

Press and IR Release

From e-cargo bikes to e-shuttles – With Schaeffler, electromobility is becoming a present-day reality

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- Electrification and automation present exciting growth opportunities for Schaeffler
- 500 million euros to be invested in new and expanded electric motor production capacity worldwide by 2026
- Self-driving electric shuttle from planned Schaeffler and VDL Groep cooperation unveiled at IAA show (Hall B3, Booths B23 and B40)

Schaeffler is doing well commercially from its highly diversified position in the electromobility market, offering solutions for everything from e-cargo bikes to electric aircraft, and technologies ranging all the way from electric motors to thermal management. In 2022, the company's E-Mobility business division secured series-production orders valued at five billion euros, taking to 16 billion euros the cumulative value of orders won by the division since its establishment in 2018. "The key to our success here is our profound understanding of both complete systems and the individual components that go into them. Taken together, that's a very large market for us," said Schaeffler AG CEO Klaus Rosenfeld.

Schaeffler is presenting its latest innovations for the future of mobility at this year's IAA Mobility show in Munich, with highlights including new drive technologies, improved chassis systems, and ingenious technical solutions for reducing friction. In [a world-first](#), Schaeffler and VDL Groep are presenting a demonstrator model of a self-driving electric shuttle designed for public transport. The two companies plan to develop and produce the vehicle jointly, with Schaeffler contributing its strengths in drive and chassis technology.

Major investment in e-mobility production capacity worldwide

Schaeffler has key strengths in passenger car electrification, particularly in electric motors, which are integral components of all electric axles and hybrid modules. The company makes a wide range of motors for both the premium segment and the mass market. Its offering here includes asynchronous motors and permanent-magnet synchronous motors, as well as axial-flux motors for sports cars. Schaeffler also develops and makes magnet-free electric motors – known as externally excited synchronous machines. "This year alone we are launching a total of seven e-motor projects for our customers. That shows our products are hitting the mark," said CEO Automotive Technologies Matthias Zink.

No one type of motor can handle all power classes and applications – which is why Schaeffler has a diverse, modular approach to electric motor development. “To produce this diverse range as cost-effectively as possible, we develop the electric motors and their production processes simultaneously,” Zink said. “In doing so, we are playing to our core strengths in industrialization.” At its location in Bühl, Schaeffler has a world-unique piloting facility where it tests cutting-edge manufacturing processes in preparation for rolling them out to its factories worldwide. This process innovation pipeline will see the company invest over 500 million euros in new and expanded production capacity worldwide by 2026. This is the secret to Schaeffler’s ability to industrialize climate-friendly drive technologies rapidly and – crucially – cost-effectively.

Schaeffler clocking up series-production startups

Electromobility and automated driving are areas in which Schaeffler is clocking up a growing number of series-production startups for its innovative technologies. For example, the [company's rear-wheel steering system](#) has just gone into production in a big-name automaker’s new electric SUV. This series-production startup, a first for this product, will be followed by six more in the next few years.

Schaeffler is also bringing its highly integrated [thermal management module](#) for electric cars onto the market this year. With this innovation, EVs, in particular, benefit from Schaeffler’s expertise in the precision management of heating and cooling. The company’s thermal management solutions improve battery performance and life and allow all components to operate within their optimal temperature range. Further series production startups are scheduled for this integrated thermal management solution in 2024.

In 2023, Schaeffler likewise saw its innovative [Free Drive](#) pedal generator for electric cargo bikes go into fleet-scale production. As the core component of a new chainless drive system, Free Drive reduces maintenance and wear and opens the way to completely new bicycle architectures.

Schaeffler is also bringing its [electric wheel hubs](#) into series production in 2023 – for three manufacturers of municipal works vehicles at once. Back in 2022, Schaeffler launched its eRocker system – an electromechanically switchable finger follower system for variable valve control. Combined with electric cam phasers, this system reduces CO2 emissions in hybrid vehicles by about ten percent. And for 2025, the company has announced the series startup of its silicon carbide-based 800-V power electronics.

Visit Schaeffler at the 2023 IAA Mobility show in Munich: At this year’s IAA Mobility show at the Munich Exhibition Center, Schaeffler is exhibiting a whole range of new technologies for sustainable, efficient and comfortable mobility.

These include solutions for inner-city goods delivery using e-cargo bikes, a new type of steering system, high-efficiency electric and hydrogen drives, new mobility concepts, and more.

Schaeffler press conference: Monday, September 4, 2023, 11:00 a.m. to 11:20 a.m. (CEST): Klaus Rosenfeld, CEO of Schaeffler AG, and Matthias Zink, CEO Automotive Technologies at Schaeffler AG, will address the media at the Schaeffler showcase at Booth B40 in Hall B3 and online via live stream.

Schaeffler at the IAA Conference:

- **Wednesday, September 6, 2023, from 4:00 p.m. to 4:45 p.m.,** Main Stage, Hall A1. Session: "Towards a Sustainable Automotive Value Chain – Ambitions, Challenges & Collaboration." Speakers include Matthias Zink, CEO Automotive Technologies, Schaeffler AG.
- **Thursday, September 7, 2023, from 3:00 p.m. to 3:45 p.m.,** Visionary Clubhouse, Hall A2. Session: "Here to innovate: revolution needs cooperation! Disruptive thinking, new technologies, new vehicle concepts – partnerships as enablers for innovation and change". Speakers include Ralf Busse, mocci | CIP MOBILITY GmbH; Kersten Heineke, McKinsey Center for Future Mobility; Dennis Müller, Enchilada Franchise AG; and Claus-Dieter Schilling, Schaeffler.

Schaeffler and mocci are also teaming up for the **IAA Experience** at the IAA Summit in Hall A3. There, on the Cycling & Micromobility Course, visitors will be able to test-ride mocci e-cargo bikes featuring drive technology by Schaeffler. The IAA Experience is open from 9:00 a.m. to 6:00 p.m. daily from September 4 to 8.

Forward-looking statements and projections

Certain statements in this press release are forward-looking statements. By their nature, forward-looking statements involve a number of risks, uncertainties and assumptions that could cause actual results or events to differ materially from those expressed or implied by the forward-looking statements. These risks, uncertainties and assumptions could adversely affect the outcome and financial consequences of the plans and events described herein. No one undertakes any obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise. You should not place any undue reliance on forward-looking statements which speak only as of the date of this press release. Statements contained in this press release regarding past trends or events should not be taken as representation that such trends or events will continue in the future. The cautionary statements set out above should be considered in connection with any subsequent written or oral forward-looking statements that Schaeffler, or persons acting on its behalf, may issue.

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, CO₂-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 83,400 employees, Schaeffler is one of the world's largest family-owned companies and one of Germany's most innovative companies.

Schaeffler plans to invest over 500 million euros in new and expanded production capacity for electric motors worldwide by 2026. Photo: Schaeffler

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This new mechatronic rear-wheel steering system by Schaeffler recently celebrated its series startup in an electric SUV made by a leading vehicle manufacturer. Photo: Schaeffler (Daniel Karmann)

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The new integrated thermal management module by Schaeffler will go into series production by the end of 2023. Further series production startups are in the pipeline. Photo: Schaeffler (Dominik Obertreis)

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