

ALTRA INDUSTRIAL MOTION SA (PTY) LTD NOW OFFERS THE COMPLETE RANGE OF THE OVERRUNNING CLUTCHES AND BACKSTOPS FROM STIEBER.

As part of Altra Industrial Motion (USA), Altra Industrial Motion SA (Pty) Ltd. provides customers with the engineering and application expertise of the world's leading brands in mechanical power transmission and motion control technologies.



Stieber was founded in Munich in 1937 and is together with sister companies Formsprag and Marland in the USA, the world's market leaders for overrunning clutches and backstops.

Stieber has been certified according to DIN EN ISO 9001 since 1997 and according to ISO 14001 (environment management system) since the year 2000. In addition, an internal monitoring process ensures that quality, timeliness and costs are always to the fore.

Stieber can reflect on numerous innovative developments, during the company's history such innovations have made it the Global market leader. Stieber proved its technical ability once again during the development and design of the largest backstop in the world, for example. This and other backstops are being successfully used even under the toughest of conditions.

Kevin Gill Managing Director of Altra Industrial Motion SA (Pty) Ltd says: Having the world leading brands of, Stieber, Marland and Formsprag under one "roof" in South Africa, we can offer our customers the widest range of overrunning clutches and Backstops. In addition, with this concentration it gives us and our customers the possibility to create new solutions for the application.

Uwe Walter Managing Director of Stieber says: The strategy to consolidate the Altra Industrial Motion, Overrunning Clutch business in South Africa was already done some time ago. I am excited with the offering that Altra Industrial Motion SA (Pty) Ltd can give our customers. Stieber adds value with the concentration of the leading brands to Altra Industrial Motion in South Africa.



The Torque Limiting / Load Sharing Backstops RDBK / RDBR-E of Stieber are patented.

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This is only one example for the innovative strength of Stieber.

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WHY DO CUSTOMERS SELECT TORQUE LIMITING BACKSTOPS OF **STIEBER**?



UNIQUE ENGINEERED BACKSTOP SOLUTION

Stieber RDBR-E roller ramp type low-speed backstops are externally mounted, self-contained on a shaft extension with a torque arm. With an internal torque limiter, the RDBR-E is designed for use on large inclined conveyors, where a release function or load sharing is required. The RDBR-E also protects the conveyor belt system by cutting peak loads.

The Stieber RDBK is a centrifugal lift-off sprag type backstop with an internal torque limiter which is designed for use on the high-speed or intermediate shaft of the driving unit in multi-drive systems, such as on large inclined conveyors, where two or more backstops share the reverse load. These innovative backstops provide up to 3.5

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MANY CUSTOMERS PUT THEIR TRUST IN STIEBER.

Stieber offers the broadest portfolio of standard overrunning clutches and backstops globally. In addition, we can recognize customer specific designs from minor modifications of a standard product up to tailor-made solutions.

Standard Design Examples:



CSK

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.



AS

Type AS is a roller type freewheel non-bearing supported. Bearings are required to support axial and radial loads. Lubrication and sealing must also be provided by the installation. Nominal outside dimensions are the same as series 62.. ball bearings



AL

Types AL..F2D2/F4D2 are roller type freewheels, self-contained, sealed and bearing supported, using two 160.. series bearings. Units are delivered oil lubricated.



RSCI

Type RSCI is a centrifugal lift off sprag type freewheel with the inner race rotating. Only the inner race is designed for freewheeling.

Special Design Examples:



Stainless Steal Backstop for Pump Drive

The pump drive backstop operates under water and prevents the pump from running backwards when the motor is turned off.



Customized Torque Limiting Backstop

After a power increase of the drive the original installed backstop failed several times due to overload. This retrofitted backstop with special torque arm arrangement cuts the peak loads and allows a controlled backwards rotation with the hydraulic release functionality.

times more torque capacity within the same volume and up to 15 times more energy dissipation than conventional designs.

STIEBER RDBR-E LOW SPEED BACKSTOPS ARE HARD AT WORK IN AUSTRALIA

A load-sharing, releasable backstop solution was needed for use on new conveyors at the Moolarben Coal Complex in Australia. When fully operational, the massive facility will produce approximately 17



million tons of coal per year. The backstops are installed on the mine's 1800 mm (5.9 ft.) wide, 3,050 m (1.9 mile) long drift conveyor that

transports coal from the longwall system underground to the surface. Additional releasable backstops were also required for the mine's surface ramp conveyor.

The Stieber backstops were chosen to meet the tough conveyor application requirements due to their superior release functionality.







The Brands of Altra Motion

Couplings

Ameridrives www.ameridrives.com

Bibby Turboflex www.bibbyturboflex.com

Guardian Couplings www.guardiancouplings.com

Huco

www.huco.com

Lamiflex Couplings www.lamiflexcouplings.com

Stromag www.stromag.com

TB Wood's www.tbwoods.com

Linear Systems

Thomson www.thomsonlinear.com

Warner Linear www.warnerlinear.com

Geared Cam Limit Switches

Stromag www.stromag.com

Engineered Bearing Assemblies

www.kilianbearings.com

Electric Clutches & Brakes

Matrix www.matrix-international.com

Stromag www.stromag.com

Warner Electric www.warnerelectric.com

Deltran www.thomsonlinear.com

Belted Drives

TB Wood's www.tbwoods.com

Heavy Duty Clutches & Brakes

Twiflex www.twiflex.com

Stromag www.stromag.com

Svendborg Brakes www.svendborg-brakes.com

Wichita Clutch

Gearing & Specialty Components

Bauer Gear Motor

Boston Gear www.bostongear.com

Delevan www.delevan.com

Delroyd Worm Gear www.delroyd.com

Nuttall Gear www.nuttallgear.com

Engine Braking Systems

Jacobs Vehicle Systems

Precision Motors & Automation

Kollmorgen www.kollmorgen.com

Miniature Motors

Portescap www.portescap.com

Overrunning Clutches

Formsprag Clutch

Marland Clutch

Stieber www.stieherclutch.com



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