

To the Press

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Press Release

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Voith Goes Hybrid – More Value for the Environment

Fuel prices are rising, the climate change is a global issue and millions of people all over the world rely on public transportation each day! With more than 200,000 DIWA transmissions sold, Voith is a specialist in the development and application of automatic transmissions for city buses. We pride ourselves on making a valuable contribution to the mobility of passengers worldwide. With our specialized know-how Voith offers a hybrid transmission solution for economical and eco-friendly applications.

The Voith DIWAhybrid is based upon the proven technology of the DIWA automatic transmission supplemented by an efficient asynchronous motor. The parallel hybrid strength lies in its universal suitability. One of the core components that make this solution possible is an inverter especially developed by Voith for application in buses. Whatever the choice of energy storage, this inverter ensures a stable energy supply and complete energy management.

The first Voith DIWA transmission was released to the market in 1949. Since then, the transmission's power split principle continues to offer both operator and passengers maximum comfort, efficiency and economy and sets the standard for automatic transmissions in city bus applications.

In today's world public awareness is influenced by environmental issues and the responsibility towards the next generation. Voith, too, is making an active contribution – by developing products that reduce fuel consumption and emissions. Building upon our unique experience and the combined know-how in mechanics, electrics and electronics, Voith is able to offer a unique parallel hybrid solution.

The DIWAhybrid combines the proven features of today's DIWA automatic transmission with a low-loss asynchronous electric motor rated at 150 KW. The parallel hybrid transmission utilizes our well-known DIWA advantages, such as the power split principle in the starting range, the secondary retarder and the proven E 300 electronics with the diagnosis software ALADIN. Together these features, in combination with the electric motor and specialized energy storage system, create an efficient powertrain ideally suited for city bus operation.

During braking, the asynchronous motor turns into a generator and acts as a primary retarder, supplementing the DIWA secondary retarder. As a result, service brake life is extended and brake wear, with its associated emissions of fine dust particles, is reduced to a minimum.



DIWAhybrid – a parallel hybrid perfectly suitable for bus applications.

Voith Turbo, the specialist for hydrodynamic drive, coupling and braking systems for road, Voith sets standards worldwide for power transmission, Voith was founded in 1867. With approximately 37 000 employees, annual sales of 6 billion USD and over 270 locations worldwide, Voith is one of the largest family-owned companies in Europe. Voith is an official partner of the initiative "Germany – Land of Ideas."

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