

December 2014

Power Review

The Power Brands in Power Transmission

Altra Industrial Motion

Vol. 3 | No. 4

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Gearing & Motor Solutions for the Food & Beverage Industry

Formsprag Rebuild and Overhaul Service



Find **Altra Industrial Motion** on:



For more information contact us at:
info@altramotion.com or
visit **www.altramotion.com**



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the interactive version of
the Power Review



Altra Releases NEW Market Portals

Go to AltraMotion.com

KEY MARKETS

Altra Industrial Motion *The Power Of Experience*

Ameridrives Couplings
Ameridrives Power Transmission
Bauer Gear Motor
Bibby Turboflex
Boston Gear

Delroyd Worm Gear
Formsprag Clutch
Guardian Couplings
Huco Dynatork
Industrial Clutch
Inertia Dynamics

Kilian Manufacturing
Lamiflex Couplings
Marland Clutch
Matrix International
Nuttall Gear
Stieber Clutch

Svendborg Brakes
TB Wood's
Twiflex Limited
Warner Electric
Warner Linear
Wichita Clutch

Altra Market Expertise

We maintain a balanced portfolio of world-class motion control products serving a diverse range of markets around the globe. The breadth of our product lines is as impressive as it is deep, giving many of our internationally recognized brands the ability to support and blanket a myriad of industries and help to dampen the cyclical impact of any one given industry.

Building upon our expertise in key growth industries, we have been able to further entrench ourselves in many promising segments such as energy, mining, material handling, food processing, metals, and turf and garden. We continue to evaluate emerging technologies and markets to broaden our diversity in an ever-changing world.

Altra products are sold in over 70 countries in a variety of major Industrial Markets.



Aerospace & Defense

- Rotary Wing Main Drives & Accessories
- Fixed Wing Aircraft Cargo Systems
- Land-Based Vehicles Driveline
- Fixed Wing Aircraft Accessory Drives



Crane & Hoist

- Overhead Traveling Bridge Cranes
- Gantry Cranes
- Monorail Lifting Systems
- Jib Cranes
- Top Slewing Cranes
- Chain and Wire Rope Hoists



Elevators

- Commercial Elevators
- Industrial Elevators
- Residential Elevators
- Stair Lifts



Farm & Ag

- Mowers
- Fan Drives
- Grain Handling & Drying Equipment
- Pumps
- Seeders & Sprayers
- Combines, Balers & Harvesters



Food & Beverage

- Conveyors
- Industrial Ovens
- Mixers
- Capping Equipment



Forklifts

- Electric Powered Lift Trucks
- Gas Powered Lift Trucks
- Aerial Lifts
- Automated Guided Vehicles



Material Handling

- Bulk Material Handling Conveyors
- Monorails
- Storage Retrieval Systems
- Unit Handling Conveyors



Medical & Mobility

- Powered Wheelchairs
- Scooters
- Treadmills
- X-Ray Tables



Metals Market

- Levelers
- Metal Fabrication
- Steel Slitters
- Steel Mill Roll Stands
- Cranes



Mining & Aggregate

- Ball Mills
- Cement Kilns
- Mine Hoists
- Drag Lines
- Mining Shovels
- Conveyors



Motion Control

- Servo Motor Brakes
- Pick and Place Equipment
- Plant Automation Machinery
- Robots
- Couplings



Oil & Gas

- Gas Compressor Pumps
- Oil and Gas Wells
- Off Shore Drilling Platforms



Packaging Machinery

- Cartoning & Case Packing Machinery
- Wrapping Machinery
- Filling and Capping Equipment
- Palletizing Machinery



Power Generation

- Natural Gas, Coal, Petroleum & Steam Turbines
- Turbine Drives
- Aeroderivative Turbines
- Renewable Energy Turbines



Renewable Energy

- Wind Turbines
- Tidal Turbines
- Solar Power
- Ethanol Production Equipment



Transportation

- Automotive Seat Bearings
- Commercial Marine Winches
- Off-road Vehicles
- Light Duty Rail Transmissions



Turf & Garden

- Commercial Lawn Mowers
- Residential Lawn Mowers
- Golf Course Maintenance Equipment
- Utility Vehicles



Water & Wastewater

- Cooling Towers
- Pumps
- Water Filtration
- Wastewater Treatment Facilities

For more information about Altra's Key Markets, visit WWW.ALTRAMOTION.COM



Warner Electric Heavy Duty Gen2 Module

Packaged Clutch Brake for 143/145TC NEMA Frame, up to 2 hp.

Heavy Duty Features:

- Modified Armature and Splined Hub – increased engagement length resulting in 44% decrease in spline compressive stresses
- Higher load capacity bearing – increased dynamic load capability by 47%

Includes standard Gen2 Module features:

- Ease of installation – bolt it down, wire it up
- NEMA C-Face compatible mounting & completely sealed coils
- No adjustment required – patented Autogaps™ automatically adjust for wear
- Electric Motor grade bearings maintain tight concentricity and running efficiency
- High torque, long life, lead-free friction material
- Finned housing for maximum heat dissipation

For more information download
P-7207-WE & P-1899-WE
from www.AltraLiterature.com



Custom Sheave and Shaft Assemblies

The world's leading elevator OEM ordered sheave/shaft assemblies from TB Wood's for use on a large quantity of express and service elevators at the new One World Trade Center (1 WTC) building in New York City.



