

## Press Release

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### **Safe and Efficient – with Voith-Powerpacks to the 2014 FIFA World Cup in Brazil**

March 2013

**The railcar manufacturer Bom Sinal in Brazil relies on Voith drive systems. Since 2010 22 vehicles with Voith DIWAPack have been in service in the metropolises Fortaleza and Recife. In order to have more commuter trains ready for the 2014 Soccer World Cup, Bom Sinal has ordered 68 new DIWAPacks.**

From May 2013, Voith will deliver two DIWAPacks per month to Bom Sinal. The vehicle manufacturer based in Barbalha (Ceará) has once again decided in favor of Voith due to the reliability of the products and the trustful business relationship between the two companies. The two- and three-car vehicles of Bom Sinal will be used by a number of Brazilian operators. A two-car railcar from Bom Sinal can move up to 358 passengers. The three-car version can carry as many as 562 passengers.

The two vehicle types are each driven by two Voith DIWAPacks. Due to its high efficiency and inherent reliability, the DIWAPack is the ideal drive system for light railcars. In order to adapt it to rail applications, Voith has supplemented the proven DIWA 884.5 transmission by an integrated reversing gear. As a result, the positive characteristics of the DIWA transmission come into effect at all speeds and in both driving directions.

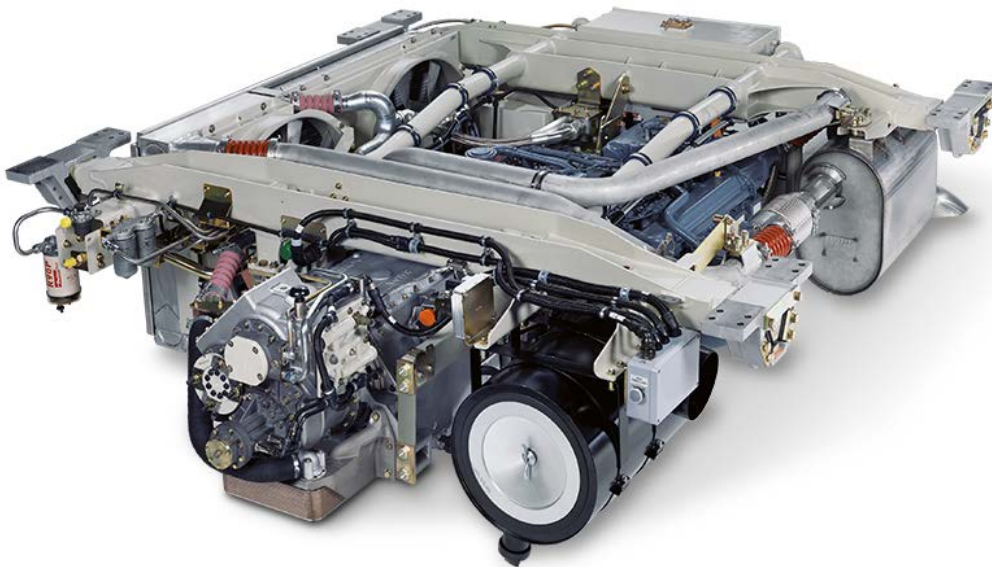
Apart from the DIWARail transmission, the DIWAPack consists of cardan shafts, an underfloor cooling system, the exhaust system, a synchronous generator and a hydrostatic system. A 6-cylinder MAN engine rated at

338 kW (460 HP) provides the necessary drive power and allows maximum speeds of 120 km/h. All components are combined into a drive system in a single carrier frame including all tubes and pipes. The Voith delivery scope also covers Scharfenberg semi-automatic couplers and gear units.

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The expansion of commuter routes in its megacities is very important for Brazil - and not only because the country hosts the 2014 Soccer World Cup. This is underlined by the fact that the first light railcars from Bom Sinal with Voith technology were commissioned in the presence of Brazil's President Dilma Rousseff.

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**Voith-Powerpack: DIWAPack**



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Bom Sinal Railcar

**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 more than 42,000 people, generates €5.7 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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