

PRESS RELEASE

Weinsberg, 24 November 2008

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

Contact for the **Reader**:
Vollert Anlagenbau
GmbH + Co. KG
Stadtseestraße 12
74189 Weinsberg, Germany
Telephone: +49 7134/ 52 22 8
Telefax: +49 7134/ 52 20 5
info@vollert.de
www.vollert.de

Contact for **Editors**:
Sympra GmbH (GPRA)
Staffenbergstraße 32
70184 Stuttgart, Germany
Telefon: +49 711/9 47 67 - 0
Telefax: +49 711/9 47 67 - 87
vollert@sympra.de
www.sympra.de

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 & Co. KG

As a specialist for heavy loads manufacturing, Vollert Anlagenbau GmbH und Co. KG develops tailor-made systems for the movement, transport, storage and handling systems of heavy goods. In addition to plants for the construction material industry, the company, founded in 1925, also produces intralogistic systems for the metal and automotive industries, as well as shunting systems. Vollert employs 200 employees at its company headquarters in Weinsberg. www.vollert.de

Images:



Image 1:

At Liebherr in Kirchdorf, 20 tons of heavy excavator parts are already being painted while suspended using the new Vollert technology. The construction in the Ehingen plant will be able to carry up to 50 tons of working load.



Image 2:

For the loading and unloading of the workpieces, two 15-metre high manipulators are used at the start and end of the painting plant. Due to the mobile half-portal solution, no supports or columns get in the way during the delivery and removal of the workpieces.



Image 3:

The friction wheel technology from Vollert offers the highest level of explosion protection. The painting cabins require no motor and no power supply. In addition, the technology makes bridging possible between two separated feed rails for extreme working loads.



Image 4: (Source: Liebherr)

The Liebherr plant in Ehingen is one of the world's leading manufacturers of mobile and crawler cranes. In a new painting plant, up to 50 tons of suspended heavy parts will be coated in the future.

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