31	2VP36					
32 - 38	2VP42		2AK49			
39 - 45			2B5V42	P1		
46 - 50			2TB38			

107SMTP35 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
5	2AK20	-	2B5V200	B	AX	2
6	2AK23					
7	2AK27					
8	2AK20		2B5V124			
9	2AK22					
10	2AK25					
11	2AK26		2B5V86			
12	2AK25					
13	2AK22					
14	2AK23		2B5V68			
15	2AK25					
16	2AK26					
17	2AK22		2B5V56			
18	2AK23					
19	2AK25					
20	2AK22		2BK55H			
21 - 22	2AK23					
23	2AK25					
24	2AK26		2AK54	H		
25	2AK23					
26 - 27	2AK25					
28	2AK26		2AK49			
29	2AK27					
30 - 31	2AK32					
32 - 33	2AK34		2AK54			
34 - 35	2AK32					
36 - 37	2AK34					
38 - 39	2AK39		2AK49			
40 - 41	2AK41					
42 - 44	2AK44					
45 - 46	2AK46		2AK51			
47 - 48	2AK49					
49 - 50	2AK32					
			2AK32	-		

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 115SMTP05

115SMTP05 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
90 - 95	2VP65	-	2B5V34	B	BX	2
96 - 105	2VP71					
106 - 110	2VP75					
111 - 113	2VP62		2B5V184		5VX	
114 - 122	2VP65					
123 - 134	2VP71					
135 - 140	2VP75					
141 - 150	2VP60		2B5V136		BX	
151 - 164	2VP65					
165 - 179	2VP71					
180 - 193	2VP71		2B5V124		5VX	
194 - 196	2VP75					
197 - 208	2VP75		2Q5V109	Q1		
209 - 210	2VP65					
211 - 229	2VP71		2B5V94	B		
230 - 242	2VP75					
243 - 261	2VP71		2B5V80	-		
262 - 276	2VP75					
277 - 280	2VP65					
281 - 306	2VP71					
307 - 310	2VP75					
311 - 330	2VP71					
331 - 337	2VP75					
338 - 349	2V58B70					
350 - 367	2V68B80					
368 - 386	2MVP80B94Q					
387 - 400	2V58B70					
		2B5V86	BX			
		1B5V64	5VX			

115SMTP05 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
90 - 91	3TB36	P2	3B5V160	B	BX	3	
92 - 96	3TB38	P1					
97 - 98	3BK45H	H					
99 - 100	3BK47H						
101 - 104	3BK52H				AX		
105 - 106	2BK55	-	2BK190H	H	BX		
107 - 110	2BK57						
111 - 116	2BK60						
117 - 121	2BK62						
122 - 124	2BK65						
125 - 132	2B5V42	P1	2B5V124	B	5VX	2	
133 - 138	2B5V44						
139 - 143	2BK55	-	2B5V136		BX		
144 - 149	2BK57						
150	2B5V52	B					
151 - 157	2BK60	-					
158 - 161	2BK62						
162 - 168	2B5V54	B	2B5V124		5VX		
169 - 174	2B5V56						
175 - 181	2B5V58						
182 - 187	2B5V60						
188 - 193	2B5V62						
194 - 202	2B5V64						
203 - 208	2B5V66		BX				
209 - 214	2B5V68						
215 - 224	2B5V50			2B5V86	5VX		
225 - 233	2B5V52						
234 - 242	2B5V54						
243 - 244	2B5V56						
245 - 257	2B5V60						
258 - 265	2B5V62		2B5V90				
266 - 274	2B5V64						
275 - 282	2B5V66						
283 - 290	2B5V68						
291 - 297	2B5V80			2BK110H	H	BX	
298 - 312	2B5V60	2B5V74		B	5VX		
313 - 322	2B5V62						
323 - 330	2B5V64						
331 - 333	2B5V90	2BK110H	H	BX			
334 - 347	2B5V94						
348 - 363	2B5V70						
364 - 383	2B5V74	2B5V74	B	5VX			
384 - 394	3V5V70						
395 - 400	3B5V74						

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 115SMTP09

115SMTP09 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
16 - 20	2VP36	-	2TB300	Q1	AX	2
21 - 25	2VP42					
26 - 29	2VP50					
30 - 33	2VP56		2B5V234	B	BX	
34 - 38	2VP50					
39 - 43	2VP56					
44 - 46	2VP60		2B5V136	B	AX	
47 - 54	2VP42					
55 - 58	2VP56					
59 - 64	2VP60		2B5V160	B	5VX	
65 - 70	2VP65					
61 - 75						
76 - 78	2VP71		2B5V136	B	BX	
79 - 85	2VP65					
86 - 95	2VP71					
96 - 100	2VP75		2B5V110	B	5VX	
101 - 107	2VP65					
108 - 117	2VP71					
118 - 133	2VP65		2B5V90	B	BX	
134 - 142	2VP71					
143 - 145						
146 - 160	2VP65		2B5V74	B	5VX	
161 - 175	2VP71					
176 - 185	2VP75					
186 - 191	2VP65		2B5V62	B	5VX	
192 - 200	2VP71					

115SMTP09 Fixed Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Fixed Pitch	Bushing	Fixed Pitch	Bushing				
12	2AK23	-	2TB380	Q1	AX	2		
13	2AK25							
14	2AK26							
15	2AK23		2TB300	Q1				
16	2BK28							
17	2AK25							
18	2AK27		2B5V250	B				
19	2AK23							
20	2AK25							
21	2AK26							
22	2AK27							
23	2BK32							
24 - 25	2H3V31	H	2Q3V250	Q1	3VX			
26 - 27	2H3V33							
28 - 29	2H3V36							
30 - 31	3BK32	-	3BK190H	H	AX	3		
32 - 33	3BK34							
34 - 36	3BK36			B				
36 - 38	3BK40							
39 - 40	3TB38	P1	2BK160H	H	BX	2		
41 - 43	2BK32	-						
44 - 45	2BK34						P1	
46 - 48	2TB38							
49 - 51	2TB40	-	2B5V124	H	AX			
52 - 54	2BK45				BX			
55 - 56	2BK34						AX	
57 - 58	2TB38							
59 - 61	2BK45	-	2B5V136	B	BX			
62 - 64	2BK47						P1	
65 - 66	2B5V42							-
67 - 69	2BK50							
70 - 72	2BK52	B	2B5V124	H	BX			
73 - 74	2B5V52					-		
75 - 78	2BK52						P1	
79 - 83	2BK55							
84 - 87	2BK57	-	2B5V124	H	BX			
88 - 91	2BK60							
92 - 93	2BK52							
94 - 99	2BK55							
100 - 103	2BK57	-	2BK110H	H	BX			
104 - 109	2BK60							
110 - 112	2BK62							
113 - 119	2BK55							
120	2BK57	B	2B5V86	B	5VX			
121 - 124	2B5V52							
125 - 129	2B5V54							
130 - 134	2B5V56		2B5V94	B				
135 - 141	2B5V64							
142 - 145	2B5V66							
146 - 149	2B5V68		2BK90	-	BX			
150 - 157	2B5V64							
158 - 162	2B5V66							
163 - 167	2B5V68		2B5V74	B	5VX			
168	2B5V70							
169 - 171	2B5V62							
172 - 175	2B5V64	2B5V66	B					
176 - 186	2B5V80							
187 - 192	2B5V62							
193 - 198	2B5V64	2BK90	-	BX				
199 - 200	2B5V86							

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 115SMTP15

115SMTP15 Variable Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Variable Pitch	Bushing	Fixed Pitch	Bushing				
10 - 13	2VP36	-	2V5V278	B	AX	2		
14 - 16	2VP42							
17 - 19	2VP50							
20 - 22	2VP36							
23 - 28	2VP42		2AK154H	H				
29 - 32			2AK134H					
33 - 36			2AK144H					
37 - 41	2VP56		2B5V86	B	BX			
42 - 50	2VP42		2BK80	-				
51 - 58			2VP65	2B5V110	B		AX	
62 - 63	BX							
64 - 67	2B5V86						AX	
68 - 69							2B5V68	BX
70 - 73			2VP60					AX
74 - 78			2VP65					BX
79 - 81	2VP65		2B5V86	B	AX			
82 - 87	2VP71		2B5V68	-	AX			
88					BX			
89 - 93	2VP60				2B5V58		B	BX
94 - 101	2VP65							
102 - 106	2VP71							
107 - 111								
112 - 120	2VP65		2BK62	-	BX			
121 - 130	2VP71		2B5V58	B				

115SMTP15 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
7	3BK27	-	3TB380	Q1	AX	3
8	3BK30					
9	3BK32					
10	3BK36		2B5V250	B		
11	2AK23					
12	2AK25					
13	2AK27		2BK190H	H		
14	2AK22					
15	2AK23					
16	2AK26		2B5V136	B		
17	2AK27					
18	2AK22					
19 - 20	2BK28		2AK154H	H		
21	2BK28					
22	2AK25					
23	2BK30		2AK124H			
24	2AK30					
25	2AK32					
26 - 27	2AK34		2BK90			
28 - 29	2AK39					
30 - 31	2AK41					
32 - 33	2AK44		2AK94			
34	2AK34					
35 - 37	2AK39					
38 - 39	2AK41		2BK80			
40 - 42	2AK44					
43 - 44	2AK46					
45 - 46	2AK49		2BK67			
47 - 49	2BK34					
50 - 51	2BK36					
52 - 53	2TB38		2B5V52	B		
54 - 56	2TB40					
57 - 58	2B5V42					
59 - 61	2BK47	-				
62 - 63	2B5V42					
64 - 65	2BK50					
66 - 68	2BK52	-				
69 - 72	2BK56					
73 - 75	2AK59					
76 - 78	2AK61	2BK60				
79 - 82	2AK64					
83 - 85	2BK57					
86 - 90	2BK60	2BK80				
91 - 93	2BK62					
94 - 99	2BK55					
100 - 103	2BK57	2BK67				
104 - 108	2BK60					
109 - 111	2BK62					
112 - 119	2BK57	2B5V52				
120	2BK60					
121 - 122	2B5V52					
123 - 126	2B5V54	-	B			
127 - 130	2B5V68					
					5VX	
					BX	

Shaft Mount
Accessories

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 115SMTP25

115SMTP25 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
6 - 7	2VP36	-	2B5V278	B	AX	2
8 - 9	2VP42					
10 - 11	2VP50					
12 - 14	2VP36		2AK154H	H		
15 - 16	2VP42					
17 - 21	2VP36		2AK104H			
22 - 24	2VP42		2B5V86	B		
25 - 30			2BK80	-		
31 - 35			2B5V62	B		
36 - 38						
39 - 41						
42 - 50			2B5V50			
51 - 57			2AK56	-	BX	
58 - 61			2AK61			
62 - 67	2BK55		AX			
68 - 76	2VP60				BX	
77 - 80			2BK50			

115SMTP25 Fixed Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Fixed Pitch	Bushing	Fixed Pitch	Bushing				
5	2AK20	-	2B5V278	B	AX	2		
6	2AK23							
7	2BK25		2B5V200	H				
8	2AK22							
9	2AK25							
10	2AK22		2BK160H	H				
11	2BK28							
12	2AK26							
13	2AK22		2B5V124	B	AX			
14	2BK28							
15	2AK26							
16	2AK27		2B5V94	B				
17	2AK22							
18	2AK23							
19	2AK25		2B5V86	H	AX			
20	2AK26							
21	2AK27							
22	2AK26		2AK114H	H	BX			
23 - 24	2BK32							
25	2AK41							
26 - 27	2AK44		2AK74H	H	AX			
28	2AK46							
29 - 30	2AK49							
31 - 32	2AK32		2AK64	B	BX			
33 - 34	2AK34							
35	2AK30							
36 - 37	2AK32		2BK62	-	AX			
38	2AK34							
39 - 40	2BK32							
41 - 43	2BK34		2BK50	-	AX			
44 - 45	2BK36							
46 - 47	2BK40							
48 - 50	2BK32		2AK64	-	BX			
51 - 54	2BK34							
55 - 57	2BK36							
58	2BK40		2AK54	-	BX			
59 - 60	2AK54							
61 - 63	2AK56							
64 - 66	2AK59		2BK55	-	AX			
67 - 69	2AK61							
70 - 71	2AK64							
72	2AK54		2BK55	-	BX			
73 - 75	2AK56							
76 - 78	2AK59							
79 - 80	2BK62							

Notes: Pre-selected belt drives are based on the following guidelines:

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- Average Service at Reducer Rated Load
- 2 Belt Minimum

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Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 115SMTP35

115SMTP35 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
5 - 6	2VP36	-	2TA245	Q1	AX	2	
7	2VP42						
8	2VP50						
9 - 11	2VP36		2AK134H	H			
12 - 14	2VP42						
15 - 17							
18 - 20			2AK84	-			
21 - 22	2VP36		2B5V66	B			
23 - 26	2VP42		2BK62	BX			
27 - 32							
33 - 38							
39 - 42	2VP50		2AK49	-	AX		
43 - 45	2VP56						
46 - 50	2VP50		2AK44				

115SMTP35 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
5	2AK20	-	2B5V200	B	AX	2
6	2BK28					
7	2AK27					
8	2BK25		2B5V124			
9	2AK22					
10	2AK25					
11	2AK26		2B5V86			
12	2BK25					
13	2AK22					
14	2AK23		2B5V66			
15	2AK25					
16	2AK27					
17	2AK22		2BK60			
18	2AK23					
19 - 20	2AK25					
21	2AK22		2AK74H			
22	2AK23					
23 - 24	2AK34					
25 - 26	2AK39		2AK64			
27	2AK41					
28	2AK34					
29 - 30	2AK39		2AK56			
31 - 32	2AK41					
33	2AK44					
34 - 35	2AK39		-			
36 - 37	2AK41					
38 - 40	2AK44					
41 - 42	2AK46		2AK54			
43 - 44	2AK49					
45 - 46	2AK51					
47 - 49	2AK54		2AK44			
50	2AK44					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 203SMTP05

203SMTP05 Variable Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Variable Pitch	Bushing	Fixed Pitch	Bushing				
90 - 99	2VP65	-	2R5V212	R1	5VX	2		
100 - 108	2VP71			B				
109 - 114	2VP75						2B5V200	
115 - 120							2B5V154	
121 - 129	2VP65		2B5V160					
130 - 141	2VP71							
142 - 152	2VP75							
153 - 165	2VP71							
166 - 176	2V58B70	Q2	2TC160	Q1	CX			
177 - 201	2MVP75C97Q							
202 - 204	2MVP85C107Q							
205 - 215	2V58B70						-	2B5V110
216 - 228	2MVP75C97Q	Q2	2C140R	R1	CX			
229 - 239	2MVP85C107Q							
240 - 246	2MVP75C97Q						2TC130	Q1
247 - 272	2MVP85C107Q							
273 - 279	2MVP75C97Q		2TC114					
280 - 291	2MVP85C107Q							
292 - 305	3MVP70B84			-		3MVB90Q	BX	3
306 - 322	4MVP60B74					4MVB74Q		4
323 - 327	2V68B80	2B5V80	B		5VX			
328 - 334	2MVP95C117Q	Q2	2TC114		Q1	CX		2
335 - 360	2MVP105C127Q		2TC114					
361 - 387	2MVP95C117Q							
388 - 400	2MVP105C127Q			2TC98				

203SMTP05 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
90 - 92	3B5V46	B	3BK190H	H	BX	3
93 - 96	3V5V48					
97 - 100	3V5V50					
101 - 103	3B5V52					
104 - 107	3B5V54					
108 - 109	3B5V56					
110 - 116	3B5V62					
117 - 120	2B5V52		2B5V154	B	5VX	2
121 - 122	2B5V62		3BK190H	H	BX	3
123 - 126	3B5V64					
127 - 129	3B5V68					
130 - 134	2B5V58		2B5V154		5VX	2
135 - 139	2B5V60					
140 - 143	2B5V62					
144 - 147	2B5V64		3B5V136		BX	3
148 - 155	3B5V58					
156 - 160	3B5V60					
161 - 165	3B5V62		2B5V136	B	5VX	2
166 - 175	3B5V66					
176 - 180	3B5V68					
181 - 183	2B5V70		2B5V124			
184 - 193	2B5V74					
194 - 200	2B5V70					
201 - 212	2B5V74		2B5V136			
213 - 224	2B5V86					
225 - 234	2B5V90					
235 - 244	2B5V94		3B5V86			
245 - 246	3B5V60					
247 - 254	3B5V62					
255 - 262	3B5V64	3B5V74				
263 - 271	3B5V66					
272 - 286	3B5V60					
287 - 295	3B5V62	2B5V86	Q1			
296 - 305	3B5V64					
306 - 308	3B5V66					
309 - 326	2B5V80	Q1				
327 - 331	2Q4V109					
332 - 352	2B5V110					
353 - 372	3B5V110	3BK110H	H	BX	3	
373 - 386	2B5V136	2B5V124	B	5VX	2	
387 - 400	3B5V110	3B5V94		BX	3	

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 203SMTP09

203SMTP09 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
20 - 24	2VP42		2TB300	Q1	AX	2
25 - 29			2B5V250	B		
30 - 32			2VP50			
37 - 39	2VP60					
40 - 42	2VP65					
43 - 47	2VP71					
48 - 52	2MVP35B49		2BK190H	H	BX	
53 - 59	2VP60					
60 - 64	2VP65					
65 - 70	2VP71					
71 - 74	2VP75					
75 - 80	2VP65		2R5V150	R1	5VX	
81 - 88	2VP71					
89 - 92	2VP75					
93 - 95	2VP71		2B5V136	B	BX	
96 - 100	2VP75				5VX	
101 - 108	2VP65				BX	
109 - 114	2VP71		2B5V110		5VX	
115 - 118						
119 - 125				2VP75		
126 - 135	2VP71		2Q5V97	Q1		
136 - 143	2VP75					
144 - 151	2VP71		2B5V86	B		
152 - 159	2VP75					
161 - 165	2V58B70		2Q5V85	Q1		
166 - 173	4MVP45B59					
174 - 187	4MVP59B64		4MVB64Q	Q2	BX	4
188 - 200	2V58B70		2B5V68	B	5VX	2

203SMTP09 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
12	2AK23	-	2TB380	Q1	AX	2
13	3BK28		3TB380			3
14	3BK30					
15	3BK32					
16	3BK34					
17	3BK36					
18	3BK40					
19 - 20	3BK45H	H	2TB300			
21 - 22	2BK32	-				
23	2BK34					
24	2BK36					
25 - 26	2BK40					
27 - 28	2BK32					
29 - 30	2BK34					
31	2BK36		2B5V234	B	3	
32	2BK40					
33	2BK40H	H				
34 - 36	2BK45	-	2B5V200			
37 - 39	2BK40H	H				
40 - 42	2BK45	-				
43 - 45	2VP71	P2				
46 - 47	3TB34		3BK160H	H		3
48 - 50	3TB36					
51 - 53	3TB38	P1				
54 - 56	2BK47	-	2BK160H		5VX	
57 - 59	2BK50					
60 - 62	2BK52					
63 - 67	2BK55					
68 - 69	2BK57					
70 - 71	2B5V52	B	2B5V136	5VX		
72 - 75	2B5V50					
76 - 78	2B5V52					
79 - 81	2B5V54					
82 - 84	2B5V56					
85 - 87	2B5V58		2B5V124	BX		
88 - 89	2B5V54					
90 - 92	2B5V56					
93 - 95	2B5V58					
96 - 99	2B5V60					
100 - 101	2B5V62	B	2B5V110	5VX		
102 - 107	2B5V64					
108 - 110	2B5V66					
111 - 113	2B5V68					
114 - 115	2B5V62					
116 - 118	2B5V64		2B5V110	B		
119 - 122	2B5V66					
123 - 126	2B5V68					
127 - 128	2B5V70					
129 - 136	2B5V60					
137 - 140	2B5V62	2B5V90	5VX			
141 - 145	2B5V64					
146 - 149	2B5V66					
150 - 154	2B5V68					
155 - 156	2B5V66			2B5V86		
157 - 161	2B5V68					
162 - 165	2B5V70					
166 - 175	2B5V74					
176 - 178	2B5V70	2B8V80				
179 - 188	2B5V74					
189 - 192	2B5V70					
193 - 200	2B5V74	2B5V74				

Shaft Mount Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 203SMTP15

203SMTP15 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
10 - 12	2VP36	-	2B5V278	B	AX	2
13 - 15	2VP42		2B5V250			
16 - 17						
18 - 20	2VP50					
21 - 24	2VP56		2AK184H	H		
25 - 28	2VP50					
29 - 32	2VP56		2BK190H			
33 - 35	2VP60					
36 - 38	2VP65		B	BX		
39 - 41	2VP71					
42 - 44	2VP75					
45 - 50	2VP65					
51 - 56	2VP71			2B5V136		
57 - 58	2VP60			2B5V110		
59 - 62	2VP65					
63 - 69	2VP71					
70 - 73	2VP60					
74 - 79	2VP65			2B5V86	B	
80 - 82						
83 - 87	2VP71					5VX
88 - 95	2VP65					
96 - 101	2VP71					
102 - 113	2VP65					
114 - 123	2VP71			2B5V62		
124 - 130				2B5V58		

203SMTP15 Fixed Pitch									
Output rpm	Driver		Driven		Belts	Belt Qty.			
	Fixed Pitch	Bushing	Fixed Pitch	Bushing					
7	2AK22	-	2TB380	Q1	AX	2			
8	2AK25		2TB300						
9	2AK23								
10	2AK25			3BK190H		B	3		
11	2AK27								
12	3BK30								
13	3BK32		3BK190H	H		3			
14	3BK34								
15	3BK36								
16	3BK40								
17	3BK30								
18	3BK32								
19	3BK34								
20 - 21	3BK36								
22	3BK40								
23	3TB38	P1							
24	3BK45H							H	
25	3BK47H								
26	3B5V42	P1							
27 - 29	2TB38						2BK160H	BX	2
30 - 31	2TB40								
32	2B5V42								
33 - 34	2BK47	-	B						
35 - 36	2BK50								
37	2BK52								
38 - 40	2BK45	2B5V124	B						
41 - 42	2BK47								
43 - 45	2BK50								
46 - 47	2BK52	2BK110H	H						
48 - 49	2B5V48			B					
50 - 52	2BK57								
53 - 55	2BK60	2BK55	H						
56 - 57	2BK62								
58 - 59	2BK55								
60 - 61	2BK57	2B5V86	B						
62 - 65	2BK60								
66 - 67	2BK62								
68 - 71	2BK55	2B5V90	H						
72 - 74	2BK57								
75 - 78	2BK60								
79 - 80	2BK62	2B5V80	B						
81 - 85	2B5V62								
86 - 88	2B5V64								
89 - 90	2B5V66	2B5V64	H						
91 - 93	2B5V68								
94 - 98	2B5V64								
99 - 101	2B5V66	2BK80H	B						
102 - 104	2B5V68								
105 - 106	2B5V64								
107 - 109	2B5V66	2B5V66	B						
110 - 112	2B5V68								
113 - 118	2B5V64								
119 - 121	2B5V66	2B5V62	5VX						
122 - 125	2B5V68								
126 - 128	2B5V66								
129 - 130	2B5V64	2B5V58							

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 203SMTP25

203SMTP25 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
6 - 7	2VP36	-	2B5V278	B	AX	2
8 - 9	2VP42					
10 - 11	2VP50					
12 - 14	2VP42		2AK184H	H		
15 - 17	2VP50					
18 - 19	2VP56					
20 - 23	2VP42		2B4V110	B		
24 - 27	2VP50		2AK114H	H		
28 - 32	2VP56					
33 - 35	2VP60					
36 - 38	2VP65		2AK104H			
39 - 43	2VP60		2B5V86	B		
44 - 48	2VP65					
49 - 52	2VP71					
53 - 55	2VP60		2B5V68			
56 - 61	2VP65					
62 - 69	2VP60					
70 - 71	2VP65		2B5V54			
72 - 80	2VP60		2B5V46			

203SMTP25 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
5	2BK25	-	2B5V278	B	AX	2	
6	2AK23			2BK190H			H
7	2AK27						
8	2BK25						
9	2AK23						
10	2AK25						
11	2AK28						
12	2AK30						
13	2AK34						
14	2AK39						
15	2AK41						
16	2AK44						
17	2AK34						
18 - 19	2AK39						
20	2AK41						
21	2AK44						
22	2AK46						
23 - 24	2AK49	2AK144H	H				
25 - 26	2AK39						
27	2AK41						
28 - 29	2AK39						
30	2AK41						
31 - 32	2TB38	2BK90H		H			
33 - 34							
35 - 36					2BK80H		
37							2BK67H
38 - 39	2BK55H						
40 - 41							
42 - 44							
45 - 46		2BK52			2BK80H		H
47 - 49	2BK55						
50 - 51	2BK57						
52 - 53	2BK60						
54 - 55	2BK62						
56 - 59	2BK55						
60 - 61	2BK57						
62 - 64	2BK60						
65 - 66	2BK62						
67 - 69	2BK57						
70 - 72	2BK60						
73 - 75	2BK62						
76 - 80	2BK60						

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 203SMTP35

203SMTP35 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
5 - 6	2VP36	-	2TA245	Q1	AX	2
7	2VP42					
8	2VP50					
9 - 11	2VP36		2B5V136	B		
12 - 13	2VP42					
14 -16			2AK114H	H		
17 - 19			2AK94H			
20 - 21	2AK104H					
22 - 24	2VP56		B			
25 - 30	2VP42			2BK67H		
31 - 36				2BK55H		
37 - 38			2BK47H			
39 - 43	2VP60		2B5V62	B	AX	
44 - 47	2VP65					
48 - 50	2VP60					

203SMTP35 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
5	2BK25	-	2B5V200	B	AX	2
6	2AK23					
7	2AK27					
8	2BK36					
9	2AK22		2B5V124	H		
10	2BK28					
11	2AK26					
12	2AK32		2AK134H	H		
13	2AK34					
14	2AK39					
15	2AK41					
16	2AK44					
17	2AK46					
18	2AK49					
19	2AK51					
20	2AK39		2AK94H	B		
21 - 22	2AK41					
23	2AK44					
24	2AK46					
25 - 26	2BK32		2B5V62	H	BX	
27 - 28	2BK34					
29	2BK36		2BK57H	B		
30 - 31	2BK32					
32 - 33	2BK34		2B5V46	H		
34 - 35	2BK32					
36 - 37	2BK34					
38	2BK36		2B5V52	H	AX	
39	2BK45					
40 - 41	2BK47		2AK59H	H		
42 - 44	2BK50					
45 - 47	2AK54					
48 - 49	2AK56					
50	2AK59					

