

Media Release

Voith Group

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Voith extends TurboBelt TPXL coupling family

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- Available from 160 kW to 2,500 kW power range
- Plug-and-play design enables seamless integration into existing systems
- Certification based on the latest ATEX directive

HEIDENHEIM, GERMANY. Voith presents the new extension for the TurboBelt TPXL series of fill-controlled couplings. Apart from the already established versions for 500 kW, 800 kW and 1,250 kW, the new portfolio includes 315 kW and 2,500 kW. The new versions are based on a combination of hydrodynamics and intelligent control technology to further optimize the performance spectrum.

The increasing demand for raw materials constantly raises the demands on conveying capacity in mining. With its proven hydrodynamic drive principle, the Voith TurboBelt TPXL family is specifically designed to meet these requirements. The new sizes TurboBelt 315 TPXL and TurboBelt 2500 TPXL open up an extended application spectrum.

High productivity and simple startup of belt conveyors

The robust and compact design of the coupling family allows its use in challenging environments such as open-cast mining. In addition, the plug-and-play design enables an easy integration into existing systems and drive trains. Due to the hydrodynamic operating principle, the TurboBelt TPXL ensures wear-free power transmission without mechanical connection. The exact torque control also increases the service life of the belt conveyors and ensures a continuous production process.

Intelligent operation and data-based diagnostic functions

For an optimized start-up process and reliable conveying behavior, the turbo coupling is combined with the digital control system TurboBelt DriveControl. The digital control system ensures a seamless integration of drives, belt conveyors and system components across the entire conveying process. The intelligent system optimizes the performance of the coupling

and the belt conveyor in any operating condition and enables active load distribution to several drives. With the application of Voith TurboBelt DriveControl and the existing remote access, it is possible to provide fast and easy technical assistance by means of a secure VPN connection. This results in reduced downtimes and lower maintenance costs.

ATEX-compliant drive solutions for belt conveyors

With the rise of new applications and new regulatory requirements, the latest TurboBelt TPXL couplings meet the highest standards for reliable and safe operation. The entire coupling family complies with all defined requirements for equipment used in explosive areas according to EU Directive 2014/34/EU (ATEX). The TurboBelt TPXL with the associated control unit TurboBelt DriveControl is designed for application in categories 2 and 3. Depending on the hazardous atmosphere, for example in an operating area with gas or dust environment, the hydraulic coupling is also available in different types of protection.

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, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 19,000 employees, sales of € 4.3 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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The Voith TurboBelt TPXL series is now available in sizes 315 and 2,500 kW and opens up an extended application portfolio.

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