

PRESS RELEASE

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Vollert develops large-scale painting plant for Liebherr mobile cranes

50 tons of explosion-protected parts painted while suspended

With a new painting plant, Liebherr is setting the standard in commercial vehicle construction. At the plant in Ehingen, parts from mobile and crawler cranes weighing up to 50 tons will be painted while suspended in mid-air. Vollert Anlagenbau from Weinsberg is developing the intralogistics for this. Wirtgen and SEW-EURODRIVE are just two of the companies also backing the new technology.

Vollert's first suspended painting system for loads of up to 20 tons was initially put into operation just a few months ago by Liebherr in Kirchdorf. Now comes the next step: In the Liebherr plant in Ehingen, Vollert is set to build the world's first double-track overhead plant for parts weighing up to 50 tons. The Weinsberg intralogistics specialist for heavy loads is putting its expertise in the precast concrete unit industry to good use and instead of single drives from transport units, firmly installed friction wheels will now be used. A total of 7 cabins will be available for the sand blasting, priming, painting and drying of the approx. 19-metre long, 4-metre wide and 5-metre high workpieces. Two 15-metre high loading and unloading manipulators, along with a distribution manipulator, will carry the parts which weigh several tons and see to the distribution between the individual stations. For a simple approach and departure, as well as a free operating range, the manipulators' mobile half-portal design, whose lifting units are designed to carry a weight of up to 60 tons, will see that the one-sided loads are balanced.

The stationary friction wheels are what distinguish the Vollert solution. They replace the more expensive explosion-protected drives on the single transport units; there is no need for a motor or a power supply in the painting and drying cabin. At the same time, the system is almost maintenance-free as the drive is not stained by the resulting paint mist. This is just one of the reasons why the Bruchsal-based company SEW-EURODRIVE is also using two Vollert machines which are controlled from a height for the manufacture of gears and motors with loads of 3.5 to 10 tons.

A further advantage of this solution is that bridging is possible even with extreme loads. Wirtgen GmbH from Windhagen, world market leaders for asphalt cold milling, plan to use the technology for the powder coating of heavy parts which weigh up to 30 tons. As the coating reaches oven temperatures of 220 °C the problem that often arises is that the oven

and transport steel constructions must be built separately to avoid heat and energy losses. However, the new intralogistic solution from Vollert makes the bridging for the entry and exit from the oven possible.

About Vollert Anlagenbau GmbH

As specialists for heavy loads and large parts, Vollert Anlagenbau GmbH develops turnkey intralogistic concepts for the aluminum and metal industry. As a general contractor and full-service provider, the service range encompasses state-of-the-art material flow, storage and packaging technology as a stand-alone solution or integrated into a larger logistics environment.

Whether fully automated mega-high bay systems for aluminum coils, intelligent material flow systems for the leading aluminum extrusion press manufacturers, the world's most efficient storage and retrieval machines for the storage of sheet metal plates, automatic crane systems for 50 tons and more or the most modern surface coating systems – Vollert is everywhere.

Vollert's plant and machine solutions are used in more than 80 countries worldwide. Its subsidiaries in Asia and South America also strengthen the sales activities. Vollert employs 250 people at its company headquarters in Weinsberg. **www.vollert.de**

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Image 1



Image 2



Image 3

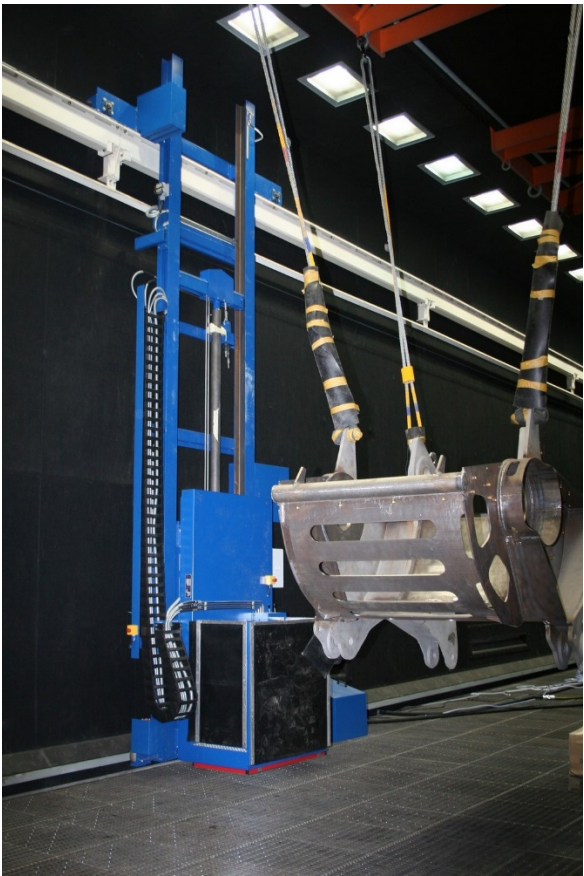


Image 3