

# Power Review

The Power Brands in Power Transmission

Altra Industrial Motion

Vol. 7 | No. 1 | 2018

## Featured in this Edition...

Power Transmission  
Solutions for the Oil  
& Gas Market

Power Transmission  
Solutions for Vertical  
Lift Systems

## NEW Market Brochures!

Power  
Transmission  
Solutions  
for  
Vertical Lift  
Systems

Power  
Transmission  
Solutions  
for the  
Oil & Gas  
Market

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the interactive version of  
the Power Review

Altra Industrial Motion *The Power Of Experience*

Ameridrives

Bauer Gear Motor

Bibby Turboflex

Boston Gear

Delroyd Worm Gear

Formsprag Clutch

Guardian Couplings

Huco

Industrial Clutch

Inertia Dynamics

Kilian

Lamiflex Couplings

Marland Clutch

Matrix

Nuttall Gear

Stieber

Stromag

Svendborg Brakes

TB Wood's

Twiflex

Warner Electric

Warner Linear

Wichita Clutch

# Altra Provides Advanced Power Transmission Solutions for the Oil and Gas Industry

A new literature piece, P-8453-C, is now available that highlights advanced power transmission solutions for the Oil & Gas market. Oil and gas market OEMs and end users will find this brochure helpful as Altra provides premier power transmission products that feature extraordinary performance and reliability for long life and outstanding value.

Aligned with various applications, this brochure provides specifics on the applications where the products are used as well as the benefits that they will bring. Areas that are highlighted in this brochure are: Offshore E&P, Onshore E&P, Vessels, Vehicles, Compressors and Refineries.

Altra provides product solutions that will fit the needs of many applications. Specific products that are used within these types of environments include:

## Vessels

- Winches
- OSV, PSV & AHTS Vessels
- Propulsion Shafts
- FPSO & FLNG Ships
- Knuckle Boom Cranes
- Diving Support Vessels
- Escalators

## Onshore E&P

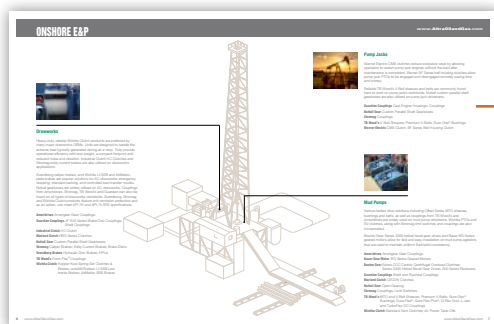
- Drawworks
- Pump Jacks
- Mud Pumps

## Offshore E&P

- Cranes
- Drawworks
- Top Drives
- Winches

Other Oil & Gas applications where Altra products are used include: Truck-Mounted Hydraulic Fracturing Pumps, Logging/Wireline Trucks, Refineries and Gas Compressors.

For more information about power transmission solutions for oil and gas applications from Altra Industrial Motion including case studies, literature, and service manuals, visit [www.AltraOilandGas.com](http://www.AltraOilandGas.com).



## Drawworks

Heavy-duty, reliable Wichita Clutch products are preferred by many major drawworks OEMs. Units are designed to handle the extreme heat typically generated during an e-stop. They provide operational efficiency with less weight, a compact footprint and reduced noise and vibration. Industrial Clutch HC Clutches and Stromag eddy current brakes are also utilized on drawworks applications.

Svendborg caliper brakes, and Wichita LI-SSB and AirMaks plate brakes are popular solutions for AC-drawworks emergency stopping, standard parking, and controlled load transfer modes. Nuttall gearboxes are widely utilized on AC drawworks. Couplings from Ameridrives, Stromag, TB Wood's and Guardian can also be found on all types of drawworks worldwide. Svendborg, Stromag and Wichita Clutch products feature anti-corrosion protection and as an option, can meet API-7K and API-7K SR2 specifications.

**Ameridrives** Amerigear Gear Couplings

**Guardian Couplings** JF K45 Series Brake Disc Couplings; Shaft Couplings

**Industrial Clutch** HC Clutch

**Marland Clutch** HBG Series Clutches

**Nuttall Gear** Custom Parallel Shaft Gearboxes

**Stromag** Caliper Brakes; Eddy Current Brakes; Brake Discs

**Svendborg Brakes** Hydraulic Disc Brakes; HPUS

**TB Wood's** Form-Flex® Couplings

**Wichita Clutch** Kopper Kool Spring Set Clutches & Brakes; wcbAM Brakes; LI-SSB Low Inertia Brakes; AirMaks SSB Brakes



## Pump Jacks

Warner Electric CMS clutches reduce excessive wear by allowing operators to restart pump jack engines without the load after maintenance is completed. Warner SF Series bell housing clutches allow pump jack PTOs to be engaged and disengaged remotely saving time and money.

Reliable TB Wood's V-Belt sheaves and belts are commonly found hard at work on pump jacks worldwide. Nuttall custom parallel shaft gearboxes are also utilized on pump jack drivetrains.

