

Browning

**TorqTaper® Plus
Shaft Mount
Speed Reducers**



the power of
EPT


EMERSON
Industrial Automation

EMERSON. CONSIDER IT SOLVED.

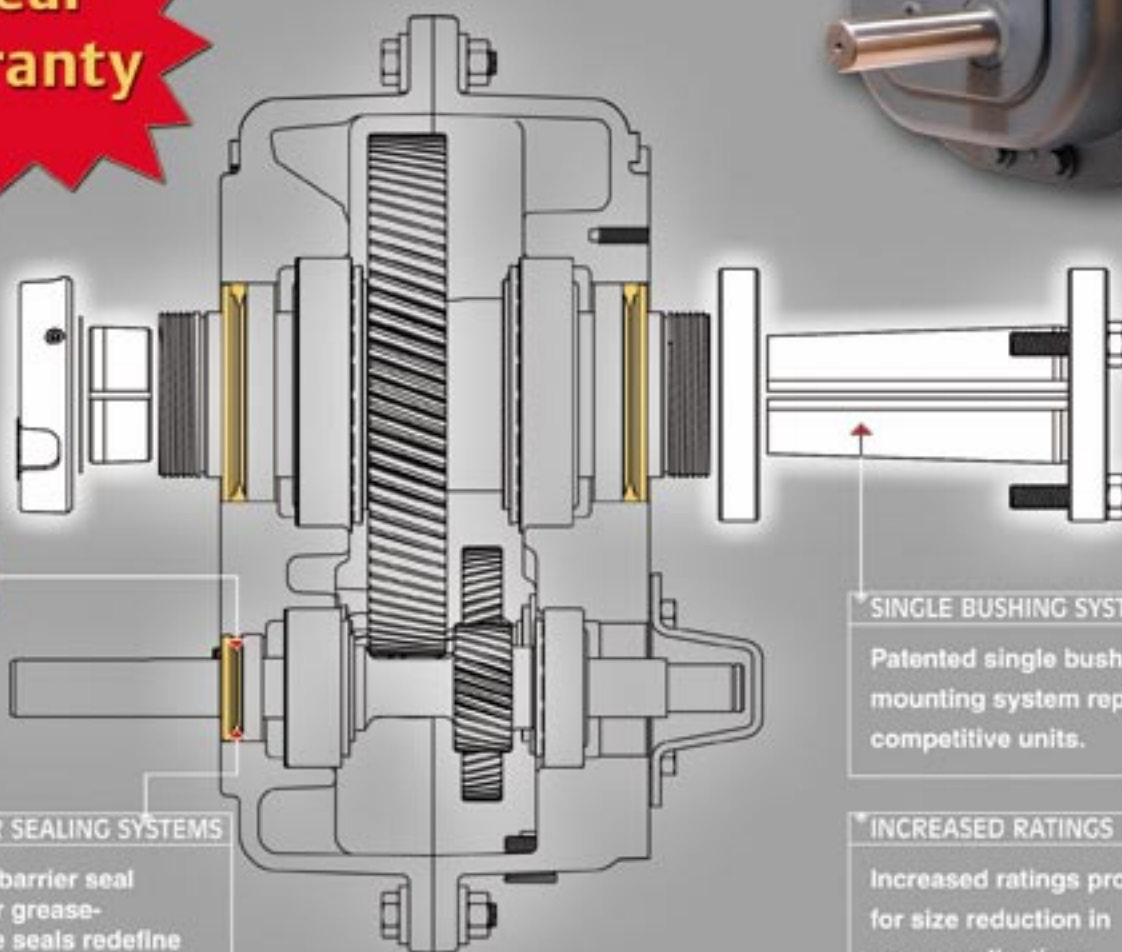
Browning Shaft Mount Reducers

The American Standard!

Featuring the patented single bushing mounting system.



**2 Year
Warranty**



2 SUPERIOR SEALING SYSTEMS

Patented barrier seal system or grease-purgeable seals redefine gearbox protection.

1 SINGLE BUSHING SYSTEM

Patented single bushing mounting system replaces competitive units.

3 INCREASED RATINGS

Increased ratings provide for size reduction in many applications.

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Connect Here to be Part of Something Bigger

COMPLETE DRIVE SYSTEM FROM ONE SOURCE.



Sizes 107 thru 608
(1 7/16" to 6 1/2" Output Bore)

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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.

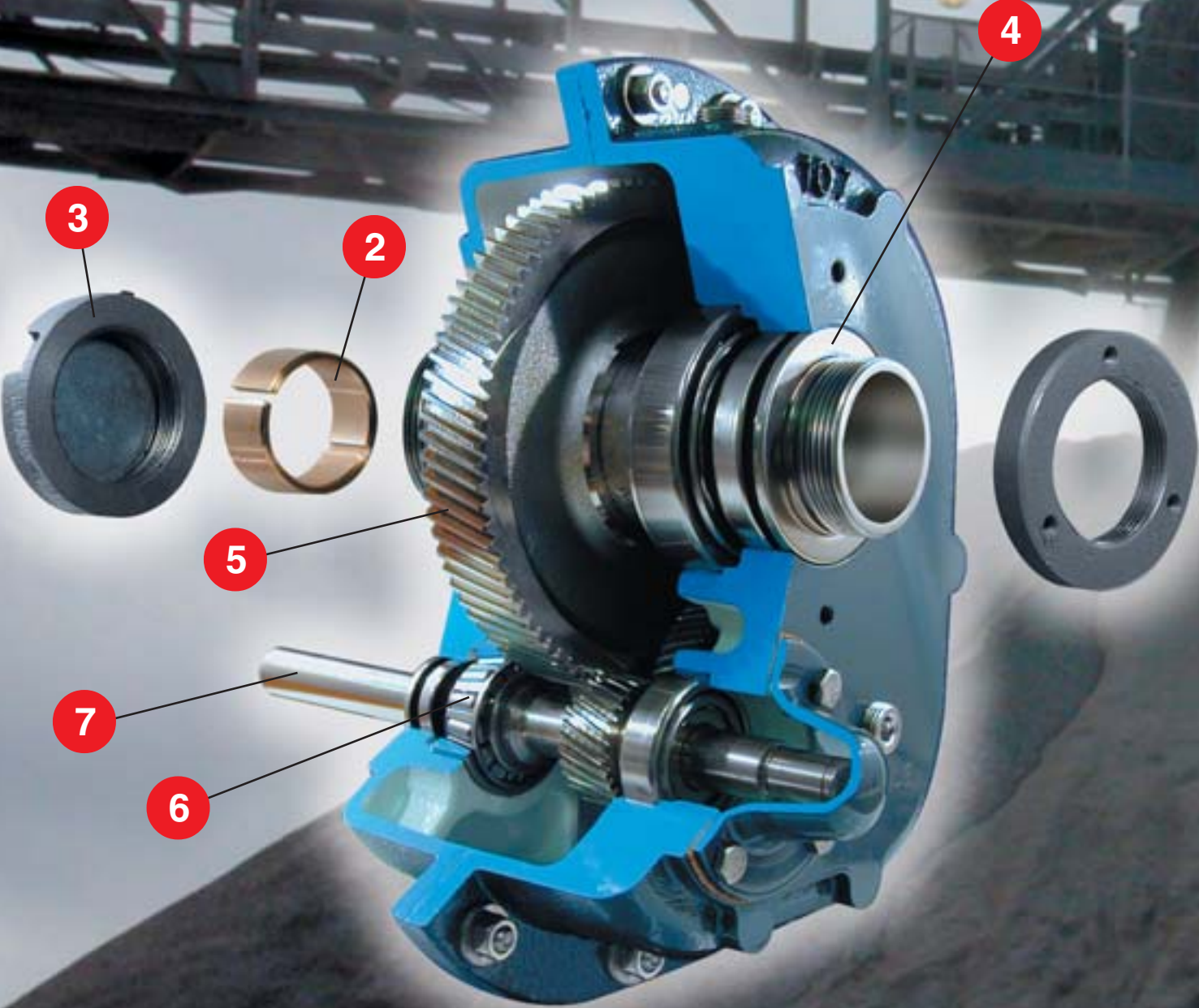


Patented Barrier Seal System

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 on the 107-315
3. End cap seals quill end from contamination on the 107-315
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
 - Grease-purgeable seals available on the 407-608 reducers
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 downsizing on many applications
- Pre-drilled and tapped face mount holes





Application Inspired... Hydraulically Driven



Browning Hydraulic TorqTaper Plus Shaft Mount Reducers

With over 25 years in developing innovative solutions for industries, Browning 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

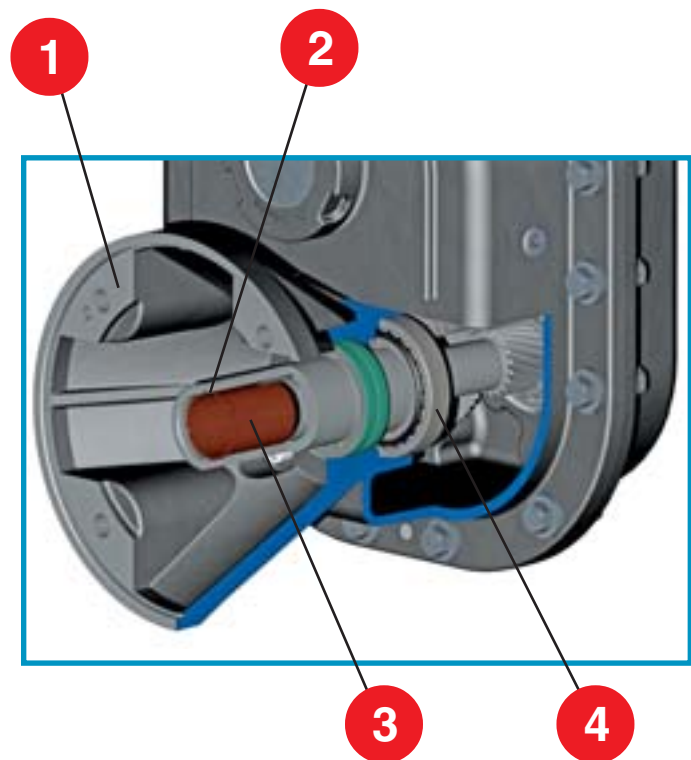
Innovative EPT C-Face Motor Connections



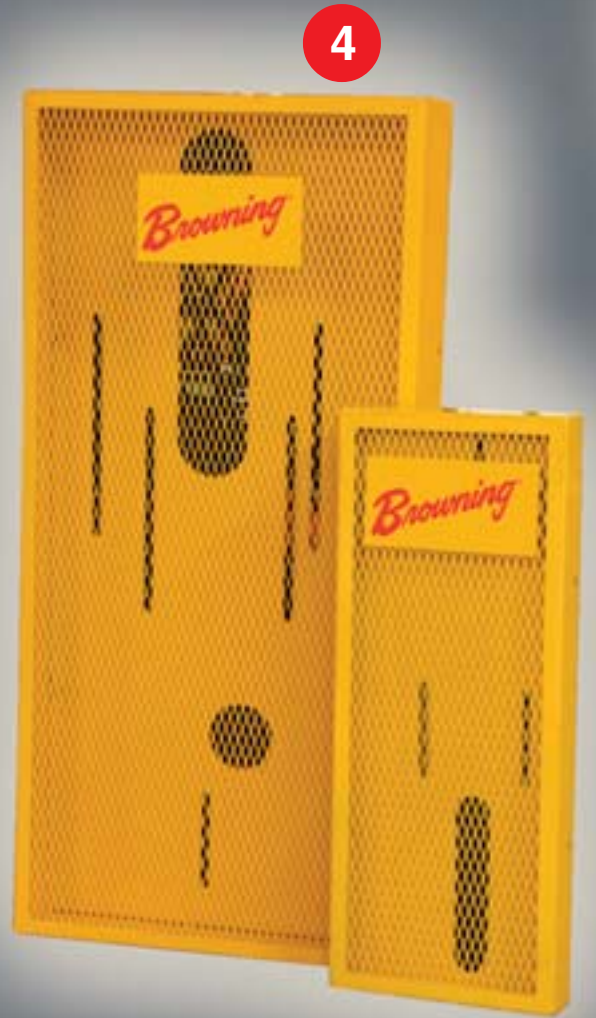
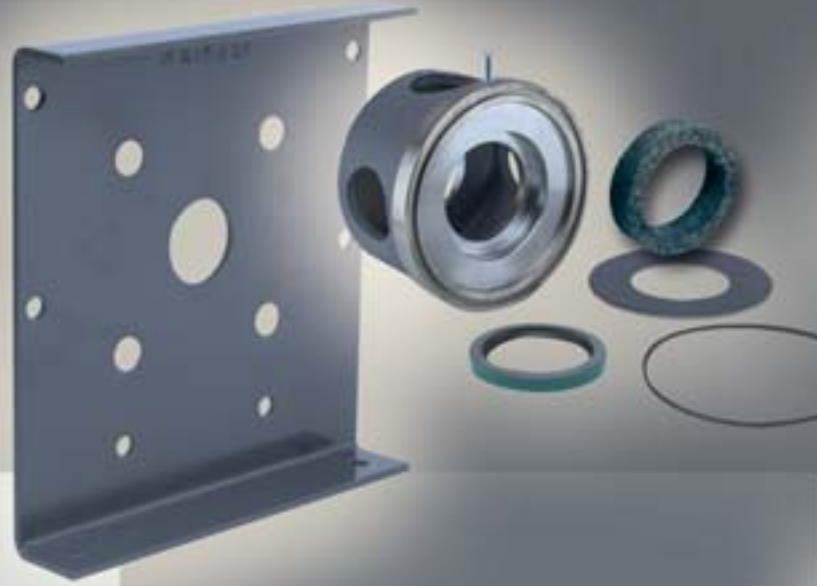
Browning C-Face TorqTaper Plus Shaft Mount Reducers

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 EPT 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 — eliminates shaft wobble and increases seal life





Check Out These Options for the TorqTaper Plus Reducers



- 1. Modular screw conveyor** – standard shaft mount converts to a screw conveyor drive using stock components.
 - Rugged mounting adapter
 - Two and three hole drive shafts available in plain carbon or stainless steel
 - Multiple sealing options
 - Close tolerance ring
 - Waste pack
 - Packing gland
 - CEMA standard trough ends
- 2. Backstop kits**
 - Easily installed in the field without disturbing bearing settings
 - Integral inner race eliminates input pinion wear
- 3. Patented bushing kits**
 - Field-proven TorqTaper Plus single bushing design
 - Self-locking taper angle creates powerful gripping forces
 - Stabilizer ring included in the 107-315 kits
- 4. Belt guard kits**
 - Stock belt guards accommodate most common v-belt drive combinations
 - Universal design can be used on all motor mount configurations
- 5. Motor mount kits**
 - Increased rigidity
 - Available in high, low and side mount configurations for most sizes
 - Slotted motor base simplifies belt drive alignment

Example No. 1

Units 107 - 315 Shaft Mounts

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 page 14 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 page 22 (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. A 207TBP207 bushing is required for the reducer, reference Table No. 14 on page 71. THE TORQUE ARM MUST BE ORDERED SEPARATELY. Select the 207TAP from Table No. 35 on page 91.

3. Select the Motor Mount

Determine if a top mount or side mount configuration is required. Reference Table No. 18 and 19 on page 76 and 77 for dimensions. After consulting the customer, it was determined that the top mount configuration was desired. From Table No. 18 select the correct motor mount supports, motor mount adapter and motor base: MMS207L, MMA207, MB203-207. BE SURE TO ORDER ALL THREE PARTS.

4. Select the Backstop

From Table No. 34 on page 91 select the 207BSP backstop.

5. Select the Belt Drive

From Table No. 18, page 76, note that the belt centers for this motor and reducer combination are 20.44 to 35.81. From page 22 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, see Table No. 1) = 1197 RPM. From the Gripbelt Drive Tables select a belt drive with a driven sheave not less than 4.3" PD and with center distance near the midpoint of the 20.44 to 35.81. This drive (1197 driven speed) consists of a 2B5V68 sheave with a B 1 5/8 bushing, a 2BK110 sheave with a B 1 7/16 bushing and 2 B68 Gripnotch belts.

6. Select the Belt Guard

From Table No. 25, page 82, select the BGP2 guard. Notice from the table that the CD range with the belt guard is 19.59 to 40.41" and the maximum reducer sheave that will fit into the belt guard in the top mount position is 23". Note that the part number, BGP2, which includes all the mounting hardware required to mount the guard onto the reducer.

7. List Components:

- | | |
|--------------------------------|-------------------------------|
| 1, 207SMTP15 Reducer | 1, MMA207 Motor Mount Adapter |
| 1, 2B5V68 Sheave | 1, B 1 7/16 Bushing |
| 1, 207TBP207 Bushing | 1, MB203-207 Motor Base |
| 1, B 1 5/8 Bushing | 2, B68 Belts |
| 1, MMS207L Motor Mount Support | 1, 207BSP Backstop |
| 1, 2BK110 Sheave | 1, BGP2 Belt Guard |

Example No. 2

Units 107 - 315 Screw Conveyors

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 page 14 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 page 21 (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 Table No. 28 on page 85 select part 115-203WPP.

4. Select the Screw Conveyor Adapter and Screw Conveyor Shaft

Using the basic reducer size and nominal ratio for the selection reference Table No. 28 on page 85. 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.

5. Select the Trough End

From Table No. 33 on page 90, 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 page 76 thru 81 for dimensions. After consulting with the customer it was determined that the top mount was desired. Select the MMS115H, MMA107-115 and MB107-115. BE SURE TO ORDER ALL THREE PARTS AND CHECK THE DIMENSION FROM TABLE No. 22 FROM PAGE 80. 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

From Table No. 18 on page 76, note that the belt center distance range for this reducer and motor combination is 17.50" to 34.24". From page 21 note the minimum sheave pitch diameter for the 115SMTP25 is 3.4". Reducer input speed = 60 (conveyor speed) x 24.8558 (Exact Reducer Ratio, see Table No. 1) = 1491 RPM. From the Gripbelt Drive Tables select a belt drive with a driven sheave not less than 3.4" PD and a center distance greater than 17.5 + 4.32 = 21.82". This drive (1496 driven speed) consists of an AK61H sheave with H 1 1/8" bushing, AK71H sheave with H 1 1/8" bushing, and 1 AX64 Gripnotch belt.

8. Select the Belt Guard

From Table No. 25, on page 82, select the BGP1 guard. Notice from the table that the CD range with the belt guard is 16.50 to 34.99"

Note: See "Application Considerations" on back cover.

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 BGP1 and includes all the mounting hardware required to mount the guard onto the reducer.

9. List the Components:

- | | |
|--|--|
| 1, 115SMTP25 Reducer | 1, MMS115L Motor Mount Support |
| 1, AK61H Sheave | 1, AX64 Belt |
| 1, 115SCA-P Screw Conveyor Adapter | 1, MMA107-115 Motor Mount Adapter |
| 2, H 1 1/8 Bushing | 1, MB107-115 Motor Base |
| 1, 115DSP207 Screw Conveyor Drive Shaft Kit | 1, SCTE14x2 7/16 Trough End |
| 1, AK71H Sheave | 1, BGP1 Belt Guard |
| 1, 115-203WWP Waste Pack Cartridge | |

Example No. 3

Units 407 - 608 Shaft Mounts

A shaft mount reducer and belt drive are required for a belt conveyor, which will be uniformly loaded and operated 16 to 24 hours per day at 33 RPM.

The conveyor requires 75 HP. The reducer will be mounted on the conveyor head shaft, which is 5 7/16" diameter. The customer wants to mount the 1750 RPM 365T frame motor on the reducer. The customer has also requested a backstop for the reducer.

1. Determine the Load Classification

From page 14 note that the load class is II for a uniformly loaded belt conveyor operating over 10 hours per day.

2. Determine the Speed Reducer Required

From page 23 (Reducer Selection Chart for Class II Service) select a reducer for 75 HP and 27-41 RPM, which in this case is a 507SMTP25 or 507SMTP15. Choose the 507SMTP25 as the larger ratio will require the most compact and generally most economical belt drive. A 507TBP507 bushing is required for the reducer, reference Table No. 16 on page 73. **THE TORQUE ARM MUST BE ORDERED SEPARATELY.** Select the 507TAP from Table No. 35 on page 91.

3. Select the Motor Mount

From Table No. 20 & 21 select the correct motor mount adapter and motor base: MBAP507H and MBP324-365. **BE SURE TO ORDER BOTH PARTS.**

4. Select the Backstop

From Table No. 34 on page 91 select the 507BSP backstop.

5. Select the Belt Drive

From Table No. 21, page 79, note that the belt centers for this motor and reducer combination are 37.69" to 48.38". From page 23 note that 7.9" is the minimum sheave pitch diameter for the 507SMTP25 reducer chosen in Step 2. Reducer input speed = 33 (conveyor speed) x 25.3846 (Exact Reducer Ratio, see Table No. 1) = 838 RPM. From the Gripbelt Drive Tables select a belt drive with a driven sheave not less than 7.9" PD and with center distance near the midpoint of the 37.69" to 48.38". This drive (838 driven speed) consists of a 4B5V86 sheave with a B 2 3/8 bushing, a 45V1870E sheave with an E 2 5/8 bushing and 4 5VX1230 Gripnotch Belts.

6. Select the Belt Guard

From Table No. 26, page 83 select the BGP5 guard. Notice from the table that the CD range with the belt guard is 30" to 40" and the maximum reducer sheave that will fit into the belt guard in the top mount position is 27". From Table No. 26 on page 83, select a BGMKP507 mounting kit to complete the assembly.

7. List Components:

- | | |
|--------------------------------|---------------------------------|
| 1, 507SMTP25 Reducer | 1, BGP5 Belt Guard |
| 1, 507TAP Torque Arm | 1, MBP324-365 Motor Base |
| 1, 507TBP507 Bushing | 1, B 2 3/8 Bushing |
| 1, 507BSP Backstop | 1, E 2 5/8 Bushing |
| 1, MBAP507H Motor Mount | 1, 45V1870E Sheave |
| | 1, 4B5V86 Sheave |
| | 4, 5VX1230 Belts |

Table No. 1 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	-

Note: See "Application Considerations" on back cover.

Table No. 2

Classification Numbers

Application	AGMA Class Numbers			Application	AGMA Class Numbers		
	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
AGITATORS (Mixers)				FANS (Cont'd)			
Pure Liquids	I	I	II	Cooling Towers	III	III	III
Liquids and Solids	I	II	II	Forced Draft	II	II	II
Liquids - Variable Density	I	II	II	Induced Draft	II	II	II
BLOWERS				Industrial & Mine	II	II	II
Centrifugal & Vane	I	I	II	FEEDERS			
Lobe	I	II	II	Apron	I	II	II
Vane	I	II	II	Belt	I	II	II
BREWING AND DISTILLING				Disc	I	I	II
Bottling Machinery	I	I	II	Reciprocating	II	III	III
Brew Kettles - Continuous Duty	II	II	II	Screw	I	II	II
Cookers - Continuous Duty	II	II	II	FOOD INDUSTRY			
Mash Tubs - Continuous Duty	II	II	II	Cereal Cooker	I	I	II
Scale Hopper - Frequent Starts	II	II	II	Dough Mixer	II	II	II
CAN FILLING MACHINES	I	I	II	Meat Grinders	II	II	II
CAR DUMPERS	II	III	III	Slicers	I	II	II
CAR PULLERS	I	II	II	GENERATORS AND EXCITERS	II	II	II
CLARIFIERS	I	I	II	HAMMER MILLS	III	III	III
CLASSIFIERS	I	II	II	HOISTS			
CLAY WORKING MACHINERY				Heavy Duty	◆	◆	◆
Brick Presses	II	III	III	Medium Duty	◆	◆	◆
Briquette Machines	II	III	III	Skip Hoist	◆	◆	◆
Pug Mills	I	II	II	LAUNDRY TUMBLERS	II	II	II
COMPACTORS	◆	◆	◆	LAUNDRY WASHERS	II	II	III
COMPRESSORS				LUMBER INDUSTRY			
Centrifugal	I	I	II	Barkers			
Lobe	I	II	II	Spindle Feed	II	II	II
Reciprocating, Multi-Cylinder	II	II	III	Main Drive	III	III	III
Reciprocating, Single-Cylinder	III	III	III	Conveyors			
CONVEYORS - GENERAL PURPOSE				Burner	II	II	II
Includes Apron, Assembly, Belt, Bucket				Main or Heavy Duty	II	II	II
Chain, Flight, Oven, and Screw				Main Log	III	III	III
Uniformly Loaded or Fed	I	I	II	Re-saw, Merry-Go-Round	II	II	II
Heavy Duty - Not Uniformly Fed	I	II	II	Slab	III	III	III
Severe Duty - Reciprocating or Shaker	II	III	III	Transfer	II	II	II
CRANES				Chains			
Dry Dock				Floor	II	II	II
Main Hoist	◆	◆	◆	Green	II	II	III
Auxiliary Hoist	◆	◆	◆	Cut-Off-Saws			
Boom Hoist	◆	◆	◆	Chain	II	II	III
Slewing Drive	◆	◆	◆	Drag	II	II	III
Traction Drive	◆	◆	◆	Debarking Drums	III	III	III
Container				Feeds			
Main Hoist	◆	◆	◆	Edger	II	II	II
Boom Hoist	◆	◆	◆	Gang	II	III	III
Trolley Drive				Trimmer	II	II	II
Gantry Drive	◆	◆	◆	Log Deck	III	III	III
Traction Drive	◆	◆	◆	Log Hauls - Incline - Well Type	III	III	III
Mill Duty				Log Turning Devices	III	III	III
Main Hoist	◆	◆	◆	Planer Feed	II	II	II
Auxiliary	◆	◆	◆	Planer Tilting Hoists	II	II	II
Bridge Travel	◆	◆	◆	Rolls - Live-Off Brg - Roll Cases	III	III	III
Trolley Travel	◆	◆	◆	Sorting Table	II	II	II
Industrial Duty				Tipple Hoist	II	II	II
Main	◆	◆	◆	Transfer			
Auxiliary	◆	◆	◆	Chain	II	II	III
Bridge Travel	◆	◆	◆	Craneway	II	II	III
Trolley Travel	◆	◆	◆	Tray Drives	II	II	II
CRUSHERS				Veneer Lathe Drives	II	II	II
Stone or Ore	III	III	III	METAL MILLS			
DREDGES				Draw Bench Carriage and Main Drive	II	II	II
Cable Reels	II	II	II	Runout Table			
Conveyors	II	II	II	Non-Reversing			
Cutter Head Drives	III	III	III	Group Drives	II	II	II
Pumps	III	III	III	Individual Drives	III	III	III
Screen Drives	III	III	III	Reversing	III	III	III
Stackers	II	II	II	Slab Pushers	II	II	II
Winches	II	II	II	Shears	III	III	III
ELEVATORS				Wire Drawing	II	II	II
Bucket	I	II	II	Wire Winding Machine	II	II	II
Centrifugal Discharge	I	I	II	METAL STRIP PROCESSING MACHINERY			
Escalators	I	I	II	Bridges	II	II	II
Freight	I	II	II	Collers & Uncoilers	I	I	II
Gravity Discharge	I	I	II	Edge Trimmers	I	II	II
EXTRUDERS				Flatteners	II	II	II
General	II	II	II	Loopers (Accumulators)	I	I	I
Plastics				Pinch Rolls	II	II	III
Variable Speed Drive	III	III	III	Scrap Choppers	II	II	II
Fixed Speed Drive	III	III	III	Shears	III	III	III
Rubber				Slitters	I	II	II
Continuous Screw Operation	III	III	III	MILLS, ROTARY TYPE			
Intermittent Screw Operation	III	III	III	Ball & Rod			
FANS				Spur Ring Gear	III	III	III
Centrifugal	I	I	II	Helical Ring Gear	II	II	II
				Direct Connected	III	III	III

Table No. 2 (Continued)

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 Table No. 2 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 EPT Technical Services for the selection of AGMA Class Numbers in these applications.

