

# Press release

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Stuttgart, June 14, 2022

## German Innovation Award for MAHLE

- German Design Council honors magnet-free electric motor from MAHLE
- “Winner” in the category E-Mobility Technologies
- Novel motor does not require rare earth elements and is wear-free
- High efficiency, multiple application options, and outstanding customer response

**The German Design Council has presented MAHLE with the German Innovation Award for its magnet-free electric motor. The technology group secured the “Winner” award in the category “Excellence in Business-to-Business E-Mobility Technologies”. This novel motor does not require rare earth elements and therefore offers great potential – not only from a geopolitical perspective but also with regard to the responsible use of nature and resources. A further central feature of the new motor is the contactless power transmission which allows for wear and maintenance-free operation. The efficiency is above 95 percent at almost all operating points – a level that previously has only been achieved by Formula E racing cars. This new development can be used in anything from subcompacts to commercial vehicles. The engine is generating considerable interest amongst customers – and MAHLE is currently holding talks with numerous major vehicle manufacturers.**



Award-winning innovation:  
MAHLE electric motor  
without rare earth elements

"Our magnet-free motor represents an innovative leap in e-mobility, as it provides several advantages that previously could not be combined in a product of this type," says Dr. Martin Berger, Vice President Corporate Research and Advanced Engineering at MAHLE. "The motor is a key component of our e-mobility strategy and the foundation for sustainable and resource-saving drive systems."

The jury based the award on the fact that the necessary transmission of electrical currents between the rotating and stationary parts inside the motor is contactless and therefore wear-free. According to the jury statement: "This

makes it not only maintenance-free and durable, but also particularly efficient and attractive for a wide range of applications. Another advantage is that the motor requires no rare earths, thus saving raw materials and making it even more sustainable. A highly exciting new development in the field of electromobility that is scalable across all vehicle classes and promises high market potential.”

The German Innovation Award honors innovative achievements that break new ground through their added value. Innovations that advance the industry through originality, implementation and effectiveness receive the “Winner” award. The jury is made up of independent, interdisciplinary experts from technology, digitization, science, associations and institutions.

## **Contacts in MAHLE Corporate Communications:**

Ingo Schnaitmann  
Corporate and Business Press Spokesperson  
Phone: +49 711 501-13185  
E-Mail: [ingo.schnaitmann@mahle.com](mailto:ingo.schnaitmann@mahle.com)

Christopher Rimmele  
Spokesperson Product, Technology & Aftermarket  
Phone: +49 711 501-12374  
E-mail: [christopher.rimmele@mahle.com](mailto:christopher.rimmele@mahle.com)

## **About MAHLE**

MAHLE is a leading international development partner and supplier to the automotive industry with customers in the passenger car and commercial vehicle sectors. The technology group, which was founded in 1920, is working on the climate-neutral mobility of tomorrow with a focus on electromobility and thermal management as well as other technology fields to reduce CO2 emissions. Currently the share of its sales earned independently from the internal combustion engine for passenger cars amounts to more than 60 percent and is to increase to 75 per cent by 2030. Half of all the vehicles in the world now contain MAHLE components.

In 2021, MAHLE generated sales of EUR 10.9 billion and is represented in over 30 countries with more than 71,000 employees in 160 production locations and 12 major research and development centers. (Last revised: 2021-12-31)  
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