**Guardian Couplings** Cast Engine Housings; Couplings

**Nuttall Gear** Custom Parallel Shaft Gearboxes

**Stromag** Couplings

**TB Wood's** V-Belt Sheaves; Premium V-Belts; Sure-Grip® Bushings

**Warner Electric** CMS Clutch; SF Series Bell Housing Clutch



## Mud Pumps

Various belted drive solutions including Offset Series MTO sheaves, bushings and belts, as well as couplings from TB Wood's and Ameridrives are widely used on mud pump drivetrains. Wichita PTOs and SV clutches, along with Stromag limit switches and couplings are also incorporated.

Boston Gear Series 2000 helical bevel gear drives and Bauer BG Series geared motors allow for fast and easy installation on mud pump agitators that are used to maintain uniform fluid/solid consistency.

**Ameridrives** Amerigear Gear Couplings

**Bauer Gear Motor** BG Series Geared Motors

**Boston Gear** Series CCC Centric Centrifugal Overload Clutches; Series 2000 Helical Bevel Gear Drives; 800 Series Reducers;

**Guardian Couplings** Shaft and Flywheel Couplings

**Marland Clutch** CECON Clutches

**Nuttall Gear** Open Gearing

**Stromag** Couplings; Limit Switches

**TB Wood's** MTO and V-Belt Sheaves; Premium V-Belts; Sure-Grip® Bushings; Dura-Flex®, Sure-Flex Plus®, G-Flex Grid, L-Jaw, and TurboFlex GC Couplings

**Wichita Clutch** Standard Vent Clutches; Air Power Take-Offs

**Line drawings of oil and gas applications indicate where each product is used. Products used in each application are listed next to their respective brand names.**





# Altra Provides Advanced Power Transmission Solutions for Vertical Lift Applications

Throughout the industry, it is known that Altra provides superior power transmission solutions for vertical lift applications. A new brochure, P-8378-C, is now available that highlights products used for various applications within that market.

Altra products are designed and engineered for superior quality. Those used as power transmission solutions for vertical lift systems include: Clutches, Brakes and Actuators (Warner Electric, Twiflex, Stromag, Svendborg Brakes, Warner Linear, Stieber), Couplings (Ameridrives, Bibby Turboflex, Guardian Couplings, Stromag, TB Wood's), Controls and Sensors (Stromag), Geared Motors and Enclosed Gearing (Boston Gear, Bauer Gear Motor, Nuttall Gear, Delroyd Worm Gear) and Sheaves and Castings (TB Wood's).

Altra provides product solutions that will fit the needs of many applications. Specific products that are used within these types of environments include:

## Cranes & Hoists

- Traveling Overhead Bridge and Monorail Cranes
- Jib/Workshop Cranes
- Chain and Wire Rope Hoists & Winches
- Nuclear Cranes
- Gantry/Port Cranes
- Flat Top/Luffing Tower Cranes
- Truck-Mounted & Crawler Cranes

## Theaters and Stage

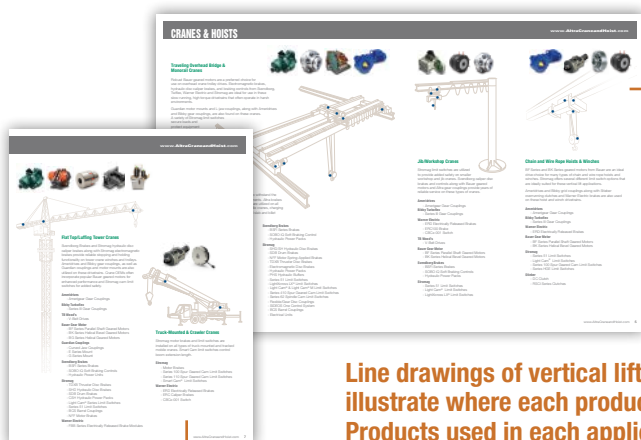
- Podium Scissors Lifts, Winch-Driven Lifts and Ball Screw Lifts
- Automated Seating Systems
- Rigid Stacking Chain Platform Lifts
- Point Hoists
- Silent Chain Hoists
- Mobile Points Hoists

## Elevators & Escalators

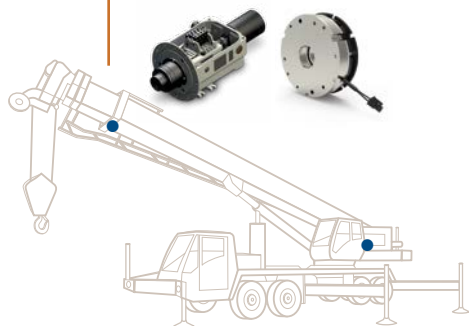
- Gearless Motor Elevators
- Geared Motor Elevators
- Escalators

Other Vertical Lift applications where Altra products are used include: Shop Lifts, Moveable Bridges and Dam Spillway Gates, Ski Lifts, Amusement Rides and Overhead Doors.

For more information about power transmission solutions for vertical lift applications from Altra Industrial Motion including case studies, literature, and service manuals, visit [www.AltraVerticalLiftSystems.com](http://www.AltraVerticalLiftSystems.com).



