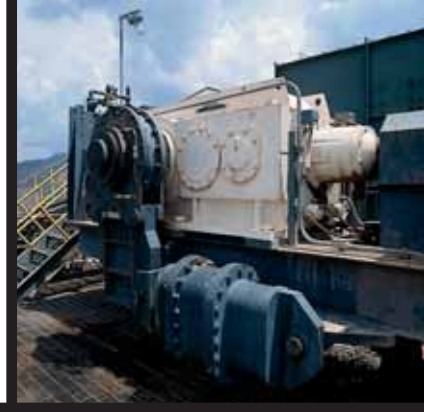


# Gear Drives - Rugged Design, Reliable Construction



High-quality, reliable and rugged gear designs are installed in the world's most challenging applications. More than 100 years of experience, a full product line, technical support, and local service allow for maximum performance and the lowest total cost.

## Parallel & Right Angle Solutions

### Falk™ Drive One® Universal Drives

Ratios: 1.25:1 to 140:1  
Power: 20 to 1,900 kW  
(25 to 2,500 hp)  
Torque: 5 to 94 kNm  
(58,000 to 840,000 lb-in)

- 9 sizes
- Right Angle or parallel shaft
- Horizontal or vertical output
- Solid or hollow output shafts
- Base or shaft mounted
- Exclusive 6-sided mounting for unmatched versatility
- Many pre-engineered accessories to provide complete application solutions
- Lowest lifetime cost
- Quick Ship Program - Many sizes/types/ ratios available for premium delivery 5 days or less



### Falk™ Drive One® Conveyor Drives

Ratios: 5.6:1 - 71:1  
Power: 121 to 6,626 kW  
(157 to 8,700 hp)  
Torque: 112 to 245 kNm  
(991,000 to 2,169,000 lb-in)

- 4 sizes
- Horizontal output
- Solid output shafts
- Base or shaft mounted
- 60,000 hour L10 life at 1.5 service factor
- Robust universal left/right split design
- Cool running through integrated oil distribution system and low sump levels



### Falk™ Drive One® High Torque Drives

Ratios: 160:1 - 700:1 (higher ratios available)  
Power: to 1000 hp  
Torque: 103 to 458 kNm  
(910,000 to 4,050,000 lb-in)

- 6 sizes
- Horizontal output
- Solid or hollow output shafts
- Base or shaft mounted
- High torque from a compact package
- Cost-effective alternative to hydraulic and conventional drives
- Quick delivery from stock components



## Falk™ Drive One® High Thermal Drives

Ratios: 1.25:1 - 25:1  
Power: 37 to 1,900 kW  
(50 to 2,500 hp)  
Torque: 1.3 to 23 kNm  
(12,000 to 200,000 lb-in)

- 8 sizes
- Horizontal output
- Solid output shafts
- Base mounted
- Low cost alternative to oversize drives or drives with complex or expensive cooling accessories
- Generous sump to augment heat dissipation
- Designed to satisfy tough thermal specifications



## Falk™ Drive One® Alignment-Free™

Higher Ratios available  
Power: 22 kW to 630 kW  
(30 to 800 hp)  
Torque: 5.6 to 130 kNm  
(30,000 to 1,150,000 lb-in)

- 11 sizes
- Horizontal output
- Solid and hollow outputs
- Right angle shaft mounting
- Soft start conveyor drive solution
- Universal left/right design, no foundation or shaft alignment required
- NEMA:
  - C-Face
  - D-Face
- IEC
  - B Flange



## Falk™ A+ Plus Parallel/Right- Angle Drives

Ratios: 1.80:1 - 437:1  
Power: to 14,168 kW  
(to 19,000 hp)  
Torque: 2.9 to 621 kNm  
(26,000 to 5,500,000 lb-in)

- 17 sizes
- Horizontal or vertical output
- Solid or hollow output shafts
- Base or shaft mounted
- Fabricated steel housing
- Magnum no-leak seals
- An effective solution for nearly every application



# Gear Drives - Rugged Design, Reliable Construction



## Concentric Solutions

### Rexnord® Planetgear™ 7000 Speed Reducer

Ratios: 9:30:1 to 7052:1  
Power: 750 kW (1,000 hp)  
Torque: to 102 kNm (905,000 lb-in.)

