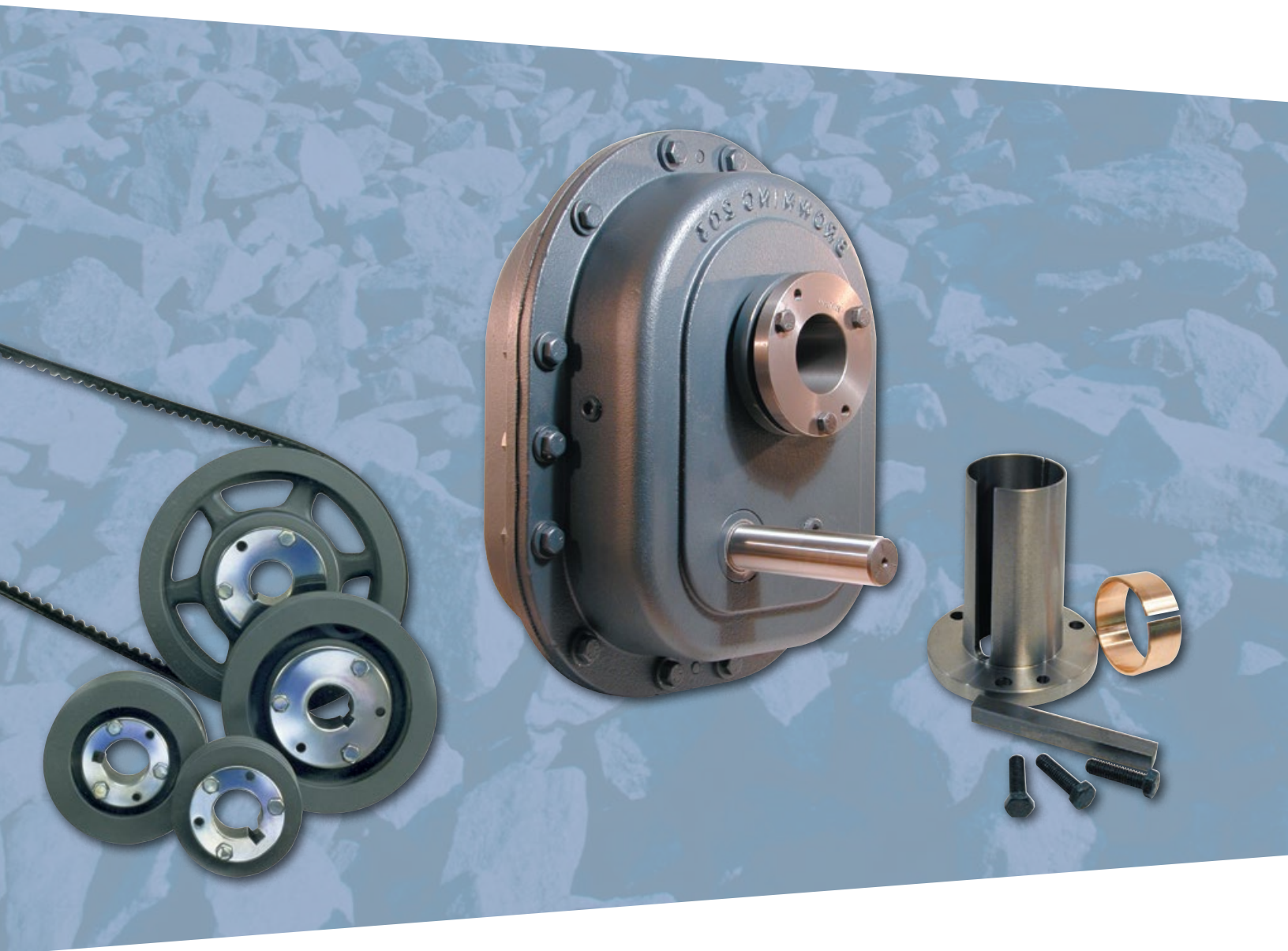


Browning[®]

TorqTaper[®] Plus Shaft Mounted Reducers



A Regal Brand

REGAL

Browning® gearboxes are designed with a systematic approach for maximum life in rugged industrial environments.

Heavy-Duty Components

The Browning TorqTaper® Plus speed reducer is built around AGMA class 12 gearing and employs tapered roller bearings on all shafts.

Enhanced Sealing System

Since contaminants are constantly on the attack against oil seals and lubricants, the TorqTaper Plus is protected by a patented triple seal system that extends the life of the bearings and gears.

