

Media Release

Voith Group

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Voith received first order for retrofit of AeroMaXX technology in the air separation industry in China

- The existing Voith parallel shaft gear unit will be upgraded with Voith AeroMaXX technology.
- It will help to significantly increase efficiency by decreasing power loss and oil consumption.
- Conducted simulations have shown significant energy savings for the customer, a global player headquartered in Europe.

SHANGHAI, China. Voith will retrofit a parallel shaft gear unit with the Voith AeroMaXX technology at an air separation plant in China. The respective turbo gear unit from Voith is currently in service as part of a steam turbine compressor driveline in northern China. The contract includes retrofitting the existing housing and bearings to reduce the power loss of the gearbox by up to 30 percent as well as subsequent recommissioning of the gearbox.

With the installation of AeroMaXX, the producer of technical gases will be able to significantly increase energy savings of its plant that delivers oxygen to a nearby methanol plant. According to upfront calculations, the AeroMaXX technology will lead to a reduction of approximately 190 kW per hour, which equals annual steam cost savings of an estimated € 100,000 and a coherent amortization time of around 1.5 years. Start of commissioning is expected for May 2020.

Reduction of power loss and oil consumption

AeroMaXX technology minimizes losses by separating lubrication and cooling, with no additional accessories needed due to its passive mechanical construction. Such losses usually appear at high pitch line velocities of up to 200 m/s when the oil swirls and squeezes into the gear mesh. The solution has a passive-mechanical character and requires no

additional accessories. Operators profit from identical design standards, unchanged overall operating behavior and maximum reliability.

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 € 4.2 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 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 inner housing and optimized sleeve bearings of the AeroMaXX technology significantly reduce power loss and oil consumption.

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