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NEW BLAST FURNACE PROJECT; CHARGE WAGGONS REPLACED BY MODERN CHARGING CONVEYORS

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GLEISDORF – BT-Wolfgang Binder has been supplying voestalpine with a wide range of products for 13 years now. The first ore conveyor system was delivered to Linz in 2002. It was followed by rebuilding of bins, a variety of conveying systems, coal processing systems and bin systems for transferring coal, vertical-sidewall-belt-conveyors and a new quarrying logistics system for the voestalpine lime works in Steyring.

In addition, a REDWAVE XRF sorting machine (REDWAVE is a division of BT-Wolfgang Binder GmbH working in the field of mineral sorting) was delivered to voestalpine Erzberg GmbH in 2012, for high-value ore sorting.

Based on the longstanding business relationship and the ongoing good service voestalpine has also decided to entrust BTW Plant Solutions – a division of BT-Wolfgang Binder responsible for Mineral Processing & Conveyor Technology – with their latest furnace project to build a new system of stock bins and conveyors for Furnaces No. 5 and 6 in 2015 and 2016.



The existing charge waggons have been in service in Linz ever since the 8-metre blast furnaces were built – for over 70 years now! This is why they are being consigned to a well-earned retirement. In the course of the renewal (lining) of the blast furnace No. 5 in 2015 a new material handling system is being built and the renewal (lining) of the blast furnace No. 6 with the new material handling system, will be done in 2016.

“Everyone who has already experienced a rebuilding job in an existing plant understands what a big challenge it is to integrate a new system. This one was made more difficult by the fact that the approval was only given in May 2014 and the project team had to prepare the application within just two months. Work on detailed engineering began immediately and at the beginning of November 2014 the whole system was ordered from BT-Wolfgang Binder GmbH as the best bidder.

The charge waggons will be replaced by a system of dosing-belt-weigher, vibrating feeders, weighing bins, weighing-vibrating-feeder and belt conveyors. The charge material will be transported to the furnace by belt conveyors – similar to those on Furnace A – via two new intermediate charging bins and the existing skips”, says the project manager Andreas Mairwöger of voestalpine Stahl GmbH in Linz.

Facts and figures on the new system for Furnace No. 5:

Some technical details on the new stockyard system show what it will be able to do.

The system is set up so that almost every material can be loaded through every charging device.

- 20 bins with new outlet chutes
- 14 dosing-belt-weigher for the materials sinter, pellets, lump ore and small coke
- 12 vibrating feeders and 4 weighing bins for the material HBI
- 4 vibrating feeders and 2 weighing vibrating feeders for the shredded steel scrap and LD slag
- 2 new belt conveyors with belt width 1200 mm
- 2 new intermediate charging bins

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