

Power REVIEW

THE POWER BRANDS IN POWER TRANSMISSION

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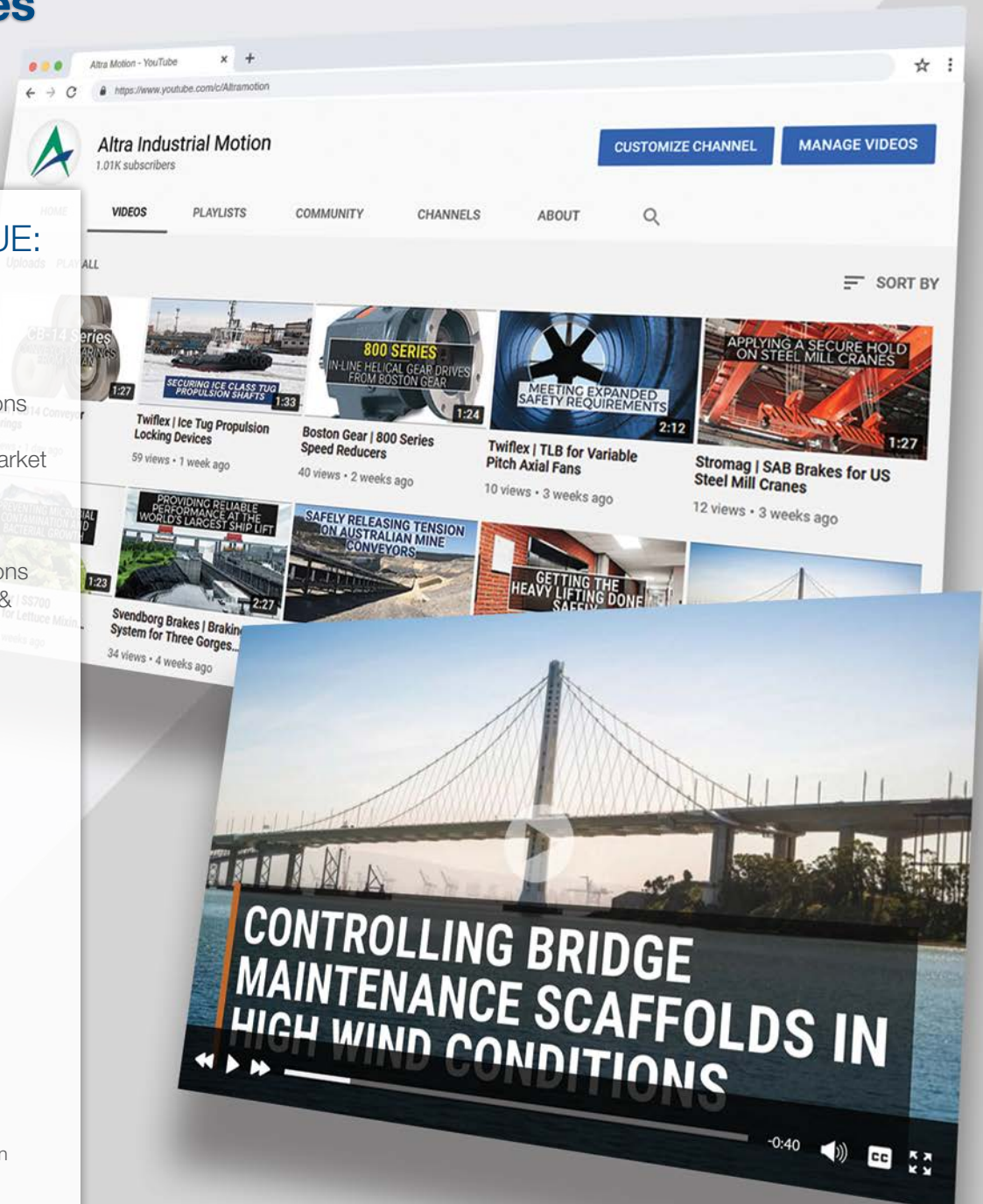
Formsprag Rebuild &
Overhaul Service



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



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Altra's Application Profile Videos on YouTube

Visit Altra Motion on YouTube to see over 50 Application Profile Videos featuring success stories from a variety of industrial applications. New videos are uploaded routinely, so check back often!

