

Media Release

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Electra Mining Africa 2018: Changing the perspective of our customers

- **Tailor-made full-driveline solutions from a single source supplier**
- **New intelligent products for belt conveyor systems to boost efficiency and slash downtimes**
- **The remote collaboration service Vocus reduces downtimes and maintenance costs**

Johannesburg/Heidenheim: Voith will be presenting its renewed one-stop supplier approach for the mining industry at Electra Mining Africa from 10-14 September 2018 in Johannesburg, South Africa. The current fair edition will be characterised by many new developments launched to the South African market. The wide range of new services and products will be showcased at booth F6 in Hall 6 with the claim 'Changing your perspective'. The highlights of the fair will be the tailor-made full-driveline solutions, the intelligent coupling generation TurboBelt TPXL and the digital mining tools of the BeltGenius family, ALEX and ERIC. The Vocus remote collaboration service can be tested at the booth.

Tailor-made full-driveline solutions from a single source supplier

The power transmission and torque specialist has a long engineering tradition in the mining industry and its name is synonymous with reliability, robustness and efficiency. Rethinking the supplier approach was the next natural development step to be made to offer more value-added services to customers. Thus, Voith drive packages offer today not only lower acquisition costs and an easier commissioning, but also the lowest total cost of ownership in the industry.

In recent times the company has added not only new products but also many new services to the portfolio. The holistic concept starts with the engineering services for full-driveline solutions and the optimization of existing drivelines: Voith designs and engineers complete drive solutions

for mining based on their extensive knowledge, skills and technical expertise. Among other components, the offered drive packages include motor, gearbox, connecting coupling, base frame and a control unit. The determination of the most appropriate drive system for the operation bases on customers specific requirements.

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Engineering of entire drivelines is only the beginning of long-term partnerships with the customer. The tailor-made service packages include not only classical repair and maintenance but also preventive service. The technology group has put the focus now on efficiency with their newest developments, the digital mining tools of the BeltGenius family, ALEX and ERIC.

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The new coupling generation TurboBelt 500 TPXL offers intelligent driving for belt conveyor systems

Voith is launching its new TurboBelt 500 TPXL fluid coupling at Electra Mining Africa 2018. The fill-controlled coupling is the first model in the new TPXL family, which combines the advantages of the proven hydrodynamic drive principle with intelligent control technology. The integrated controller makes it possible to adapt the output torque of the coupling exactly to the start-up parameters of the belt conveyor system. In addition, Voith's engineers have been able to considerably reduce the dimensions of the new coupling. The TurboBelt 500 TPXL only requires half the volume of conventional coupling types for the same force transmission. In addition to the operational advantages, the new series of couplings also offers attractive procurement and operating costs.

The BeltGenius family, ALEX and ERIC, boosts efficiency and slashes system downtime

Belt skewing, excessive energy consumption and high spare part costs are the result when belt conveyors are not properly aligned. When excessive wear occurs, complete belt sections have to be replaced. BeltGenius ALEX detects any misalignment of the belt and helps you increase the lifetime of your mining equipment, leading to significant cost reductions.

BeltGenius ALEX is Voith's ALignment EXpert, detecting potentially wasteful issues in idler installations. Newly designed 3D sensors allow an extremely high accuracy level for a maximum benefit.

With BeltGenius ERIC (Efficiency & Reliability Intelligence Control) from Voith, you can boost efficiency and slash system downtime by evaluating digital simulations of entire conveyor systems during operation. The best

thing is that these models calculate the relevant forces with accuracy better than 99% - predicting failures before they happen.

Remote service solutions reduce downtimes and maintenance cost

With the remote service data helmet, Vocus, operators can easily receive equipment information from a centralized Voith specialist and exchange details via pictures, drawings and sketches. Since there is no need for the expert to be present at site, operators can save time and money by identifying issues via a digital application. The worker at site is therefore able to act like the extended arm of the expert and will be guided by him accordingly. Furthermore, the equipment can be used to assist repairs, measurements and individual trainings. The overall functionality of the helmet can be experienced live at the Voith booth for the first time.

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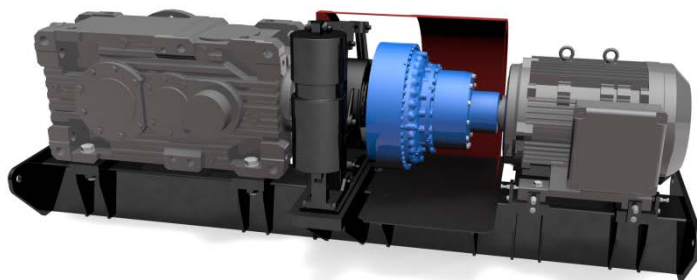
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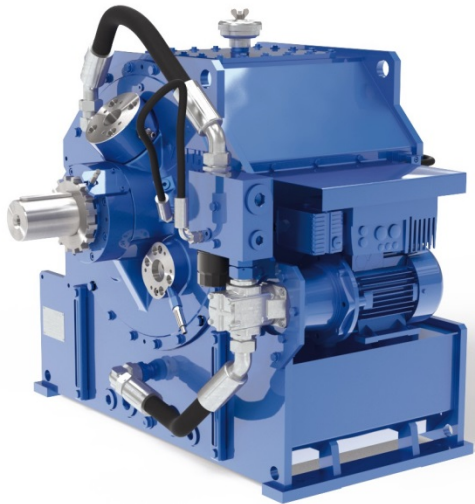
About the company

Voith Turbo, a Group Division of Voith, is a specialist for intelligent drive solutions, systems and 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 Turbo.

Voith is a global technology group. 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, Voith 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 largest family-owned companies in Europe.



Custom-made driveline for a belt conveyor



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The TurboBelt 500 TPXL offers intelligent driving for belt conveyor systems



BeltGenius ERIC identifies inefficient system sections or belt segments and reduces energy and operating costs



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The remote service data helmet, Vocus, reduces downtimes and maintenance costs

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