

Power Transmission Solutions for the Metal Mills Market

Ameridrives

Bauer Gear Motor

Bibby Turboflex

Delroyd Worm Gear

Formsprag Clutch

Industrial Clutch

Marland Clutch

Nuttall Gear

Stromag

TB Wood's

Twiflex

Warner Electric

Wichita Clutch

 **Altra**[®]
Motion



ALTRA INDUSTRIAL MOTION PROVIDES FULL DRIVETRAIN SOLUTIONS FOR METAL PRODUCERS AND METAL PROCESSING APPLICATIONS



Iron Ore Conveyors
Coal Coke Conveyors
Scrap Conveyors
Coke Barrel Reclaimers
Slag Granulators
Rail Cars
Shredders
Stackers/Reclaimers
Scrap Shears and Choppers
Ladle Hood Winches
Cranes and Hoists
Continuous Slab Casters
Descaling Pumps
Multi-Stand Roughing Mills
Reversing Roughing Mills
Roller Tables
Cold Finishing Mills
Steckle Mills
Transfer Tables/Conveyors
Temper Mills
Piercing Pipe Mills
Annealing Lines
Accumulators
Levelers
Slitters
Pickling Lines
Coilers/Down Coilers
Coating/Galvanizing Lines
Cranes and Hoists
Cold Forming
Transfer Tables/Conveyors

As industry leaders in electromechanical power transmission products, the companies of Altra Industrial Motion have been helping metal mill equipment manufacturers, metal producers and metal processors worldwide achieve great success by increasing their efficiency while at the same time reducing their costs and downtime.

Altra engineered power transmission products are installed in a wide array of mill applications from continuous casters, roughing mills and finishing mills, to annealing, pickling and coating lines, levelers, slitters, accumulators, cold forming mills, coilers and uncoilers.

Altra companies provide a comprehensive offering of mill spindles, couplings, U-joints, gear motors, speed reducers, brakes, torque-limiting devices and backstopping clutches to meet the specific needs of the metal mill industry. Altra products are designed to withstand harsh mill environments including dirt, dust and high temperatures, while providing exceptional personnel safety and equipment protection.

The companies of Altra Industrial Motion offer advanced technologies together with unparalleled engineering capability. Our experienced mill application engineers analyze every application challenge in order to provide the optimal power transmission solutions for our customers.

To help mills control inventories, Altra teams work hard to achieve short lead times and on-time deliveries. Our products are designed to reduce downtime throughout a mill by meeting the requirements for long service intervals, easy maintenance and fast interchanges.

For more information about application-specific power transmission solutions for metal mills from Altra Industrial Motion, including case studies and literature, visit:

www.AltraMetalProducers.com
www.AltraMetalProcessing.com

ALTRA OFFERS A WIDE SELECTION OF RELIABLE POWER TRANSMISSION COMPONENTS TO KEEP METAL MILLS RUNNING EFFICIENTLY... WORLDWIDE.



Couplings, Torque Limiters and Shaft Locking Devices

Ameridrives

- Americardan 5000, 3000 and 2000 universal joints
- Americardan C Series wing bearing universal joints
- Amerigear SF, SL and SM Series mill spindles
- Amerigear® couplings (AGMA)
- Ameriloc® shaft locking devices

Bibby Turboflex

- Series III couplings
- E-Flex couplings
- Modular torque limiters

TB Wood's

- Dura-Flex® couplings
- G-Flex grid couplings

Stromag

- Flexible couplings



Enclosed Gearing and Gear Motors

Nuttall Gear

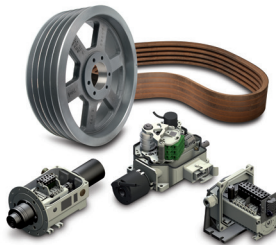
- Helical speed reducers
- TDS/HPD parallel shaft reducers
- Moduline® concentric shaft reducers
- "Zero" or "Limited" backlash drives
- Pinion and twin pinion mill stand drives
- Slag granulator drives
- Descaling pump drives
- Two-speed recoiler drives
- Slitter drives
- Leveler drives
- Accumulator drives

Delroyd Worm Gear

- Speed reducers
- Pinch roll drives
- Mill stand screwdowns and adjust. drives

Bauer Gear Motor

- BF Series shaft-mounted geared motors
- BG Series helical in-line geared motors



Belted Drives and Limit Switches

TB Wood's

- Classical & narrow V-belt sheaves
- QT Power Chain® II belt drive system

Stromag

- Limit switches



Clutches and Brakes

Twiflex

- MXEA Electric caliper brakes
- GMR-SD spring applied, air released caliper brakes
- VCS spring-applied caliper brakes
- MX pneumatic caliper disc brakes
- Hydraulic brake calipers

Stromag

- Thruster drum brakes
- Electromagnetic & hydraulic service and emergency brakes
- Disc brakes
- Motor brakes
- Brake disc with couplings
- Hydraulic buffers

Wichita Clutch

- Standard vent clutch
- AquaMaKKs™ clutches and brakes

Formsprag Clutch

- LLH holdbacks
- Overrunning clutches

Marland Clutch

- BCMA holdbacks

Warner Electric

- ERD/ERDD VAR and ERD/ERDD Gen2 spring-operated, electromagnetically released brakes

Industrial Clutch

- LKB spring set, air released brakes

A Global Footprint to Support Customers Around the World

★ Altra Headquarters

● Altra Engineering & Service Centers

● Altra Manufacturing Facilities

The Brands of Altra Motion

Couplings

Ameridrives
www.ameridrives.com

Bibby Turboflex
www.bibbyturboflex.com

Guardian Couplings
www.guardiancouplings.com

Huco
www.huco.com

Lamiflex Couplings
www.lamiflexcouplings.com

Stromag
www.stromag.com

TB Wood's
www.tbwoods.com

Linear Systems

Thomson
www.thomsonlinear.com

Geared Cam Limit Switches

Stromag
www.stromag.com

Engineered Bearing Assemblies

Kilian
www.kilianbearings.com

Electric Clutches & Brakes

Matrix
www.matrix-international.com

Stromag
www.stromag.com

Warner Electric
www.warnerelectric.com

Belted Drives

TB Wood's
www.tbwoods.com

Heavy Duty Clutches & Brakes

Twiflex
www.twiflex.com

Stromag
www.stromag.com

Svendborg Brakes
www.svendborg-brakes.com

Wichita Clutch
www.wichitaclutch.com

Gearing & Specialty Components

Bauer Gear Motor
www.bauergears.com

Boston Gear
www.bostongear.com

Delevan
www.delevan.com

Delroyd Worm Gear
www.delroyd.com

Nuttall Gear
www.nuttallgear.com

Engine Braking Systems

Jacobs Vehicle Systems
www.jacobsvehiclesystems.com

Precision Motors & Automation

Kollmorgen
www.kollmorgen.com

Miniature Motors

Portescap
www.portescap.com

Overrunning Clutches

Formsprag Clutch
www.formsprag.com

Marland Clutch
www.marland.com

Stieber
www.stieberclutch.com



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