

Power REVIEW

THE POWER BRANDS IN POWER TRANSMISSION

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All CECON+ units support the on-board
Smart Marland Monitoring System

The Marland CECON®+ Clutch

The family of Marland CECON (Completely Enclosed for CONTinuous operation) foot mount clutches has evolved into new CECON®+ models including:

- Popular CEUS (Standard configuration)
- Recently developed CEUF (Standard Force Lube)
- More versatile CEUSD (Standard Disconnect)
- New CEUFD (Force Lube Disconnect)

All CECON+ units support the on-board Smart Marland Monitoring System. Ports for temperature, vibration, and oil level sensors are designed into individual components to allow remote monitoring of the clutches from anywhere*.

The CECON+ design is a drop-in upgrade for existing CEUS and CEUSD CECON clutches. Unit dimensions are identical to current models. The new design incorporates double keyways on the input and output shafts for greater torque capacity and higher operating speeds**.

*Optional add-on equipment, refer to P-8666-MC for information on the Smart Marland Monitoring System.

**Does not apply to high-speed CECONs.

For more information, download P-8833-MC
from www.AltraLiterature.com



Scan the QR code to download
the CECON Clutches catalog.
See pages 11-12 for additional
product dimensions.



Twiflex Multi-Point Resilient Couplings

Twiflex has developed a range of high-speed couplings, based on proven resilient coupling design principles, to meet the demands of industry around the world. The capabilities of the Multi-Point series may be extended through custom configurations manufactured to suit customers' specific requirements. Multi-Point shaft assemblies, including the fixed length configuration, can accommodate axial movement as well as radial and angular misalignments. There are no wearing parts and no bearings as the shafts are self-supported. In their shortest form they become a 'close-coupled' assembly. The couplings may be supplied with UJ or CV type joints to provide more torsional flexibility than a traditional shaft assembly, or where it is necessary to reduce transmitted noise or provide damping.

Features:

- Multiple block sizes to tailor the design
- Standard torque capacity up to 64 kNm
- Parallel block arrangement for high-speed operation
- Standard and bespoke Multi-Point housing configurations
- Large rubber volume provides low torsional stiffness
- Good damping characteristics aid control of torsional vibration



For more information, download P-8832-TF
from www.AltraLiterature.com

Sure-Flex Plus® Couplings for Industrial Mixers

Chemineer, recognized for producing reliable, heavy-duty mixing equipment, is continually striving to improve reliability and performance which is why it has chosen to specify Sure-Flex Plus® couplings from TB Wood's for its newest line of mixers. Mounted between the motor and gearbox, the couplings transmit power efficiently in this variable speed and variable torque application.

In many cases, it may be necessary to clean or repair an impeller or to carry out maintenance on the associated gearbox which requires the motor or impeller to be disconnected. This could be a very protracted affair but, with the benefit of a split design, the Sure-Flex Plus coupling can be removed quickly and easily, allowing the required maintenance to be performed with less down-time.

Features:

- 8.2 kNm max. torque
- Flexible sleeves available in EPDM, Neoprene or Hytrel
- Four-way flexing action absorbs extreme torsional shock and vibration
- Wide range of standard sizes available



For more information, download P-7572-TBW
from www.AltraLiterature.com

Onsite Seal & Lubrication Overhaul for Trunnion Bascule Bridge Drives

The historic Third Street bridge, located next to Giants baseball stadium in San Francisco, recently underwent a major \$25M rehabilitation. The famous bridge required repairs and/or replacement of damaged steel members, welds, concrete counterweights, support piles, and bridge fenders.

The single-leaf bascule bridge utilizes three Nuttall Gear drives that needed to have their oil lubrication flushed and replacement seals installed to provide decades of additional service. New breathers and inspection cover gaskets were also installed.

Nuttall's Drive Reliability Team of four experienced technicians was dispatched to the bridge site to ensure that the work would get completed within the scheduled downtime window. The original 86-year old oil seals were cut off and new custom-designed seals were installed. The new split labyrinth seals replaced the original single-piece seals that were difficult to remove without fully disassembling the bridge's operating machinery.

Nuttall designed and manufactured a custom oil flushing system specifically for moveable bridge drives. The unique compact assembly saved significant time and effort on this job.

For more information, download P-8783-NG
from www.AltraLiterature.com



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



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

Stainless Steel 2000 Series, 700 Series & Motors for Bakery Conveyors

A leading Central American conveyor manufacturer needed robust drives for a range of conveyors used at a commercial bakery located in Guatemala. Realizing the growing importance of gearbox sanitation and cleanliness within their facility, the bakery wanted to begin converting from cast iron to stainless steel models as older gearboxes and drives needed to be replaced and new conveyor systems were incorporated into the plant's processing lines. To meet the bakery's needs, Boston Gear worked closely with the conveyor OEM to define specifications on new conveyor system drives and prioritize specific existing drives that would benefit the most from conversion to stainless steel solutions.

Eventually, Boston Gear began to supply various sizes of its popular stainless steel 700 Series (SS700) speed reducers along with mated stainless steel motors and special stainless steel flanges. The SS700 units feature a unique rounded housing with smooth surfaces and covered hardware designed to prevent foreign matter adherence and fluid accumulation on or under the units. The internal worm is specially-ground for enhanced efficiency and lower heat generation leading to prolonged product life.

For more information, download P-7464-BG
from www.AltraLiterature.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.

For more information, visit www.AltraWebinars.com

Upcoming North American Tradeshow

2020 Shows

NORTHWEST FOOD & BEVERAGE WORLD	Spokane, WA	February 17-19
SME	Phoenix, AZ	February 23-26
GCA	Galveston, TX	March 24-27
WESTERN TURBINE USERS, INC.	Long Beach, CA	March 29-April 1
USITT	Houston, TX	April 1-4
AFS METAL CASTING / CAST EXPO	Cleveland, OH	April 21-23
ISRI	Las Vegas, NV	April 25-30
CIM	Vancouver, Canada	May 3-6
AISTECH	Cleveland, OH	May 4-7
OTC	Houston, TX	May 4-7
GPS	Calgary, Canada	June 9-11
NAEC	Charleston, OR	June 13-18
TURBO MACHINERY & PUMP SYMPOSIA	Houston, TX	September 15-17
MINEXPO	Las Vegas, NV	September 28-30
WEFTEC	New Orleans, LA	October 3-7
GMRC	Tampa, FL	October 4-7
GIE+EXPO	Louisville, KY	October 21-23
PACIFIC MARINE EXPO	Seattle, WA	November 19-21
WORKBOAT	New Orleans, LA	December 2-4

For more information about upcoming tradeshows, visit: www.Altramotion.com/Tradeshow



IPPE 2020

January 28-30, 2020 | Atlanta, GA

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