Trough conveyor for iron ore/coal in a steel plant

Product group: Trough conveyor

Industrial process: Discharging, feeding, conveying

Industry: Steel Production, Foundry Technology

Type of drive: Unbalance exciter

capacity (t/h): 2000 t/h | **bulk:** Iron ore and coal | **density (t/m³):** Eisenerz: 2,6 bis 3,2t/m³ Kohle:0,9 t/m³ | **grain size (mm):** Eisenerz: 8 bis 18mm (90%) <8mm (10%); Kohle :2-50mm

function:
The customer required a new transport system solution for his material infeed within his steel plant, as part of this project the customer required a new bunker discharge conveyor. The bunker was located outside and was fed by a bucket unloader. The first priority was that the discharge of the material should not disturb the construction of the bunker or the flow of material. A reconstruction of the existing bunker system was to be avoided. Therefore the conveyors had to be designed for the specific application.

solution:
Two trough conveyors type OA with the length of 3,500 mm and the width of 2,000 mm.

usability:

Due to the high flow rate, the customer received two trough conveyors. They would be positioned parallel to the existing conveyor belt. The installation of each trough conveyor was inclined 12 °. Also due to the high flow rate, unbalance exciter’s were the best solution. The final solution meant that no reconstruction of the existing bunker system were required.

place of installation: Italy