

December 2012

# Power Review

*The Power Brands in Power Transmission*

**Altra Industrial Motion**

Vol. 1 | No. 4



## Couplings

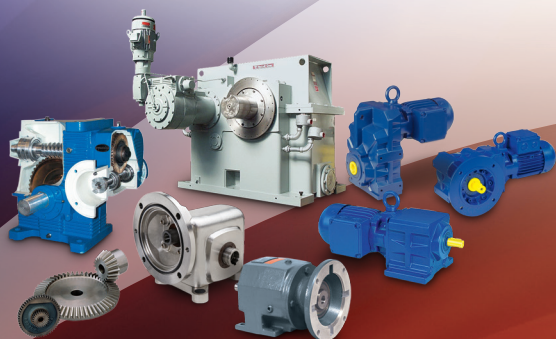
*TB Wood's  
Ameridrives Couplings  
Bibby Turboflex  
Huco Dynatork  
Ameridrives Power Transmission  
Lamiflex Couplings*



## Clutches and Brakes

*Warner Electric  
Inertia Dynamics  
Matrix International  
Wichita Clutch  
Twiflex Limited*

*Industrial Clutch  
Formsprag Clutch  
Marland Clutch  
Stieber Clutch*



## Gearing

*Boston Gear  
Bauer Gear Motor  
Nuttall Gear  
Delroyd Worm Gear*



## Power Transmission Components

*TB Wood's Belted Drives  
Kilian Manufacturing  
Warner Linear*

## Featured in this Edition...

ISO 9001:2008 Certification

Altra Business Systems

Boston Gear  
Reducer Express

Farm & Agriculture  
Solutions

Getting Connected using  
Social Media

Best Practices - New Series

Altra Literature Portal

Altra Newsroom

Featured Application Profiles:

Bauer Gear Motor  
"The World's Longest  
Cable-stayed Bridge"

Warner Electric  
"Helping a Recently  
Disabled Surgeon get  
Back to Work"



Find **Altra Industrial Motion** on:



For more information contact us at:  
[info@altramotion.com](mailto:info@altramotion.com) or  
visit [www.altramotion.com](http://www.altramotion.com)

## Altra Industrial Motion

Altra Industrial Motion is dedicated to producing world-class, quality power transmission components at competitive prices.

The following brands recently received new ISO 9001:2008 certification which validates their continued commitment to quality and conformance of requirements:

Ameridrives International  
Coupling Products



**Ameridrives Couplings  
and TB Wood's**



**Warner Electric**



**Wichita Clutch**



**Intertek**  
**Delroyd Worm Gear &  
Nuttall Gear**

## Altra Business System

At the core of our success is the powerful management process we call the Altra Business System (ABS), a comprehensive business management system designed to achieve world-class excellence. The Altra Business System begins with two key ingredients:

### The voice of the customer and total associate involvement.

The Altra Business System focuses on improvements in quality, delivery, and cost to drive customer satisfaction. It also provides the tools to achieve specific business objectives with the involvement of all associates. In order to produce world-class, quality power transmission components at competitive prices, Altra uses an integrated approach to manufacturing which manages equipment, materials, and people in the most efficient manner while ensuring a safe and blameless work environment.

Some of the key principles followed include: Kanban, JIT, Jidoka, Kaizen and standardized work. Kaizen or continuous improvement, is one of the main drivers of the Altra Business System. Its primary objectives are to identify and eliminate waste in all areas of the facility, including the manufacturing, purchasing, and administrative processes.

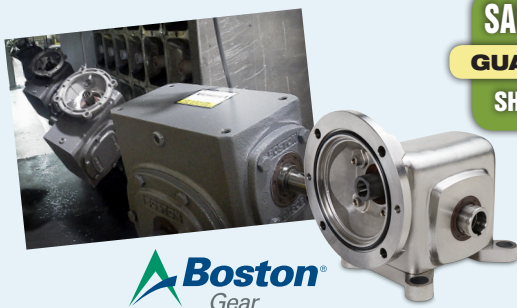
For more information, visit [www.AltraMotion.com/ABS\\_Overview.asp](http://www.AltraMotion.com/ABS_Overview.asp)



## Boston Gear

Order your 700 Series worm gear, 800 Series Helical (in-line or right angle) or 200 Series Optimount™ helical gear drives using Reducer Express™, and we guarantee same day shipment by air if the order is received by 12 pm Eastern - or next business day shipment by air if the order is received after 12 pm. If we miss, the air freight is free!

