EUROPEAN
Power Review
The Power Brands in Power Transmission

Altra Industrial Motion
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Twiflex Limited
Turning, Locking & Braking System for Marine Propulsion

Featured in this Edition...

Altra® Industrial Motion

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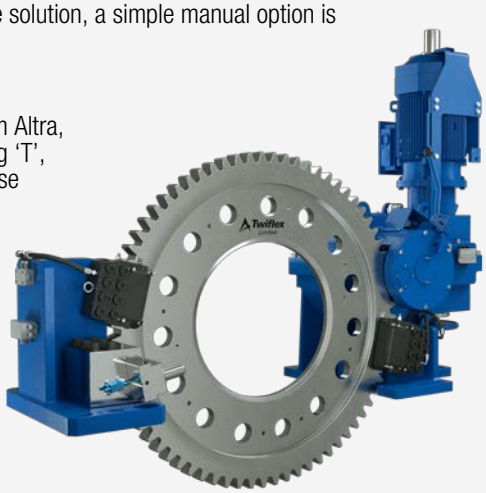
Twiflex Introduces New Turning, Locking & Braking System

The Twiflex system comprises a Turning gear, Locking device, and shaft Brake (TLB) together with a power unit (e.g. Hydraulic Powerpack) and a control panel for local operation of the system close to the equipment. TLB is available as a continuous turning option as shown or as an indexing system using a simple hydraulic 'push-pull' arrangement with the brakes and brake disc to inch the propeller shaft for maintenance and accurate alignment. For a more cost effective solution, a simple manual option is also available for this purpose.

Benefits of a Complete Integrated System

When purchasing a complete turning gear system integrated with locking and braking from Altra, customers can consolidate 3 separate interfaces into one multi-functional solution: Turning 'T', Locking 'L', and Braking 'B', which enables customers to save dimensional space, decrease installation and maintenance time and reduce costs! A Superior Solution From A Single Source

Download P-8052-C from www.AltraLiterature.com



Twiflex® Limited

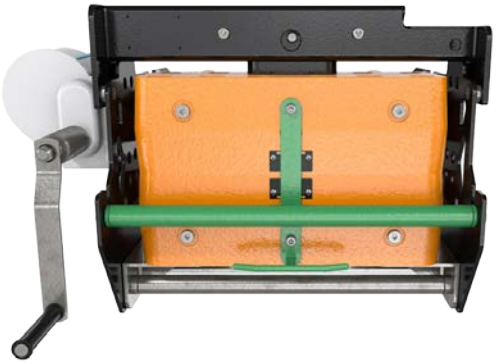
Scan to watch Twiflex TLB video

Svendborg Brakes Launches New Yaw Brake Lifting & Installation Tool

Svendborg Brakes is a global market leader in the wind energy sector for both yaw and rotor braking solutions. In addition to its wide range of brake systems that have been designed specifically for the wind energy market, Svendborg Brakes offers a full service which includes design, installation, maintenance and repair. By working in partnership with its customers, Svendborg Brakes is able to ensure that its brake systems continue working reliably throughout their entire service life – preventing unwanted downtime and maximising the production of every wind farm that they support.

The new Yaw Brake Lifting & Installation Tool (LBS 120), which was launched at the WindEnergy exhibition in Hamburg in September, enables technicians to work on brakes at installation height, which makes installation, service and repair operations faster and simpler – reducing service time by as much as 50% in some applications. Svendborg Brakes also demonstrated its new, green brake pads and had expert service technicians on hand to talk to end-users about the Svendborg Brake Service Solutions.

For more information visit www.Svendborg-Brakes.com



Svendborg® Brakes

CSK Type Combined Bearing & Freewheel

The type CSK is a sprag type freewheel integrated into a 62 series ball bearing (except sizes 8 and 40). It is bearing supported, delivered grease lubricated and protected against dust of more than 0,3 mm. The use of additional "nylos" type seals is recommended, especially when the working temperature exceeds 50°C. Oil bath lubrication is also possible.

All the CSK versions are equipped with "formchromed" sprags. This process increases several times the overrunning life time. Torque transmission is ensured by a press fit assembly into a rigid steel housing with N6 tolerance, and onto a shaft with n6 tolerance. For this reason, the initial bearing radial clearance is set at C5.

For more information download catalog P-7426-SC from www.AltraLiterature.com

Stieber® Clutch

Custom Designed E220 Clutches

Warner Electric now proposes bespoke single face electrically operated clutches to match customer's specific off-highway application requirements.

Warner Electric has just developed a clutch for hybrid transmissions and particularly for embedded environments based on the original E220 clutch design. It is also suitable for a multitude of applications.

This product is particularly adapted for clutching a diesel engine on an electric drive system when the battery power is low. Improved features have been developed specifically to meet the application's requirements such as: extended lifetime, high speed, high torque, compact design, vibration system, corrosion protection, high temperature resistance, low maintenance, stabilizing system.

For more information download P-8123-WE from www.AltraLiterature.com

Warner® Electric

Huco Air Motors Provide Reliable, Efficient Performance On Automotive Paint Lines

Driven by high consumer expectations, auto manufacturers around the world are constantly looking for ways to improve the appearance and quality of the finishes applied in their paint shops. Paint stirring speed at auto plants can be controlled directly through Huco Dynatork air motors because they have built-in variable-speed capability.

With piston air motors, power is related to the supply pressure and volume air flow, so an inlet valve can be adjusted to control both speed and torque. With this simple arrangement, a Huco Dynatork motor will hold its set speed steady; almost indefinitely.