Patented Mounting System

The TorqTaper Plus mounting system is based on a single tapered bushing for straightforward, error-free installation and removal. This system requires no special tools and is designed for simplicity in limited work spaces. These design features work in concert to help provide you with maximum uptime and minimal maintenance.

Innovative Input Configurations

TorqTaper Plus shaft mounted speed reducers are also available with c-face and hydraulic input configurations for use in a variety of applications.

Easy Reducer Interchange:

- Determine Competitive Part Number
- Determine Reducer Ratio
- Determine Motor HP
- Select Browning reducer for interchange
- Select Components
- Bushing
- Torque Arm
- High Or Low Motor Base
- Motor Mount
- Belt Guard
- Belt drive may be selected with catalog #9242

Follow these instructions to select a new Browning Shaft Mount Reducer for your application or interchange with your current reducer

TO SELECT A REDUCER BY MOTOR HP, SERVICE FACTOR AND OUTPUT SPEED:

Go to the Selection Chart.

For Class I Service Factor selections:

Select the row with the Motor HP for your application.

Go across the row to the column with the output RPM of your application.

Go to the column header to locate the Reducer Case Size.

For Class II Service Factor selections:

Multiply the Motor HP by 1.4 and select the reducer using the Factored Motor HP.

For Class III Service Factor selections:

Multiply the Motor HP by 2.0 and select the reducer using the Factored Motor HP.

If the Factored Motor HP is between given Motor HP sizes, use the next larger Motor HP to select the reducer.

For example: 3 HP Motor @ Class II Service Factor. $3 \times 1.4 = 4.2$ Factored Motor HP. Use the 5 HP line to select a reducer.

NOTE: Yellow shaded areas require a Fan Kit.

Go to the Part Number Chart to obtain the complete part numbers required.

Select the row with the Reducer Case Size determined from the Selection Chart.

Go across the row to select the required parts for the application.

REDUCER: Complete the reducer part number by adding the ratio to the end of the part number.

For an Output RPM between 5 and 50, select a 35:1 ratio.

For an Output RPM between 51 and 80, select a 25:1 ratio.

For an Output RPM between 81 and 130, select a 15:1 ratio.

For an Output RPM between 131 and 200, select a 9:1 ratio.

For an Output RPM between 201 and 400, select a 5:1 ratio.

BUSHING: Complete the bushing part number by adding the shaft size to the end of the part number.

Shaft size is designated by 3 digits: First digit is whole number in inches of the shaft diameter.

The second and third digits are the fractional number of the shaft diameter in 16ths of an inch.

For example: A 1.4375" (1 7/16") shaft would be represented as 107.

TORQUE ARM: Required on shaft mount applications to react to the driven torque.

BACKSTOP: If required. Refer to any applicable safety rules and regulations.

MOTOR MOUNT: Low Base will provide shorter belt drive center distances. High Base will provide longer belt drive center distances.

BELT GUARD: If required. Refer to any applicable safety rules and regulations.

FAN KIT: If required by Selection Chart.

INPUT SHAFT DIAMETER FOR DRIVEN BUSHING: Use to select bushing to mount driven sheave of a belt drive.

To select a reducer to interchange with your current reducer:

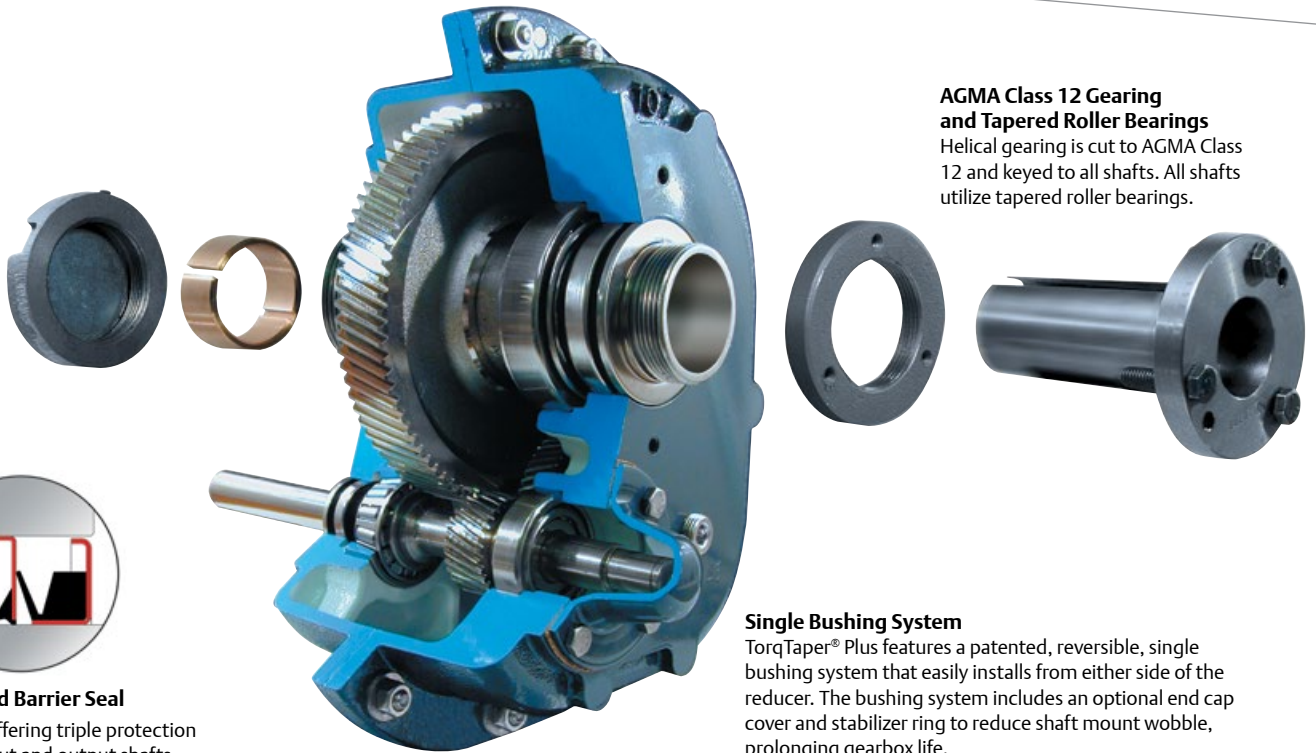
Go to the Part Number Chart.

Select the manufacturer of your current reducer from one of the far right columns.

Go across the row to obtain the complete part numbers to interchange this reducer.

Contact Application Engineering at 800-626-2093 or at www.RegalPTS.com for assistance.

Motor HP	Motor kW	107		115	
		Min Output RPM	Max Output RPM	Min Output RPM	Max Output RPM
		1/4	0.19	5	400
1/3	0.25	5	400		
1/2	0.38	5	400		
3/4	0.57	8	400	6	7
1	0.76	10	400	7	9
1 1/2	1.14	16	400	11	15
2	1.51	21	400	15	20
3	2.27	32	400	23	31
5	3.79	55	400	39	54
7 1/2	5.68	84	400	59	83
10	7.57	115	400	81	114
15	11.4			131	400
20	15.1			245	400
25	18.9			338	400
30	22.7				
40	30.3				
50	37.9				
60	45.4				
75	56.8			CONTACT APPLICATION	
100	75.7			GEAR REDUCER SELEC	
125	94.6				
150	114				
200	151				
250	186				
300	224				
350	261				
400	298				
450	336				
500	373				
600	447				



AGMA Class 12 Gearing and Tapered Roller Bearings
Helical gearing is cut to AGMA Class 12 and keyed to all shafts. All shafts utilize tapered roller bearings.



Patented Barrier Seal

Design offering triple protection on all input and output shafts

- Rotating outer flinger slings away contaminants
- V-ring face seal with a grease-filled labyrinth
- Final protective layer – spring loaded, double-lipped contact seal

Single Bushing System

TorqTaper® Plus features a patented, reversible, single bushing system that easily installs from either side of the reducer. The bushing system includes an optional end cap cover and stabilizer ring to reduce shaft mount wobble, prolonging gearbox life.



Additional Features and Benefits:

- C-face and hydraulic TorqTaper Plus reducers eliminate belt guards, belt drives and motor mounts
- Increased horsepower ratings allow downsizing in many applications
- Available in a wide variety of ratios: 5, 9, 15, 25 and 35:1
- Improved backstop design uses an inner race for easy installation and removal
- Increased input shaft diameters; higher overhung load ratings
- All three versions of the standard shaft mount convert to a screw conveyor drive using stock components
- Standard two-year warranty



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www.RegalPTS.com

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