

En route to becoming a one-stop provider



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It was only a few months ago that RINGSPANN presented new electrical disc brakes for machinery and plant construction. Right on time for this year's Hannover Messe, the company is adding yet another two new product lines to its portfolio with electrohydraulic disc brakes and electrohydraulic drum brakes. At RINGSPANN, users from all key industries can thus choose from a comprehensive range of industrial brakes with braking torques of up to 600,000 Nm. This product range expansion is enabling the company to take the next step on the path to becoming a one-stop supplier for drive technology.

Thanks to these two new product lines, RINGSPANN is able to complete its range of industrial brakes, which now encompasses all technically relevant construction types and operating principles. It involves a series of electrohydraulic disc brakes for braking torques of up to 30,000 Nm and a range of modern drum brakes with maximum braking torques of 10,000 Nm. According to the respective area of application, application case and installation situation, these brake types are suitable for realising stop, delay and holding systems in conveyor and crane systems, lifting and handling systems, as well as mining, construction and land machines. They are also used in marine technology, recycling technology and metallurgy.

1. New RINGSPANN product line: The series DS of electrohydraulic disc brakes for braking torques of up to 30,000 Nm. (Image: RINGSPANN)

2. Completing the RINGSPANN range of industrial brakes: A range of modern drum brakes with maximum braking torques of 10,000 Nm. The picture shows a drum brake of the product series NC. (Image: RINGSPANN)

3. The new drum brakes type DT-ST of RINGSPANN: A trump card in those instances when brake performance is required between motors and gearboxes – for example in bulk goods conveyor systems. (Image: RINGSPANN)

Which brake is the right one?

In order to make it easier to identify and select the suitable brake for designers and engineers, RINGSPANN has developed a brake calculation tool that can be used free of charge after registering on the www.ringspann.com website. It is very easy to use and allows you to calculate the braking torques (clamping forces) and braking forces when braking. In concrete terms, you can for example calculate the braking of rotating masses (e.g. shafts), chassis, cable winches and conveyor belts. The tool hereby takes all important parameters in practice into consideration: Mounting of the brake, brake disc form, friction block wear, ambient temperature and much more.

Brakes with braking torques of up to 600,000 Nm

At Hannover Messe 2017, in Hall 25, Booth D13, engineers and buyers will - among other things - be able to discover how the new disc and drum brakes from RINGSPANN complete the company's current range of brake products in the mid-range performance segment. While the pneumatic, hydraulic and electromagnetic RINGSPANN brake calipers boast braking torques of up to 40,000 Nm for general mechanical engineering applications, RINGSPANN hydraulic brake calipers achieve tremendous braking torques of up to 600,000 Nm for wind turbines and mining installations. Applications in drive technology and machine construction that require braking torques of a maximum 8,000 Nm (e.g. machine tools, winders) are meanwhile covered by RINGSPANN through their compact and lightweight electromagnetic disc brakes. "With their respective upper clamping force limits of 30,000 Nm and 10,000 Nm, our new electromagnetic disc and drum brakes in the DS, DT-NC and DT-ST product series fit perfectly within our product spectrum as a whole. They form a strong midfield", says Franz Eisele, Head of the Brakes and Couplings Division at RINGSPANN. At the same time, he stressed the importance of this product range expansion for RINGSPANN'S medium-term corporate strategy: "With the performance spectrum and the type diversity of our current portfolio, we belong to a small group of manufacturers whose assortment of products represents a comprehensive technological cross-section of the world of industrial brakes", states Eisele.

New ranges of application and market segments

Moreover, these two new product lines open up additional areas of application for industrial brakes to RINGSPANN. While the electrohydraulic disc brakes DS present an intriguing solution for use in material handling systems (e.g. container cranes), the electrohydraulic drum brakes DT-NC and DT-ST have particularly proven themselves to be a trump card in those instances when brake performance is required between motors and gearboxes - for example in bulk goods conveyor systems. The drum brakes can additionally be tailored to their specific application thanks to a whole range of options - such as automatic adjustment in case of friction block wear, an adjustable brake spring, a heat-resistant brake thruster or extra-wide shoes and drums - to name just a few examples. Visitors who visit the RINGSPANN booth at Hannover Messe (Hall 25, D13) will also receive more information on this topic.

In summary, by rounding off its range of industrial brakes, RINGSPANN has come one step closer to achieving its objective of establishing a one-stop shop for industrial drive technology. The company management has made it known that further product expansions in this regard will be undertaken in other business segments in the coming months - among others in the Freewheels, Couplings and Shaft-Hub-Connections segments. ■

Franz Eisele

Head of Division Brakes and Couplings at RINGSPANN