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 207SMTP05

207SMTP05 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
90 - 96	2VP71	-	2B5V234	B	5VX	2
97 - 101	2VP75		2B5V184			
102 - 111	2VP65					
112 - 122	2VP71					
123 - 125	2VP75			2B5V200		
126 - 129	2V58B70					
130 - 137	2V68B80					
138 - 148	2V58B70					
149 - 160	2V58B70		2R5V150	R1		
161 - 168	2V68B80		2B5V160	B		
169 - 177	2V58B70		2B5V140	R1		
178 - 187			2B5V124	B		
188 - 198			2B5V136			
199 - 207			2v68B80	2Q5V132		
208 - 219	2Q5V125					
220 - 232	2Q5V118					
233 - 246		2B5V110		B		
247 - 253	2MVP105C127Q	Q2	2TC160	Q1	CX	3
254 - 272	2MVP95C117Q		2C140R	R1		
273 - 294	2MVP105C127Q					
295 - 315						
316 - 331	2MVP95C117Q		2TC130	Q1		
332 - 340			2TC114			
			2TC106			
341 - 357	3MVP85C107Q		3MVC96Q	Q2		
358 - 362	3MVP75C97Q					
363 - 381	3MVP80C102Q					
382 - 400	3MVP85C107Q					

207SMTP05 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
90 - 91	4B5V46	B	4B5V184	B	BX	4
92 - 95	4B5V48					
96 - 99	4B5V50					
100 - 101	4B5V52					
102 - 104	4B5V54		3BK190H	H	3	
105 - 110	4B5V56					
111 - 113	3B5V58					
114 - 121	3B5V62					
122 - 125	3B5V64		2B5V154	B	5VX	2
126 - 129	3B5V66					
130 - 132	3B5V68					
133 - 136	3B5V70					
137 - 148	3B5V74		3B5V124	B		3
149 - 151	2B5V66					
152 - 155	2B5V68					
156 - 160	2B5V70					
161 - 162	2B5V74		2B5V154	B	2	
163 - 165	3B5V58					
166 - 170	3B5V60					
171 - 176	3B5V62					
177 - 181	3B5V64		2B5V124	B	4	
182 - 187	3B5V66					
188 - 193	3B5V68					
194 - 196	2B5V86					
197 - 205	2B5V90	2B5V110	B	2		
206 - 210	2B5V94					
211 - 222	2B5V86					
223 - 232	2B5V90					
233 - 242	2B5V94	2B5V110	B	2		
243 - 246	2Q5V97					
247 - 253	4B5V64					
254 - 258						
259 - 271	2Q5V97	2B5V124	B	2		
272 - 285	2Q5V103					
286 - 302	2Q5V109					
303 - 310	2B5V110					
311 - 321	2Q5V103	2B5V110	B	2		
322 - 329	2Q5V109					
330 - 340	2B5V110					
341 - 349	2B5V124					
350 - 361	2Q5V132	2B5V124	B	2		
362 - 383	2B5V136					
384 - 393	2B5V124					
394 - 400	2Q5V132					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

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- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 207SMTP09

207SMTP09 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
23 - 25	2MVP35B49	-	2TB380	Q1	AX	2
26 - 29	3MVP35B49		3MVB300R	R1		3
30 - 31	3MVP40B54					
32 - 34	2MVP35B49					
35 - 39	2VP60					
40 - 43	2VP65					
44 - 47	2VP71					
48 - 50	2VP75					
51 - 55	2VP71					
56 - 58	2VP75					
59 - 60	2VP65					
61 - 65	2VP71					
66 - 69	2VP75					
70 - 75	2VP65					
76 - 79	2VP71					
80 - 84	3MVP45B59		3MVB136R	R1	BX	3
85 - 90	3MVP50B64					
91 - 97	3MVP55B69					
98 - 104	3MVP60B74					
105 - 113	2MVP85C107Q	Q2	2C180R	Q1	CX	2
114 - 116	2MVP75C97Q		2TC160			
117 - 128	2MVP85C107Q	-	2Q5V118	Q1	5VX	2
129 - 135	2V68B80		2Q5V97			
136 - 146	2V58B70	Q2	2TC120	Q1	CX	2
147 - 153	2MVP75C97Q		2C140R	R1		
154 - 156	2VMP85C107Q	-	4MVB86Q	Q2	BX	4
157 - 171	2MVP105C127Q		4MVB80Q			
172 - 184	4MVP70B84					
185 - 200						

207SMTP09 Fixed Pitch									
Output rpm	Driver		Driven		Belts	Belt Qty.			
	Fixed Pitch	Bushing	Fixed Pitch	Bushing					
15	3BK32	-	3TB380	Q1	AX	3			
16	3BK34								
17	3BK36								
18	3BK40								
19 - 20	3BK45H	H	3TB380	Q1	AX	3			
21	3BK47H								
22	3BK50H								
23	3BK52H								
24 - 25	3TB36	P2	3B5V278	B	BX	2			
26 - 27	3BK45H	H							
28	3TB36	P2			4B5V184		B	AX	4
29 - 30	3BK45H	H							
31	3BK50H								
32	3BK52H								
33	3BK55H		-	2B5V278	B	BX	2		
34 - 35	2BK52								
36 - 37	2BK55								
38 - 39	2BK57								
40	4TB38	P1	4B5V184	B	AX	4			
41 - 42	4TB40								
43 - 44	4TB38								
45 - 46	4TB40								
47 - 49	4B5V42	B	3B5V154	B	BX	3			
50 - 51	4B5V44								
52 - 53	4B5V50								
54 - 56	4B5V52								
57 - 58	3B5V44	P1	3B5V160	B	5VX	2			
59 - 61	3B5V46								
62 - 64	3B5V48								
65 - 67	3B5V50								
68 - 69	3B5V52	B	3B5V160	B	BX	2			
70 - 74	3B5V56								
75 - 76	3B5V58								
77 - 79	3B5V60								
80 - 84	2B5V66	B	2B5V160	B	5VX	3			
85 - 87	2B5V68								
88 - 90	2B5V70								
91 - 95	2B5V74								
96 - 101	3B5V54	B	3B5V110	B	5VX	2			
102 - 103	3B5V56								
104 - 108	3B5V58								
109 - 112	3B5V60								
113 - 115	3B5V62	B	3B5V110	B	5VX	3			
116 - 119	3B5V64								
120 - 123	3B5V66								
124 - 125	3B5V68								
126 - 129	2B5V86	B	2B5V136	B	5VX	2			
130 - 135	2B5V90								
136 - 141	2B5V94								
142 - 143	3B5V60								
144 - 147	3B5V62	B	3B5V86	B	5VX	3			
148 - 152	3B5V64								
153 - 156	2B5V86								
157 - 158	2B5V110								
159 - 166	2Q5V97	Q1	2B5V124	B	5VX	2			
167 - 171	2Q5V103								
172 - 181	2Q5V109								
182 - 187	2B5V110								
188 - 192	2Q5V103	Q1	2B5V110	B	5VX	2			
189 - 193	2Q5V109								
194 - 200	2B5V110								
201 - 207	2B5V110								

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 207SMTP15

207SMTP15 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
11 - 13	2VP42	-	2TB380	Q1	AX	2	
14 - 16							
17 - 19	2B5V278		B	BX			
20 - 23					2VP60		
24 - 25					2VP65		
26 - 28					2VP71		
29 - 33					2VP62		
34 - 35	2VP65						
36 - 39	2VP71						
40 - 44	2VP65						
45 - 48	2VP71						
49 - 51	2VP75						
52 - 57	2VP71						
58 - 61	2VP65						
62 - 69	2VP71						
70 - 74	2VP65						
75 - 83	2VP71						
84 - 91	2V58B70		2Q5V118	Q1	5VX		
92 - 99			2B5V90				B
100 - 105			2Q5V85				Q1
106 - 110			2Q5V80				
111 - 116			2B5V74	B			
117 - 119	2V68B80		2B5V80	Q1			
120 - 126			2Q5V80				
			2B5V74				
127 - 130		2B5V70	B				

207SMTP15 Fixed Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Fixed Pitch	Bushing	Fixed Pitch	Bushing				
7	3BK27	-	3TB380	Q1	AX	3		
8	3BK30							
9	3BK32							
10	3BK36							
11	3TB38	P1	2TB300			2		
12	3BK45H	H						
13	2BK36	-						
14	2TB38	P1						
15	2TB40							
16	2B5V42							
17	3BK32		3B5V200	B		3		
18	3BK34							
19	3BK36							
20	3BK40							
21	3TB38	P1	3BK190H	H	BX	2		
22								
23 - 24								
25 - 26							3BK47H	
27 - 28	3BK50H	H	3BK190H				2BK190H	BX
29	3BK52H							
30 - 31	3BK55H							
32 - 33	2BK55							
34 - 35	2BK57	-	2BK190H	2BK190H	BX			
36 - 37	2BK60							
38 - 40	2B5V58					B		
41 - 42	2BK52					-		
43 - 45	2B5V50	B	2B5V136	B	5VX	2		
46 - 47	2B5V52							
48 - 50	2B5V56							
51 - 53	2B5V54							
54 - 55	2B5V56							
56 - 57	2B5V58							
58 - 60	2B5V82							
61 - 63	2B5V64							
64 - 67	2B5V68							
68 - 71	2B5V64							
72 - 75	2B5V68							
76 - 78	2B5V60							
79 - 83	2B5V64							
84 - 88	2B5V68							
89 - 91	2B5V70							
92 - 96	2B5V74							
97 - 99	2B5V70							
100 - 105	2B5V74							
106 - 111	2B5V86							
112 - 116	2B5V90							
117 - 122	2B5V94							
123 - 126	2B5V90							
127 - 130	2B5V94							

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 207SMTP25

207SMTP25 Variable Pitch										
Output rpm	Driver		Driven		Belts	Belt Qty.				
	Variable Pitch	Bushing	Fixed Pitch	Bushing						
6 - 7	2VP36	-	2B5V278	B	AX	2				
8 - 9	2VP42									
10 - 11	2VP50									
12 - 13	2VP56									
14 - 16	2VP42		2B5V160	B						
17 - 20	2VP50									
21 - 23	2VP60									
24 - 25	2VP65									
26 - 28	2VP71		2AK134H	H						
29 - 31	2VP65									
32 - 34	2VP71		2B5V110	B	BX					
35 - 38	2VP65									
39 - 40	2VP71									
41 - 42	2VP60		2B5V90							
43 - 47	2VP65									
48 - 51	2VP71		2B5V74		5VX					
52 - 57	2VP65									
58 - 62	2VP71		2B5V62							
63 - 66	2VP75									
67 - 68	2VP65		2B5V52							
69 - 74	2VP71									
75 - 80	2VP65									

207SMTP25 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
5	3BK30	-	3TB380	Q1	AX	3
6	3BK36		2B5V250	B		2
7	2BK28					
8	2BK32					
9	3BK36	P1				
10	2BK38					
11	2TB40					
12	2AK30					
13	2AK34	-	2AK184H	H		
14	2AK39					
15	2AK41					
16	2AK44					
17	2AK46	H	2B5V136	B		
18	2BK34					
19	2BK36H					
20	2BK40					
21	2TB38	P1	2B5V136	B		
22	2BK45					
23	2BK47					
24	2BK50					
25	2BK47	-	2B5V124	B		
26 - 27	2BK50					
28	2BK52					
29	2BK55					
30 - 31	2B5V52	B	2BK110	-		
32 - 33	2BK62					
34 - 35	2BK55					
36 - 37	2B5V52					
38 - 40	2BK62	-	2B5V86	B		
41 - 42	2BK55					
43 - 44	2B5V52					
45 - 46	2B5V54					
47 - 48	2B5V62	B	2B5V80	B		
49 - 51	2B5V66					
52 - 53	2B5V68					
54 - 57	2B5V62					
58 - 60	2B5V66		2B5V90	B		
61 - 62	2B5V68					
63 - 65	2B5V80					
66 - 69	2B5V66					
70 - 74	3B5V60		3BK65H	H		
75 - 78	3B5V64					
79 - 80	3B5V66					

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 207SMTP35

207SMTP35 Variable Pitch									
Output rpm	Driver		Driven		Belts	Belt Qty.			
	Variable Pitch	Bushing	Fixed Pitch	Bushing					
5	2VP36	-	2B5V78	B	AX	2			
6	2VP42								
7 - 8	2VP50								
9	2VP56								
10 - 11	2VP42		2B5V160						
12 - 14	2VP50								
15	2VP56								
16	2VP42		2AK114	-					
17 - 20	2VP50								
21 - 23	2VP60		2B5V110						
24 - 27	2VP65								
28 - 30	2VP71		2B5V80	B	BX				
31 - 34	2VP65								
35 - 36	2VP65								
37 - 40	2VP71		2B5V60						
41 - 44	2VP60								
45 - 47	2VP65		2BK67H	H					
48 - 50	2VP71								

207SMTP35 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
5	2AK25	-	2B5V250	B	AX	2	
6	2BK34						
7	2AK22						
8	2BK30						
9	2BK32						
10	2BK36						
11	2BK40						
12	2AK32						
13	2AK34						
14	2AK39						
15	2AK41						
16	2AK44						
17	2AK46						
18	2AK49						
19	2AK51						
20	2AK46						
21	2AK49						
22	2AK51						
23	2AK54						
24	2AK56						
25 - 26	2AK59						
27	2AK64						
28	2B5V48		B	2B5V86	B		BX
29 - 30	2BK55						
31	2BK57						
32 - 33	2BK60						
34	2BK62						
35	2B5V48	B					
36 - 37	2BK55						
38 - 39	2BK57						
40	2BK60						
41 - 44	2BK55	-	2B5V68	H			
45 - 46	2B5V66						
47	2B5V68						
48 - 50	2B5V64	B	2B5V66	B			

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 215SMTP05

215SMTP05 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
90 - 98	2V58B70	-	2B5V250	B	5VX	2
99 - 111	2V58B80		2B5V200			
112 - 117	2V58B70		2B5V184			
118 - 130						
131 - 139	2MVP105C127Q	Q2	2C300R	R1		
140 - 142	2VMP95C117Q		2C270R			
143 - 154	2MVP104C127Q		2TC240	Q1		
155 - 178						
179 - 194	2MVP95C117Q		2TC200	R1		
195 - 212	2MVP105C127Q		2C180R			
213 - 230				R1		
231 - 240	3MVP85C107Q		3MVC140R			
241 - 262	3MVP90C112Q			Q2		
263 - 281	3MVP95C117Q		3MVC110Q			
282 - 313	3MVP85C107Q					
314 - 324	3MVP90C112Q					
325 - 337						
338 - 375	3MVP115C137Q			3MVC120Q		
376 - 400				3MVC110Q		

215SMTP05 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
90 - 96	4B5V50	B	4B5V184	B	5VX	4	
97 - 99	4B5V52						
100 - 103	4B5V54						
104 - 107	4B5V56						
108 - 111	3B5V58		3B5V184			3	
112 - 118	3B5V62						
119 - 122	3B5V64						
123 - 130	3B5V68						
131 - 134	3B5V70						
135 - 141	3B5V74						
142 - 144	3R5V80	R1	4B5V124	4			
145 - 152	3B5V80	B					
153 - 162	4Q5V59	Q1					
163 - 170	4B5V60	B					
171 - 181	4B5V64						
182 - 192	4B5V68						
193 - 198	4V5V70						
199 - 209	4B5V74						
210 - 222	3B5V86					3B5V136	3
223 - 232	3B5V90						
233 - 241	3B5V94						
242 - 248	3R5V97	R1					
249 - 261	3R5V103						
262 - 276	3R5V109						
277 - 283	3B5V110		B				
284 - 291	3R5V118	R1	3B5V110				
292 - 305	3R5V97						
306 - 320	3R5V103						
321 - 328	3R5V109						
329 - 337	3B5V110	B	3B5V124				
338 - 349	3B5V124						
350 - 365	3R5V132	R1					
366 - 382	3B5V136	B					
383 - 400	3B5V124		3R5V109				

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 215SMTP09

215SMTP09 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
20 - 24	3MVP35B49	-	3MVB380R	R1	AX	3
25 - 29	3MVP40B54		3MVB300R		BX	
30 - 35	3MVP40B54					
36 - 38	3MVP45B99					
39 - 41	3MVP50B64					
42 - 46	3MVP55B69					
47 - 51	3MVP55B69		3MVB250R			
52 - 57	3MVP60B74	Q2	2C300R	Q1	CX	2
58 - 62	2MVP75C97Q					
63 - 68	2MVP85C107Q					
69 - 74	2MVP95C117Q		2TC240	Q1		2
75 - 81	2MVP105C127Q					
82 - 86	2MVP85C107Q		3MVC180R	R1		3
87 - 92	2MVP95C117Q					
93 - 103	3MVP75C97Q					
104 - 113	3MVP85C107Q		3MVC130Q	Q2		
114 - 123	3MVP95C117Q					
124 - 142	3MVP75C97Q					
143 - 161	3MVP90C112Q					
162 - 172	3MVP95C117Q					
173 - 189	3MVP105C127Q					
190 - 200	3MVP115C137Q					

215SMTP09 Fixed Pitch									
Output rpm	Driver		Driven		Belts	Belt Qty.			
	Fixed Pitch	Bushing	Fixed Pitch	Bushing					
20	3TB36	P2	3TB380	Q1	BX	3			
21	3TB38	P1							
22	3TB40								
23	3BK47H	H							
24	3BK50H								
25	3BK52H								
26 - 27	3B5V48								
28	3B5V50	B							
29	3B5V52								
30	3B5V54								
31	3B5V56								
32	3B5V42								
33 - 34	3B5V44								
35	3B5V48								
36 - 37	3B5V50								
38	3B5V52								
39 - 40	3B5V46								
41 - 42	3B5V48								
43	3B5V50								
44 - 45	3B5V52								
46 - 47	3B5V54								
48 - 49	3B5V56								
50 - 52	3B5V60								
53 - 54	3B5V62								
55 - 56	3B5V64								
57 - 58	4B5V52								
59 - 60	4B5V54								
61 - 62	4B5V56								
63 - 64	4B5V58								
65 - 68	4B5V60								
69 - 73	4B5V64								
74 - 75	4B5V66								
76 - 78	3B5V70								
79 - 82	3B5V74								
83 - 84	3R5V80	R1	3B5V184	B	5VX	3			
85 - 89	3B5V80	B							
90 - 94	4Q5V59	Q1	4B5V124	B		5VX	4		
95 - 99	4B5V60	B							
100 - 104	4B5V64		R1	3B5V154			B	5VX	3
105 - 110	3R5V85	R1							
111 - 114	3B5V86		B						
115 - 119	3B5V90	R1		3B5V136			B		5VX
120 - 124	3B5V94		R1						
125 - 132	3R5V90	R1							
133 - 135	3R5V92		R1						
136 - 144	3R5V97	B							
145 - 151	3R5V103		B						
152 - 160	3R5V109	R1							
161 - 165	3B5V110		B						
166 - 176	3R5V109	R1							
177 - 181	3B5V110		B						
182 - 186	3B5V124	R1							
187 - 192	3R5V132		B						
193 - 200	3B5V136	B							

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

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- Average Service at Reducer Rated Load
- 2 Belt Minimum

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Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 215SMTP15

215SMTP15 Variable Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Variable Pitch	Bushing	Fixed Pitch	Bushing				
11 - 14	2VP42	-	2TB380	Q1	AX	2		
15 - 19	2MVP35B49		3TB300		2B5V250		BX	
20 - 23	2VP60		P2	B				5VX
24 - 25								
26 - 28	2VP65							
29 - 32	2VP71							
33 - 34	2MVP60B74P	-			2B5V200		5VX	
35 - 39	2VP71							
40 - 44	2VP75							
45 - 48	2V68B80							
49 - 54	2V58B70	2R5V160	R1	CX				
55 - 61	2MVP75C97Q	Q2			2C180R			
62 - 67	2MVP85C107Q							
68 - 75	2MVP95C117Q	-	2Q5V97	Q1	5VX			
76 - 86	2V58B70							
87 - 94	2MVP95C117Q							
95 - 102	2MVP105C127Q		Q2	2C140R	R1		CX	
103 - 118	2MVP85C107Q	2TC106		Q1				
119 - 130	3MVP80C102	3MVC86Q		Q2	3			

215SMTP15 Fixed Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Fixed Pitch	Bushing	Fixed Pitch	Bushing				
9	3BK32	-	3TB380	Q1	AX	3		
10	3BK36							
11	3TB38	P1						
12	3BK45H	H						
13	3BK50H							
14	3BK52H	P2	3B5V278	B			BX	2
15	3TB36							
16	3TB40	P1						
17	3B5V42	H						
18	3BK50H							
19	3BK52H	-			2B5V278	5VX		
20	2BK50							
21	2BK52							
22	2BK55							
23	2BK57	P2	4B5V154		2			
24 - 25	4TB36							
26	4TB38						P1	
27 - 28	4TB40							
29 - 30	4B5V44	B	3B5V154	5VX			2	
31 - 32	4B5V46							
33 - 34	3B5V42							
35 - 37	3B5V46		3B5V136					
38 - 40	3B5V50							
41 - 43	3B5V48							
44 - 47	3B5V52		2B5V154					
48 - 51	3B5V56							
52 - 54	2B5V68							
55 - 57	2B5V74							
58 - 60	2Q5V80	Q1	2B5V136	2				
61 - 63	2B5V80	B						
64 - 66	2Q5V85	Q1						
67 - 68	2B5V86	B	2B5V124		2			
69 - 72	2B5V80							
73 - 77	2B5V86							
78 - 81	2B5V90							
82 - 84	2B5V94	Q1	2B5V110			2		
85 - 86	2Q5V90							
87 - 89	2Q5V92							
90 - 94	2Q5V97							
95 - 99	2Q5V103	Q1	2B5V124	2				
100 - 105	2Q5V109							
106 - 108	2B5V110							
109 - 112	2Q5V103							
113 - 114	2Q5V109	Q1	2B5V110		2			
115 - 118	2B5V110							
119 - 122	2B5V124							
123 - 125	2Q5V132							
126 - 130	2B5V136	B						

Notes: Pre-selected belt drives are based on the following guidelines:

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- Average Service at Reducer Rated Load
- 2 Belt Minimum

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Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 215SMTP25

215SMTP25 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
7 - 8	2VP42	-	2TB300	Q1	AX	2
9 - 10	2VP50		2TA245			
11 - 12						
13 - 14	2VP60					
15 - 16	2VP65			2B5V184	B	
17 - 18	2VP71					
19 - 21	2VP65					
22 - 23	2MVP50B64					
24 - 25	2VP75		2R5V140	R1		
26 - 28						
29 - 32	2VP65					
33 - 35	2VP75					
36 - 38	2VP65		2B5V110	B		
39 - 43	2VP71					
44 - 50	2V58B70					
51 - 58	2V68B80					
59 - 69	2V58B70	2Q5V103	Q1	5VX		
70 - 80	2V68B70	2B5V74	B			
		2Q5V75	Q1			

215SMTP25 Fixed Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Fixed Pitch	Bushing	Fixed Pitch	Bushing				
5	2BK30	-	2TB380	Q1	AX	2		
6	2BK36							
7	2TB40						P1	
8	2TB50						-	
9	2TB38	P1	2B5V278	B		5VX	2	
10	2TB40							
11	3BK36	-	3B5V200					
12	3BK40							
13	3TB38							P1
14	3B5V42							
15	3TB36	P2	3B5V160					
16 - 17	3BK45H	H						
18	3B5V42	P1						
19	3BK50H	H						
20	3BK52H							
21 - 22	3TB36	P2	3B5V124		BX			3
23	3TB38	P1						
24 - 25	3BK47H	H						
26	3B5V44	P1						
27 - 28	3B5V46	B	2B5V136	5VX		2		
29	3B5V48							
30 - 31	2B5V58							
32 - 33	2B5V62							
34 - 35	2B5V66		B				2B5V110	
36	2B5V66							
37 - 38	2B5V58							
39 - 41	2B5V62							
42 - 43	2B5V66				2B5V94			
44 - 46	2B5V70							
47 - 49	2B5V74							
50 - 52	2B5V80							
53 - 54	2B5V70	Q1		2B5V90				
55 - 56	2B5V74							
57 - 58	2Q5V80							
59 - 62	2B5V80							
63 - 65	2B5V86	B	2B5V80	5VX	2			
66 - 69								
70 - 72								
73 - 75								
76 - 77	2B5V86	Q1	2B5V80					
78 - 80	2Q5V92							

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

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- 2 Belt Minimum

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Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 215SMTP35

215SMTP35 Variable Pitch											
Output rpm	Driver		Driven		Belts	Belt Qty.					
	Variable Pitch	Bushing	Fixed Pitch	Bushing							
5 - 6	2VP42	-	2TB300	Q1	AX	2					
7	2VP50										
8	2VP56										
9	2VP42		2B5V200	B							
10 - 11	2VP50										
12	2VP56										
13 - 14	2VP65										
15 - 17	2MVP55B69										
18 - 20	2VP60		2B5V136								
21 - 23	2MVP50B64										
24 - 25	2VP65		2B5V110		BX						
26 - 28											
29 - 32	2VP75		2B5V86		5VX						
33 - 36	2VP65										
37 - 41	2VP75										
42 - 46	2VP65										
47 - 50	2V58B70		2B5V68								

215SMTP35 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
5	2BK32	-	2B5V278	B	AX	2	
6	2BK36		2B5V200				
7	2TB40						
8	2B5V42						
9	2TB38						
10							
11	3BK34	-				3B5V136	3
12	3BK36						
13	3TB36	P2					
14	3BK45H	H					
15	3BL47H						
16	3BK50H						
17	3BK52H						
18	3BK55H						
19 - 20	2BK52	-	2B5V124		BX	2	
21	2BK55						
22	2BK57						
23 - 24	2BK62						
25	2BK65						
26 - 27	2B5V64	B	2B5V86				
28	2B5V66						
29	2B5V70						
30 - 31	2B5V50						
32 - 33	2B5V54						
34 - 36	2B5V86		2B5V124				
37	2B5V90						
38 - 39	2B5V94						
40 - 42	2B5V60						
43 - 44	2B5V80						
45 - 46	2B5V86	2B5V94					
47 - 48	2B5V90						
49 - 50	2B5V94						

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 307SMTP05

307SMTP05 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
90 - 99	3MVP85C107Q	Q2	3MVC360R	R2	CX	3
100 - 108	3MVP95C117Q		3MVC300R			
109 - 122	3MVP85C107Q					
123 - 134	3MVP815V95Q					
135 - 148	3MVP915V105Q		3MV5V240S	S1		
149 - 161	3MVP1015V115Q					
162 - 177	3MVP1115V125Q					
178 - 194	3MVP1015V115Q		3MV5V200R			
195 - 213	3MVP1015V125Q		3MV5V180R			
214 - 237	3MVP1115V125Q		3MV5V150R			
238 - 262	3MVP1015V115Q	-				4
263 - 280	3MVP1015V125Q					
281 - 296	4MVP1015V115		4MV5V132R			
297 - 332			4MV5V118R			
333 - 362	4MVP1115V125		4MV5B109R			
363 - 394						
395 - 400	5MVP1015V115		5MV5V97R	R2		