Line drawings of vertical lift applications illustrate where each product is used. Products used in each application are listed below their respective brand names.



## Truck-Mounted & Crawler Cranes

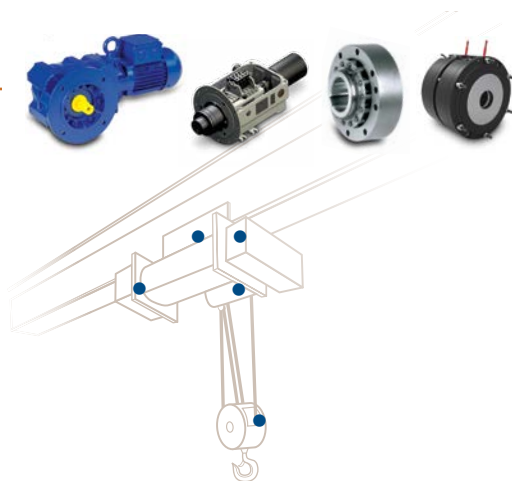
Stromag motor brakes and limit switches are installed on all types of truck-mounted and tracked mobile cranes. Smart Cam limit switches control boom extension length.

### Stromag

- Motor Brakes
- Series 100 Spur Geared Cam Limit Switches
- Series 110 Spur Geared Cam Limit Switches
- Smart Cam® Limit Switches

### Warner Electric

- ERD Electrically Released Brakes
- ERC Caliper Brakes
- CBCx-001 Switch



## Chain and Wire Rope Hoists & Winches

BF Series and BK Series geared motors from Bauer are an ideal drive choice for many types of chain and wire rope hoists and winches. Stromag offers several different limit switch options that are ideally suited for these vertical lift applications.

Ameridrives and Bibby grid couplings along with Stieber overrunning clutches and Warner Electric brakes are also used on these hoist and winch drivetrains.

### Ameridrives

- Amerigear Gear Couplings

### Bibby Turboflex

- Series III Gear Couplings

### Warner Electric

- ERD Electrically Released Brakes

### Bauer Gear Motor

- BF Series Parallel Shaft Geared Motors
- BK Series Helical Bevel Geared Motors

### Stromag

- Series 51 Limit Switches
- Light Cam® Limit Switches
- Series 100 Spur Geared Cam Limit Switches
- Series HGE Limit Switches

### Stieber

- DC Clutch
- RSCI Series Clutches



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### Warner Linear Actuators for Challenging Industrial, Agricultural & Mobile Applications

The engineering team at Warner Linear has developed a new electric actuator with self-contained hydraulic actuation to meet the growing demand for power dense actuators used in a variety of industrial applications including ag sprayer booms, snow plow blades, mower deck lifts, and ATV dump boxes.



### Boston Gear Series 2000 Inline Drives for Mine Belt Filter Press

A mine facility needed a reliable gearbox to replace a competitor model that failed on its belt filter press. While mud/slurry sewage from the mine is pumped into the press, the liquid is filtered out under pressure through fabric membranes. The remaining caked solid material is dumped as it exits the machine. A synchronous belt drive is used to power the continually-rotating filter membrane belts. The gearbox is positioned between the 1 HP electric drive motor and the belted drive sprocket shaft.



### Guardian FBA Series Flywheel Coupling Kits for Road Construction Brooms

A leading manufacturer of industrial sweepers and brooms required an economical coupling solution for a line of road construction sweepers. Dual hydraulic pumps, horizontally mounted to each other off the rear of the machine's 74 HP Tier 4 engine, drive the propulsion of the machine and control the operation and speed of the broom and various other components.

## Altra OnDemand Webinars



### OnDemand Webinars:

- Altra Refinery Applications
- Factors To Consider When Selecting A V-Belt Drive
- Factors To Consider In Coupling Selection
- Load Holding Brake Solutions: High Capacity Systems
- Open Gearing Capabilities: Standard & Custom
- Helping Us Help You: Product Identification
- IP Ratings: Where It Matters & How We Address It
- Warner Linear Product Launch – Introduction To H-Track
- Factors to Consider in Linear Actuator Selection
- New TB Wood's Sure-Flex Plus® Savings Calculator
- Centrifugal Clutches: Applications and Selection

For more information, visit [www.AltraWebinars.com](http://www.AltraWebinars.com)

## Upcoming North American Tradeshows

### 2018 Shows

SME	Denver, CO	Feb 25-28
AWEA Wind Project O&M & Safety	San Diego, CA	Feb 27-28
Heli-Expo	Las Vegas, NV	Feb 26 - Mar 01
GCA	Galveston, TX	Mar 20-22
AFS Cast Expo	Ft. Worth, TX	Apr 3-5
AWEA OEM & Safety	Dallas, TX	Apr 16-18
ISRI	Las Vegas, NV	Apr 14-19
OTC	Houston, TX	Apr 30 - May 03
CIM	Montreal, Canada	May 6-8
AWEA Wind Power	Chicago, IL	May 7-10

For more information about upcoming tradeshows, visit: [www.Altramotion.com/Tradeshow](http://www.Altramotion.com/Tradeshow)



**IPPE 2018**

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