

## Media Release

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### **DIWA NXT: Voith will showcase the newest development in transmission technology at IAA 2018**

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- **With the new DIWA NXT, the DIWA transmission remains the number one choice for city buses**
- **The new transmission also meets the needs of the inter-city and coach segment by providing an additional overdrive**
- **First vehicle measurements confirm passenger comfort and the simulation results regarding efficiency**

**Heidenheim, Germany. Voith stays on track with the development of its new DIWA NXT transmission for buses. Test bench and test track results have proven the predicted efficiency and reduction in emissions. The new transmission features a mild-hybrid system with an optional 48V central recuperation unit (CRU) and offers an optimal gear ratio through an additional overdrive gear for inter-city applications. A model of the new transmission will be displayed at the IAA Commercial Vehicles 2018 in Hanover, Germany, this September.**

Following the initial announcement at IAA 2016, Voith continued to work on the new DIWA NXT transmission. The DIWA NXT provides significant performance optimization through the separation of torque converter and retarder which provides both, improved traction and braking performance. It also offers an optimal gear ratio through an additional overdrive resulting in a wider transmission spread with higher flexibility in driveline design, making the DIWA NXT also applicable for inter-city buses and coaches.

The new transmission from Voith will have an optional mild-hybrid system. The central recuperation unit (CRU) is based on 48 V technology with a continuous power of 25 kW (peak power: 35 kW). It recuperates energy in downhill and deceleration phases and makes it available to the vehicle's electrical system via the battery and a DC/DC converter as well as for traction. The CRU is highly integrated into the flywheel housing between

the engine and the transmission and requires almost no additional installation space. In addition to that, the transmission is very easy, fast and user-friendly to maintain and service. Start of production for Voith's DIWA NXT is expected early 2021.

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Visitors will be able to see a first sample of the transmission as part of the overall theme "Drive New Ways" at IAA Commercial Vehicles 2018 at Voith booth A14 in hall 17.

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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.



DIWA NXT conventional transmission.



DIWA NXT transmission with central recuperation unit (CRU).

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