

Press and IR Release

IAA Mobility 2021

Schaeffler and Mobileye to Industrialize Self-Driving Shuttles

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- Schaeffler and Mobileye are advancing the industrialization of autonomous vehicles
- The collaboration pairs the engineering and industrialization expertise in the drivetrain and chassis fields from Schaeffler with Mobileye's longstanding know-how and leadership in driver assistance and autonomous driving systems
- Self-driving, highly flexible and customizable vehicle platform will be available from 2023

The automotive and industrial supplier Schaeffler and Mobileye, an Intel Company and leading provider of automated driving solutions, have agreed on a long-term cooperation. "Rapid regulatory and technological change, increasing urbanization and growing social awareness of mobility are increasing the need for alternative, novel concepts such as autonomous people or logistics movers," says Matthias Zink, CEO Automotive Technologies at Schaeffler AG. "They play a crucial role in sustainable mobility and are a future field in our Roadmap 2025. With the partnership with Mobileye, we want to develop autonomous shuttles to series production."

The rolling chassis from Schaeffler, a modular platform for new mobility concepts, is combined with the Mobileye Drive™ self-driving system. The goal: to develop a new, flexible platform for self-driving shuttles and other vehicle products at full automation level 4 and to offer customers worldwide solutions for Mobility-as-a-Service (MaaS) and Transportation-as-a-Service (TaaS). "Mobileye Drive™ is a versatile, scalable solution that enables any vehicle type to become self-driving. The new and innovative Schaeffler rolling chassis vehicle platform equipped with Mobileye Drive will enable broad deployment of autonomous shuttles and other driverless transportation solutions starting in the next couple of years," says Johann Jungwirth, Vice President of Mobility-as-a-Service at Mobileye.

Autonomous transport solutions from 2023

By combining Mobileye's AV technology with Schaeffler's rolling chassis, both companies can offer an autonomous, highly flexible and adaptable vehicle

platform that meets automotive safety standards with the necessary redundancies and thus enables the rapid scaling of autonomous transport solutions from 2023. Mobility service providers and transportation of goods companies will thus pave the way for the introduction of autonomous shuttles economically viable, as operating times and efficiency can be significantly increased.

The Rolling Chassis from Schaeffler is a flexible, scalable platform for new, driverless mobility solutions for the transport of people or goods or for special applications such as mobile charging solutions or pop-up stores on wheels. The modular platform shows the wide range of technologies from Schaeffler and offers a flexible architecture: Regarding steering and drive, a wide variety of variants can be implemented depending on customer requirements – from a simple drivetrain via an e-axis and central steering to the use of four "Schaeffler Corner Modules". The corner modules, which each allow a steering angle of up to 90 degrees, have been further developed in the direction of series production and scalability. They include the wheel hub motor, the wheel suspension including air suspension, which makes it possible to lower the vehicle for entry, the actuator for the electromechanical steering and a brake.

The Mobileye Drive™ self-driving system is a turnkey AV solution that delivers safety via two core concepts: Mobileye's formal Responsibility-Sensitive Safety model for the safety of the system's decision-making, and a perception system featuring True Redundancy™ whereby two independent subsystems (cameras and radars+lidars) combine to enable robust perception. The self-driving system can also be deployed without geographical limitation thanks to Mobileye's Road Experience Management™ AV mapping technology through which a proprietary, crowdsourced AV map of the global road network is created and then continuously and automatically updated using data gathered from mass-market advanced driver-assistance systems.

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 Rolling Chassis from Schaeffler is a flexible, scalable platform for new, driverless mobility solutions

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