

EUROPEAN Power Review

The Power Brands in Power Transmission

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Servo Motor
Brakes (SMB)

**NEW Matrix
Servo Motor
Brakes (SMB)**

**Now available in
popular standard
sizes!**

NEW



Matrix Servo Motor Brakes (SMB)

For more than 30 years, Matrix, a company of Altra Industrial Motion, has manufactured more than 1000 variants of spring-applied, electromagnetically released brakes for servo motor manufacturers in Europe, USA and Asia.

Servo-driven solutions can achieve faster speeds with more precise accuracy while providing greater flexibility and quicker changeover in various industrial applications including: automation and robotics, machine tools, packaging and material handling, medical, assembly and semi-conductors and military.

Matrix currently supplies many key servo motor OEMs and has proven to be one of the industry leader in this industry.

The brand is now introducing its brand-new range of standard sizes aligning supply chain, reducing engineering review time and insuring quick order processing to answer customer's need.

**For more information, download P-8475-MX
from www.AltraLiterature.com**



Twiflex LCS Hydraulic Power Unit

The Twiflex type LCS is a compact electro-hydraulic power unit range designed to operate small caliper brakes in a proven, reliable package.

It provides on/off control of spring-applied ("passive") brakes, with a selectable "fast-approach/soft-braking" function integrated into the circuit as standard. This feature rapidly brings the brakes on to a factory-set touch pressure (pads in contact with the disc face) before the remaining pressure decays to zero and the brakes gradually apply.

A wide range of motor and auxiliary connection voltages can be accommodated.

If required, a terminal box may be specified, in which all electrical connections can be made. This also permits the addition of a motor contactor if preferred.

A hand-pump assembly may be provided as an option to manually release the calipers in the event of complete power loss.

The LCS is normally mounted via the M10 holes provided in the manifold block. A bracket is also available which permits base-mounting.



**For more information, download P-8159-TF
from www.AltraLiterature.com**



Turboflex Plus Coupling by Ameridrives and Bibby Turboflex is Now Available

This high-performance coupling is designed with technology that provides solutions for turbomachinery applications.

As a cost-reduced disc coupling that provides exceptional value, the Turboflex Plus meets market demands for high performance at an economical price. Available are three different types of Turboflex Plus couplings, which demonstrate the flexibility that this solution provides. All models are fully API-671/ISO 10441 compliant for critical oil and gas, energy, and petrochemical applications.

**For more information,
download P-8366-C & P-8388-C
from www.AltraLiterature.com**



Scan to watch the
Turboflex Plus video



Huco Piston Air Motors: A Trusted Proven Technology

Amid the buzz surrounding Industry 4.0, or the Fourth Industrial Revolution, it is easy to forget the effect of the technologies that powered the industry's earlier transformations. In these applications, industrial engineers are often forced to adopt alternative technologies. They may install electric motors a safe distance away, for example, and use shafts and other mechanical transmission components to deliver this power where it is needed.

A safer, simpler, and easier alternative in many of these applications is the use of motors powered by compressed air. Air has a host of advantages over other technologies. It won't ignite flammable atmospheres or contaminate most products. It is easily distributed through simple, low cost pipework and in most production environments it is already widely used and readily available. Moreover, air motors are often smaller for a given power than their electric counterparts, which is a benefit where space is tight.

For more information, download **P-8297-HD & P-1700-HD** from www.AltraLiterature.com



HiflexDRIVE Range Extended Even Further

The HiflexDRIVE range which combines a modular design, high efficiency, cleanability and a compact footprint has now been extended further with the new **BK04** to even lower torque ranges.

Technical features:

BK17 Torque: 330 Nm at fb=1

BK08 Torque: 200 Nm at fb=1

NEW BK04 Torque: 80 Nm at fb=1

Ratio Range: 4,54 – 108,6 :1

Ratio Range: 4,44 – 102,5 :1

Ratio Range: 7,25 – 63,33 :1

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-7191-BGM** from www.AltraLiterature.com and visit www.HiflexDrive.com



Stieber RDBK Centrifugally Lift Off Sprag Freewheels

The type RDBK is a centrifugally lift-off sprag RSCI high speed backstop equipped with integral torque limiter. The latter limits the backstop transmissible torque to a value that is factory set-up according to customer request.

This design will be used mostly as backstop in multidrive systems, such as on large inclined conveyors, where two or more backstops share the reverse load.

The torque limiting function is performed through a multi-disc brake working in oil. This solution provides not only for a high torque density of the complete unit, but also insures that the set slip torque remains constant over the working life time regardless of the environmental conditions.

The RDBK sub-assembly which rotate backwards under overload is fully bearing supported. The unit is capable of performing as many reverse rotations as may be required (within the limits of energy dissipation) to completely unload the conveyor prior to maintenance work being carried out. Within some time intervals, this type can rotate regularly backwards damage free.



For more information, download **P-7426-SC-A4** from www.AltraLiterature.com



Svendborg Brakes Global Service Solutions Offers Brake Users Turnkey Maintenance Support

When providing high performance braking solutions for heavy duty applications in the renewable energy, offshore, mining, oil & gas and steel sectors – reliable maintenance support is of the utmost importance to reduce downtime and increase profitability.

Due to these factors, Svendborg Brakes offers a global 24/7 service support service, facilitated by highly competent engineers, who utilise specific knowledge on individual systems to enact customised maintenance strategies, or react quickly to emergencies.

Intimate knowledge of applications allows Svendborg Brakes engineers to accurately predict specific types of wear on brakes. This enables Svendborg Brakes to warn operators when components will need checking or overhaul. The result is a much more proactive approach towards maintenance, with preventative measures in place to guard against downtime and reduce repair costs.

Users can contact Svendborg Brakes experts anytime for free by phone or email via the 24/7 support service. The brake manufacturer offers the dedicated Svendborg Brakes Service Support App for iOS and Android, which offers instant communication with a highly qualified technician around the clock, anywhere in the world. A wide choice of communication options for end users ensures increased responsiveness in worst case scenarios.



Stromag TDXB Thrustor Disc Brakes

TDXB Brakes are designed for heavy duty operations such as steel works, mining and port applications. TDXB Brakes are fail-safe brakes, spring-applied, electro-hydraulic thrustor released.

Symmetric and compact design of the TDXB allows an easy mounting in a restricted space. Robust construction brings to these brakes reliability, long life and safe operation. These brakes offer various spring/thrustors combinations.

Benefits include

- Torque range 660 – 24780 Nm for discs
Ø 355 to 995mm
- Fail-safe braking by spring application
- Designed for restricted spaces - symmetrical design
- Stromag high performance linings
- Simple and fast setting of the braking force
- Robust design for intensive braking cycles
- Wide range of options: control switches, automatic lining wear compensation, manual release, high temperature.
- High resistance against vibrations

Applications

- Steel works: Cranes – Rolling mills
- Material Handling: Ship Loader / Unloader
– Stacker / Reclaimer – Bucket wheel
- Mining: conveyors - Ball Mill / Crusher
- Workshop Cranes
- Tower Cranes
- Nuclear Cranes

**For more information, download P-8311-SG
from www.AltraLiterature.com**

