

## Media Release

Voith Turbo

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### Sustainable T: Voith makes its fluid couplings more sustainable

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- Operates with rapidly biodegradable hydraulic fluids
- Fusible plugs with up to 70 percent less fusible alloy slug material and free of hazardous materials
- Frost protection enables use of water-operated couplings down to -40°C

**HEIDENHEIM, GERMANY.** With a focus on sustainability, Voith presents an advancement in its portfolio of constant-fill fluid couplings – Sustainable T.

Voith's hydrodynamic fluid couplings have been fixtures in many industries for decades. They are used wherever maximum reliability even in extreme environmental conditions is demanded of the equipment – often 24 hours a day. Thanks to their robust design, they provide for efficient production flows in mining systems, especially belt conveyors, crushers, impactors, separators and mixers. The couplings are also used in port facilities, construction machines and equipment, pumps and compressors, and a wide variety of other industrial drive systems. Wind turbine manufacturers have also already discovered the advantages that Voith technologies can offer them.

“With Sustainable T, we're already thinking about tomorrow today, because we manufacture extremely durable products that are perfectly tailored to our customers' long system service lives of 20 to 40 years,” explains Michael Hilka, Product Manager Hydrodynamic Couplings at Voith. “This means we pay close attention to the materials used in our components, utilizing only environmentally compatible materials wherever possible. We also hold intensive discussions with our suppliers and subsuppliers.

It is only a matter of time before the requirements for processing, disposal and recycling will be tightened further in the interests of better

environmental protection and health, according to Hilka. For customers, these innovations bring with them further advantages. Products that do not contain hazardous substances do not have to be handled or disposed of separately later. "As a result, we save our customers unnecessary concerns and unforeseen costs," Hilka emphasizes.

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## **70 percent less fusible alloy material**

One of the innovative functional improvements of Sustainable T is the design of the fusible plug, which Voith has optimized and patented. It provides savings of up to 70 percent compared with the competition in terms of the amount of fusible alloy material used. At the same time, the response behavior of the plug is improved, and Voith avoids using hazardous materials such as lead or cadmium in the slug. This is better for both people's health and the environment.

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The same applies to the use of new, more sustainable hydraulic fluids made possible through the advancements within the scope of Sustainable T. "Our constant-fill fluid couplings are made in such a way that customers can use selected hydraulic fluids that are readily biodegradable," Hilka points out. Voith therefore offers the option of using an alternative to the mineral oil that has been commonly used to date. "In this way, we make it possible to operate our couplings more sustainably without compromising on quality. Our customers can continue to rely on the familiar reliability and long service life of our fluid couplings," says Hilka.

## **Water operation at -40°C**

Other advancements in the water-operated couplings from Voith also contribute to sustainability. The couplings can now be operated with a mixture of water and selected antifreeze agents. The materials of the components can be selected for use down to -40°C if necessary. Until now, operators at locations at which temperatures could drop below freezing had to use mineral oil-filled couplings. This is a particular advantage for equipment operating in sensitive environments.

At the same time, the couplings retain all the usual advantages of Voith fluid couplings: They allow soft starting of the system, dampen the torsional vibrations in the drivetrain during operation, and protect the system from torque overload. This protects the entire system and forms the basis for many decades of service, thanks to the Voith couplings.

## **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, the company today has around 22,000 employees, sales of € 5.5 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

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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With Sustainable T, Voith enables the sustainable operation of constant-fill fluid couplings over the entire product life cycle.

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