

Warner Electric

Twiflex Limited

Bauer Gear Motor

Ameridrives Couplings

TB Wood's

Power Transmission Solutions for the Overhead Crane & Hoist Market



 **Altra**[®]
Industrial Motion
The Power of Experience

ALTRA INDUSTRIAL MOTION IS AT THE FOREFRONT OF THE LEADING POWER TRANSMISSION TECHNOLOGY PROVIDERS FOR OVERHEAD CRANE AND HOIST APPLICATIONS

Altra Industrial Motion, as a leading multinational designer and producer of advanced electromechanical power transmission components, has the technology and engineering capability to provide state-of-the-art drive and braking solutions for all configurations of overhead cranes and hoists. Altra's demonstrated expertise in this industry positions its multiple brands to meet the needs of this demanding marketplace.

Extensive Application Experience

Bauer Gear Motor is a leading supplier of high quality gear motors with extensive success in the crane & hoist market. Utilizing Bauer's application expertise, customers can work with Bauer to choose the correct gear motor that enables Bauer to deliver a complete solution to fit all types of environments and demands for standard cranes or custom cranes.

With in-house motor manufacturing, special motor characteristics can be designed and optimized for the demands of the application.

Warner Electric's line of spring set electromagnetic released brakes are proven performers on hundreds of cranes throughout the world. Warner Electric's experience with major crane OEMs over the years has enabled them to develop reliable products for very demanding environments such as offshore and nuclear applications.



For decades, Twiflex Limited has provided crane manufacturers with reliable caliper braking solutions. With a large range of standard products combined with a strong engineering bias, Twiflex provides leading engineered solutions to address customer specific requirements. Twiflex can package brakes, discs, mounting pedestals, and power packs in house from within the Twiflex' product portfolio.

For the high load that crane applications demand, Ameridrives Amerigear Couplings are your ideal choice. Fully crowned gear teeth provide the highest misalignment and torque ratings. This design also allows for smooth axial travel required in most crane applications. Ameridrives Couplings provides standard catalog design product along with custom engineered products to address all crane/hoist application and design requirements.

The global presence of these brands enables Altra to provide reliable support and service in all relevant regions of the world.

Advanced Testing and Research

Altra group companies have the capability to rapidly produce prototype units for test and evaluation by customers or by using our own computer-controlled testing equipment to simulate the operating conditions of a specific client-defined application. Specifically, Twiflex has extensive test facilities for the validation of products and friction materials and comprehensive test regimes for pre-dispatch for large brakes. Ameridrives also has a test lab that provides testing capabilities for crane applications to test static torque for gear couplings.

Worldwide Customer Support

Altra engineering teams, manufacturing facilities and commercial offices are strategically located around the world to provide exceptional customer service, engineering and product support.

World Class Engineering

Our dedicated teams of market-focused engineering and manufacturing staff provide innovative solutions to the technical challenges faced by overhead crane and hoist manufacturers. We utilize a flexible approach to problem solving such challenges, enabling our teams to provide application and technical support from concept to completion.

Many of the power transmission products in our comprehensive range can be customized to meet specific and unique requirements of individual crane and hoist designs.



State-of-the-Art Manufacturing Technology

Altra's ISO Certified manufacturing facilities feature the latest technology including precision machining centers.

Our highly skilled manufacturing teams utilize the 'Altra Business System' to ensure that they are focused and aligned around key improvement priorities. ABS tools (e.g., continuous flow, standardized work and kanban) provide the means by which we achieve the improvements as we engage our entire workforce (via Total Associate Involvement) to actively and aggressively drive us towards world-class performance.



