

Press Release

Schaeffler at Agritechnica 2025 (Hall 15, Booth 15E13)

Highly efficient electric motors for traction drives and auxiliary units in agriculture

SCHWEINFURT, 2025-10-29.

- Modular 800 V electric motor series as traction drive and generator suitable for many types of vehicles and applications
- Cost-effective motor production with automated coil manufacturing
- Innovative wave winding technology ensures high power density

With an extensive product portfolio, the motion technology company Schaeffler is presenting itself at Agritechnica 2025 as a future-oriented systems supplier for agricultural machinery. Schaeffler's heavy-duty electric motor platform was designed for a wide application spectrum of vehicles. Schaeffler's electric motors can be used not only as fully electric traction drives, but also as generators in hybrid drives or even as a drive for an electric PTO. Schaeffler has end-to-end expertise in the production of technically demanding electric drives including controllers and power electronics.

Modular platform

The 800 V heavy-duty platform consists of three oil-cooled motors, each developing 112 kW, 207 kW, and 220 kW continuous output. The only difference is the length of the active parts while the A- and B-sides of the motors are each identical. Schaeffler adopts the innovative 'wave winding technology' for the winding of the stator. This flat-wire wave winding makes for a very high copper filling ratio in the motor and results in a high-power density. This particular characteristic gives rise to a very compact motor that is optimized for continuous output.

Through the integration of Vitesco Technologies as a provider of controllers and software, Schaeffler now has extensive, end-to-end expertise in the manufacture of technically complicated electric drives. All manufacturing technologies come from a single source.

Superlative efficiency in minimal space

Due to their design, the heavy-duty electric motors achieve maximum efficiency of over 97 percent in a speed range from 3,000 to 8,000 rpm. With an overall length of 151, 206, and 261 mm with a uniform outside diameter of around 239 mm (laminated core diameter) or 280 mm (including screw connection), the motors take up minimal space.

At Agritechnica in Hanover, Schaeffler will be demonstrating a complete electric axle with integrated heavy-duty electric motor.

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.

Heavy-duty electric motor from Schaeffler: extremely compact and with efficiency of over 97 percent in a speed range of 3,000 to 8,000 rpm. Image: Schaeffler

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With wave winding technology and highly automated manufacturing, electric motors can be produced particularly economically with maximum efficiency. Picture: Schaeffler

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