

Press release

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Back to the future: MAHLE makes combustion technologies fit for e-mobility

- MAHLE is one of top three suppliers of automotive actuators worldwide
- Annual production expected to rise from 2.5 million units today to 6 million by 2025
- Member of the MAHLE Management Board, Wilhelm Emperhoff: “Actuators are an example of the successful targeted transfer of conventional product expertise from the world of combustion engines to e-mobility”

With an annual production of 2.5 million units, MAHLE is currently one of the world’s three largest manufacturers of mechatronic actuators for automotive applications. Actuators convert electrical energy into mechanical movement. In electric vehicles, they are used to control the transmission and the air conditioning system, for example. MAHLE is successfully expanding this product group in line with e-mobility requirements and thus consistently driving forward the Group’s technological transformation. The company plans to increase the production of actuators to as many as six million units per year by 2025.



MAHLE actuators are indispensable in electric vehicles too.

“MAHLE actuators are an excellent example of the successful targeted transfer of conventional product expertise from the world of combustion engines to e-mobility,” says Wilhelm Emperhoff, Member of the Management Board of the MAHLE Group with responsibility for the Electronics and Mechatronics business unit. “In this way, we’re opening up numerous new business segments.”

Thanks to its experience in the mass production of actuators for turbochargers, MAHLE is able to supply its new assembly groups for electric vehicles in proven high quality and on excellent terms.

One application of actuators from MAHLE is to lock the transmission of electric and hybrid vehicles when park mode is engaged. The newest members of the actuator family are electric expansion valves for use in the thermal management of electric vehicles. When actuated, they open to allow a refrigerant to flow through the system and regulate the temperature of the battery or power electronics. This keeps the sensitive components in the desired temperature range and protects them from damage.

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About MAHLE

MAHLE is a leading international development partner and supplier to the automotive industry. The technology group is committed to playing an active role in transforming the mobility of the future by further optimizing the combustion engine, driving forward the use of alternative fuels, and laying the foundation for the worldwide introduction of e-mobility and other alternative drives, such as fuel cells. The Group's product portfolio addresses all the crucial aspects of the powertrain and air conditioning technology.

In 2019, MAHLE generated sales of approximately EUR 12.0 billion and is represented in over 30 countries with more than 77,000 employees in 160 production locations and 16 major research and development centers (last revised: 2019-12-31).