

Press Release

Schaeffler at InnoTrans 2024 (Hall 21, Booth 430)

Schaeffler presents technologies and services for maximum reliability, sustainability and availability in rail transportation

SCHWEINFURT, 2024-08-26.

- Reliable product solutions for passenger and freight transport
- Improved safety and planning capability, thanks to sensor-based predictive maintenance
- Sustainable recycling management for axlebox bearings in rail applications

Schaeffler invites to join a discussion on the future of rail transport at the InnoTrans 2024 trade fair in Berlin, Germany: From September 24 to 27, 2024, the Motion Technology Company will be showcasing product solutions for maximum reliability and availability, sensor-based systems and data models for predictive maintenance, and services for greater efficiency and sustainability in Hall 21, Booth 430.

"The portfolio we are presenting at InnoTrans 2024 once again proves that sustainability is a powerful driver of innovation in the rail sector," said Dr. Michael Holzapfel, Senior Vice President, Business Unit Rail at Schaeffler. "Our technologically pioneering products and services ensure greater energy efficiency, conservation of resources, and maximum uptime. In this way, Schaeffler not only supports our customers' sustainability goals but also makes a strategically important contribution to their competitiveness."

Products for greater reliability and availability

Reliable and robust products – as exemplified by Schaeffler's TAROL axlebox bearings, one of Schaeffler's main exhibits at InnoTrans 2024 – are crucial for ensuring maximum uptime and efficiency in rail transportation. Renowned for their long service life and significantly extended maintenance intervals, these exceptionally low-friction bearings are suitable for passenger trains, high-speed trains, freight and heavy goods transport, as well as locomotives, subway trains and streetcars.

Schaeffler manufactures its TAROL axlebox bearings on an application-oriented basis according to customer-specific design requirements. This includes, for example, adapting bearing dimensions and materials to the required payload

and mileage. Special friction-optimized seals are available for freight transport locomotives (Class GG), while variants are also offered for heavy goods traffic (Class K), ensuring energy-efficient as well as safe operation. Schaeffler's TAROL axlebox bearings and their components are qualified according to the AAR (Association of American Railroads) standard as well as the European EN 12080 standard, making them suitable for use in regions including the U.S., Australia, India and Southeast Asia.

Data-based condition monitoring enables predictive maintenance

Schaeffler's Data Matrix Code (DMC) serves as the starting point for the digital supply chain of its products by identifying components with a unique laser marking. This allows for the continuous recording of product and operating data as well as maintenance information, thereby creating a digital twin for condition monitoring and predictive planning of maintenance intervals.

At the same time, the DMC serves as the digital reference for data exchange between Schaeffler, OEM suppliers and railway operators. By alternately linking databases, condition monitoring systems can be set up to access data from existing fixed systems (wayside monitoring devices). At InnoTrans 2024, Schaeffler is presenting an entry-level model based on a feasibility study conducted in Switzerland. Schaeffler will also showcase vehicle-based railway condition monitoring systems (RCMS), which further increase rail traffic safety.

Remanufacturing for more economical and sustainable rail operations

The closed-loop system is a key approach to sustainable management in rail transportation. To that end, Schaeffler has developed an extremely successful remanufacturing service for bearings that can achieve up to 95 percent resource savings, depending on the extent of reconditioning required. At the same time, Schaeffler offers the same quality and safety standards with its 100 percent return service, and the remanufactured bearings include the same warranty as new products. As a full member of the "Railsponsible" initiative, Schaeffler reaffirms its commitment to greater sustainability in the railway industry.

In another first, Schaeffler will also have its Smart Maintenance Tools (formerly known as Bega Special Tools) on display at InnoTrans. This addition completes Schaeffler's portfolio, providing a comprehensive approach that ranges from sustainable products and services to reconditioning and maintenance.

Further information about Schaeffler at InnoTrans 2024 can be found [on medias](#).

Schaeffler Group – We pioneer motion: The Schaeffler Group has been driving forward groundbreaking inventions and developments in the field of motion technology for 80 years. With innovative technologies, products, and services for electric mobility, CO₂-efficient drives, chassis solutions and renewable energies, the company is a reliable partner for making motion more efficient, intelligent, and sustainable – over the entire life cycle. Schaeffler describes its comprehensive range of products and services by means of eight product families: From bearing solutions and all types of linear guidance systems through to repair and monitoring services. Schaeffler is with around 110,000 employees and more than 250 locations in 55 countries, one of the world's largest family-owned companies and one of Germany's most innovative companies.

Schaeffler will be showcasing technologies and services for maximum reliability, sustainability and availability in rail transportation at InnoTrans 2024.

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