

PRESS RELEASE

Efficient Exhaust Technology for Hydrogen Engines

- Exhaust-emission conversion for trucks with hydrogen engines
- Expertise transfer for new technology
- Premiere at the Hannover Messe 2022

Esslingen (Germany), 24 May 2022 – Purem by Eberspaecher has decades of experience in the development and production of exhaust-emission conversion systems for use in conventional internal combustion engines and hybrid drives. The experts are now applying this expertise to hydrogen engines. At the Hannover Messe, the company will be presenting its H₂-ICE exhaust system for the first time from May 30 to June 2 in Hall 13, Booth D71.

Hydrogen engines have great potential as a drive type with CO₂-neutral fuel, especially for heavy-load transport and in off-highway vehicles. With the **H₂-ICE exhaust system**, the exhaust gas specialists from the Eberspaecher Group are presenting the system specially designed for exhaust-gas aftertreatment in hydrogen engines. The H₂-ICE exhaust system ensures that the exhaust system will function properly, taking into account the specific requirements of this fuel. This is because even in hydrogen engines, exhaust gases such as nitrogen oxide and small amounts of particles and unburned hydrocarbons are produced from the engine oil pathway. In addition, the metered addition of the urea-water solution can cause particles to form. The applied technology is based on the well-established expertise of Purem by Eberspaecher in the development and production of exhaust-emission conversion systems for applications with fossil fuels, which are now being adapted to the CO₂-neutral fuel. Among other things, SCR technologies with urea-water solution are used as reducing agents for optimum nitrogen oxide conversion. The system is modular and can therefore be specifically adapted to the needs of individual

customers and applications.

The exhaust system for the Purem by Eberspaecher hydrogen engine is just one of the Eberspaecher Group's group-wide hydrogen activities. By adding fuel cell solutions to its product portfolio, Eberspaecher is pursuing the goal of shaping the clean and quiet mobility of the future. At its trade fair booth, Eberspaecher will also be presenting new components for use in stationary or industrial applications. These include air compressors from [Eberspaecher Vairex](#), as well as exhaust technology systems in [fuel cell applications](#).

Caption:

- *The H₂-ICE exhaust system for hydrogen engines from Purem by Eberspaecher.*

Global Media Contact:

Anja Kaufer
 Head of Corporate Communications
 Eberspächer Group
 Phone: +49 711 939-0250
press@eberspaecher.com

About Purem by Eberspaecher:

Purem by Eberspaecher is a subsidiary of the Esslingen-based Eberspaecher Group. To achieve clean and quiet mobility, around 7,000 employees develop and produce exhaust and acoustic systems for passenger cars, CVs, and off-road vehicles. The technologies make a significant contribution to meeting the strictest emission standards and noise guidelines. Its customer base includes the world's leading vehicle manufacturers. In 2020, the area within the group of companies generated revenue of around 4.4 billion euros.

About Eberspaecher:

With approximately 10,000 employees at 80 locations worldwide, the Eberspaecher Group is one of the automotive industry's leading system developers and suppliers. The family business, headquartered in Esslingen am Neckar, stands for innovative solutions in exhaust technology, automotive electronics and thermal management for a broad range of vehicle types. In combustion or hybrid engines and in e-mobility, the components and systems from Eberspaecher ensure greater comfort, higher safety and a clean environment. Eberspaecher is paving the way for future technologies such as mobile and stationary fuel cell applications, synthetic fuels as well as the use of hydrogen as an energy carrier. In 2020, the Group generated revenue of more than 4.9 billion euros.