SMTP/SMFP



SMTP/SMFP Selection Chart



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
	107SMTP15	2.6
81 - 89	107SMTP09	4.4
	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
	107SMTP15	2.8
81 - 89	107SMTP09	4.7
	107SMTP25	2.3
	107SMTP15	2.8
90 - 130	107SMTP09	4.7
	107SMTP15	2.8
	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
	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
15 - 20	203SMTP09	3.8
	115SMTP35	3.4
	115SMTP25	3.4
21 - 50	115SMTP15	3.4
	115SMTP09	3.4
	107SMTP35	2.3
51 - 80	107SMTP25	2.3
	107SMTP15	2.7
	107SMTP09	4.5
	107SMTP09	4.5
81 - 89	107SMTP15	2.7
	107SMTP09	4.5
	107SMTP15	2.7
90 - 130	107SMTP09	4.5
	107SMTP05	4.6
	107SMTP15	2.7
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



SMTP/SMFP Selection Chart



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	407SMTP25	6.4
	407SMTP15	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	415SMTP25	7.1
	415SMTP15	7.1
6 - 7	407SMTP25	6.4
	407SMTP15	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 - 8	415SMTP25	7.1
	415SMTP15	7.1

Output RPM	Reducer Size	Minimum Sheave P.D.
15 HP MOTOR (Cont'd)		
9 - 11	407SMTP25	6.4
	407SMTP15	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	507SMTP25	7.9
	507SMTP15	8.3
7 - 11	415SMTP25	7.1
	415SMTP15	7.1
12 - 14	407SMTP25	6.4
	407SMTP15	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

SMTP/SMFP

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	608SMTP25	8.0
	608SMTP15	11.4
6 - 8	507SMTP25	7.9
	507SMTP15	8.7
9 - 14	415SMTP25	7.1
	415SMTP15	7.1
15 - 18	407SMTP25	6.4
	407SMTP15	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	608SMTP25	8.1
	608SMTP15	11.4
7 - 10	507SMTP25	7.9
	507SMTP15	8.9
11 - 17	415SMTP25	7.1
	415SMTP15	7.1
18 - 23	407SMTP25	6.4
	407SMTP15	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	◆	
6 - 9	608SMTP25	8.1
	608SMTP15	12.7
10 - 14	507SMTP25	7.9
	507SMTP15	8.3
15 - 24	415SMTP25	7.1
	415SMTP15	7.1
25 - 31	407SMTP25	6.4
	407SMTP15	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	◆	
8 - 11	608SMTP25	8.1
	608SMTP15	11.9
12 - 18	507SMTP25	7.9
	507SMTP15	8.7
19 - 31	415SMTP25	7.1
	415SMTP15	7.1
32 - 39	407SMTP25●	6.4
	407SMTP15	6.4
40 - 50	315SMTP35●	6.4
	315SMTP25●	6.4
	315SMTP15	6.4
	315SMTP09	8.6
51 - 58	315SMTP25●	6.4
	315SMTP15	
	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 - 9	◆	
10 - 14	608SMTP25	8.1
	608SMTP15	11.4
15 - 22	507SMTP25	7.9
	507SMTP15	8.3
23 - 37	415SMTP25	7.1
	415SMTP15	7.1
38 - 48	407SMTP25●	6.4
	407SMTP15●	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 EPT Technical Services for the selection of an EPT enclosed gear drive



SMTP/SMFP Selection Chart



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 - 11	◆	
12 - 18	608SMTP25	8.1
	608SMTP15	11.9
19 - 28	507SMTP25	7.9
	507SMTP15	8.2
29 - 48	415SMTP25 [●]	7.1
	415SMTP15	7.1
49 - 61	407SMTP25 [●]	6.4
	407SMTP15 [●]	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
	407SMTP05	28.0
103 - 123	307SMTP15 [●]	6.0
	307SMTP09 [●]	9.8
	407SMTP05	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 - 15	◆	
16 - 24	608SMTP25	8.1
	608SMTP15	12.7
25 - 38	507SMTP25 [●]	7.9
	507SMTP15	9.9
39 - 72	415SMTP25 [●]	7.1
	415SMTP15 [●]	7.1
73 - 80	415SMTP25 [●]	7.1
	407SMTP15 [●]	6.7
81 - 87	407SMTP15 [●]	6.7
88 - 89	407SMTP15 [●]	6.7
	315SMTP09 [●]	14.3
90 - 95	407SMTP15 [●]	6.7
	315SMTP09 [●]	14.3
	415SMTP05	40.5

Output RPM	Reducer Size	Minimum Sheave P.D.
100 HP MOTOR (Cont'd)		
96 - 117	315SMTP15 [●]	6.4
	315SMTP09 [●]	14.3
	415SMTP05	40.5
118 - 130	315SMTP15 [●]	6.4
	315SMTP09 [●]	14.3
	407SMTP05	30.4
131 - 155	315SMTP09 [●]	14.3
	407SMTP05	30.4
156 - 186	307SMTP09 [▲]	9.6
	407SMTP05	30.4
187 - 200	307SMTP09 [▲]	9.6
	315SMTP05	19.6
201 - 280	315SMTP05	19.6
281 - 400	307SMTP05 [●]	8.4
125 HP MOTOR		
5 - 20	◆	
21 - 31	608SMTP25 [●]	8.3
	608SMTP15	17.3
32 - 51	507SMTP25 [●]	7.9
	507SMTP15	11.7
52 - 80	415SMTP25 [●]	7.1
	415SMTP15 [●]	7.1
81 - 89	415SMTP15 [●]	7.1
90 - 99	415SMTP15 [●]	7.1
	415SMTP05	40.5
100 - 121	407SMTP15 [●]	6.7
122 - 130	415SMTP05	40.5
	315SMTP09 [▲]	14.0
131 - 161	415SMTP05	40.5
	315SMTP09 [▲]	14.0
162 - 200	315SMTP09 [▲]	14.0
	407SMTP05	29.9
201 - 256	407SMTP05	29.9
257 - 394	315SMTP05 [●]	19.2
395 - 400	307SMTP05 [●]	8.2
150 HP MOTOR		
5 - 24	◆	
25 - 40	608SMTP25 [●]	10.5
	608SMTP15	23.4
41 - 67	507SMTP25 [●]	7.9
68 - 80	507SMTP15	11.9
	415SMTP25 [▲]	7.1
81 - 111	415SMTP15 [●]	7.1
	415SMTP15 [●]	7.1
112 - 130	415SMTP15 [●]	7.1
	415SMTP05	41.3
131 - 159	415SMTP05	41.3
160 - 200	315SMTP09 [▲]	13.6
	415SMTP05	41.3
201 - 210	415SMTP05	41.3
211 - 334	407SMTP05 [●]	29.4
335 - 400	315SMTP05 [●]	19.0
200 HP MOTOR		
5 - 35	◆	
36 - 61	608SMTP25 [●]	11.5
	608SMTP15 [●]	20.9

Output RPM	Reducer Size	Minimum Sheave P.D.
200 HP MOTOR (Cont'd)		
62 - 80	507SMTP25 [▲]	11.5
	507SMTP15 [●]	11.9
81 - 101	507SMTP15 [●]	11.9
102 - 130	415SMTP15 [▲]	7.1
131 - 168	◆	
169 - 317	415SMTP05 [●]	40.4
318 - 400	407SMTP05 [●]	28.5
250 HP MOTOR		
5 - 50	◆	
51 - 80	608SMTP25 [▲]	10.5
	608SMTP15 [▲]	19.1
81 - 84	608SMTP15 [▲]	19.1
85 - 130	507SMTP15 [▲]	11.9
131 - 232	◆	
233 - 400	415SMTP05 [●]	39.9
300 HP MOTOR		
5 - 66	◆	
67 - 80	608SMTP25 [▲]	10.4
	608SMTP15 [▲]	17.9
81 - 110	608SMTP15 [▲]	17.9
111 - 130	507SMTP15 [▲]	11.8
131 - 302	◆	
303 - 400	415SMTP05 [▲]	39.4
350 HP MOTOR		
5 - 84	◆	
85 - 130	608SMTP15 [▲]	16.8
131 - 378	◆	
379 - 400	415SMTP05 [▲]	39.0
400 HP MOTOR		
5 - 104	◆	
105 - 130	608SMTP15 [▲]	15.8
131 - 400	◆	
450 HP MOTOR		
5 - 125	◆	
126 - 130	608SMTP15 [▲]	15.1
131 - 400	◆	
500 HP MOTOR		
5 - 400	◆	
600 HP MOTOR		
5 - 400	◆	
700 HP MOTOR		
5 - 400	◆	

NOTES:

- Requires fan kit
- ▲ Requires pump and cooler kit
- ◆ Contact EPT Technical Services for the selection of an EPT enclosed gear drive

SMTP/SMFP



SMTP/SMFP Selection Chart



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



SMTP/SMFP Selection Chart



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
90-130	107SMTP15	2.3
	107SMTP09	3.2
	107SMTP05	2.8
131-200	107SMTP09	3.2
	107SMTP05	2.8
201-400	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

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
	107SMTP05	4.9
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
201 - 400	107SMTP05	2.8
7 1/2 HP MOTOR		
5	415SMTP25	7.1
	415SMTP15	7.1
6 - 7	407SMTP25	6.4
	407SMTP15	6.4
8 - 9	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
10 - 17	315SMTP09	6.4
	307SMTP35	6.0
	307SMTP25	6.0
18 - 29	307SMTP15	6.0
	307SMTP09	6.0
	215SMTP35	5.6
30 - 46	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
47 - 50	207SMTP35	4.3
	207SMTP25	4.3
	207SMTP15	4.3
	207SMTP09	4.3
51 - 80	203SMTP35	3.8
	203SMTP25	3.8
	203SMTP15	3.8
	203SMTP09	3.8
81 - 82	203SMTP25	3.8
	203SMTP15	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
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 - 7	415SMTP25	7.1
	415SMTP15	7.1
8 - 10	407SMTP25	6.4
	407SMTP15	6.4
11 - 13	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
14 - 23	315SMTP09	6.4
	307SMTP35	6.0
	307SMTP25	6.0
24 - 39	307SMTP15	6.0
	307SMTP09	6.0
	215SMTP35	5.6
40 - 50	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
	207SMTP35	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
	203SMTP05	4.2
90 - 111	203SMTP15	3.8
	203SMTP09	3.8
	203SMTP05	4.2
112 - 130	115SMTP15	3.4
	115SMTP09	3.4
	203SMTP05	4.2
131 - 145	115SMTP09	3.4
	203SMTP05	4.2
	115SMTP05	6.9
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	507SMTP25	7.9
	507SMTP15	7.9
8 - 12	415SMTP25	7.1
	415SMTP15	7.1
13 - 15	407SMTP25	6.4
	407SMTP15	6.4
16 - 20	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
21 - 36	315SMTP09	6.4
	307SMTP35	6.0
	307SMTP25	6.0
37 - 40	307SMTP15	6.0
	307SMTP09	6.0

SMTP/SMFP



SMT/SMFP Selection Chart



Class II Service (1.4 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
15 HP MOTOR (Cont'd)		
37 - 50	215SMT/35	5.6
	215SMT/25	5.6
	215SMT/15	5.6
	215SMT/09	5.6
51 - 66	215SMT/25	5.6
	215SMT/15	5.6
	215SMT/09	5.6
67 - 80	207SMT/25	4.3
	207SMT/15	4.3
	207SMT/09	4.3
81 - 89	207SMT/15	4.3
	207SMT/09	4.3
90 - 97	207SMT/15	4.3
	207SMT/09	4.3
	215SMT/05	5.6
98 - 122	207SMT/15	4.3
	207SMT/09	4.3
	207SMT/05	6.9
123 - 130	203SMT/15	3.8
	203SMT/09	3.8
	203SMT/05	4.9
131 - 181	203SMT/09	3.8
	203SMT/05	4.9
182 - 200	115SMT/09	3.4
	203SMT/05	4.9
201 - 261	203SMT/05	4.9
262 - 400	115SMT/05	6.7
20 HP MOTOR		
5 - 6	608SMT/25	8.1
	608SMT/15	8.1
7 - 9	507SMT/25	7.9
	507SMT/15	7.9
10 - 16	415SMT/25	7.1
	415SMT/15	7.1
17 - 21	407SMT/25	6.4
	407SMT/15	6.4
22 - 27	315SMT/35	6.4
	315SMT/25	6.4
	315SMT/15	6.4
	315SMT/09	6.4
28 - 50	307SMT/35	6.0
	307SMT/25	6.0
	307SMT/15	6.0
	307SMT/09	6.0
51 - 80	215SMT/25	5.6
	215SMT/15	5.6
	215SMT/09	5.6
90 - 96	215SMT/15	5.6
	215SMT/09	5.6
	215SMT/05	5.6
97 - 130	207SMT/15	4.3
	207SMT/09	4.3
	215SMT/05	5.6
131 - 147	207SMT/09	4.3
	215SMT/05	5.6
148 - 189	207SMT/09	4.3
	207SMT/05	6.8
190 - 200	203SMT/09	3.8
	203SMT/05	4.8

Output RPM	Reducer Size	Minimum Sheave P.D.
20 HP MOTOR (Cont'd)		
201 - 396	203SMT/05	4.8
397 - 400	115SMT/05	6.5
25 HP MOTOR		
5	◆	
6 - 7	608SMT/25	8.1
	608SMT/15	8.1
8 - 12	507SMT/25	7.9
	507SMT/15	7.9
13 - 21	415SMT/25	7.1
	415SMT/15	7.1
22 - 27	407SMT/25	6.4
	407SMT/15	6.4
28 - 35	315SMT/35	6.4
	315SMT/25	6.4
	315SMT/15	6.4
	315SMT/09	6.4
36 - 50	307SMT/35	6.0
	307SMT/25	6.0
	307SMT/15	6.0
51 - 62	307SMT/15	6.0
	307SMT/09	6.0
	307SMT/05	6.0
63 - 80	215SMT/25	5.6
	215SMT/15	5.6
	215SMT/09	5.6
81 - 89	215SMT/15	5.6
	215SMT/09	5.6
90 - 107	215SMT/15	5.6
	215SMT/09	5.6
	307SMT/05	6.0
108 - 130	215SMT/15	5.6
	215SMT/09	5.6
	215SMT/05	5.6
131 - 200	207SMT/09	4.3
	215SMT/05	5.6
201 - 269	207SMT/05	6.7
	270 - 400	203SMT/05
30 HP MOTOR		
5 - 6	◆	
7 - 9	608SMT/25	8.1
	608SMT/15	8.2
10 - 15	507SMT/25	7.9
	507SMT/15	7.9
16 - 25	415SMT/25	7.1
	415SMT/15	7.1
26 - 33	407SMT/25	6.4
	407SMT/15	6.4
34 - 45	315SMT/35	6.4
	315SMT/25	6.4
	315SMT/15	6.4
46 - 50	307SMT/35	6.0
	307SMT/25	6.0
	307SMT/15	6.0
51 - 80	307SMT/09	6.0
	307SMT/05	6.0
	307SMT/09	6.0

Output RPM	Reducer Size	Minimum Sheave P.D.
30 HP MOTOR (Cont'd)		
81 - 89	307SMT/15	6.0
	215SMT/09	5.6
90 - 130	215SMT/15	5.6
	215SMT/09	5.6
	307SMT/05	6.0
131 - 140	215SMT/09	5.6
	307SMT/05	6.0
141 - 167	215SMT/09	5.6
	215SMT/05	5.6
168 - 200	207SMT/09	4.3
	215SMT/05	5.6
201 - 264	215SMT/05	5.6
265 - 351	207SMT/05	6.6
352 - 400	203SMT/05	4.6
40 HP MOTOR		
5 - 8	◆	
9 - 13	608SMT/25	8.1
	608SMT/15	8.5
14 - 20	507SMT/25	7.9
	507SMT/15	7.9
21 - 35	415SMT/25	7.1
	415SMT/15	7.1
36 - 45	407SMT/25	6.4
	407SMT/15	6.4
46 - 50	315SMT/35	6.4
	315SMT/25	6.4
	315SMT/15	6.4
	315SMT/09	6.7
51 - 70	315SMT/25	6.4
	315SMT/15	6.4
	315SMT/09	6.7
71 - 80	307SMT/25●	6.0
	307SMT/15	6.0
	307SMT/09	6.0
81 - 89	307SMT/15	6.0
	307SMT/09	6.0
90 - 117	307SMT/15	6.0
	307SMT/09	6.0
	315SMT/05	13.5
118 - 122	307SMT/15	6.0
	307SMT/09	6.0
	307SMT/05	6.4
123 - 130	215SMT/15	5.6
	215SMT/09	5.6
	307SMT/05	6.4
131 - 200	215SMT/09	5.6
	307SMT/05	6.4
201 - 216	307SMT/05	6.4
217 - 400	215SMT/05	5.6
50 HP MOTOR		
5 - 10	◆	
11 - 16	608SMT/25	8.1
	608SMT/15	8.6
17 - 26	507SMT/25	7.9
	507SMT/15	7.9
27 - 44	415SMT/25	7.1
	415SMT/15	7.1
45 - 57	407SMT/25●	6.4
	407SMT/15	6.4

- NOTES:**
- Requires fan kit
 - ▲ Requires pump and cooler kit
 - ◆ Contact EPT Technical Services for the selection of an EPT enclosed gear drive



SMTP/SMFP Selection Chart



Class II Service (1.4 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
50 HP MOTOR (Cont'd)		
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
	407SMTP05	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 - 13	◆	
14 - 20	608SMTP25	8.1
	608SMTP15	8.2
21 - 32	507SMTP25	7.9
	507SMTP15	7.9
33 - 56	415SMTP25	7.1
	415SMTP15	7.1
57 - 70	407SMTP25●	6.4
	407SMTP15●	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
	407SMTP05	22.0
121 - 130	307SMTP15●	6.0
	307SMTP09●	7.0
	407SMTP05	22.0
131 - 144	307SMTP09●	7.0
	407SMTP05	22.0
145 - 200	307SMTP09●	7.0
	315SMTP05	14.2
201 - 215	315SMTP05	14.2
216 - 400	307SMTP05	6.1
75 HP MOTOR		
5 - 16	◆	
17 - 26	608SMTP25	8.1
	608SMTP15	9.6
27 - 41	507SMTP25	7.9
	507SMTP15	7.9
42 - 77	415SMTP25●	7.1
	415SMTP15	7.1
78 - 80	407SMTP25●	6.4
	407SMTP15●	6.4
81 - 89	407SMTP15●	6.4
90 - 94	407SMTP15●	6.4
	415SMTP05	24.3

Output RPM	Reducer Size	Minimum Sheave P.D.
75 HP MOTOR (Cont'd)		
95 - 102	407SMTP15●	6.4
	315SMTP09●	10.1
	415SMTP05	24.3
103 - 125	315SMTP15●	6.4
	315SMTP09●	10.1
	415SMTP05	24.3
126 - 130	315SMTP15●	6.4
	315SMTP09●	10.1
	407SMTP05	21.8
131 - 166	315SMTP09●	10.1
	407SMTP05	21.8
167 - 200	307SMTP09●	6.8
	407SMTP05	21.8
201 - 301	315SMTP05	13.9
302 - 400	307SMTP05	6.0
100 HP MOTOR		
5 - 22	◆	
23 - 37	608SMTP25	8.1
	608SMTP15	14.6
38 - 61	507SMTP25●	7.9
	507SMTP15	8.4
62 - 80	415SMTP25●	7.1
	415SMTP15●	7.1
81 - 100	415SMTP15●	7.1
101 - 116	415SMTP15●	7.1
	415SMTP05	29.6
117 - 130	407SMTP15●	6.4
	415SMTP05	29.6
131 - 143	415SMTP05	29.6
144 - 190	315SMTP09●	9.8
	415SMTP05	29.6
191 - 200	315SMTP09●	9.8
	407SMTP05	21.1
201 - 302	407SMTP05	21.1
303 - 400	315SMTP05	13.7
125 HP MOTOR		
5 - 29	◆	
30 - 50	608SMTP25●	9.8
	608SMTP15	15.0
51 - 80	507SMTP25●	7.9
	507SMTP15	8.5
81 - 130	415SMTP15●	7.1
139 - 199	415SMTP05	29.3
200 - 262	◆	
263 - 400	407SMTP05●	20.7
150 HP MOTOR		
5 - 38	◆	
39 - 66	608SMTP25●	8.1
	608SMTP15	14.7
67 - 80	507SMTP25●	7.9
	507SMTP15	8.4
81 - 108	507SMTP15	8.4
109 - 130	415SMTP15●	7.1
131 - 180	◆	
181 - 340	415SMTP05	28.9
341 - 400	407SMTP05●	20.3

Output RPM	Reducer Size	Minimum Sheave P.D.
200 HP MOTOR		
5 - 59	◆	
60 - 80	608SMTP25●	8.1
	608SMTP15●	13.2
81 - 99	608SMTP15●	13.2
100 - 130	507SMTP15●	8.5
131 - 273	◆	
274 - 400	415SMTP05●	28.3
250 HP MOTOR		
5 - 84	◆	
85 - 130	608SMTP15●	12.0
131 - 378	◆	
379 - 400	415SMTP05▲	27.9
300 HP MOTOR		
5 - 112	◆	
113 - 130	608SMTP15▲	11.1
131 - 400	◆	
350 HP MOTOR		
5 - 400	◆	
400 HP MOTOR		
5 - 400	◆	
450 HP MOTOR		
5 - 400	◆	
500 HP MOTOR		
5 - 400	◆	

- NOTES:**
- Requires fan kit
 - ▲ Requires pump and cooler kit
 - ◆ Contact EPT Technical Services for the selection of an EPT enclosed gear drive

SMTP/SMFP



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



SMTP/SMFP Selection Chart



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	415SMTP25	7.1
	415SMTP15	7.1
6 - 7	407SMTP25	6.4
	407SMTP15	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 - 8	415SMTP25	7.1
	415SMTP15	7.1
9 - 11	407SMTP25	6.4
	407SMTP15	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	507SMTP25	7.9
	507SMTP15	7.9
7 - 11	415SMTP25	7.1
	415SMTP15	7.1
12 - 14	407SMTP25	6.4
	407SMTP15	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	608SMTP25	8.1
	608SMTP15	8.1
7 - 10	507SMTP25	7.9
	507SMTP15	7.9
11 - 17	415SMTP25	7.1
	415SMTP15	7.1

SMTP/SMFP

Class III Service (2.0 S.F.)

Output RPM	Reducer Size	Minimum Sheave P.D.
15 HP MOTOR (Cont'd)		
18 - 23	407SMTP25	6.4
	407SMTP15	6.4
24 - 30	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
31 - 50	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
51 - 80	215SMTP25	5.6
	215SMTP15	5.6
	215SMTP09	5.6
81 - 89	215SMTP15	5.6
	215SMTP09	5.6
90 - 105	215SMTP15	5.6
	215SMTP09	5.6
	215SMTP05	5.6
106 - 130	207SMTP15	4.3
	207SMTP09	4.3
	215SMTP05	5.6
131 - 162	207SMTP09	4.3
	215SMTP05	5.6
163 - 200	207SMTP09	4.3
	207SMTP05	4.8
201 - 215	207SMTP05	4.8
216 - 400	203SMTP05	3.8
20 HP MOTOR		
5	◆	
6 - 9	608SMTP25	8.1
	608SMTP15	8.1
10 - 14	507SMTP25	7.9
	507SMTP15	7.9
15 - 24	415SMTP25	7.1
	415SMTP15	7.1
25 - 31	407SMTP25	6.4
	407SMTP15	6.4
32 - 43	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
43 - 50	307SMTP35	6.0
	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
51 - 80	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
81 - 89	215SMTP15	5.6
	215SMTP09	5.6
90 - 130	215SMTP15	5.6
	215SMTP09	5.6
	307SMTP05	6.0
131 - 156	215SMTP09	5.6
	215SMTP05	5.6
157 - 200	207SMTP09	4.3
	215SMTP05	5.6
201 - 246	215SMTP05	5.6

Output RPM	Reducer Size	Minimum Sheave P.D.
20 HP MOTOR (Cont'd)		
247 - 327	207SMTP05	4.6
328 - 400	203SMTP05	3.8
25 HP MOTOR		
5 - 7	◆	
8 - 11	608SMTP25	8.1
	608SMTP15	8.1
12 - 18	507SMTP25	7.9
	507SMTP15	7.9
19 - 31	415SMTP25	7.1
	415SMTP15	7.1
32 - 39	407SMTP25	6.4
	407SMTP15	6.4
40 - 50	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
51 - 59	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
60 - 80	307SMTP25	6.0
	307SMTP15	6.0
	307SMTP09	6.0
81 - 89	307SMTP15	6.0
	307SMTP09	6.0
90 - 99	307SMTP15	6.0
	307SMTP09	6.0
	315SMTP05	10.1
100 - 110	307SMTP15	6.0
	307SMTP09	6.0
	307SMTP05	6.0
111 - 130	215SMTP15	5.6
	215SMTP09	5.6
	307SMTP05	6.0
131 - 182	215SMTP09	5.6
	307SMTP05	6.0
183 - 200	215SMTP09	5.6
	215SMTP05	5.6
201 - 340	215SMTP05	5.6
341 - 400	207SMTP05	4.6
30 HP MOTOR		
5 - 9	◆	
10 - 14	608SMTP25	8.1
	608SMTP15	8.1
15 - 22	507SMTP25	7.9
	507SMTP15	7.9
23 - 37	415SMTP25	7.1
	415SMTP15	7.1
38 - 48	407SMTP25	6.4
	407SMTP15	6.4
49 - 50	315SMTP35	6.4
	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
51 - 80	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
81 - 89	307SMTP15	6.0
	307SMTP09	6.0

Output RPM	Reducer Size	Minimum Sheave P.D.
30 HP MOTOR (Cont'd)		
90 - 130	307SMTP15	6.0
	307SMTP09	6.0
	315SMTP05	10.1
131 - 200	215SMTP09	5.6
	307SMTP05	6.0
201 - 240	307SMTP05	6.0
241 - 400	215SMTP05	5.6
40 HP MOTOR		
5 - 12	◆	
13 - 19	608SMTP25	8.1
	608SMTP15	8.1
20 - 30	507SMTP25	7.9
	507SMTP15	7.9
31 - 52	415SMTP25	7.1
	415SMTP15	7.1
53 - 69	407SMTP25	6.4
	407SMTP15	6.4
70 - 80	315SMTP25	6.4
	315SMTP15	6.4
	315SMTP09	6.4
81 - 89	315SMTP15	6.4
	315SMTP09	6.4
90 - 113	315SMTP15	6.4
	315SMTP09	6.4
	407SMTP05	14.9
114 - 130	307SMTP15	6.0
	307SMTP09	6.0
	407SMTP05	14.9
131 - 200	307SMTP09	6.0
	315SMTP05	9.9
201 - 372	307SMTP05	6.0
373 - 400	215SMTP05	5.6
50 HP MOTOR		
5 - 15	◆	
16 - 24	608SMTP25	8.1
	608SMTP15	8.1
25 - 38	507SMTP25	7.9
	507SMTP15	7.9
39 - 72	415SMTP25	7.1
	415SMTP15	7.1
73 - 80	407SMTP25●	6.4
	407SMTP15	6.4
81 - 89	407SMTP15	6.4
90 - 95	407SMTP15	6.4
	315SMTP09	7.1
	415SMTP05	19.5
96 - 117	315SMTP15	6.4
	315SMTP09	7.2
	415SMTP05	19.5
118 - 130	315SMTP15	6.4
	315SMTP09	7.2
	407SMTP05	15.2
131 - 155	315SMTP09	7.2
	407SMTP05	15.2
156 - 186	307SMTP09●	6.0
	407SMTP05	15.2
187 - 200	307SMTP09●	6.0
	315SMTP05	9.8
201 - 280	315SMTP05	9.8
281 - 400	307SMTP05	6.0

NOTES:
 ● Requires fan kit
 ▲ Requires pump and cooler kit
 ◆ Contact EPT Technical Services for the selection of an EPT enclosed gear drive