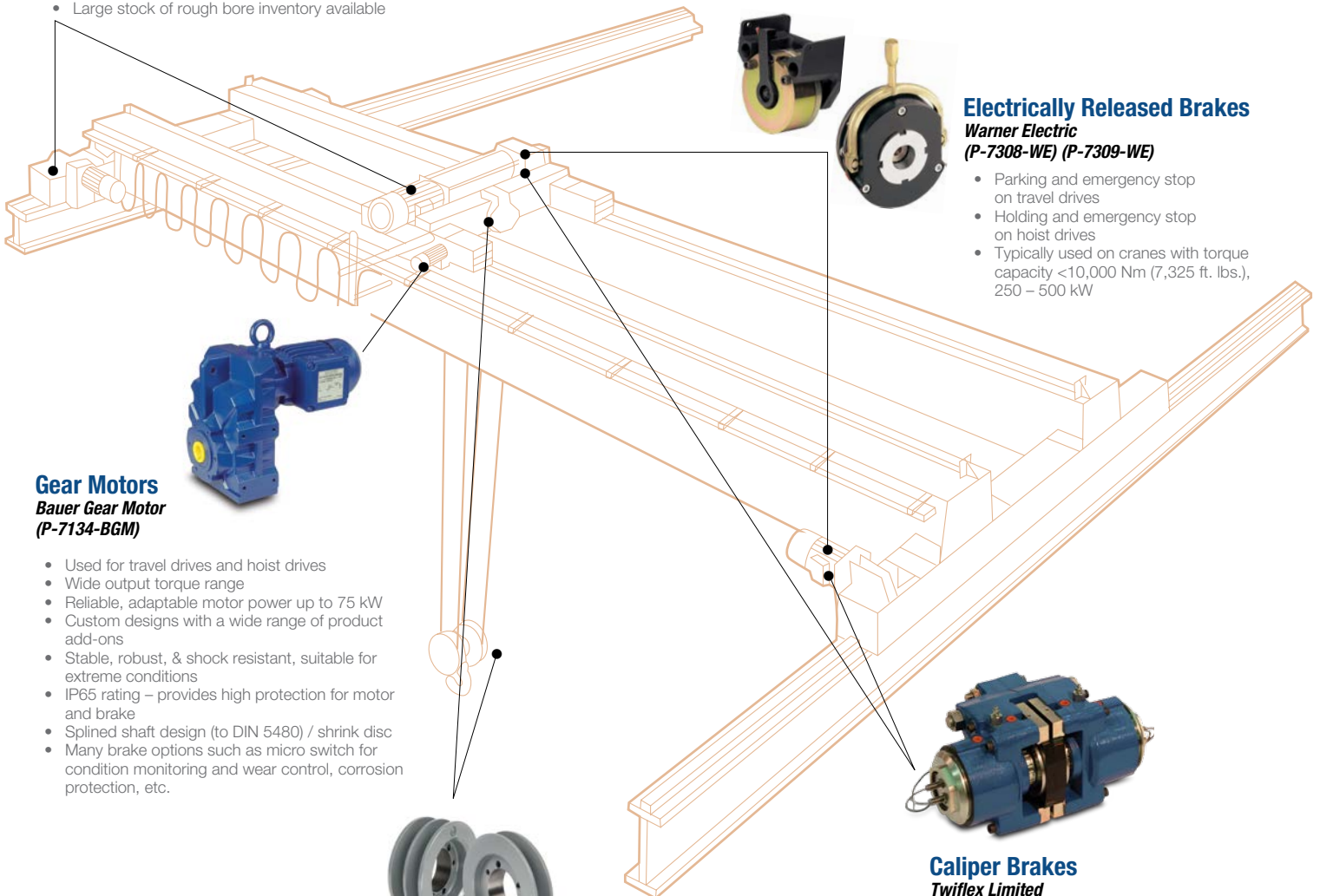
Amerigear Gear Couplings

Ameridrives

- Connects motor and gearbox on hoist drives, bridge drives, and long travel drives
- The torsional stiff design of a gear coupling is ideal for positive engagement required in crane applications
- Over 10" diameter bore capacity
- Highest torque ratings at a full 1-1/2 degree of misalignment
- Torque capacity of over 1,000,000 in-lbs
- High axial capacity
- Standard design allows for installation flexibility (reverse mount hubs for unexpected shaft gaps)
- AGMA standard design for interchangeability
- Large stock of rough bore inventory available

The leading brands of altra industrial motion offer expertise in standard and custom product solutions for main hoist drives, bridge drives, and long travel drives for all types of crane & hoist designs

- Overhead Traveling Bridge Cranes (Single and double girder designs)
- Gantry Cranes
- Jib Cranes
- Monorail Lifting Systems
- Top Slewing Cranes
- Chain and Wire Rope Hoists



Gear Motors

Bauer Gear Motor (P-7134-BGM)

- Used for travel drives and hoist drives
- Wide output torque range
- Reliable, adaptable motor power up to 75 kW
- Custom designs with a wide range of product add-ons
- Stable, robust, & shock resistant, suitable for extreme conditions
- IP65 rating – provides high protection for motor and brake
- Splined shaft design (to DIN 5480) / shrink disc
- Many brake options such as micro switch for condition monitoring and wear control, corrosion protection, etc.

