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Knorr-Bremse at the IAA: Augmented Reality Tour shows off latest trailer technology

- All trailer and aftermarket topics on show in outdoor area D107
- Third-generation trailer EBS systems with added functions
- Next generation trailer air disk brake

Munich, September 13, 2018 – Knorr-Bremse, the global market leader for braking systems and a leading supplier of other rail and commercial vehicle systems, is using iPads and augmented reality to show what's possible in the fields of brake control, chassis management and wheel end for trailers.

At the 2018 IAA Commercial Vehicles show, Knorr-Bremse, is adopting a new approach by showcasing all aspects of its trailer and aftermarket offerings at a separate, dedicated booth. At booth D107 in the outdoor area, in line with the motto "The Trailer Experience Featuring TruckServices", the company will be presenting not only the latest state of the art but also the next generation of its trailer brake control and chassis management solutions, along with its comprehensive range of aftermarket services. At the same time, Knorr-Bremse will also be offering insights into the future of the trailer sector, using augmented reality to illustrate the finer points.

According to Dr. Peter Laier, Member of the Executive Board of Knorr-Bremse AG responsible for the Commercial Vehicle Systems division: "With the third generation of our trailer EBS and the next generation of our park and shunt valve, Knorr-Bremse is actively driving forward the greater integration of individual components in the brake control and chassis control sector. The benefits for vehicle manufacturers are obvious: added functions combined with reduced cost and effort at the planning and installation stages. Another products that stands for greater efficiency is our NEXTT® single-piston disc brake that we have developed specifically for the trailer market."

Product engineering present and future

Thorsten Seehars, Member of the Management Board of Knorr-Bremse Commercial Vehicle Systems adds: "We are using three different ways to show visitors to our Trailer and Aftermarket booth the technical advances that we've made: First we have direct comparison of the product components; then we have a container chassis tipped on its side in which the latest components are installed; and finally we have animated displays that let visitors look inside the individual components and compare the different system generations." iPads enable visitors to dive into the present and future of trailer engineering with the aid of augmented reality.

Along with developments on the control system side, Knorr-Bremse will also be showcasing the evolution of the wheel end. The latest ST6 and ST7 dual-piston brakes and the NEXTT single-piston brake that made its debut this year will be presented side by side, making it easier to compare the details. Here too, iPads provide insight into the inner workings of the products.

Trailer EBS systems compared: more functions, easier installation

Three generations of Trailer EBS systems will be on show at the Knorr-Bremse booth: a remanufactured G1 product, the current TEBS G2.2 and the up-and-coming solution, TEBS G3. The third generation features integrated controls and actuators for both the electro-





pneumatic air suspension and the lift axle. For manufacturers that means fewer system parts, easier planning, more simple piping and less cost and effort during installation. This development is due not only to the increasing popularity of lift axles but also to increasing levels of vehicle automation that require central control and continuous monitoring of the individual functions. In this respect, TEBS G3 takes the next step toward the future. Other trailer products on show will include the iTAP trailer remote control system, RDC ramp docking control and the tire pressure monitoring system TPMS.

Parking and maneuvering valve (POM): built in raise-lower control

Much like the current POS parking and shunt valve, the new generation (POM) enables the trailer parking brake to be released without the trailer being hitched up to the truck. As a result, the vehicle can be repositioned and safely re-parked with no need for an external connection to a compressed air line and power supply. The POM system also integrates control of the raising/lowering function for the electro-pneumatic air suspension. So in addition to parking and maneuvering, the height of the load bed can be easily and conveniently adjusted with the same device. This new module too saves manufacturers significant cost and effort at the planning and installation stages and makes the ideal complement for TEBS G3.

Knorr-Bremse TruckServices: Keep it running

In line with its Lifetime Efficiency approach, at its booth Knorr-Bremse TruckServices will be presenting its solutions for the aftermarket. From tried and tested service concepts, not least for the ST7 trailer brake, via remanufactured mechanical and mechatronic products from the EconX portfolio, all the way to special tools for specialist workshops, there is a solution to meet every service need. Also on show will be ProFleet Connect, the cross-brand telematics solution from Knorr-Bremse TruckServices, with full details available at the booth.

Back on the road fast with the new Knorr-Bremse Warranty Claim Handling Concept With trailer operators in mind, Knorr-Bremse is working on a new Warranty Claim Handling Concept. From early 2019, the company is planning to work together with the Alltrucks workshop network to offer a solution designed to simplify the claim management process, making for faster and less complicated help in the event of a warranty claim. Selected workshops will then be empowered to make the necessary decisions on the spot, with the aim of getting the vehicle back on the road as simply and guickly as possible.

Special events at the weekend

On the weekend of September 22 and 23, Truck Grand Prix Champion Jochen Hahn will be signing autographs at the Knorr-Bremse booth (from 12 noon). In addition, students from RWTH Aachen University will be informing visitors about their Formula Student activities and their electric race cars.

Knorr-Bremse: Shaping tomorrow's transportation. Together.

Along with traffic safety, the megatrends that will shape the mobility sector in the next few years will be connectivity, emissions reduction, electric mobility, and automated driving. Against this backdrop, Knorr-Bremse will be the systems partner for its customers going forward and will be driving forward developments in all four core areas in close collaboration with its customers. Knorr-Bremse will be presenting its portfolio of products and services at the commercial vehicle industry's key trade fairs in 2018 – IAA and Automechanika. Activities and innovations on show will include pioneering traffic safety technologies and automated transportation solutions for highway and city applications, set out under the motto Shaping tomorrow's transportation. Together.

Come and see Knorr-Bremse at the IAA Commercial Vehicles show in Hanover from September 20-27, on booth A30 in hall 17 and in outdoor area D107. At the Automechanika fair





in Frankfurt am Main from September 11-15, Knorr-Bremse will be on booth E 91 and booth G 98 in hall 3.0.

Caption: Following the current TEBS G2.2 Knorr-Bremse is presenting the third and latest generation of trailer EBS at the IAA 2018. | © Knorr-Bremse AG

Knorr-Bremse is the global market leader for braking systems and a leading supplier of other safety-critical rail and commercial vehicle systems. Knorr-Bremse's products make a decisive contribution to greater safety and energy efficiency on rail tracks and roads around the world. For more than 110 years the company has been the industry innovator, driving innovation in mobility and transportation technologies with an edge in connected system solutions. Knorr-Bremse is one of Germany's most successful industrial companies and profits from the key global megatrends: urbanization, ecoefficiency, digitization and automated driving.

About 29,000 employees (as of June 30, 2018) at over 100 sites in more than 30 countries use their competence and motivation to satisfy customers worldwide with products and services. Localization is a central focus of Knorr-Bremse's strategy. Knorr-Bremse delivers braking, entrance, control and auxiliary power supply systems, HVAC and driver assistance systems for rail vehicles, as well as braking, steering, powertrain and transmission control solutions, and driver assistance systems for commercial vehicles.

In 2017, Knorr-Bremse's two divisions together generated revenues of EUR 6.2 billion (IFRS). A comprehensive aftermarket & services business with high entry barriers gives these revenues increasingly cyclically independent stability. The company benefits from strong, entrepreneurial and experienced management. Technical excellence, reliability, passion and responsibility are deeply embedded in its corporate culture.

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