Output RPM	Reducer Size	Minimum Sheave P.D.
60 HP MOTOR		
5 - 19	◆	
20 - 30	608SMTP25	8.1
	608SMTP15	8.1
31 - 48	507SMTP25	7.9
	507SMTP15	7.9
49 - 80	415SMTP25	7.1
	415SMTP15	7.1
81 - 89	415SMTP15	7.1
90 - 114	407SMTP15●	6.4
	415SMTP05	19.5
115 - 123	407SMTP15●	6.4
	315SMTP09●	7.0
	415SMTP05	19.5
124 - 130	315SMTP15●	6.4
	315SMTP09●	7.0
	415SMTP05	19.5
131 - 152	315SMTP09●	7.0
	415SMTP05	19.5
153 - 200	315SMTP09●	7.0
	407SMTP05	15.0
201 - 242	407SMTP05	15.0
243 - 370	315SMTP05	9.7
371 - 400	307SMTP05	6.0
75 HP MOTOR		
5 - 24	◆	
25 - 40	608SMTP25	8.1
	608SMTP15	11.7
41 - 67	507SMTP25	7.9
	507SMTP15	7.9
68 - 80	415SMTP25●	7.1
	415SMTP15	7.1
81 - 89	415SMTP15	7.1
90 - 130	415SMTP15	7.1
	415SMTP05	20.7
131 - 159	415SMTP05	20.7
160 - 210	315SMTP09●	6.8
211 - 334	407SMTP05	14.7
335 - 400	315SMTP05	9.5
100 HP MOTOR		
5 - 35	◆	
36 - 61	608SMTP25	8.1
	608SMTP15	10.5
62 - 80	507SMTP25●	7.9
	507SMTP15	7.9
81 - 101	507SMTP15	7.9
102 - 130	415SMTP15●	7.1
131 - 168	◆	
169 - 317	415SMTP05	20.3
318 - 400	407SMTP05●	14.2
125 HP MOTOR		
5 - 50	◆	
51 - 80	608SMTP25●	8.1
	608SMTP15	9.6
81 - 84	608SMTP15	9.6
85 - 130	507SMTP15	7.9
131 - 232	◆	
233 - 400	415SMTP05●	20.1

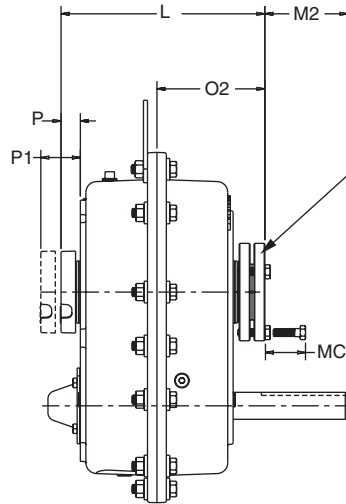
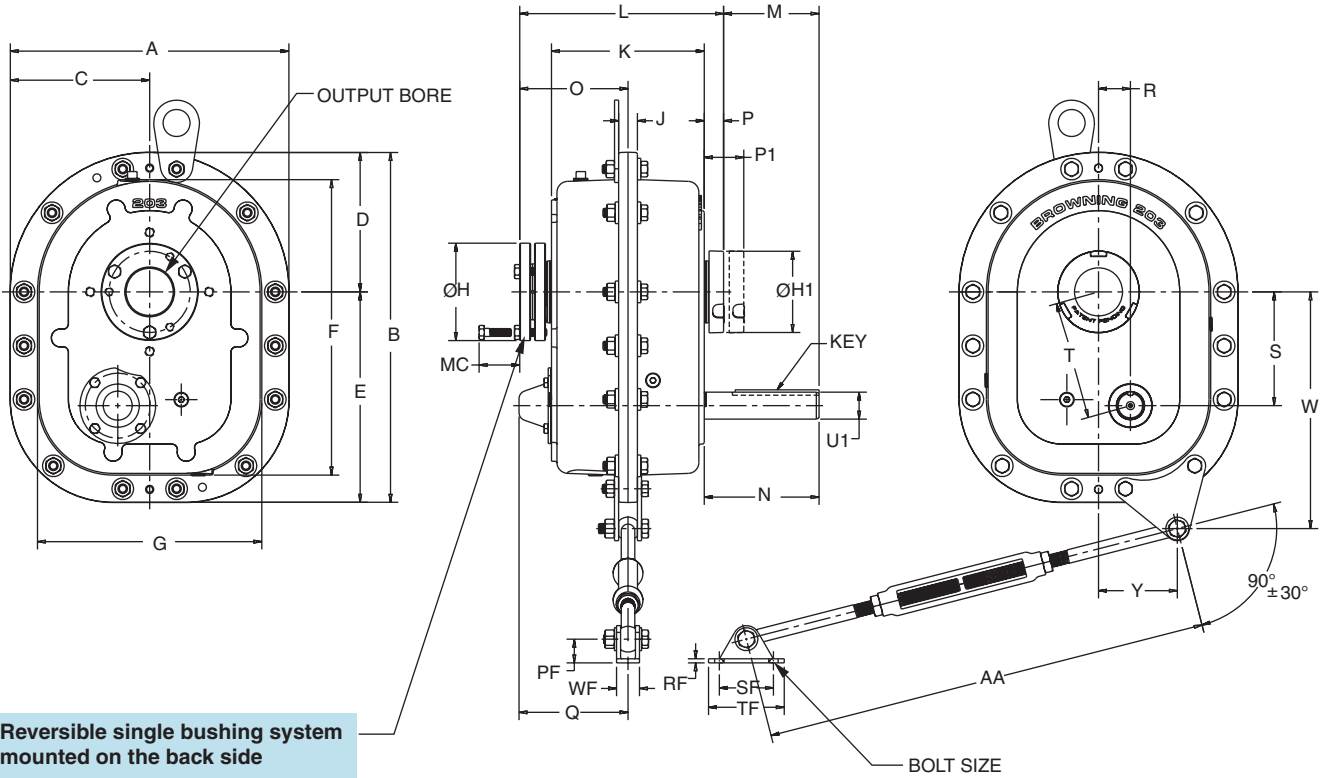
Output RPM	Reducer Size	Minimum Sheave P.D.
150 HP MOTOR		
5 - 66	◆	
67 - 80	608SMTP25●	8.1
	608SMTP15	9.0
81 - 110	608SMTP15	9.0
111 - 130	507SMTP15	7.9
131 - 302	◆	
303 - 400	415SMTP05●	19.7
200 HP MOTOR		
5 - 104	◆	
105 - 130	608SMTP15●	8.1
131 - 400	◆	
250 HP MOTOR		
5 - 400	◆	
300 HP MOTOR		
5 - 400	◆	
350 HP MOTOR		
5 - 400	◆	



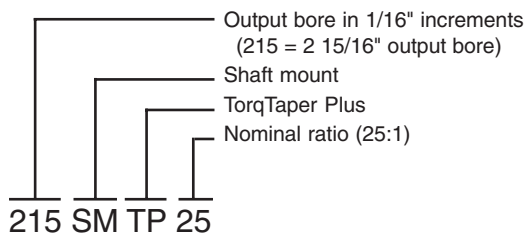
SMTP/SMFP

- NOTES:**
- Requires fan kit
 - ▲ Requires pump and cooler kit
 - ◆ Contact EPT Technical Services for the selection of an EPT enclosed gear drive

Type SMTP TorqTaper Plus Unit Sizes 107-315



Part Number Explanation



Type SMTP TorqTaper Plus Unit Sizes 107-315

Table No. 3

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	3.00	0.63
115SMTP	11.00	14.08	5.50	5.50	8.58	11.78	8.69	4.13	3.50	0.75
203SMTP	12.88	16.16	6.44	6.44	9.72	13.66	10.38	4.50	3.75	0.87
207SMTP	14.50	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	21.00	15.67	6.44	5.69	1.25
315SMTP	19.90	26.35	9.95	9.95	16.40	23.02	16.57	7.13	6.70	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	0.90	1.84
115SMTP	5.99	8.36	3.34	2.77	1.88	4.24	4.48	4.45	0.90	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	14.50	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	1.09	4.24	1.18	0.19	3.77	2.50	3.95	3.50	0.75	7.88
115SMTP	1.09	4.51	1.35	0.19	4.36	2.50	4.56	3.50	1.12	9.14
203SMTP	1.09	5.04	1.48	0.19	5.26	2.50	5.46	3.50	1.25	10.94
207SMTP	1.25	5.57	1.63	0.19	6.08	3.00	6.29	4.25	1.44	12.68
215SMTP	1.25	6.24	2.12	0.19	7.01	3.00	7.32	4.25	1.87	14.19
307SMTP	1.56	6.79	2.25	0.25	7.78	4.00	8.10	5.50	2.00	17.00
315SMTP	2.00	8.05	2.63	0.25	8.53	4.75	8.93	6.25	2.13	18.12

PART NO. ★	DIMENSIONS IN INCHES						MAX. OUTPUT BORE	WT. LBS.
	WF	Y	AA		BOLT SIZE	KEY		
			MIN.	MAX.				
107SMTP	1.06	2.73	24.00	30.00	3/8	.188 x .188 x 2.88	1 7/16	53
115SMTP	1.06	3.12	24.00	30.00	3/8	.250 x .250 x 2.75	1 15/16	75
203SMTP	1.06	3.64	24.00	30.00	3/8	.250 x .250 x 3.88	2 3/16	112
207SMTP	1.19	4.16	27.00	33.00	7/16	.375 x .375 x 3.75	2 7/16	155
215SMTP	1.19	4.65	27.00	33.00	7/16	.500 x .500 x 3.75	2 15/16	226
307SMTP	1.44	5.58	29.00	35.00	1/2	.500 x .500 x 6.50	3 7/16	367
315SMTP	2.69	6.20	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 13 for exact ratios and ratio symbols.
 Dimension "MC" is minimum clearance for bushing removal.
 Order bushings from pages 70 thru 72 for shaft size required.

SMTP/SMFP

Type SMTP TorqTaper Plus Unit Sizes 407-608

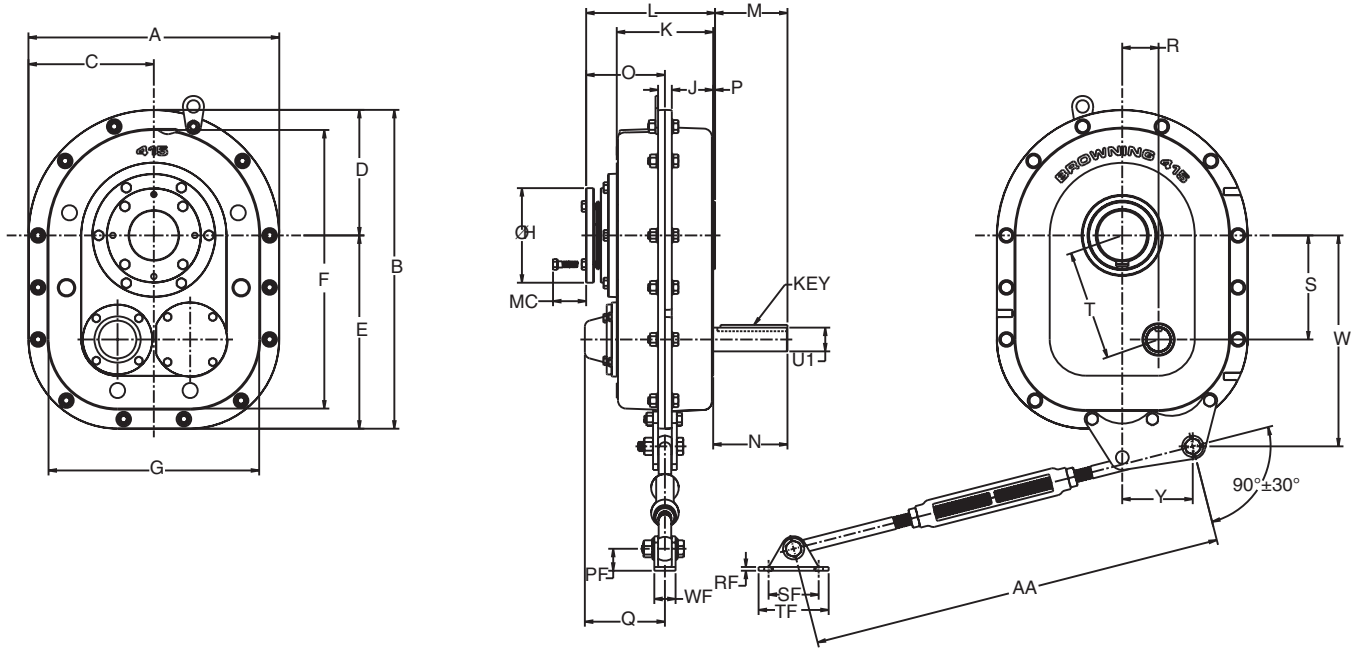
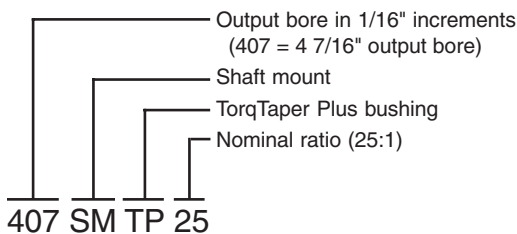


Table No. 4

PART NO. ★	DIMENSIONS IN INCHES																		
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	PF	Q	R	RF
407SMTP	21.63	27.75	10.81	10.81	16.94	24.48	18.38	7.69	1.13	7.88	10.69	5.31	5.50	6.56	0.19	2.00	7.23	3.13	0.75
415SMTP	25.00	31.75	12.50	12.50	19.25	28.00	21.25	9.44	1.38	9.63	12.81	7.81	8.00	7.81	0.19	3.00	8.00	3.63	1.38
507SMTP	28.13	35.72	14.06	14.06	21.66	31.97	24.38	9.88	1.38	10.56	14.13	7.81	8.00	8.66	0.19	3.00	8.75	4.19	1.38
608SMTP	30.19	39.53	15.09	15.09	24.44	35.78	26.44	11.56	1.38	13.63	17.56	7.81	8.00	10.56	0.19	3.00	10.94	4.25	1.38

PART NO. ★	DIMENSIONS IN INCHES								AA		BOLT SIZE	KEY	MAX. OUTPUT BORE	MC	WT. LBS.
	S	SF	T	TF	U1	W	WF	Y	MIN.	MAX.					
407SMTP	9.23	4.75	9.75	6.25	2.13	19.75	2.69	3.56	29.50	35.50	5/8	.500 x .500 x 5.00	4 7/16	2.50	450
415SMTP	10.38	7.00	11.00	8.75	2.38	21.03	4.00	7.03	28.00	34.00	3/4	.625 x .625 x 7.00	4 15/16	2.88	782
507SMTP	11.77	7.00	12.50	8.75	2.63	22.81	4.00	10.13	28.00	34.00	3/4	.625 x .625 x 7.00	5 7/16	3.25	944
608SMTP	13.61	7.00	14.25	8.75	2.69	24.88	4.00	11.38	28.00	34.00	3/4	.625 x .625 x 7.00	6 1/2	3.25	1484

Part Number Explanation



★ Complete part number by adding ratio symbol, for example, "407SMTP05".



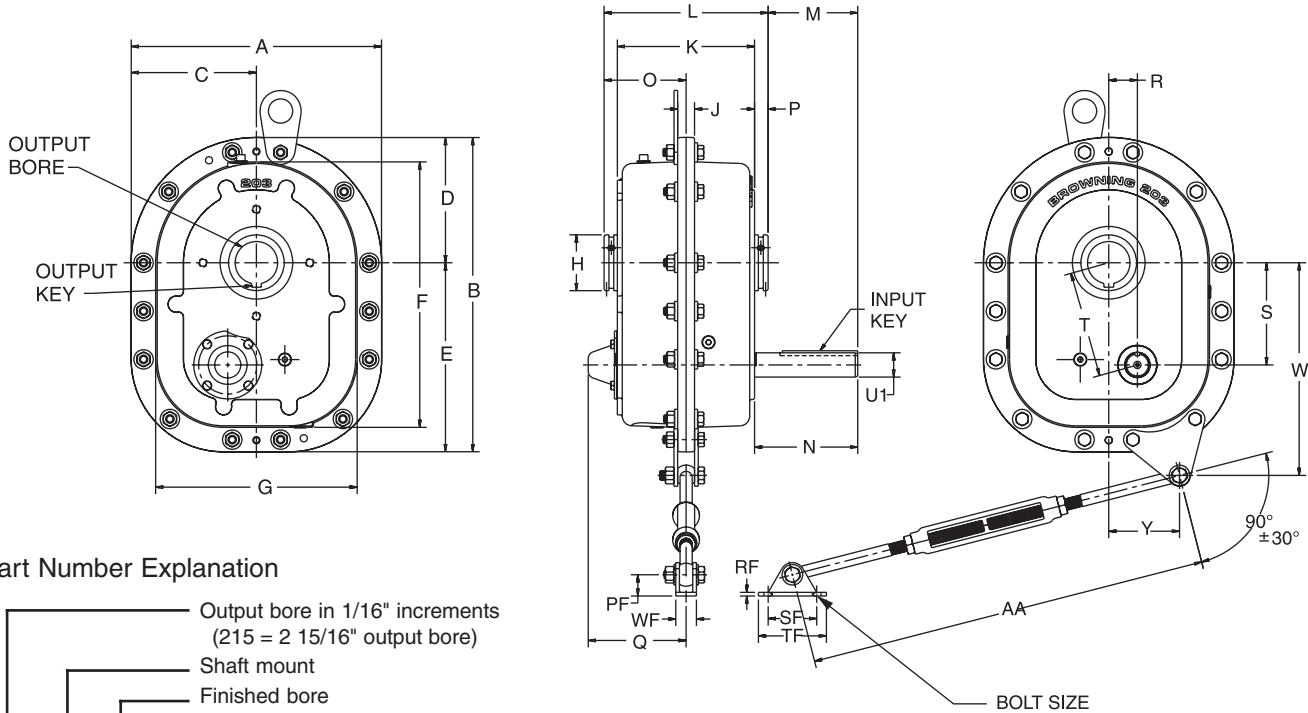
**Don't Let An
Ounce of Dirt
Stop 1,000
Tons of Rock!!**



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.

Type SMFP Finished Bore Sizes 107-315



Part Number Explanation

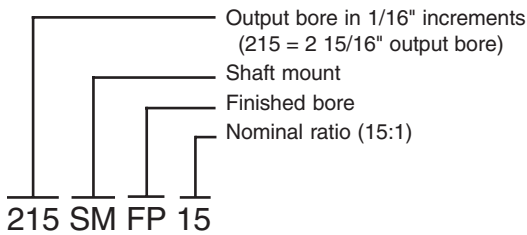


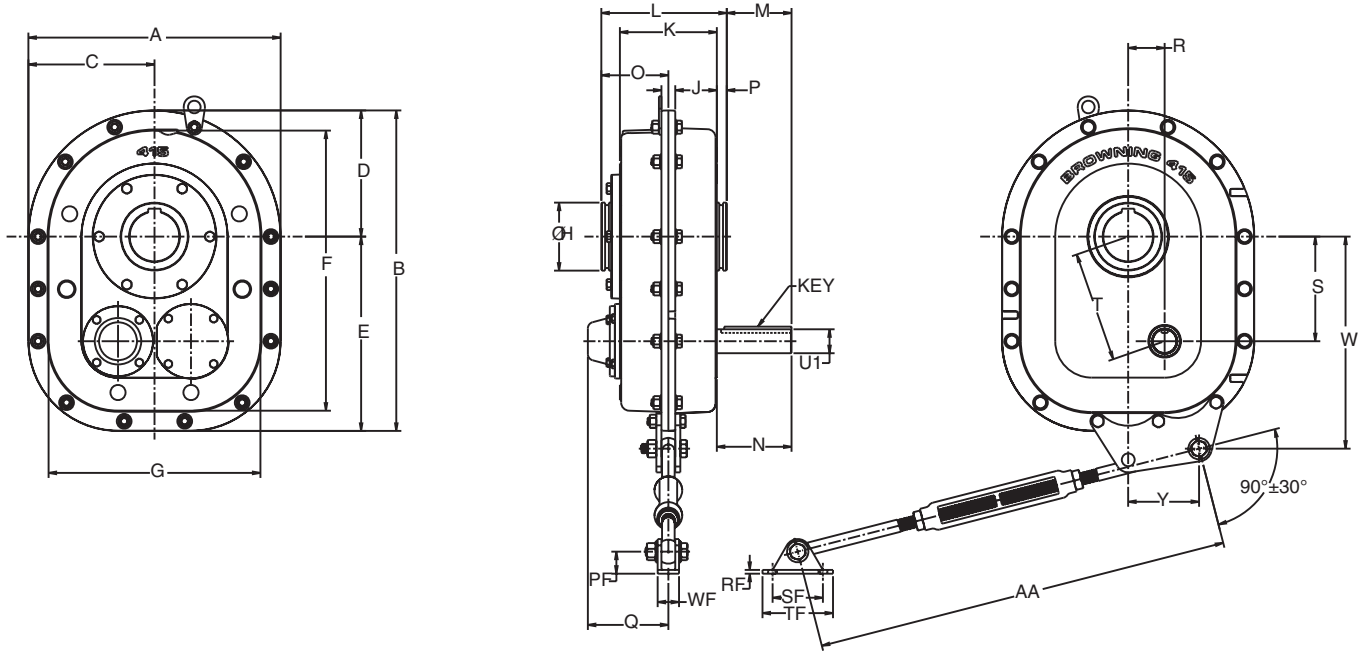
Table No. 5

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 15/16	1.000 x .250	

PART NO. ★	DIMENSIONS IN INCHES															BOLT SIZE	AA		INPUT KEY	WT. LBS.
	P	PF	Q	R	RF	S	SF	T	TF	U1	W	WF	Y	MIN.	MAX.					
	107SMFP	0.50	1.09	4.24	1.18	0.19	3.77	2.50	3.95	3.50	0.75	7.88	1.06	2.73	3/8		24	30		
115SMFP	0.57	1.09	4.51	1.35	0.19	4.36	2.50	4.56	3.50	1.13	9.14	1.06	3.12	3/8	24	30	.250 x .250 x 2.75	75		
203SMFP	0.69	1.09	5.04	1.48	0.19	5.26	2.50	5.46	3.50	1.25	10.94	1.06	3.64	3/8	24	30	.250 x .250 x 3.88	112		
207SMFP	0.69	1.25	5.57	1.63	0.19	6.08	3.00	6.29	4.25	1.44	12.68	1.19	4.16	7/16	27	33	.375 x .375 x 3.75	155		
215SMFP	1.01	1.25	6.24	2.12	0.19	7.01	3.00	7.32	4.25	1.88	14.19	1.19	4.65	7/16	27	33	.500 x .500 x 3.75	226		
307SMFP	1.22	1.56	6.79	2.25	.25	7.78	4.00	8.10	5.50	2.00	17.00	1.44	5.58	1/2	29	35	.500 x .500 x 6.50	365		
315SMFP	1.25	2.00	8.05	2.63	.25	8.53	4.75	8.93	6.25	2.13	18.12	2.69	6.20	5/8	29.5	35.5	.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 13 for exact ratios and ratio symbols.
 * If smaller shaft than the output bore is used, order bushing from page 74 and 75.

Type SMFP Finished Bore Sizes 407-608



SMTP/SMFP

Table No. 6

PART NO. ★	DIMENSIONS IN INCHES															OUTPUT BORE*	
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	DIA.	KEYWAY	
407SMFP	21.63	27.75	10.81	10.81	16.94	24.48	18.38	5.63	1.13	7.88	10.63	4.56	5.50	6.56	4.44	1 x 5/16	
415SMFP	25.00	31.75	12.50	12.50	19.25	28.00	21.25	6.75	1.38	9.63	12.46	7.02	8.00	7.81	4.94	1 1/4 x 3/8	
507SMFP	28.13	35.72	14.06	14.06	21.66	31.97	24.38	7.00	1.38	10.56	13.52	7.05	8.00	8.66	5.44	1 1/4 x 7/16	
608SMFP	30.19	39.53	15.09	15.09	24.44	35.78	26.44	9.25	1.38	13.63	16.50	7.08	8.00	10.56	6.50	1 1/2 x 3/4	

PART NO. ★	DIMENSIONS IN INCHES																WT. LBS.	
	P	PF	Q	R	RF	S	SF	T	TF	U1	W	WF	Y	AA		BOLT SIZE		INPUT KEY
	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.		MIN.		MAX.			
407SMFP	0.94	2.00	7.23	3.13	0.75	9.23	4.75	9.75	6.25	2.13	19.75	2.69	3.56	29.50	35.50	5/8	.500 x .500 x 5.00	450
415SMFP	0.98	3.00	8.00	3.63	1.38	10.38	7.00	11.00	8.75	2.38	21.03	4.00	7.03	28.00	34.00	3/4	.625 x .625 x 7.00	782
507SMFP	0.95	3.00	8.75	4.19	1.38	11.77	7.00	12.50	8.75	2.63	22.81	4.00	10.13	28.00	34.00	3/4	.625 x .625 x 7.00	944
608SMFP	0.92	3.00	10.94	4.25	1.38	13.61	7.00	14.25	8.75	2.69	24.88	4.00	11.38	28.00	34.00	3/4	.625 x .625 x 7.00	1484

★ Complete part number by adding ratio symbol, for example, "107SMFP05".
 NOTE — "05" is symbol for 5:1 nominal ratio; see page 13 for exact ratios and ratio symbols.
 * If smaller shaft than the output bore is used, order bushing from page 74 and 75.



Application Inspired... Hydraulically Driven



Browning Hydraulic TorqTaper Plus Shaft Mount Reducers

With over 25 years in developing innovative solutions for industries, Browning 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 3HP. 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 3HP 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.

THE TORQUE ARM MUST BE ORDERED SEPARATELY.