Several leading manufacturers of robotic and automated paint finishing equipment have begun to incorporate Huco Dynatork piston air motors into their systems, replacing industry standard vane motors. The Huco Dynatork air motors have substantially reduced compressed air usage and provide consistent agitator blade RPM. The result is a better surface finish and lower operating and maintenance costs.

For more information download P-8005-HD from www.AltraLiterature.com

Huco® Dynatork

Matrix 1EB Servo Motor Brakes Range

Matrix International has been designing, testing and manufacturing industrial electromagnetic and hydraulic clutches and brakes since 1939. At SPS 2016, the company will be presenting its 1EB spring applied brake range, a low backlash brake for precision holding applications. As a key service provider of highly reliable electro-magnetic brakes for servomotor and robotic applications, the exhibition's focus on automation provides the perfect platform for the business.

Matrix boasts design, test and production facilities to allow customers to specify a solution tailored to their application. Prototypes can be rigorously assessed by testing rigs, allowing customised solutions that are proven to perform. In the absence of power, Matrix products are designed to hold the loads required with the utmost reliability. As with all Matrix brakes, products within the 1EB range can be totally customised upon request to create an optimum solution for the demands of varied applications.

For more information, visit www.Matrix-International.com

Matrix® International

Bauer HiflexDRIVE Range Extended

The recently introduced HiflexDRIVE range which combines a modular design, high efficiency, cleanability and a compact footprint has now been extended with the new BK08 to lower torque ranges.

Technical features:

BK17	Torque:	**330 Nm** at fb=1	
	Power rating:	ASM	0,37 – 2,2 kW
		PMSM	0,55 – 4,0 kW
NEW **BK08**	Torque:	**200 Nm** at fb=1	
	Power rating:	ASM	0,37 – 1,1 kW
		PMSM	0,55 – 2,2 kW

The new BK08 is also available in standard, aseptic and stainless versions. The motors of the aseptic and stainless models have a completely smooth casing, a sealed non-drive end and are capable of withstanding chemicals with a pH range of 2-12. With an IP rating up to IP69K, the latest IE4 motors and modular gearboxes, HiflexDRIVE delivers power and efficiency.

For more information download P-8083-BGM from www.AltraLiterature.com

Bauer® Gear Motor

Bibby Carbon Fibre Shaft Couplings Simplify Design and Cut Lifecycle Costs

High performance carbon fibre shaft couplings from Bibby Turboflex can dramatically simplify the design, installation and maintenance of power transmission systems requiring long horizontal or vertical shafts, while also improving dynamic performance.

The company's floating shaft couplings are a favoured solution for power transmission applications requiring the connection of widely separated shafts.

Those advantages stem from the low mass and high stiffness of the carbon fibre spacers, which can weigh up to 80% less than their steel counterparts. The maximum operating speed of a shaft coupling of a given length and diameter is determined by the critical speed of the spacer shaft: the speed at which centripetal forces cause the shaft to bow at the centre. Carbon fibre spacer shafts have a higher critical speed, allowing faster rotation and longer unsupported spans.

Carbon fibre shaft couplings are used in high speed test equipment, like motorsport engine dynamometers. Here the couplings can cope with very high rotating speeds, while their low mass also allows them to accommodate high accelerations.

In industrial applications, carbon fibre shaft couplings can allow very long shaft spans without the need for intermediate bearings or supports. They can be made with spans of more than 10m, making them ideal for applications like cooling tower fans and deep well pumps which require a motor and load to be installed a considerable distance apart.

For users, replacing an arrangement of multiple shafts and/or intermediate support bearings with a single carbon fibre shaft coupling simplifies design and installation. Moreover, by eliminating the need to monitor, maintain and periodically replace intermediate bearings, the design offers significant maintenance cost savings over the lifecycle of the equipment, especially where couplings are installed in hazardous or inaccessible areas.

Bibby® Turboflex

For more information, visit www.BibbyTransmissions.co.uk or download P-1938-BB from www.AltraLiterature.com

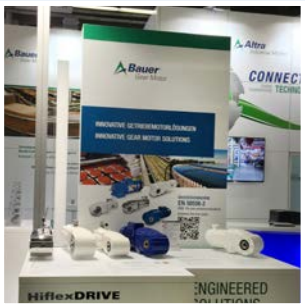
Tradeshows

Upcoming European Shows

2017 Shows

Hannover	April 24-28	Hannover, Germany
DRINKTEC	September 11-15	Munchen, Germany
HUSUM Wind	September 12-15	Husum, Germany
Interlift	October 17-20	Messe Augsburg, Germany
SPS IPC Drives	November 28-30	Nuremberg, Germany

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



SPS 2016
Nuremberg, Germany

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Featured News Stories

Warner Electric Modified ER VAR15 Brakes for Passenger Elevators

Warner Electric was selected by a large elevator OEM to develop a braking system for a challenging gearless motor elevator application that required dynamic torque < 160%, noise < 54 dB A and very high energy, up to 57kJ. To meet the tough requirements, Warner engineers worked closely with the customer's engineering team as the elevator design evolved.

Twiflex Braking Technologies Provide Reliable Performance on Challenging Mine Winder Applications

As mineral seams close to the surface get depleted, the need to dig deeper, more expansive mines has grown. This trend has significantly increased the demands on mine hoist performance. Mine hoist systems are getting larger with increased material skip capacities and faster hoist speeds (up to 50%) in recent years.

Huco Multi-Beam Couplings for Tractor Transmission

The CLAAS Group is one of the world's leading providers of harvesters, tractors, sowing machinery and agricultural systems. CLAAS Industrietechnik GmbH, based in Paderborn, Germany is part of the CLAAS Group that focuses on drive technology including gearboxes and hydraulics.