

**New MAHLE business segment: control and power electronics**

- Systems with integrated control in product portfolio
- Highlights from newest MAHLE business segment exhibited for first time in Asia at TMS2017

Tokyo, October 2017 – MAHLE presented innovative technologies for control and power electronics for the first time at IAA Cars 2017 and will for the first time in Asia at TMS2017. The group's newest product division enables MAHLE to supply, for example, the complete traction system with integrated control from a single source.

**Comprehensive portfolio for e-mobility**

The product portfolio of MAHLE Nagares S.A., newly acquired by the group in 2017, comprises control and power electronics for electric auxiliary components and thermal management systems, as well as power converters for e-mobility solutions. In conjunction with MAHLE's existing business segments, product developments will include integrated powertrain solutions for hybrid and electric vehicles as well as battery-charging technologies.

“Our innovations, from our new business segment which were demonstrated at last month's IAA 2017, demonstrate a perfect interplay between moving and electronic components, as well as software,” says Wolf-Henning Scheider, Chairman of the MAHLE Management Board and CEO. Among other products, MAHLE will showcase control electronics for high-voltage heaters, which ensure the safe and highly efficient heating of the interior and batteries of electric vehicles. The AC/DC on-board charging unit allows for fast, reliable, and flexible charging of electric vehicles— independently of the power grid. Further highlights among the electronics exhibits at the trade fair include electronic control elements for thermal management systems. These ensure the

extremely efficient regulation of air conditioning and the temperature control of components.

The MEET demonstrator vehicle, which made its debut at IAA2017, includes a highly integrated drive unit, which combines motor and electronics in one housing. This reduces costs and package and is only possible by combining the competences in electronics, electric motor, and thermal management.

### **Growth for Mechatronics operating line**

The business segments of the Spanish company Nagares, which MAHLE acquired in early 2017, fit in well with the MAHLE Mechatronics division. Since 2016, MAHLE has pooled all its electrics and electronics activities here. The operating line develops and produces electric motors as well as electric drive and mechatronics systems. These technologies are primarily used in passenger cars, commercial vehicles, and in off-highway applications. MAHLE therefore makes a crucial contribution toward making transportation more sustainable, fostering e-mobility and energy efficiency, and significantly reducing air pollution from vehicles.

### **About MAHLE**

MAHLE is a leading international development partner and supplier to the automotive industry as well as a pioneer for the mobility of the future. The MAHLE Group is committed to making transportation more efficient, more environmentally friendly, and more comfortable by continuously optimizing the combustion engine, driving forward the use of alternative fuels, and laying the foundation for the worldwide introduction of e-mobility. The group's product portfolio addresses all the crucial issues relating to the powertrain and air conditioning technology—both for drives with combustion engines and for e-mobility. MAHLE products are fitted in at least every second vehicle worldwide. Components and

systems from MAHLE are also used off the road—in stationary applications, for mobile machinery, rail transport, as well as marine applications.

In 2016, the group generated sales of approximately EUR 12.3 billion with about 77,000 employees and is represented in 34 countries with 170 production locations. At 16 major development centers in Germany, Great Britain, Luxembourg, Spain, Slovenia, the USA, Brazil, Japan, China, and India, 6,000 development engineers and technicians are working on innovative solutions for the mobility of the future.

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