- 14 sizes
- Handles high-shock loads, 250% overload capacity
- Modular design leads to ease of assembly
- Locally available
- Optional scoop, flange, or baseplate mounted motors
- Compact Power Dense package is lighter weight and smaller than traditional reducers
- Taconite Duty Seals provide optimal performance and long seal life
- Internal Backstop is easily field installed. Pawl design is compatible with extreme pressure and synthetic oil



### Rexnord® Shaft Mounted Planetgear™ (SMP)

Ratios: 11 to 1785:1  
Power: to 375 kW (500 hp)  
Torque: 15-339 kNm (140,000 to 3,000,000 lb-in.)

- 5 sizes
- Concentric configurations
- Taconite duty seals
- Optional scoop, flange, or top-mounted motors
- Custom solutions available to meet exact application requirements. Modifications include torque arm, c-face input, and hollow output shaft bore sizes
- Alternative to Traditional Shaft Mounts. Available in 5-7/16" and 6-7/16" hollow bore
- Hydro Advantage, an innovative hydraulic removal system, is integral to the low speed shaft and applies a separating force between the end of the driven shaft and reducer.



## Shaft-Mounted and Mixer Solutions

### Falk™ UltraMax® Concentric Drives

Ratios: 1.5:1 to 195:1  
 Power: to 375 kW (500 hp)  
 Torque: to 60,000 Nm (530,000 lb-in)

- 12 sizes
- Concentric configurations
- Optional scoop, flange, or baseplate mounted motors
- Helical gearing minimizes noise and vibration
- Available in low ratio for high speed applications
- Heavy-duty bearing and seal protection



### Falk™ Quadrive® Shaft-Mounted Drives

Ratios: 5, 14, 25:1  
 Power: to 224 kW (300 hp)  
 Torque: to 40,675 Nm (360,000 lb-in)

- 11 sizes for flange or shaft mounting
- Horizontal or vertical mounting
- Bushing bores from 25 to 160 mm (1 inch to 6-1/2 inch)
- 5 to 350 rpm output speeds
- Torque Assist TA Taper® bushing guarantees removal



### Falk™ Ram® Mixer Drives

Ratios: 5.06:1 to 1,207:1  
 Power: to 4 100 kW (5,500 hp)  
 Torque: to 429,000 Nm (3,800,000 lb-in)

- 18 sizes in parallel shaft or right-angle shaft configurations
- Solid and hollow shafts
- Top, bottom, or side entry mixer mountings
- Rugged, rigid housing that includes:
  - No leak drywells
  - Extended bearing life
  - Large diameter shafting



# Gear Drives - Rugged Design, Reliable Construction



## Falk™ Ultramite® Gearmotors

### UC Helical Concentric

Ratios: 1.4:1 up to 16,000:1  
Power: 19 kW to 37 kW (1/4 hp to 50 hp) capacity  
Torque: to 5 kNm (40,000 lb-in)

- 10 sizes
- C-face and solid inputs, inch or metric
- Base and optional flange mounted designs
- Horizontal or vertical mountings



### UB Right-Angle Helical Bevel

Ratios: 8:1 to 10,000:1  
Power: 19 kW to 74 kW (1/4 hp to 100 hp) capacity  
Torque: to 13 kNm (120,000 lb-in)

- 9 sizes
- C-face and solid inputs, inch or metric
- Straight bored hollow, tapered hollow shaft with TA bushings, or solid output shafts
- Base, shaft or flange mounted designs
- Horizontal or vertical mounting



### UJ Shaft-Mounted Offset Helical

Ratios: 5:1 to 20,000:1  
Power: 19 kW to 30 kW (1/4 hp to 50 hp) capacity  
Torque: to 5 kNm (48,000 lb-in)

- 6 sizes
- C-face inputs provide convenient, beltless packages
- Base, shaft, or flange mounted designs
- Shaft-mounted designs utilize Falk™'s unique TA Taper® bushing
- CEMA screw conveyor design
- Horizontal or vertical mounting



### UW Right-Angle Helical Worm

Ratios: 8:1 through 60,000:1  
Power: 19 kW to 37 kW (1/4 hp to 50 hp) capacity  
Torque: to 5 kNm (46,000 lb-in)

- 8 sizes
- C-face and solid inputs, inch or metric
- Base, shaft or flange mounted designs
- Straight bored hollow, tapered hollow shaft with TA bushings, or solid output shafts
- Horizontal or vertical mounting



## Worm Gear and Accessories

### Falk™ Omnibox® Worm Gear Drives

Ratios: 5:1 to 3,600:1  
 Power: to 81 kW (100 hp)  
 Torque: to 10 168 Nm (90,000 lb-in)

