

## Media Release

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### **Voith at Electrify Europe 2018: Reliable and efficient product and service solutions for the power industry**

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- **Reliable driveline technology from Voith improves efficiency and reliability by using well-trusted approaches**
- **The BHS AeroMaXX technology for parallel-shaft gear units reduces power loss and oil consumption by up to 30 percent**
- **Unique service solutions help power plant operators to reduce downtimes and maintenance cost**

**Heidenheim/Vienna. Voith will be presenting innovative and reliable solutions for the power industry at Electrify Europe 2018 from June 19 to 21 in Vienna, Austria. Trends like digital transformation, renewable energies as well as efficiency in steam and gas based power generation will be discussed by the attendants and visitors. Voith is showcasing its wide range of products and services for power generation at booth A-S10 with the claim 'Smartening up your productivity to the next level'.**

#### **Reliable technology for more efficient drivelines**

The BHS AeroMaXX technology for parallel-shaft gear units enables operators to reduce power loss and oil consumption by up to 30 percent. It minimizes losses by separating lubrication and cooling while no additional accessories are needed due to its passive mechanical construction. Such losses usually appear at high-pitch line velocities of up to 200 meters per second when the oil swirls and squeezes into the gear mesh. The BHS AeroMaXX technology consisting of a special inner gearbox casing and optimized bearings is designed for easy retrofitting for existing gear units.

SmartSet torque limiting couplings help to protect drivelines from torque overloads. The coupling slips when the rated torque is exceeded and limits the torque between the generator and the turbine if a fault occurs. The special controlled slip feature of SmartSet enables the coupling only to

disconnect the drive in rare event of a driveline major failure. Optionally the SmartSet can be fitted with Voith's Coupling Monitoring System (CMS) that provides real-time status information and analyses for operators.

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The original Voith Hirth couplings can be used between gas turbine disks or as a connection between impeller and pinion shaft. They connect and position shafts, wheels, disks and cranks in many areas of mechanical engineering where highest precision is demanded. The Hirth couplings can be tailored to each drive system individually.

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### **Controlling speed with highest efficiency and reliability**

The VECO-Drive is a variable speed drive that combines the superior reliability of mechanical gears with the high efficiency of frequency-controlled servo motors. Thanks to the electro-mechanic superimposing principle the VECO-Drive increases compressor or pump drive efficiency up to 97 percent. Due to its modularity the VECO-Drive can be also configured individually for different application types, speed levels and explosion protection classes.

VoreconNX is a reliable planetary gear for compressors and pumps in steam applications increasing efficiency by up to eight percent. It helps the power industry to save both total costs of ownership and life cycle costs.

### **Remote service solutions reduce downtimes and maintenance cost**

With the Voith remote service data helmet, 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.

### **Actuators and control systems ensure an efficient, safe and reliable operation for turbomachinery**

Gas turbines, steam turbines and compressors achieve exceptional efficiency and operational reliability when using actuators, protection equipment and control systems from Voith. The SelCon self-contained actuator is a linear, electrohydraulic drive without external oil supply. It convinces due to its compact, cost-effective drive with a high force density.

The system integration is easy and commissioning can be realized quickly which is also ideal for retrofitting. The SelCon offers good dynamics and control loop performance with position control via a servo pump. Additionally it is equipped with an integrated fail-safe function.

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TurCon DTc is a compact and cost-effective steam turbine controller which ensures a highly reliable operation of power plants. This controller is “pre-engineered” with software and the operation of the user interface is intuitive. It suites to steam turbines of all power classes and allows simple, fast and cost-effective system integration with various communication interfaces. Furthermore we also focus on the topic how redundancy can provide reliability for power plants.

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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.



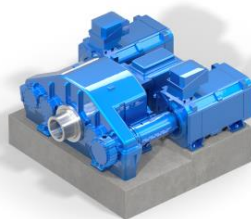
The BHS AeroMaXX technology for parallel-shaft gear units enables operators to reduce power loss and oil consumption.



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SmartSet torque limiting couplings help to protect drivelines from torque overloads and reduce downtimes.



The VEKO-Drive has a variable speed drive that increases drive efficiency up to 97 percent.

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