307SMTP05 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
90 - 91	4B5V60	B			4B5V234	4
92 - 97	4B5V64					
98 - 100	4B5V66					
101 - 103	4B5V68					
104 - 106	4B5V70					
107 - 112	4B5V74					
113 - 117	4B5V66					
118 - 121	4B5V68					
122 - 125	4B5V70					
126 - 130	4B5V74					
131 - 138	4B5V80	R1			4B5V200	4
139 - 142	4B5V80	B				
143 - 147	4R5V85	R1				
148 - 152	4B5V86	B				
153 - 158	4B5V90					
159 - 165	4B5V86					
166 - 172	4B5V90					
173 - 180	4B5V94					
181 - 183	4R5V97					
184 - 193	4R5V103					
194 - 196	4R5V109					
197 - 206	4B5V90	B			4B5V154	4
207 - 215	4B5V94					
216 - 219	4R5V97	R1				
220 - 228	4R5V103					
229 - 233	4B5V90	B				
234 - 243	4B5V94					
244 - 248	4R5V97	R1				
249 - 255	4B5V90	B				
256 - 267	4B5V94					
268 - 273	4R5V97					
274 - 279	4R5V103					
280 - 297	4R5V132					
298 - 305	4R5V140					
306 - 318	4R5V125					
319 - 336	4R5V132					
337 - 353	4R5V140					
354 - 368	4R5V132					
369 - 388	4R5V140	R1				
389 - 394	4R5V125					
395 - 400	5B5V124					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 307SMTP09

307SMTP09 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
23 - 27	5MVP40B54	-	5MVB380R	R2	AX	5
28 - 30	5MVP45B59		5MVB300R		BX	
31 - 35	5MVP40B54					
36 - 41	5MVP50B64					
42 - 45	5MVP55B69					
46 - 48	5MVP60B74					
49 - 55	3MVP80C102Q	Q2	3MVC360R	R2	CX	3
56 - 59	3MVP90C112Q					
60 - 63	3MVP95C117Q					
64 - 69	3MVP85C107Q					
70 - 75	3MVP95C117Q					
76 - 81	3MVP105C127Q		3MV5V200R	R1	5VX	4
82 - 94	3MVP815V95Q					
95 - 104	3MVP915V105Q					
105 - 114	3MVP1015V115Q					
115 - 130	3MVP915V105Q		3MV5V160R			
131 - 146			3MV5V140R			
147 - 155			3MV5V132R			
156 - 170			4MV5V132R			
171 - 182	4MVP1015V115	-	4MV5V125R	R1	5VX	4
183 - 200	4MVP1115V125					

307SMTP09 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
23 - 24	4B5V42	P1	4S5V375	S1	5VX	4	
25	4B5V46	B					
26	4B5V48						
27 - 28	4B5V50	Q1	5TB380	Q2	BX	5	
29	5B5V52						
30	5TB54						
31	5TB56						
32	5TB58						
33	5TB60						
34	5TB62						
35	5TB64	B	4B5V278	B	5VX	4	
36 - 37	4B5V50						
38	4B5V52						
39 - 40	4B5V54						
41	4B5V56						
42 - 43	4B5V58						
44 - 46	4B5V62						
47 - 49	4B5V66						
50 - 51	4B5V58						
52 - 54	4B5V62						
55 - 56	4B5V64						
57	4B5V66						
58 - 60	4B5V68						
61 - 62	4B5V70						
63 - 65	4B5V74						
66 - 68	3R5V85	R1	3B5V250			3	
69 - 71	3B5V86	B					
72 - 74	3B5V90						
75 - 77	3B5V94						
78 - 79	3R5V97	R1	4B5V184				4
80 - 83	3R5V103						
84 - 87	4R5V80						
88 - 93	4R5V85						
94 - 96	4B5V86						
97 - 100	4B5V90						
101 - 105	4B5V94						
106 - 107	4R5V97						
108 - 113	4R5V103						
114 - 115	4R5V109						
116 - 123	4B5V110	B					
124 - 129	3R5V118	R1				3B5V184	3
130 - 137	3R5V125						
138 - 140	3R5V132						
141 - 149	4B5V90	B				4B5V124	4
150 - 155	4B5V94						
156 - 164	4R5V125	R1	4B5V154				
165 - 173	4R5V132						
174 - 178	4R5V140						
179 - 185	4R5V125						
186 - 196	4R5V132						
197 - 200	4R5V140						

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 307SMTP15

307SMTP15 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
15 - 16	4MVP40B54	-	4MVB380R		AX	4	
17 - 19							
20							
21 - 22			4MVB300R		BX		
23 - 25	4MVP50B64	Q2	4MVB300R	R1	CX	2	
26 - 27	4MVP60B74						
28 - 30	2MVP75C971						
31 - 35	2MVP85C107Q						
36 - 42	2MVP75C97Q		2C270R			3	
43 - 46	2MVP85C107Q						
47 - 49	2MVP95C117Q						
50 - 53	2MVP105C127Q						
54 - 61	3MVP75C97Q		3MVC180R		5VX		
62 - 67	3MVP85C107Q						
68 - 73	3MVP95C117Q						
74 - 82	3MVP95C117Q		3MVC160R				
83 - 92	3MVP815V95Q		3MV5V118R				
93 - 104	3MVP915V105Q		3MV5V103R				
105 - 119	3MVP915V105Q						
120 - 130	3MVP1015V115Q						

307SMTP15 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
12	3TB36	P2	3TB380	Q1	BX	3
13	3BK45H	H				
14	3B5V42	P1				
15	3B5V46	B				
16	3B5V48					
17	4B5V42	P1	4TB300			
18	4B5V44					
19	4B5V46	B				3TB300
20 - 21	4B5V50					
22	3B5V54		3B5V250			
23	3B5V56					
24	3B5V58					
25 - 26	3B5V54		Q2	4B5V184	5VX	4
27	3B5V56					
28 - 29	4Q5V46	B				
30	4B5V46					
31	4B5V48					
32 - 33	4B5V50					
34 - 35	4B5V54					
36 - 37	4B5V56		Q1			3B5V184
38 - 39	3B5V60					
40 - 42	3B5V64					
43	3Q5V71					
44 - 46	3B5V70	B				
47 - 48	3B5V74					
49	3R5V80	R1	B	5VX	4	
50 - 52	3B5V80	B				
53 - 55	3B5V70					
56 - 58	3B5V74					
59 - 62	4B5V70					
63 - 65	4B5V74					
66 - 67	3B5V86				3B5V154	
68 - 70	3B5V90					
71 - 73	3B5V94					
74 - 78	4B5V80	4B5V124				
79 - 83	4B5V86					
84 - 87	4B5V90					
88 - 91	4B5V94		R1			
92 - 93	3R5V97					
94 - 98	3R5V103					
99 - 104	3R5V109					
105 - 109	3B5V124					
110 - 113	3R5V132					
114 - 119	3B5V124	R1	3B5V124	3		
120 - 126	3R5V132					
127 - 130	3B5V136					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 307SMTP25

307SMTP25 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
7 - 9	2MVP35B49	-	2TB380	Q1	BX	2	
10 - 12			2B5V278	B			
13 - 14							2VP60
15 - 17			2VP71				
18 - 20	2VP75	P2	2B5V250				
21 - 23	2MVP70B84P						
24 - 27	2MVP80B94Q	Q2	2TC200	Q1	CX		
28 - 33	2MVP75C97Q						
34 - 37	2MVP85C107Q						
38 - 41	2MVP95C117Q		2TC160	R1			
42 - 43	2MVP105C127Q						
44 - 52	2MVP95C117Q	2C140R	Q2				
53 - 56	2MVP95C117Q						
57 - 60	2MVP105C127Q	3MVC96Q	Q2				
61 - 73	3MVP80C102Q						
74 - 80	3MVP95C117Q						

307SMTP25 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
6	3BK36	-	3TB380	Q1	AX	3
7	3BK45H	H				
8	3BK50H					
9	3TB36	P2	3B5V278	B	5VX	3
10	3BK47H	H				
11	3BK50H					
12	2BK50	-	2B5V278			
13	2BK55					
14	2BK60					
15	2B5V56	B	3B5V184			
16	2B5V60					
17	3B5V42	P1	3B5V184			
18	3B5V44					
19	3B5V46	B	3B5V154			
20	3B5V50					
21 - 22	3B5V46					
23	3B5V48					
24	3B5V52					
25	3B5V54					
26	6B5V66					
27 - 28	3B5V60					
29 - 30	3B5V56					
31 - 32	3B5V60					
33 - 34	3B5V64	3B5V136				
35 - 36	3B5V68					
37 - 38	3B5V58	3B5V110				
39 - 41	3B5V62					
42 - 43	3B5V66					
44 - 46	3B5V70					
47 - 49	3B5V74					
50 - 51	2Q5V97	Q1	2B5V136			
52 - 54	2Q5V103					
55	2Q5V109					
56 - 59	2B5V110	B	3B5V94			
60	3B5V80					
61 - 64	3R5V85	R1	3B5V94			
65	3R5V90					
66 - 69	3B5V90	B	3B5V86			
70 - 72	3B5V94					
73 - 76	3B5V90					
77 - 78	3B5V94	R1	3B5V94			
79 - 80	3R5V109					

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 307SMTP35

307SMTP35 Variable Pitch											
Output rpm	Driver		Driven		Belts	Belt Qty.					
	Variable Pitch	Bushing	Fixed Pitch	Bushing							
5 - 6	2VP42	-	2TB300	Q1	AX	2					
7 - 8	2MVP35B49		2B5V234	B	BX						
9 - 15	2BP65										
16 - 18	2VP75										
19 - 22	2VP71		2B5V184		5VX						
23 - 24			2B5V154								
25 - 27	2V58B70		2B5V136								
28 - 30	2V58B80		2Q5V109	Q1							
31 - 34	2V58B70			B							
35 - 38	2V68B80		2B5V86								
39 - 42	2V58B70										
43 - 46	2V68B80										
47 - 50	2MVP85C107Q	Q2	2TC100	Q1	CX						

307SMTP35 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
5	3BK34	-	3TB300	Q1	AX	3	
6	3TB30	P1					
7	3B5V42						
8	2B5V48	B	2B5V278	B	BX	2	
9	2B5V52						
10	2B5V60	-	2B5V234				
11	2BK55						
12	2BK57						
13	2BK62						
14	2B5V44	P1	2B5V160		5VX		
15	2B5V48	B					
16	2B5V50						
17	2B5V52						
18	2B5V56						
19	2B5V60						
20	2B5V62						
21	2B5V68						
22 - 23	2B5V60		2B5V136				
24	2B5V64						
25 - 26	2B5V68						
27 - 28	2B5V74						
29 - 30	2B5V80	2B5V110					
31 - 32	2B5V86						
33 - 34	2B5V90						
35	2B5V94						
36 - 38	2B5V80	Q1			3B5V86	3	
39 - 40	2B5V86						
41	2B5V90						
42 - 44	2B5V94						
45 - 46	2Q5V103						
47 - 48	3B5V80						
49 - 50	3B5V86						

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 315SMTP05

315SMTP05 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
90 - 98	3MVP75C97Q	Q2	3MVC260R	R2	CX	3
99 - 112	3MVP815V95Q		3MV5V300S	S1	5VX	
113 - 123	3MVP915V105Q					
124 - 137	3MVP1015V115Q					
138 - 155	3MVP915V105Q		3MV5V240S			
156 - 171	3MVP1015V115Q					
172 - 186	3MVP1115V125Q	-	4MV5V200R	R1		5
187 - 204	4MVP1015V115		4MV5V180R		S1	
205 - 227	4MVP1115V125		5MV5V140S	R1		
228 - 246	4MVP1115V125		5MV5V125S			
247 - 266	5MVP915V105		5MV5V118S			
267 - 295	5MVP1015V115		5MV5V198R			
296 - 327	5MVP1115V125					
328 - 356						
357 - 379						
380 - 400						

315SMTP05 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
90 - 94	3B5V94	B	3S5V375	S1	5VX	3
95 - 100	3R5V103	R1				
101 - 106	3R5V109					
107 - 110	4B5V74	B	4B5V250	B		4
111 - 112	4R5V80	R1				
113 - 119	4B5V80	B				
120 - 126	4B5V86					
127 - 134	4B5V90					
135 - 139	4B5V94					
140 - 142	4R5V97	R1				
143 - 148	4R5V103					
149 - 155	3R5V118	B	3B5V278	3		
156 - 165	3B5V124					
166 - 168	3R5V132	R1	4B5V184	4		
169 - 177	4R5V90					
178 - 183	4R5V92					
184 - 186	4B5V94	B				
187 - 189	5B5V94	R1	5B5V184	R1		5
190 - 193	5R5V97					
194 - 203	5R5V103					
204 - 208	5R5V109					
209 - 221	5B5V110					
221 - 233	4R5V118					
234 - 247	4R5V125		4B5V184	B		4
248 - 256	4R5V132					
257 - 270	5R5V118		5B5V160	R1		5
271 - 286	5B5V124					
287 - 297	5R5V132					
298 - 302	5B5V136					
303 - 315	5B5R116		5B5V136			
316 - 321	5R5V125					
322 - 334	5B5V124					
335 - 345	6R5V118		6B5V124			
346 - 348	6S5V125					
349 - 369	6B5V124	R1				
370 - 381	6S5V132	S1				
382 - 400	6B5V136	R1				

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 315SMTP09

315SMTP09 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
24 - 29	6MVP40B54	-	6MVB380R	R2	BX	6
30 - 34	6MVP40B54		5MVB380R			
35 - 37	5MVP55B69		5MVB300R			
38 - 54	5MVP55B69		5MVB300R			
46 - 52	3MVP75C97Q	Q2	3MVC360R	R2	CX	3
53 - 59	3MVP85C107Q					
60 - 70	3MVP105C127Q					
71 - 76	3MVP115C137Q					
77 - 87	3MVP915V105Q	-	3MV5V240S	S1	5VX	4
88 - 95	4MVP1015V115		4MV5V240S			
96 - 108	4MVP1015V115		4MV5V212S			
109 - 121	4MVP1115V125		4MV5V200R			
122 - 130	5MVP915V105	-	5MV5V180S	R1	5VX	5
131 - 143	5MVP1015V115		5MV5V160S			
144 - 159	5MVP1015V115		5MV5V140S			
160 - 177	5MVP1115V125		5MV5V125S			
178 - 200	5MVP1115V125		5MV5V125S			

315SMTP09 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
25	4C60Q	Q2	4C500R	R1	CX	4
26	4B5V48	B	4S5V375	S1	5VX	
27	4B5V50					
28	4B5V52					
29	4B5V54					
30	4B5V56					
31	4B5V58					
32 - 33	4B5V60					
34	4B5V62					
35	4B5V64					
36	4B5V66					
37 - 38	4B5V70					
39 - 41	4B5V74					
42 - 44	4B5V80					
45 - 46	4B5V86					
47 - 48	3B5V90					
49 - 51	3B5V94	R1	3S5V375	B	5VX	3
52 - 55	3R5V103					
56 - 59	3R5V109					
60 - 63	3R5V118					
64 - 67	3R5V125	B	4B5V250	B	5VX	4
68 - 71	3R5V132					
72 - 73	4B5V90					
74 - 78	4B5V94					
79 - 82	4R5V103	R1	5B5V184	R1	5VX	5
83 - 87	4R5V109					
88 - 93	4R5V125					
94 - 100	4R5V125					
101 - 106	4R5V132	R1	5B5V184	R1	5VX	5
107 - 112	4R5V132					
113 - 115	5R5V109					
116 - 121	5B5V110					
122 - 129	5R5V118	R1	5B5V184	R1	5VX	5
130 - 137	5B5V124					
138 - 142	5R5V132					
143 - 150	5B5V136					
151 - 158	5B5V124	R1	5B5V184	R1	5VX	5
159 - 163	6S5V132					
164 - 173	6B5V136					
174 - 185	6B5V124					
186 - 191	6S5V132	S1	6B5V160	R1	5VX	6
192 - 200	6B5V136					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 315SMTP15

315SMTP15 Variable Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Variable Pitch	Bushing	Fixed Pitch	Bushing			
17 - 22	5MVP40B54	-	5MVB300R	R2	BX	5	
23 - 27	5MVP55B69						
28 - 31	5MVP50B64						
32 - 35	5MVP60B74		5MVB250R				
36 - 41	5MVP70B74	Q2		R1	CX	3	
42 - 48	3MVP75C97Q		3MVC240R				
49 - 55	3MVP90C112Q		3MVC200R				
56 - 63	3MVP85C107Q		3M5V180R				
64 - 69	3MVP915V105Q		3MV5V160R		5VX		
70 - 76	3MVP1015V115Q		3MV5V132R				
77 - 86							
87 - 95	3MVP915V105Q						
96 - 104	4MVP1015V115	-	4MV5V132R	R2		4	
105 - 114	4MVP1115V125						
115 - 130	5MVP915V105		5MV5V97R			5	

315SMTP15 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
13	5B5V42	P2	5TB380	Q2	AX	5
14	5B5V46					
15	5TB50					
16	5TB52					
17	5TB54	Q1	4B5V278	B	5VX	4
18	4B5V42	P1				
19	4Q5V46	Q2				
20	4B5V46	B				
21	4B5V48		4B5V250			
22 - 23	4B5V46					
24 - 25	4B5V50		3B5V250			
26	4B5V52					
27 - 28	3B5V56					
29 - 30	3B5V60		3			
31 - 32	3B5V66					
33 - 35	3B5V70					
36 - 37	3B5V74		4B5V200	4		
38 - 39	4B5V64					
40	4B5V66					
41 - 42	4B5V68					
43	4B5V70					
44 - 46	4B5V74					
47 - 48	4B5V80					
49 - 50	4R5V85	R1				
51 - 53	4B5V86					
54 - 55	4B5V90	B				
56 - 58	4B5V94					
59	4R5V97	R1				
60 - 62	4R5V103					
63 - 65	4R5V109	B				
66 - 67	4B5V110					
68 - 69	4B5V90	R1				
70 - 73	4B5V94					
74 - 78	4R5V103	R1				
80 - 82	4R5V109					
83 - 85	4B5V110	B				
86 - 89	4R5V118					
90 - 95	4R5V125	R1	4B5V160			
96 - 100	4R5V132					
101 - 105	4R5V140					
106 - 112	4R5V125					
113 - 118	4R5V132		4B5V136			
119 - 124	4R5V140					
125 - 130	4R5V132		4B5V124			

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 315SMTP25

315SMTP25 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
10	3MVP35B49	-	3MVB300R	R1	BX	3
11 - 12	3MVP40B54					
13	3MVP45B59					
14 - 15	3MVP50B64					
16 - 17	3MVP55B69		4MVB200R		4	
18 - 20	4MVP45B59					
21 - 23	4MVP55B69					
24 - 26	4MVP60B74					
27 - 29	4MVP70B84	Q2	3MVC180R		CX	3
30 - 33	4MVP80B94Q					
34 - 39	3MVP75C97Q					
40 - 45	3MVP95C117Q					
46 - 49	3MVP105C127Q		3MV5V132R	5VX		
50 - 56	3MVP915V105Q		3MV5V118R			
57 - 63			3MV5V103R			
64 - 70	3MVP1015V115Q	-				
71 - 80						

315SMTP25 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
6	4TB34	P2	4TB380	Q1	AX	4
7	4TB38	P1				
8	4B5V44					
9	4B5V48	B				
10	3TB36	P2	3B5V278			3
11	3BK45H	H				
12	3B5V44	P1				
13	3B5V48	B				
14	3B5V52					
15	3B5V56					
16	3B5V58					
17	4B5V42	P1	4B5V184		BX	4
18	4B5V44					
19	4B5V48	B				
20	4B5V50					
21	4B5V52					
22 - 23	4B5V56					
24	4B5V60	R1	3B5V154			
25	4B5V62					
26	4B5V64					
27	4B5V66					
28	4B5V68	B	3B5V136		5VX	3
29 - 30	3B5V62					
31	3B5V66					
32 - 33	3B5V70					
34 - 35	3B5V74	R1	3B5V124			
36 - 37	3R5V80					
38 - 39	3R5V85					
40 - 42	3R5V90					
43 - 44	3B5V94	B				
45 - 46	3B5V86					
47 - 48	3B5V90					
49 - 51	3B5V94					
52 - 55	3R5V103	R1				
56 - 59	3B5V110	B				
60 - 63	3R5V118	R1				
64 - 67	3B5V124	B				
68 - 69	3R5V132	R1				
70 - 73	3B5V136	B				
74 - 77	3R5V132	R1				
78 - 80	3B5V136	B				

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 315SMTP35

315SMTP35 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
7 - 8	3MVP35B49	-	3MVB300R	R1	AX	3
9 - 10	2MVP35B49		2B5V250	B	BX	2
11 - 12	2MVP45B59					
13 - 14	2VP71					
15 - 16	2MVP70B84P	P2				
17 - 18	2MVP80B94Q	Q2				
19 - 20	2V58B70	-	2B5V184	Q1	5VX	
21 - 23	2V68B80					
24 - 27	2MVP85C107Q	Q2	2TC200	Q1	CX	3
28 - 30	2MVP95C117Q					
31 - 38	3MVP75C97Q		3MBV130Q	Q2		
39 - 43	3MVP90C112Q					
44 - 50	3MVP105C127Q					

315SMTP35 Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
5	3BK32	-	3TB300	Q1	AX	3
6	3TB36	P2				
7	3B5V42	P1				
8	3BK55H	H				
9	3B5V54	B	3B5V200	B	BX	
10	3TB36	P2				
11	3B5V44	P1				
12	3B5V48	B				
13	3B5V52					
14	3B5V56					
15	3B5V60					
16 - 17	3B5V66					
18	3B5V52					
19	3B5V56					
20	3B5V58					
21	3B5V62					
22 - 23	3B5V54					
24 - 25	3B5V58					
26	3B5V62					
27	3B5V64					
28	3B5V66					
29	3B5V68					
30 - 31	3B5V74					
32 - 33	3B5V86					
34 - 35	3B5V90					
36	3B5V94					
37	3R5V92					
38 - 39	3R5V103	R1				
40 - 41	3B5V86					
42 - 43	3B5V90					
44 - 45	3B5V94					
46 - 48	3R5V103					
49 - 50	3R5V109					
		B	3B5V124	5VX		
			3B5V154			
			3B5V124			
			2B5V136			
			3B5V110			

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 407SMTP05B

407SMTP05B Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
112 - 117	3MVP915V105Q	Q1	3MV5V300S	S1	5VX	3
118 - 137	4MVP1015V115	-	4MV5V300S			4
138 - 151	4MVP1115V125		4MV5V280S			
152 - 161	4MVP1015V115		4MB5V140S			5
162 - 185	5MVP915V105		5MV5V200S			
186 - 202	5MVP1015V115					
203 - 220	5MVP1115V125		5MV5V180S			
221 - 244			6MV5V150S			
245 - 270	6MVP1015V115		6MB5V132S			
271 - 302	6MVP1115V125		6MV5V140S			
303 - 315						

407SMTP05B Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
90 - 93	4R5V97	R1	4S5V375	S1	5VX	4	
94 - 98	4R5V103						
99 - 102	4R5V109						
103 - 107	4B5V110	B					
108 - 113	4R5V118	R1	6B5V250	R1		6	
114 - 117	4R5V125						
118 - 125	6B5V86						
126 - 130	6B5V90						
131 - 136	6B5V94		5B5V250			5	
137 - 139	6R5V97						
140 - 146	6R5V103						
147 - 155	5R5V109						
156 - 159	5B5V110		6B5V184			6	
160 - 168	5R5V118						
169 - 178	5R5V125						
179 - 188	5R5V132						
189 - 196	5B5V136		S1			6B5V200	6
197 - 199	5R5V140						
200 - 210	6R5V109						
211 - 222	6S5V125						
223 - 235	6S5V132	R1	6B5V154	8			
236 - 249	6S5V140						
250 - 255	6S5V132						
256 - 261	6S5V140						
262 - 267	6B5V136	S1	8S5V150	S1		8	
268 - 272	6R5V118						
273 - 288	6S5V125						
289 - 300	6S5V132						
301 - 317	6S5V136	R1	8S5V125				
318 - 327	8S5V140	S1	8S5V132				
328 - 340	8S5V132						
341 - 359							
360 - 381	8S5V140						
382 - 400							

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 407SMTP15B

407SMTP15B Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
31 - 33	3MVP75C97Q	Q2	3MVC360R	R2	CX	3
34 - 37	3MVP85C107Q					
38 - 40	3MVP95C117Q					
41 - 43	3MVP105C127Q					
44 - 48	3MVP815V95Q		3MV5V240S	S1	5VX	
49 - 55	3MVP915V105Q					
56 - 60	3MVP1015V115Q					
61 - 67	3MVP915V105Q		3MV5V200R	R1		
68 - 72	3MVP1015V115Q					
73 - 80	4MVP1115V125					
81 - 89		4MV5V200R				
90 - 99		4MV5V180R				
100 - 108	5MVP915V105	4MV5V160R	S1	5		
109 - 123		5MV5V125S				
124 - 130		5MV5V109R				
		5MV5V118S	S1			

407SMTP15B Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
15	4Q5V46	Q2	4S5V375	S1	5VX	4
16	4B5V46	B				
17	4B5V48					
18	4B5V52					
19	4B5V54					
20	4B5V58					
21	4B5V60					
22	4B5V62					
23	4B5V66					
24 - 25	4B5V70					
26	4B5V56					
27	4B5V58					
28	4B5V60					
29 - 30	4B5V64					
31	4B5V66					
32 - 33	4B5V70					
34 - 35	4B5V74					
36 - 37	4B5V70					
38 - 39	4B5V74					
40 - 41	4R5V80		R1			
42	4B5V80	B				
43	4R5V85	R1				
44 - 45	4B5V86	B				
46 - 47	4B5V90					
48	4B5V86					
49 - 51	4B5V90					
52 - 53	4B5V94					
54 - 55	4R5V103	R1				
56 - 58	4R5V90					
59 - 60	4R5V92					
61 - 62	4B5V94					
63	4R5V97					
64 - 66	4R5V103	R1				
67 - 68	4R5V109					
69 - 72	4B5V110					
73 - 76	4R5V118					
77 - 81	4R5V125					
82 - 85	4R5V132	R1				
86 - 88	4R5V125					
89 - 93	4R5V132					
94 - 99	4R5V140					
100 - 102	6R5V97					
103 - 107	6R5V103	R1				
108 - 110	6R5V109					
111 - 117	6B5V110					
118 - 123	6R5V118					
124 - 128	6R5V109					
129 - 130	6R5V110	R1				