- 14 sizes for foot, flange, or shaft mounting
- 34 mm thru 254 mm (1.33 inch thru 10 inch) centers
- Vertical or horizontal inputs and outputs



### Falk™ True Hold® Low Speed Backstops

- 16 sizes
- Bores: 38 to 510 mm (1.5 in to 20.0 in)
- Torque: 4 068 Nm to 1 012 847 Nm (3,000 to 747,000 lb-ft)
- Overrunning speeds from 1 to 2,800 rpm



### Falk™ GMax® 6000- Gear Drive Lubricants

Horsepower, Heat, Moisture, and abrasive contamination are constantly working to break down your gear drive lubricant. With Falk™ GMax 6000, you don't have to worry! At Falk™, we manufacture the highest quality gear drives in the world! GMax 6000 is designed to provide superior wear protection in the most demanding gear drive applications. The gearing in Falk™ drives leave the factory filled with GMax 6000 lubricants and are warranted for a period of ten years from the date of shipment against failure due to excessive wear or surface distress.

### Falk™ GMax® 9000- Open Gearing Lubricant

Now we can offer the perfect lubricant to protect heavy-duty gearing - GMax 9000. GMax 9000 is specially formulated to provide the best wear prevention for open gearing and pinions in the industry. It provides this superior wear prevention because of superior viscosity stability and the low coefficient of friction we have designed into it.

### Falk™ AirMax® Breather

Unique Moisture & Particulate Protection for Enclosed Gear Drives

Reduce premature gear drive failure. During the "inhalation" cycle the AirMax media blocks moisture from entering. During the "exhalation" cycle the media allows moisture to exit.



### Three- Year Warranty



Three-year warranties are offered on the following heavy-duty geared drive products:

- Falk™ Drive One®
- Falk™ A+Plus®
- Rexnord® Planetgear™
- Rexnord® Planetgear™ SMP
- Falk™ UltraMax®
- Falk™ Quadrive®
- Falk™ Ram Mixer®
- Falk™ True Hold®

# Gear Drives - Rugged Design, Reliable Construction



## Product Services

**FALK RENEW**

**PRAGER**

### Service Parts

Genuine Falk™, Link-Belt®, and Rexnord® service parts are available for all models and generations of enclosed gear drives. Reverse-engineering of non-current, obsolete or competitive service parts are available from our Prager manufacturing and engineering group.

**Rexnord®  
Link-Belt® FALK®**

### Remanufactured Gear Drives

Falk™ Renew® can supply remanufactured gear drives for many Falk™, Link-Belt and Rexnord branded models. A remanufactured gear drive utilizes a reconditioned and recertified housing and all new revolving elements. Remanufactured gear drives carry a three-year, "New Unit" warranty.



### Gear Drive Repair

Falk™ Renew® and Prager specialize in repairing Falk™, Link-Belt®, and Rexnord® gear drives, but can also perform quality repairs on all makes and models. We operate multiple regional repair locations in North America. Our standard repair warranty is 18 months from shipment of the repaired gear drive.



### Field Service

Renew® and Prager field service groups provide a breadth of services. We can provide everything from installation assistance to complete in-place repair and rebuild.



## Falk™ Mill & Custom Products

### Gear Drive and Coupling Maintenance Training

This school is four days of intensive hands-on gear drive and coupling maintenance training for today's working maintenance mechanic. The class is designed to provide participants with a basic understanding of the fundamentals of gear drive disassembly and assembly, including lubrication issues and failure analysis of gears, bearings, shafts and seals. Sessions feature parallel and concentric shaft gears, complete with setting bearing floats, setting of mounting distance and backlash for spiral bevel gears.



### Falk™ Mill Products

Critical power transfer systems can't afford to be down...period! That's why heavy industry around the world relies on Falk™ Mill Products to redefine total lifetime value. Products include gears, pinions, reverse engineering, steel castings, split kiln tires, and drives. Full service, state-of-the-art manufacturing facilities in the United States and Australia offer exceptional global availability of world-class quality power transmission solutions for heavy industry.



### Custom Drives

Our design, development and manufacturing capabilities are not limited to producing our standard products. From computer-aided design to state-of-the-art quality control operations, few manufacturers are as well equipped as Rexnord. Providing practical solutions to difficult design problems is routine. Custom Drives that develop torque measured in millions of Newton-meters or inch-pounds is all in a day's work. Whatever the project size or special problems, if it involves custom engineering for power transmission, Rexnord offers a unique drive solution.

