Press Release

Stuttgart, 29. November 2022

MAHLE successful with e-compressors

- Numerous series orders for electrification of passenger cars and commercial vehicles
- Total order volume of 1.4 billion euro
- The most recently presented e-compressor with 18 kW is currently the most powerful electric A/C compressor on the market
- E-compressors are at the heart of thermal management and crucial for service life, charging speed and the cruising range of the battery
- MAHLE CEO Arnd Franz: “MAHLE will continue to expand its role as a complete system provider in air conditioning for electric vehicles.”

MAHLE is successfully establishing itself as a supplier for e-mobility. One bestseller in this area is the electric A/C compressor, for which the technology group from Stuttgart has already secured numerous series orders in the passenger car and commercial vehicle sectors. The total order volume is approximately 1.4 billion euros. Most recently, MAHLE introduced the most powerful e-compressor currently available on the market with a peak power of 18 kW. E-compressors are the heart of thermal management in electric vehicles. The key component is important for the temperature control of the e-drive and thus crucial for the service life, charging speed and cruising range of the battery. In addition, it ensures pleasant passenger comfort. “MAHLE will continue to expand its role as a complete system supplier for air conditioning in electric vehicles,” said Arnd Franz, Chairman of the Management Board and CEO of the MAHLE Group.

With its electric A/C compressor, MAHLE is a pioneer in high-voltage technology, i.e. voltage levels above 400 volts, and large compressor displacements. These characteristics enable, for example, ultra-fast charging, which is so important for modern electric vehicles. MAHLE currently offers its high-voltage compressor in voltage ranges up to 900 volts and displacements up to 57 ccm^3. Its compact design means that it can be used in all vehicle classes, from passenger cars to heavy-duty commercial vehicles. The extremely small installation space requirements are made possible by the patented refrigerant cooling of the compressor motor and electronics.

One of the biggest challenges with electric battery-powered vehicles is also cabin acoustics. Here, passengers find the smallest vibrations and the slightest noise developments disturbing. The noise-optimized high-voltage compressor from MAHLE effectively causes just slightest vibrations. The result is very smooth running and best acoustics.

In addition to e-compressors for e-mobility, MAHLE also develops and produces electric actuators, auxiliary components, engine accessories, auxiliary aggregates, the electronics and software, and the entire thermal management system. E-mobility and thermal management are among the technology group's strategic fields. Between 2022 and 2026, more than 20 electrified vehicle platforms from leading passenger car and commercial vehicle manufacturers will be launched on the market that rely on MAHLE technology and products. The supplier is thus fully on course for transformation. MAHLE already generates over 60 percent of its sales independently of the passenger car combustion engine. This should increase to 75 percent by 2030.

With 18 kW of power, the MAHLE E-compressor is currently the most high-output electric A/C compressor on the market.

MAHLE CEO Arnd Franz with two MAHLE products for e-mobility: the e-compressor (left) and the brand new SCT electric motor.

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About MAHLE

MAHLE is a leading international development partner and supplier to the automotive industry with customers in both passenger car and commercial vehicle sectors. Founded in 1920, the technology group is working on the climate-neutral mobility of tomorrow, with a focus on the strategic areas of e-mobility and thermal management as well as further technology fields to reduce CO_2 emissions, such as fuel cells or highly efficient combustion engines that also run on e-fuels or hydrogen. MAHLE already generates over 60 percent of its sales independently of the passenger car combustion engine. This should increase to 75 percent by 2030. Today, one in every two vehicles globally is equipped with MAHLE components.

MAHLE generated sales of around EUR 11 billion in 2021. The company is represented with over 71,000 employees at 160 production locations and 12 major research and development centers in more than 30 countries. (status 31.12.2021)
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