

Press Release

Schaeffler at bauma 2025 (Hall A6, Booth 103)

Schaeffler is driving electrification and sustainability in the construction equipment industry

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- Schaeffler will showcase its entire product range for construction equipment – from rolling bearings to Ewellix linear actuators, sensors, and electric motors
- Significant energy savings through low-friction rolling bearings in the drive train
- Modular and scalable Ewellix electromechanical linear actuators as an alternative to hydraulic cylinders
- Highly efficient and ready for volume production: 800 V electric motor series

At bauma 2025 in Munich, Schaeffler will highlight how technological innovations and optimizations contribute to making the construction equipment industry more sustainable and efficient. In addition to the electrification of drives and operating functions, the Motion Technology Company also relies on the consistent use of low-friction rolling bearings and sensors. The objective is to further increase the efficiency of construction equipment and reduce TCO (total cost of ownership).

Electrification – one of the keys to decarbonization

Schaeffler's initiatives for the construction equipment industry are focused on the electrification of construction equipment. Patrick Scherr, Global Sector Lead Offroad in the Bearings & Industrial Solutions division at Schaeffler, on the business unit's goals: "We want to provide our customers with products and technologies that make motion smarter, cleaner, and safer. With our innovative and comprehensive product portfolio, we are a future-oriented supplier for construction equipment manufacturers."

High-performance electric motors for off-road applications

Schaeffler's portfolio of electric motors covers all common voltage ranges up to 800 V. Schaeffler offers electric drives with a maximum continuous power output of 300 kW designed specifically for the construction equipment sector. The drives are extremely efficient with high power densities, making them a key enabler for the transition to electric mobility and a significant contributor to the reduction of CO₂ emissions.

A highlight at the Schaeffler booth in Munich will be electric motors with a maximum speed of 10,500 rpm and a continuous power output of 219 kW. The

oil-cooled motors offer an exceptionally high efficiency rate of > 97% over a wide speed range and have been specially developed for heavy-duty applications.

Precisely controllable and efficient: Ewellix electromechanical linear actuators

Schaeffler offers modular, highly efficient electromechanical linear actuators for both operating functions and the automated operation of flaps and engine hoods. The series cover nominal forces from 1.5 to 150 kN and travel ranges from 300 to 2,000 mm and are designed for small excavators, wheel loaders, and mobile work platforms, among other applications. Precise control, synchronous movement of several cylinders, and energy recovery can be realized. They also offer lower TCO over the service life of a construction machine due to their very long maintenance intervals.

Contributing to global sustainability with low-friction rolling bearings

Low-friction rolling bearings from Schaeffler already offer the potential for energy savings and a reduction in TCO. Among these are tapered roller bearings with optimized rib contact and a further improved raceway surface structure.

Significant savings can be achieved with optimized high-performance bearings in hydraulic motors and pumps in wheel loaders, for example. Extrapolated to 1,000 construction machines with eight hours of operating time, the annual savings potential is around 26,000 MWh, which corresponds to the average annual energy consumption of more than 6,500 three-person households.

For further information on Schaeffler's product and service portfolio for the sector Offroad, please visit [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.

The new oil-cooled 800 V heavy-duty electric motors are available in three installation lengths and power levels. Image: Schaeffler

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Flexibly adaptable to any drive application: modular electromechanical Ewellix linear actuators Image: Schaeffler

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Reducing friction with the help of optimized high-performance bearings Image: Schaeffler

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Patrick Scherr, Global Sector Lead Offroad in the Bearings & Industrial Solutions division of Schaeffler Image Schaeffler

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