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 407SMTP25B

407SMTP25B Variable Pitch									
Output rpm	Driver		Driven		Belts	Belt Qty.			
	Variable Pitch	Bushing	Fixed Pitch	Bushing					
9 - 10	4MVP45B59	-	4MBV380R	R1	AX	4			
11 - 12	4MVP40B54		4MVB300R		CX		2		
13 - 16	4MVP55B69								
17 - 19	4MVP70B84								
20 - 21	4MVP80B94Q	Q2	2C270R	Q1		5VX		3	
22 - 24	2MVP75C97Q								
25 - 27	2MVP85C107Q								
28 - 19	2MVP95C117Q								
30 - 33	2MVP105C127Q		2TC240	R1	5VX	3			
34 - 37	3MVP915V105Q								
38 - 40	3MVP1015V115Q								
41 - 44	3MVP1115V125Q		3MV5V180R	R1	5VX	3			
45 - 48	3MVP915V105Q								
49 - 52	3MVP1015V115Q								
53 - 57	3MVP1115V125Q								
58 - 62	3MVP1015V115Q		3MV5V140R						
63 - 68	3MVP1115V125Q								
69 - 72	4MVP1015V115	-	4MV5V103R	R1	5VX	3			
73 - 80			4MV5V97R						

407SMTP25B Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
7	4TB40	P2	4TB380	Q1	AX	4
8	4B5V44	P1				
9	4B5V50	B				
10	4B5V56					
11	3B5V42	P1	3B5V278	B	5VX	3
12	3B5V46	B				
13	3B5V52					
14	3B5V54					
15	3B5V58					
16	3B5V54					
17	3B5V56					
18	3B5V60					
19	3B5V64					
20	3B5V66					
21	4B5V48					
22	4B5V50					
23	4B5V52					
24	4B5V54					
25 - 26	4B5V58					
27	4B5V60					
28	4B5V62					
29	4B5V64					
30 - 31	3B5V80					
32 - 33	3B5V86					
34	3R5V90		R1			
35 - 37	3B5V94	B				
38 - 39	3R5V103	R1				
40 - 41	3R5V109					
42 - 43	3B5V110	B				
44 - 45	3R5V118	R1				
46 - 48	3B5V124	B				
49	3R5V132	R1				
50 - 52	3R5V118					
53 - 56	3B5V124	B				
57	3R5V136					
58 - 62	3B5V136	R1				
63 - 64	3R5V125					
65 - 67	3R5V132					
68 - 72	3B5V136					
73 - 77	5R5V103	R1	5B5V94	R1	5	
78 - 80	5R5V109					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

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It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 415SMTP05B

415SMTP05B Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
93 - 104	5MVP1015V115	-	5MV5V375	U0	5VX	5
105 - 111	5MVP105C127		5MVC360S	S2	CX	
146 - 165	6MVP1015V115		6MV5V240U	U0	5VX	6

415SMTP05B Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
90 - 92	5R5V132	R1	5U5V500	U0	5VX	5	
93 - 96	5B5V136		6U5V375				
97 - 102	6R5V109						
103 - 105	6B5V110						
106 - 111	6R5V118						
112 - 113	6B5V124						
114 - 117	6S5V125	S1					
118 - 122	6S5V132	R1	6S5V280	S1		6	
123 - 129	6B5V136	S1					
130 - 131	6S5V140	R1					
132 - 137	6R5V109	R1					
138 - 140	6B5V110	S1					
141 - 148	6R5V118	S1	6S5V280	S1			
149 - 157	6S5V125						
158 - 165	6S5V132						
166 - 168	6B5V136	R1	8U5V250	U1		8	
169 - 176	8S5V125	S1					
177 - 186	8S5V132						
187 - 199	8S5V140						
200 - 208	8S5V125						
209 - 220	8S5V132		J	105V1870J		J	
221 - 232	8S5V140						
233 - 235	105V1250J						
236 - 249	105V1320J	U1	10U5V160	U1		10	
250 - 261	105V1400J						
262 - 275	10U5V125						
276 - 292	10U5V132						
293 - 309	10U5V140						
310 - 332		10U5V150					
333 - 354		10U5V140					
355 - 372		10U5V132					

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 415SMTP15B

415SMTP15B Variable Pitch								
Output rpm	Driver		Driven		Belts	Belt Qty.		
	Variable Pitch	Bushing	Fixed Pitch	Bushing				
24 - 28	5MVP75C97	-	5MVC440U	U0	CX	5		
29 - 33			5MVC360S	S2				
34 - 38	5VMP85C107							
39 - 44	5MVP105C127		4MV5V300S	S1	5VX	4		
45 - 48	4MVP1015V115							
49 - 52	4MVP1115V125							
53 - 56	5MVP915V105		4MV5V280S	U0				
57 - 62			5MV5V212U					
63 - 67	5MVP1015V115		S2			5		
68 - 74	5MVP11115V115							
75 - 80	6MVP1015V115		6MV5V180S	S2	6			
81 - 90			6MV5V160S					
91 - 101			6MV5V140S					

415SMTP15B Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
12	4Q5V49	Q1	4U5V500	U0	5VX	4
13	4B5V52	B				
14	4B5V54					
15	4B5V60					
16	4B5V62					
17	4B5V66					
18	4B5V70					
19	4B5V74					
20	4B5V80					
21	4R5V85	R1				
22	4R5V86	B				
23	4B5V90					
24	4B5V94					
25 - 26	4B5V74					
27	4R5V80	R1	4S5V375	S1		
28	4R5V85					
29 - 30	4R5V90					
31 - 32	4B5V94					B
33	4R5V97	R1				
34 - 35	4R5V103					
36	4R5V109					
37	4B5V110					B
38	6B5V86	R1				6S5V280
39 - 41	6R5V90					
42 - 43	6B5V94					
44	6B5V86					
45 - 46	6B5V90					
47 - 48	6B5V94					
49	6R5V97					
50 - 52	6R5V103					
53 - 55	6R5V109					
56 - 57	6B5V110					
58 - 60	6R5V118					
61 - 64	6B5V124	S1	6B5V250	R1		
65 - 66	6S5V132					
67	6B5V136					
68 - 71	6S5V140					
72 - 75	6R5V118	R1			6B5V200	
76 - 79	6B5V124					
80 - 83	6S5V132					
84 - 86	6B5V136					
87 - 88	6S5V140					
89 - 92	6R5V118	R1			6B5V160	
93 - 98	6S5V125					
99 - 101	6S5V132					
102 - 106	8S5V132	S1	8S5V160			
107 - 112	8S5V140		S1			
113 - 120				8S5V150		
121 - 128				8S5V132		
129 - 130	8S5V140					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 415SMTP25B

415SMTP25B Variable Pitch									
Output rpm	Driver		Driven		Belts	Belt Qty.			
	Variable Pitch	Bushing	Fixed Pitch	Bushing					
11 - 12	5MVP40B54	-	5MVB300R	R2	BX	5			
13 - 14	5MVP50B64								
15 - 16	5MVP60B74								
17 - 19	3MVP85C107Q	Q2	3MVC360R	R2	CX	3			
20 - 21	3MVP95C117Q								
22 - 24	4MVP75C97Q	Q3	4MVC270R	R1	5VX	4			
25 - 28	4MVP95C117Q								
29 - 33	4MVP115C137Q								
34 - 38	4MVP95C117Q	-	4MVC200R	S1	5VX	5			
39 - 46	4MVP1015V115		4MV5V180R						
47 - 51	5MVP915V105		5MV5V140S						
52 - 56	5MVP1015V115								
57 - 61	5MVP1115V125								
62 - 67	5MVP1115V125	-	5MV5V125S	R2	5VX	5			
68 - 72			5MV5V118S						
73 - 80			5MV4V109R						

415SMTP25B Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
6	3B5V42	P1	3U5V500	U0	5VX	3
7	3B3V50	B				
8	3B5V44	P1				
9	3V5B50	B	3S5V375	S1		
10	3B5V54					
11	3B5V60					
12	3B5V66					
13	3B5V70					
14	4B5V50					
15	4B5V56					
16	4B5V58					
17	4B5V62					
18	4B5V64					
19	4B5V68					
20	4B5V74					
21	3B5V86					
22	3B5V90					
23	3R5V92	R1	3B5V278	B		
24	3R5V97					
25	3R5V103					
26	3R5V109					
27	3B5V110					
28 - 29	3R5V118	R1				
30 - 31	3B5V124	B				
32 - 33	4R5V90	R1				
34	4B5V90	B	4B5V184			
35	4B5V94					
36	4B5V97					
37 - 38	4R5V103	R1	5B5V160	R1		
39 - 41	5B5V94					
42	5R5V97					
43 - 44	5R5V103					
45	5R5V109					
46 - 47	5B5V110					
48 - 50	5R5V118					
51	5R5V125					
52 - 54	6R5V97					
55 - 56	6R5V103					
57 - 58	6R5V109					
59 - 62	6B5V110					
63 - 66						
67 - 70		6R5V118				
71 - 74	6B5V124					
75 - 78	6S5V132	S1	6R5V118			
79 - 80	6S5V140					

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 507SMTP15B

507SMTP15B Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
28 - 30	5MVP915V105	-	5MV5V440U	U0	5VX	5
31 - 35						
36 - 39	5MVP1015V115					
40 - 43	5MVP1115V125					
44 - 49	6MVP1015V115		6MV5V300U			
50 - 53			6MV5V280U			
54 - 61			6M5V240U			6

507SMTP15B Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
22	5B5V86	R1	5U5V500	U0	5VX	5	
23 - 24	5B5V90						
25	5B5V94						
26	5R5V103						
27 - 28	6B5V80		6U5V375			6	
29 - 30	6V5V86						
31	6B5V90						
32 - 33	6R5V97						
34 - 35	6R5V103						
36 - 38	6R5V109						
39 - 41	6R5V118						
42 - 44	6B5V124						
45 - 46	6S5V132	S1					
47 - 48	6B5V136						
49 - 51	6R5V109	R1	6S5V280	S1			8
52 - 54	6R5V118		6B5V250	R1			
55 - 58	6B5V110		8U5V250	U1			
59 - 61	6R5V118	S1	8U5V212				
62 - 65	8S5V125						
66 - 69	8S5V132						
70 - 72	8S5V140						
73 - 77	8S5V125	J	105V1870J	J	10		
78 - 81	8S5V132						
82 - 87	8S5V140						
88 - 92	105V1320J	U1	10U5V160	U1			
93 - 97	105V1400J						
98 - 102	10U5V125						
103 - 108	10U5V132						
109 - 115	10U5V140					10U5V150	
116 - 123					10U5V140		
124 - 130							

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 507SMTP25B

507SMTP25B Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
12 - 14	6MVP60B74	-	6MVB380R	R2	BX	6
15 - 17	3MVP85C107Q	Q2	3MVC440U	U0	CX	3
18 - 20	3MVP105C127Q		3MV5V300S	S1	5VX	5
21 - 24	3MVP915V105Q		4MV5V280S			
25 - 28	4MVP1015V115	-	5MV5V200S			
29 - 31	4MVP1115V125		5MV5V180S			
32 - 36	5MVP915V105		5MV5V150S			
37 - 40	5MVP1015V115		5MV5V140S			
41 - 44	5MVP1115V125					
45 - 48	5MVP1015V115					
49 - 53	5MVP1115V125					
54 - 61	5MVP1115V125					

507SMTP25B Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
7	4B5V50	B	4U5V500	U0	5VX	4	
8	4B5V56						
9	4B5V64						
10	5B5V52	Q1	5U5V375			5	
11	5B5V58						
12	5B5V64						
13	5B5V68						
14	5B5V74						
15	5B5V80	R1	5B5V250	R1			
16	5R5V90						
17	5B5V90						
18	5B5V94						
19	5R5V103						
20 - 21	5B5V110						
22	5B5V80						
23	5R5V85						
24	5B5V86						
25	5B5V90						
26	5B5V94						
27	5B5V97						
28	5R5V103						
29	5R5V109						
30 - 31	5B5V110						
32 - 33	5R5V118						
34	5B5V124						
35 - 36	6R5V103		6B5V200				
37 - 39	6B5V110						
40 - 41	6R5V118						
42 - 44	6B5V124						
45 - 46	6S5V132						
47 - 49	6S5V140	S1			6		
50 - 53	6R5V118	R1	6B5V154				
54 - 57	6B5V124						
58 - 59	6S5V132						
60 - 61	6B5V136						
62 - 66	8S5V140	S1	8S5V150	S1	8		
67 - 71	8S5V132		8S5V132				
72 - 80	8S5V140		8S5V125				

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 608SMTP15B

608SMTP15B Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
No Drives Available						

608SMTP15B Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
20	8R5V80	R2	8U5V500	U1	5VX	8
21	8R5V85					
22 - 23	8R5V90					
24	8S5V97					
25 - 26	8S5V103	S1				
27 - 28	8S5V109					
29 - 30	8S5V118					
31 - 32	8S5V125					
33 - 34	8S5V132					
35 - 37	8S5V140					
38 - 40	8S5V118					
41 - 42	8S5V125		8U5V375			
43 - 45	8S5V132					
46 - 48	8S5V140					
49 - 51	10U5V125					
52 - 54	10U5V132	U1	105V3150M	M		10
55 - 57	10U5V140		10U5V280	U1		
58 - 60	10U5V132					
61 - 64	10U5V140					
65 - 68	10U5V132					
69 - 72	10U5V140					
73 - 75	10U5V125		10U5V212			
76 - 80	10U5V132					
81 - 84	10U5V140					

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 608SMTP25B

608SMTP25B Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
13 - 14	5MVP75C97	-	5MVC440U	U0	CX	5
15 - 16	5MVP85C107					
17 - 20	5MVP915V105		5MV5V375U			
21 - 24			5MV5V300U			
25 - 28			6MV5V280U		5VX	
29 - 32	6MVP1015V115		6MV5V240U			6
33 - 35			6MV5V212U			

608SMTP25B Fixed Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Fixed Pitch	Bushing	Fixed Pitch	Bushing		
9	5B5V66	Q1	5U5V500	U0	5VX	5
10	5Q5V75	Q2				
11	5B5V80	R1				
12	5B5V66					
13	5B5V94					
14	5R5V80					
15	5B5V80					
16	5R5V90					
17	5B5V90					
18	5R5V97					
19	5R5V103					
20	5B5V110					
21 - 22	5R5V118					
23	5R5V125					
24	5R5V132					
25	5B5V136					
26	5R5V140					
27	6B5V110					
28 - 29	6R5V118					
30 - 31	6B5V124					
32 - 33	6S5V132	S1				
34 - 35	6S5V140					
36 - 37	8S5V132					
38 - 39	8S5V140					
40 - 41						
42 - 43	8S5V132					
44 - 46	8S5V140					
47 - 49	8S5V132					
50 - 52	8S5V140					
53 - 54	10U5V125					
55 - 57	10U5V132					
58 - 62	10U5V140					
63 - 66	10U5V132					
67 - 70	10U5V132					
71 - 74	10U5V140					
75 - 78						
79 - 80						
			10U5V160	U1	10	
			10U5V140			
			10U5V132			
			10U5V125			
			10S5V118			

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.



Accessories Shaft Mount Reducers

Pre-selected Belt Drives - 800SMTP25

800SMTP25 Variable Pitch						
Output rpm	Driver		Driven		Belts	Belt Qty.
	Variable Pitch	Bushing	Fixed Pitch	Bushing		
No Drives Available						

800SMTP25 Fixed Pitch							
Output rpm	Driver		Driven		Belts	Belt Qty.	
	Fixed Pitch	Bushing	Fixed Pitch	Bushing			
5 - 9	No Drives Available						
10	85V710SF	SF	8U5V500	U1	5V	8	
11	6R5V80	R1	6U5V500	U0		6	
12	6B5V86						
13	6B5V90						
14	6R5V103						
15	6R5V109						
16	6B5V110						
17	6S5V125	S1					
18	6B5V124	R1					
19	6B5V136						
20	6S5V140	S1					58V4450N
21	5S8V132						
22	5S8V140						
23	5S8V132						
24 - 25	5S8V140		5U8V400	U0			
26	6S8V132		68V3550N	N	6		
27 - 28	6S8V140						
29 - 30	8S5V132	85V3150M	M	5VX	8		
31	8S5V140						
32 - 33	10U5V132	U1	10U5V280			U1	10
34 - 35	10U5V140		10U5V250				
36 - 38	10U5V132						
39 - 40	10U5V140		105V2360M		M		
41 - 42							
43 - 44	8S8V140	S2	8U8V224		U1	8V	8
45 - 47	10U8V140	U1	10U8V212				
48 - 50			10U8V200				
51 - 80	No Drives Available						

Shaft Mount
Accessories

Notes: Pre-selected belt drives are based on the following guidelines:

- NEMA Recommendations for Sheave Diameter and Width
- Average Service at Reducer Rated Load
- 2 Belt Minimum

For other conditions (including but not limited to; fire hazard, explosion hazard or choked input), contact Application Engineering (1 800 626 2093) for assistance in selecting a belt drive.

It is recommended that 250 hp motors and larger the sheave diameters shown be checked with the motor manufacturer to be sure they meet their recommendations for minimum pitch diameter.

Belt Guard

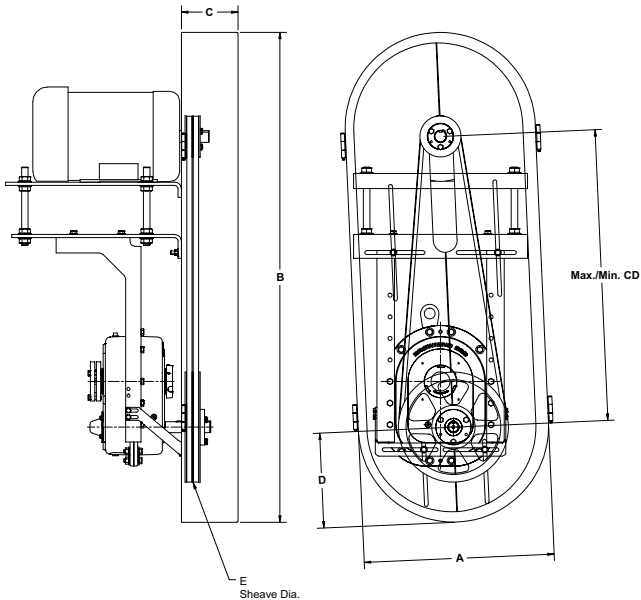
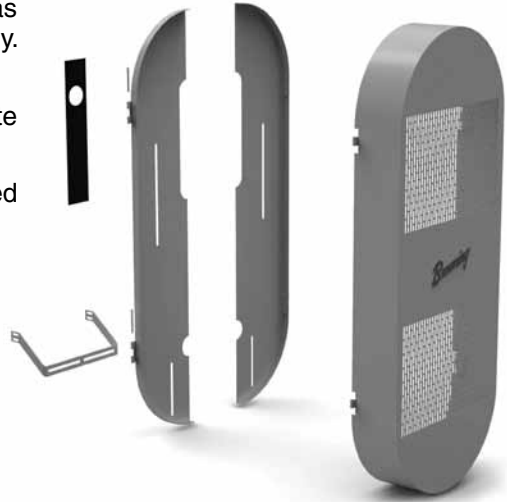
Belt guard assemblies consist of a guard kit and a mounting bracket kit as shown in the tables. Mounting bracket kit must be purchased separately. These belt guards may also be used with screw conveyor drives.

Belt guard standard color is yellow. Brackets supplied can accommodate fan kits when required.

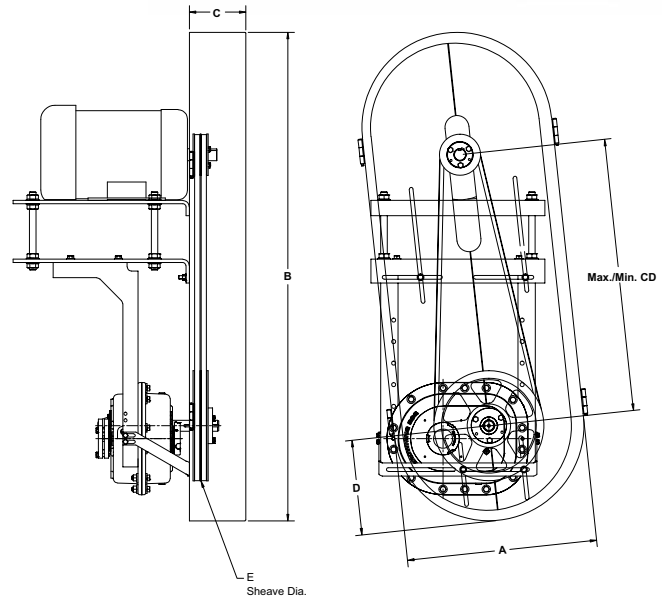
Plated fasteners providing protection in outdoor applications are supplied with the guard assembly.

Belt guards have a hinged, removable cover.

Belt guards may be assembled with the belt drive already installed.



Top Mount



Side Mount

Dimensions in Inches

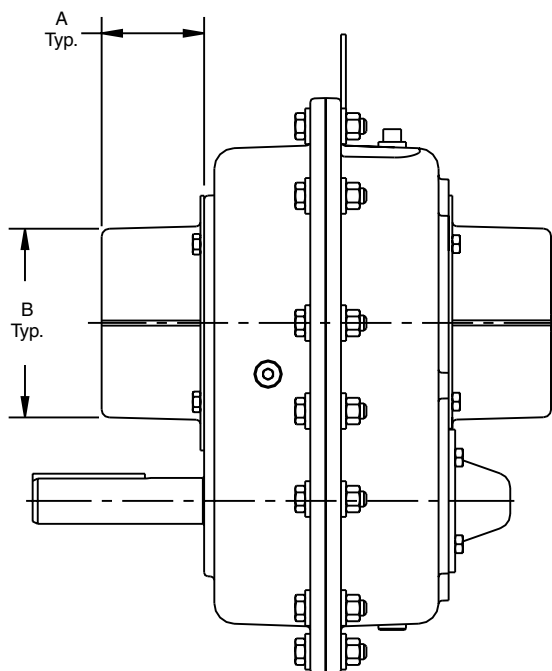
Belt Guard Kit No.	Center distance		A	B	C	D	E
	Min.	Max.					Max.
BGP10 13-20	13.00	20.00	11.00	31.50	6.50	5.50	10.00
BGP14 18-30	18.00	30.00	15.00	45.50	6.50	7.50	14.00
BGP20 22-34	22.00	34.00	21.00	55.50	6.50	10.50	20.00
BGP24 24-38	24.00	38.00	25.00	63.50	8.50	12.50	24.00
BGP28 32-48	32.00	48.00	29.00	77.50	8.50	14.50	28.00
BGP32 42-67	42.00	62.00	33.00	95.50	8.50	16.50	32.00

Top Mount		Side Mount	
Mounting Bracket Kit No.	Reducer Size	Mounting Bracket Kit No.	Reducer Size
107BGMKPT	107	107BGMKPS	107
115BGMKPT	115	115BGMKPS	115
203BGMKPT	203	203BGMKPS	203
207BGMKPT	207	207BGMKPS	207
215BGMKPT	215	215BGMKPS	215
307BGMKPT	307	307BGMKPS	307
315BGMKPT	315	315BGMKPS	315
407BGMKPT	407		
415BGMKPT	415		
507BGMKPT	507		
608BGMKPT	608		
800BGMKPT	800		

Bushing Guard

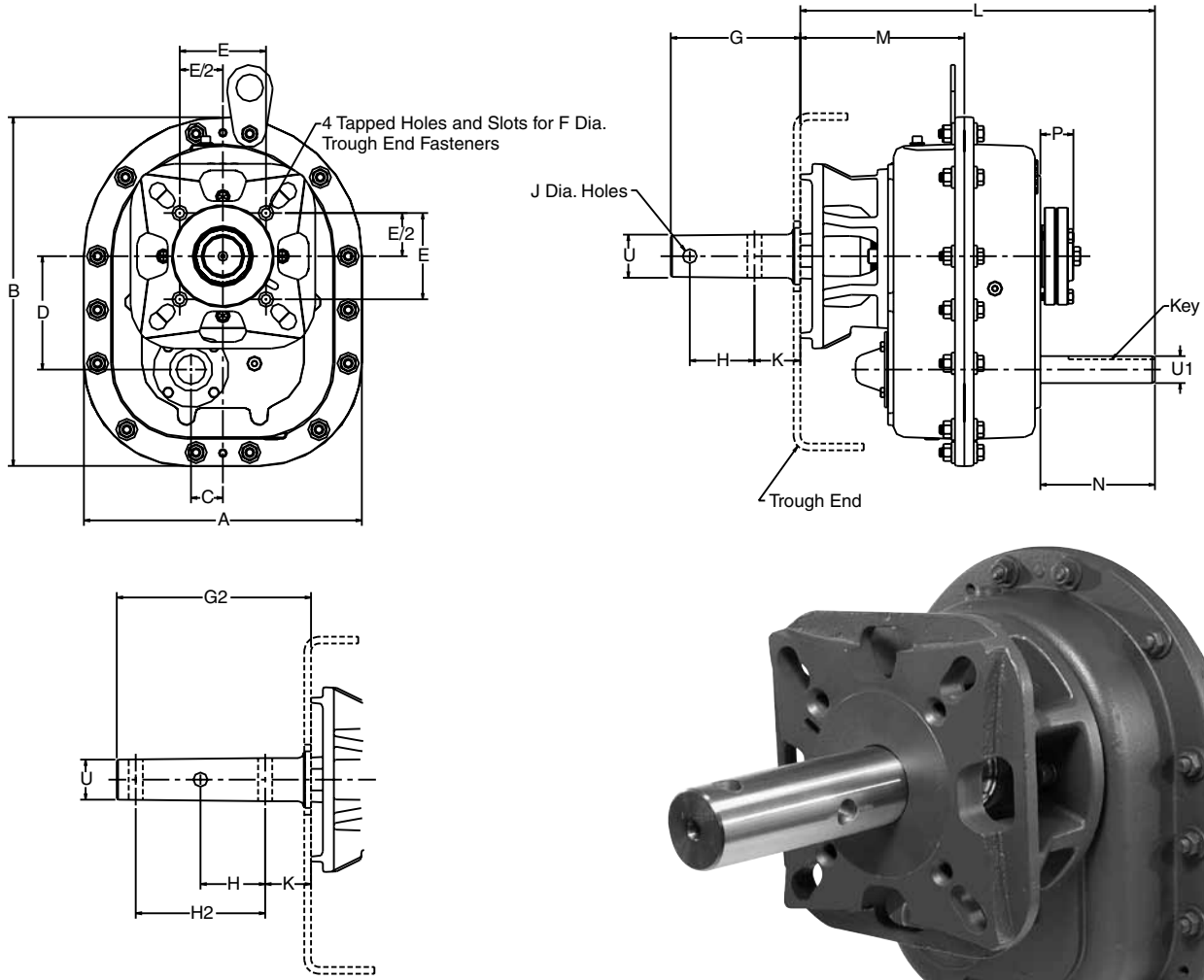
Bushing guard kits have the following features:

- One kit will cover the bushing and end cap
- Kit may be used with bushing on the front or rear of the reducer housing
- Guard may be installed after the reducer and bushing are mounted to the equipment
- Guard has the ability to mount on several different shaft sizes



