

Press Release

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Systems for Moscow: Knorr-Bremse at EXPO 1520

At the 6th International Fair of Railway Equipment and Technologies in Moscow from August 30 to September 2, Knorr-Bremse is showcasing products and systems from its passenger and freight car portfolio as well as special applications on booth 7 in Hall 2.

The name EXPO 1520 stems from the 1,520-millimeter track gauge used in the CIS states, as well as in Estonia, Finland, Latvia, Lithuania, and Mongolia. The trade fair at the Shcherbinka Exhibition Center in Moscow is the only one in Europe for wide-gauge railway equipment. While the 1,520-millimeter wide-gauge track has become established in Russia for historical reasons, throughout most of Europe and North America, in China and Australia, trains travel on 'standard gauge' track with 1,435 millimeters between the inner edges of the rails – the gauge of the first ever public railway line between Stockton and Darlington in England.

Knorr-Bremse is one of the long-standing players in the 1,520 market and is bringing a number of systems and products developed especially for the requirements of this market to the Russian capital – for example, the highly robust KAB60 distributor valve that Knorr-Bremse tested over two long Russian winters without one single failure. The valve feeds and vents the brake cylinders rapidly and evenly all the way to the last car – even at extreme sub-zero temperatures. Compliant with the Russian GOST standard, the valve is installed in Russian rail operator RZD's new vehicles to ensure reliable operation and reduced life cycle costs. In 2016, RZD explicitly commended the reliability of the KAB60.

The AKB1 load-dependent brake valve for freight cars, also on show, is designed to match the brake force applied as closely as possible to the load in the respective car. This is done by means of a sensor that detects differences in bogie deflection and adjusts the brake force accordingly. The AKB1 can withstand not only constant jolts and vibration, but also extreme temperatures down to minus 60° Celsius. At the same time, its innovative materials and robust design ensure eight years of maintenance-free operation.

Another product to be showcased at EXPO 1520 is the VV180-T 2.0 oil-free compressor – the latest generation of a technology that set new standards of environmental compatibility when it first appeared. As the compressor requires no oil for lubrication, there is no danger of any being released into the environment. The latest version offers changes in four areas: improved tribology between piston ring and cylinder liner, a redesigned cooling concept, improved condensate management and a better, more compact air intake system that reduces the height of the installation envelope, enabling the compressor to be used in a wider range of applications including metro vehicles.

The fair also provides a showcase for products and systems from Knorr-Bremse subsidiaries Selectron and Microelettrica: Selectron's train control management systems (TCMS) provide the technological backbone for connected solutions designed to ensure safety, reliability and low life cycle costs in rail vehicles. Microelettrica, the world market leader in electronic and electromechanical control components for rail transportation applications, is presenting a cross section of its portfolio of contactors, circuit breakers and power resistors.

Caption: In Hall 2, Booth 7 at EXPO 1520 in Moscow, Knorr-Bremse is presenting solutions for the broad-gauge (1520-millimeter) market such as the VV-T 2.0 oil-free compressor. | © Knorr-Bremse

Knorr-Bremse is the leading manufacturer of braking systems and supplier of additional sub-systems for rail and commercial vehicles, with sales totaling approximately EUR 5.5 billion in 2016. In 30 countries, some 25,000 employees develop, manufacture, and service braking, entrance, control, and energy supply systems, HVAC and driver assistance systems, as well as steering systems, and powertrain and transmission control solutions. As a technology leader, through its products the company has been making a decisive contribution to greater safety by road and rail since 1905. Every day, more than one billion people around the world put their trust in systems made by Knorr-Bremse.

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