A203TAP 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 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 ½ 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 ½ HP or greater. Read up the column to determine the basic reducer size that corresponds to the design HP. For this application, a 115HMTP15 9T SAE-A 2, 115HMTP25 9T SAE-A 2, 203HMTP25 6B SAE-A 2 or a 203HMTP05 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 115HMTP15 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, 115HMTP15 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)

Table No. 7

Classification Numbers

Application	AGMA Class Numbers			Application	AGMA Class Numbers		
	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
AGITATORS (Mixers)				FANS (Cont'd)			
Pure Liquids	I	I	II	Cooling Towers	III	III	III
Liquids and Solids	I	II	II	Forced Draft	II	II	II
Liquids - Variable Density	I	II	II	Induced Draft	II	II	II
BLOWERS				Industrial & Mine	II	II	II
Centrifugal & Vane	I	I	II	FEEDERS			
Lobe	I	II	II	Apron	I	II	II
Vane	I	II	II	Belt	I	II	II
BREWING AND DISTILLING				Disc	I	I	II
Bottling Machinery	I	I	II	Reciprocating	II	III	III
Brew Kettles - Continuous Duty	II	II	II	Screw	I	II	II
Cookers - Continuous Duty	II	II	II	FOOD INDUSTRY			
Mash Tubs - Continuous Duty	II	II	II	Cereal Cooker	I	I	II
Scale Hopper - Frequent Starts	II	II	II	Dough Mixer	II	II	II
CAN FILLING MACHINES	I	I	II	Meat Grinders	II	II	II
CAR DUMPERS	II	III	III	Slicers	I	II	II
CAR PULLERS	I	II	II	GENERATORS AND EXCITERS	II	II	II
CLARIFIERS	I	I	II	HAMMER MILLS	III	III	III
CLASSIFIERS	I	II	II	HOISTS			
CLAY WORKING MACHINERY				Heavy Duty	◆	◆	◆
Brick Presses	II	III	III	Medium Duty	◆	◆	◆
Briquette Machines	II	III	III	Skip Hoist	◆	◆	◆
Pug Mills	I	II	II	LAUNDRY TUMBLERS	II	II	II
COMPACTORS	◆	◆	◆	LAUNDRY WASHERS	II	II	III
COMPRESSORS				LUMBER INDUSTRY			
Centrifugal	I	I	II	Barkers			
Lobe	I	II	II	Spindle Feed	II	II	II
Reciprocating, Multi-Cylinder	II	II	III	Main Drive	III	III	III
Reciprocating, Single-Cylinder	III	III	III	Conveyors			
CONVEYORS - GENERAL PURPOSE				Burner	II	II	II
Includes Apron, Assembly, Belt, Bucket				Main or Heavy Duty	II	II	II
Chain, Flight, Oven, and Screw				Main Log	III	III	III
Uniformly Loaded or Fed	I	I	II	Re-saw, Merry-Go-Round	II	II	II
Heavy Duty - Not Uniformly Fed	I	II	II	Slab	III	III	III
Severe Duty - Reciprocating or Shaker	II	III	III	Transfer	II	II	II
CRANES				Chains			
Dry Dock				Floor	II	II	II
Main Hoist	◆	◆	◆	Green	II	II	III
Auxiliary Hoist	◆	◆	◆	Cut-Off-Saws			
Boom Hoist	◆	◆	◆	Chain	II	II	III
Slewing Drive	◆	◆	◆	Drag	II	II	III
Traction Drive	◆	◆	◆	Debarking Drums	III	III	III
Container				Feeds			
Main Hoist	◆	◆	◆	Edger	II	II	II
Boom Hoist	◆	◆	◆	Gang	II	III	III
Trolley Drive				Trimmer	II	II	II
Gantry Drive	◆	◆	◆	Log Deck	III	III	III
Traction Drive	◆	◆	◆	Log Hauls - Incline - Well Type	III	III	III
Mill Duty				Log Turning Devices	III	III	III
Main Hoist	◆	◆	◆	Planer Feed	II	II	II
Auxiliary	◆	◆	◆	Planer Tilting Hoists	II	II	II
Bridge Travel	◆	◆	◆	Rolls - Live-Off Brg - Roll Cases	III	III	III
Trolley Travel	◆	◆	◆	Sorting Table	II	II	II
Industrial Duty				Tipple Hoist	II	II	II
Main	◆	◆	◆	Transfer			
Auxiliary	◆	◆	◆	Chain	II	II	III
Bridge Travel	◆	◆	◆	Craneway	II	II	III
Trolley Travel	◆	◆	◆	Tray Drives	II	II	II
CRUSHERS				Veneer Lathe Drives	II	II	II
Stone or Ore	III	III	III	METAL MILLS			
DREDGES				Draw Bench Carriage and Main Drive	II	II	II
Cable Reels	II	II	II	Runout Table			
Conveyors	II	II	II	Non-Reversing			
Cutter Head Drives	III	III	III	Group Drives	II	II	II
Pumps	III	III	III	Individual Drives	III	III	III
Screen Drives	III	III	III	Reversing	III	III	III
Stackers	II	II	II	Slab Pushers	II	II	II
Winches	II	II	II	Shears	III	III	III
ELEVATORS				Wire Drawing	II	II	II
Bucket	I	II	II	Wire Winding Machine	II	II	II
Centrifugal Discharge	I	I	II	METAL STRIP PROCESSING MACHINERY			
Escalators	I	I	II	Bridges	II	II	II
Freight	I	II	II	Collers & Uncoilers	I	I	II
Gravity Discharge	I	I	II	Edge Trimmers	I	II	II
EXTRUDERS				Flatteners	II	II	II
General	II	II	II	Loopers (Accumulators)	I	I	I
Plastics				Pinch Rolls	II	II	II
Variable Speed Drive	III	III	III	Scrap Choppers	II	II	II
Fixed Speed Drive	III	III	III	Shears	III	III	III
Rubber				Slitters	I	II	II
Continuous Screw Operation	III	III	III	MILLS, ROTARY TYPE			
Intermittent Screw Operation	III	III	III	Ball & Rod			
FANS				Spur Ring Gear	III	III	III
Centrifugal	I	I	II	Helical Ring Gear	II	II	II
				Direct Connected	III	III	III

Table No. 7 (Continued)

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 Table No. 7 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 EPT Technical Services for the selection of an AGMA Class Numbers in these applications.

HMTP



HMTP Selection Chart

Class I Service (1.0 S.F.)



Involute Spline Input

Single Reduction										
Output RPM	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



HMTP Selection Chart

Class I Service (1.0 S.F.)



Involute Spline Input

Double Reduction														
Output RPM	107HMTP15 9T SAE-A2		107HMTP25 9T SAE-A2		115HMTP15 9T SAE-A2		115HMTP25 9T SAE-A2		203HMTP15 13T SAE-B2		203HMTP25 9T SAE-A2		207HMTP15 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	207HMTP25 13T SAE-B2		215HMTP15 14T SAE-C4		215HMTP25 13T SAE-B2		307HMTP15 914 SAE-C4		307HMTP25 14T SAE-C4		315HMTP15 14T SAE-C4		315HMTP25 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



HMTP Selection Chart

Class I Service (1.0 S.F.)



Straight Sided Spline Input

Single Reduction										
Output RPM	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



HMTP Selection Chart

Class I Service (1.0 S.F.)



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



HMTP Selection Chart

Class II Service (1.4 S.F.)



Involute Spline Input

Single Reduction										
Output RPM	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	14.82	2,961	20.09	4,079	29.46	5,983	36.00	7,311
310	7.57	1,488	14.82	2,865	20.09	3,948	30.14	5,924	36.00	7,075
320	7.73	1,472	14.82	2,776	20.09	3,825	30.81	5,866	36.00	6,854
330	7.90	1,458	14.82	2,692	20.09	3,709	31.45	5,807	36.00	6,646
340	8.06	1,444	14.82	2,613	20.09	3,600	31.50	5,644	36.00	6,451
350	8.22	1,431	14.82	2,538	20.09	3,497	31.50	5,483	36.00	6,266
360	8.38	1,418	14.82	2,467	20.09	3,400	31.50	5,331	36.00	6,092
370	8.53	1,405	14.82	2,401	20.09	3,308	31.50	5,187	36.00	5,928
380	8.69	1,393	14.82	2,338	20.09	3,221	31.50	5,050	36.00	5,772
390	8.85	1,382	14.82	2,278	20.09	3,138	31.50	4,921	36.00	5,624
400	9.00	1,371	14.82	2,221	20.09	3,060	31.50	4,798	36.00	5,483



HMTP Selection Chart

Class II Service (1.4 S.F.)



Involute Spline Input

Double Reduction														
Output RPM	107HMTP15 9T SAE-A2		107HMTP25 9T SAE-A2		115HMTP15 9T SAE-A2		115HMTP25 9T SAE-A2		203HMTP15 13T SAE-B2		203HMTP25 9T SAE-A2		207HMTP15 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	207HMTP25 13T SAE-B2		215HMTP15 14T SAE-C4		215HMTP25 13T SAE-B2		307HMTP15 914 SAE-C4		307HMTP25 14T SAE-C4		315HMTP15 14T SAE-C4		315HMTP25 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



HMTP Selection Chart

Class II Service (1.4 S.F.)



Straight Sided Spline Input

Single Reduction										
Output RPM	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	14.82	2,961	20.09	4,079	29.46	5,983	36.00	7,311
310	7.57	1,488	14.82	2,865	20.09	3,948	30.14	5,924	36.00	7,075
320	7.73	1,472	14.82	2,776	20.09	3,825	30.81	5,866	36.00	6,854
330	7.90	1,458	14.82	2,692	20.09	3,709	31.45	5,807	36.00	6,646
340	8.06	1,444	14.82	2,613	20.09	3,600	31.50	5,644	36.00	6,451
350	8.22	1,431	14.82	2,538	20.09	3,497	31.50	5,483	36.00	6,266
360	8.38	1,418	14.82	2,467	20.09	3,400	31.50	5,331	36.00	6,092
370	8.53	1,405	14.82	2,401	20.09	3,308	31.50	5,187	36.00	5,928
380	8.69	1,393	14.82	2,338	20.09	3,221	31.50	5,050	36.00	5,772
390	8.85	1,382	14.82	2,278	20.09	3,138	31.50	4,921	36.00	5,624
400	9.00	1,371	14.82	2,221	20.09	3,060	31.50	4,798	36.00	5,483



HMTP Selection Chart

Class II Service (1.4 S.F.)



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	0.14	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



HMTP Selection Chart

Class III Service (2.0 S.F.)



Involute Spline Input

Single Reduction										
Output RPM	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



HMTP Selection Chart

Class III Service (2.0 S.F.)



Involute Spline Input

Double Reduction														
Output RPM	107HMTP15 9T SAE-A2		107HMTP25 9T SAE-A2		115HMTP15 9T SAE-A2		115HMTP25 9T SAE-A2		203HMTP15 13T SAE-B2		203HMTP25 9T SAE-A2		207HMTP15 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	207HMTP25 13T SAE-B2		215HMTP15 14T SAE-C4		215HMTP25 13T SAE-B2		307HMTP15 914 SAE-C4		307HMTP25 14T SAE-C4		315HMTP15 14T SAE-C4		315HMTP25 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



HMTP Selection Chart

Class III Service (2.0 S.F.)



Straight Sided Spline Input

Single Reduction										
Output RPM	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



HMTP Selection Chart

Class III Service (2.0 S.F.)



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	0.09	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

Type HMTP TorqTaper Plus Unit Sizes 107-315

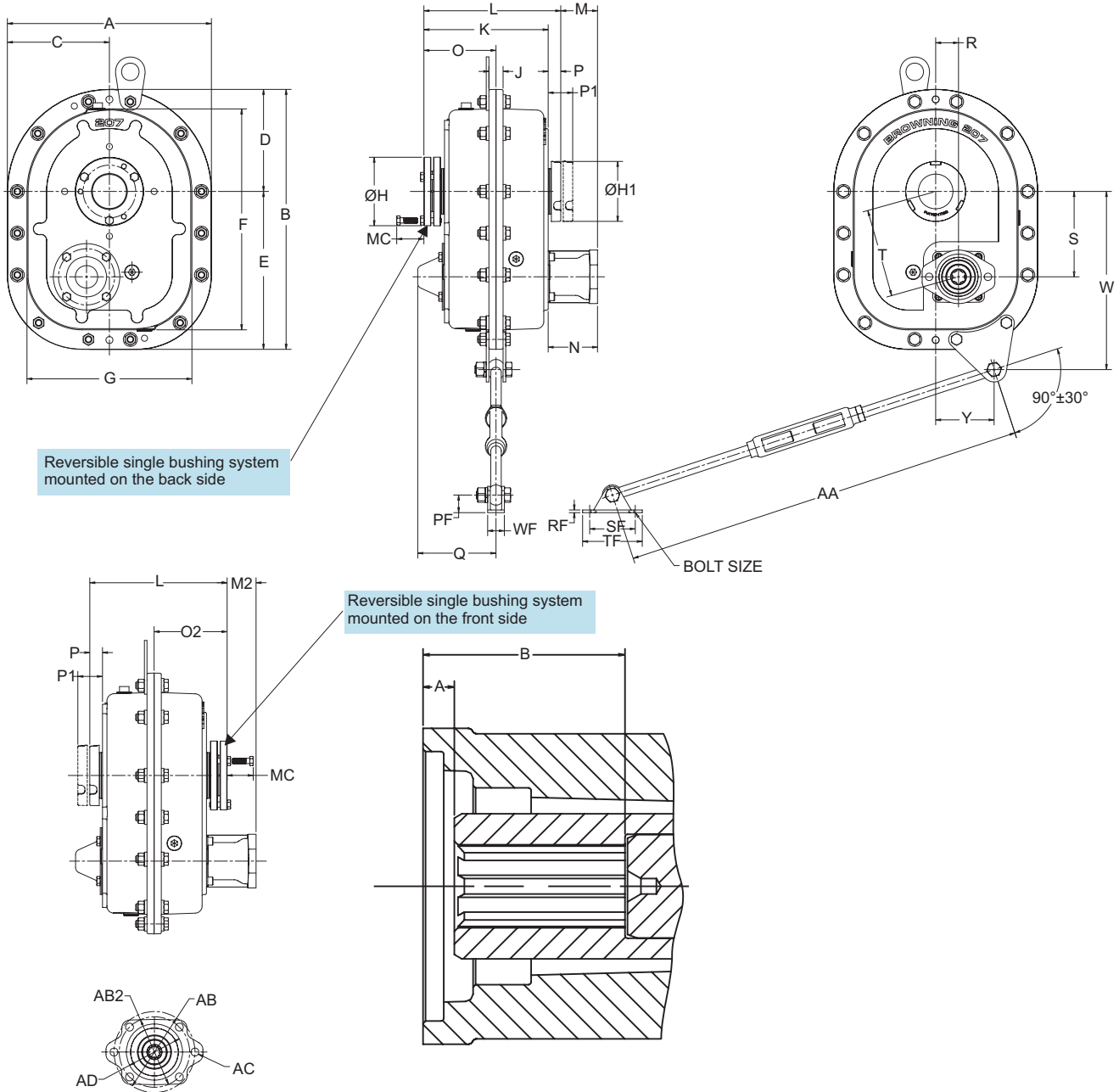


Table No. 8

UNIT NO.	HYDRAULIC MOTOR MOUNTING STYLES							
	6B		9T		13T		14T	
	A	B	A	B	A	B	A	B
107	0.78	2.38	0.58	1.89	-	-	-	-
115	0.76	2.36	0.56	1.87	0.90	2.15	-	-
203	0.81	2.37	0.67	1.98	0.87	2.12	1.15	2.92
207	0.85	2.41	-	-	0.91	2.16	1.14	2.91
215	0.64	2.39	-	-	0.85	2.10	1.05	2.94
307	0.68	2.43	-	-	-	-	1.09	2.98
315	0.75	2.50	-	-	-	-	1.16	3.05

Type HMTP TorqTaper Plus Unit Sizes 107-315

Table No. 9

PART NO.	DIMENSIONS IN INCHES																	
	A	B	C	D	E	F	G	H	H1	J	K	L	MC	O	O2	P	P1	PF
107HMTP	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	1.09
115HMTP	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	1.09
203HMTP	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	1.09
207HMTP	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	1.25
215HMTP	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	1.25
307HMTP	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	1.56
315HMTP	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	2.00

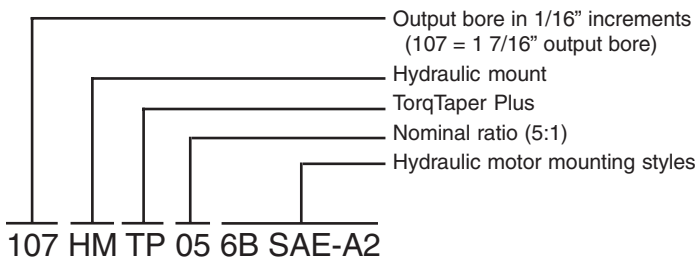
PART NO.	DIMENSIONS IN INCHES														BOLT SIZE	MAX. OUTPUT BORE	WT. LBS.
	Q	R	RF	S	SF	T	TF	W	WF	Y	AA						
	MIN.		MAX.														
107HMTP	4.24	1.18	0.19	3.77	2.50	3.95	3.50	7.88	1.06	2.73	24.00	30.00	3/8	1 7/16	58		
115HMTP	4.51	1.35	0.19	4.36	2.50	4.56	3.50	9.14	1.06	3.12	24.00	30.00	3/8	1 15/16	79		
203HMTP	5.04	1.48	0.19	5.26	2.50	5.46	3.50	10.94	1.06	3.64	24.00	30.00	3/8	2 3/16	120		
207HMTP	5.57	1.63	0.19	6.08	3.00	6.29	4.25	12.68	1.19	4.16	27.00	33.00	7/16	2 7/16	162		
215HMTP	6.24	2.12	0.19	7.01	3.00	7.32	4.25	14.19	1.19	4.65	27.00	33.00	7/16	2 15/16	234		
307HMTP	6.79	2.25	0.25	7.78	4.00	8.10	5.50	17.00	1.44	5.58	29.00	35.00	1/2	3 7/16	365		
315HMTP	8.05	2.63	0.25	8.53	4.75	8.93	6.25	18.12	2.69	6.20	29.50	35.50	5/8	3 15/16	473		

Table No. 10

PART NO.	DIMENSIONS IN INCHES										SPLINE DATA ★		
	M	M2	N	AB	AB2	AC	AD	NT	DP	OD			
	107HMTP 6B SAE-A2	2.18	1.60	3.08	4.19	-	0.50	3.25	6	-	1.00		
107HMTP 9T SAE-A2	2.18	1.60	3.08	4.19	-	0.38	3.25	9	16/32	0.69			
107HMTP 13T SAE-B2	2.66	2.08	3.56	5.75	5.00	0.50	4.00	13	16/32	0.94			
115HMTP 6B SAE-A2	2.18	1.60	3.08	4.19	-	0.50	3.25	6	-	1.00			
115HMTP 9T SAE-A2	2.18	1.60	3.08	4.19	-	0.38	3.25	9	16/32	0.69			
115HMTP 13T SAE-B2	2.66	2.08	3.56	5.75	5.00	0.50	4.00	13	16/32	0.94			
203HMTP 6B SAE-A2	2.68	2.14	3.58	4.19	-	0.50	3.25	6	-	1.00			
203HMTP 9T SAE-A2	2.68	2.14	3.58	4.19	-	0.38	3.25	9	16/32	0.69			
203HMTP 13T SAE-B2	2.87	2.33	3.77	5.75	5.00	0.50	4.00	13	16/32	0.94			
203HMTP 14T SAE-C4	3.18	2.64	4.08	6.38	-	0.50	5.00	14	12/24	1.34			
207HMTP 6B SAE-A2	2.62	2.07	3.52	4.19	-	0.50	3.25	6	-	1.00			
207HMTP 13T SAE-B2	2.81	2.26	3.71	5.75	5.00	0.50	4.00	13	16/32	0.94			
207HMTP 14T SAE-C4	3.12	2.57	4.02	6.38	-	0.50	5.00	14	12/24	1.34			
215HMTP 6B SAE-A2	2.69	2.12	3.72	4.19	-	0.50	3.25	6	-	1.00			
215HMTP 13T SAE-B2	2.68	2.11	3.71	5.75	5.00	0.50	4.00	13	15/32	0.94			
215HMTP 14T SAE-C4	3.24	2.67	4.27	6.38	-	0.50	5.00	14	12/24	1.34			
307HMTP 6B SAE-A2	2.29	1.67	3.65	4.19	-	0.50	3.25	6	-	1.00			
307HMTP 14T SAE-C4	2.84	2.22	4.20	6.38	-	0.50	5.00	14	12/24	1.34			
315HMTP 6B SAE-A2	1.92	1.29	3.65	4.19	-	0.50	3.25	6	-	1.00			
315HMTP 14T SAE-C4	2.47	1.84	4.20	6.38	-	0.50	5.00	14	12/24	1.34			

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

Part Number Explanation



HMTP

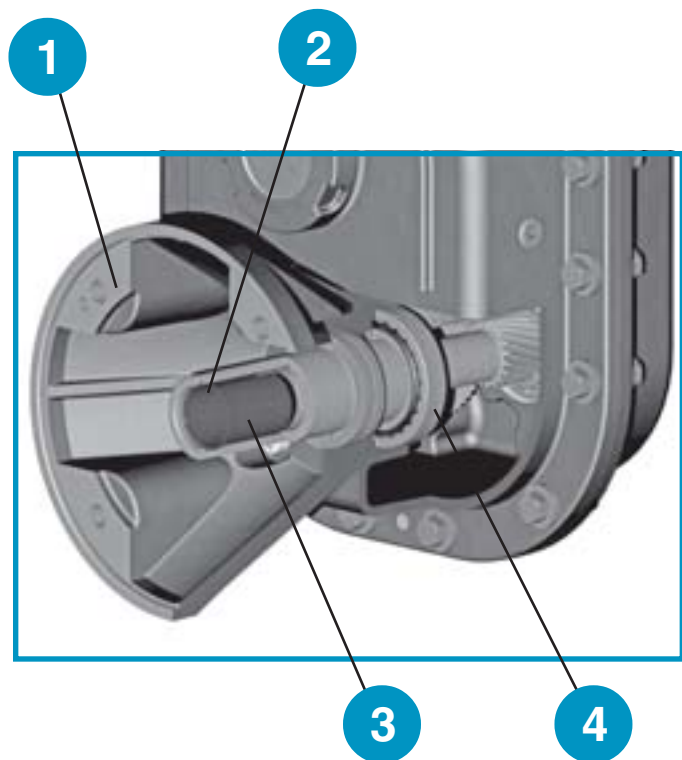
Innovative EPT C-Face Motor Connections



Browning C-Face TorqTaper Plus Shaft Mount Reducers

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 EPT 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 — eliminates shaft wobble and increases seal life



Selection and 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 20HP. 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 TORQUE ARM MUST BE ORDERED SEPARATELY.**

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

3. List Components

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

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.

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 5HP 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 115CMTP05, 115CMTP09, 115CMTP15 or a 115CMTP25 may be used. For this example, select a 115CMTP25. 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 *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 115CMTP25 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, 115CMTP25 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)

Table No. 11

Classification Numbers

Application	AGMA Class Numbers			Application	AGMA Class Numbers		
	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
AGITATORS (Mixers)				FANS (Cont'd)			
Pure Liquids	I	I	II	Cooling Towers	III	III	III
Liquids and Solids	I	II	II	Forced Draft	II	II	II
Liquids - Variable Density	I	II	II	Induced Draft	II	II	II
BLOWERS				Industrial & Mine	II	II	II
Centrifugal & Vane	I	II	II	FEEDERS			
Lobe	I	II	II	Apron	I	II	II
Vane	I	II	II	Belt	I	II	II
BREWING AND DISTILLING				Disc	I	I	II
Bottling Machinery	I	I	II	Reciprocating	II	III	III
Brew Kettles - Continuous Duty	II	II	II	Screw	I	II	II
Cookers - Continuous Duty	II	II	II	FOOD INDUSTRY			
Mash Tubs - Continuous Duty	II	II	II	Cereal Cooker	I	I	II
Scale Hopper - Frequent Starts	II	II	II	Dough Mixer	II	II	II
CAN FILLING MACHINES	I	I	II	Meat Grinders	II	II	II
CAR DUMPERS	II	III	III	Slicers	I	II	II
CAR PULLERS	I	II	II	GENERATORS AND EXCITERS	II	II	II
CLARIFIERS	I	I	II	HAMMER MILLS	III	III	III
CLASSIFIERS	I	II	II	HOISTS			
CLAY WORKING MACHINERY				Heavy Duty	◆	◆	◆
Brick Presses	II	III	III	Medium Duty	◆	◆	◆
Briquette Machines	II	III	III	Skip Hoist	◆	◆	◆
Pug Mills	I	II	II	LAUNDRY TUMBLERS	II	II	II
COMPACTORS	◆	◆	◆	LAUNDRY WASHERS	II	II	III
COMPRESSORS				LUMBER INDUSTRY			
Centrifugal	I	I	II	Barkers			
Lobe	I	II	II	Spindle Feed	II	II	II
Reciprocating, Multi-Cylinder	II	II	III	Main Drive	III	III	III
Reciprocating, Single-Cylinder	III	III	III	Conveyors			
CONVEYORS - GENERAL PURPOSE				Burner	II	II	II
Includes Apron, Assembly, Belt, Bucket				Main or Heavy Duty	II	II	II
Chain, Flight, Oven, and Screw				Main Log	III	III	III
Uniformly Loaded or Fed	I	I	II	Re-saw, Merry-Go-Round	II	II	II
Heavy Duty - Not Uniformly Fed	I	II	II	Slab	III	III	III
Severe Duty - Reciprocating or Shaker	II	III	III	Transfer	II	II	II
CRANES				Chains			
Dry Dock				Floor	II	II	II
Main Hoist	◆	◆	◆	Green	II	II	III
Auxiliary Hoist	◆	◆	◆	Cut-Off-Saws			
Boom Hoist	◆	◆	◆	Chain	II	II	III
Slewing Drive	◆	◆	◆	Drag	II	II	III
Traction Drive	◆	◆	◆	Debarking Drums	III	III	III
Container				Feeds			
Main Hoist	◆	◆	◆	Edger	II	II	II
Boom Hoist	◆	◆	◆	Gang	II	III	III
Trolley Drive				Trimmer	II	II	II
Gantry Drive	◆	◆	◆	Log Deck	III	III	III
Traction Drive	◆	◆	◆	Log Hauls - Incline - Well Type	III	III	III
Mill Duty				Log Turning Devices	III	III	III
Main Hoist	◆	◆	◆	Planer Feed	II	II	II
Auxiliary	◆	◆	◆	Planer Tilting Hoists	II	II	II
Bridge Travel	◆	◆	◆	Rolls - Live-Off Brg - Roll Cases	III	III	III
Trolley Travel	◆	◆	◆	Sorting Table	II	II	II
Industrial Duty				Tipple Hoist	II	II	II
Main	◆	◆	◆	Transfer			
Auxiliary	◆	◆	◆	Chain	II	II	III
Bridge Travel	◆	◆	◆	Craneway	II	II	III
Trolley Travel	◆	◆	◆	Tray Drives	II	II	II
CRUSHERS				Veneer Lathe Drives	II	II	II
Stone or Ore	III	III	III	METAL MILLS			
DREDGES				Draw Bench Carriage and Main Drive	II	II	II
Cable Reels	II	II	II	Runout Table			
Conveyors	II	II	II	Non-Reversing			
Cutter Head Drives	III	III	III	Group Drives	II	II	II
Pumps	III	III	III	Individual Drives	III	III	III
Screen Drives	III	III	III	Reversing	III	III	III
Stackers	II	II	II	Slab Pushers	II	II	II
Winches	II	II	II	Shears	III	III	III
ELEVATORS				Wire Drawing	II	II	II
Bucket	I	II	II	Wire Winding Machine	II	II	II
Centrifugal Discharge	I	I	II	METAL STRIP PROCESSING MACHINERY			
Escalators	I	I	II	Bridges	II	II	II
Freight	I	II	II	Collers & Uncoilers	I	I	II
Gravity Discharge	I	I	II	Edge Trimmers	I	II	II
EXTRUDERS				Flatteners	II	II	II
General	II	II	II	Loopers (Accumulators)	I	I	I
Plastics				Pinch Rolls	II	II	III
Variable Speed Drive	III	III	III	Scrap Choppers	II	II	II
Fixed Speed Drive	III	III	III	Shears	III	III	III
Rubber				Slitters	I	II	II
Continuous Screw Operation	III	III	III	MILLS, ROTARY TYPE			
Intermittent Screw Operation	III	III	III	Ball & Rod			
FANS				Spur Ring Gear	III	III	III
Centrifugal	I	I	II	Helical Ring Gear	II	II	II
				Direct Connected	III	III	III

Table No. 11 (Continued)

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 Table No. 11 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 EPT Technical Services for the selection of an AGMA Class Numbers in these applications.



CMTF Selection Chart

Class I Service (1.0 S.F.)



Single Reduction														
Output RPM	10TCMTF05		115CMTF05		203CMTF05		207CMTF05		215CMTF05		307CMTF05		315CMTF05	
	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



CMTF Selection Chart

Class I Service (1.0 S.F.)



Double Reduction														
Output RPM	107CMTF09 107CMTF15 107CMTF25 107CMTF35		115CMTF09 115CMTF15 115CMTF25 115CMTF35		203CMTF09 203CMTF15 203CMTF25 203CMTF35		207CMTF09 207CMTF15 203CMTF25 203CMTF35		215CMTF09 215CMTF15 215CMTF25 215CMTF35		307CMTF09 307CMTF15 307CMTF25 307CMTF35		315CMTF09 315CMTF15 315CMTF25 315CMTF35	
	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

CMTF



CMT Selection Chart

Class II Service (1.4 S.F.)



Single Reduction														
Output RPM	10TCMTP05		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



CMTF Selection Chart

Class II Service (1.4 S.F.)



Double Reduction														
Output RPM	107CMTF09 107CMTF15 107CMTF25 107CMTF35		115CMTF09 115CMTF15 115CMTF25 115CMTF35		203CMTF09 203CMTF15 203CMTF25 203CMTF35		207CMTF09 207CMTF15 203CMTF25 203CMTF35		215CMTF09 215CMTF15 215CMTF25 215CMTF35		307CMTF09 307CMTF15 307CMTF25 307CMTF35		315CMTF09 315CMTF15 315CMTF25 315CMTF35	
	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



CMT Selection Chart

Class III Service (2.0 S.F.)



