

Press Release

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New Rail Vehicle Components from Voith at InnoTrans 2016: “Connecting Forces – Driving Innovation”

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- **New S111 turbo transmission for engine outputs of up to 280 kW**
- **Modernized SA3 coupler meets latest crash standard**
- **Rail service – advanced service concepts like OPRA**
- **System competence in front noses**
- **Powerful traction inverters from Voith**

Heidenheim, Germany: Voith will be present at InnoTrans 2016 in Hall 1.2, Stand 220, under the motto of “Connecting Forces - Driving Innovation”. Voith is further expanding its system competence with the RailPack family. In line with this, the RailPack 400 DE diesel-electric drive system will be on view at the fair stand in addition to the new S111 turbo transmission. Voith is also setting the switches to facilitate automated freight traffic with its modernized SA3 coupler.

Service Competence Center with New Service Range

The Voith Service Competence Center will present its new range of services at InnoTrans. Apart from maintenance, overhauls and repairs for locomotives and railcars, Voith also offers complete repainting services for vehicle fleets in its paint shop. The bogie workshop ensures the fast removal, overhaul and installation of bogies of all vehicle types. In addition, Voith is also performing an increasing amount of engineering services for its customers in its Service Competence Center - the most recent being the development of specific bodies for track building vehicles. The integrated life-cycle management system OPRA from Voith represents the pinnacle of advanced rail services, offering the opportunity to perform predictive maintenance tasks on rail vehicles which improve the availability, reliability and safety of the systems.

Advantages of Hydrodynamics

For its new S111 turbo transmission, Voith is counting on the advantages of hydrodynamics. It excels in particular with its stability, robustness, long service life and easy maintenance. The turbo transmission is designed for engine outputs of up to 280 kW and 1800 Nm. These also apply to the new turbo transmission developed for applications such as special rail vehicles, which has already been installed in a two-axle tender vehicle in China. Besides the S111, Voith will be presenting the SE 369 gear unit for high-speed trains. This component uses an aluminum construction that can save a tremendous amount of weight.

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RailPacks – Diesel-Driven or Hybrid

The most recent version of the RailPack is operating in a MU in China. An original-sized 400 DE RailPack, which can be driven by electric engines as well as a diesel engine, will be on view in Berlin as the representative of an entire Voith product family. The drive systems are distinguished by their robust technology and minimum maintenance expenditures. Long oil-change intervals guarantee consistently low operating costs for the operators.

System Competence in Front Noses

Voith proves its system competence with the front nose of the Stadler EC 250 high-speed train. It unifies the nose flaps into an intelligent coupling system with the use of operating gear. One of these front noses will be exhibited in Berlin.

Modernized SA3 Coupler Meets New Crash Standard

Voith will also be showing InnoTrans visitors their modernized SA3 coupler that meets the new DIN E 15227 crash standard. For locomotive operators, the further developed Voith SA3 coupler offers considerably more convenience. The new SA3 coupler accommodates pneumatic coupler, electric coupler as well as electro-pneumatic braking. An additional pneumatic system also makes automatic decoupling possible. The coupler has become the standard in Eastern Europe and thus simplifies cross-border freight traffic.

Intelligent Energy Transformation

Traction inverters efficiently transform the supplied electrical energy so that it is provided to the drive motors in a suitable manner. The integrated drive control system offers excellent control and optimum matching of the drive system components to one another, thereby positively impacting on safety, energy efficiency and lifetime. The significance of these electrical components will also be reflected at the InnoTrans, where Voith will be dedicating a separate area of its stand entirely to the topic of electrical propulsion.

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Voith Turbo, a Group Division of Voith GmbH, is the specialist for intelligent drive solutions and systems. 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.

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

*Excluding the discontinued Voith Industrial Services Group Division.



Caption 1: The Rail Service Competence Center in Kiel provides bogie overhauling, repainting and additional engineering services.

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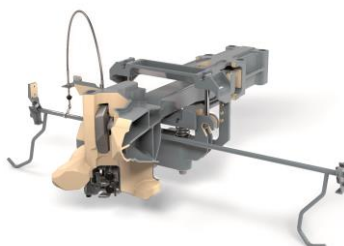
Caption 2: The S111 turbo transmission makes use of the advantages of hydrodynamics: stability, robustness, a long service life and easy maintenance.



Caption 3: RailPacks are compact drive systems – a life-size 400 DE RailPack will be on view at InnoTrans.



Caption 4: A front nose of the Stadler EC 250 will be shown at InnoTrans in Berlin.



Caption 5: The Voith SA3 coupler has been modernized and meets the new DIN E 15227 crash standard.



Caption 6: Efficient energy transformation for excellent control and optimum component matching – the Voith EmCom traction inverter.

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