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Press Release

New special tool from Schaeffler: E-Axle Repair Tool enables professional and safe repair of electric motors

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- The Schaeffler E-Axle Repair Tool enables safe and contact-free replacement of rotor and stator
- Save costs and conserve resources through targeted repair instead of complete replacement of electric motors
- Garages benefit from new business opportunities in the field of e-mobility

Schaeffler Vehicle Lifetime Solutions introduces the E-Axle Repair Tool, a specialized device that makes it possible to repair electric powertrains. The new tool enables precise, non-contact disassembly and reassembly of rotors and stators. Instead of replacing entire motors at high cost, targeted repairs can now be performed – saving resources and supporting a sustainable circular economy. Vehicle owners benefit from a cost-effective alternative to full motor replacement.

“Repair instead of replace: that requires the right specialized tools. As a technology pioneer, we are setting the standards,” says Stephan Niese, Director Global Product Management ePowertrain at Schaeffler Vehicle Lifetime Solutions. “This new tool opens the door to the world of electric motor repair – and to the future of the e-powertrain. We’re making e-mobility more sustainable, economical, and repairable.”

Efficient, safe, and sustainable repair instead of replacement

Thanks to the tool’s high rigidity and mechanical precision, as well as its universal adaptability to various types of electric motors, it can be used flexibly for motor disassembly and reassembly. Its robust construction ensures safe and well-guided disassembly, maintaining the necessary radial clearance even under strong magnetic forces. With pressing forces of up to 10,000 Newton, even tightly bonded seals can be released and new bearings pressed in – without damaging components.

“Precise guidance during rotor removal is essential to prevent contact between components. Any abrasion left inside the motor could lead to damage,” explains Stephan Niese.

The tool also offers ergonomic handling, with unrestricted access from three open working sides.

Ready for garages specializing in e-motor repair

The E-Axle Repair Tool is suitable for all garages focusing on electric motor repair and looking to tap into new business opportunities. It is now available and compatible with all existing Schaeffler repair solutions and axle systems, including the E-Axle RepSystem-G and E-Axle RepSystem-M.



The new E-Axle Repair Tool from Schaeffler enables professional and safe repair of electric motors. Photo: Schaeffler

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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 80 years. With innovative technologies, products, and services for electric mobility, 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. With around 110,000 employees and more than 250 locations in 55 countries, Schaeffler is one of the world's largest family-owned companies and ranks among Germany's most innovative organizations.

The new E-Axle Repair Tool from Schaeffler enables professional and safe repair of electric motors. Photo: Schaeffler

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The new special tool enables precise, contact-free disassembly and assembly of the rotor and stator. Photo: Schaeffler

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