

Press Release

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Voith at InnoTrans 2012: Experience How You Get Ahead.

September 2012

Under the motto "Experience how you get ahead", Voith will be presenting state-of-the-art components, systems and locomotives at InnoTrans – the drive technology of tomorrow. The focus is on reliability, easy maintenance, safety and economy. Among the highlights are the new six-cylinder inline diesel engine and the Galea vehicle head, designed for maximum operating speeds of 200 km/h.

The eye-catcher at the Voith exhibition stand is the new Galea vehicle head. It combines high safety and flexibility. Thanks to the low unit weight, operators use less energy. They also benefit from individual design options and easy assembly. Manufacturers get an easily adaptable vehicle head that complies with all safety norms. The cut-out, original-size model exhibited at InnoTrans allows a unique view into the interior of the collision-safe vehicle head.

With the help of a new app, Voith is now able to answer the question whether a rail vehicle should be fitted with a hydrodynamic or a hydro-mechanical transmission. Based on three "real" route profiles, the app, which is launched at InnoTrans, calculates the optimum transmission for the vehicle in question. In addition, it points out further savings potentials through the installation of an electric hybrid and the waste heat recovery system SteamTrac. An L 220 turbo transmission for special rail vehicles and a six-cylinder inline diesel engine with SteamTrac are also among the exhibits on the Voith stand.

Voith now also supplies electro-mechanical drives. The new trams in Helsinki are currently fitted with the latest drive components, ranging from high-voltage equipment, traction inverters, motor-gear unit and axles with wheels to the associated vehicle control. At InnoTrans, Voith shows the double traction inverter of the project. A specifically developed drive configurator demonstrates to visitors how important it is to ensure optimum adaptation of all components and which savings potentials are possible.

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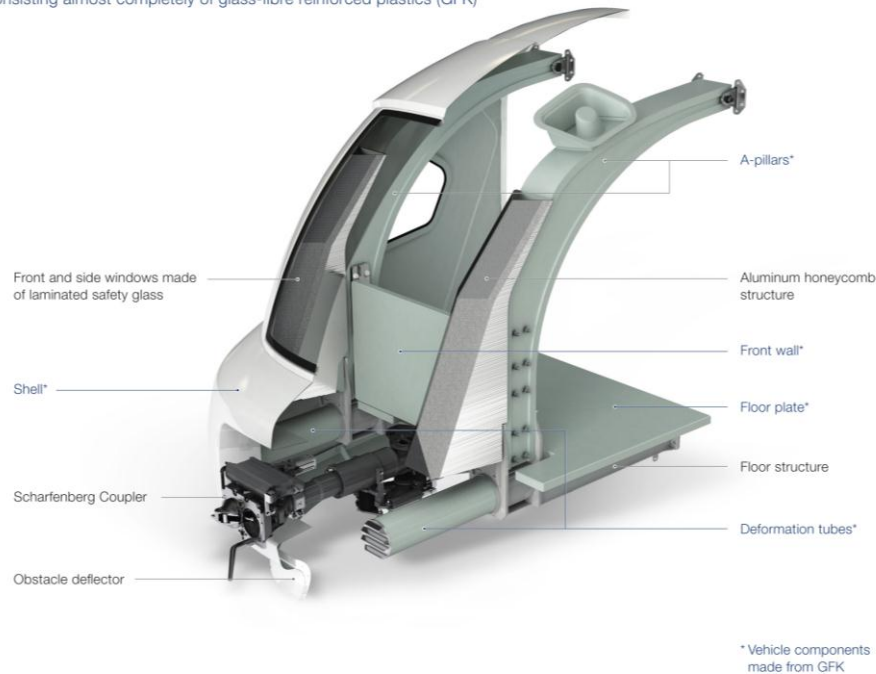
Another Voith exhibit is a monorail cooling system. All major traction elements, such as inverter and traction motor, are kept at the right temperature by the unit. Thanks to its new nano coating, the system is more dirt-repellent and extends maintenance intervals. How maintenance-friendly the system is can be seen live in a film.

As a transmission manufacturer, Voith can now also supply complete wheelsets from one single source with the company's new wheelset press. Vehicle manufacturers can thus shorten their production times. Vehicle safety is also increased - because Voith assumes full responsibility for every wheelset, including the tests of all components. The Voith exhibition stand will feature the complete wheelset for the Helsinki tram.

On the outside area of the show grounds, Voith is presenting the upgraded Gravita 15L BB shunting locomotive. It has an engine output of 1 800 kW and is thus suitable for heavy shunting service. Diesel-hydraulic Gravita locomotives are independent of overhead wires and external power supplies. The central driver's cabin of the Gravita and the low superstructures ensure optimum panoramic views for the locomotive driver.

Fibre composite vehicle head Galea

Consisting almost completely of glass-fibre reinforced plastics (GFK)



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Galea vehicle head



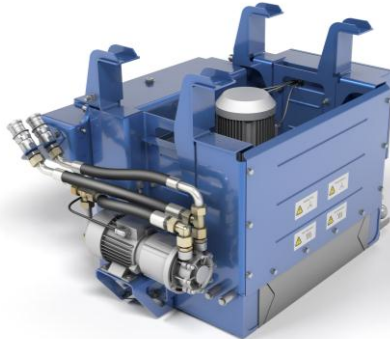
Complete Wheelset Helsinki



R6-Diesel Engine



Turbo Transmission



Cooling System for Monorails



SteamTrac Expander



Traction Converter

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Voith Turbo, the specialist for hydrodynamic drive, coupling and braking systems for road, rail and industrial applications, as well as for ship propulsion systems, is a Group Division of Voith GmbH.

Voith sets standards in the markets energy, oil & gas, paper, raw materials and transportation & automotive. Founded in 1867, Voith employs almost 40 000 people, generates €5.6 billion in sales, operates in about 50 countries around the world and is today one of the biggest family-owned companies in Europe.

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