

# Press release

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Stuttgart, 19 October 2023

## MAHLE receives CLEPA Award for SCT e-motor

- Recognition in the “Green” category for the cooling concept of the MAHLE electric motor with highest continuous output
- Technological leap with innovative oil cooling
- MAHLE CEO Arnd Franz: “MAHLE is continuing to grow with electrification.”

**The cooling concept of MAHLE SCT (Superior Continuous Torque) electric motors was awarded the Top Innovator Award 2023 from the European Association of Automotive Suppliers (CLEPA). The Stuttgart-based technology group won in the “Green” category. The new oil cooling ensures that the traction motor can operate at high output for an unlimited period of time. The performance of electric passenger cars and commercial vehicles increases significantly with this technological leap. Electrification is a future field within the MAHLE 2030+ group strategy.**

“This award is very special for us as it shows that we can set new technology benchmarks in e-mobility with our innovations,” said Arnd Franz, Chairman of the MAHLE Management Board, Chairman of the MAHLE Management Board and CEO, when accepting the award on Wednesday evening in Brussels. “MAHLE is continuing to grow with electrification.”

The SCT electric motor means MAHLE currently has the longest-lasting electric motor in the range. According to test results, it can permanently deliver between 93 and 100 percent of its peak power. Unique on the market, this groundbreaking high ratio between continuous output and peak power allows the use of electric vehicles of all kinds even under very demanding conditions. Classic examples are road gradients for electric trucks or the multiple accelerates of a battery electric passenger car. These scenarios are only covered to a limited extent by the electric motors available to date.

This is made possible by the innovative integrated oil cooling system, which not only makes the electric motor robust, but also allows the waste heat to be used in the vehicle’s overall system. The SCT electric motor is unrivalled in its small size, light weight and efficiency. At the same time, the extremely compact design results in an advantage in the costs of materials and weight—a lighter motor requires less

material during manufacture and increases the possible net load in commercial vehicles.

MAHLE recently presented a new technology kit for electric motors. This combines the strengths of the SCT electric motor with the advantages of the MCT (Magnet-free Contactless Transmitter) electric motor, which is also considered a benchmark. The “perfect motor” modular system combines permanently high peak power, contactless and thus wear-free power transmission, the elimination of rare earths, and the highest efficiency. “With this unique technology toolbox for electric motors, we can offer our customers customized electrification solutions for every vehicle class, application or even brand philosophy,” said Arnd Franz.

*Help for editors: The accompanying photo material for this press release can be found at <https://newsroom.mahle.com/press/de/>*

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MAHLE CEO Arnd Franz accepts the CLEPA Top Innovator Award 2023 for the SCT electric motor in person.



The SCT electric motor from MAHLE can operate indefinitely with high performance.



With the new technology kit for electric motors, MAHLE is combining the advantages of its benchmark products SCT and MCT electric motors for the first time.

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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<sub>2</sub> emissions, such as fuel cells or highly efficient, clean combustion engines that also run on synthetic fuels or hydrogen. Today, one in every two vehicles globally is equipped with MAHLE components.

MAHLE generated sales of more than EUR 12 billion in 2022. The company is represented with around 72,000 employees at 152 production locations and 12 major research and development centers in 30 countries. (Last revised: 12.31.2022)

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