

Media Release

Voith Turbo

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VEDS: Voith technology powers first H₂ truck to be serially produced in Germany

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- Milestone for mobility transition.
- Cooperation between two commercial vehicle specialists in close consultation with Voith.
- Voith's VEDS HD electrical drive concept provides 310 kW continuous power.

Heidenheim, Germany. Since the beginning of 2023, the HD version of the Voith Electrical Drive System (VEDS) has been an integral part of the first H₂ truck (FCEV) to be built in Germany: the Paul Hydrogen Power Truck (PH2P). The energy for the electrical drive is generated in a fuel cell. The truck was developed, built and optimized by Paul Nutzfahrzeuge, a European market leader in special-purpose trucks, and Pepper Motion, a specialist in the electrification of new and used commercial vehicles, in close consultation with Voith.

The PH2P truck was based on a 16 t model from Daimler's versatile Atego series. The result is a truck that offers optimum road performance and a range of 450 km. The PH2P truck series delivers impressive performance, efficiency and comfort. It is driven by a VEDS with 310 kW continuous power and 410 kW peak power. Moreover, the VEDS is the first electrical drive system to meet all requirements for automotive functional safety as per ISO 26262.

"Together with strong partners like Voith and Pepper Motion, we are striving to instigate a revolution in the hydrogen truck segment. By 2030, 45 percent of trucks are supposed to be carbon-neutral. Under these circumstances, you need people whose attitude is: Let's take a radical approach to getting this done," says Bernhard Wasner, CEO of Paul Nutzfahrzeuge. Andreas Hager, CEO of Pepper Motion, adds: "We are proud to be contributing to decarbonization through the development of our fuel cell drive system and consequently, to accelerating the mobility

transition. Partnerships like those with Voith and Paul Nutzfahrzeuge are the basis for this success.”

For Voith too, the PH2P is a milestone on the path to the mobility transition. “We are working flat out with strong partners like Paul Nutzfahrzeuge and Pepper Motion to drive the mobility transition forward,” emphasizes Manuel Calero, Vice President E-Mobility at Voith. “At the same time, we have written yet another chapter of the VEDS success story.”

Voith offers the VEDS as an electrical drive system including all basic components for various applications in the commercial vehicle segment. The system consists of an electric motor in two power classes – either Medium Duty (MD) or Heavy Duty (HD) –, a traction inverter, and a corresponding ECU. Thanks to its compact design, the VEDS does not require any additional installation space in chassis that are designed for combustion engines. The system therefore offers the perfect basis for retrofitting existing vehicles and sufficient flexibility for developing new vehicles. The concept supports battery systems from a wide range of manufacturers and – as is the case in the PH2P truck – can also get its energy from fuel cells.

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, paper, raw materials and transport & automotive. Founded in 1867, Voith today has around 21,000 employees and earns 4.9 billion euros in sales. It has locations in more than 60 countries and is one of Europe's major family-owned companies.

Voith Turbo, a Group Division of Voith, is a specialist for intelligent drive technology, systems and customized services. Voith offers the highest level of efficiency and reliability with its innovative and smart products. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology, rail and commercial vehicles rely on Voith's advanced technologies and digital solutions.

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The Voith Electrical Drive System (VEDS) is installed in the first H₂ truck (FCEV) built in Germany.



HD motor of the Voith Electrical Drive System (VEDS) with 310 kW continuous power and 410 kW peak power.

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