Single Reduction														
Output RPM	10TCMTP05		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



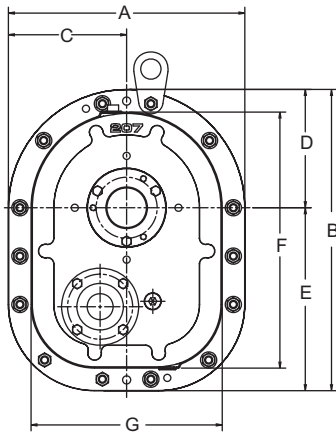
CMTF Selection Chart

Class III Service (2.0 S.F.)

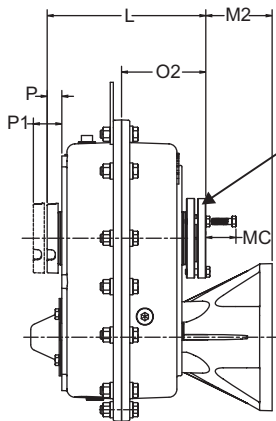
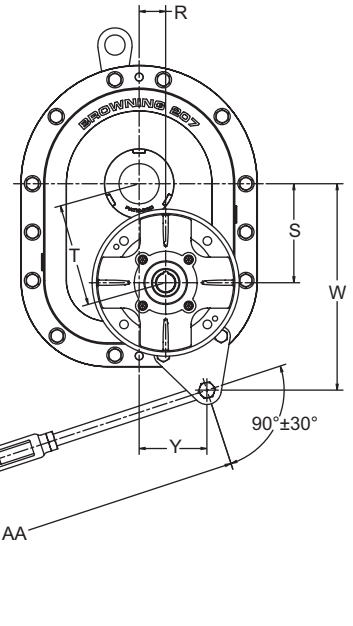
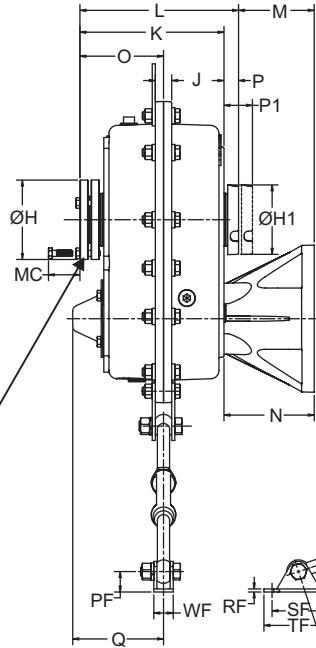


Double Reduction														
Output RPM	107CMTF09 107CMTF15 107CMTF25 107CMTF35		115CMTF09 115CMTF15 115CMTF25 115CMTF35		203CMTF09 203CMTF15 203CMTF25 203CMTF35		207CMTF09 207CMTF15 203CMTF25 203CMTF35		215CMTF09 215CMTF15 215CMTF25 215CMTF35		307CMTF09 307CMTF15 307CMTF25 307CMTF35		315CMTF09 315CMTF15 315CMTF25 315CMTF35	
	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

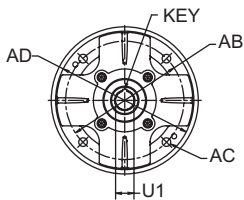
Type CMTF TorqTaper Plus Unit Sizes 107-315



Reversible single bushing system mounted on the back side



Reversible single bushing system mounted on the front side



Type CMTP TorqTaper Plus Unit Sizes 107-315

Table No. 12

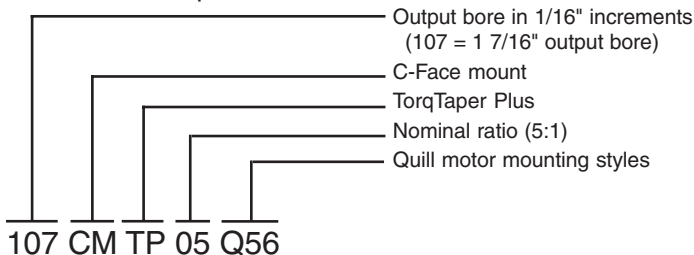
PART NO.	DIMENSIONS IN INCHES																			
	A	B	C	D	E	F	G	H	H1	J	K	L	M	M2	MC	N	O	P	P1	PF
107CMTP	9.76	12.07	4.88	4.88	7.19	10.07	7.75	3.25	3.00	0.63	5.52	7.89	3.18	2.61	1.75	4.08	4.25	0.90	1.84	1.09
115CMTP	11.00	14.08	5.50	5.50	8.58	11.78	8.69	4.13	3.50	0.75	5.99	8.36	3.34	2.77	1.88	4.24	4.48	0.90	1.83	1.09
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	1.09
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	1.25
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	1.25
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	1.56
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	2.00

PART NO.	DIMENSIONS IN INCHES																	MAX. OUTPUT BORE	WT. LBS.
	Q	R	RF	S	SF	T	TF	U1	W	WF	Y	AA		BOLT SIZE	KEY				
												MIN.	MAX.						
107CMTP	4.34	1.18	0.19	3.77	2.50	3.95	3.50	0.75	7.88	1.06	2.73	24.00	30.00	3/8	.188 x .188 x 2.88	1 7/16	61		
115CMTP	4.51	1.35	0.19	4.36	2.50	4.56	3.50	1.13	9.14	1.06	3.12	24.00	30.00	3/8	.250 x .250 x 2.75	1 15/16	92		
203CMTP	5.04	1.48	0.19	5.26	2.50	5.46	3.50	1.25	10.94	1.06	3.64	24.00	30.00	3/8	.250 x .250 x 2.75	2 3/16	130		
207CMTP	5.57	1.63	0.19	6.08	3.00	6.29	4.25	1.44	12.68	1.19	4.16	27.00	33.00	7/16	.375 x .375 x 3.75	2 7/16	171		
215CMTP	6.24	2.12	0.19	7.01	3.00	7.32	4.25	1.88	14.19	1.19	4.65	27.00	33.00	7/16	.500 x .500 x 3.75	2 15/16	250		
307CMTP	6.79	2.25	0.25	7.78	4.00	8.10	5.50	2.00	17.00	1.44	5.58	29.00	35.00	1/2	.500 x .500 x 6.50	3 7/16	381		
315CMTP	8.05	2.63	0.25	8.53	4.75	8.93	6.25	2.13	18.12	2.69	6.20	29.50	35.50	5/8	.500 x .500 x 7.50	3 15/16	490		

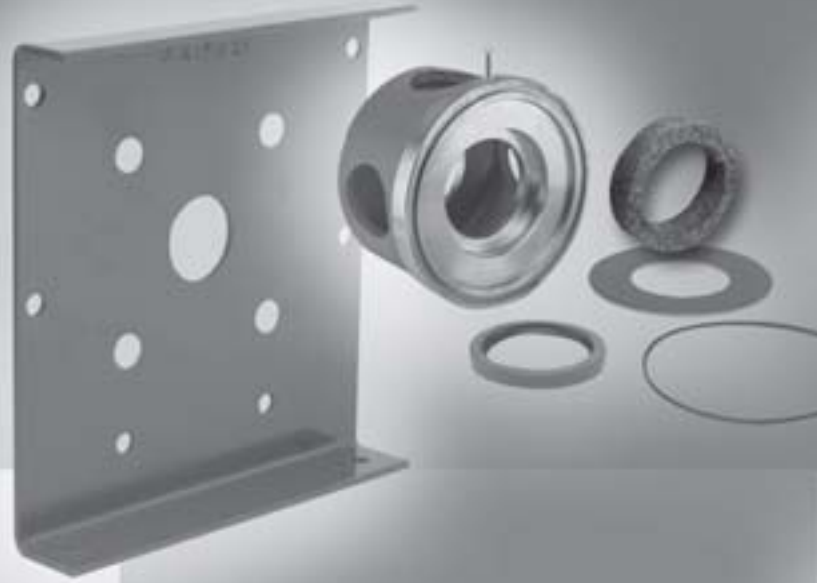
Table No. 13

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	1.84	3.32	4.45	0.63	0.188	5.88	0.38	4.50
115CMTP Q140	2.41	1.84	3.32	4.45	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	4.16	5.61	4.99	1.13	0.250	7.25	0.50	8.50
203CMTP Q210	4.71	4.16	5.61	4.99	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.



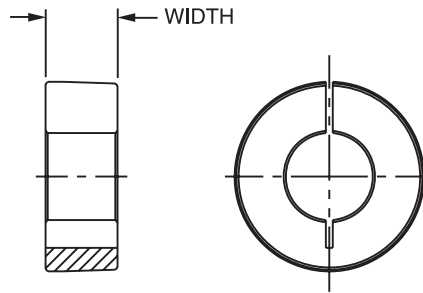


Check Out These Options for TorqTaper Plus Reducers

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. Motor mount kits



TorqTaper Plus Bushing Kits Unit Sizes 107-115



STABILIZER RING

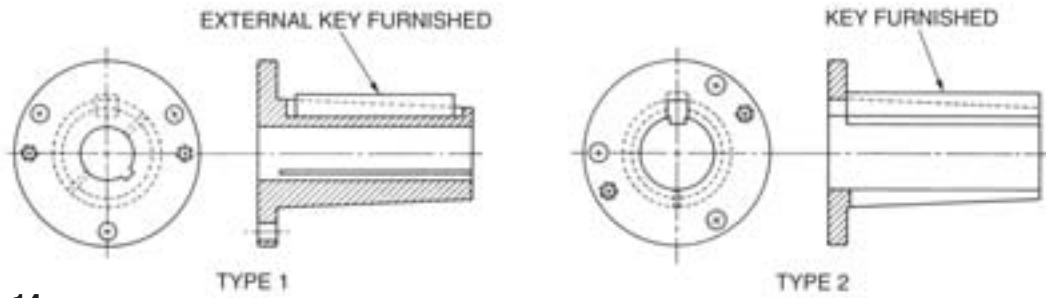


Table No. 14

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

Table No. 14 (Continued)

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

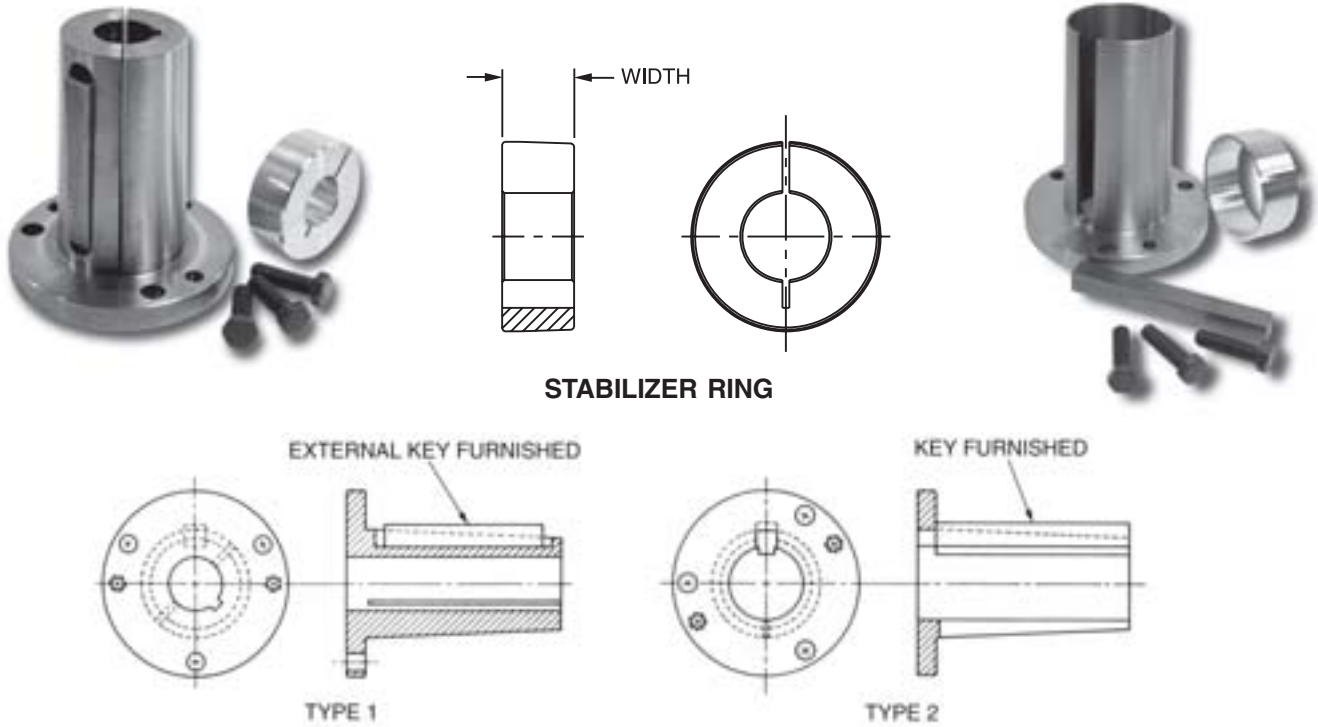


Table No. 15

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

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.

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

TorqTaper Plus Bushing Kits Unit Sizes 407-608

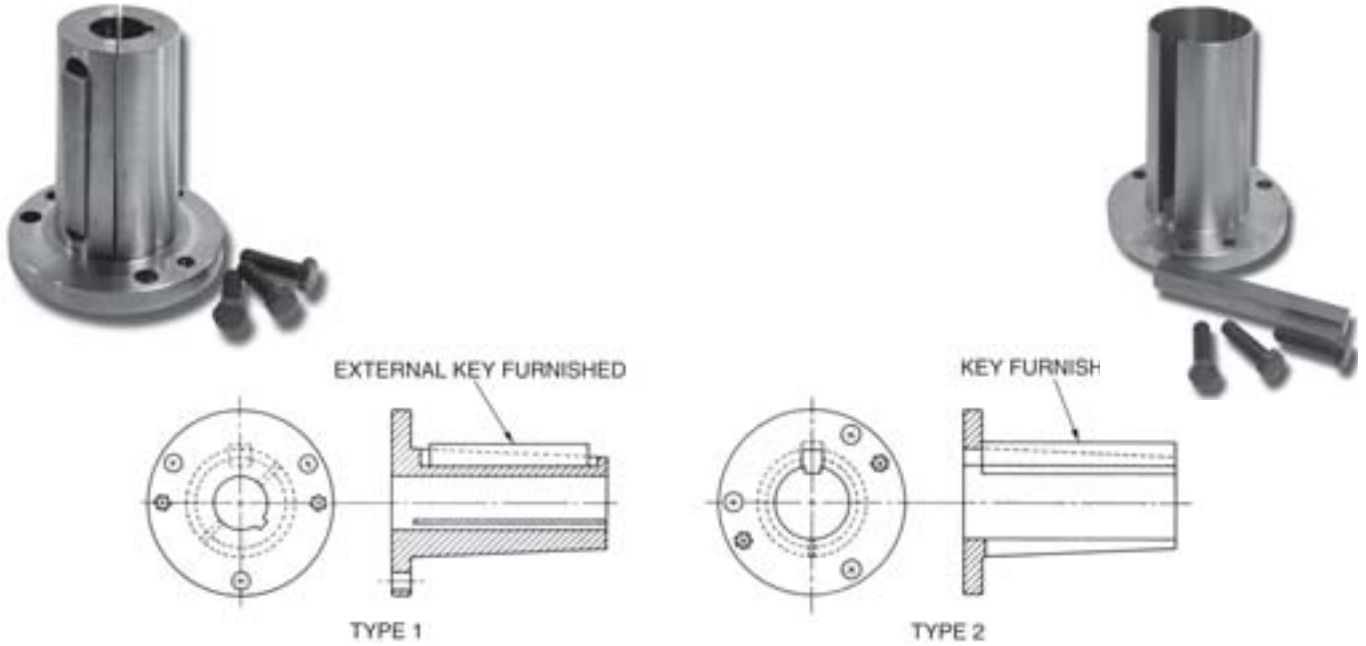


Table No. 16

REDUCER SIZE	BUSHING NO.	BORE SIZE	SHAFT KEYSEAT REQUIRED	TYPE	BOLT TORQUE		WEIGHT
					BOLT SIZE	FT.LBS.	
407SMTP	407TBP215	2 7/16	3/4 x 3/8 x 7 1/2	1	1/2-13 x 1 3/4	65	30.2
	407TBP303	2 3/16	3/4 x 3/8 x 7 1/2	2			29.3
	407TBP307	3 7/16	7/8 x 7/16 x 7 1/2	2			26.5
	407TBP315	3 15/16	1 x 1/2 x 7 1/2	2			20.1
	407TBP403	4 3/16	1 x 1/2 x 7 1/2	2			16.5
	407TBP407	4 7/16	1 x 1/2 x 7 1/2	2			12.6

REDUCER SIZE	BUSHING NO.	BORE SIZE	SHAFT KEYSEAT REQUIRED	TYPE	BOLT TORQUE		WEIGHT
					BOLT SIZE	FT.LBS.	
415SMTP	415TBP307	3 7/16	7/8 x 7/16 x 9 1/4	2	5/8-11 x 2	140	53.1
	415TBP315	3 15/16	1 x 1/2 x 9 1/4	2			44.4
	415TBP403	4 3/16	1 x 1/2 x 9 1/4	2			40.1
	415TBP407	4 7/16	1 x 1/2 x 9 1/4	2			35.5
	415TBP408	4 1/2	1 x 1/2 x 9 1/4	2			34.2
	415TBP415	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	BOLT TORQUE		WEIGHT
					BOLT SIZE	FT.LBS.	
507SMTP	507TBP315	3 15/16	1 x 1/2 x 10 3/8	2	3/4-10 x 2 1/4	250	65.0
	507TBP403	4 3/16	1 x 1/2 x 10 3/8	2			59.0
	507TBP407	4 7/16	1 x 1/2 x 10 3/8	2			54.0
	507TBP415	4 15/16	1 1/4 x 5/8 x 10 3/8	2			45.0
	507TBP507	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	BOLT TORQUE		WEIGHT
					BOLT SIZE	FT.LBS.	
608SMTP	608TBP507	5 7/16	1 1/4 x 5/8 x 11	2	3/4-10 x 2 3/4	250	80.0
	608TBP515	5 15/16	1 1/4 x 3/4 x 11	2			72.0
	608TBP600	6	1 1/4 x 3/4 x 11	2			70.0
	608TBP607	6 7/16	1 1/4 x 3/4 x 11	2			64.0
	608TBP608	6 1/2	1 1/4 x 3/4 x 11	2			63.0

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.
 STABILIZER RINGS NOT AVAILABLE ON UNIT SIZES 407-608.

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.

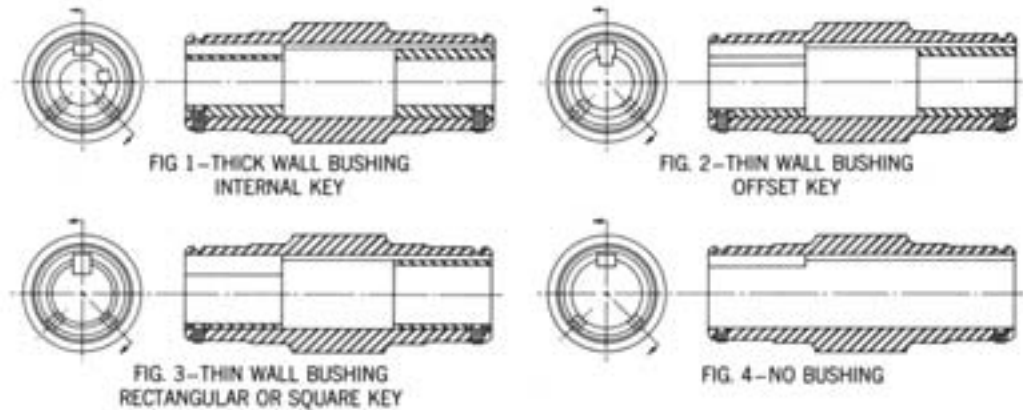


Table No. 17

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 215-608

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.

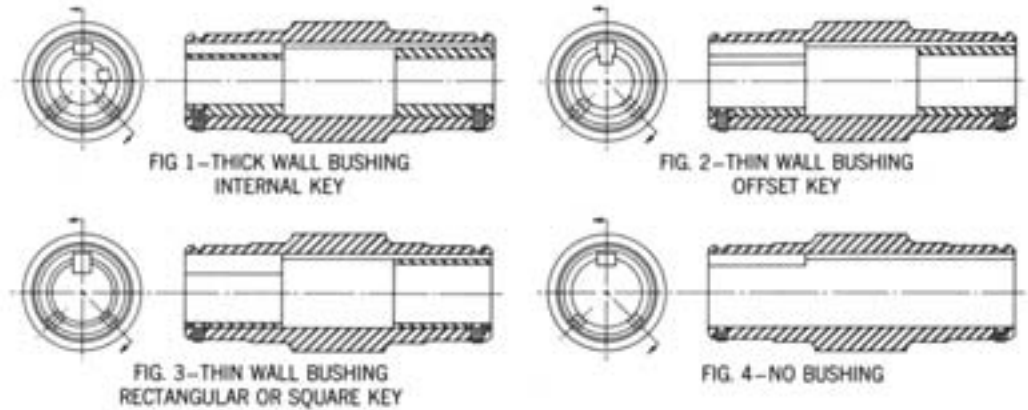


Table No. 17 (Continued)

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
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	-
407SMFP	2 15/16	3/4 x 3/8 x 5	407BU215	1	24.6
	3 3/16	3/4 x 3/8 x 5	407BU303	2	21.2
	3 7/16	7/8 x 7/16 x 5	407BU307	2	17.5
	3 15/16	1 x 1/2 x 5	407BU315	3	9.3
	4 3/16	1 x 1/2 x 5	407BU403	3	4.8
	4 7/16	1 x 1/2 x 5	NONE	4	-
	415SMFP	3 7/16	7/8 x 7/16 x 5	415BU307	2
3 15/16		1 x 1/2 x 5	415BU315	2	19.7
4 3/16		1 x 1/2 x 5	415BU403	2	15.2
4 7/16		1 x 1/2 x 5	415BU407	2	10.4
4 1/2		1 x 1/2 x 5	415BU408	2	9.8
4 15/16		1 1/4 x 5/8 x 5	NONE	4	-
507SMFP	3 15/16	1 x 1/2 x 6	507BU315	2	37.6
	4 3/16	1 x 1/2 x 6	507BU403	2	32.1
	4 7/16	1 x 1/2 x 6	507BU407	2	26.3
	4 15/16	1 1/4 x 5/8 x 6	507BU415	3	13.8
	5 7/16	1 1/4 x 5/8 x 6	NONE	4	-
608SMFP	5 7/16	1 1/4 x 5/8 x 6 1/2	608BU507	3	48
	5 15/16	1 1/2 x 3/4 x 6 1/2	608BU515	3	33
	6	1 1/2 x 3/4 x 6 1/2	608BU600	3	30
	6 1/2	1 1/2 x 3/4 x 6 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.

Top Mount Motor Mounts Unit Sizes 107-215

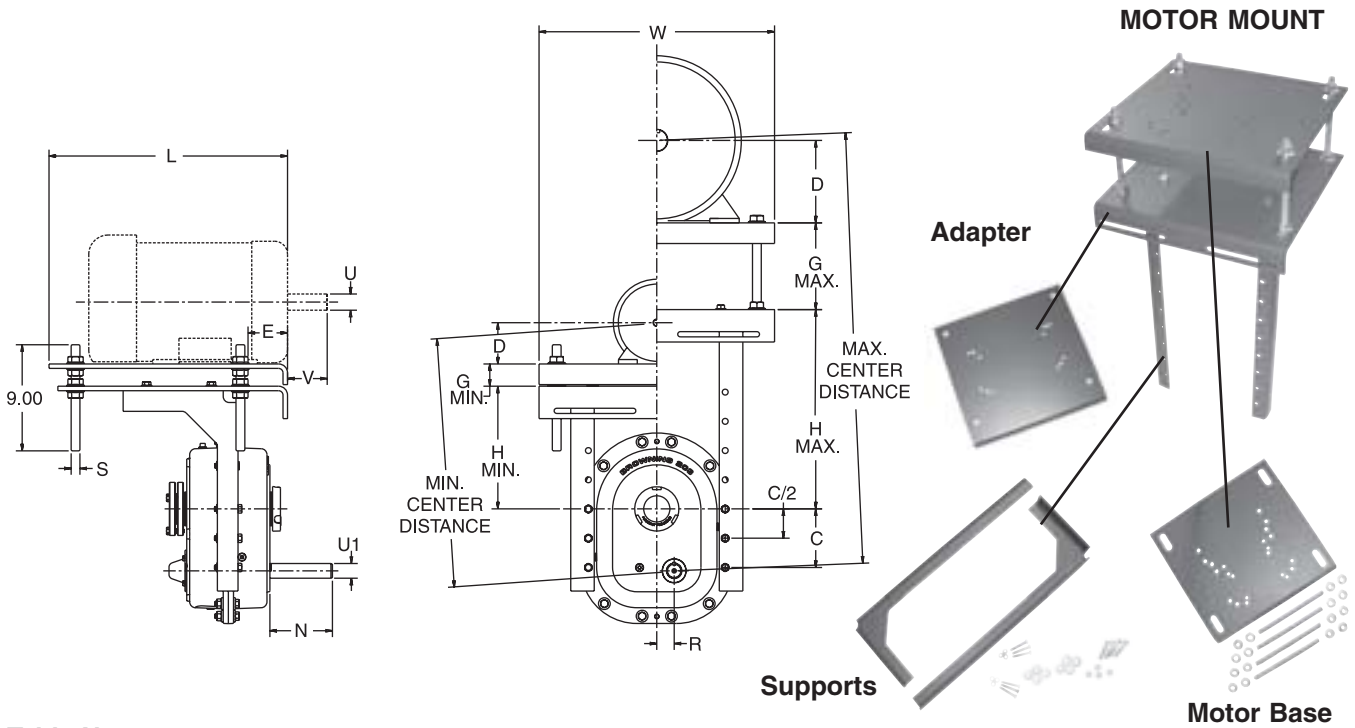


Table No. 18

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	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													5.75
115 HIGH	MMS115H	MMA107-115	MB107-115	51.0	4.32	1.64	7.61	6.94	17.74	15.50	4.24	1.35	0.63	16.50	1.12	1/4 x 1/8	
115 LOW	MMS115L			48.0													7.77
203 HIGH	MMS203H	MMA203	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													7.94
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	3/8 x 3/16	
207 LOW	MMS207L			112.6													10.44
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													10.50

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	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	MMA107-115	MB107-115	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	MB203-207	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		
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	

MOTOR FRAME SIZE	DIMENSIONS IN INCHES				
	D	E	U		V
			DIA.	KEYSEAT	
56	3 1/2	2 1/2	5/8	3/16 x 3/32	1 7/8
143T, 145T	3 1/2	2	7/8	3/16 x 3/32	2 1/4
182T, 186T	4 1/2	2 1/2	1 1/8	1/4 x 1/8	2 3/4
213T, 215T	5 1/4	3 1/4	1 3/8	5/16 x 5/32	3 3/8
254T, 256T	6 1/4	4	1 5/8	3/8 x 3/16	4
284T, 286T	7	4 1/2	1 7/8	1/2 x 1/4	4 5/8

* To determine usable input shaft length, see pages 28-30 or 32-33.

