

# EUROPEAN Power Review

The Power Brands in Power Transmission

Altra Motion

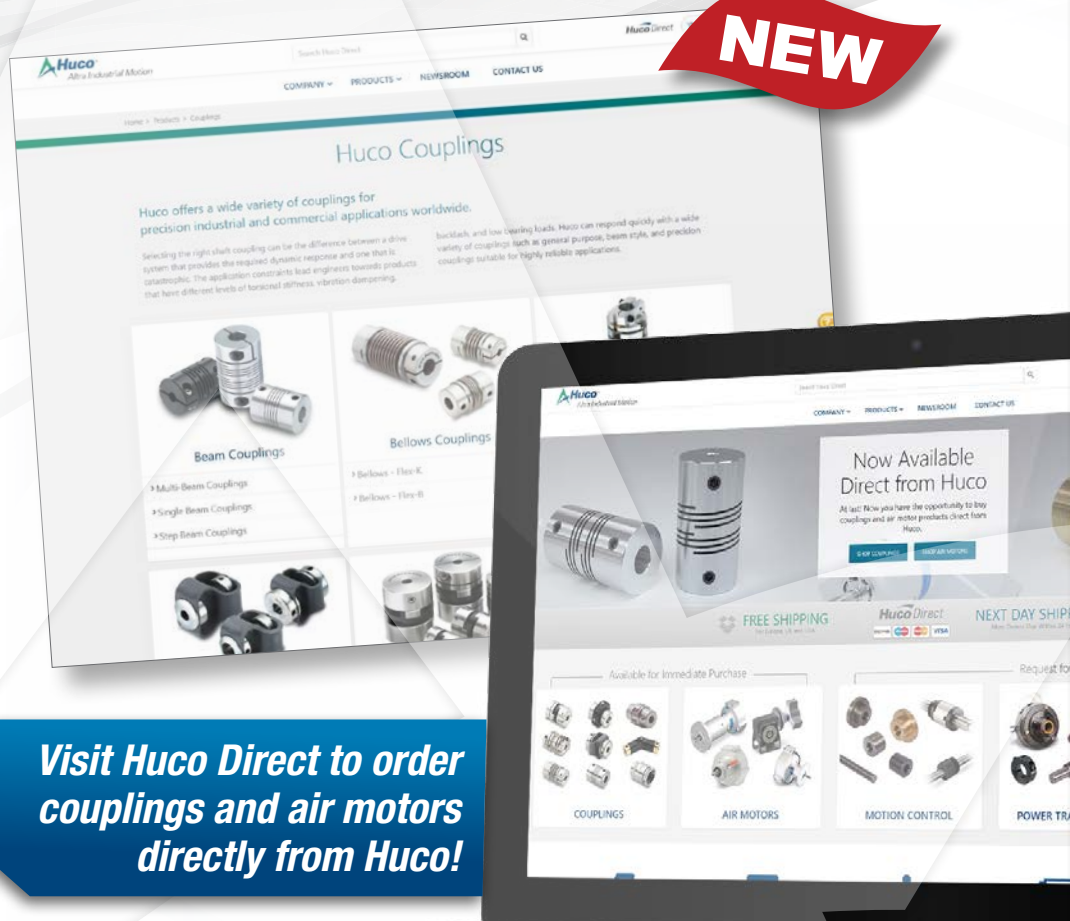
Vol. 4 | No. 1 | 2019

**Huco Direct**  
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**NEW**



**Visit Huco Direct to order  
couplings and air motors  
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## Featured in this Edition...

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Stromag Introduces the New Steel Spring Coupling (SSC)



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## Huco Direct Offers Next Day Shipping on Standard Orders

Huco Direct is offering next day shipping for online orders of precision couplings – or within 48 hours where custom bore diameters and keyways are selected. The service has been set up to make it easy to order directly from the manufacturer, keeping lead times to a minimum. As a further benefit to customers, shipping is free to the UK, Europe and the USA.