Electrically Released Brakes

Warner Electric (P-7308-WE) (P-7309-WE)

- Parking and emergency stop on travel drives
- Holding and emergency stop on hoist drives
- Typically used on cranes with torque capacity <10,000 Nm (7,325 ft. lbs.), 250 – 500 kW

Sheaves

TB Wood's

- Used in upper and lower blocks
- Constructed of fine grain, high tensile cast iron and carefully engineered to assure maximum performance over a long life span
- Stock and MTO sheaves
- Integrated foundry and machining
- Pour multiple grades of Cast iron and Ductile iron

Caliper Brakes

Twiflex Limited

- Parking and emergency stop on long travel motion and bridge drives
- Holding and emergency stop on hoist drives
- Electric, pneumatic and hydraulic actuation
- Unit braking forces from 80 N to 800 kN
- Custom finishes and protection to suit the installed environment

Belted Drives and Sheaves

TB Wood's

Belted Drives
Chambersburg, PA - USA
1-888-829-6637 – Press #5
For application assistance:
1-888-829-6637 – Press #7

Couplings

Ameridrives Couplings

Mill Spindles, Ameriflex, Ameridisc
Erie, PA - USA
1-814-480-5000
Gear Couplings
San Marcos, TX - USA
1-800-458-0887

Ameridrives Power Transmission

Universal Joints, Drive Shafts, Mill Gear Couplings
Green Bay, WI - USA
1-920-593-2444

Bibby Turboflex

Disc, Gear, Grid Couplings, Overload Clutches
Dewsbury, England
+44 (0) 1924 460801
Boksburg, South Africa
+27(0) 11 918 4270

Guardian Couplings

Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings
Michigan City, IN - USA
1-219-874-5248

Huco Dynatork

Precision Couplings and Air Motors
Hertford, England
+44 (0) 1992 501900
Chambersburg, PA - USA
1-888-829-6637

Couplings Cont.

Lamiflex Couplings

Flexible Couplings, Bearing Isolators, and Coupling Guards
Cotia, SP - Brasil
+55 (11) 4615-6300

TB Wood's

Elastomeric Couplings
Chambersburg, PA - USA
1-888-829-6637 – Press #5
For application assistance:
1-888-829-6637 – Press #7
General Purpose Disc Couplings
San Marcos, TX - USA
1-888-449-9439

Electromagnetic Clutches and Brakes

Inertia Dynamics

Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes
New Hartford, CT - USA
1-800-800-6445

Matrix International

Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes
Brechin, Scotland
+44 (0) 1356 602000
New Hartford, CT - USA
1-800-825-6544

Warner Electric

Electromagnetic Clutches and Brakes
New Hartford, CT - USA
1-800-825-6544
For application assistance:
1-800-825-9050
Saint Barthélemy d'Anjou, France
+33 (0)2 41 21 24 24
Precision Electric Coils and Electromagnetic Clutches and Brakes
Columbia City, IN - USA
1-260-244-6183

Engineered Bearing Assemblies

Kilian Manufacturing

Engineered Bearing Assemblies
Syracuse, NY - USA
1-315-432-0700

Gearing

Bauer Gear Motor

Geared Motors
Esslingen, Germany
+49 (711) 3518-0
Somerset, NJ - USA
1-732-469-8770

Boston Gear

Enclosed and Open Gearing, Electrical and Mechanical P.T. Components
Charlotte, NC - USA
1-800-825-6544
For application assistance:
1-800-816-5608

Nuttall Gear and Delroyd Worm Gear

Worm Gear and Helical Speed Reducers
Niagara Falls, NY - USA
1-716-298-4100

Heavy Duty Clutches and Brakes

Industrial Clutch

Pneumatic and Oil Immersed Clutches and Brakes
Waukesha, WI - USA
1-262-547-3357

Svendborg Brakes

Industrial Brakes and Brake Systems
Vejstrup, Denmark
+45 63 255 255

Twiflex Limited

Caliper Brakes and Thrusters
Wichita Falls, TX - USA
1-844-723-3483
Twickenham, England
+44 (0) 20 8894 1161

Heavy Duty Clutches and Brakes Cont.

Wichita Clutch

Pneumatic Clutches and Brakes
Wichita Falls, TX - USA
1-800-964-3262
Bedford, England
+44 (0) 1234 350311

Linear Products

Warner Linear

Linear Actuators
Belvidere, IL - USA
1-800-825-6544
For application assistance:
1-800-825-9050
Saint Barthélemy d'Anjou, France
+33 (0)2 41 21 24 24

Overrunning Clutches

Formsprag Clutch

Overrunning Clutches and Holdbacks
Warren, MI - USA
1-800-348-0881 – Press #1
For application assistance:
1-800-348-0881 – Press #2

Marland Clutch

Roller Ramp and Sprag Type Overrunning Clutches and Backstops
South Beloit, IL - USA
1-800-216-3515

Stieber Clutch

Overrunning Clutches and Holdbacks
Heidelberg, Germany
+49 (0) 6221-30470

For information concerning our sales offices in Asia Pacific check our website www.altramotion.com.cn

