Power REVIEW

THE POWER BRANDS IN POWER TRANSMISSION

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For more information contact us at: info@altramotion.com



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TB Wood's V-Belt Drive Solutions for Forestry and Wood Products Applications

Industry-leading TB Wood's sheaves and belts have become a preferred choice for many forestry and wood products OEMs and end users. Rugged, made-to-order sheaves and premium belts from TB Wood's are designed to provide long service life in a variety of tough applications including chippers, band saws and pellet mills.

TB Wood's has been pouring quality iron since 1857 with a maximum sheave capacity of 107-inch diameter. Experienced application engineers provide optimum designs to meet specific application requirements. Our integrated foundry and machining center allows us to provide fast response time for made-to-order products. Superior quality iron provides longer sheave life, resulting in less frequent replacement. Less maintenance & downtime equals lower total cost of ownership.

All standard TB Wood's narrow and classical V-belt sheaves are designed to ensure that they are capable of delivering the dependable performance in smaller HP chipper and larger mill applications.

For more information, download P-8882-TBW from www.AltraLiterature.com





Universal Joint Rebuild and Repair Service for the North American Metal Shredder Market

Metal shredder facilities in North America, with an eye on increasing output while reducing costs and downtime, can send their damaged Ameridrives or competitor U-joints directly to the Rebuild and Repair facility in Erie, Pennsylvania.

Every hour of shredder downtime can cost thousands of dollars. That's why the Ameridrives facility is set up and staffed to provide fast turnaround of all customer U-joint repairs and rebuilds.

Ameridrives offers emergency rebuild services for those instances when a U-Joint needs to be repaired within a matter of hours and returned. Their dedicated team of technicians work after hours and over the weekend, if necessary.

Comprehensive services include the inspection, remanufacturing and repair of all shafts, spline sections, yokes, flanges, knuckles and journal cross assemblies. We are also able to provide in-house Non-Destructive Testing (NDT) of cracks in the yoke, flange, journal cross and spline.





For more information, download P-8030-AC-NA from www.AltraLiterature.com

Warner Electric Original Compact, Powerful and Proven PK Brake Design Leads the Market

The Original PK Brake...A Very Thin, Powerful and Proven Design

- Installed on more than 500,000 forklift trucks and aerial platforms
- More than 30 key OEMs have adopted this solution since 2010
- Manufactured globally

Long service life with reduced power consumption

- Dual voltage coil/PWM control

Vehicle can be moved without power (due to drained batteries)

- Mechanical brake release by screw or lever available as an option

Easy, reliable integration with vehicle's existing controller

- PK brakes can become CAN BUS ready with our embedded electronics

Compact size fits in limited vehicle space envelope

- Thin profile for easier axle integration

Eliminates water ingress and corrosion issues

- Up to IP67 protective grade
- NEW up to 500h of salt spray resistant coating

Increased stability elminates harsh or strong braking

- Multi-step option to release torque on demand in gradual steps

Reduced maintenance costs and downtime

NEW WES Contactless Monitoring System







TB Wood's and Stromag Couplings for Natural Gas Compressors

TB Wood's is a leader in couplings for gas compression applications, with multiple products to satisfy all customer power transmission needs.

FSH/HSH and GCF/GCH couplings can be modified for API671 compliance.

TB Wood's regularly works with Torsional Analysts to tune couplings for satisfactory system response, by adding inertia or altering stiffness.

- High Torque, Low Speed Applications
- Torque Capacity up to 1,600,000 in. lbs.
- Special designs are not a problem
- All couplings have labels with QR Codes for easy access to installation instructions.

For more information, download P-8886-C from www.AltraLiterature.com



Stromag GmbH couplings are designed for low to medium speed applications. These products support continuous loading, but are also engineered to handle alternating and vibratory loads that are common in natural gas compression applications.

GE Heavy-Duty, Multi-Segmented Couplings TRI-R UNIVERSAL Couplings Periflex®-VN "PVN" PLUG IN Disc Couplings

- Standardized products available with short delivery times
- Specialists in customized solutions adapted to the torsional dynamics of the application
- In house TVA engineers
- ATEX compliant couplings
- In-house rubber composition and production capability



TB Wood's Altra Industrial Motion



Boston Gear Micron® True Planetary Gearheads Quick Selection Guide

10 REASONS TO CHOOSE MICRON® GEARHEADS

RediMount[™] - Fast and Error Free Motor Mounting

Mounts any Micron gearhead to any motor in just three simple steps in less than five minutes!