Huco is one of the leading manufacturers of precision couplings, with particular expertise in the servo, robotics and automation industries. A premier brand of Altra Industrial Motion Corp, Huco is supported by a global network of engineering centres and has benefitted from significant investment in its manufacturing capabilities. As a result of this investment, Huco Direct has been launched to allow customers to order directly from the manufacturer.

Engineers who are looking for precision couplings with exact design requirements may often find that traditional online distributors only hold a limited range in stock – meaning orders may take longer to be satisfied. Huco utilises a lean manufacturing philosophy, with very short lead times for stock replenishment.

Huco Direct offers over 85,000 standard part numbers that are available to ship within 24 hours. Should a customer require a bore or keyway option that isn't standard, then Huco can still manufacture and ship it within 48 hours of the order being made. Where customisation or specification support is required, a telephone service connects to an expert sales team. **Free next day shipping is available to customers ordering from the UK, Europe or the USA with no minimum order quantities.**



For more information,  
download P-8708-HD from  
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## EtaK2.0 – Decentral Inverter Driven Geared Motors

All EtaK2.0 geared motors are a combination of helical, shaft-mounted, bevel and worm geared motors and a variable frequency drive (VFD). They give you compact drive solutions with continuously variable speed and rated motor power up to 7.5 kW, with the VFD mounted directly on the motor. Thanks to their compact design, the entire drive needs only slightly more installation space than a conventional geared motor.

EtaK2.0 geared motors are smart power components for future-oriented system designs and can easily be adapted to specific working conditions and required process speeds. They are preferably controlled using a field bus system, but they also support control through digital and analogue inputs and outputs. The VFD provides valuable additional information for system protection and monitoring.

Features	Benefits
Space advantages	<ul style="list-style-type: none"> <li>Integrated safety technology and field bus communication</li> <li>Modular structure</li> </ul>
Time advantages	<ul style="list-style-type: none"> <li>Plug-and-socket connectors reduce assembly and installation time</li> <li>Easy memory module exchange</li> </ul>
Energy efficiency	<ul style="list-style-type: none"> <li>VFC eco mode for up to 30% energy saving under partial load conditions</li> </ul>
Mechanically and electrically robust	<ul style="list-style-type: none"> <li>Suited to extremely harsh environments thanks to IP65 enclosure rating</li> </ul>
State of the Art	<ul style="list-style-type: none"> <li>200% overload current (3 s)</li> <li>V/f control with or without encoder</li> <li>Sensorless vector control</li> <li>Short-circuit and frame fault protection</li> <li>Direct current braking</li> <li>S ramps for gentle acceleration</li> <li>Maximum output frequency 300 Hz</li> <li>CANopen, Profibus, Profinet, EtherCAT, EtherNet/IP and AS-i</li> <li>STO safety function</li> </ul>



Scan to visit the  
Bauer EtaK2.0  
product page!



For more information, download  
P-7192-BGM from [www.AltraLiterature.com](http://www.AltraLiterature.com)

## Warner Electric Introduces New ERX Brakes Range and the WES Contactless Sensor

Warner Electric has released a new range of pre-assembled electromagnetic brakes that offer superior performance for stopping and parking applications. The brakes can be specified in standard, high-torque or high-speed configurations and with a selection of accessories included. Thanks to its modular design and efficient stock holding, Warner Electric is able to offer thousands of variations with a very short lead time. Additionally, the integrity of the brakes range offered by Warner Electric is now equipped with the latest contactless sensor WES. Warner has developed this innovative technology for monitoring electromagnetic brakes in elevators and stage/theatre applications. Backwards compatible with conventional electromechanical microswitches, but with none of their inherent limitations, the patent-pending WES contactless sensor brings improved reliability to electromagnetic brake monitoring, and adds the capability for predictive maintenance, eliminating unscheduled downtime.

