

Media Release

Voith Group

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2025-09-09

Voith and ELIN Motoren present E-Pack DS – the optimized electromechanical Drive System

- **Compact:** The E-Pack DS features a space-saving and lightweight design, making it up to 30 percent smaller and 10 percent lighter than conventional systems.
- **Economical:** With up to 1 percent higher efficiency and significantly reduced power losses, the system lowers total cost of ownership and achieves ROI typically within two to three years.
- **Robust:** The integrated, pre-tested all-in-one drive package eliminates sensitive bearings, reduces wear, and ensures long-term reliability with simplified maintenance.

HEIDENHEIM, GERMANY. Voith, in cooperation with ELIN Motoren, introduces the E-Pack DS, an advanced electromechanical drive system designed to meet the growing demand for efficient and space-saving electrification solutions in industrial applications.

The E-Pack DS is a fully integrated drive package that combines an electrical machine with a high-speed gearbox. It is optimized for use in compressors, pumps, and generators across sectors such as chemicals, petrochemicals, oil and gas, and power generation.

The E-Pack DS is engineered for environments with strict space and weight constraints. Its integrated design reduces the system footprint by up to 30 percent and weight by up to 10 percent compared to conventional parallel shaft gear units. The torsionally and laterally optimized drive system simplifies installation, reduces infrastructure requirements, and enables deployment in confined or mobile settings, such as offshore platforms or containerized systems.

The system's high efficiency of up to 1 percent higher than traditional gear units translates into significant energy savings. With fewer components, reduced power losses, and simplified engineering, the E-Pack DS lowers both capital and operating expenditures. Typical use cases demonstrate a

return on investment within two to three years, with long-term operational savings over the system's 20-to-30-year lifespan.

The E-Pack DS eliminates sensitive high-speed and low-speed bearings, reducing wear and increasing system reliability. All components are pre-assembled and tested as a single unit, ensuring seamless integration and consistent performance. The robust design supports extended service intervals, lower oil consumption, and improved thermal behavior, contributing to long-term durability and operational stability.

"Our collaboration with ELIN Motoren on the E-Pack DS underscores Voith's commitment to delivering high-performance, integrated drive systems. By combining mechanical precision with electrical engineering excellence, we're providing customers with a streamlined, harmonized solution that simplifies project execution and boosts overall efficiency," says Christian Honold, Senior Product Manager Turbo Gears & Diaphragm Couplings at Voith.

"With the E-Pack DS, we're offering a true one-stop solution that takes the complexity out of drivetrain integration," says Christian Fauland, Director Business Unit Power Plants at ELIN Motoren. "Together with Voith, we've engineered a fully aligned and pre-tested system that ensures reliability and reduces coordination efforts for our customers."

Voith will present the E-Pack DS at the Turbomachinery & Pump Symposia in Houston, taking place from September 16 to 18, 2025. Visitors are warmly invited to meet the team at booth 2529.

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E-Pack DS is a unique synchronized electromechanical drive package with a power transmission of up to 40 MW combining the benefits of the gearbox and motor in a single drivetrain.

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. Founded in 1867, Voith today has around 22,000 employees, sales of € 5.2 billion and locations in over 60 countries worldwide and thus is one of the larger family-owned companies in Europe.

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The Group Division Voith Turbo is part of the Voith Group and a specialist for intelligent drive technology, systems as well as tailor-made services. With its innovative and smart products, Voith offers highest efficiency and reliability. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology, rail and commercial vehicles rely on the advanced technologies and digital applications of Voith.

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About ELIN Motoren

ELIN Motoren produces electric motors and generators in small series and custom solutions for various industrial applications. ELIN Motoren specializes in markets such as marine, wind energy, plastics, tunnel and mining, oil and gas, plant construction, and power plants. The range of applications spans from low-voltage to medium-voltage and high-voltage machines. ELIN Motoren GmbH employs around 1,000 employees and has been part of the Voith Group since 2021.

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