

Press Release

Schaeffler at WindEnergy Hamburg 2026 (Hall B5, Booth 333)

Innovative and reliable: Schaeffler solutions increase efficiency in wind energy applications

SCHWEINFURT, 2026-08-18.

- Product solutions and best-in-class engineering from Schaeffler increase reliability, efficiency, and service lifetime of wind turbines
- Closed Loop Engineering integrates development, testing and validation as well as field monitoring and simulation, enabling continuous improvement
- Strong global production footprint secures availability and delivery reliability for customers in every region

Schaeffler supports the global expansion of wind energy with technologies designed for maximum reliability, high power density, and sustainable operation. At WindEnergy Hamburg in Germany, the Motion Technology Company highlights its strong position in the global wind power bearing market and presents a broad portfolio of components, system solutions and services tailored to customer needs across the entire value chain.

Wind energy is one of the key technologies driving the energy transition. As a trusted technology partner, Schaeffler understands the needs of its customers in the wind industry and develops solutions together with them to support the reliable and efficient operation of wind turbines. "As wind turbines continue to grow in size and power, reliability is crucial. What matters is not the next record-breaking machine, but excellence in innovation, technology, manufacturing and logistics – capabilities that drive sustainable economic success and enable our customers to succeed," says Bernd Endres, Vice President Business Unit Large Roller Bearings & Sector Wind at Schaeffler.

System optimization through advanced simulation, validation, and globally leading test facilities

Schaeffler positions itself as a strategic development partner in the wind industry and uses Closed Loop Engineering to support customers beyond bearing solutions for onshore and offshore applications.

Working in close partnership with turbine and gearbox manufacturers, the company supports wind turbine development through state-of-the art system simulation, realistic test-bench testing, and field measurement campaigns, to validate products and systems.

In 2025, Schaeffler commissioned a high-performance test rig for rotor bearings in Lindø, Denmark, strengthening its role as a system partner for the wind power industry. Bearings can be tested in their original size and surrounding structure, including lubrication and sealing – even for systems in the range of more than 20 MW.

An industry-wide unique global footprint ensures availability

More than a decade ago, Schaeffler introduced the global Wind Power Standard (WPOS) for products and processes to ensure consistent quality standards for wind bearings.

“We support our partners along the entire value chain – from the first product sketch through development and production to maintenance during operation,” says Bernd Endres, adding: “We are a wind turbine bearing supplier with a truly global footprint. This unique characteristic ensures global availability for customers while securing shorter delivery and response times in every market worldwide, at the same time considering regional specifics and local proximity to our customers.”

Enabling reliable systems with high power density

The increasing demands on modern wind turbines require a high power density in the gearbox. Parallel-shaft gear stages transmit high loads with precision and reliability. Schaeffler’s robust bearing solutions in X-life quality for spur gear stages ensure efficient operation – even under changing wind and load conditions.

To make rotor bearings of new multi-megawatt turbines as compact as possible, adjusted bearing arrangements are increasingly being used. Beyond the bearings itself, Schaeffler offers the “Premesy” preload measurement system, which helps ensure that the correct preload is maintained during assembly and operation. This results in far greater reliability in the operation of large wind turbines.

Higher efficiency for the entire powertrain: Generator bearings on display

The G-series deep groove ball bearings for generator applications are designed to meet the requirements of generator OEMs. Instead of a machined brass cage, the G-series uses a steel cage. This results in less friction while offering an improved relubrication capability and increased grease capacity within the bearing, thus leading to higher machine availability. The bearings are also available in current-insulating variants: either as hybrid bearings or with an aluminum oxide coating.

Optimized bearing solutions for increased wind turbine service life

Also on display at WindEnergy Hamburg: Schaeffler’s Arcanol LOAD400 and LOAD460 greases tailored for the main bearings of wind turbines: These

bearings experience high loads, low temperatures and long service intervals, so reliable lubrication is essential. Arcanol greases provide strong protection against wear, corrosion and moisture, help reduce grease consumption, and are tested to Schaeffler's highest quality standards. Schaeffler's experienced application engineers support customers in selecting the right Arcanol product for the complex tribological interaction between grease and rolling bearing, ensuring efficient and robust turbine operation even under harsh conditions.

If you are interested in meeting our experts at WindEnergy Hamburg 2026 (September 22 to 25), visit us in Hall B5, Booth 333.

For further information on Schaeffler's wind energy solutions, please click here:
<https://medias.schaeffler.de/en/wind>

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.

Modern wind turbines have increasing demands that require high power density in the gearbox. Schaeffler's robust solutions in X-life quality for spur gear stages ensure efficient operation. (Photo: Schaeffler)

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Schaeffler's award-winning "Premesy" preload measurement system ensures correct preload during assembly and operation. (Photo: Schaeffler)

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The G-series deep groove ball bearings for generator applications with steel cage are also available in current-insulating variants (hybrid bearing or with aluminum oxide coating). (Photo: Schaeffler)

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