Top Mount Motor Mounts Unit Sizes 307-315

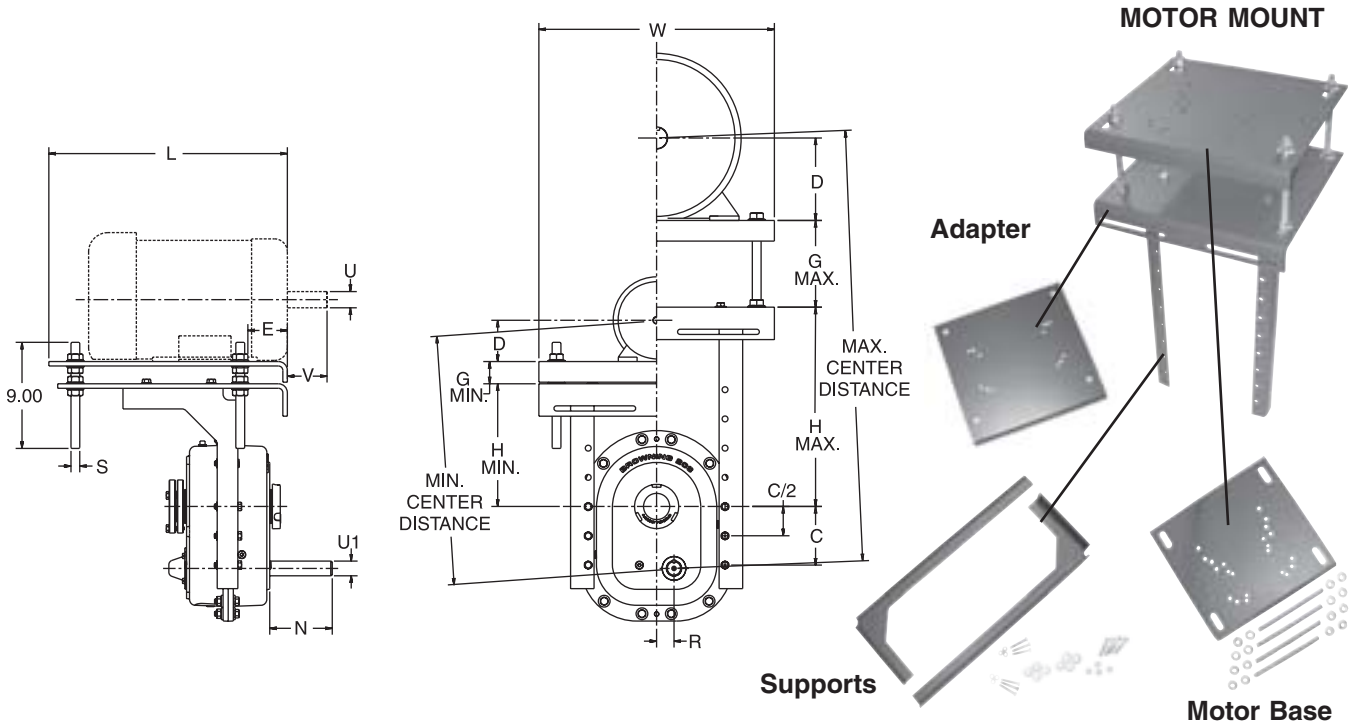


Table No. 19

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
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					14.25							
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	1/2 x 1/4
315 LOW	MMS315L			168.0					14.65							

BASIC REDUCER SIZE	MOTOR MOUNT SUPPORT	MOTOR MOUNT ADAPTER	MOTOR BASE	MINIMUM AND MAXIMUM CENTER DISTANCES (IN INCHES) FOR MOTOR FRAME SIZE											
				182T, 184T		213T, 215T		254T, 256T		284T, 286T		324T, 326T		364T, 365T	
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
307 HIGH	MMS307H	MMA307	MB215-307	24.56	45.88	25.30	46.63	26.30	47.63	27.05	48.38	28.05	37.47	29.05	38.47
307 LOW	MMS307L				33.97		34.72		35.72		36.47		49.38		50.38
315 HIGH	MMS315H	MMA315	MB315	25.57	47.55	26.31	48.30	27.31	49.30	28.05	50.05	29.05	38.64	30.05	39.64
315 LOW	MMS315L				35.14		35.89		36.89		37.64		51.05		52.05

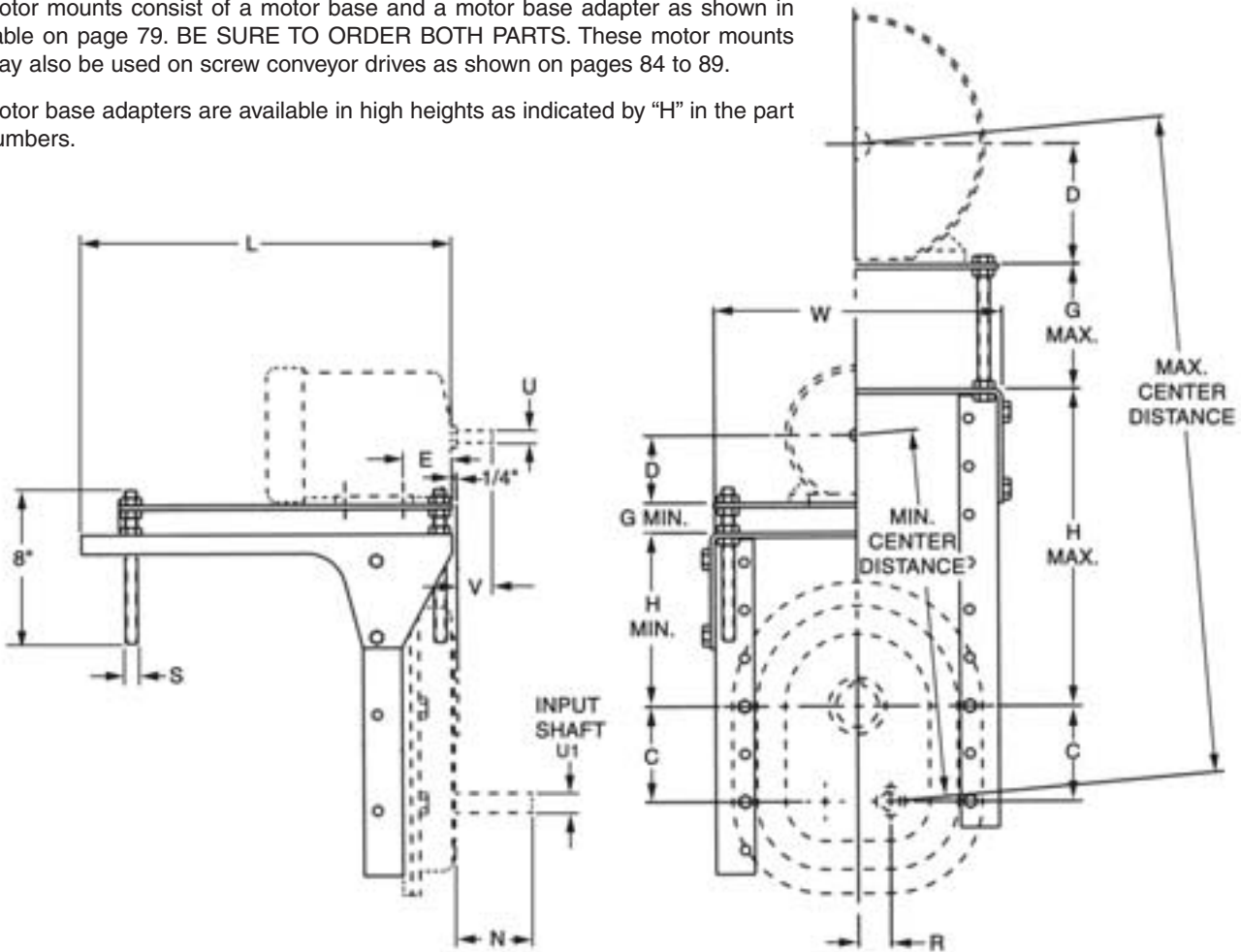
Motor Frame Size	Dimensions in Inches				
	D	E	U		V
			Dia.	Keyseat	
182T, 186T	4 1/2	2 1/2	1 1/8	1/4 x 1/8	2 3/4
213T, 215T	5 1/4	3 1/4	1 3/8	5/16 x 5/32	3 3/8
254T, 256T	6 1/4	4	1 5/8	3/8 x 3/16	4
284T, 286T	7	4 1/2	1 7/8	1/2 x 1/4	4 5/8
324T, 326T	8	5	2 1/8	1/2 x 1/4	5 1/4
364T, 365T	9	5 5/8	2 3/8	5/8 x 5/16	5 7/8

* To determine usable input shaft length, see pages 28-30 or 32-33.

Top Mount Motor Mounts Unit Sizes 407-608

Motor mounts consist of a motor base and a motor base adapter as shown in Table on page 79. BE SURE TO ORDER BOTH PARTS. These motor mounts may also be used on screw conveyor drives as shown on pages 84 to 89.

Motor base adapters are available in high heights as indicated by "H" in the part numbers.



REDUCER SIZE	CONVEYOR DIAMETER	HIGH MOTOR MOUNT SUPPORT
407	12	0
	14	4.69
	16	4.69
	18	4.69
	20	4.69
	24	*

When these motor mounts are used on screw conveyor drives, the amount shown above must be added to the minimum center distance shown in Table on page 79. Maximum center distance is unchanged.



* Refer to EPT Technical Services.

Top Mount Motor Mounts Unit Sizes 407-608

Table No. 20

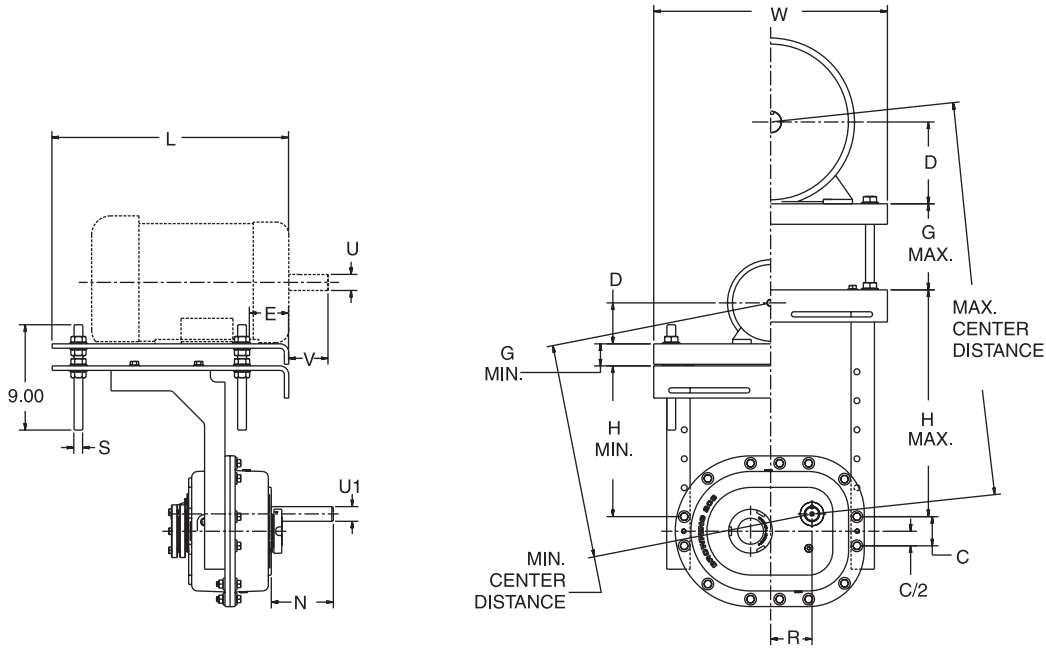
BASIC REDUCER SIZE	MOTOR BASE	WT. LBS.	MOTOR MOUNT ADAPTER	WT. LBS.	DIMENSIONS IN INCHES											
					C	G		H		L	N	R	S	W	INPUT SHAFT U1	
						MIN.	MAX.	MIN.	MAX.						DIA.	KEYSEAT
407	MBP56-215	19.9	MBAP407H	70	9.23	1.56	6.47	11.94	16.56	23.50	5.50	3.13	0.75	24.13	2.13	1/2 x 1/4
	MBP254-286	29.8	MBAP407H	70	9.23	1.56	6.47	11.94	16.56	23.50	5.50	3.13	0.75	24.13	2.13	1/2 x 1/4
	MBP324-365	45	MBAP407H	70	9.23	1.56	6.47	11.94	16.56	23.50	5.50	3.13	0.75	24.13	2.13	1/2 x 1/4
415	MBP56-215	19.9	MBAP415H	90	10.38	1.56	6.47	13.34	18.53	23.50	8	3.63	0.75	27.13	2.38	5/8 x 5/16
	MBP254-286	29.8	MBAP415H	90	10.38	1.56	6.47	13.34	18.53	23.50	8	3.63	0.75	27.13	2.38	5/8 x 5/16
	MBP324-365	45	MBAP415H	90	10.38	1.56	6.47	13.34	18.53	23.50	8	3.63	0.75	27.13	2.38	5/8 x 5/16
507	MBP254-286	29.8	MBAP507H	105	11.78	1.56	6.47	15.03	20.97	23.50	8	4.19	0.75	30.25	2.63	5/8 x 5/16
	MBP324-365	45	MBAP507H	105	11.78	1.56	6.47	15.03	20.97	23.50	8	4.19	0.75	30.25	2.63	5/8 x 5/16
608	MBP254-286	29.8	MBAP608H	125	13.59	1.56	6.47	16.25	20.75	23.50	8	4.25	0.75	32.31	2.69	5/8 x 5/16
	MBP324-365	45	MBAP608H	125	13.59	1.56	6.47	16.25	20.75	23.50	8	4.25	0.75	32.31	2.69	5/8 x 5/16

MOTOR FRAME SIZE	DIMENSIONS IN INCHES				
	D	E	U		V
			DIA.	KEYSEAT	
56	3 1/2	2 1/2	5/8	3/16 x 3/32	1 7/8
143T, 145T	3 1/2	2	7/8	3/16 x 3/32	2 1/4
182T, 186T	4 1/2	2 1/2	1 1/8	1/4 x 1/8	2 3/4
213T, 215T	5 1/4	3 1/4	1 3/8	5/16 x 5/32	3 3/8
254T, 256T	6 1/4	4	1 5/8	3/8 x 3/16	4
284T, 286T	7	4 1/2	1 7/8	1/2 x 1/4	4 5/8
324T, 326T	8	5	2 1/8	1/2 x 1/4	5 1/4
364T, 365T	9	5 5/8	2 3/8	5/8 x 5/16	5 7/8

Table No. 21

BASIC REDUCER SIZE	MOTOR BASE ADAPTER	MINIMUM AND MAXIMUM CENTER DISTANCES (IN INCHES) FOR MOTOR FRAME SIZES											
		182T, 184T		213T, 215T		254T, 256T		284T, 286T		324T, 326T		364T, 365T	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
407	MBAP407H	27.44	36.88	28.19	37.63	29.19	38.63	29.94	39.38	30.94	40.38	31.94	41.38
415	MBAP415H	-	-	30.75	40.75	34.75	41.75	32.50	42.50	33.50	43.50	34.50	44.50
507	MBAP507H	-	-	-	-	35.00	45.63	35.75	46.38	36.69	47.38	37.69	48.38
608	MBAP608H	-	-	-	-	38.44	47.25	38.69	48.00	39.69	49.00	40.63	50.00

Side Mount Motor Mounts Unit Sizes 107-315



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 in Table No. 24 on page 81. Maximum center distance is unchanged.

Table No. 22

REDUCER SIZE	CONVEYOR DIAMETER	TOP MOUNT		SIDE MOUNT		REDUCER SIZE	CONVEYOR DIAMETER	TOP MOUNT		SIDE MOUNT	
		HIGH MOTOR MOUNT SUPPORT	LOW MOTOR MOUNT SUPPORT	HIGH MOTOR MOUNT SUPPORT	LOW MOTOR MOUNT SUPPORT			HIGH MOTOR MOUNT SUPPORT	LOW MOTOR MOUNT SUPPORT	HIGH MOTOR MOUNT SUPPORT	LOW MOTOR MOUNT SUPPORT
107	6	0	1.88	0	0	207	9	2.97	0	0	0
	9	0	3.75	0	1.88		10	2.97	0	0	0
	10	0	3.75	0	1.88		12	2.97	0	2.97	2.97
	14	1.88	N/A	0	3.75		14	5.94	N/A	2.97	2.97
	16	3.75	N/A	1.88	5.63		16	5.94	N/A	5.94	5.94
	18	5.63	N/A	3.75	N/A		18	8.91	N/A	5.94	5.94
	20	7.50	N/A	5.63	N/A		20	8.91	N/A	8.91	N/A
115	6	0	0	0	0	215	9	0	0	0	0
	9	2.16	2.16	2.16	2.16		10	0	0	0	3.44
	10	2.16	2.16	2.16	2.16		12	0	0	3.44	3.44
	12	4.32	2.16	2.16	4.32		14	3.44	N/A	3.44	3.44
	14	4.32	N/A	4.32	6.48		16	3.44	N/A	6.88	6.88
	16	6.68	N/A	6.48	6.48	18	3.44	N/A	6.88	6.88	
	18	8.64	N/A	6.48	N/A	20	6.88	N/A	6.88	N/A	
203	6	0	0	0	0	307	12	0	0	0	0
	9	2.48	2.48	2.48	0		14	3.98	3.98	0	0
	10	2.48	2.48	2.48	0		16	3.98	3.98	3.98	3.98
	12	4.96	2.48	2.48	2.48		18	3.98	3.98	3.98	3.98
	14	4.96	N/A	4.96	2.48	20	7.95	N/A	3.98	3.98	
	16	7.44	N/A	4.96	4.96	24	11.93	N/A	7.95	7.95	
	18	9.92	N/A	7.44	N/A	315	12	0	0	0	0
20	9.92	N/A	9.92	N/A	14		4.15	4.15	0	0	
					16		4.15	4.15	4.15	4.15	
					18		4.15	4.15	4.15	4.15	
						20	8.30	N/A	4.15	4.15	
						24	12.45	N/A	8.30	8.30	

Side Mount Motor Mounts Unit Sizes 107-315

Table No. 23

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 107 LOW	MMS107H MMS107L	MMA107-115	MB107-115	51.0 48.0	1.88	1.64	7.61	8.78 5.75	18.15 9.50	15.50	4.08	2.56	0.63	16.50	0.75	3/16 x 3/32
115 HIGH 115 LOW	MMS115H MMS115L	MMA203		51.0 48.0				6.94 7.77	17.74 9.93							
203 HIGH 203 LOW	MMS203H MMS203L	MMA207	MB203-207	112.8 107.8	2.48	1.89	7.36	7.00 7.94	16.91 10.41	20.25	5.31	3.54	0.75	20.00	1.25	1/4 x 1/8
207 HIGH 207 LOW	MMS207H MMS207L	MMA215	MB215-307	118.6 112.6				2.97	1.89							
215 HIGH 215 LOW	MMS215H MMS215L	MMA307	MB215-307	134.4 126.4	3.44	1.89	7.36			11.43 10.50	21.75 10.50	20.25	5.87	4.59	0.75	24.00
307 HIGH 307 LOW	MMS307H MMS307L	MMA315	MB315	150.0 141.0				3.97	1.89	7.36	10.28					
315 HIGH 315 LOW	MMS315H MMS315L	MMA315-S	MB315	177.0 168.0	4.16	1.89	7.36				10.50	31.22 18.80	23.50	8.32	5.26	0.75

Table No. 24

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	
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
107 HIGH 107 LOW	MMS107H MMS107L	MMA107-115	MB107-115	13.91 10.95	31.00 22.39	13.91 10.95	31.00 22.39	14.89 11.92	32.00 22.38	15.63 12.66	32.74 24.13	-	-	-	-
115 HIGH 115 LOW	MMS115H MMS115L	MMA203		12.25 10.96	31.00 23.22	12.25 10.96	31.00 23.22	13.23 11.93	32.00 24.22	13.96 12.66	32.74 24.96	-	-	-	-
203 HIGH 203 LOW	MMS203H MMS203L	MMA207	MB203-207	12.66 13.56	30.23 23.76	12.66 13.56	30.23 23.78	13.62 14.53	31.22 24.77	14.34 15.26	31.97 25.52	15.31 16.23	32.96 26.51	16.05 16.96	33.71 27.25
207 HIGH 207 LOW	MMS207H MMS207L	MMA215	MB215-307	13.89 13.33	33.86 24.45	13.89 13.33	33.86 24.45	14.85 14.28	34.85 25.44	15.57 15.00	35.60 26.18	16.54 15.97	36.59 27.17	17.27 16.70	37.34 27.91
215 HIGH 215 LOW	MMS215H MMS215L	MMA307	MB215-307	-	-	13.76 12.89	35.94 24.82	14.71 13.83	36.93 25.81	15.42 14.54	37.68 25.54	16.38 15.49	38.67 27.53	17.10 16.21	39.41 28.27
307 HIGH 307 LOW	MMS307H MMS307L	MMA315	MB315	-	-	-	-	17.15	42.05 30.24	17.87	42.79 30.98	18.83	43.79 31.97	19.56	44.53 32.71
315 HIGH 315 LOW	MMS315H MMS315L	MMA315-S	MB315	-	-	-	-	17.16	42.86 30.56	17.88	43.60 31.29	18.84	44.60 32.28	19.56	45.34 33.02

Note: For motor frame sizes, see tables on pages 76-77.
 * To determine usable input shaft length, see pages 28-30 or 32-33.

Belt Guards Unit Sizes 107-315

Belt guard assemblies consist of a guard with mounting brackets included. These belt guards may also be used with screw conveyor drives as shown on pages 84 through 89. Belt guard standard color is yellow.

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

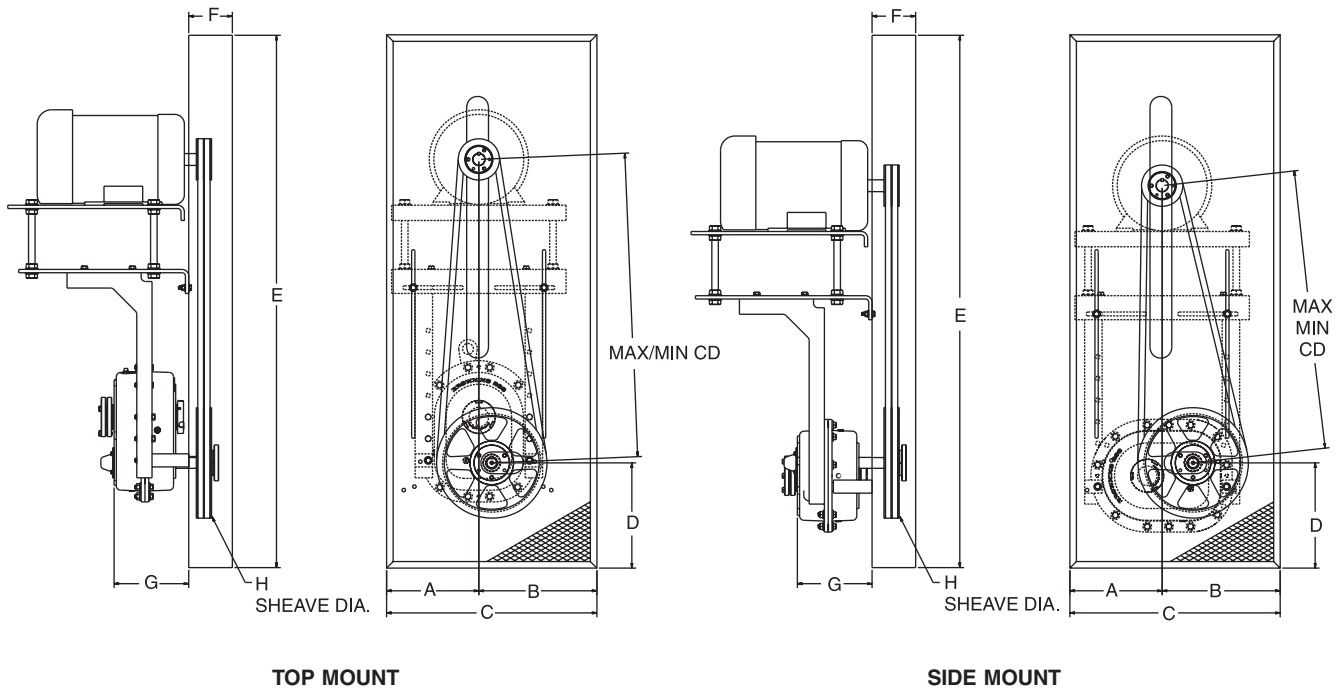
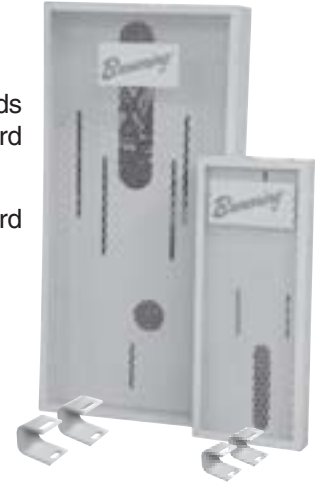


Table No. 25

SHAFT MOUNT SIZE	BELT GUARD PART NO.	DIMENSIONS IN INCHES											
		TOP MOUNT CENTER DISTANCE		SIDE MOUNT CENTER DISTANCE		A	B	C	D	E	F	G	H MAX.
		MIN.	MAX.	MIN.	MAX.								
107	BGP1	14.71	34.80	10.95	32.74	7.88	10.24	18.12	9.06	50.12	5.00	7.56	14.00
115		16.50	34.99	10.96	32.74	7.71	10.41					7.86	
203	BGP2	17.70	36.56	12.66	33.71	10.58	13.54	24.12	12.06	61.12	5.50	9.05	23.00
207		19.59	40.41	13.33	37.34	10.43	13.69					9.25	
215	BGP3	23.00	43.17	12.89	39.41	11.44	15.68	27.12	13.56	65.12	5.50	10.23	
307	BGP4	24.56	48.38	17.16	44.63	15.38	19.75	35.12	14.00	77.12	6.50	11.81	27.00
315		25.57	50.05	17.16	45.34	14.94	20.18					13.43	

Belt Guards Unit Sizes 407-608

Belt guard assemblies consist of a guard kit and a mounting bracket kit as shown in Table No. 26. These belt guards may also be used with screw conveyor drives as shown on pages 84 through 89. Belt guard standard color is yellow.

Brackets supplied provide for adjustment in order to accommodate fan kits when required.

