

Media Release

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Page 1 of 3

Voith adds intelligence to torque limiting couplings and maximizes driveline performance with Dtect

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- Real-time monitoring and optimization of driveline performance
- Prevents potential problems and costly downtime
- Slippage monitoring to ensure maximum productivity

HUDIKSVALL, Sweden. Voith introduces Dtect, its intelligent monitoring system that provides real-time data of driveline performance and coupling status. Based on this, the operator can take actions to prevent potential problems and avoid unplanned downtime. By supporting better decision making, Dtect helps to increase productivity as well as significantly lower production and maintenance costs.

Dtect enables comprehensive monitoring of a driveline's torque limiting couplings. It was specifically designed to work with couplings, such as Voith's SmartSet, which serve to prevent machine damage in high value rotating equipment. It is also possible to upgrade existing couplings with the intelligent system.

Slippage monitoring for maximized uptime

Through continuous measurement of the slip angle, Dtect accurately identifies and monitors coupling slippage caused by high torque peaks in a driveline. This allows operators to take action if necessary, for example by adjusting the load of the driveline or by performing a controlled shutdown. The results include increased uptime, reduced maintenance and lower spare parts cost.

Data analysis ensures optimum performance

Dtect continuously collects driveline performance data that can be analyzed to ensure maximum productivity. It uses an updated quadruple sensor setup that increases the sensing range without affecting the

resolution of the measurement. By analyzing the slip behavior of the coupling, the operator can evaluate if the system is running at full capacity and if not, adjust the parameters accordingly. If necessary, proactive coupling maintenance can be performed to avoid costly downtime.

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Multi monitoring via a single interface

Dtect now makes it possible to monitor multiple couplings at the same time. It assesses each coupling individually and communicates the different parameters via a common interface. In this way, Dtect allows for simultaneous monitoring of all connected drivelines. Operators benefit from comprehensive real-time status information provided by one central system.

Page 2 of 3

Easy integration for platform-independent data monitoring

Equipped with Modbus TCP/IP communications, Dtect is easily integrated into established process information networks. Given its high flexibility, the system can be adopted with ease to other communication standards to meet a wide range of requirements.

HMI touch panel for outstanding ease-of-use

Dtect can be fitted with an integrated HMI touch panel. It offers highest usability, better control and status information at a glance. With visual warning indicators, the system assists operators in making decisions and taking the necessary actions in any given situation.

About the company

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, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 19,000 employees, sales of € 4.2 billion and locations in over 60 countries worldwide and is thus one of the large family-owned companies in Europe.

The Group Division Voith Turbo is part of the Voith Group and a specialist for intelligent drive solutions, systems as well as comprehensive services. Customers from highly diverse industries such as oil and gas, energy, rail and commercial vehicles, ship technology, mining and mechanical engineering rely on the advanced technologies and solutions-driven expertise of Voith.



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Page 3 of 3

Voith's Dtect enables real-time monitoring of torque limiting couplings and helps to increase overall driveline performance while reducing maintenance cost.

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