PRESSRELEASE

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Solutions for tomorrow's urban mobility: MAHLE at the EVS30

- MEET—highly efficient vehicle concept for urban mobility
- Efficient heating and cooling—thermal management solutions that pave the way for e-mobility
- Range extender for greater cruising range

Stuttgart, October 06, 2017 – At this year's Electric Vehicle Symposium (EVS), MAHLE is showcasing its range of solutions for e-mobility, including the MEET (MAHLE Efficient Electric Transport) vehicle concept. The industry meeting point for international e-mobility experts from industry, research, and politics takes place at Messe Stuttgart in Germany from October 9 to 11, 2017.

What does e-mobility look like today and in the future? MAHLE will use its solutions and products for e-mobility to answer this question at the EVS30. Besides thermal management solutions for electric vehicles and a range extender, MAHLE will be presenting its MEET concept vehicle, which has already received much positive feedback at this year's IAA in Frankfurt/Germany.

Zippy, efficient, comfortable

MEET is a highly efficient 48-volt vehicle concept for mobility in the city. It impressively demonstrates how maximum efficiency and economy can be combined with driving pleasure and comfort.

With MEET, MAHLE has brought together various energy-saving powertrain and thermal management technologies to boost efficiency and increase the vehicle's cruising range—by up to 50 percent in winter. As a result, MEET can be on the road for seven days without needing to visit a charging station.

MEET's innovative user interface concept allows the occupants to control a wide range of functions easily and intuitively—including with contact-free, gesture-based control. Personalized comfort settings and cabin climate preconditioning via a smartphone app during charging, for example, are also possible. The user interface concept exploits the comprehensive expertise of the MAHLE subsidiary BHTC.

"We have implemented the full range of our company's expertise in our MEET demonstrator vehicle—from the efficient electric motor and power electronics to charging technology and precise thermal management both in the cabin and the battery," says Dr. Otmar Scharrer, Vice President Corporate Research and Advanced Engineering and responsible for the development of the MEET vehicle concept.

Thermal management solutions from MAHLE contribute to acceptance of e-mobility

In addition to MEET, MAHLE is presenting its thermal management solutions, which cover interior temperature control as well as thermal management of the drive components. The precise regulation of the occurring heat flows is the foundation for the performance, cruising range, and service life of electric vehicles. The solutions from MAHLE therefore create the basic conditions for the acceptance of battery-powered e-mobility.

MAHLE range extender—for greater cruising range in passenger cars with battery-powered electric powertrains

Another of the MAHLE highlights at the EVS30 is the MAHLE range extender. The range extender functions as a generator used solely to charge the battery in electric vehicles. The advantage of this is that the motor can be kept compact and simple, yet remains highly efficient due to its operation at optimum speed points. In passenger cars with battery-powered electric powertrains, the range extender allows the vehicle's cruising range to be extended—to such an extent that it is comparable with that of vehicles with conventional drives.

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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