Easy Sizing and Selection with Micron Motioneering

The most accurate and user friendly gearhead sizing and design tool on the market. Try it at www.micronmotioneering.com.

Superior Technology

All Micron gears are case hardened to HRC60 for longer life.

Fast Deliveries

1-2 week standard lead times on all standard catalog products. 24 hour "Gearhead Express" delivery service available for all models for just a 10 % premium!

Lubricated For Life

Micron gearheads require no maintenance and are grease filled.

Easy Customization

Modification requests welcome as well as "white paper" custom opportunities.

Unmatched Product Breadth

Largest selection of planetary gearheads in the world with over 3000 size and ratio combinations.

Unmatched Quality

All Micron gearheads are tested through our state of the art end of line tester, making our outgoing quality best in the market.

Commitment to New Product Development

Micron was first to launch an all stainless steel, IP69K gearhead for the food & beverage market. AquaTRUE is designed for the most harsh and corrosive environments.

Made in the USA

All Micron Gearheads are manufactured in the USA.



For more information, download P-8885-BG from www.AltraLiterature.com

Formsprag FSO Backstopping Clutches for Cog Railway Coaches

The famous Mount Washington Cog Railway in New Hampshire has been transporting visitors to the highest peak in the Northeastern US since 1869. At the summit, 6,288 ft. above sea level, the mountain experiences some of the most extreme weather conditions in the world with wind chill temperatures down to -102°F.

The railway fleet consists of a pair of steam locomotives, seven biodiesel locomotives and seven passenger coaches. A backstopping sprag clutch is installed on the down-mountain axle of each coach. The sprag clutch is engaged by the brakeman for the up-mountain portion of the trip, preventing any roll-back of the passenger coach. For the down-mountain leg of the trip, the sprag is disengaged to allow downward movement.

Formsprag Model FSO 800 backstopping clutches were selected and installed on every coach in the fleet due to their torque capacity and the general ruggedness of their construction. The compact FSO units were also able to fit within a small space and around existing hardware when retrofitted to older coaches.

- FSO 800 clutches feature a torque capacity of 13,000 lb.ft. (17,680 Nm)
- · Grease lubricated and equipped with steel labyrinth seals
- PCE sprags with Formchrome[®] and Formsprag "Free-action" retainers





Altra OnDemand Webinars





For more information, visit www.AltraWebinars.com

OnDemand Webinars:

- Formsprag Backstops for Shaft Mount
- Key Steps to Getting the Most from your Synchronous Belt Drive Installation
- Proper Torque Arm Use
- Two Ways to Reduce Backstop Maintenance Time and Expense
- Altra Wastewater Solutions
- Helping Us Help You: Product Identification

- High Capacity Gearboxes and Overrunning Clutches
- Precision Torque: Warner Electric Smooth Torque Capping Clutch Technology
- · Open Gearing Capabilities: Standard & Custom
- New TB Wood's Sure-Flex Plus® Savings
- Bauer Gear Motor Solutions in Metal Mill **Applications**

Fast Facts Webinars:

- Clutch/Brakes: Heavy Duty or Normal Duty Explains the differences in Normal Duty and Heavy Duty product configuration.
- Power Supplies: AC or DC Side Switching A review of why an application will most easily use either switching on the AC or the DC side of the power supply.
- Magnetic Particle Clutches and Brakes A review of magnetic particle design considerations and constraints.
- Electromagnetic Clutches/Brakes: Why DC? An explanation of why electro-magnetic friction clutches and brakes use DC power to operate.
- Warner Electric Clutches and Brakes: Why not below 100 RPM? This presentation explains why Warner Electric clutches and brakes operate best at speeds above 100 RPM.
- Burnishing Electromagnetic Clutches and Brakes An explanation of burnishing and why it is important to proper operation of clutches and brakes.

Altra Application Profile Videos on YouTube

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Twiflex Ice Tug Propulsion **Locking Devices**



Boston Gear SS700 Reducers for Lettuce Mixing System



Svendborg Braking System for Three Gorges Dam Shiplift

Ameridrives Bauer Gear Motor **Bibby** Turboflex **Boston** Gear Delevan

Delroyd Worm Gear Formsprag Clutch **Guardian** Couplings Jacobs Vehicle Systems Kilian Kollmorgen Lamiflex Couplings **Marland** Clutch Matrix

Nuttall Gear **Portescap** Stieber **Stromag** Svendborg Brakes TB Wood's **Thomson Twiflex** Warner Electric Wichita Clutch