

Press Release

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2015-08-12

"Driven by Efficiency": Voith Presents Sustainable and Efficient Drive and Braking Systems at Busworld 2015

At this year's Busworld in Kortrijk Voith will present its product and service competency under the motto "Driven by Efficiency". At our booth 513 in Hall 5, we are showing the highly economical and sustainable DIWA.6 automatic transmission for city and long-distance buses, the multiple prize-winning Aquatarder SWR (Secondary Water Retarder) braking system, the telemetric system DIWA SmartNet and the air compressors.

DIWA.6: the Best Choice for City and Long-Distance Buses

The new DIWA.6 automatic transmission is Voith's response to the rising demand for clean and fuel-efficient vehicles, especially in the context of the Euro-6 requirements. Specifically developed for citybuses, DIWA automatic transmissions are the best prerequisite for economical operations.

Compared with its predecessor model, the DIWA.6 can save almost another five percent fuel. Apart from utilizing the topography-dependent gear-shifting program SensoTop, this is made possible by the need-based reduction of the operating pressure and an intelligent start-up management that avoids starting against the active service brake. With the optimized Automatic Neutral Shift (ANS) function the transmission can stay decoupled from the engine for longer, which also saves fuel. Numerous bus operators in Europe rely on the transmission in demanding inner city traffic.

Braking with Water – the Aquatarder SWR

At the center of the Voith exhibition appearance at the Busworld is also the Aquatarder SWR that is an energy-efficient, resource-sparing component for buses, coaches and trucks. The Voith Aquatarder SWR is the first secondary retarder to brake with water, using the cooling agent of the engine for the process. This means that it does not need an additional operating medium and is able to perform up to 90 percent of all vehicle

braking operations wear-free. In addition, it requires only half the installation space compared with its predecessor and is 35 kg lighter.

DIWA SmartNet: Easy and Efficient Driveline Monitoring

With the Voith-developed telemetric system DIWA SmartNet operators are always optimally informed about the condition of their drivelines. Due to high mileages, difficult climatic conditions and the demand for maximum vehicle availability, classic service and maintenance strategies soon reach their limits. Automated data recording and evaluation create a distinctive added value for operators: maintenance and service routines can therefore be planned much easier, and vehicle availability is increased. DIWA SmartNet is an integrated solution for monitoring the driveline and allows fast and direct access to operating data. With the new generation DIWA SmartNet 2.0, data for transmission diagnosis can now also be transmitted via WiFi, which allows significant cost savings compared to the mobile radio solution.

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Air Compressor Units for EURO-6 Engines

Voith air compressors shown on the exhibition stand are also suitable for the new EURO-6 engines. Produced with aluminum lightweight design, the two-stage compressors are a series feature of Daimler, MAN and Volvo coaches. Thanks to the two-stage principle, Voith air compressors save up to 1 liter of diesel per 100 kilometers. Since 2012 Voith has produced over 200,000 air compressors at its location Zschopau, Germany.



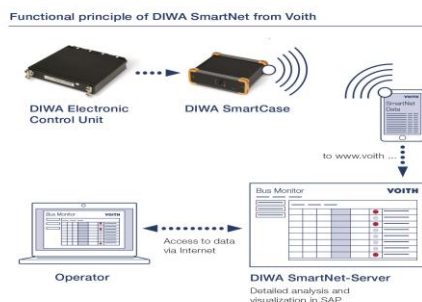
The Aquatarder SWR brakes with water



The DIWA.6 automatic transmission allows economical operation



The LP 490 air compressor contributes to saving fuel



The telemetric system DIWA SmartNet 2.0 regularly transfers and analyzes the operationa and service data of the DIWA transmission

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Voith Turbo, a Group Division of Voith GmbH, is a specialist for intelligent drive solutions. Customers from highly diverse industries such as oil and gas, energy, mining and metal processing, ship technology, rail and commercial vehicles rely on advanced technologies from Voith Turbo.

Voith sets standards in the markets energy, oil & gas, paper, raw materials and transportation & automotive. Founded in 1867, Voith employs almost 39 000 people, generates €5.3 billion in sales, operates in about 50 countries around the world and is today one of the largest family-owned companies in Europe.

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