

High Angle Conveyor Solves “Sticky” Transfer Problems...



PHB Weserhutte S.A., of Gijon, Asturias, Spain (also known as PWH), went in search of the best equipment to elevate raw coal to the blast furnace coal grinding plant of a major steel producer in Northern Spain. PWH was offering a system expansion, including increased coal throughput, to new and existing blast furnaces. They wanted to offer their customer, Aceralia, the latest and most reliable technology.

The plants existing vertical pocket-belt system was problematic. It did not completely discharge the moist coal resulting in carry back and creating a major maintenance and clean-up problem.

The search began to focus on utilizing our sandwich-belt high-angle conveyors as the solution. The conventional, smooth rubber belts used in our system assured complete material discharge. This established method of conveying also allowed belt cleaning by standard belt scrapers. This eliminated carry back and a major source of maintenance problems.

Our conveyor is the latest in Sandwich-Belt High-Angle Conveyor technology. A firm yet gentle hugging pressure is imparted to the conveyed material entirely by a controlled and constant radial pressure. We induce this influence by belt tension and the (Patented) carrying profile of the system. There are no special pressing mechanisms or components in our system.

We employ only standard conventional conveyor equipment in our system.

Technical Data

Material: Coal

Density: 0.8 t/cu-m (50 PCF)

Conveying Rate: 250 t/h (276 STPH)

Belt Width: 1200 mm (47")

Lift: 35,100 mm (115')

Top Belt Drive: 30 kW (40.2 HP)

Size: 50 mm (2") minus

Conveying Angle: 75 degrees

Belt Speed: 2.29 m/s (450 FPM)

Length: 45,065 mm (148')

Bottom Belt Drive: 30 kW (40.2 HP)

Contact The Technology Consortium, Ltd. for additional details on this system...