These micro videos comprise the Problem | Solution Playlist and are ideal for sharing with others. They are included in the Brand Playlists as well.

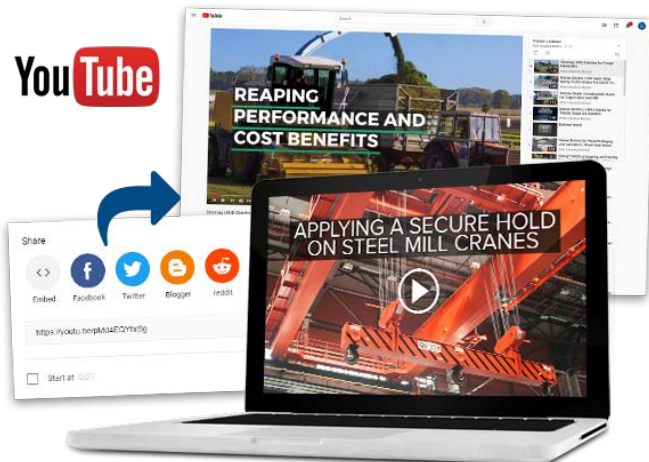
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the Problem
Solution Playlist
on YouTube



Power Transmission Solutions for the North American Overhead Crane & Hoist Market

Altra Motion provides extremely reliable components for challenging overhead crane and hoist applications. 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 provide application and technical support from concept to completion.

Many of the products in our comprehensive offering can be customized to meet the specific requirements for unique crane and hoist designs. Altra 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.

Individual components or packaged solutions for all types of crane applications:

- Service and Emergency Brakes
- Thruster Brakes
- Motor Brakes
- Rail & Wheel Brakes
- Cardan Shafts
- Hydraulic Buffers
- Disc/Drum Couplings
- Gear and Barrel Couplings
- Electric and Hydraulic Power Units
- Geared Motors
- Rotary Limit Switches
- IoT Monitoring Systems



For more information, download P-7275-C
from www.AltraLiterature.com

Huco Universal Joints

Huco universal joints feature a comprehensive range of sizes manufactured in good quality steels. Plain bearing and needle roller types are available and can either be supplied with square, hexagonal or keywayed bores to order. The joints are also manufactured with quick release collars and in telescopic form to order.

In selecting the best type of universal joint for a given application, the intended duty and life requirement are the determining factors. High speeds and/or operating angles are best handled by U/J's fitted with roller bearings. These are lubricated for life but it is nevertheless a good plan to protect the moving surfaces with a gaiter which prevents the ingress of dust, moisture and other foreign matter. Roller bearing joints are generally specified where sustained rotational speeds exceed 1200/1500 rpm.

The most commonly specified joints are those fitted with plain bearings. These are better at withstanding shock loads and are adequate for speeds up to 1200/1500 rpm. Journals and bearings are usually heat treated then ground and honed respectively. On larger U/J's, the bearing may be manufactured separately and pressed into the parent.

For more information, download P-8189-HD
from www.AltraLiterature.com



Power Transmission Solutions for North American Bridge & Dam Applications

Moveable structure engineers and OEMs worldwide have come to rely on the companies of Altra Motion for highly engineered, long-lasting power transmission solutions. Altra utilizes their exceptional engineering capability, extensive application expertise and advanced technologies to design and manufacture reliable products with the lowest cost of ownership.

Altra companies provide full drivetrain solutions for the heavy moveable structure industry with a comprehensive offering of custom-designed helical and worm gear speed reducers, couplings and braking systems to meet specific project requirements. Altra engineered power transmission products are installed on all types of bascule lift, vertical lift and swing bridges as well as dam and spillway flood gates around the world.