Reducer Size	Bushing Guard Kit	Bushing Guard Kit when used with optional Fan Kit	A	B
107	107 Bushing Guard Kit	NA	2.44	3.88
115	115 Bushing Guard Kit	NA	2.51	4.74
203	203 Bushing Guard Kit	NA	2.62	5.12
207	207 Bushing Guard Kit	NA	2.75	5.50
215	215 Bushing Guard Kit	NA	2.19	5.93
307	307 Bushing Guard Kit	307 Bushing Guard Fan Kit	3.00	7.10
315	315 Bushing Guard Kit	315 Bushing Guard Fan Kit	3.02	7.81
407	407 Bushing Guard Kit	407 Bushing Guard Fan Kit	2.50	8.75
415	415 Bushing Guard Kit	415 Bushing Guard Fan Kit	2.75	10.25
507	507 Bushing Guard Kit	507 Bushing Guard Fan Kit	3.15	11.00
608	608 Bushing Guard Kit	608 Bushing Guard Fan Kit	3.69	12.50
800	NA	NA	NA	NA

SMT-P Screw Conveyor Drives



Optional 3 Hole Shaft



BASIC UNIT SIZE	DIMENSIONS IN INCHES									KEY
	A	B	C	D	L	M	N	P	U1	
107SMTP	9.76	12.07	1.18	3.77	13.73	6.90	4.08	1.61	0.75	.188 x .188 x 2.88
115SMTP	11.00	14.08	1.35	4.36	14.35	7.14	4.24	1.72	1.13	.250 x .250 x 2.75
203SMTP	12.88	16.16	1.48	5.26	16.44	7.60	5.31	1.72	1.25	.250 x .250 x 3.88
207SMTP	14.50	18.47	1.63	6.08	17.35	8.51	5.12	1.80	1.44	.375 x .375 x 3.75
215SMTP	16.25	20.88	2.12	7.01	19.27	9.25	5.87	1.93	1.88	.500 x .500 x 3.75
307SMTP	19.04	24.37	2.25	7.78	23.03	10.94	7.45	2.52	2.00	.500 x .500 x 6.50
315SMTP	19.90	26.35	2.63	8.53	25.14	11.56	8.32	2.90	2.13	.500 x .500 x 7.50
407SMTP_B	21.69	27.80	3.13	9.24	23.89	12.06	6.70	2.58	2.13	.500 x .500 x 6.00

DRIVE SHAFT DIA. "U"	FOR SCREW DIA.	DIMENSIONS IN INCHES							
		E	F	G	G2	H	H2	J	K
1.50	6,9	4.00	0.50	6.00	9.00	3.00	6.00	0.53	2.13
2.00	9-12	5.13	0.63	6.00	9.00	3.00	6.00	0.66	2.13
2.44	12,14	5.63	0.63	6.69	9.69	3.00	6.00	0.66	2.75
3.00	12-20	6.00	0.75	6.88	9.88	3.00	6.00	0.78	2.88
3.44	18-24	6.75	0.75	9.13	13.13	4.00	8.00	0.91	3.88

SMTP Screw Conveyor Drives

STOCK SMTP REDUCER (1)	TYPE SMTP SCREW CONVEYOR ADAPTER	TYPE SMTP SCREW CONVEYOR SHAFT (2)	OPTIONAL SEAL CARTRIDGES		FELT SEAL (3)
			WASTE PACK KIT	PACKING GLAND KIT	
1 1/2" DRIVE SHAFT - FOR SCREW DIAMETERS 6 - 10"					
107SMTP__	107SCA-P	107DSP108__	107WPP	107PGP	FR200
115SMTP__	115SCA-P	115DSP108__	115-203WPP	115-203PGP	FR210
203SMTP__	203SCA-P	203DSP108__			
2" DRIVE SHAFT - FOR SCREW DIAMETERS 9 - 12"					
107SMTP__	107SCA-P	107DSP200__	107WPP	107PGP	FR200
115SMTP__	115SCA-P	115DSP200__	115-203WPP	115-203PGP	FR210
203SMTP__	203SCA-P	203DSP200__			
207SMTP__	207SCA-P	207DSP200__	207-407WPP	207-407PGP	FR308
215SMTP__	215SCA-P	215DSP200__			
2 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 12 and 14"					
107SMTP__	107SCA-P	107DSP207__	107WPP	107PGP	FR200
115SMTP__	115SCA-P	115DSP207__	115-203WPP	115-203PGP	FR210
203SMTP__	203SCA-P	203DSP207__			
207SMTP__	207SCA-P	207DSP207__	207-407WPP	207-407PGP	FR308
215SMTP__	215SCA-P	215DSP207__			
3" DRIVE SHAFT - FOR SCREW DIAMETERS 12 - 20"					
107SMTP__	107SCA-P	107DSP300__	107WPP	107PGP	FR200
115SMTP__	115SCA-P	115DSP300__	115-203WPP	115-203PGP	FR210
203SMTP__	203SCA-P	203DSP300__			
207SMTP__	207SCA-P	207DSP300__	207-407WPP	207-407PGP	FR308
215SMTP__	215SCA-P	215DSP300__			
307SMTP__	307SCA-P	307DSP300__	207-407WPP	207-407PGP	FR308
315SMTP__	315SCA-P	315DSP300__			
407SMTP__B	407SCA-PB	407DSP300__B			
3 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 18 - 24"					
207SMTP__	207SCA-P	207DSP307__	207-407WPP	207-407PGP	FR308
215SMTP__	215SCA-P	215DSP307__			
307SMTP__	307SCA-P	307DSP307__	207-407WPP	207-407PGP	FR308
315SMTP__	315SCA-P	315DSP307__			
407SMTP__B	407SCA-PB	407DSP307__B			

Shaft stress based on transmitted load must always be checked. Calculations must account for drilled holes on shaft.

SMTP screw conveyor drives may be assembled in the field.

Required components include:

SMTP reducer
SMTP screw conveyor adapter
SMTP screw conveyor shaft

Optional components include:

Waste pack
Packing gland
Felt seal

(1) Complete part number by adding ratio, ie: 05, 09, 15, 25 or 35

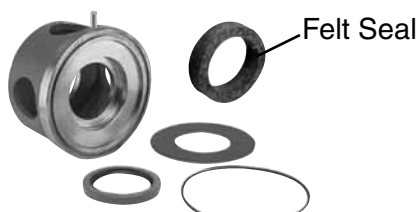
(2) Complete part number by adding shaft type

Standard	2 hole steel shaft	= leave blank (example 107DSP108)
	3 hole steel shaft	= -3 (example 107DSP108-3)
Optional	2 hole stainless steel shaft	= SS (example 107DSP108SS)
	3 hole stainless steel shaft	= -3SS (example 107DSP108-3SS)

(3) Felt seal can be added to the waste pack or packing gland seal cartridge.



Screw Conveyor Adapter Kit



Waste Pack Kit

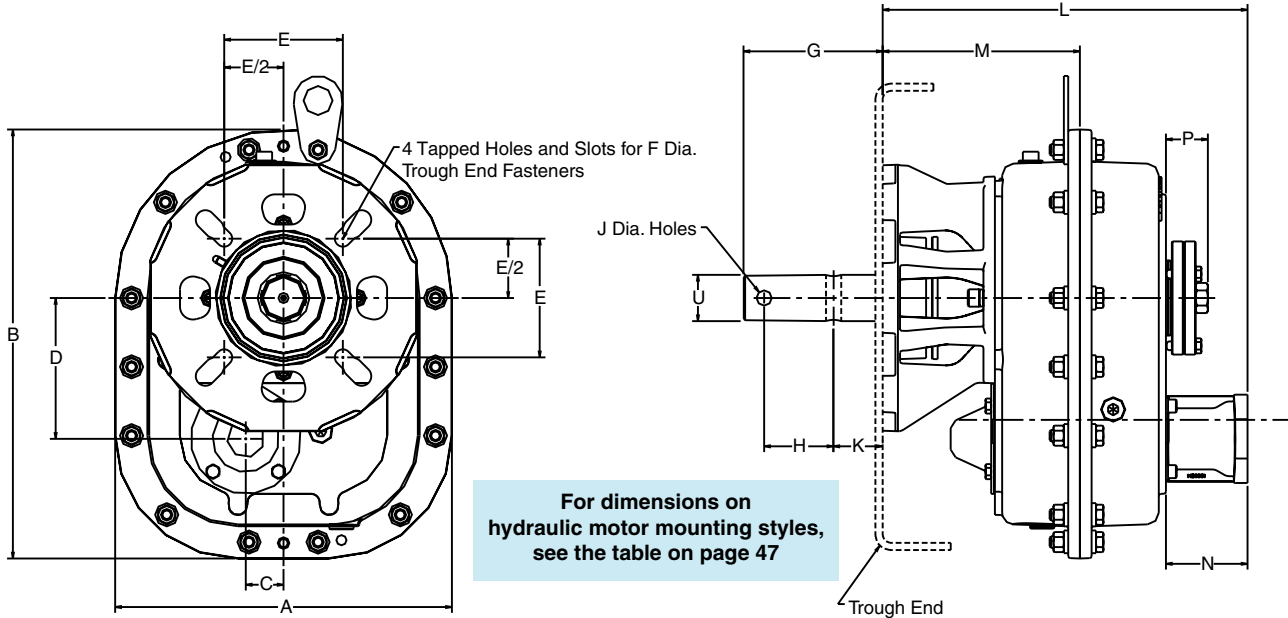


Packing Gland Kit



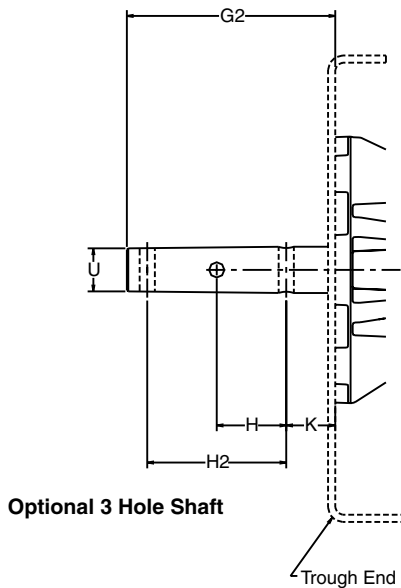
Screw Conveyor Drive Shaft Kit

HMTP Screw Conveyor Drives



Standard 2 Hole Shaft

BASIC UNIT SIZE	DIMENSIONS IN INCHES	
	L	N
107HMTP 6B SAE-A2	12.72	3.08
107HMTP 9T SAE-A2	12.72	3.08
107HMTP 13T SAE-B2	13.21	3.56
115HMTP 6B SAE-A2	13.19	3.08
115HMTP 9T SAE-A2	13.19	3.08
115HMTP 13T SAE-B2	13.67	3.56
203HMTP 6B SAE-A2	14.71	3.58
203HMTP 9T SAE-A2	14.71	3.58
203HMTP 13T SAE-B2	14.90	3.77
203HMTP 14T SAE-C4	15.21	4.08
207HMTP 6B SAE-A2	15.75	3.52
207HMTP 13T SAE-B2	15.94	3.71
207HMTP 14T SAE-C4	16.25	4.02
215HMTP 6B SAE-A2	17.11	3.72
215HMTP 13T SAE-B2	17.10	3.71
215HMTP 14T SAE-C4	17.66	4.27
307HMTP 6B SAE-A2	19.23	3.65
307HMTP 14T SAE-C4	19.78	4.20
315HMTP 6B SAE-A2	20.47	3.65
315HMTP 14T SAE-C4	21.02	4.20



Optional 3 Hole Shaft

BASIC UNIT SIZE	DIMENSIONS IN INCHES					
	A	B	C	D	M	P
107HMTP	9.76	12.07	1.18	3.77	6.90	1.61
115HMTP	11.00	14.08	1.35	4.36	7.14	1.72
203HMTP	12.88	16.16	1.48	5.26	7.60	1.72
207HMTP	14.50	18.47	1.63	6.08	8.51	1.80
215HMTP	16.25	20.88	2.12	7.01	9.25	1.93
307HMTP	19.04	24.37	2.25	7.78	10.94	2.52
315HMTP	19.90	26.35	2.63	8.53	11.56	2.90

DRIVE SHAFT DIA. U" " "	FOR SCREW DIA.	DIMENSIONS IN INCHES							
		E	F	G	G2	H	H2	J	K
1.50	6,9	4.00	0.50	6.00	9.00	3.00	6.00	0.53	2.13
2.00	9-12	5.13	0.63	6.00	9.00	3.00	6.00	0.66	2.13
2.44	12,14	5.63	0.63	6.69	9.69	3.00	6.00	0.66	2.75
3.00	12-20	6.00	0.75	6.88	9.88	3.00	6.00	0.78	2.88
3.44	18-24	6.75	0.75	9.13	13.13	4.00	8.00	0.91	3.88

HMTP Screw Conveyor Drives

STOCK HMTP REDUCER (1)	TYPE SMTP SCREW CONVEYOR ADAPTER	TYPE SMTP SCREW CONVEYOR SHAFT (2)	OPTIONAL SEAL CARTRIDGES		FELT SEAL (3)
			WASTE PACK KIT	PACKING GLAND KIT	
1 1/2" DRIVE SHAFT - FOR SCREW DIAMETERS 6 - 10"					
107HMTP__	107SCA-P	107DSP108__	107WPP	107PGP	FR200
115HMTP__	115SCA-P	115DSP108__	115-203WPP	115-203PGP	FR210
203HMTP__	203SCA-P	203DSP108__			
2" DRIVE SHAFT - FOR SCREW DIAMETERS 9 - 12"					
107HMTP__	107SCA-P	107DSP200__	107WPP	107PGP	FR200
115HMTP__	115SCA-P	115DSP200__	115-203WPP	115-203PGP	FR210
203HMTP__	203SCA-P	203DSP200__			
207HMTP__	207SCA-P	207DSP200__	207-407WPP	207-407PGP	FR308
215HMTP__	215SCA-P	215DSP200__			
2 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 12 and 14"					
107HMTP__	107SCA-P	107DSP207__	107WPP	107PGP	FR200
115HMTP__	115SCA-P	115DSP207__	115-203WPP	115-203PGP	FR210
203HMTP__	203SCA-P	203DSP207__			
207HMTP__	207SCA-P	207DSP207__	207-407WPP	207-407PGP	FR308
215HMTP__	215SCA-P	215DSP207__			
3" DRIVE SHAFT - FOR SCREW DIAMETERS 12 - 20"					
107HMTP__	107SCA-P	107DSP300__	107WPP	107PGP	FR200
115HMTP__	115SCA-P	115DSP300__	115-203WPP	115-203PGP	FR210
203HMTP__	203SCA-P	203DSP300__			
207HMTP__	207SCA-P	207DSP300__	207-407WPP	207-407PGP	FR308
215HMTP__	215SCA-P	215DSP300__			
307HMTP__	307SCA-P	307DSP300__	207-407WPP	207-407PGP	FR308
315HMTP__	315SCA-P	315DSP300__			
3 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 18 - 24"					
207HMTP__	207SCA-P	207DSP307__	207-407WPP	207-407PGP	FR308
215HMTP__	215SCA-P	215DSP307__			
307HMTP__	307SCA-P	307DSP307__	207-407WPP	207-407PGP	FR308
315HMTP__	315SCA-P	315DSP307__			

Shaft stress based on transmitted load must always be checked. Calculations must account for drilled holes on shaft.

HMTP screw conveyor drives may be assembled in the field.

Required components include:

HMTP reducer
SMTP screw conveyor adapter
SMTP screw conveyor shaft

Optional components include:

Waste pack
Packing gland
Felt seal

(1) Complete part number by adding ratio, ie: 05, 09, 15, 25 or 35

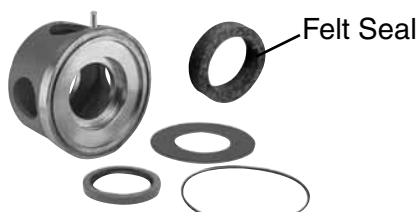
(2) Complete part number by adding shaft type

Standard	2 hole steel shaft	= leave blank (example 107DSP108)
	3 hole steel shaft	= -3 (example 107DSP108-3)
Optional	2 hole stainless steel shaft	= SS (example 107DSP108SS)
	3 hole stainless steel shaft	= -3SS (example 107DSP108-3SS)

(3) Felt seal can be added to the waste or packing gland pack seal cartridge.



Screw Conveyor Adapter Kit



Waste Pack Kit

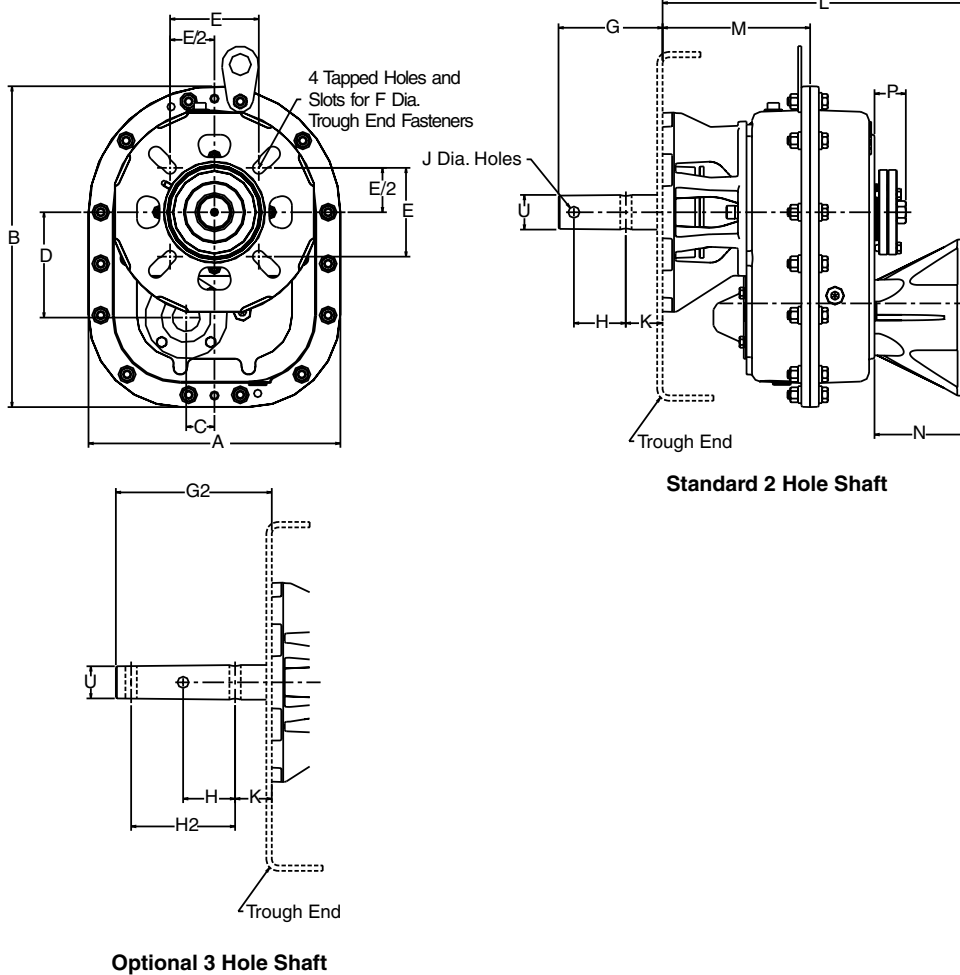


Packing Gland Kit



Screw Conveyor Drive Shaft Kit

CMTM Screw Conveyor Drives



PART NO.	DIMENSIONS IN INCHES	
	L	N
107CMTM Q56	12.97	3.32
107CMTM Q140	12.97	3.32
115CMTM Q56	13.43	3.32
115CMTM Q140	13.43	3.32
115CMTM Q180	15.72	5.61
203CMTM Q56	14.95	3.82
203CMTM Q140	14.95	3.82
203CMTM Q180	16.73	5.61
203CMTM Q210	16.73	5.61
207CMTM Q56	16.00	3.76
207CMTM Q140	16.00	3.76
207CMTM Q180	17.77	5.55
207CMTM Q210	17.77	5.55
215CMTM Q56	17.22	3.83
215CMTM Q140	17.22	3.83
215CMTM Q180	19.25	5.86
215CMTM Q210	19.25	5.86
215CMTM Q250	19.25	5.86
307CMTM Q56	19.34	3.76
307CMTM Q140	19.34	3.76
307CMTM Q180	21.37	5.79
307CMTM Q210	21.37	5.79
307CMTM Q250	21.37	5.79
315CMTM Q56	20.58	3.76
315CMTM Q140	20.58	3.76
315CMTM Q180	22.61	5.79
315CMTM Q210	22.61	5.79
315CMTM Q250	22.61	5.79

BASIC UNIT SIZE	DIMENSIONS IN INCHES					
	A	B	C	D	M	P
107CMTM	9.76	12.07	1.18	3.77	6.90	1.61
115CMTM	11.00	14.08	1.35	4.36	7.14	1.72
203CMTM	12.88	16.16	1.48	5.26	7.60	1.72
207CMTM	14.50	18.47	1.63	6.08	8.51	1.80
215CMTM	16.25	20.88	2.12	7.01	9.25	1.93
307CMTM	19.04	24.37	2.25	7.78	10.94	2.52
315CMTM	19.90	26.35	2.63	8.53	11.56	2.90

DRIVE SHAFT DIA. "U"	FOR SCREW DIA.	DIMENSIONS IN INCHES							
		E	F	G	G2	H	H2	J	K
1.50	6.9	4.00	0.50	6.00	9.00	3.00	6.00	0.53	2.13
2.00	9-12	5.13	0.63	6.00	9.00	3.00	6.00	0.66	2.13
2.44	12,14	5.63	0.63	6.69	9.69	3.00	6.00	0.66	2.75
3.00	12-20	6.00	0.75	6.88	9.88	3.00	6.00	0.78	2.88
3.44	18-24	6.75	0.75	9.13	13.13	4.00	8.00	0.91	3.88

CMTP Screw Conveyor Drives

STOCK CMTP REDUCER (1)	TYPE SMTP SCREW CONVEYOR ADAPTER	TYPE SMTP SCREW CONVEYOR SHAFT (2)	OPTIONAL SEAL CARTRIDGES		FELT SEAL (3)
			WASTE PACK KIT	PACKING GLAND KIT	
1 1/2" DRIVE SHAFT - FOR SCREW DIAMETERS 6 - 10"					
107CMTP__	107SCA-P	107DSP108__	107WPP	107PGP	FR200
115CMTP__	115SCA-P	115DSP108__	115-203WPP	115-203PGP	FR210
203CMTP__	203SCA-P	203DSP108__			
2" DRIVE SHAFT - FOR SCREW DIAMETERS 9 - 12"					
107CMTP__	107SCA-P	107DSP200__	107WPP	107PGP	FR200
115CMTP__	115SCA-P	115DSP200__	115-203WPP	115-203PGP	FR210
203CMTP__	203SCA-P	203DSP200__			
207CMTP__	207SCA-P	207DSP200__	207-407WPP	207-407PGP	FR308
215CMTP__	215SCA-P	215DSP200__			
2 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 12 and 14"					
107CMTP__	107SCA-P	107DSP207__	107WPP	107PGP	FR200
115CMTP__	115SCA-P	115DSP207__	115-203WPP	115-203PGP	FR210
203CMTP__	203SCA-P	203DSP207__			
207CMTP__	207SCA-P	207DSP207__	207-407WPP	207-407PGP	FR308
215CMTP__	215SCA-P	215DSP207__			
3" DRIVE SHAFT - FOR SCREW DIAMETERS 12 - 20"					
107CMTP__	107SCA-P	107DSP300__	107WPP	107PGP	FR200
115CMTP__	115SCA-P	115DSP300__	115-203WPP	115-203PGP	FR210
203CMTP__	203SCA-P	203DSP300__			
207CMTP__	207SCA-P	207DSP300__	207-407WPP	207-407PGP	FR308
215CMTP__	215SCA-P	215DSP300__			
307CMTP__	307SCA-P	307DSP300__	207-407WPP	207-407PGP	FR308
315CMTP__	315SCA-P	315DSP300__			
3 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 18 - 24"					
207CMTP__	207SCA-P	207DSP307__	207-407WPP	207-407PGP	FR308
215CMTP__	215SCA-P	215DSP307__			
307CMTP__	307SCA-P	307DSP307__	207-407WPP	207-407PGP	FR308
315CMTP__	315SCA-P	315DSP307__			

Shaft stress based on transmitted load must always be checked. Calculations must account for drilled holes on shaft.

CMTP screw conveyor drives may be assembled in the field.

Required components include:

CMTP reducer
SMTP screw conveyor adapter
SMTP screw conveyor shaft

Optional components include:

Waste pack
Packing gland
Felt seal

(1) Complete part number by adding ratio, ie: 05, 09, 15, 25 or 35

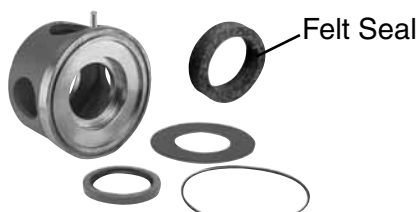
(2) Complete part number by adding shaft type

Standard	2 hole steel shaft	= leave blank (example 107DSP108)
	3 hole steel shaft	= -3 (example 107DSP108-3)
Optional	2 hole stainless steel shaft	= SS (example 107DSP108SS)
	3 hole stainless steel shaft	= -3SS (example 107DSP108-3SS)

(3) Felt seal can be added to the waste pack or packing gland seal cartridge.



