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.
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:**

1. Go to the Selection Chart.
2. For Class I Service Factor selections: Select the row with the Motor HP for your application.
3. Go to the column header to locate the Reducer Case Size.
4. Go across the row to the column with the output RPM for your application.
5. Bushing: Complete the bushing part number by adding the shaft size to the end of the part number.
6. For an Output RPM between 131 and 200, select a 9:1 ratio.
7. For an Output RPM between 201 and 400, select a 35:1 ratio.
8. Add the ratio to the end of the part number.

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Motor kW</th>
<th>Min Output RPM</th>
<th>Max Output RPM</th>
<th>Min Input RPM</th>
<th>Max Input RPM</th>
<th>Min Horsepower</th>
<th>Max Horsepower</th>
<th>Min Torque Arm</th>
<th>Max Torque Arm</th>
<th>Min Backstop</th>
<th>Max Backstop</th>
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<td>550</td>
<td>1100</td>
<td>575</td>
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<td>1.25</td>
<td>3.5</td>
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<td>7.5</td>
<td>17</td>
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<td>40</td>
<td>80</td>
<td>50</td>
<td>100</td>
<td>150</td>
</tr>
</tbody>
</table>

For an Output RPM between 21 and 200, select a 9:1 ratio.

For an Output RPM between 201 and 400, select a 35:1 ratio.

For an Output RPM between 315 and 400, select a 9:1 ratio.

For an Output RPM between 400 and 1000, select a 35:1 ratio.

NOTE: The numbers in parentheses are the fraction of an inch.

**Reduction Ratio:**

- For an Output RPM between 21 and 200, select a 9:1 ratio.
- For an Output RPM between 201 and 400, select a 35:1 ratio.
- For an Output RPM between 315 and 400, select a 9:1 ratio.
- For an Output RPM between 400 and 1000, select a 35:1 ratio.

**Contact Emerson Application Engineering at 800-626-2093 or at www.emerson-ept.com for assistance.**
Choose Browning®
TorqTaper Plus Shaft Mounted Speed Reducers

Browning®
Emerson Industrial Automation
Power Transmission Solutions
Telephone 1-800-626-2120
www.emerson-ept.com

Additional Features and Benefits:

- 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.

- Patented Barrier Seal
  Design offering triple protection on all input and output shafts
  - Rotating outer finger slings away contaminants
  - V-ring face seal with a grease-filled labyrinth
  - Final protective layer – spring loaded, double-lipped contact seal

- 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.

- 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

APPLICATION CONSIDERATIONS
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