For more information, download  
P-8705-WE and P-8692-WE from  
[www.AltraLiterature.com](http://www.AltraLiterature.com)



"WES" for monitoring  
of brake state



## Stieber and Svendborg Brakes Combined Their Expertise to Provide Integrated Systems

The SOBO® iQ from Svendborg Brakes provides a controlled and repeatable braking sequence designed to mitigate the risk of torsional shock (and enable a consistent stopping profile) in variable load applications. The system is typically utilized in applications such as conveyors, cranes, hoists, water gates, bridges, escalators and countless others. As a standalone unit, the SOBO® iQ is capable of controlling up to four independent hydraulic power units. All brakes can be controlled by the single unit in a single mechanical chain.

The Stieber RDBR-E roller ramp type backstops are externally mounted, self-contained on a shaft extension with a torque arm. Alternatively, the RDBK from Stieber is a centrifugal lift-off sprag type backstop designed for use on the high speed or intermediate shaft. With an internal torque limiter, the RDBR-E and the RDBK are built to be operated on large inclined conveyors, where the release function or load sharing is required. The RDBR-E and the RDBK also protect the conveyor belt system by cutting the peak loads. Both series can be delivered with hydraulic release functionality.

Stieber and Svendborg Brakes have combined their expertise to offer customers an intelligent solution for their application. Recently, the RDBK backstop including a complete SOBO® iQ System was used to protect the emergency auxiliary drive on a cement kiln. Kiln drives are designed to rotate in one direction only at a very low speed. An overrunning clutch allows the auxiliary drive to stop in normal operation when being driven by the main motor. Once the kiln comes to a stop under load, the overrunning clutch will lock when the direction of the torque changes. Due to the high gear ratio, this can result in a dangerous over-speed of the auxiliary drive in reverse direction. To prevent the system from reversing, a backstop is included in the drive-train. However, for maintenance and repair reasons, reverse rotation of the kiln drive might sometimes be necessary particularly if the system comes to a halt at full load.

An RDBK backstop with SOBO® iQ is a compact solution that can do both; hold the load and release it safely. The SOBO® iQ can be equipped with an IOT (Internet of Things) module with remote and predictive maintenance available on demand.



## Bibby Turboflex Celebrates Its 100th Anniversary

On September 18th, Bibby Turboflex will be celebrating its 100th Anniversary, surrounded by partners, customers and associates.

Bibby Turboflex has been, and remains, a leading innovator in high performance flexible couplings and engineering solutions for rotating equipment for the last 100 years. Now part of Altra Industrial Motion, with a reach covering more than 70 countries, our vision continually grows without compromising the values which led to such unrivalled success.

With roots dating back to its founder, Dr. James Bibby, the inventor of the resilient grid coupling in 1917, and to the development of the profile disc coupling in 1958, Bibby Turboflex has continued in the pioneering footsteps of these revolutionary leading lights.

Reliability, safety and accuracy are vital in both new and established models. The company strives to increase the return on investment by virtually eliminating downtime and optimising efficiency.



Visit [www.BibbyTurboflex.com](http://www.BibbyTurboflex.com)

## Keeping Wind Turbines Cool

Wind turbine manufacturers face a continuous battle to improve output and efficiency, both of which are affected by heat generation and the ability to keep the equipment in the nacelle at optimum temperature. While several solutions are available, some manufacturers are looking for a simple approach that will deliver performance while minimising the complexity of maintenance procedures for operators. Svendborg Brakes is taking up the challenge by introducing the cooling system as a third product section additional to brakes and hydraulics. Specifically designed for cooling the generator and converter, the new system developed by Svendborg Brakes uses materials that are both lightweight and offer excellent corrosion resistance. By concentrating on the needs of the operator, the designers have also delivered a system that meets the criteria set out by the turbine manufacturers – for both on and offshore applications globally.

The pump unit has a simple operating principle and maintenance is easy to perform and well within the capabilities of engineers employed by operators. In contrast, multi-stage pumps are more complex in terms of both operation and maintenance.

Additionally, we can build various type of cooling systems according to customer specification, no matter if it is for wind turbines, oil and gas, mining or for gear box cooling.