The TB Wood's counterbalance cable flywheel sheave assemblies were installed 50 ft. below the elevator shafts. A large number of custom sheaves were supplied in six sizes. Sheaves feature up to 16 grooves sized to accommodate 1" cables. The heaviest fully-machined sheave castings (with center shaft bores) weighed approximately 7,000 lbs. The TB Wood's sheaves are designed to enable the 40 year, maintenance-free OEM performance requirement.

For more information download P-7241-C
from www.AltraLiterature.com



Torsiflex-i Flexible Disc Coupling for API 610

Torsiflex-i Advantages:

- Standard coupling is fully compliant with the requirements of API 610 / ISO 14691
- Plug-in spacer design allows installation and removal without disturbing the hubs
- Inch series hub attachment screws (metric available upon request)
- Robust disc pack design allows for greater torque load in a smaller coupling, resulting in lower weight
- Smaller diameter and lower weight per HP provide better inherent balance
- ATEX compliance is standard — ExII 2GDc135degC(T4)
- Built-in Anti-Flail Feature
- Zinc Phosphate coating standard

Also available with Torsi-Lock® Hubs

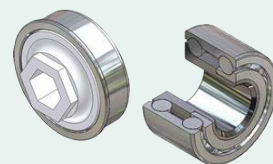
For more information download
P-7058-CG from www.AltraLiterature.com



Kilian Bearings for Immediate Shipment

Kilian provides several types of bearings that are in stock for immediate shipment:

- Single row ball bearings
- Double row ball bearings
- Flange type ball bearings
- Conveyor ball bearings



When placing your order for any of our catalog bearings, call or email the Kilian Sales Department or one of our many distributors to ensure the bearing assembly meets your load, speed and other application requirements.

For more information visit
www.KilianBearings.com



Gearing & Motor Solutions for the Food Industry

Boston Gear and Bauer Gear Motor provide a full complement of worm and helical gear drives with varying degrees of sanitary protection to meet the needs of the diverse requirements within a production facility. From standard cast iron and aluminum housings and white or stainless epoxy paint to fully aseptic or complete stainless steel units, Boston Gear and Bauer Gear Motor can provide a drive solution to meet the application requirements.

For more information
download P-7665-BBG from
www.AltraLiterature.com or visit
www.AltraFoodandBeverage.com



Formsprag Rebuild and Overhaul Service

Send Formsprag your old clutches to make them like new again. The difference is not just cosmetic. All internal components – sprags, energized springs, retainer, bearings, seal and hardware are refurbished or replaced to new performance standards.

Consider these advantages:

- **Price** – A guaranteed savings of at least 30% or more versus new product
- **Speed** – Clutches are received, inspected and rebuilt in the shortest possible time frame
- **Warranty** – 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.

For more information
download Application Guide P-1465-FC
from www.AltraLiterature.com



Upcoming Shows

2014 Shows

International CEMENT Forum	Moscow, Russia	December 2-4
Work Boat Show	New Orleans, LA	December 3-5
Power Gen 2014	Orlando, FL	December 9-11

2015 Shows

SME 2015	Englewood, CO	February 15-18
Middle East Turbomachinery Symposium	Doha, Qatar	February 15-18
Grainger 2015	Orlando, FL	February 15-20
Energy Construction Forum	Galveston, TX	March 3-4
Coal Prep 2015	Lexington, KY	April 27-30
OTC 2015	Houston, TX	May 4-7
AISTech 2015	Cleveland, OH	May 4-7
CIM 2015	Montreal, Canada	May 10-12
GPS 2015	Calgary, AB, Canada	June 9-11
AIMEX Expo 2015	Sydney, Australia	September 1-4
Process Expo 2015	Chicago, IL	September 15-18
Expomin Mexico 2015	Acapulco, Mexico	October 7-10

2016 Shows

MINExpo International 2016	Las Vegas, NV	September 26-28
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Turbomachinery 2014

Sept. 22-25 | Houston, TX

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Featured News Stories



Warner Electric – MB Series Permanent Magnet Brake for Plastic Bag Closure Extruder

The challenge of a Carolina manufacturer of plastic bag closures was to rewind the web of material consistently so that the closures could be used in packaging systems by their customers. For the product to work well in the end use packaging systems the roll of closures needed to be of a consistent wrap tightness and alignment.



Formsprag Clutch – Model FSO Overrunning Clutches for Multi-Speed Warehouse Conveyor System

A large packaging operation was experiencing damage to the bottom of cartons on their case packing lines. The damage occurred as the cartons transferred from one conveyor to another conveyor which was moving at a 10 percent slower speed. Productivity was also impacted since the first two rollers of the slower conveyors needed to be replaced every year due to excessive wear.



Nuttall Gear – Custom Pinion Stand Drive for Steel Tube Forming Mill

A major steel mill OEM required a custom gear drive for use on the pinion stand that pulls steel coil through a tube mill which forms the steel prior to seam welding.