

Wichita Clutch

Warner Electric

TB Wood's

Warner Linear

Boston Gear

Ameridrive Couplings

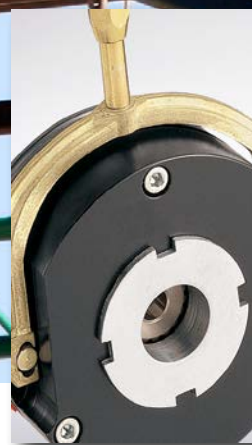
Matrix International

Kilian Manufacturing

Nuttall Gear

*Ameridrive Power
Transmission*

Power Transmission Solutions for the Road and Bridge Construction Industry



THE INDUSTRY LEADING BRAND NAMES OF ALTRA INDUSTRIAL MOTION OFFER POWER TRANSMISSION SOLUTIONS FOR A WIDE VARIETY OF CONSTRUCTION APPLICATIONS

While applications vary widely, equipment in the road and bridge construction sector is built for specific commercial work, typically used in harsh environments, resulting in specialized machines that are custom-designed. Altra Industrial Motion provides precision engineered components to support the critical needs of OEMs and end-users in construction equipment, heavy-duty truck, mobile signs & lights, and mobile lift & crane industries. Where reliability of power transmission components



Couplings and U-Joints

Ameridrives, Ameridrives Power Transmission & TB Wood's

Form-Flex® metal disc couplings consist of two hubs, a spacer and two high strength carbon or stainless steel flexible discs. Available in carbon steel, stainless steel or with corrosion resistant coatings. No maintenance required. Torque up to 270 kNm; 2,400,000 in.lbs.

Turboflex GC® couplings feature unitized, straight-sided flexible discs for ease of installation. These couplings provide increased torque capacity per size by taking advantage of the latest materials and design technologies. Torque up to 180 kNm; 1,600,000 in.lbs.

Americardan® U-joints are designed for operation at high misalignment angles up to 15°. Bearing and seal design resists lubrication loss and contamination. Ideal for use in severe atmospheric conditions. One-piece, yoke and bearing housing construction. Units provide a high degree of strength with minimum distortion under load. Round bearing and wing style designs are available. Torque up to 4,800 kNm; 42,450,000 in.lbs.

Amerigear couplings feature fully-crowned gear teeth which provide maximum load-carrying capacity with minimum size, maximum reliability and long life. Both "O" ring and metal seal models are available. Units also feature a strong, rigid floating sleeve, precision-machined identical hubs, and positive dust-tight seals.

SM Series gear spindles are designed for medium to high torque applications which require rugged strength. Units can operate at high misalignment angles. Advanced gear design increases torque capacity for a given diameter. Models feature fully crowned hub gear teeth and one-piece, molded lip-type seals. Torque up to 7,350 kNm; 65,000,000 in.lbs.

Clutches & Brakes

Warner Electric & Matrix International

SAE "Bolt-On" brakes are spring-applied, hydraulically released multi-disc brakes with industry standard SAE A, B, C, and D input and output flanges enabling these brakes to be 'bolted on' to a wide variety of applications. Fully enclosed brakes are suitable for harsh working environments and are available in wet and dry versions with static torque ranging from 50 to 1600 Nm; 500 to 14,000 in.lbs.

Fractional HP packaged SFP Clutches, Electro Clutches, and Electro Brakes feature precision centered sleeve and ball bearings designed for long life in heavy use conditions. Zero-backlash armature assemblies provide a spring release for reliable and precise disengagement. Torque range from 16 to 465 lb.ft.

1EB Series are spring-applied, electromagnetically released multi-plate brakes. Models available with torque ratings from 1 to 4425 in.lbs. (0.1 to 500 Nm) and diameters from 0.86 in. (22mm). Coil Voltages from 6 to 240 VDC.

ERD Series line of electrically-released, dynamic, spring-set brakes offers a high-performance, cost-effective solution for power-off load holding applications. Designed for dry environments where a severe and dependable braking action is required. Torque range from 4 to 220 lb.ft.

is important to avoid costly downtime and maximize operational efficiency, many of the world's largest OEM's choose the proven products and innovative engineering support offered by Altra brands such as Ameridrives Couplings, Wichita Clutch, TB Wood's, Boston Gear, Warner Electric, Warner Linear, Matrix International, Nuttall Gear, and others.



Gearing
Boston Gear & Nuttall Gear

800 Series helical reducers contain a focused selection of compact, heavy duty helical gear drives that offer long-life performance and simplified maintenance.

Open Gearing including thousands of spur, helical, miter, bevel, worms and worm gears, are available for immediate shipment. Custom gears can be designed and manufactured to the strictest standards for the highest quality.

TDS Reducers are designed for heavy duty applications such as moveable bridge drives. Units feature hardened, precision helical gearing, cast iron housings, and tapered roll bearings. Torque ratings up to 6,000,000 in.lbs. and gear ratios up to 1500:1. Custom engineered drives can be designed to meet specific application requirements.



Sheaves
TB Wood's

Variable Pitch V-Belt Drives feature all cast iron construction with capacities from fractional to over 600 HP. Drives will not freeze or stick and allow for easy, accurate speed changes. Utilizes light duty, classical and narrow V-belts.

Classic and Narrow V-Belt Drives are carefully engineered to assure maximum performance over a long life span. Units are constructed of fine grain, high tensile cast iron. Capacities up to 600 HP from stock, even higher HP with special belts, sheaves, and materials. Bore sizes from 1/2 to 8-1/2 inches. Utilizes single or banded V-belts with either wrapped or cog construction.

Synchronous Drives combine the best of both chain and belt drives, providing positive power transmission and accurate speeds while requiring little maintenance. Load capacities scale up to 1200 HP at 1750 RPM.



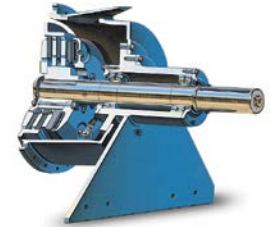
Actuators
Warner Linear

B-Track linear actuators are completely sealed, and designed for tough, high-load applications while providing years of trouble-free performance. Models feature a ball nut screw drive with integral load holding brake and overload clutch. Efficient power use, compact package size, excellent corrosion protection, and rugged spur gearing, provide maximum capability and value. Units available with 2 to 24 inch stroke lengths, up to 2200 lb. load capacity, and up to 2.7 in./sec travel speeds.



Bearings
Kilian Manufacturing & Boston Gear

Custom-engineered bearings and bearing assemblies significantly reduce cost by reducing the number of components. Assemblies also solve difficult, tolerance stack-up problems. Customized bearing shapes and materials, including engineered plastics, are available.



PTOs
Wichita Clutch

Air PTO's are powered by our heavy-duty Standard Vent clutch. With large friction areas for high energy starts and an air actuated clutch for remote or automatic control of the PTO. Bearing supported shaft eliminates sideload on the crankshaft. There are no o-rings or diaphragms to wear out. 14" and 18" 1, 2 & 3 plate clutches available.



Overload Clutches
Boston Gear

Series CCC (Centric centrifugal overload clutch) features controlled, soft-start acceleration with automatic engagement and disengagement. Delayed engagement produces a "no load start" with no slippage at full running speed. Protects against shock loads during start-up. 100% efficient at rated speed.

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

Gearred 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

