

## Press Release

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### **Voith BHS AeroMaXX for turbo parallel-shaft gears unveiled**

- **Voith BHS AeroMaXX increases the efficiency of turbo parallel-shaft gear units by up to 0.5%**
- **Oil consumption of the gear unit reduced by more than 30%**
- **The 36-month warranty is manufacturer-independent and includes retrofits**

Voith unveiled the new BHS AeroMaXX technology for turbo parallel-shaft gear units at Power-Gen Europe 2016 in Milan from 21 to 23 June. The inner housing and optimised sleeve bearings reduce power loss and oil consumption by 30% or more.

The solution has a passive-mechanical character and does not require any additional accessories. Operators profit from identical design standards, unchanged overall operating behaviour and maximum reliability. Voith emphasises this with a 36-month warranty period – in both new systems and retrofits. The technology is manufacturer-independent and available immediately.

Due to the high pitch line velocities of up to 200 m/s, oil swirling and oil squeezing in the gear mesh account for a substantial part of the power loss of high-speed turbo gear units. The BHS AeroMaXX technology reduces these losses by separating lubrication and cooling.

An inner housing in the direct vicinity of the gear set absorbs heat and dissipates it into the bottom area on the external surface on the inner housing via cooling oil. This means that a substantially smaller volume of oil is required for the actual lubrication of the teeth contact surfaces, while the swirling oil/air mixture itself is minimised.

In addition to the inner housing, the technology also includes new BHS EcoMax sleeve bearings on the pinion shaft. These hydrodynamic

bearings are optimised specifically for the application, and guarantee high energy efficiency along with significant oil savings.

By combining the inner housing and the specifically-designed bearings, BHS AeroMaXX increases the gear unit efficiency by up to 0.5%. At the same time, oil consumption is reduced by at least 30%. Since only passive mechanical elements are used, the improvements can be achieved without any additional accessories or components such as pumps or seals.

The overall operating behaviour, design standards and dimensions of the gear unit also are not affected by this technology. Related costs for a system operator are amortised by the energy savings alone within one to two years.

## **Voith Turbo**

Voith Turbo, a Group Division of Voith GmbH, is a specialist for intelligent drive solutions. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology, rail and commercial vehicles rely on advanced technologies from Voith Turbo.

## **About Voith Turbo**

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## **About the company**

Voith sets standards in the markets for energy, oil & gas, paper, raw materials, and transport & automotive. Founded in 1867, Voith employs more than 20 000 people, generates €4.3 billion in sales, operates in over 60 countries around the world and is one of the biggest family-owned companies in Europe.\*

\* Excluding the discontinued Group Division Voith Industrial Services.

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