Screw Conveyor Adapter Kit



Waste Pack Kit



Packing Gland Kit



Screw Conveyor Drive Shaft Kit

Screw Conveyor Trough Ends Sizes 107-407



**Formed Hot Roll
Plate Steel**

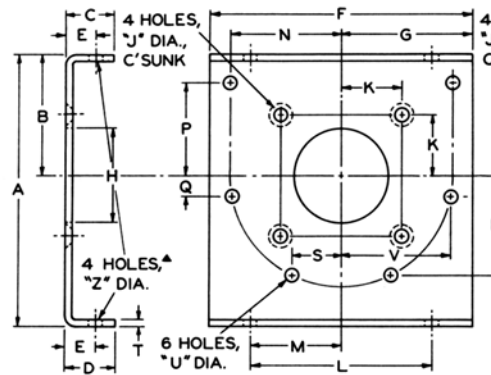


FIG 1 - 6 HOLE TYPE

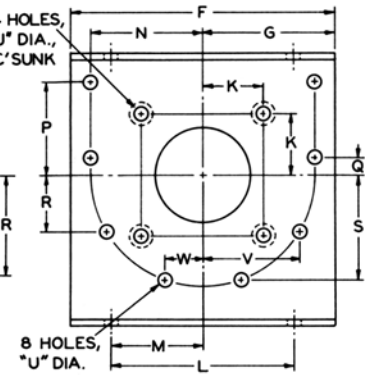


FIG 2 - 8 HOLE TYPE

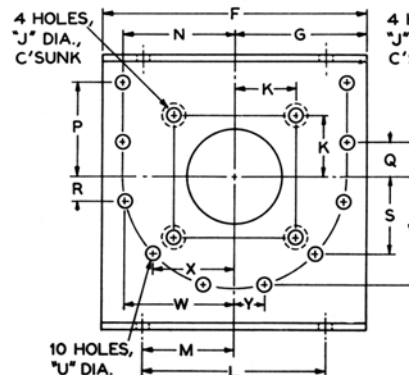


FIG 3 - 10 HOLE TYPE

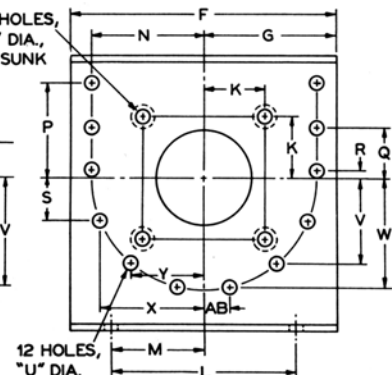


FIG 4 - 12 HOLE TYPE

Specifications

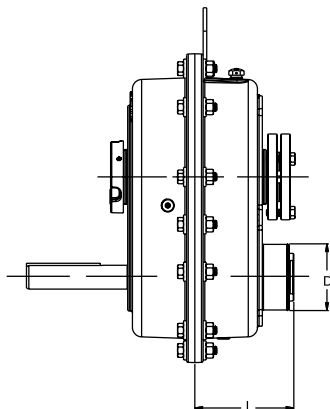
Part No.	Conveyor Screw Dia.	Drive Shaft Dia.	Fig.	Type	Dimensions										
					A	B	C	D	E	F	G	H	J	K	L
SCTE06 x 1 1/2"	6"	1 1/2"	1	6-Hole	10 1/8"	4 1/2"	1 1/2"	1 3/4"	1"	9 3/4"	4 7/8"	1 3/4"	9/16"	2"	8 1/8"
SCTE09 x 1 1/2"	9	1 1/2"	2	8-Hole	14	6 1/8"	1 5/8"	2 5/8"	1 1/2"	13 3/4"	6 7/8"	1 3/4"	9/16"	2	9 3/8"
SCTE09 x 2	9	2	2	8-Hole	14	6 1/8"	1 5/8"	2 5/8"	1 1/2"	13 3/4"	6 7/8"	2 1/4"	11/16"	2 9/16"	9 3/8"
SCTE10 x 1 1/2"	10	1 1/2"	2	8-Hole	15 1/4"	6 3/8"	2 3/8"	2 7/8"	1 3/4"	14 3/4"	7 3/8"	1 3/4"	9/16"	2	9 1/2"
SCTE10 x 2	10	2	2	8-Hole	15 1/4"	6 3/8"	2 7/8"	2 7/8"	1 3/4"	14 3/4"	7 3/8"	2 1/4"	11/16"	2 9/16"	9 1/2"
SCTE12 x 2	12	2	2	8-Hole	17 3/8"	7 3/4"	2	2 3/4"	1 5/8"	17 1/4"	8 5/8"	2 1/4"	11/16"	2 9/16"	12 1/4"
SCTE12 x 2 7/16	12	2 7/16	2	8-Hole	17 3/8"	7 3/4"	2	2 3/4"	1 5/8"	17 1/4"	8 5/8"	2 11/16"	11/16"	2 13/16"	12 1/4"
SCTE12 x 3	12	3	2	8-Hole	17 3/8"	7 3/4"	2	2 3/4"	1 5/8"	17 1/4"	8 5/8"	3 1/4"	13/16"	3	12 1/4"
SCTE14 x 2 7/16	14	2 7/16	2	8-Hole	20 1/8"	9 1/4"	2	2 7/8"	1 5/8"	19 1/4"	9 5/8"	2 11/16"	11/16"	2 13/16"	13 1/2"
SCTE14 x 3	14	3	2	8-Hole	20 1/8"	9 1/4"	2	2 7/8"	1 5/8"	19 1/4"	9 5/8"	3 1/4"	13/16"	3	13 1/2"
SCTE16 x 3	16	3	2	8-Hole	22 5/8"	10 5/8"	2 1/2"	3 1/4"	2	21 1/4"	10 5/8"	3 1/4"	13/16"	3	14 7/8"
SCTE18 x 3	18	3	3	10-Hole	25 1/2"	12 1/8"	2 1/2"	3 1/4"	2	24 1/4"	12 1/8"	3 1/4"	13/16"	3	16
SCTE18 x 3 7/16	18	3 7/16	3	10-Hole	25 1/2"	12 1/8"	2 1/2"	3 1/4"	2	24 1/4"	12 1/8"	3 11/16"	13/16"	3 3/8"	16
SCTE20 x 3	20	3	3	10-Hole	28 1/2"	13 1/2"	2 1/2"	3 3/4"	2 1/4"	26 1/4"	13 1/8"	3 1/4"	13/16"	3	19 1/4"
SCTE20 x 3 7/16	20	3 7/16	3	10-Hole	28 1/2"	13 1/2"	2 1/2"	3 3/4"	2 1/4"	26 1/4"	13 1/8"	3 11/16"	13/16"	3 3/8"	19 1/4"
SCTE24 x 3 7/16	24	3 7/16	4	12-Hole	34 5/8"	16 1/2"	2 1/2"	4 1/8"	2 1/2"	30 1/4"	15 1/8"	3 11/16"	13/16"	3 3/8"	20

Part No.	Dimensions														Wt. Lbs.
	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AB	
SCTE06 x 1 1/2"	4 1/16"	4 7/16"	3 15/32"	5/8"	3 15/16"	2 1/32"	3/16"	7/16"	4 25/64"	-	-	-	7/16"	-	6.7
SCTE09 x 1 1/2"	4 11/16"	6 1/4"	4 15/16"	13/16"	3 13/64"	5 45/64"	1/4"	7/16"	5 23/64"	2 9/16"	-	-	9/16"	-	17.8
SCTE09 x 2	4 11/16"	6 1/4"	4 15/16"	13/16"	3 13/64"	5 45/64"	1/4"	7/16"	5 23/64"	2 9/16"	-	-	9/16"	-	17.7
SCTE10 x 1 1/2"	4 3/4"	6 5/8"	4 1/8"	5/8"	3 3/8"	6 1/8"	1/4"	7/16"	5 45/64"	2 17/32"	-	-	9/16"	-	20.6
SCTE10 x 2	4 3/4"	6 5/8"	4 1/8"	5/8"	3 3/8"	6 1/8"	1/4"	7/16"	5 45/64"	2 17/32"	-	-	9/16"	-	20.5
SCTE12 x 2	6 1/8"	7 15/16"	6 1/4"	15/16"	4 7/64"	6 59/64"	5/16"	9/16"	6 51/64"	3 7/8"	-	-	11/16"	-	33.8
SCTE12 x 2 7/16	6 1/8"	7 15/16"	6 1/4"	15/16"	4 7/64"	6 59/64"	5/16"	9/16"	6 51/64"	3 7/8"	-	-	11/16"	-	33.5
SCTE12 x 3	6 1/8"	7 15/16"	6 1/4"	15/16"	4 7/64"	6 59/64"	5/16"	9/16"	6 51/64"	3 7/8"	-	-	11/16"	-	33.3
SCTE14 x 2 7/16	6 3/4"	8 15/16"	6 23/32"	1 3/32"	4 11/16"	8 27/64"	5/16"	9/16"	7 39/64"	3	-	-	11/16"	-	42.4
SCTE14 x 3	6 3/4"	8 15/16"	6 23/32"	1 3/32"	4 11/16"	8 27/64"	5/16"	9/16"	7 39/64"	3	-	-	11/16"	-	42.2
SCTE16 x 3	7 7/16"	10	8	1 5/8"	4 57/64"	9 17/64"	5/16"	11/16"	8 23/32"	3 3/4"	-	-	11/16"	-	51.1
SCTE18 x 3	8	11	9 1/2"	3 9/16"	2 25/64"	7 37/64"	5/16"	11/16"	10 19/32"	10 47/64"	7 63/64"	2 15/16"	11/16"	-	67.9
SCTE18 x 3 7/16	8	11	9 1/2"	3 9/16"	2 25/64"	7 37/64"	5/16"	11/16"	10 19/32"	10 47/64"	7 63/64"	2 15/16"	11/16"	-	67.7
SCTE20 x 3	9 5/8"	12 3/16"	10 23/32"	4 15/32"	2 13/64"	8 3/16"	3/8"	11/16"	11 23/32"	11 63/64"	9 1/32"	3 11/32"	13/16"	-	96.9
SCTE20 x 3 7/16	9 5/8"	12 3/16"	10 23/32"	4 15/32"	2 13/64"	8 3/16"	3/8"	11/16"	11 23/32"	11 63/64"	9 1/32"	3 11/32"	13/16"	-	96.7
SCTE24 x 3 7/16	10	14 1/4"	13 23/32"	7 19/32"	31/32"	5 33/64"	3/8"	11/16"	10 7/8"	13 55/64"	13 1/8"	9 7/32"	13/16"	3 5/16"	133.0

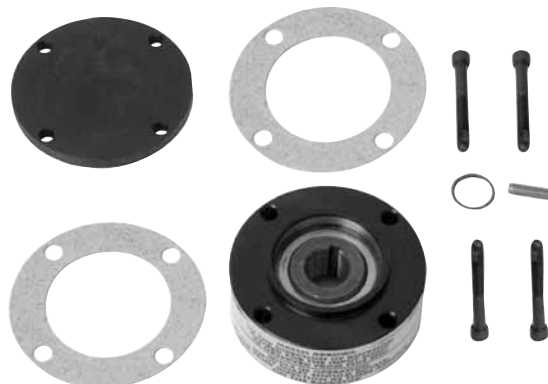
Notes: Browning trough ends are drilled to fit CEMA Standard Troughs. The center holes are drilled to fit Browning screw conveyor drives.

▲ 2" Z" holes in bottom flange only; no holes in top flange.

Options and Accessories Sizes 107-800



Size 107-800



Backstop Kits

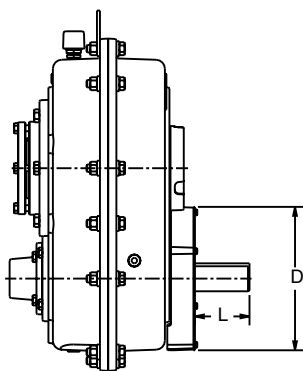
REDUCER SIZE	USE BACKSTOP KIT		DIMENSIONS		WT. LBS.
	PART NO.	RATIOS	D	L	
107	107BSP	ALL	3.000	4.336	2.4
115	115-203BSP		3.438	4.573	3.1
203			3.438	5.100	3.1
207	207BSP		4.750	5.695	7.4
215	215-307BSP		5.000	6.230	8.4
307			5.000	6.770	8.4
315	315BSP		6.000	7.780	16.2
407	407BSP		6.125	6.625	10.0
415	415BSP		6.815	7.500	13.0
507	507BSP		7.625	7.969	15.0
608	608BSP		8.375	9.500	17.0
800	800BSP		9.380	13.290	60.0



Torque Arm Kits

REDUCER SIZE	PART NO.
107	107TAP-H
115	115TAP-H
203	203TAP-H
207	207TAP-H
215	215TAP-H
307	307TAP-H
315	315TAP-H
407	407TAP-HB
415	415TAP-HB
507	507TAP-HB
608	608TAP-HB
800	800TAP-H

Fan Kits

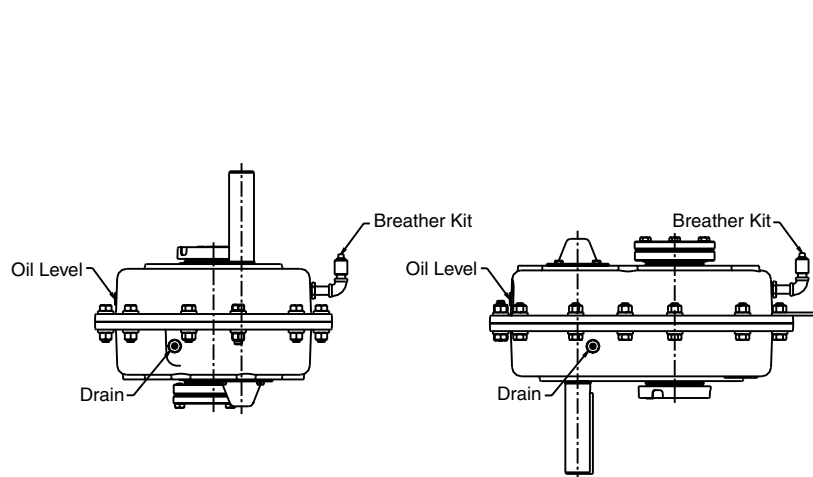


Reducer Size	Fan Kit No.	Dimensions		Wt. Lbs.
		D	L	
307	307FKP	9.5	4.9	4.5
315	315FKP	10.4	5.7	4.9
407	407FKPB	12.66	4.56	6.4
415	415FKPB	14.38	6.92	8.3
507	507FKPB	16.41	6.56	13.2
608	608FKPB	16.41	6.69	13.2
800	800FKP	16.41	9.93	13.2

107-800 SMTP VBK Vertical Breather Kit

When a shaft mount speed reducer is mounted with the shaft vertical, a vertical breather kit is needed.

Shaft Mount
Accessories



107-800 SMTP FBK Filtered Breather Kit

A filtered breather is recommended in applications where abrasive particles may contaminate the gearbox lubricant.



307-800 SMTP PC Pump and Cooler Kit

The pump and cooler kit is required for specific operating conditions noted in the Class I, II, and III selection tables.





Shaft Mount Engineering Section

Input Shaft Overhung Load Capacity	136 - 137
Output Thrust and Overhung Loads	138 - 141
Minimum Shaft Requirements	142
Face Mounting	144 - 145
Lubrication	146 - 149

Load Capacity (Lbs.) Unit Size 107-608

5:1 Ratio Reducers

Output RPM	Reducer Size								
	107	115	203	207	215	307	315	407	415
90	354	442	967	795	1992	2132	1285	1143	1282
100	354	430	938	777	1941	2077	1254	1113	1251
110	354	420	917	760	1890	2027	1224	1088	1221
120	354	410	893	740	1844	1976	1194	1067	1191
130	354	400	877	725	1804	1936	1174	1045	1171
140	354	395	858	710	1768	1896	1148	1027	1146
150	354	385	843	700	1733	1861	1129	1012	1126
160	354	380	828	688	1702	1826	1108	995	1106
170	354	375	818	675	1676	1795	1093	980	1091
180	354	370	803	668	1650	1770	1078	965	1076
190	354	365	793	658	1625	1745	1063	954	1061
200	354	360	783	648	1604	1720	1053	944	1051
210	354	355	773	638	1580	1699	1033	935	1031
220	354	350	763	633	1559	1675	1018	924	1016
230	354	347	758	623	1543	1654	1018	914	1016
240	354	342	748	618	1524	1639	998	904	996
250	354	340	738	613	1508	1619	988	894	986
260	354	335	733	605	1493	1604	983	889	981
270	354	332	723	600	1477	1589	973	879	971
280	354	330	718	593	1462	1569	958	869	956
290	354	327	713	588	1447	1554	958	868	956
300	354	322	708	583	1436	1544	948	859	946
310	354	322	698	578	1422	1529	933	849	931
320	354	317	693	575	1411	1514	933	848	931
330	354	317	688	570	1396	1504	923	838	921
340	354	312	683	565	1386	1494	918	833	916
350	354	312	678	560	1376	1479	916	828	915
360	354	307	673	555	1365	1468	901	823	900
370	354	307	668	555	1355	1458	906	818	905
380	354	305	668	550	1345	1448	896	814	895
390	354	302	663	545	1335	1438	891	808	890
400	354	302	658	540	1329	1428	886	803	885

9:1 Ratio Reducers

Output RPM	Reducer Size						
	107	115	203	207	215	307	315
10	354	992	1212	1717	3172	3555	4004
20	354	992	1212	1717	3172	3555	4004
30	354	992	1212	1717	3172	3545	3856
40	354	992	1212	1717	3121	3077	3165
50	354	992	1212	1682	3021	2655	2656
60	354	992	1212	1627	2838	2324	2264
70	354	992	1212	1496	2695	2054	1941
80	354	989	1212	1372	2577	1823	1670
90	354	967	1212	1265	2476	1638	1716
100	354	950	1212	1173	2385	1497	1675
110	354	931	1212	1161	2309	1578	1635
120	354	896	1212	1136	2242	1543	1600
130	354	863	1212	1116	2181	1508	1574
140	354	836	1212	1094	2125	1483	1544
150	354	808	1212	1074	2074	1458	1519
160	354	783	1212	1059	2029	1437	1498
170	354	761	1212	1044	1987	1412	1474
180	354	739	1212	1029	1951	1397	1456
190	354	721	1212	1014	1911	1377	1438
200	354	701	1212	1001	1880	1362	1421

Overhung Loads

$$OHL = \frac{2TKP}{D}$$

Where:

OHL = Overhung load (pounds)

T = Actual shaft torque (inch-pounds)

D = P.D. of sprocket, sheave, pulley or gear

K = 1.0 for chain drives

1.25 for gear drives

1.25 for gearbelt drives

1.50 for V-belt drives

P = Load position factor

Note: Input overhung loads shown are with center of load at one input shaft diameter from seal. For loads located at other distances, use input load position factor.



SMT-P Input Shaft Overhung



Load Capacity (Lbs.) Unit Size 107-608

15:1 Ratio Reducers

Output RPM	Reducer Size										
	107	115	203	207	215	307	315	407	415	507	608
10	354	992	1212	1717	3172	3555	4004	4472	5505	6729	7040
20	354	992	1212	1717	3172	3553	4004	4346	5505	6601	5009
30	354	992	1212	1717	3094	3358	3935	3860	5498	4873	3754
40	354	992	1212	1641	2853	2866	3775	3484	5172	4301	3545
50	354	992	1212	1551	2649	2495	3499	3040	4830	4024	3480
60	354	965	1212	1456	2492	2204	3255	2877	4573	3809	3425
70	354	938	1212	1379	2365	1963	2976	2747	4367	3638	3380
80	354	891	1212	1317	2263	1758	2743	2639	4196	3493	3340
90	354	848	1212	1264	2176	1587	2720	2548	4050	3372	3305
100	354	811	1212	1210	2100	1592	2649	2468	3924	3267	3275
110	354	778	1212	1141	2033	1552	2586	2400	3814	3177	3250
120	354	748	1212	1138	1977	1517	2531	2338	3716	3096	3225
130	354	721	1212	1110	1921	1487	2480	2280	3625	3021	3205

Shaft Mount
Engineering

25:1 Ratio Reducers

Output RPM	Reducer Size											
	107	115	203	207	215	307	315	407	415	507	608	800
10	354	992	1212	1717	3172	3555	4004	4472	5505	6780	7040	8603
20	354	992	1212	1716	3082	3458	3920	3812	5390	5943	5573	8603
30	354	992	1212	1598	2695	3027	3585	3323	4830	4305	3144	8603
40	354	955	1212	1451	2452	2620	3259	3014	4296	3781	3513	8603
50	354	913	1212	1342	2278	2284	3023	2794	3905	3533	3443	8603
60	354	861	1212	1259	2145	2013	2733	2646	3697	3345	3282	8504
70	354	819	1212	1195	2038	1787	2658	2525	3531	3197	3136	8173
80	354	784	1212	1143	1947	1592	2566	2425	3393	3070	3011	7892

35:1 Ratio Reducers

Output RPM	Reducer Size						
	107	115	203	207	215	307	315
10	354	992	1226	1717	3168	3552	4004
20	354	992	1226	1632	2792	3132	3713
30	354	950	1226	1441	2446	2741	3248
40	354	886	1226	1309	2227	2495	2951
50	354	824	1226	1212	2068	2315	2726

Input Load Position Factors (P)

Reducer Size	Distance in inches from face of the housing																		
	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2
107	1.00	1.13	1.36	1.60	1.84	2.08	2.32	2.55	-	-	-	-	-	-	-	-	-	-	-
115	1.00	1.00	1.16	1.36	1.55	1.75	1.95	2.15	-	-	-	-	-	-	-	-	-	-	-
203	1.00	1.00	1.09	1.27	1.44	1.62	1.79	1.97	2.15	2.32	-	-	-	-	-	-	-	-	-
207	1.00	1.00	1.03	1.19	1.36	1.52	1.69	1.85	2.01	2.18	-	-	-	-	-	-	-	-	-
215	1.00	1.00	1.00	1.04	1.18	1.31	1.45	1.59	1.72	1.86	2.13	-	-	-	-	-	-	-	-
307	1.00	1.00	1.00	1.00	1.11	1.20	1.31	1.44	1.60	1.80	2.05	2.39	2.85	3.55	-	-	-	-	-
315	1.00	1.00	1.00	1.00	1.06	1.13	1.21	1.31	1.42	1.56	1.72	1.92	2.18	2.51	2.97	3.62	-	-	-
407	1.00	1.00	1.00	1.02	1.16	1.30	1.44	1.57	1.72	1.86	1.99	2.11	-	-	-	-	-	-	-
415	1.00	1.00	1.00	1.00	1.03	1.15	1.27	1.39	1.52	1.64	1.76	1.88	2.00	2.12	2.24	2.36	2.47	2.59	-
507	1.00	1.00	1.00	1.00	1.08	1.19	1.30	1.41	1.52	1.63	1.73	1.84	1.95	2.06	2.17	2.27	2.38	2.49	-
608	1.00	1.00	1.00	1.00	1.00	1.05	1.14	1.22	1.30	1.38	1.47	1.55	1.64	1.72	1.80	1.89	1.97	2.05	2.13
800	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.09	1.14	1.20	1.26	1.33	1.40	1.49	1.59	1.70	1.83	1.98	2.15

Note: Input overhung loads shown are with center of load at one input shaft diameter from seal. For loads located at other distances, use input load position factor.



Overhung Load Capacity (Lbs.) Unit Size 107-215

Single Reduction Reducers

Output R.P.M.	107_MTP05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	2040	975	802	535
100	1980	943	802	535
110	1920	908	802	535
120	1870	873	772	535
130	1820	858	757	535
140	1796	828	732	535
150	1772	810	715	535
160	1746	792	698	535
170	1707	778	687	535
180	1669	757	668	535
190	1630	747	658	535
200	1608	733	647	535
210	1585	720	635	535
220	1563	707	623	535
230	1540	693	612	530
240	1523	680	600	520
250	1505	672	593	515
260	1488	658	582	505
270	1470	653	577	500
280	1455	648	572	495
290	1440	640	565	490
300	1425	640	565	490
310	1410	640	565	490
320	1400	640	565	490
330	1390	640	565	490
340	1380	640	565	490
350	1370	640	565	490
360	1358	640	565	490
370	1345	640	565	490
380	1333	640	565	490
390	1320	640	565	490
400	1310	640	565	490

Output R.P.M.	115_MTP05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	3190	1208	1067	925
100	3105	1160	1025	890
110	3020	1123	992	860
120	2953	1083	957	830
130	2885	1048	927	805
140	2818	1025	905	785
150	2750	998	882	765
160	2708	972	858	745
170	2662	953	842	730
180	2616	927	818	710
190	2570	913	807	700
200	2538	895	790	685
210	2505	873	772	670
220	2473	860	760	660
230	2440	850	750	650
240	2418	828	732	635
250	2395	815	720	625
260	2373	810	715	620
270	2350	797	703	610
280	2333	783	692	600
290	2315	770	680	590
300	2298	765	675	585
310	2280	748	662	575
320	2265	743	657	570
330	2250	730	645	560
340	2235	725	640	555
350	2220	717	633	550
360	2203	712	628	545
370	2185	698	617	535
380	2168	690	610	530
390	2150	685	605	525
400	2130	677	598	520

Output R.P.M.	203_MTP05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	3620	1525	1350	1175
100	3620	1458	1292	1125
110	3620	1408	1247	1085
120	3620	1363	1207	1050
130	3560	1315	1165	1015
140	3500	1287	1138	990
150	3440	1247	1103	960
160	3380	1212	1073	935
170	3338	1188	1052	915
180	3295	1162	1028	895
190	3253	1135	1005	875
200	3210	1108	982	855
210	3200	1090	965	840
220	3190	1072	948	825
230	3180	1050	930	810
240	3170	1032	913	795
250	3158	1010	895	780
260	3145	1000	885	770
270	3133	978	867	755
280	3120	965	855	745
290	3105	955	845	735
300	3090	942	833	725
310	3075	928	822	715
320	3060	915	810	705
330	3048	902	798	695
340	3035	888	787	685
350	3023	883	782	680
360	3010	870	770	670
370	2995	865	765	665
380	2980	848	752	655
390	2965	843	747	650
400	2950	830	735	640

Output R.P.M.	207_MTP05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	4910	1907	1688	1470
100	4910	1827	1618	1410
110	4910	1755	1555	1355
120	4910	1692	1498	1305
130	4910	1633	1447	1260
140	4818	1580	1400	1220
150	4725	1535	1360	1185
160	4633	1490	1320	1150
170	4540	1450	1285	1120
180	4473	1413	1252	1090
190	4405	1378	1222	1065
200	4338	1347	1193	1040
210	4270	1323	1172	1020
220	4233	1288	1142	995
230	4195	1262	1118	975
240	4158	1238	1097	955
250	4120	1220	1080	940
260	4088	1197	1058	920
270	4055	1178	1042	905
280	4023	1160	1025	890
290	3990	1145	1010	875
300	3950	1127	993	860
310	3910	1105	975	845
320	3870	1078	952	825
330	3830	1060	935	810
340	3793	1042	918	795
350	3755	1020	900	780
360	3718	1002	883	765
370	3680	980	865	750
380	3647	962	848	735
390	3613	948	837	725
400	3580	930	820	710

Output R.P.M.	215_MTP05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	5400	2718	2412	2105
100	5400	2615	2320	2025
110	5400	2520	2235	1950
120	5288	2427	2153	1880
130	5175	2350	2085	1820
140	5063	2278	2022	1765
150	4950	2215	1965	1715
160	4865	2157	1913	1670
170	4780	2107	1868	1630
180	4695	2053	1822	1590
190	4610	2008	1782	1555
200	4573	1963	1742	1520
210	4535	1923	1707	1490
220	4498	1887	1673	1460
230	4460	1855	1645	1435
240	4428	1815	1610	1405
250	4395	2822	2503	2185
260	4363	2790	2475	2160
270	4330	2758	2447	2135
280	4293	2727	2418	2110
290	4255	2700	2395	2090
300	4218	2673	2372	2070
310	4180	2650	2350	2050
320	4147	2623	2327	2030
330	4113	2597	2303	2010
340	4080	2578	2287	1995
350	4047	2552	2263	1975
360	4013	2533	2247	1960
370	3980	2515	2230	1945
380	3947	2493	2212	1930
390	3913	2475	2195	1915
400	3880	2457	2178	1900

Notes: Above thrust and overhung loads are not applicable for combined thrust and overhung loads; refer such applications to Application Engineering (1 800 626 2093).

Interpolate for loads at other distances from the housing surface.

Overhung load must be applied on the same side as the bushing.

