

Press Release

Schaeffler at InnoTrans 2024 (Hall 21, Booth 430)

## **Equal to extreme loads: Current-insulated bearings and hybrid cylindrical roller bearings**

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- Reliable traction motor bearings for improved cost-effectiveness
- Electrically insulated traction motor bearings prevent damage and save on costly repairs
- High-capacity cylindrical roller bearings with single-piece solid-brass cage available as standard

How can rail vehicles be made even more reliable and cost-effective to operate? Schaeffler has developed an answer to this question – in the form of exceptionally reliable traction motor bearings that prevent damage and avoid costly repairs and downtime.

A key way to improve reliability is to use current-insulated rolling bearings featuring the Insutect A ceramic coating. In rail vehicles, the operation of electric motors can cause unwanted electric currents in wheelsets, gearboxes and traction motors. This can damage raceways and rolling elements and cause lubricants to break down, resulting ultimately in premature and unexpected component failures. All of which translates into higher maintenance and repair costs, not to mention the added expense of machine downtime. Schaeffler offers a cost-effective and reliable solution to this problem with its electrically insulated bearings. These ceramic-coated bearings and hybrid bearings with ceramic rolling elements reduce maintenance costs and increase machine availability.

New solutions are needed to meet constantly growing demands and loads on machine components. That's why the Schaeffler innovations on show at InnoTrans also include high-capacity cylindrical roller bearings for traction-motors, featuring the new single-part "MP" solid brass cage. Compared with the "M1" two-piece, riveted solid brass cage, this new cage offers higher strength under stresses caused by vibrations and shocks, even at higher rotational speeds. The new cage design also simplifies bearing reconditioning because the rollers can be removed without damaging the cage. The benefits to customers include optimized operational reliability, longer service life, and reduced lifecycle costs and total cost of ownership (TCO). The longer service life also improves rail operators' carbon footprint.

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Schaeffler Group – We pioneer motion The Schaeffler Group has been driving forward groundbreaking inventions and developments in the field of motion technology for over 75 years. With innovative technologies, products, and services for electric mobility, CO<sub>2</sub>-efficient drives, chassis solutions, Industry 4.0, digitalization, and renewable energies, the company is a reliable partner for making motion more efficient, intelligent, and sustainable – over the entire life cycle. The Motion Technology Company manufactures high-precision components and systems for drive train and chassis applications as well as rolling and plain bearing solutions for a large number of industrial applications. The Schaeffler Group generated sales of EUR 16.3 billion in 2023. With around 84,000 employees, Schaeffler is one of the world's largest family-owned companies and one of Germany's most innovative companies.

Cylindrical roller bearing for traction motors, featuring Insutect A coating on the outer ring Image: Schaeffler

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Hybrid cylindrical roller bearing for traction motors, featuring the new "MP" single-piece solid brass cage Image: Schaeffler

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