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

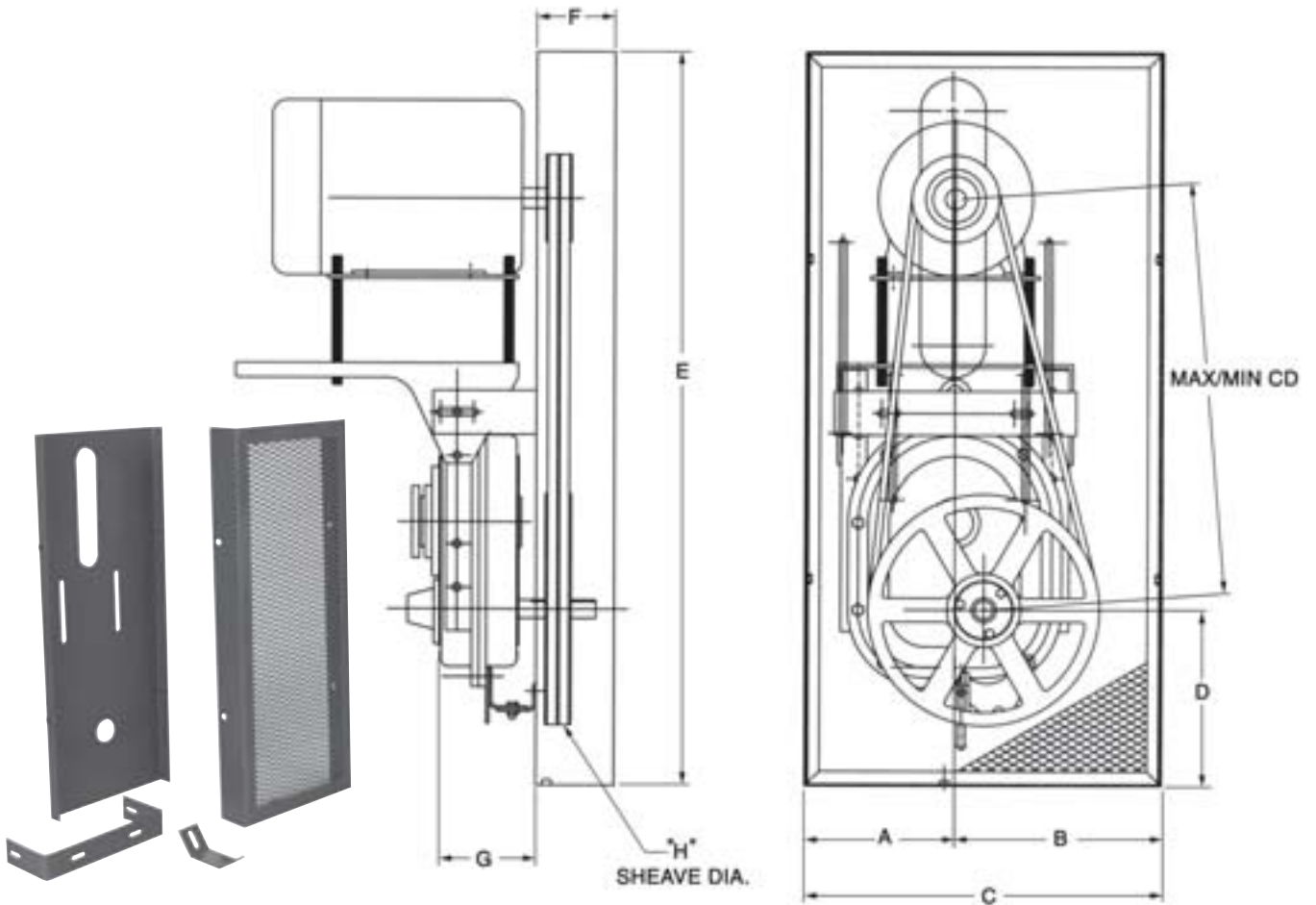
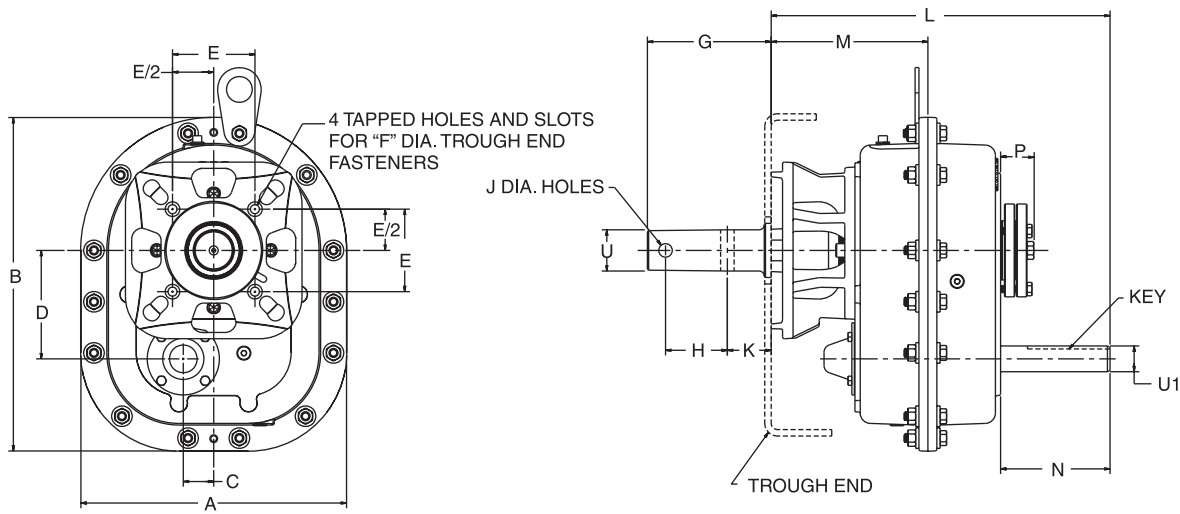
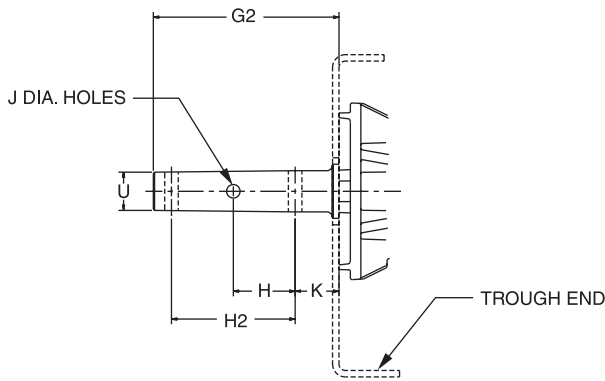


Table No. 26

SHAFT MOUNT SIZE	BELT GUARD PART NO.	MOUNTING BRACKET PART NO.	DIMENSIONS IN INCHES											
			TOP MOUNT CENTER DISTANCE		SIDE MOUNT CENTER DISTANCE		A	B	C	D	E	F	G	H MAX.
			MIN.	MAX.	MIN.	MAX.								
407	BGP5	BGMKP407-A	30.00	40.00	-	-	10.93	17.18	28.12	14.06	65.00	8.00	7.12	27.00
415		BGMKP415-A					10.43	17.68					7.74	
507		BGMKP507-A					9.87	18.25					8.56	



Standard 2 Hole Shaft



Optional 3 Hole Shaft



Table No. 27

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	21.63	27.75	3.13	9.23	20.56	11.13	5.50	0.44	2.13	.500 x .500 x 5.00	

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	-	4.00	-	0.91	3.88	

Type SMTP Screw Conveyor Drives

Table No. 28

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 & 9"					
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 & 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__	407SCA-P	407DSP300__			
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__	407SCA-P	407DSP307__			

TYPE SMTP SCREW CONVEYOR DRIVES MAY BE ASSEMBLED IN THE FIELD

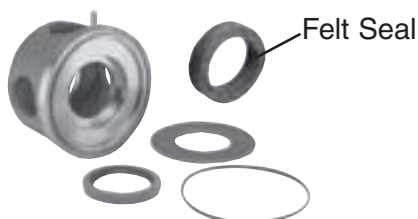
REQUIRED COMPONENTS INCLUDE: STOCK SMTP REDUCER
 TYPE SMTP SCREW CONVEYOR ADAPTER
 TYPE SMTP SCREW CONVEYOR SHAFT

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 only added to the waste pack seal cartridge only.



Screw Conveyor Adapter Kit



Waste Pack Kit

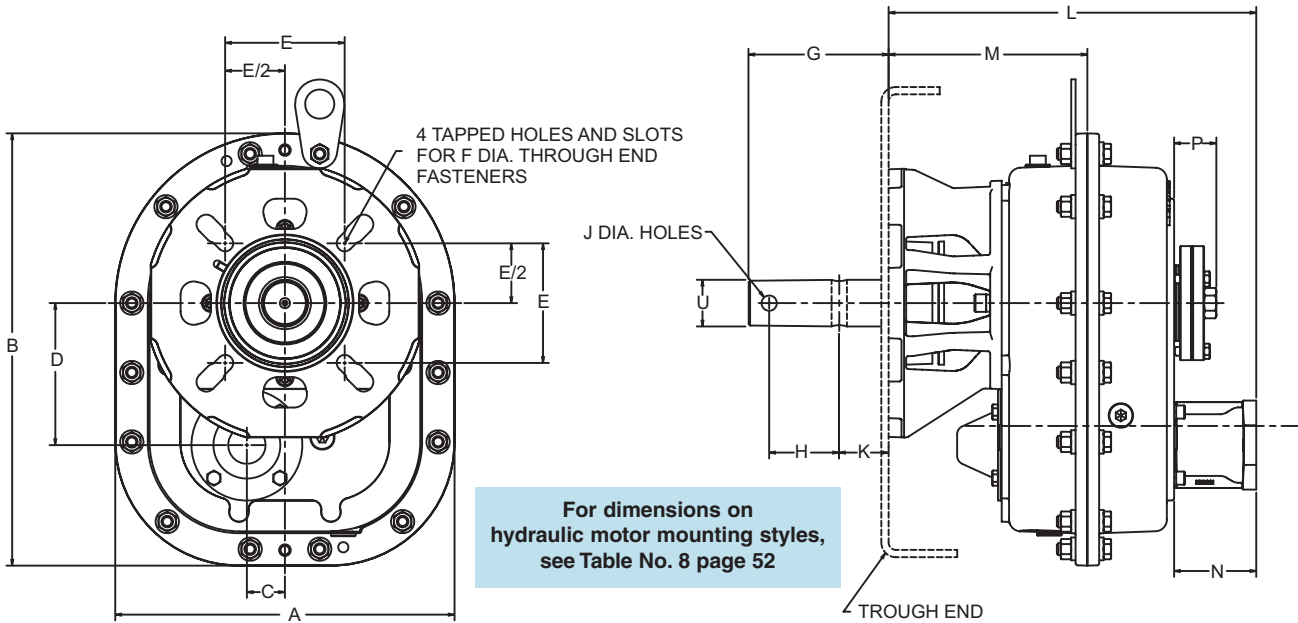


Packing Gland Kit

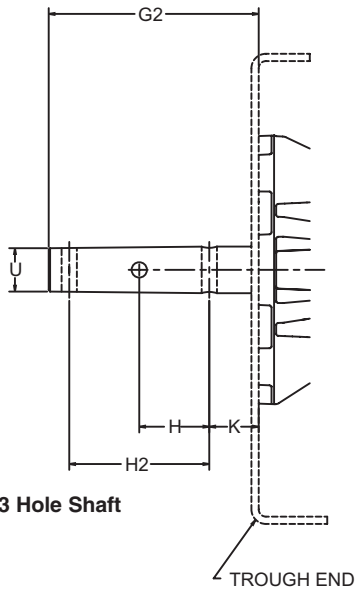


Screw Conveyor Drive Shaft Kit

Type HMTP Screw Conveyor Drives



For dimensions on hydraulic motor mounting styles, see Table No. 8 page 52



Optional 3 Hole Shaft

Table No. 29A

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

Table No. 29

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	12.13	4.00	8.00	0.91	3.88

Table No. 30

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 & 9"					
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 & 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__	207-407WPP	207-407PGP	FR308
307HMTP__	307SCA-P	307DSP307__			
315HMTP__	315SCA-P	315DSP307__			

TYPE HMTP SCREW CONVEYOR DRIVES MAY BE ASSEMBLED IN THE FIELD

REQUIRED COMPONENTS INCLUDE: STOCK HMTP REDUCER
 TYPE SMTP SCREW CONVEYOR ADAPTER
 TYPE SMTP SCREW CONVEYOR SHAFT

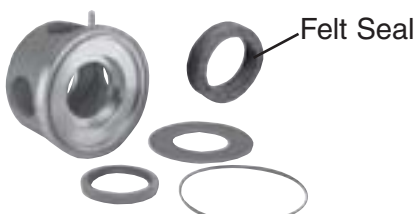
OPTIONAL COMPONENTS INCLUDE: WASTE PACK
 PACKING GLAND
 FELT SEAL

- (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 only added to the waste pack seal cartridge only.



Screw Conveyor Adapter Kit



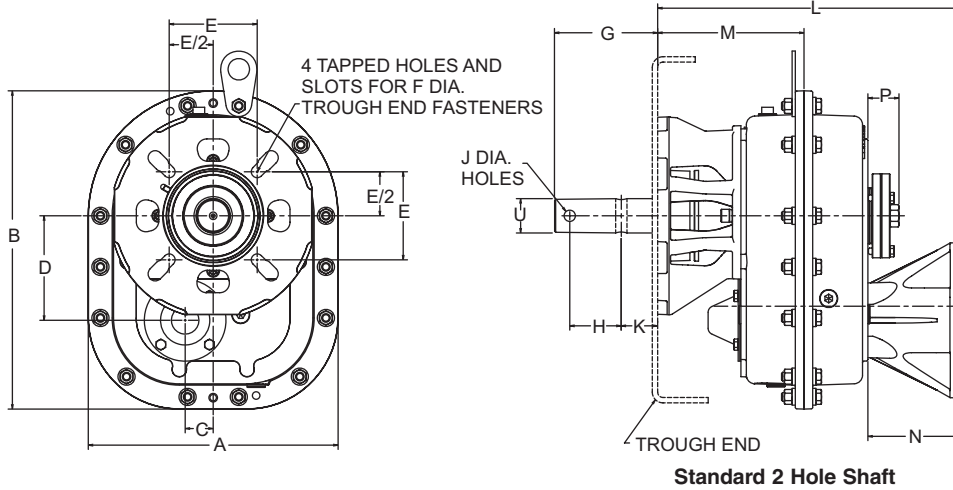
Waste Pack Kit



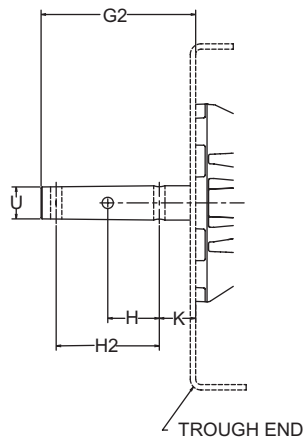
Packing Gland Kit



Screw Conveyor Drive Shaft Kit



Standard 2 Hole Shaft



Optional 3 Hole Shaft

Table No. 31A

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

Table No. 31

BASIC UNIT SIZE	DIMENSIONS IN INCHES					
	A	B	C	D	M	P
107CMTP	9.76	12.07	1.18	3.77	6.90	1.61
115CMTP	11.00	14.08	1.35	4.36	7.14	1.72
203CMTP	12.88	16.16	1.48	5.26	7.60	1.72
207CMTP	14.50	18.47	1.63	6.08	8.51	1.80
215CMTP	16.25	20.88	2.12	7.01	9.25	1.93
307CMTP	19.04	24.37	2.25	7.78	10.94	2.52
315CMTP	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	12.13	4.00	8.00	0.91	3.88

Table No. 32

STOCK CMTM 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 & 9"					
107CMTM__	107SCA-P	107DSP108__	107WPP	107PGP	FR200
115CMTM__	115SCA-P	115DSP108__	115-203WPP	115-203PGP	FR210
203CMTM__	203SCA-P	203DSP108__			
2" DRIVE SHAFT - FOR SCREW DIAMETERS 9 & 12"					
107CMTM__	107SCA-P	107DSP200__	107WPP	107PGP	FR200
115CMTM__	115SCA-P	115DSP200__	115-203WPP	115-203PGP	FR210
203CMTM__	203SCA-P	203DSP200__			
207CMTM__	207SCA-P	207DSP200__	207-407WPP	207-407PGP	FR308
215CMTM__	215SCA-P	215DSP200__			
2 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 12 & 14"					
107CMTM__	107SCA-P	107DSP207__	107WPP	107PGP	FR200
115CMTM__	115SCA-P	115DSP207__	115-203WPP	115-203PGP	FR210
203CMTM__	203SCA-P	203DSP207__			
207CMTM__	207SCA-P	207DSP207__	207-407WPP	207-407PGP	FR308
215CMTM__	215SCA-P	215DSP207__			
3" DRIVE SHAFT - FOR SCREW DIAMETERS 12 - 20"					
107CMTM__	107SCA-P	107DSP300__	107WPP	107PGP	FR200
115CMTM__	115SCA-P	115DSP300__	115-203WPP	115-203PGP	FR210
203CMTM__	203SCA-P	203DSP300__			
207CMTM__	207SCA-P	207DSP300__	207-407WPP	207-407PGP	FR308
215CMTM__	215SCA-P	215DSP300__			
307CMTM__	307SCA-P	307DSP300__	207-407WPP	207-407PGP	FR308
315CMTM__	315SCA-P	315DSP300__			
3 7/16" DRIVE SHAFT - FOR SCREW DIAMETERS 18 - 24"					
207CMTM__	207SCA-P	207DSP307__	207-407WPP	207-407PGP	FR308
215CMTM__	215SCA-P	215DSP307__	207-407WPP	207-407PGP	FR308
307CMTM__	307SCA-P	307DSP307__			
315CMTM__	315SCA-P	315DSP307__			

TYPE CMTM SCREW CONVEYOR DRIVES MAY BE ASSEMBLED IN THE FIELD

REQUIRED COMPONENTS INCLUDE: STOCK CMTM REDUCER
 TYPE SMTP SCREW CONVEYOR ADAPTER
 TYPE SMTP SCREW CONVEYOR SHAFT

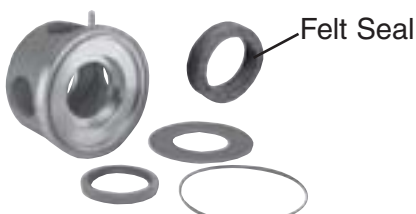
OPTIONAL COMPONENTS INCLUDE: WASTE PACK
 PACKING GLAND
 FELT SEAL

- (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 only added to the waste pack seal cartridge only.



Screw Conveyor Adapter Kit



Waste Pack Kit



Packing Gland Kit



Screw Conveyor Drive Shaft Kit

Screw Conveyor Trough Ends Sizes 107-608



**FORMED HOT ROLL
PLATE STEEL**

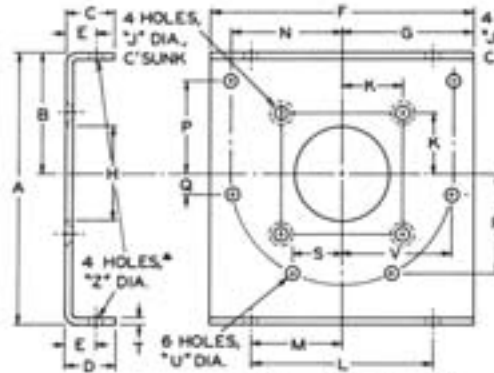


FIG 1 - 6 HOLE TYPE

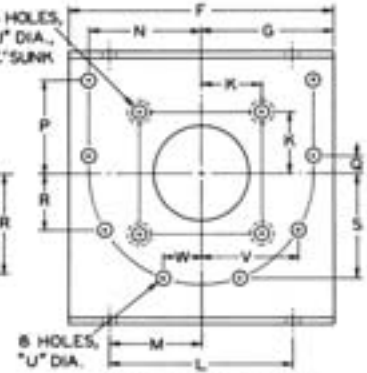


FIG 2 - 8 HOLE TYPE

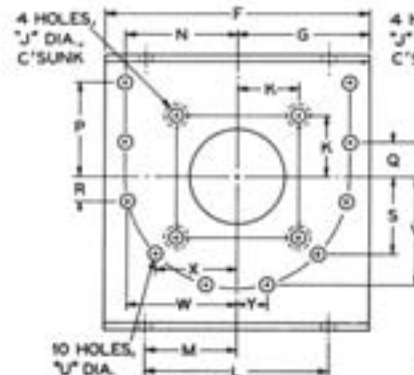


FIG 3 - 10 HOLE TYPE

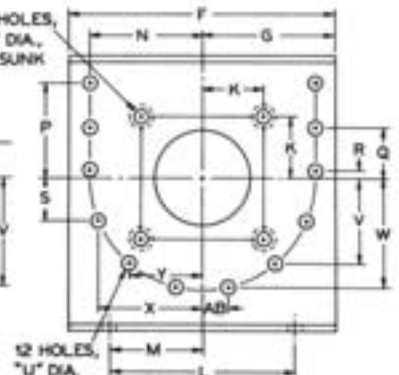


FIG 4 - 12 HOLE TYPE

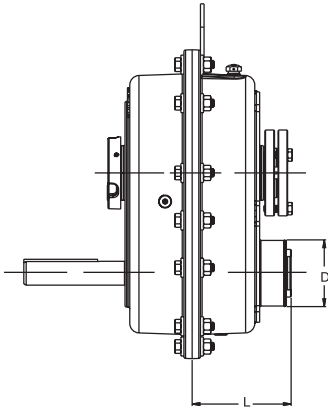
Table No. 33

Specifications

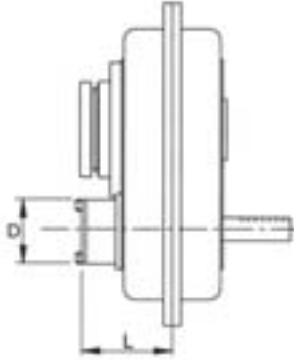
Part No.	Conveyor Screw Dia.	Drive Shaft Dia.	Fig.	Type	Dimensions										
					A	B	C	D	E	F	G	H	J	K	L
SCTE06 x 1 1/2"	6"	1 1/2"	1	6-Hole	10 1/8"	4 1/2"	1 1/2"	1 3/4"	1"	9 3/4"	4 7/8"	1 3/4"	9/16"	2"	8 1/8"
SCTE09 x 1 1/2"	9	1 1/2"	2	8-Hole	14	6 1/8"	1 5/8"	2 5/8"	1 1/2"	13 3/4"	6 7/8"	1 3/4"	9/16"	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.
▲, "Z" holes in bottom flange only; no holes in top flange.



Size 107-315



Size 407-608



BACKSTOP KITS

Table No. 34

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			4.750	5.695	7.4
215	215-307BSP		5.000	6.230	8.4
307			5.000	6.770	8.4
315			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



TORQUE ARM KITS

Table No. 35

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

Grease-Purgeable Sealing System Units

A GREASE-PURGEABLE SEALING SYSTEM consists of a special bearing cover with a grease fitting, a pipe plug and two seals mounted so there is a grease cavity between the seals. When filled with grease, this grease cavity acts as a trap for contaminants, especially abrasive contaminants, which pass through the first seal. By removing the plug and forcing grease through the grease cavity, the trapped contaminants are removed and a new trap is established. These seals are especially effective in highly abrasive atmospheres. Reducers with a grease-purgeable seal are furnished with 40 micron breathers.

TO ORDER a shaft mount reducer WITH GREASE-PURGEABLE SEALS, select the reducer in the usual manner and change the letters “SM” in the part number to “TS”. For example, 407SMTP15 becomes 407TSTP15 when grease-purgeable seals are desired. A complete listing of part numbers is shown in Table No. 36. Reducers with grease-purgeable seals are assembled to order but all parts are carried in stock for quick delivery.

Table No. 36

Basic Reducer Size	Part Numbers for Reducers with Grease-Purgeable Seals		
	Ratio		
	05	15	25
407	407TSTP05	407TSTP15	407TSTP25
415	415TSTP05	415TSTP15	415TSTP25
507	-	507TSTP15	507TSTP25
608	-	608TSTP15	608TSTP25

Note — If a fan is needed for a grease-purgeable sealing system unit, the fan cover must be modified and the fan installed at the factory.

Fan Kits

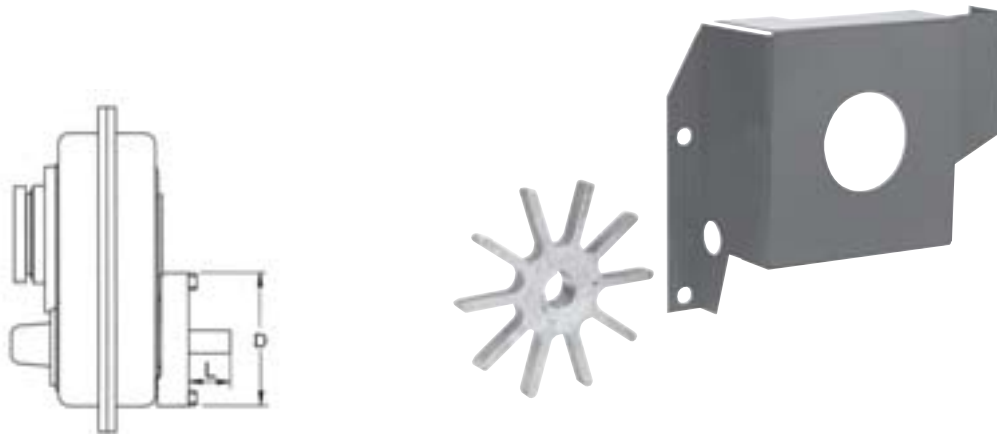


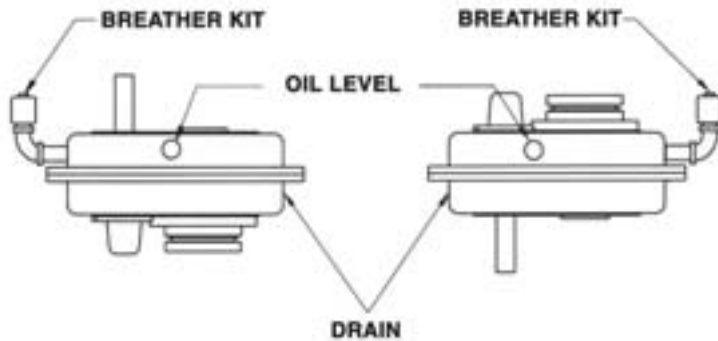
Table No. 37

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	407FKP	14.0	3.6	10.0
415	415FKP	15.5	5.6	11.0
507	507FKP	17.5	5.6	12.0
608	608FKP	19.4	5.6	13.0

Note — Stock fan kits cannot be installed on grease-purgeable sealing system units in the field. Fan cover must be modified and the fan installed at the factory.

Part No. 107-608 SMTP VBK Vertical Breather Kit

Fits all reducer sizes. When a shaft mount speed reducer is mounted with the shaft vertical, a vertical breather kit is needed. One kit serves all sizes.



Part No. 107-608 SMTP FBK Filtered Breather Kit

The filtered breather kit fits all reducer sizes. A filtered breather is recommended in applications where abrasive particles may contaminate the gearbox lubricant.

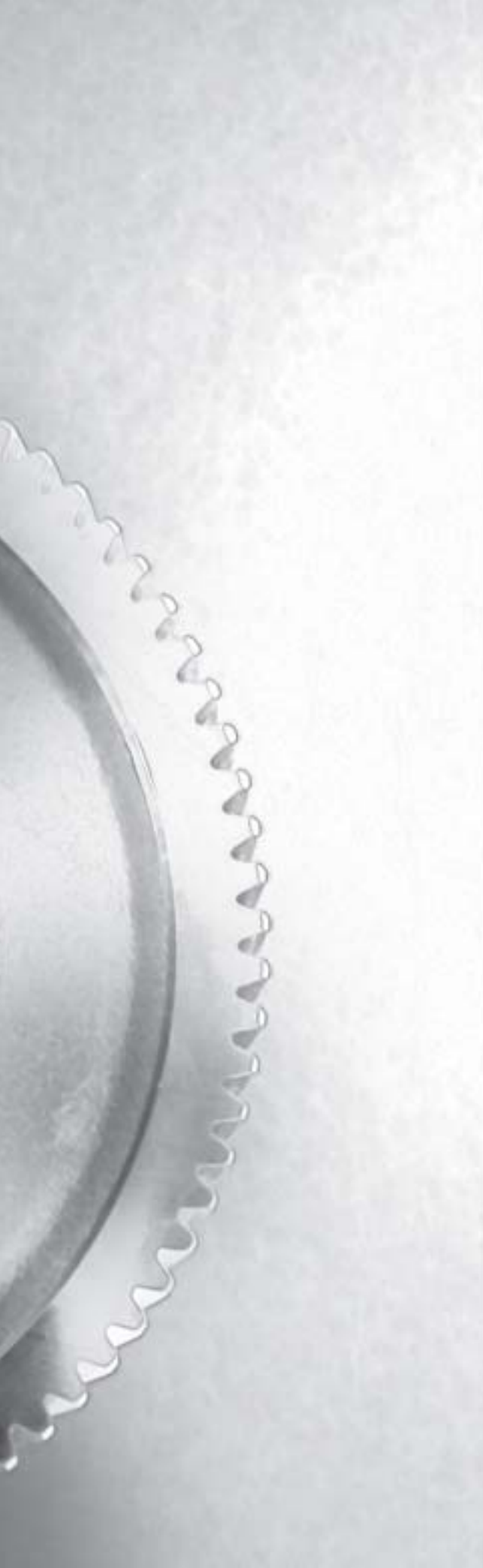


Part No. 307-608 SMTP PC Pump and Cooler Kit

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



BROWNING



Engineering Section

Output Thrust and Overhung Loads	96 - 99
Input Shaft Overhung Load Capacity	100 - 101
Minimum Shaft Requirements	102 - 103
Face Mounting	104 - 105
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Overhung Load Capacity (Lbs.) Unit Size 107-215

Single Reduction Reducers

Table No. 38

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 EPT Technical Services.
 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

Table No. 38 (Continued)

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.	407SMT05			
	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.	415SMT05			
	Thrust Load	OHL at Inches from Machined Housing Surface		
		4	8	12
90	8305	5493	4887	4280
100	8049	5242	4663	4085
110	7897	5025	4470	3915
120	7744	4832	4298	3765
130	7591	4660	4145	3630
140	7438	4507	4008	3510
150	7285	4363	3882	3400
160	7154	4237	3768	3300
170	7023	4115	3660	3205
180	6893	4003	3562	3120
190	6762	3910	3475	3040
200	6631	3822	3393	2965
210	6603	3738	3317	2895
220	6576	3663	3247	2830
230	6548	3597	3183	2770
240	6521	3523	3117	2710
250	6493	3428	3032	2635
260	6467	3327	2943	2560
270	6441	3245	2870	2495
280	6415	3160	2795	2430
290	6390	3075	2720	2365
300	6364	2995	2650	2305
310	6346	2923	2587	2250
320	6329	2852	2523	2195
330	6312	2788	2467	2145
340	6294	2722	2408	2095
350	6274	2658	2352	2045
360	6254	2600	2300	2000
370	6234	2542	2248	1955
380	6214	2480	2195	1910
390	6193	2430	2150	1870
400	6172	2377	2103	1830

Notes: Above thrust and overhung loads are not applicable for combined thrust and overhung loads; refer such applications to EPT Technical Services. 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

Table No. 39

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				
	Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
			4	8	12
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 EPT Technical Services.
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

Table No. 39 (Continued)

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	407SMTP15 407SMTP25				
	Output R.P.M.	Thrust Load	OHL at Inches from Machined Housing Surface		
			4	8	12
10	9000	8123	7172	6220	
20	8298	5260	4645	4030	
30	6586	3797	3353	2910	
40	4874	2937	2593	2250	
50	4344	2315	2045	1775	
60	3813	2190	1935	1680	
70	3283	2095	1850	1605	
80	2931	2007	1773	1540	
90	2579	1943	1717	1490	
100	2226	1877	1658	1440	
110	1874	1827	1613	1400	
120	1760	1782	1573	1365	
130	1645	1742	1538	1335	

Reducer Size	415SMTP15 415SMTP25				
	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	507SMTP15 507SMTP25				
	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	608SMTP15 608SMTP25				
	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	

Notes: Above thrust and overhung loads are not applicable for combined thrust and overhung loads; refer such applications to EPT Technical Services.
 Interpolate for loads at other distances from the housing surface.
 Overhung load must be applied on the same side as the bushing.