For more information, download  
P-8719-SV from [www.AltraLiterature.com](http://www.AltraLiterature.com)



## Twiflex Locking Devices for Marine Propulsion

With the continuing requirement for increased safety, Twiflex offers a range of devices to manually lock the shaft during maintenance providing a safer working environment.

The devices are available as either axial locking using holes in the disc face (or gearwheel as part of the Twiflex Turning, Locking, Braking TLB system) or radially locking using a tapered pawl which is designed to engage in slots machined in the outer disc or coupling periphery.

### Features

- **Increased Safety:** Enables safe locking of the shaft for maintenance and to stop propeller rotation caused by a flow stream when stationary
- **Improved Fuel Efficiency:** Used to lock the shaft to prevent 'wind milling' whilst in operation (twin or multiple screw)
- **Shaft Line Protection:** Locking to protect redundant or damaged shaft lines whilst at sea

### Benefits

- Full range of locking forces available up to 500 kN
- Axial and radial engagement as standard
- Positive lever actuation which remains locked when engaged
- Design offers a more cost effective and compact solution when holding is the only requirement for safety critical applications
- Available as either base or face mount

- All devices equipped with lock on/ lock off status sensors
- Multiple devices used together will provide higher locking torques
- High capacity, custom solutions on request



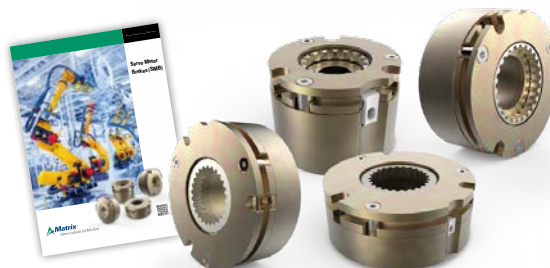
For more information, download P-8762-TF from [www.AltraLiterature.com](http://www.AltraLiterature.com)

## Matrix Adds 2 New Sizes to the SMB (Servo Motor Brakes) Range

### Standardised Servo Motor Brakes Combine Greater Choice with Reduced Lead Times

Matrix has expanded its range of standardised servo motor brakes (SMBs) designed to match popular motor sizes. The expansion offers greater diversity for the most common frame sizes as well as increased capacity at the top end of the range. The result? Customers now have greater selection of optimal braking solutions and the ability to service larger applications, all on reduced lead times. Matrix's experience in the servomotor sector and understanding of customer needs has guided the development of the SMB range. The new 5 Nm SMB090 increases the SMB range's coverage for the most competitive motor size range, where specific size and torque are critical for customer requirements. In addition, the 32 Nm SMB155 provides a solution for larger servomotor applications where high torque and robust design are required. The principle of the SMB range is to deliver a rapid solution to the customer by standardising the product, reducing front end design work and streamlining development. That isn't to say these brakes don't offer specialised performance though, through experienced design and years of sustained background development, Matrix has created a product perfectly suited for most servomotor applications, including robotics, industrial automation, remote operated vehicles (ROVs), medical and printing among others.

For more information, download P-8475-MX from [www.AltraLiterature.com](http://www.AltraLiterature.com)



## Stromag Introduces the New Steel Spring Coupling (SSC)

The new spring-loaded coupling, which takes the shock loading out of drive transmission, offers a robust solution that can be tailored to suit any application in the off-highway and construction sectors.

Resistant to high temperature due to the application of steel and high temperature friction material, the SSC can be adapted to tailor-made drive trains by utilisation of various spring packs and friction materials. This compact solution is long lasting with no wear and tear of the rubber material.

### Benefits include:

- Customized torsional stiffness adapted to the application
- Compact solution which fits in every installation space
- 2in1: Combination of coupling and clutch
- Smoothly starting due to two-stage characteristic of the torque curve

### Functions:

- Transmission of torque
- Damping of torsional vibrations
- Absorbing of high shock loads
- Fail safe system for steel spring (patent applied)
- Suitable up to 120°C ambient



For more information, download P-8676-SG from [www.AltraLiterature.com](http://www.AltraLiterature.com)