

Does Schaeffler offer thermal management solutions for electric vehicles?

Schaeffler offers a comprehensive modular system with various thermal management solutions for electric vehicles. [Learn more.](#)

How does the Schaeffler thermal management module work?

Developed in close partnership with automobile manufacturers, the Schaeffler Thermal Management Module controls the engine temperature 100% in line with requirements. Depending on the operating status and driving situation, the coolant volume flow is controlled in several circuits close to the engine, which increases its efficiency.

How does a Schaeffler cooling system work?

The development of efficient and durable components for the cooling circuit is part of the corporate history of Schaeffler and its INA brand. The basic function of cooling systems is relatively simple: The water pump ensures the circulation of the coolant and thus removes the not required heat from the engine.

What is a Schaeffler electric motor?

In electric vehicles, these are usually the electric motor, the power electronics, the traction battery, and the vehicle interior in addition to the environment which is generally an important heat source or sink. The Schaeffler electric motor for the 4-in-1 drive system is specifically designed for everyday operating ranges.

Does Schaeffler use decentralized thermal management?

Schaeffler therefore uses decentralized thermal management in the powertrain. Smart single valves (SSV) are coordinated via a central control system. The first generation of the SSV has been used in a new generation of three and four-cylinder gasoline engines from BMW since 2017.

What does Schaeffler special machinery do?

Our battery team at Schaeffler Special Machinery deals with the manufacturing processes for battery module and battery pack production. Processes for insulating and tensioning, electrical contacting and welding as well as assembly processes for circuit boards are used in module production.

Moreover, their non-flammable nature enhances safety and reduces the risk of battery-related accidents, making them a promising solution for a more sustainable and secure energy future. Advantages. Extended mileage; Short ...

In hybrid and full-electric vehicles, the requirements for the thermal management system change. Therefore, components like auxiliary water pumps become even more relevant. Battery-, ...

Schaeffler is a pioneer in intelligent thermal management in vehicles. Thermal management is the unsung star

of the show when it comes to making vehicles even more efficient and ...

Find all relevant information about TruPower Starter Battery (AGM.LN3) in our Schaeffler Automotive Aftermarket catalog.

Schaeffler is also bringing its electric wheel hubs into series production in 2023 - for three manufacturers of municipal works vehicles at once. Back in 2022, Schaeffler launched its eRocker system - an ...

The more efficiently the thermal management system can utilize the individual temperature levels present in an electric vehicle, the greater the range with one battery charge.

In the field of cooling systems, Schaeffler with its product brand INA offers an impressive range of market-leading water pumps.

Our product lineup includes a battery management system that incorporates intelligent algorithms supported by the deep knowledge acquired by Schaeffler's battery cell team.

Schaeffler TruPower - PLATINUM TEC AGM battery offers advanced start-stop vehicles with superior power and performance. ... Release System. Gearbox. CVT. Torque Converter. E-Axle. Engine. Timing Drive. Front End Auxiliary Drive. Valve Train. Cooling. Chassis. Wheel Bearings. Steering and Suspension.

The 4in1 e-axle - a highly integrated and compact complete system for the powertrain Thermal management plays a central role in increasing the range of electric vehicles. In the 4in1 e-axle, ...

A particularly efficient thermal management system also ensures that a car travels further on one battery charge and charges faster. Another new development are electric beam axles for pick-up trucks. In the ...

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