For more information about this innovative program, please contact our Customer Service Department at [Customerservice@bostongear.com](mailto:Customerservice@bostongear.com), or your local distributor.



**REDUCER  
EXPRESS**

**SAME DAY  
GUARANTEE  
SHIPMENT**

**Boston**  
Gear

## Farm and Agriculture Solutions

As the costs for crops continue to rise, the equipment necessary to harvest and cultivate them will come under increasing pressure to perform. The companies of Altra Industrial Motion are uniquely positioned to leverage their products' reputations, reliability and technologies to help farm equipment manufacturers achieve the necessary productivity and efficiency that farmers require.

Altra brands Warner Electric, Warner Linear, Boston Gear, TB Wood's and Matrix International offer many critical products utilized in farming applications where reliability and accuracy are necessary to avoid costly downtime and enhance operations and efficiency.



The new Farm & Agriculture brochure (P-7362-C) is available at [www.altraliterature.com](http://www.altraliterature.com), or visit [www.AltraFarmandAg.com](http://www.AltraFarmandAg.com) for more information.



## Get Connected with Altra Social Media

**New Social Media Features:** Interesting applications are downloadable and viewable from the Altra Newsroom and Literature Portal. Like us on Facebook, follow us on Twitter and link with us on LinkedIn for up to the minute news you can use.



## Featured Application Profiles

### Bauer Gear Motor

The world's longest cable-stayed bridge, located near Vladivostok, Russia, breaks numerous world records, rising more than 70m above the high water level with a central span 1104m long.

One of the most demanding phases of the bridge construction was the assembly of the central span which is made up of 103 panels, each 12m long, 26m wide, and weighing a total of 23,000 tons. A special crane was needed to lift the enormous panels from barges to the 70m elevation and into position.

Mostovik Crane Factory turned to Bauer Gear Motor to provide gear motors for a custom-designed derrick crane which was installed on the bridge center span deck, cantilevered over the nose and facing toward the strait.

To meet the application requirements, Bauer supplied BF Series geared motors, with torques from 10100-13400Nm.



Download the full story (P-7273-BGM) at [www.AltraLiterature.com](http://www.AltraLiterature.com).



### Warner Electric

A team of UW-Madison engineering students were working on a design project to help a recently disabled orthopedic surgeon overcome his disabilities so that he could work again.

The students contacted Warner Electric to request four ERS-42 spring-set, electrically released brakes which they needed to build a sophisticated, one-of-a-kind device that would enable the gifted physician to reclaim his career, and with it, his quality of life.

Warner's ERS-42 brakes are electrically-released, spring-set brakes widely used in personal mobility devices, and the brakes provide both holding stability and emergency stopping capability. The compact, low profile design of the brakes help to minimize design footprints, as was critical with this device. The spline drive design of the brakes and their corrosion-resistant construction contribute to the reliability and durability of the brakes.



Download the full story (P-7265-WE) at [www.AltraLiterature.com](http://www.AltraLiterature.com).



## New Series - Best Practices

In 2012, Altra began publishing the "Best Practices Series" of magazine articles to provide users and design engineers with important information and tips regarding the proper installation, use and maintenance of power transmission components. Articles have appeared in publications including Plant Services, Machine Design and IMPO (Industrial Maintenance & Plant Operation).

As recognized global leaders in designing and manufacturing state-of-the-art power transmission components, the brands of Altra Industrial Motion are committed to helping users and designers achieve the highest level of productivity and efficiency in their operations.



**Large Gearbox Maintenance and Lubrication** - Demonstrates the importance of lubrication and seal maintenance of gearboxes [P-7339-NG](#)

**Torque Wrench Usage** - Explains the benefits of the use of a torque wrench during coupling installation [P-7286-TBW](#)

**Suppression Circuit Design for Electric Clutches and Brakes** - Shows the value of suppression circuit designs [P-7285-WE](#)

**Getting the Most Out of your Gearboxes** - Illustrates proper worm gear care [P-7271-BG](#)

Go to our [Altra literature site](http://www.AltraLiterature.com) to download these best practice articles.

## Literature Portal

The brands of Altra Industrial Motion produced and support a Literature Portal, [www.AltraLiterature.com](http://www.AltraLiterature.com), for you to find all the most up to date marketing materials. Conveniently download and request Altra's latest catalogs, brochures, service manuals and more.

