

Press Release

Munich, Shanghai, February 26th, 2019

Knorr-Bremse and one of the world's leading bus manufacturers enter into cooperation on electric buses in China

- **Knorr-Bremse EBS to be installed as standard on all new electric buses**
- **Knorr-Bremse EBS a complete success in the test category of 8-12m full electric buses**
- **Based on their complementary advantages, both companies are set to win orders for more new-energy buses and smart technology projects**

Munich, Shanghai, February 26, 2019 – Knorr-Bremse, the global market leader for braking systems and a leading supplier of other rail and commercial vehicle subsystems, is engaging in closer cooperation with one of the world's leading bus manufacturers. The supply contract recently signed, governs the provision of Electronic Brake System (EBS) customized for the manufacturer buses'.

“Based on their complementary advantages, Knorr-Bremse and one of the world's leading bus manufacturers will cooperate more extensively regarding the introduction and establishment of new-energy buses and the development of related vehicle dynamics intelligence as well as relevant cutting-edge technology,” explains Dr. Peter Laier, Member of the Executive Board of Knorr-Bremse AG and responsible for the Commercial Vehicle Systems division. The 8-12-meter electric buses equipped with Knorr-Bremse EBS for the national public transportation system in China have proved a complete success. The cooperation will therefore be extended to all of the manufacturer's other electric bus models.

Safety, high efficiency and energy-saving have been the essential requirements for operations and vehicles in China's domestic bus system in recent years. The leading bus manufacturer has been promoting the improved performance of buses, and electric buses in particular. In this context, Knorr-Bremse has become the preferred partner by virtue of its advantages in the field of electronic products such as EBS.

As BaoPing Xu, Member of the Board of Directors of Knorr-Bremse Asia-Pacific Holding in charge of the Commercial Vehicle Systems business, emphasizes: “As well as supporting the strong call to improve the safety, intelligence and energy-efficiency of commercial vehicles in China, Knorr-Bremse will continue to support China's bus industry upgrade and provide customers with pioneering products, services and technical solutions on a high level.”

A quick glance in the rear-view mirror shows that, back in 2009, Europe saw a shift in commercial vehicle electronics from pneumatic anti-lock braking to electronic EBS. EBS integrates the basic functions of braking control, ABS and ASR into a single electronic system. The advantages of electronic control over conventional pneumatic control include shorter response times and shorter braking distances – resulting in greater road safety. EBS delivers additional functions including wear monitoring, downhill cruise control and Coupling Force Control (CFC), a system that ensures optimum brake force distribution between truck and semitrailer. Knorr-Bremse offers EBS and CFC for all types of vehicle, including trailers.

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, eco-efficiency, digitization and automated driving.

About 29,000 employees 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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