Altra brands that support the heavy moveable structures market include Nuttall Gear, Stromag and Ameridrives.

For more information, download P-8869-C
from www.AltraLiterature.com



Ameridrives®
Altra Industrial Motion

Nuttall Gear®
Altra Industrial Motion

Stromag®
Altra Industrial Motion

Warner Electric WR-Thin Spring Applied Electrically Released Brakes

Thickness Adaptive Design for Direct Integrated Holding/Parking Brake

The WR range is a pre-assembled on/off dry failsafe electromagnetic brake, highly reliable and compact for static engagement. Warner Electric recently extended the WR range with new sizes to be customized in terms of thickness vs static torque to fit applications where the brake is directly mounted inside a machine's frame and/or casting.

Features:

- 4 sizes with fixed diameter but different length/torque available
- Offers thin solutions down to 14mm
- 0.1 to 5.0Nm torque range
- Maximum inner diameter up to 35mm
- Various mounting options as magnet, flange or rear mount
- Direct encoder mount with special location diameter in option
- Noise reduction & energy saving in option
- High quality corrosion protection, RoHs, Reach, CE compliant

Typical Applications:

- Wheel Drive/Mobile Robot
- Cobot
- Scara Robot
- Patient Mobility Devices
- Integrated drive solution with frameless motor



Warner Electric®
Altra Industrial Motion

For more information, download P-8824-WE
from www.AltraLiterature.com

Formsprag Rebuild & Overhaul Service

All internal components – sprags, energized springs, retainer, bearings, seal and hardware are refurbished or replaced to new performance standards. The inner and outer races are ground to specifications noted below so that no wear patterns remain.

- Sprag Surface is hardened to 58-62 Rc
- Sprag Surface finish is 15-25 microinches
- Sprag Surface taper limit is 0.0002 inch per inch

Consider these advantages:

- **Price** – A guaranteed savings of 30% (compared to list price for a new unit)
- **Speed** – Clutches are received, inspected and rebuilt in the shortest possible time frame
- **Warranty** – The Model LLH has a 3 year warranty, all other models are 1 year on labor and materials, same as new clutches
- **Emergency Breakdown Program** – All products that are air freighted into the Warren plant are processed immediately and, in most cases, are able to be rebuilt within a 24-hour period.



Formsprag Clutch®
Altra Industrial Motion

For more information, download P-1465-FC, P-1060-FC or
visit the Rebuild and Overhaul page on www.Formsprag.com

Altra OnDemand Webinars



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WEBINAR SERIES



For more information, visit www.AltraWebinars.com

OnDemand Webinars:

- Formsprag Backstops for Shaft Mount Gearboxes
- 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 Calculator
- 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.

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New Micron AquaTRUE™ Corrosion Resistant Watertight Gearheads Catalog

Micron's AquaTRUE gearhead combines the high performance and torque capacity of Micron's TRUE Planetary gearheads with features specifically designed to meet the strict requirements of applications such as food and beverage handling, packaging and dispensing.



Huco Modified Flex M Couplings for Diamond Toolmaking Machines

A diamond toolmaking machine manufacturer in the UK needed a precision coupling solution for use on their line of new extreme material finishing machines. The OEM supplies the specialized, individually-built, high precision equipment to the polycrystalline diamond industry and single crystal diamond and gem stone industry.



Kilian Custom Bearing Assemblies for Commercial Dishwashers

A leading U.S. commercial dishwasher manufacturer needed a cam follower bearing solution for its conveyor-fed dishwashers. The bearings are installed on conveyor rollers that move racks of dishes, glassware and silverware through the machine.

Ameridrives
Bauer Gear Motor
Bibby Turboflex
Boston Gear
Delevan

Delroyd Worm Gear
Formsprag Clutch
Guardian Couplings
Huco
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