Overhung Load Capacity (Lbs.) Unit Size 307-415

Single Reduction Reducers

Output R.P.M.	307_MTP05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	8350	3843	3412	2980
100	8332	3687	3273	2860
110	8121	3538	3142	2745
120	7909	3412	3028	2645
130	7698	3295	2925	2555
140	7487	3192	2833	2475
150	7275	3093	2747	2400
160	7064	3012	2673	2335
170	6853	2927	2598	2270
180	6641	2855	2535	2215
190	6430	2783	2472	2160
200	6219	2720	2415	2110
210	6007	4442	3943	3445
220	5796	4383	3892	3400
230	5585	4328	3842	3355
240	5373	4267	3788	3310
250	5162	4217	3743	3270
260	4951	4172	3703	3235
270	4739	4118	3657	3195
280	4528	4082	3623	3165
290	4317	4037	3583	3130
300	4106	4000	3550	3100
310	3894	3952	3508	3065
320	3683	3920	3480	3040
330	3472	3880	3445	3010
340	3260	3848	3417	2985
350	3049	3817	3388	2960
360	2838	3785	3360	2935
370	2626	3753	3332	2910
380	2415	3722	3303	2885
390	2204	3695	3280	2865
400	1992	3663	3252	2840

Output R.P.M.	315_MTP05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	7019	5493	4887	4280
100	6937	5242	4663	4085
110	6844	5025	4470	3915
120	6734	4832	4298	3765
130	6627	4660	4145	3630
140	6521	4507	4008	3510
150	6414	4363	3882	3400
160	6308	4237	3768	3300
170	6201	4115	3660	3205
180	6095	4003	3562	3120
190	5988	3910	3475	3040
200	5881	3822	3393	2965
210	5775	3738	3317	2895
220	5668	3663	3247	2830
230	5562	3597	3183	2770
240	5455	3523	3117	2710
250	5455	3428	3032	2635
260	5455	3327	2943	2560
270	5455	3245	2870	2495
280	5455	3160	2795	2430
290	5455	3075	2720	2365
300	5455	2995	2650	2305
310	5455	2923	2587	2250
320	5455	2852	2523	2195
330	5455	2788	2467	2145
340	5455	2722	2408	2095
350	5455	2658	2352	2045
360	5455	2600	2300	2000
370	5455	2542	2248	1955
380	5455	2480	2195	1910
390	5455	2430	2150	1870
400	5455	2377	2103	1830

Output R.P.M.	407SMT05B			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	5557	6638	5897	5155
100	5385	6638	5897	5155
110	5238	6490	5765	5040
120	5105	6320	5615	4910
130	4985	6175	5485	4795
140	4930	6040	5365	4690
150	4875	5918	5257	4595
160	4820	5802	5153	4505
170	4765	5698	5062	4425
180	4710	5600	4975	4350
190	4655	5510	4895	4280
200	4600	5428	4822	4215
210	4545	5352	4753	4155
220	4490	5272	4683	4095
230	4435	5200	4620	4040
240	4380	5137	4563	3990
250	4325	5073	4507	3940
260	4270	5015	4455	3895
270	4270	4957	4403	3850
280	4270	4907	4358	3810
290	4270	4853	4312	3770
300	4270	4803	4267	3730
310	4270	4758	4227	3695
320	4270	4713	4187	3660
330	4270	4668	4147	3625
340	4270	4628	4112	3595
350	4270	4592	4078	3565
360	4270	4552	4043	3535
370	4270	4512	4008	3505
380	4270	4475	3975	3475
390	4270	4443	3947	3450
400	4270	4412	3918	3425

Output R.P.M.	415SMT05B			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	12583	13970	12480	10990
100	12479	13400	11970	10540
110	12375	12895	11520	10145
120	12270	12452	11123	9795
130	12166	12050	10765	9480
140	12062	11688	10442	9195
150	11958	11363	10152	8940
160	11853	11065	9885	8705
170	11749	10785	9635	8485
180	11645	10532	9408	8285
190	11541	10297	9198	8100
200	11437	10080	9005	7930
210	11332	9877	8823	7770
220	11228	9678	8647	7615
230	11124	9502	8488	7475
240	11020	9330	8335	7340
250	10915	9172	8193	7215
260	10811	9018	8057	7095
270	10707	8873	7927	6980
280	10603	8738	7807	6875
290	10498	8603	7687	6770
300	10394	8485	7580	6675
310	10290	8363	7472	6580
320	10186	8250	7370	6490
330	10082	8142	7273	6405
340	9977	8042	7183	6325
350	9873	7938	7092	6245
360	9769	7843	7007	6170
370	9665	7748	6922	6095
380	9560	7658	6842	6025
390	9456	7568	6762	5955
400	9352	7487	6688	5890

Notes: Above thrust and overhung loads are not applicable for combined thrust and overhung loads; refer such applications to Application Engineering (1 800 626 2093).

Interpolate for loads at other distances from the housing surface.

Overhung load must be applied on the same side as the bushing.



Overhung Load Capacity (Lbs.) Unit Size 107-215

Double Reduction Reducers

Reducer Size	107_MTP09 107_MTP15 107_MTP25 107_MTP35			
	Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface	
4			8	12
10	2040	1604	802	535
20	2040	1597	802	535
30	2040	1387	802	535
40	2040	1253	802	535
50	2040	1163	802	535
60	2020	1092	802	535
70	1890	1033	802	535
80	1780	988	802	535
90	1670	940	802	535
100	1590	908	802	535
110	1510	873	772	535
120	1475	850	750	535
130	1440	832	733	535
140	1405	805	710	535
150	1370	783	692	535
160	1348	765	675	535
170	1325	752	663	535
180	1303	730	645	535
190	1280	720	635	535
200	1260	707	623	535

Reducer Size	115_MTP09 115_MTP15 115_MTP25 115_MTP35			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	3190	2677	1964	1309
20	3190	2127	1878	1309
30	3190	1862	1643	1309
40	3190	1683	1487	1290
50	3190	1558	1377	1195
60	3050	1460	1290	1120
70	2910	1383	1222	1060
80	2770	1325	1170	1015
90	2630	1267	1118	970
100	2553	1218	1077	935
110	2475	1182	1043	905
120	2398	1150	1015	880
130	2320	1115	985	855
140	2273	1083	957	830
150	2225	1057	933	810
160	2178	1030	910	790
170	2130	1012	893	775
180	2097	993	877	760
190	2063	972	858	745
200	2030	953	842	730

Reducer Size	203_MTP09 203_MTP15 203_MTP25 203_MTP35			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
		Output R.P.M.		
10	3620	3408	2826	1884
20	3620	2695	2385	1884
30	3620	2328	2062	1795
40	3620	2103	1862	1620
50	3620	1942	1718	1495
60	3425	1808	1602	1395
70	3230	1722	1523	1325
80	3035	1642	1453	1265
90	2840	1570	1390	1210
100	2789	1520	1345	1170
110	2738	1458	1292	1125
120	2687	1413	1252	1090
130	2636	1368	1212	1055
140	2583	1337	1183	1030
150	2517	1297	1148	1000
160	2450	1265	1120	975
170	2383	1238	1097	955
180	2317	1215	1075	935
190	2250	1188	1052	915
200	2200	1162	1028	895

Reducer Size	207_MTP09 207_MTP15 207_MTP25 207_MTP35				
	Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
			4	8	12
10	4910	4528	3910	2607	
20	4910	3545	3140	2607	
30	4910	3052	2703	2355	
40	4910	2733	2422	2110	
50	4910	2508	2222	1935	
60	4910	2338	2072	1805	
70	4673	2195	1945	1695	
80	4435	2087	1848	1610	
90	4198	1997	1768	1540	
100	3960	1912	1693	1475	
110	3790	1840	1630	1420	
120	3620	1782	1578	1375	
130	3450	1723	1527	1330	
140	3280	1670	1480	1290	
150	3225	1625	1440	1255	
160	3170	1588	1407	1225	
170	3115	1548	1372	1195	
180	3060	1508	1337	1165	
190	3010	1477	1308	1140	
200	2960	1445	1280	1115	

Reducer Size	215_MTP09 215_MTP15 215_MTP25 215_MTP35				
	Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
			4	8	12
10	5400	6127	5433	4562	
20	5400	4793	4252	3710	
30	5400	4120	3655	3190	
40	5400	3693	3277	2860	
50	5055	3392	3008	2625	
60	4710	3158	2802	2445	
70	4365	2978	2642	2305	
80	4020	2822	2503	2185	
90	3900	2700	2395	2090	
100	3780	2592	2298	2005	
110	3660	2493	2212	1930	
120	3540	2408	2137	1865	
130	3470	2332	2068	1805	
140	3400	2268	2012	1755	
150	3330	2202	1953	1705	
160	3260	2143	1902	1660	
170	3198	2093	1857	1620	
180	3135	2048	1817	1585	
190	3073	2003	1777	1550	
200	3010	1958	1737	1515	

Notes: Above thrust and overhung loads are not applicable for combined thrust and overhung loads; refer such applications to Application Engineering (1 800 626 2093).

Interpolate for loads at other distances from the housing surface.

Overhung load must be applied on the same side as the bushing.



Overhung Load Capacity (Lbs.) Unit Size 307-608

Double Reduction Reducers

Reducer Size	307_MTP09 307_MTP15 307_MTP25 307_MTP35			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	8350	9072	8053	7035
20	8350	7080	6285	5490
30	8350	6100	5415	4730
40	8350	5480	4865	4250
50	8350	5035	4470	3905
60	8350	4693	4167	3640
70	8350	4423	3927	3430
80	8350	4203	3732	3260
90	8350	4018	3567	3115
100	8332	3862	3428	2995
110	8121	3713	3297	2880
120	7909	3587	3183	2780
130	7698	3470	3080	2690
140	7487	3367	2988	2610
150	7275	3268	2902	2535
160	7064	3183	2827	2470
170	6853	3107	2758	2410
180	6641	3035	2695	2355
190	6430	2972	2638	2305
200	6219	2908	2582	2255

Reducer Size	315_MTP09 315_MTP15 315_MTP25 315_MTP35			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	8840	13882	12348	10815
20	8840	10865	9665	8465
30	8840	9383	8347	7310
40	8840	8447	7513	6580
50	7410	7780	6920	6060
60	6750	7267	6463	5660
70	6220	6853	6097	5340
80	5820	6515	5795	5075
90	5430	6223	5537	4850
100	5210	5983	5322	4660
110	5070	5763	5127	4490
120	4940	5570	4955	4340
130	4820	5403	4807	4210
140	4720	5250	4670	4090
150	4593	5110	4545	3980
160	4476	4980	4430	3880
170	4360	4858	4322	3785
180	4243	4750	4225	3700
190	4126	4655	4140	3625
200	4009	4557	4053	3550

Reducer Size	407SMTP15B 407SMTP25B			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	9000	11072	9838	8605
20	8298	8022	7128	6235
30	6586	6518	5792	5065
40	4874	5570	4950	4330
50	4344	4900	4355	3810
60	3813	4392	3903	3415
70	3283	3995	3550	3105
80	2931	4017	3566	3115
90	2579	4038	3582	3125
100	2226	4060	3598	3135
110	1874	4082	3613	3145
120	1760	4103	3629	3155
130	1645	4125	3645	3165

Shaft Mount Engineering

Reducer Size	415SMTP15B 415SMTP25B			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	12200	13575	12075	10575
20	12200	9742	8613	7485
30	12200	7462	6598	5735
40	11700	6055	5355	4655
50	10600	5477	4843	4210
60	9777	5185	4585	3985
70	8953	4948	4377	3805
80	8130	4755	4205	3655
90	7675	4593	4062	3530
100	7220	4450	3935	3420
110	6960	4317	3818	3320
120	6700	4208	3722	3235
130	6440	4110	3635	3160

Reducer Size	507SMTP15B 507SMTP25B			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	12900	16922	15108	13295
20	12900	12825	11450	10075
30	12900	10830	9670	8510
40	12900	9853	8797	7740
50	12900	9217	8228	7240
60	12300	8725	7790	6855
70	11500	8332	7438	6545
80	10800	7998	7142	6285
90	10100	7727	6898	6070
100	10000	7483	6682	5880
110	9950	7275	6495	5715
120	9900	7082	6323	5565
130	9820	6918	6177	5435

Reducer Size	608SMTP15B 608SMTP25B			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	22000	30878	27742	24605
20	22000	23938	21507	19075
30	21600	20557	18468	16380
40	19100	18542	16658	14775
50	17600	17343	15582	13820
60	16400	16422	14753	13085
70	15450	15673	14082	12490
80	14500	15060	13530	12000
90	13116	14538	13062	11585
100	11909	14088	12657	11225
110	10703	13693	12302	10910
120	9497	13332	11978	10625
130	8291	13022	11698	10375

Reducer Size	800SMTP25			
Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
10	30360	56746	55828	54910
20	30360	43503	42799	42095
30	29808	37012	36414	35815
40	26358	32916	32383	31850
50	24288	30005	29520	29035
60	22632	27790	27340	26890
70	21321	26023	25602	25180
80	20010	24560	24163	23765

Notes: Above thrust and overhung loads are not applicable for combined thrust and overhung loads; refer such applications to Application Engineering (1 800 626 2093).

Interpolate for loads at other distances from the housing surface.

Overhung load must be applied on the same side as the bushing.

Length Requirements

**Front Mounting
Configuration with
Stabilizer Ring**

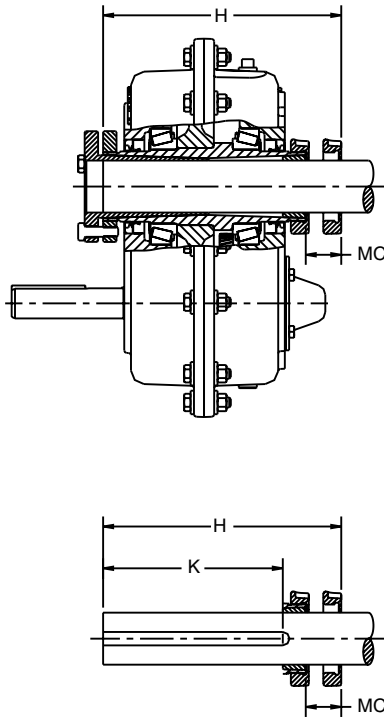


Fig. 1

Unit Size	Endcap Clearance	Minimum Shaft Mounting Length	Minimum Key Connection Length
	MC	H	K*
107	0.97	8.06	3.69
115	1.03	8.59	3.88
203	1.15	9.78	4.32
207	1.21	10.16	4.81
215	1.31	11.36	5.25
307	1.44	13.04	6.31
315	1.69	15.20	7.38
407	-	-	-
415	-	-	-
507	-	-	-
608	-	-	-
800	-	-	-

**Rear Mounting
Configuration with
Stabilizer Ring**

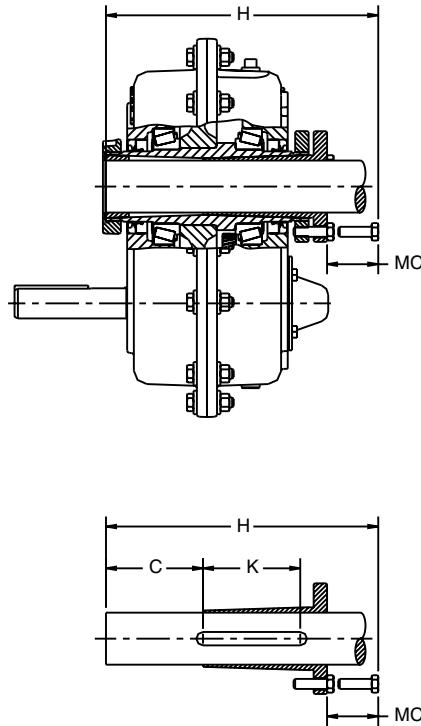


Fig. 2

Unit Size	Bolt Clearance	Minimum Shaft Mounting Length	Minimum Key Connection Length	Remaining Shaft for Stabilizer Ring
	MC	H	K*	C
107	1.75	9.53	3.69	3.40
115	1.88	10.13	3.88	3.62
203	1.88	11.19	4.32	4.19
207	1.88	11.52	4.81	4.01
215	1.88	12.62	5.25	4.61
307	2.25	14.64	6.31	5.01
315	2.75	17.07	7.38	5.76
407	2.75	16.42	6.91	5.54
415	3.25	19.76	8.53	6.51
507	3.75	21.27	9.66	6.27
608	4.25	25.93	10.15	9.68
800	4.50	28.62	10.73	11.12

**Rear Mounting
Configuration without
Stabilizer Ring**

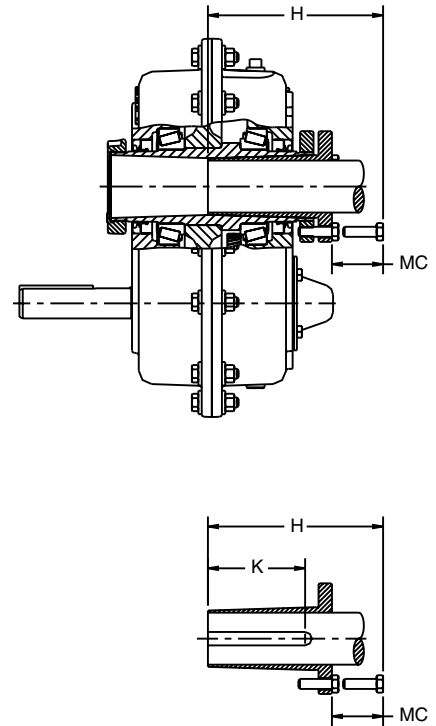


Fig. 3

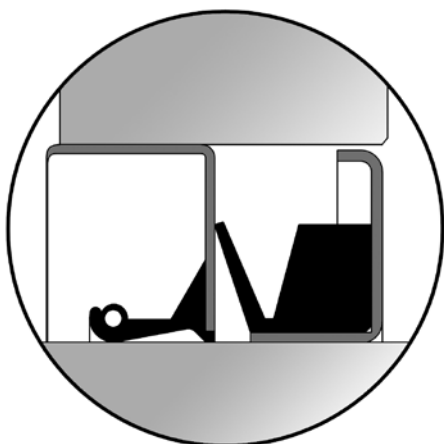
Unit Size	Bolt Clearance	Minimum Shaft Mounting Length	Minimum Key Connection Length
	MC	H	K*
107	1.75	6.12	3.69
115	1.88	6.50	3.88
203	1.88	7.00	4.32
207	1.88	7.50	4.81
215	1.88	8.00	5.25
307	2.25	9.63	6.31
315	2.75	11.31	7.38
407	2.75	10.88	6.91
415	3.25	13.25	8.53
507	3.75	15.00	9.66
608	4.25	16.25	10.15
800	4.50	17.50	10.73

*K — Minimum key connection length is measured from the end of the driven shaft to the end of the usable keyseat.

Note: 407-800 mounting systems available in rear configuration only. Contact Application Engineering (1 800 626 2093) for front configuration mounting systems on these sizes.



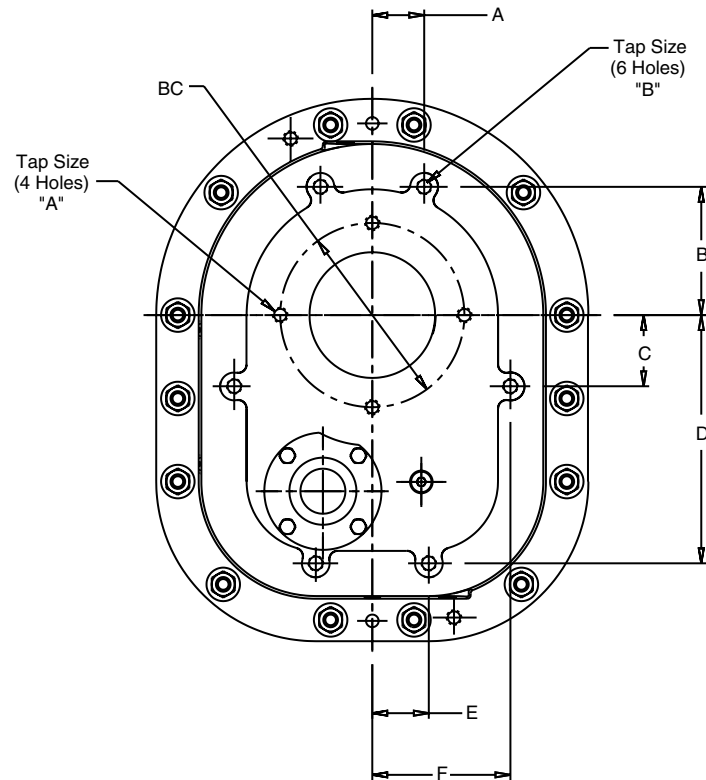
Don't Let An Ounce of Dirt Stop 1,000 Tons of Rock!!



Performance is Our Pledge Browning Patented Barrier Seal System

Combines a v-ring face seal, grease filled labyrinth and rotating outer flinger to provide triple protection to reduce contamination and oil seal damage. Standard on all shafts.

Face Mounting Drill and Tap Instructions Unit Sizes 107-315



"A" Pre-Machined Face Mount Holes (Machined at Factory)

Reducer Size	Holes	Tap Size	Tap Depth	Drill Depth	BC
107	4	5/16-18	0.63	0.75	4.125
115		3/8-16	0.88	1.13	5.060
203		7/16-14	0.88	1.13	5.500
207		1/2-13	1.06	1.31	6.375
215			0.81	1.13	6.875
307		5/8-11	1.16	1.44	8.375
315			1.25	1.50	9.125

"B" Optional Face Mount Holes (Not Machined)

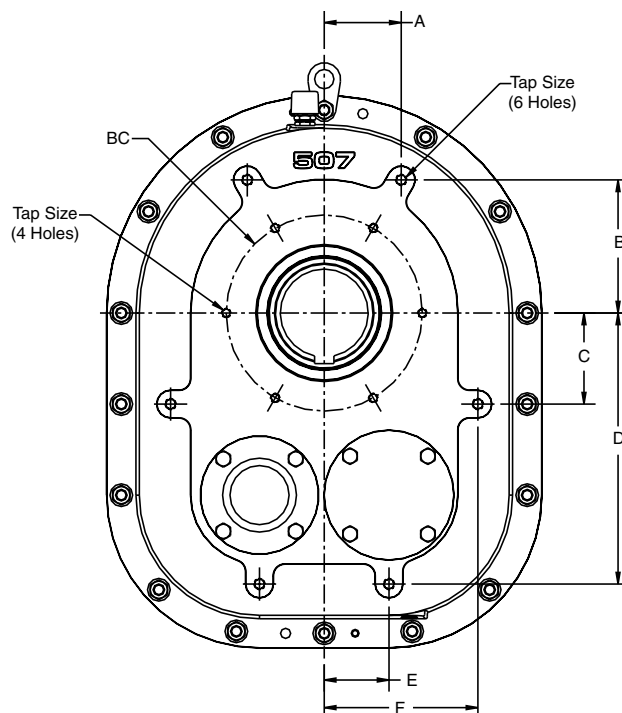
Reducer Size	A	B	C	D	E	F
107	1.14	2.81	1.59	5.59	1.19	3.00
115	1.27	3.13	1.53	6.41	1.28	3.01
203	1.55	3.83	2.13	7.41	1.69	4.13
207	1.87	4.64	2.66	8.94	1.97	5.00
215	2.15	5.33	2.63	10.38	2.25	5.75
307	2.44	6.02	3.75	11.83	2.63	6.50
315	2.53	6.25	1.81	13.21	2.75	6.75

Reducer Size	Holes	Tap Size	Tap Depth	Drill Depth
107	6	5/16-18	0.56	0.75
115		3/8-16	0.69	0.88
203		7/16-14	0.69	0.88
207			0.81	1.00
215		1/2-13	0.81	1.00
307		5/8-11	1.00	1.19
315				

Notes: No extra charge for drilled and tapped holes. Please specify at time of order.

Full diameter of drill must not exceed specified drill depth because point of drill may break through housing and contaminate the oil with metal chips.

Face Mounting Drill and Tap Instructions Unit Sizes 407-800



"A" Face Mount Holes (Machined at Factory)

Reducer Size	Holes	Tap Size	Tap Depth	Drill Depth	BC
407	6	5/8-11	1.06	1.37	10.125
415			1.12	1.44	12.250
507			1.31	1.63	12.688
608	8	3/4-10	1.56	1.88	15.750
800		7/8-9	2.00	2.25	18.250

"B" Face Mount Holes (Not Machined)

Reducer Size	A	B	C	D	E	F
407	7.48	2.00	4.63	13.86	3.13	7.75
415	8.42	2.25	5.19	15.47	3.63	8.72
507	4.98	8.61	5.89	17.53	4.19	9.94
608	7.5	7.50	6.81	20.00	4.25	10.59
800	9.75	8.13	6.50	20.78	10.41	12.75

Reducer Size	Holes	Tap Size	Tap Depth	Drill Depth
407	6	3/4-10	1.00	1.19
415				
507				
608				
800	8	1-8	1.56	1.88

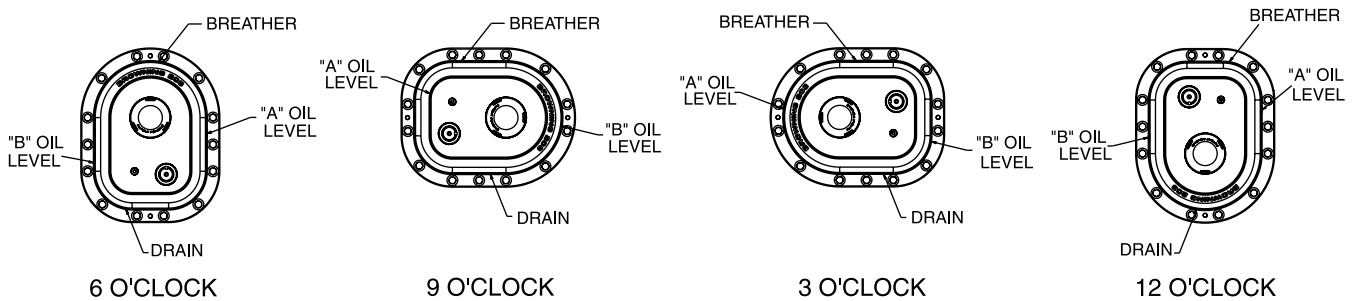
Notes: No extra charge for drilled and tapped holes. Please specify at time of order.

Full diameter of drill must not exceed specified drill depth because point of drill may break through housing and contaminate the oil with metal chips.

