

## Media Release

Voith Group

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### Voith successfully implements first BeltGenius ERIC system

2020-09-24

- The project around BeltGenius ERIC has reached the milestone where the system is used as an approved product.
- All targeted optimizations and key figures at the customer's site have been achieved and implemented in the system.

**CRAILSHEIM, GERMANY.** The mining industry is facing serious challenges, including declining ore concentrations, harsh weather conditions at remote locations and a growing interest in environmental protection. Voith is responding with new digitalized solutions to meet these challenges and to permanently increase mine productivity. Voith has been successfully running a first prototype of the digital twin BeltGenius ERIC at a renowned European mine operator for some time now.

The project has now reached a relevant milestone, with all the key figures announced at the beginning of the prototype run having been realized for the customer since the start of the project. BeltGenius ERIC analyzes and compares on the basis of standardized values how respective belt conveyor systems of a mine perform. By means of these key figures, Voith is able to identify physical deviations of the belt system, which serve as an early indicator of failures. In addition, the mine operator is given a starting point for determining how efficiently the respective system transports material. With the help of this key figure, conveyors can be compared with each other.

In this case, the newly defined data made it possible to take measures that led to improved uptime and reduced energy consumption. The prototype is used in a belt conveyor system with a capacity of 37,500 tons per hour and a speed of 7.5 meters per second. The belt of the system is 2.2 kilometers long and 2.7 meters wide and is completely digitally mapped by the system.

"BeltGenius ERIC has achieved all planned key figures at the customer's site," says Dr. Manfred Ziegler, Business Development Manager of Belt Conveyor Systems at Voith. "The exact image of the belt conveyor system

generated by the digital twin enables us to create further added value for our customers and thus maximize productivity.”

### **Next level of condition and efficiency monitoring**

Voith BeltGenius is the product family used for monitoring, benchmarking and optimizing belt conveyors and conveyor systems. BeltGenius ERIC is a digital twin of the conveyor belt. It processes sensor data in real time to calculate the Performance Indicator of the respective conveyor belt and to point out possibilities for performance improvement.

Find more information online: [www.voith.com/beltgenius](http://www.voith.com/beltgenius)

### **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.



With BeltGenius ERIC from Voith, plant downtimes are significantly reduced by running digital simulations of entire conveyor systems.

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