

## Control, hold and stop with a number of options

**Thanks to the product offensive in the last months, RINGSPANN now boasts an almost complete assortment of industrial brakes. Particularly its broad selection of electro-hydraulic drum and disc brakes with options for customer-oriented optimisation are setting global standards. These brakes are primarily used in drive and safety systems of lifting and conveyor systems in the steel industry and container logistics as well as in crane construction and marine technology.**

They ensure the operational safety of bucket wheel excavators and bulk goods conveyors, enable the secure handling of containers and ensure the smooth handling of melting pots at the blast furnaces of steel producers. All over the world, they are also in use as indispensable components in drive units of mobile portal cranes. We are talking about the electro-hydraulic drum and disc brakes in RINGSPANN's current portfolio, which is currently among the best-stocked offers on the market. And yet the currently catalogued standard range, with brake torques ranging from 230 to 7,200 Nm for drum brakes (DT

series ...) and from 2000 to 19,900 Nm for disc brakes (DS series ...), conveys at best just a vague impression of the true scope of performance that RINGSPANN can offer engineers, developers and purchasers in this brake technology segment. And that is because, in addition to the almost all-encompassing range of models – with the corresponding control systems –, the customer-oriented configuration of electro-hydraulic drum and disc brakes along with the fast spare part services and modern test bench technology rank among the company's greatest strengths.

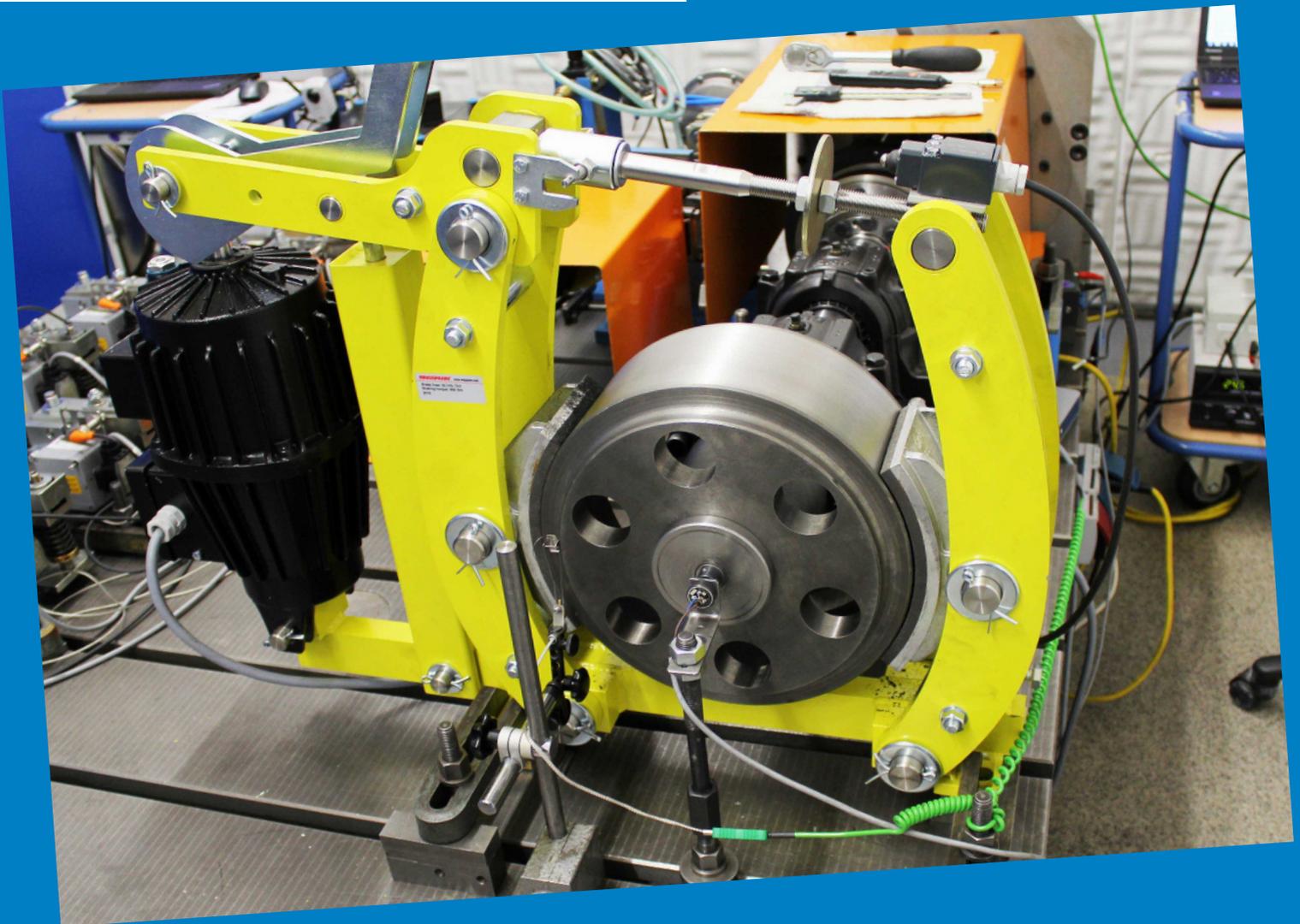
## From catalogue model to customer solution

