

PRESS RELEASE

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InnoTrans 2016

Quiet and Emission-free: E-mobile Solutions for Shunting and Loading Operations

At InnoTrans in Berlin (September 20–23, 2016, Hall 23/Booth 305), Vollert – a specialist in cost-effective shunting and loading systems for connecting and secondary railway systems – will be focusing on mobile electrical shunting solutions. Current projects in Germany and Russia for Tegometall, Shell, and EuroChem confirm the increased demand, not only for autonomous battery-operated systems, but also for cable-fed systems.

The advantages of e-mobile systems are their cost-efficient operation without any exhaust gases, offering a significant reduction in noise levels and easier maintenance. For the Swiss Tegometall AG company, one of the worldwide leading manufacturer of loading equipment, shelving systems, and warehouse technology, these are good arguments in favor of a decision to purchase a BR 60 battery-operated shunting robot. With a starting traction force of 60 kN, the shunting robot transports freight trucks containing metal coils on a 2 km long route from the rail junction to the production buildings. Speeds of up to 7 km/h and the self-sufficient battery-powered operation facilitate a swift connection, despite the length of the route which traverses a road at a level crossing. The BR 60 is operated by means of a mobile radio controller. The first shunting robot delivered by Vollert entered service at Tegometall two years ago and the company is now also opting for this powerful solution at its facility in Krauchenwies, Germany.

“Electrically operated systems are ideal, especially where there are stringent requirements with regard to noise levels and exhaust fumes”, explains Jürgen Schiemer, Vice President Shunting Systems division at Vollert. “At Tegometall the production within the buildings is not adversely effected by exhaust fumes. In a further project for the Shell Rheinland

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refinery, protection of local residents was the primary concern: The specification for noise levels here is <48 dB(A)." Furthermore, in loading and unloading operation, electrical systems are particularly energy-efficient in view of the frequent stationary and idle periods. At the same time, the maintenance costs are significantly lower.

Cable-fed for loading and unloading operations

At the Shell Rheinland refinery in Wesseling, Germany, and also at EuroChem in Russia, all in all three KR 75 shunting robots with a motorized cable drum have recently entered service. Shell in Wesseling has a completely new on spot rail car loading system for transferring liquid hydrocarbons from Dipl.-Ing. Scherzer GmbH. The plant engineer specializes in the construction and implementation of systems for loading and unloading, as well as storing chemical and mineral oil products. Two Vollert shunting robots position the trucks with pinpoint accuracy on a weigh-bridge in a fully automated process. They are supplied with power via the cable drum and equipped with explosion-protection components to a height of 800 mm above top of rail.

Under the severest weather conditions, EuroChem in Russia is also using a new KR 75 e-mobile shunting robot at its subsidiary plant Phosphorit Industrial Group in Kingisepp for efficient loading procedures involving Ammophos fertilizers. A further order to supply shunting robots of the same type has been submitted for the loading of sulfuric acid. The systems have tractive power of 22 kW and can pull a total train weight of up to 1,500 metric tons. Each robot draws its energy from a drum-mounted retractable cable with a length of over 300 m.

About Vollert Anlagenbau GmbH

As a provider of innovation, Vollert has developed economical shunting systems for in-plant and connecting railway systems. Stationary, rope-mounted shunting systems from Vollert have been used for maneuvering railway carriages and trains ever since the 1950s. As a technology leader, Vollert also offers independently operating shunting systems (shunting robots), heavy-duty transfer carriages, and travelling platforms for reliable and efficient processes in refineries, mines, ports, steel and cement works, explosion protection areas, railway washing facilities, and maintenance centers. System solutions from Vollert are used in over 80 countries, with subsidiaries in Asia and South America further increasing sales activities in those parts of the world. The company employs some 250 personnel at its headquarters in Weinsberg.

www.vollert.de

Image material provided by Vollert

Picture 1



At Tegometall in Sauldorf, Germany, a Vollert battery-operated shunting robot has been in service for two years, performing shunting operations including the emission-free movement of rail freight trucks within production buildings.

Tegometall is now also opting for this powerful and emission-free solution at its Krauchenwies plant.

Picture 2



The Shell Rheinland refinery in Wesseling has a completely new loading system for transferring liquid hydrocarbons. This involves two e-mobile shunting robots from Vollert, which position the freight trucks quietly, and with pinpoint accuracy, on a weigh-bridge.

Video (YouTube)



Electric and efficient: On the Vollert YouTube channel a KR 75 can be seen loading tank cars.

www.youtube.com/vollertshunting

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http://www.sympra.de/downloads/Vollert/PI_Vollert_InnoTrans_2016.zip