

Voith Maxima[®] 40 CC – Crossing new frontiers in traction power

Voith Turbo's new locomotive – A breakthrough in diesel-hydraulic traction

Rather than just traction components, Voith Turbo now offers a complete locomotive for the first time. The Maxima 40 CC 6-axle diesel-hydraulic mainline locomotive is designed both for hauling heavy freight trains at speeds up to 120 km/h, and for high-speed passenger transit up to 160 km/h. By developing and manufacturing the Maxima locomotive at the newly founded Voith Turbo Lokomotivtechnik in Kiel, Germany, Voith Turbo demonstrates that diesel-hydraulic traction has a very competitive future in the high-performance sector as well.

It is an ongoing challenge these days for transport companies to safeguard their market shares in face of growing competition for freight transit worldwide. In particular the rail freight sector needs more cost-effective and innovative concepts, both with regard to operations logistics and traction technology.

The Maxima 40 CC is powered by the Voith Turbo LS 640 re turbo-split

transmission with up to 4,200 kW gearbox input. Based on the existing family of cost-effective hydrodynamic transmissions, this new system puts Voith Turbo in a completely new hydrodynamic drive performance class.

Imminent completion of the Voith Maxima 40 CC will provide operators with Europe's first catenary-independent locomotive in this performance class. It opens up more cost-effective

transport and operations possibilities not only by eliminating the need for locomotive changes between electrified segments and different power supply systems, but also thanks to its high traction rating and adhesion.

This innovative development, based on highly effective application of the Voith hydrodynamic drive concept, illustrates the enormous potential of this ideal rail traction technology.

The Voith Maxima 40 CC will debut in September this year at the Innotrans international rail engineering trade fair in Berlin.

Voith Turbo is a Voith Group division specializing in hydrodynamic drives, couplings and braking systems for road and rail, marine and industrial applications.





Voith Industrial Services

The industrial sector faces ever increasing pressure to develop innovations while keeping costs as low as possible. As a result, companies are forced to work more efficiently, economically and flexibly. In times like this, it is good to have a strong partner who can provide comprehensive services, allowing your company to focus on the essentials.

Voith Industrial Services offers you a unique combination of process and facility services from one source – with the two complementary competence areas, Process and Facility.

The Process competence area offers all services directly or closely linked to the production process: from planning, engineering, assembly and maintenance to the renovation and modernization of machines and systems.

The Facility competence area covers all location-related services: from overall facility management and the cleaning of technical systems to maintenance – across all industry sectors.

In order to provide the optimal service for your requirements, Voith Industrial Services relies on the combined power of strong brands. Voith and Hörmann are the specialists for process services, an area in which industry-specific know-how is essential. DIW and Premier have made names for themselves as experts for location-related facility services.

The comprehensive coverage of Facility and the clear industry orientation of Process enables Voith Industrial Services to offer all services you need for your production facilities and plant infrastructure – wherever you are in the world.

Voith Industrial Services, a group division of Voith AG, counts as one of the leading providers of technical services for the key industries. With more than 150 business locations worldwide and over 15,000 employees, it posts sales of about € 700 million in 2006.

Voith Siemens Hydro

Voith Siemens Hydro Power Generation has been awarded a contract by E.ON Wasserkraft for supplying equipment for the modernization of the Waldeck I pumped storage station. E.ON Wasserkraft is going to invest € 50 million in the hydro power project located in Germany's federal state of Hesse. The contract value for Voith Siemens Hydro runs up to € 24 million.

The overall technical concept – from structural to electro-mechanical design – was elaborated by Voith Siemens Hydro in close cooperation with Bilfinger Berger. While Bilfinger Berger will execute the civil works for the new complex Voith Siemens Hydro will be responsible for the supply of a new reversible pump turbine with 74 MW turbine output, motor-generator, shut-off valves, start-up converter, transformer and process control.

Voith Siemens Hydro Power Generation is a Group Division of Voith and – with a workforce of around 2,600 employees and sales of € 600 million in the past business year – it belongs to the worldwide leading companies for hydro power equipment.