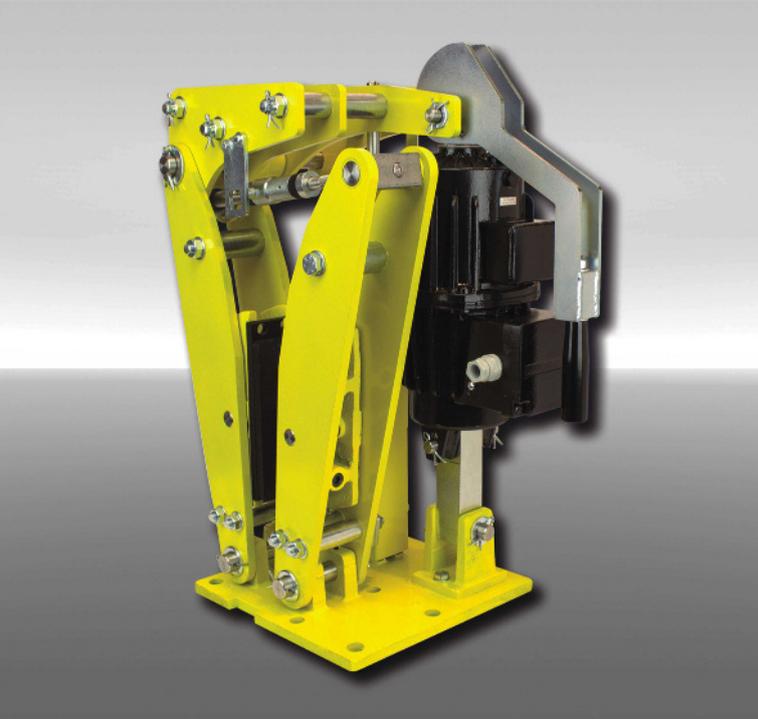
An important linchpin in all of this is RINGSPANN's Italian subsidiary close to Milan. It has assumed an increasingly pivotal role due to the organisational integration of a brake manufacturer acquired at the beginning of the year, and in the technological tête-à-tête with the RINGSPANN specialists at the firm's headquarters in Bad Homburg is able to transform any electro-hydraulic drum or disk brake from the catalogue range into a customer and application-specific ideal solution. To do so, there is not only a broadly diversified range of technical options available, but also the in-house production capacities of RINGSPANN Italia. And if it shouldn't be possible to specially tailor broader brake shoes or drums, an automatic friction lining wear regulation, an externally adjustable brake spring, a heat-resistant lifting device or sinter metal friction linings – to name just a few possibilities from the wealth of options – for the selected electro-hydraulic brake for your application, the CNC machinery in Limbiate opens up further scope for technical fine tuning.

*Infobox*

## All functional types and design types

RINGSPANN brakes are deployed as stopping, control and holding systems in conveyor and crane systems, lifting and handling systems, mining and construction machines as well as in marine technology, recycling technology and metallurgy. With the latest integration of additional electro-hydraulic drum brakes with frames of cast iron or steel as well as the respective disc brakes in to the RINGSPANN portfolio, customers now have a technologically almost comprehensive range of brakes, which comprises all important functional and design types. In order to make it easier for designers and engineers to select the right brake, RINGSPANN has also developed a calculation tool that can be used free of charge at [www.ringspann.com](http://www.ringspann.com). It enables you to determine braking torques (clamping forces) and braking forces. It allows you for example to calculate the braking of rotating masses (e.g. shafts), carriages, cable winches and conveyor belts.





## Just-in-time and with a test report

RINGSPANN also excels in the field of electro-hydraulic drum and disk brakes thanks to other key factors. The constant availability of all technically important components on site in Italy for example secures a high degree of availability of the brakes and enables the integration of the brake assembly into just-in-time scenarios of European customers. All spare and wear parts

are also available on standby and supplied in record time. The brakes customer is thus provided with the greatest possible planning and investment security by RINGSPANN thanks to the company's comprehensive test bench technology. RINGSPANN is able to test check and verify braking torques, holding forces, reaction times and many other key performance parameters of the brakes from its DT and DS series on its own test benches. In addition to detailed installation instructions and user manuals, the customer also receives all the necessary test reports and protocols for their technical documentation and quality assurance. By the way: The RINGSPANN's electro-hydraulic drum brakes comply with the connection dimensions of DIN 15435.

The takeover of the north Italian brake manufacturer Ostelectric in January of this year has brought RINGSPANN a crucial step closer to its future as a one-stop supplier for industrial drive technology components. The company not only boasts additional engineering and production expertise in the field of electro-hydraulic drum and disc brakes, but now also belongs to the established circle of manufacturers of electro-hydraulic lifting devices, which form the dynamic centrepiece of these brake types.

The integration of the Italian manufacturer's range of products into RINGSPANN's overall portfolio amounts to what is an enormous densification of performance of its brake range. It also means that customers of drive technology at RINGSPANN currently have access to all relevant design and functional types of industrial brakes. <<