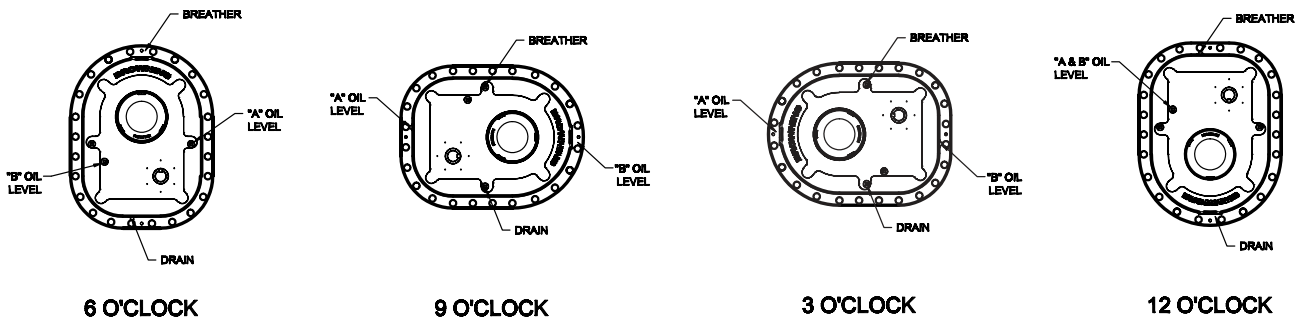
Lubrication Sizes 107-800

The drawing below shows the breather, magnetic drain and oil level plug locations for the standard mounting positions. The breather is installed in the fill hole in the top and the magnetic drain plug is installed in the bottom of the reducer in its relative position. Use oil level "A" for speeds slower than those shown in the table below. Use oil level "B" for speeds faster than those shown in the table below.

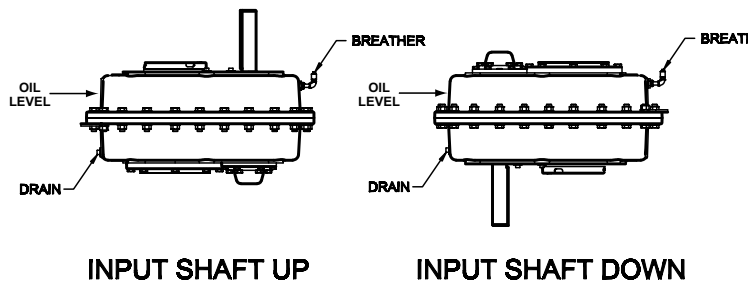
Refer to mounting positions and lubrication tables shown below for proper oil levels on 107-608 sizes.



Refer to mounting positions and lubrication tables shown below for proper oil levels on 800SMTP.



Vertical shaft mounting positions



Lubrication Sizes 107-800

Shaft mount reducers require different amounts of oil in the various mounting positions. For the convenience of having enough oil at the installation site, the table below shows the approximate amount of oil for each mounting position.

Refer to mounting positions and lubrication tables shown below for proper oil levels.

Use Oil Level "B" For Speeds Faster Than Those Shown Below

Reducer Size	Output rpm for Reducer Ratios				
	5:1	9:1	15:1	25:1	35:1
107	400	184	120	70	40
115	382	173	120	70	40
203	326	128	113	70	40
207	275	112	99	70	40
215	236	97	85	70	40
307	204	90	79	70	40
315	202	85	62	70	40
407	176	-	63	55	-
415	156	-	53	46	-
507	-	-	47	41	-
608	-	-	46	40	-
800	-	-	-	40	-

Approximate Oil Capacities in Quarts

Output Orientation	Horizontal															
Ratio	5:1								9,15,25,35:1							
Oil Level	A				B				A				B			
Mounting Position	3	6	9	12	3	6	9	12	3	6	9	12	3	6	9	12
107	2.0	2.0	2.5	2.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0	2.0	1.0	1.0	1.5	1.5
115	3.0	3.0	3.0	3.0	1.5	2.0	2.0	2.0	3.0	3.0	3.0	3.0	1.5	2.0	2.0	2.0
203	5.0	5.0	6.0	5.0	2.5	3.0	3.5	3.5	4.5	4.5	5.5	5.0	2.5	3.0	3.5	3.5
207	6.5	7.0	7.5	7.0	3.0	4.0	4.5	4.5	6.0	6.5	7.5	7.0	3.0	4.0	4.5	4.5
215	9.0	10.0	11.5	10.5	4.0	5.5	7.0	6.0	8.0	9.0	11.0	10.0	4.0	5.0	7.0	6.0
307	13.0	13.5	15.5	14.0	7.0	8.5	10.0	9.5	12.0	12.5	15.0	14.0	7.0	8.0	10.0	9.5
315	17.0	19.5	19.5	17.5	10.0	12.5	13.0	11.0	15.5	18.0	19.0	17.0	9.5	11.5	13.0	11.0
407	19.0	20.1	23.5	19.8	8.4	12.3	13.5	12.7	15.9	17.1	21.7	19.3	7.8	10.3	13.8	12.7
415	32.5	34.0	40.0	34.8	15.3	20.9	23.8	22.5	27.8	29.7	37.5	33.8	14.2	18.0	24.3	22.5
507	-	-	-	-	-	-	-	-	38.3	40.3	52.9	49.4	19.7	23.5	34.8	32.9
608	-	-	-	-	-	-	-	-	55.0	61.5	65.4	68.2	40.3	36.8	50.4	43.9
800	-	-	-	-	-	-	-	-	94.6	90.0	91.0	-	74.3	-	69.5	-

Output Orientation	Vertical			
Ratio	5:1		9,15,25,35:1	
Mounting Position	Input Shaft Up	Input Shaft Down	Input Shaft Up	Input Shaft Down
107	2.5	2.5	2.5	2.5
115	3.5	4.0	3.5	4.0
203	6.0	7.0	6.0	7.0
207	8.5	9.0	8.5	9.0
215	13.0	12.5	12.0	12.0
307	18.5	20.0	17.5	19.0
315	24.0	26.0	22.5	25.0
407	26.5	29.0	24.0	26.5
415	46.3	50.2	42.5	46.3
507	-	-	60.8	65.8
608	-	-	87.9	93.9
800	-	-	144.3	145.3

Notes: Contact Application Engineering (1 800 626 2093) for vertical shaft mounting lubrication instructions.
 SMTP, SMFP, HMTF and CMTP reducers are shipped without oil. Gearboxes must be filled to the proper level before operation.
 Synthetic or mineral oil may be used in SMTP, SMFP, HMTF and CMTP shaft mount reducers.
 For complete lubrication instructions, refer to the installation manual provided with the unit.

Reference page 148 for additional lubrication specifications.

Lubrication Sizes 107-800

NOTICE: Petroleum-based and synthetic lubricants which contain anti-wear/extreme pressure additives must not be used in units with internal backstops. These additives decrease the backstop's ability to prevent reverse rotation and will result in backstop failure.

Note: Reducers operating more than 10° from standard position should have a stand pipe or sight glass installed and marked at proper oil level in order to monitor oil level while in operating position. Contact Application Engineering (1 800 626 2093) Department for assistance in selecting and installing required material.

Relubrication

The following are some general recommendations regarding relubrication. Your experience in your specific application is the best determination of relubrication intervals.

Petroleum-based lubricants

For normal operating conditions, oil should be changed every 2,500 hours or six months, whichever occurs first. If temperatures vary by season, the oil should be changed to suit the ambient operating temperature.

Synthetic Lubricants

Some type of synthetic lubricants can be used in shaft mount reducers. These lubricants can extend oil change intervals to as much as 8,000 to 10,000 hours based on operating temperatures and lubricant contamination. If temperatures vary by season, the oil should be changed to suit the ambient operating temperature.

Lubrication Sizes 107-800

AGMA Oil Viscosity Grades for Ambient Operating Temperature between 14 deg F and 50 deg F												
Output RPM	Reducer Size											
	107_MTP	115_MTP	203_MTP	207_MTP	215_MTP	307_MTP	315_MTP	407SMTP	415SMTP	507SMTP	608SMTP	800SMTP
5-20	5	5	5	5	5	5	5	5	5	5	5	5
21-40	5	5	5	5	5	5	5	5	5	5	5	5
41-60	5	5	5	5	5	5	5	5	5	5	5	5
61-80	5	5	5	5	5	5	5	5	5	5	5	5
81-100	5	5	5	5	5	5	5	5	5	5	5	
101-120	5	5	5	5	5	5	5	5	5	5	5	
121-140	5	5	5	5	5	5	5	5	5			
141-160	5	5	5	5	5	5	5	5	5			
161-180	5	5	5	5	5	5	5	5	5			
181-200	5	5	5	5	5	5	5	5	5			
201-220	5	5	5	5	5	5	5	5	4			
221-240	5	5	5	5	5	5	5	4	4			
241-260	5	5	5	5	5	5	5	4	4			
261-280	5	5	5	5	5	5	4	4	4			
281-300	5	5	5	5	5	4	4	4	4			
301-320	5	5	5	5	4	4	4	4	4			
321-340	5	5	5	5	4	4	4	4	4			
341-360	5	5	5	5	4	4	4	4	4			
361-380	5	5	5	4	4	4	4	4	4			
381-400	5	5	5	4	4	4	4	4	4			

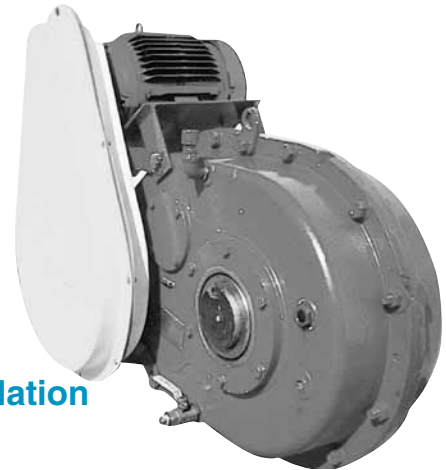
AGMA Oil Viscosity Grades for Ambient Operating Temperature between 50 deg F and 95 deg F												
Output RPM	Reducer Size											
	107_MTP	115_MTP	203_MTP	207_MTP	215_MTP	307_MTP	315_MTP	407SMTP	415SMTP	507SMTP	608SMTP	800SMTP
5-20	6	6	6	6	6	6	6	6	6	6	6	6
21-40	6	6	6	6	6	6	6	6	6	6	6	6
41-60	6	6	6	6	6	6	6	6	6	6	6	6
61-80	6	6	6	6	6	6	6	6	6	6	6	6
81-100	6	6	6	6	6	6	6	6	6	6	6	
101-120	6	6	6	6	6	6	6	6	6	6	6	
121-140	6	6	6	6	6	6	6	6	6			
141-160	6	6	6	6	6	6	6	6	6			
161-180	6	6	6	6	6	6	6	6	6			
181-200	6	6	6	6	6	6	6	6	5			
201-220	6	6	6	6	6	6	6	5	5			
221-240	6	6	6	6	6	6	5	5	5			
241-260	6	6	6	6	6	6	5	5	5			
261-280	6	6	6	6	6	5	5	5	5			
281-300	6	6	6	6	6	5	5	5	5			
301-320	6	6	6	6	5	5	5	5	5			
321-340	6	6	6	6	5	5	5	5	5			
341-360	6	6	6	6	5	5	5	5	5			
361-380	6	6	6	5	5	5	5	5	5			
381-400	6	6	6	5	5	5	5	5	5			

Features and Ratings

Water treatment maintenance superintendents, design engineers and consultants agree...

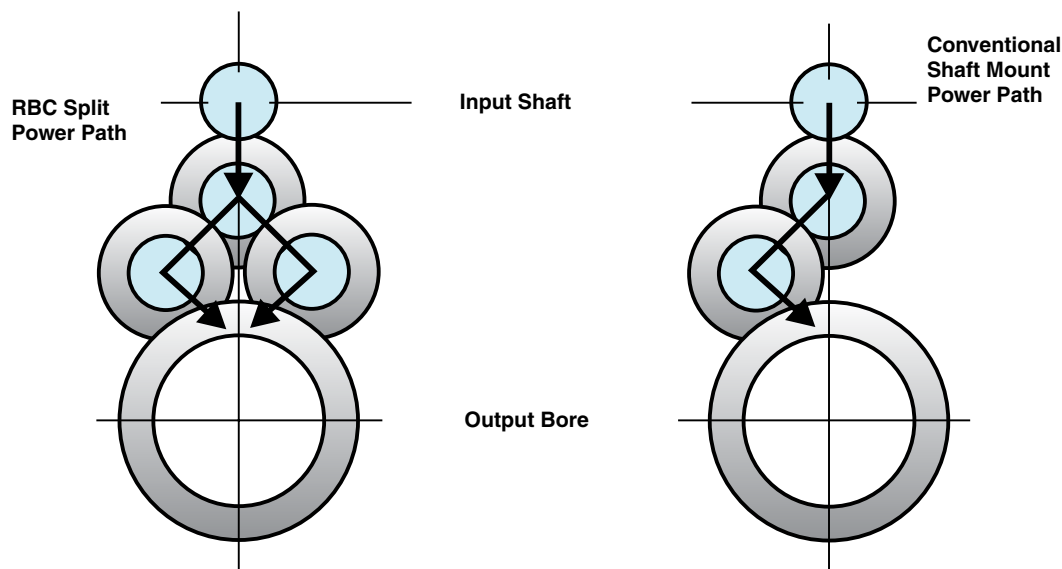
Browning products meet all your needs for rotating biological contactor drives.

Specify the Browning solution on your next RBC installation or retrofit.



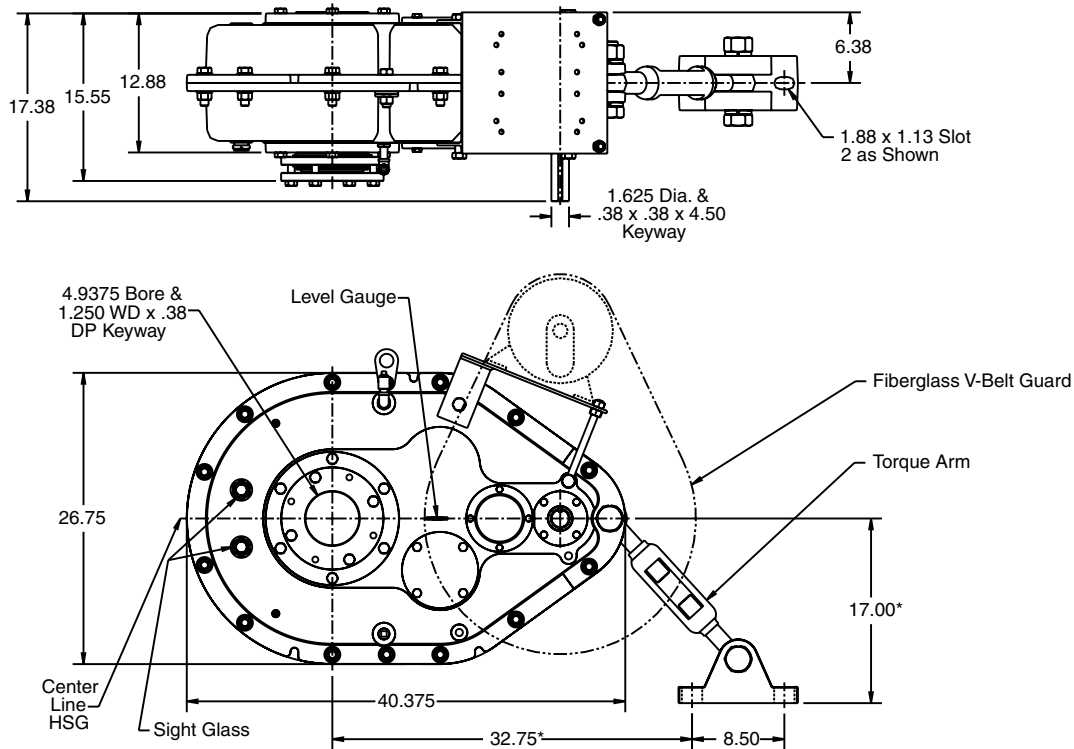
Superior RBC Drive Solutions

Built Rugged and Dependable for Minimal Maintenance and Downtime



- **Split Power Path Design**
Provides twice the tooth engagement when compared to conventional drives
- **Leak Free Operation**
Plunge ground shafts with dual lip oil seals
- **High Quality Bearings**
100,000 hour B-10 life at 5 hp Class II service
- **Generous Shaft Diameters**
Support overhung loads generated by V-belt drive assembly
- **Compact design and drop-in features allow for quick replacement of problem drives**
Universal housings allow for left or right-hand installations
Reducer, belt guard, torque arm, belt drive and motor are to be ordered separately

Standard Unit



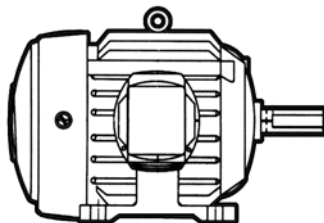
Drive Assembly

- **Tapered Bushed Unit**
P/N 415SMT148
includes 4 15/16" tapered bushing and standard motor mount.
- **Straight Bore Unit**
P/N 415SMF148
Includes Std. Motor Mount
Motor mount will accept...
184T, 213T & 254T* frame motors and a V-belt drive CD of 14 to 20"
- **Fiberglass V-Belt Guard**
P/N BG415-RBC
- **Torque Arm**
P/N TA415-RBC/1

* If torque arm arrangement is longer than 32.75" in the horizontal, or smaller than 17.00" in the vertical dimension, contact Application Engineering (1 800 626 2093).

• Hostile duty totally enclosed fan cooled motors

Designed for wastewater treatment plant operation



- High efficiency EPA '92 certified
- Cast iron frames
- Hostile-duty paint
- Stainless steel nameplates

Browning RBC Drive Ratings							
Motor hp/rpm	Part Number	Motor Frame	AGMA Service Factor	V-Belt Drive Ratio	Gear Drive Ratio	Final Output Speed	Final Output Torque Rating
5/1150	H5E3D	215T	Class II	5.2:1	148:1	1.5 RPM	199,600 in./lbs.
7.5/1150	H7E3D	254T	Class I	5.2:1	148:1	1.5 RPM	297,400 in./lbs.

STANDARD TERMS AND CONDITIONS OF SALE (September 2, 2009)

These Terms and Conditions, the attendant quotation or acknowledgment and all documents incorporated by specific reference therein, will be the complete and exclusive statement of the terms of the agreement governing the sale of goods ("Goods") by Emerson Power Transmission Corporation and its divisions and subsidiaries ("Seller") to Customer ("Buyer"). Buyer's acceptance of the Goods will manifest Buyer's assent to these Terms and Conditions. If these Terms and Conditions differ in any way from the terms and conditions of Buyer's order, or other documentation, this document will be construed as a counteroffer and will not be deemed an acceptance of Buyer's terms and conditions which conflict herewith.

1. **PRICES:** Unless otherwise specified in writing by Seller, Seller's price for the goods shall remain in effect for thirty (30) days after the date of Seller's quotation or acknowledgment of Buyer's order for the Goods, whichever occurs first, provided an unconditional, complete authorization for the immediate shipment of the Goods is received and accepted by Seller within such time period. If such authorization is not received by Seller within such thirty (30) day period, Seller shall have the right to change the price for the Good to Seller's price for the Goods at the time of shipment.
2. **TAXES:** Any tax or governmental charge or increase in same hereafter becoming effective increasing the cost to Seller of producing, selling or delivering the Goods or of procuring material used therein, and any tax now in effect or increase in same payable by the Seller because of the manufacture, sale or delivery of the Goods, may at Seller's option, be added to the price.
3. **TERMS OF PAYMENT:** Subject to the approval of Seller's Credit Department, terms are net thirty (30) days from date of Seller's invoice in U.S. currency. If any payment owed to Seller is not paid when due, it shall bear interest, at a rate to be determined by Seller, which shall not exceed the maximum rate permitted by law, from the date on which it is due until it is paid. Seller shall have the right, among other remedies, either to terminate the Agreement or to suspend further performance under this and/or other agreements with Buyer in the event Buyer fails to make any payment when due. Buyer shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts.
4. **SHIPMENT AND DELIVERY:** Shipments are made F.O.B. Seller's shipping point. Any claims for shortages or damages suffered in transit shall be submitted by the Buyer directly to the carrier. While Seller will use all reasonable commercial efforts to maintain the delivery date acknowledged or quoted by Seller, all shipping dates are approximate. Seller reserves the right to make partial shipments and to segregate "specials" and made-to-order Goods from normal stock Goods. Seller shall not be bound to tender delivery of any Goods for which Buyer has not provided shipping instructions.
5. **QUANTITY:** Buyer agrees to accept overruns of up to ten percent (10%) of the order on "made-to-order" Goods, including parts. Any such additional items shall be priced at the price per item charged for the specific quantity ordered.
6. **LIMITED WARRANTY:** Subject to the limitations of Section 7, Seller warrants that the Goods will be free from defects in material and workmanship under normal use, service and maintenance for a period of one year (unless otherwise specified by Seller in writing) from the date of shipment of the Goods by Seller. **THIS IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY SELLER WITH RESPECT TO THE GOODS AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS OR OTHERWISE, AND WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE.**

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, unauthorized modification or alteration, use beyond rated capacity, or improper installation, maintenance or application. To the extent that Buyer or its agents has supplied specifications, information, representation of operating conditions or other data to Seller in the selection or design of the Goods and the preparation of Seller's quotation, and in the event that actual operating conditions or other conditions differ from those represented by Buyer, any warranties or other provisions contained herein which are affected by such conditions shall be null and void. If within thirty (30) days after Buyer's discovery of any warranty defects within the warranty period, Buyer notifies Seller thereof in writing, Seller shall, at its option, repair or replace F.O.B. point of manufacture, or refund the purchase price for that portion of the goods found by Seller to be defective. Failure by Buyer to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. Goods repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period or ninety (90) days, whichever is longer. Buyer assumes all other responsibility for any loss, damage, or injury to persons or property arising out of, connected with, or resulting from the use of Goods, either alone or in combination with other products/components.

SECTIONS 6 AND 7 APPLY TO ANY ENTITY OR PERSON WHO MAY BUY, ACQUIRE OR USE SELLER'S GOODS, INCLUDING ANY ENTITY OR PERSON WHO BUYS THE GOODS FROM SELLER'S DISTRIBUTOR AND SUCH ENTITY OR PERSON SHALL BE BOUND BY THE LIMITATIONS THEREIN.

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It is expressly understood that any technical advice furnished by Seller with respect to the use of the Goods is given without charge, and Seller assumes no obligation

or liability for the advice given, or results obtained, all such advice being given and accepted at Buyer's risk.

GOODS AND/OR SERVICES SOLD HEREUNDER ARE NOT FOR USE IN ANY NUCLEAR AND RELATED APPLICATIONS. Buyer accepts goods and/or services with the foregoing understanding, agrees to communicate the same in writing to any subsequent purchaser or users and to defend, indemnify and hold harmless Seller from any claims, losses, suits, judgments and damages, including incidental and consequential damages, arising from such use, whether the cause of action be based in tort, contract or otherwise, including allegations that the Seller's liability is based on negligence or strict liability.

8. **EXCUSE OF PERFORMANCE:** Seller shall not be liable for delays in performance or for non-performance due to acts of God, acts of Buyer, war, riot, fire, flood, other severe weather, sabotage, or epidemics; strikes or labor disturbances; governmental requests, restrictions, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or any events or causes beyond Seller's reasonable control. Deliveries may be suspended for an appropriate period of time as a result of the foregoing. If Seller determines that its ability to supply the total demand for the Goods, or to obtain material used directly or indirectly in the manufacture of the Goods, is hindered, limited or made impracticable due to causes addressed in this Section 8, Seller may allocate its available supply of the Goods or such material (without obligation to acquire other supplies of any such Goods or material) among itself and its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom. Deliveries suspended or not made by reason of this section may be canceled by Seller upon notice to Buyer without liability, but the balance of the agreement shall otherwise remain unaffected.

9. **CANCELLATIONS AND DELAYS:** The Buyer may cancel orders only upon written notice and upon payment to Seller of cancellation charges which include, among other things, all costs and expenses incurred and commitments made by the Seller and a reasonable profit thereon. Any request by Buyer to extend the delivery schedule must be agreed to in writing by the Seller. If agreement cannot be reached, Seller may deliver product to the last known ship to address and invoice the Buyer upon completion of the product or prior delivery date, whichever is later.

10. **CHANGES:** Buyer may request changes or additions to the Goods consistent with Seller's specifications and criteria. In the event such changes or additions are accepted by Seller, Seller may revise the price and delivery schedule. Seller reserves the right to change designs and specifications for the Goods without prior notice to Buyer, except with respect to Goods being made-to-order for Buyer.

11. **TOOLING:** Tool, die, and pattern charges, if any, are in addition to the price of the Goods and are due and payable upon completion of the tooling. All such tools, dies and patterns shall be and remain the property of Seller. Charges for tools, dies, and patterns do not convey to Buyer, title, ownership interests in, or rights to possession or removal, nor prevent their use by Seller for other purchasers, except as otherwise expressly provided by Seller and Buyer in writing with reference to this provision.

12. **ASSIGNMENT:** Buyer shall not assign its rights or delegate its duties hereunder or any interest therein or any rights hereunder without the prior written consent of the Seller, and any such assignment, without such consent, shall be void.

13. **PATENTS AND COPYRIGHTS:** Subject to Section 7, Seller warrants that the Goods sold, except as are made specifically for Buyer according to Buyer's specifications, do not infringe any valid U.S. patent or copyright in existence as of the date of delivery. This warranty is given upon the condition that Buyer promptly notify Seller of any claim or suit involving Buyer in which such infringement is alleged, and, that Buyer cooperate fully with Seller and permit Seller to control completely the defense or compromise of any such allegation of infringement. Seller's warranty as to use only applies to infringements arising solely out of the inherent operation (i) of such Goods, or (ii) of any combination of Goods in a system designed by Seller. In the event such Goods, singularly or in combination, are held to infringe a U.S. patent or copyright in such suit, and the use of such Goods is enjoined, or in the case of a compromise by Seller, Seller shall have the right, at its option and expense, to procure for Buyer the right to continue using such Goods, or replace them with non-infringing Goods; or modify same to become non-infringing; or grant Buyer a credit for the depreciated value of such Goods and accept return of them.

14. **MISCELLANEOUS:** These terms and conditions set forth the entire understanding and agreement between Seller and Buyer, and supersede all other communications, negotiations and prior oral or written statements regarding the subject matter of these terms and conditions. No change, modification, rescission, discharge, abandonment, or waiver of these terms and conditions of Sale shall be binding upon the Seller unless made in writing and signed on its behalf by an officer of the Seller. No conditions, usage or trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain, or supplement these Terms and Conditions shall be binding unless hereafter made in writing and signed by the party to be bound, and no modification shall be affected by the acceptance of purchase orders or shipping instruction forms containing terms at variance with or in addition to those set forth herein. Any such modifications or additional terms are specifically rejected by Seller. No waiver by Seller with respect to any breach or default or any right or remedy and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default or of any other right or remedy, unless such waiver be expressed in writing and signed by the party to be bound. Seller is not responsible for typographical or clerical errors made in any quotation, orders or publications. All such errors are subject to correction. The validity, performance, and all other matters relating to the interpretation and effect of this contract shall be governed by the law of the state of New York. The United Nations Convention on the International Sale of Goods shall not apply to any transaction hereunder.