Type SMTP Input Shaft Overhung



Load Capacity (Lbs.) Unit Size 107-608

Table No. 40

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

Table No. 41

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.



Type SMTP Input Shaft Overhung



Load Capacity (Lbs.) Unit Size 107-608

Table No. 42 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

Table No. 43 25:1 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	6780	7040
20	354	992	1212	1716	3082	3458	3920	3812	5390	5943	5573
30	354	992	1212	1598	2695	3027	3585	3323	4830	4305	3144
40	354	955	1212	1451	2452	2620	3259	3014	4296	3781	3513
50	354	913	1212	1342	2278	2284	3023	2794	3905	3533	3443
60	354	861	1212	1259	2145	2013	2733	2646	3697	3345	3282
70	354	819	1212	1195	2038	1787	2658	2525	3531	3197	3136
80	354	784	1212	1143	1947	1592	2566	2425	3393	3070	3011

Table No. 44 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

Table No. 45 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
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	-	-	-	-	-
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
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
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

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.

Length Requirements Unit Sizes 107-315

Front Mounting Configuration with Stabilizer Ring

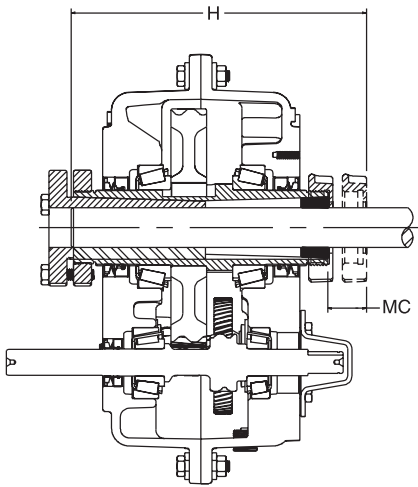


Fig. 1

UNIT SIZE	ENDCAP CLEARANCE	MINIMUM SHAFT MOUNTING LENGTH	MINIMUM KEY CONNECTION LENGTH
	MC	H	K*
107	0.97	8.25	4.38
115	1.03	8.77	4.63
203	1.15	9.46	5.13
207	1.21	10.35	5.63
215	1.31	11.55	6.13
307	1.44	13.07	7.38
315	1.69	15.19	8.56

Rear Mounting Configuration with Stabilizer Ring

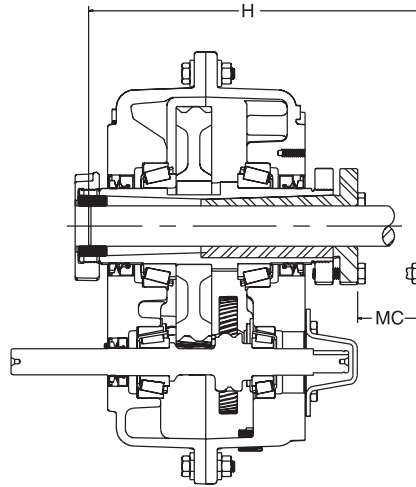


Fig. 2

UNIT SIZE	BOLT CLEARANCE	MINIMUM SHAFT MOUNTING LENGTH	MINIMUM KEY CONNECTION LENGTH
	MC	H	K*
107	1.75	9.14	7.89
115	1.88	9.74	8.36
203	1.88	10.81	9.43
207	1.88	11.13	9.75
215	1.88	12.23	10.85
307	2.25	14.83	12.39
315	2.75	16.89	14.30

Rear Mounting Configuration without Stabilizer Ring

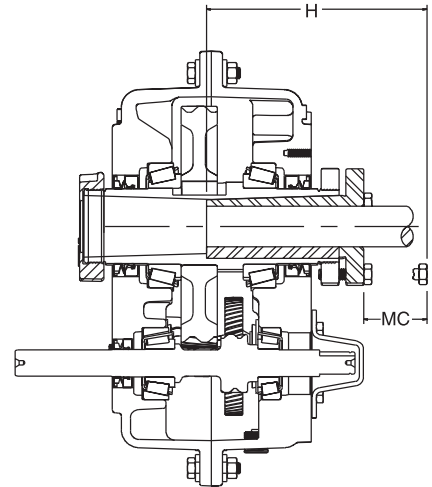


Fig. 3

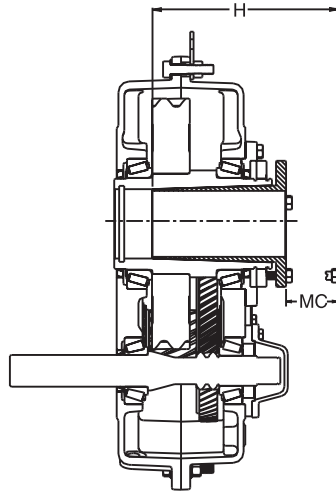
UNIT SIZE	BOLT CLEARANCE	MINIMUM SHAFT MOUNTING LENGTH	MINIMUM KEY CONNECTION LENGTH
	MC	H	K*
107	1.75	6.12	4.38
115	1.88	6.50	4.63
203	1.88	7.00	5.13
207	1.88	7.50	5.63
215	1.88	8.00	6.13
307	2.25	9.63	7.38
315	2.75	11.31	8.56

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

Length Requirements Unit Sizes 407-608

407-608 Mounting systems available in rear configuration only

No stabilizer ring on 407-608 units



Note: Contact EPT Technical Services for front configuration mounting systems on these sizes

Fig. 4

UNIT SIZE	BOLT CLEARANCE	MINIMUM SHAFT MOUNTING LENGTH	MINIMUM KEY CONNECTION LENGTH
	MC	H	K*
407	2.50	10.63	6.91
415	2.88	12.88	8.53
507	3.25	14.50	9.66
608	3.25	15.25	10.16

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

Face Mounting Drill and Tap Instructions Unit Sizes 107-215

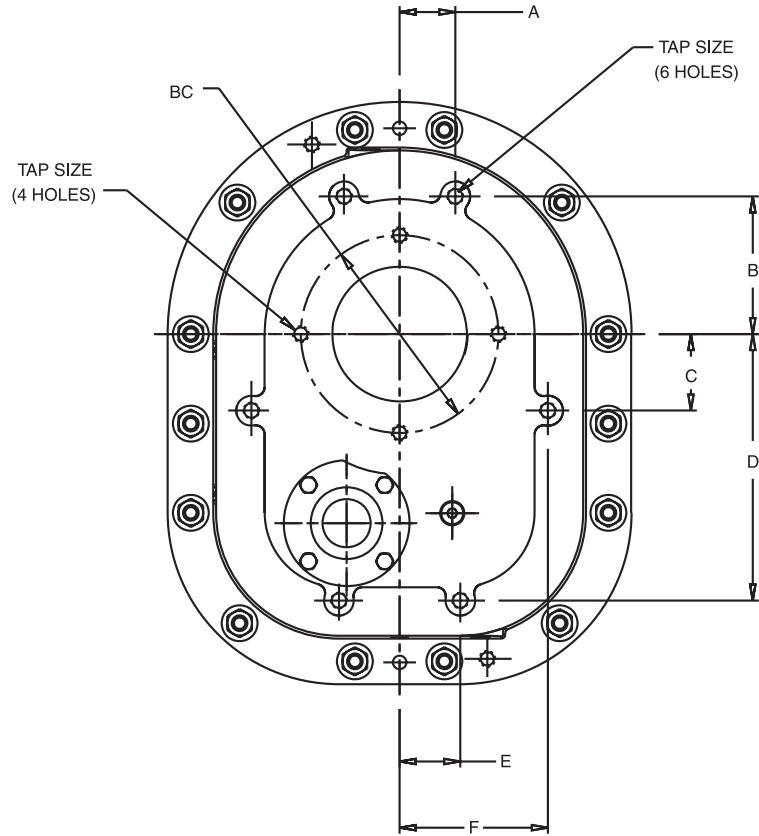


Table No. 46 Standard Face Mount Holes

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

Optional Face Mount Holes

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

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	

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 307-608

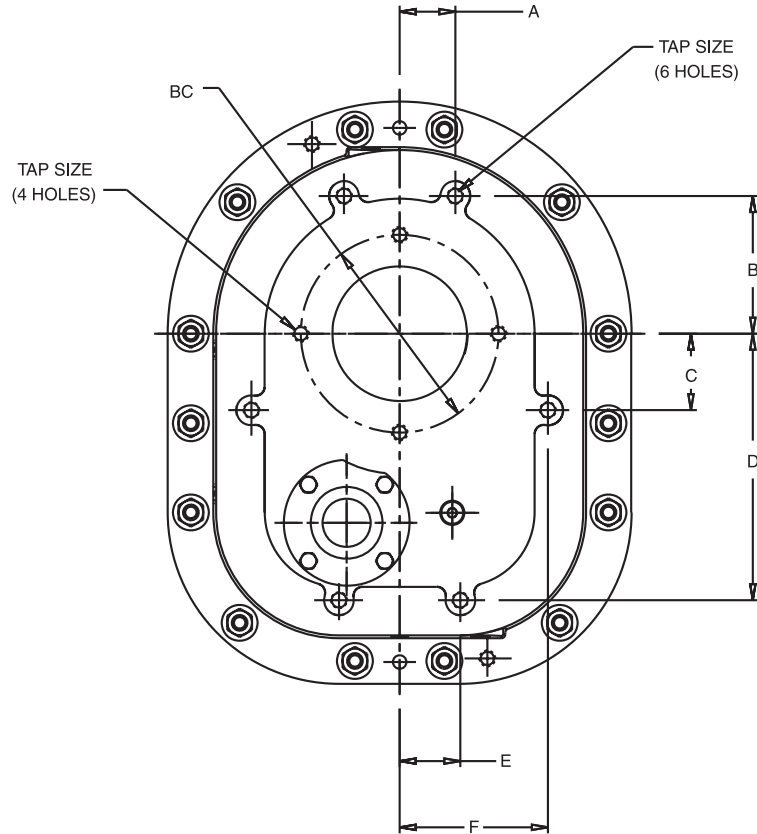


Table No. 47 Standard Face Mount Holes

REDUCER SIZE	HOLES	TAP SIZE	TAP DEPTH	DRILL DEPTH	BC
307	4	5/8-11	1.16	1.44	8.375
315			1.25	1.50	9.125
407	6		1.06	1.31	9.125
415			1.25	1.50	11.000
507			1.13	1.38	11.000
608			8	3/4-10	1.50

Optional Face Mount Holes

REDUCER SIZE	A	B	C	D	E	F
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
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

REDUCER SIZE	HOLES	TAP SIZE	TAP DEPTH	DRILL DEPTH
307	6	5/8-11	1.00	1.19
315				
407				
415				
507				
608	3/4-10	1.38	1.69	

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.

Horizontal Shaft Mounting

The drawing below shows the breather, magnetic drain and oil level plug locations for the four 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 at or below those shown in Table No. 48. Use oil level "B" for speeds above those shown in Table No. 48.

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

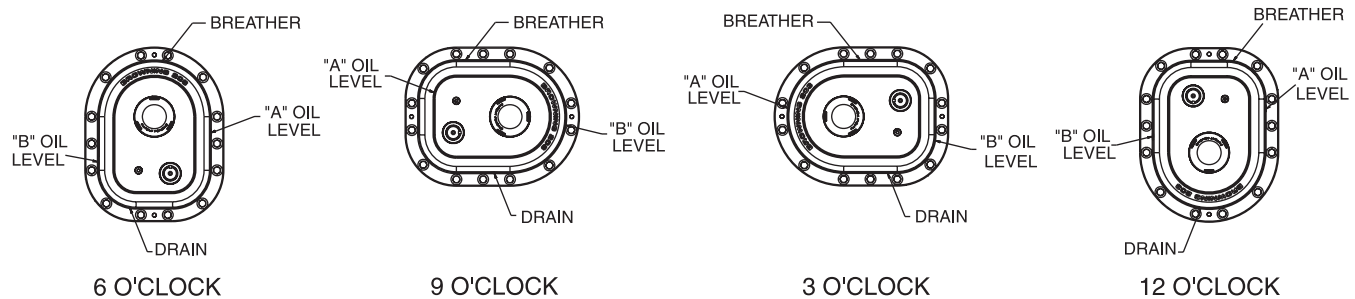


Table No. 48 Use Oil Level "B" For Speeds Above Those Shown Below

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

Shaft mount reducers require different amounts of oil in the various mounting positions. For the convenience of having enough oil at the installation site, Table No. 38 shows the approximate amount of oil for the position requiring the most oil.

Table No. 49 Approximate Oil Capacities in Quarts

Output Orientation	Horizontal															
	5:1								9, 15, 25, 35:1							
Ratio	A				B				A				B			
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

Output Orientation	Vertical			
	5:1		9, 15, 25, 35:1	
Ratio	Input Shaft Up		Input Shaft Down	
Mounting Position	Input Shaft Up		Input Shaft Down	
107	2.50		2.50	
115	3.50		4.00	
203	6.00		7.00	
207	8.50		9.00	
215	13.00		12.50	
307	18.50		20.00	
315	24.00		26.00	

Notes: CONTACT EPT Technical Services for vertical shaft mounting lubrication instructions.
 SMTP, SMFP, HMTP 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, HMTP and CMTP shaft mount reducers.
 For complete lubrication instructions, refer to the installation manual provided with the unit.

Reference page 108 for additional lubrication specifications.

Horizontal Shaft Mounting

The drawing below shows the breather, magnetic drain and oil level plug locations for the four 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 at or below those shown in Table No. 51. Use oil level "B" for speeds above those shown in Table No. 51.

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

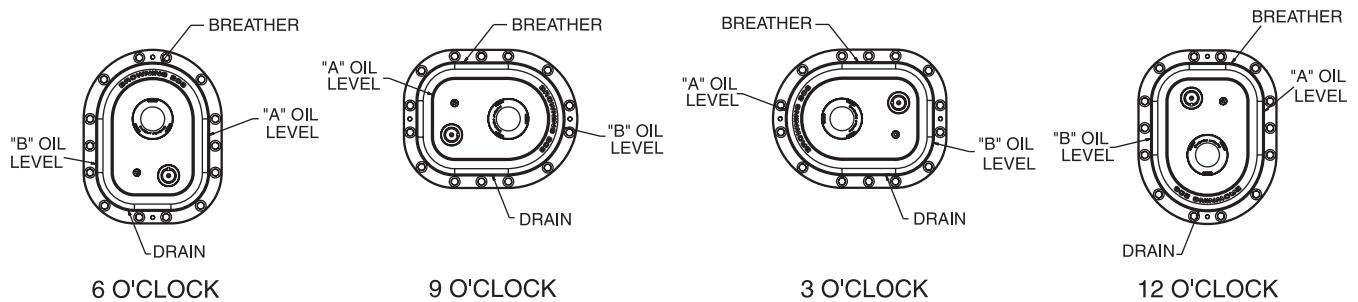


Table No. 50 USE OIL LEVEL 'B' FOR SPEEDS ABOVE THOSE SHOWN BELOW.

REDUCER SIZE	OUTPUT RPM FOR REDUCER RATIOS			
	5:1	9:1	15:1	25:1
407	176	-	63	55
415	156	-	53	46
507	-	-	47	41
608	-	-	46	40

Shaft mount reducers require different amounts of oil in the various mounting positions. For the convenience of having enough oil at the installation site, Table No. 40 shows the approximate amount of oil for the position requiring the most oil.

Table No. 51 Approximate Oil Capacities in Quarts

Output Orientation	Horizontal															
	5:1								9, 15, 25, 35:1							
Ratio	A								B							
Oil Level	A				B				A				B			
Mounting Position	3	6	9	12	3	6	9	12	3	6	9	12	3	6	9	12
407	21.5	18.0	16.0	18.0	13.0	11.0	7.5	11.5	19.0	15.5	16.0	17.5	11.0	9.0	7.5	11.5
415	34.5	29.0	25.5	28.5	21.5	18.5	12.5	19.0	30.5	24.5	25.5	27.5	18.0	15.5	12.5	18.5
507	-	-	-	-	-	-	-	-	47.5	39.0	39.0	43.0	28.5	24.5	19.0	28.5
608	-	-	-	-	-	-	-	-	67.0	58.5	57.0	61.5	42.5	38.0	30.5	40.5

Output Orientation	Vertical			
	5:1		9, 15, 25, 35:1	
Ratio	Input Shaft Up		Input Shaft Down	
Mounting Position	Input Shaft Up		Input Shaft Down	
407	21.50		21.00	
415	42.00		42.00	
507	-		-	
608	-		-	

Notes: CONTACT EPT Technical Services for vertical shaft mounting lubrication instructions.
 SMTP, SMFP, HMTP and CMTF 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, HMTP and CMTF shaft mount reducers.
 For complete lubrication instructions, refer to the installation manual provided with the unit.

Reference page 108 for additional lubrication specifications.

▲WARNING

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.

RELUBRICATION

After approximately one week or 100 hours of operation, drain and replace with fresh oil. Change oil at least once a year thereafter; more often if the atmosphere is damp or dusty. 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 our Technical Services Department for assistance in selecting and installing required material.

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.



Type SMTP, HMTP, CMTF

Lubrication Sizes 107-608



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	407_MTP	415_MTP	507_MTP	608_MTP
5-20	5	5	5	5	5	5	5	5	5	5	5
21-40	5	5	5	5	5	5	5	5	5	5	5
41-60	5	5	5	5	5	5	5	5	5	5	5
61-80	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	407_MTP	415_MTP	507_MTP	608_MTP
5-20	6	6	6	6	6	6	6	6	6	6	6
21-40	6	6	6	6	6	6	6	6	6	6	6
41-60	6	6	6	6	6	6	6	6	6	6	6
61-80	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 & Ratings

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

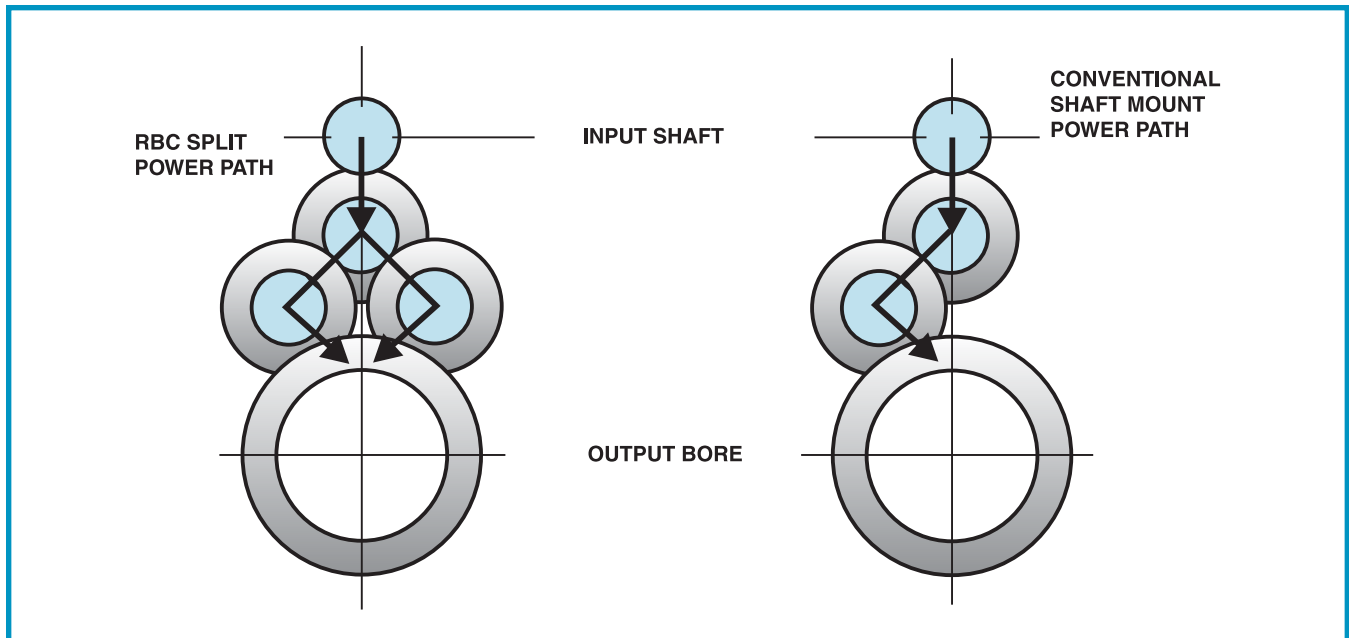
Browning products meet all your needs for rotating biological contactor drives.



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Superior RBC Drive Solutions

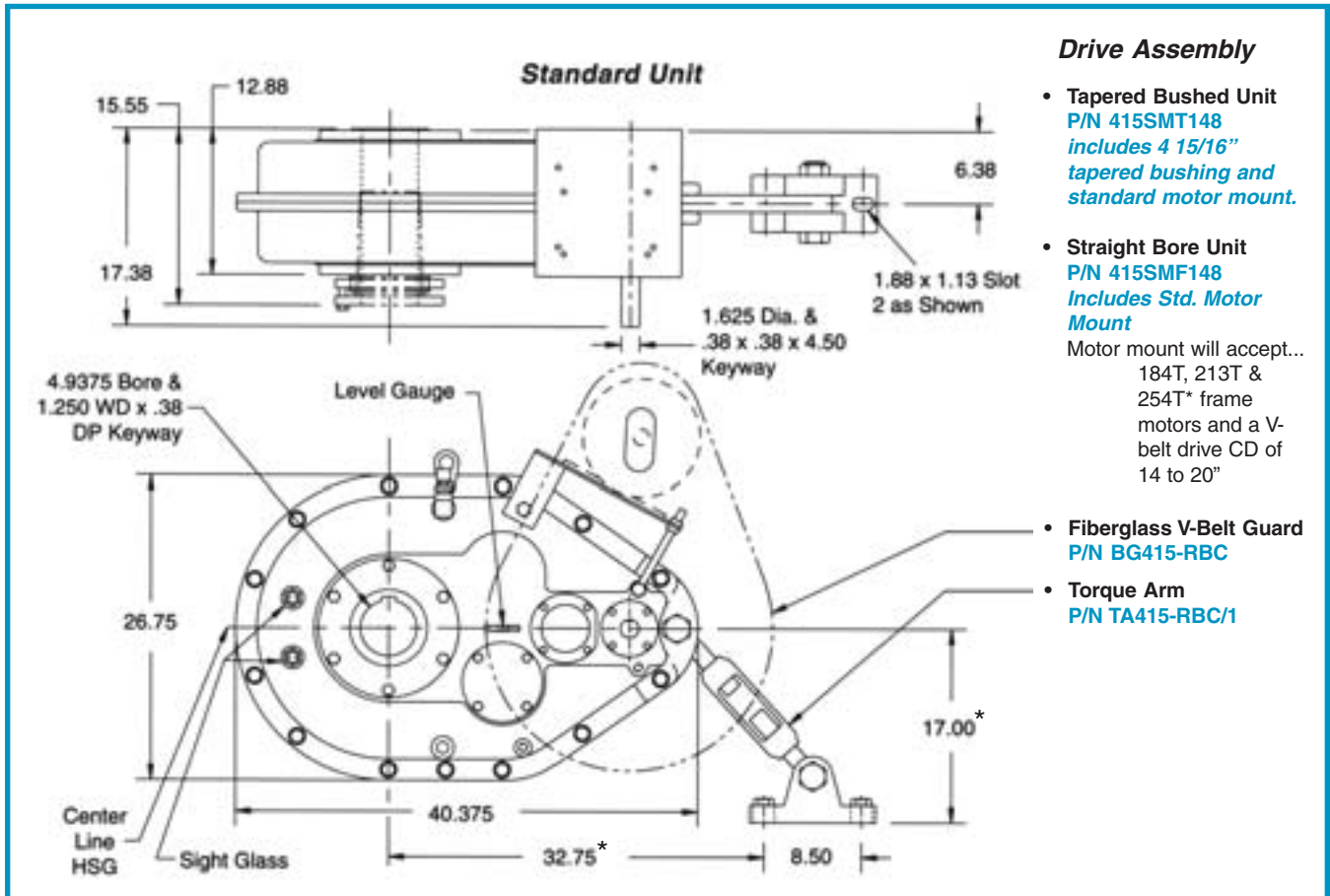
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Provides twice the tooth engagement when compared to conventional drives
- **Leak Free Operation**
Plunge ground shafts with dual lip oil seals
- **High Quality Bearings**
100,000 hour B-10 life at 5HP Class II service
- **Generous Shaft Diameters**
Support overhung loads generated by V-belt drive assembly

BROWNING RBC DRIVE RATINGS					
MOTOR HP/RPM	AGMA SERVICE FACTOR	V-BELT DRIVE RATIO	GEAR DRIVE RATIO	FINAL OUTPUT SPEED	FINAL OUTPUT TORQUE RATING
5/1150	Class II	5.2:1	148:1	1.5 RPM	199,600 in./lbs.
7.5/1150	Class I	5.2:1	148:1	1.5 RPM	297,400 in./lbs.

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 Universal housings allow for left or right-hand installations
 Reducer, belt guard, torque arm, belt drive and motor are to be ordered separately



* If torque arm arrangement is longer than 32.75" in the horizontal, or smaller than 17.00" in the vertical dimension, consult EPT Technical Services.

- **Hostile duty totally enclosed fan cooled motors**
 Designed for wastewater treatment plant operation

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

5 HP/1150 RPM 215T Frame **P/N H5E3D**
7.5 HP/1150 RPM 254T Frame **P/N H7E3D**

All sales are made on our STANDARD TERMS AND CONDITIONS OF SALE in effect at the time a customer's order is accepted. The current Terms and Conditions are set forth below:

STANDARD TERMS AND CONDITIONS OF SALE (August 15, 2001)

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 PRICES 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.

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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.

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9. **CANCELLATION:** 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.

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.



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