You can also find the most recent product information to meet your power transmission requirements by going to any brand website and clicking on the Literature tab.

[www.AltraLiterature.com](http://www.AltraLiterature.com)



## Altra Newsroom

### Get Connected Altra News

Altra makes it quick and easy for you to get the news you need. From new literature releases to trade show schedules, the news is at your fingertips 24 hours a day.

[News.Altramotion.com](http://News.Altramotion.com)



## New Literature

### Now Available for Download or Request..

#### New/Updated Catalogs, Brochures, Flyers and More!

P-1469-MC	Marland Backstops Catalog
P-1686-TBW	Mechanical Products Catalog
P-1690-TBW	Flexible Couplings Catalog
P-1773-WL & A4	Warner Linear B-Track Rugged Duty Actuators Flyer
P-7272-TF & A4	VBS Disc Brake Caliper for Mining & Conveyor Applications Brochure
P-7123-BGM	Bauer TCO – Total Cost of Ownership Brochure
P-7298-MC	Marland HBG Clutches flyer
P-7300-WL	K2x Linear Actuators for Fire Engine Ladder Access Systems
P-7311-BB & A4	Bibby Turboflex South Africa Overview Brochure
P-7342-WE & A4	X2DRV: A New Tension Control System Flyer
P-7346-BG	New Ratios 80:1 and 100:1 Flyer
P-7349-BG	700 Series Worm Gear Speed Reducers Brochure
P-7359-TF & A4	VCSD Disc Brake Caliper for Industrial & Mining Brochure
P-7360-TF & A4	VKSD Disc Brake Caliper for Industrial & Mining Brochure
P-7361-TF & A4	VMS3PS Disc Brake Caliper for Industrial & Mining Brochure
P-7392-HD & A4	Multi-Beam Stainless Steel Multi-Helix Flexible 3 Beam Couplings Data Sheet
P-7393-HD & A4	Multi-Beam Aluminum Multi-Helix Flexible 3 Beam Couplings Data Sheet
P-7394-HD & A4	Multi-Beam Acetal Multi-Helix Flexible 3 Beam Couplings Data Sheet

To download or request literature visit [www.AltraLiterature.com](http://www.AltraLiterature.com).



## Articles & Application Profiles

### Articles

#### for all Altra Brands

P-7305-TF	Twiflex Brakes Specified for Canadian Gold Mine Hoist
P-7337-WE	Engineering Students Work to Rescue a Surgeon's Career
P-7340-NG	Enclosed Drives for Moveable Bridges Specification Consistency
P-7370-BG	Avoiding Common Gearbox Lubrication Problems



### Application Profiles

#### for all Altra Brands

P-7302-WL	M-Track Linear Actuator for Agricultural Aircraft Landing Light
P-7265-WE	ERS-42 Brakes for Standing Paraplegic Omni-direction Transport
P-7290-WL	K2x Linear Actuators for Emergency Vehicle Oxygen Tank Lift
P-7307-WL	K2x Linear Actuators for Fire Tanker Dump Valve & Portable Tank Lifts
P-7333-WL	K2M Linear Actuators for Marine Hatches
P-7363-WE	Custom Compressor Clutches for Coach/Transit Bus HVAC Systems
P-7364-WE	Custom Fan Drive Clutches for School Bus Engine Cooling Fans



To download Articles or Application Profiles visit [www.AltraLiterature.com](http://www.AltraLiterature.com)

## Tradeshows

### Upcoming Shows

#### 2013 Shows

SME	Denver, CO	February 24-27
METS II	Doha, Qatar	March 18-20
Hannover Messe	Hannover, Germany	April 8-12
Coal Prep	Lexington, KY	April 30-May 2
OTC	Houston, TX	May 6-9
Mining World	Moscow, Russia	May 14-16
Rio Offshore	Brazil	June
Coal Gen	Charlotte, NC	August 14-16
Sugar & Ethanol	Brazil	August
AIMEX	Sydney, Australia	September 20-23
Pack Expo	Las Vegas, NV	September 23-25
Turbomachinery	Houston, TX	October 1-3
Maintenance Congress	Brazil	October
Pulp & Paper	Brazil	October



Mine Expo 2012 - Las Vegas, NV

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