

Material Degradation, Dust and Noise Reduced

The recent installation of three Weba Chute Systems at the Isdemir Steel Plant in Turkey has significantly reduced noise levels as well as material degradation and dust levels.

Alwin Nienaber, technical director of Weba Chute Systems, says that the custom engineering of the transfer points addressed the challenges previously experienced at the plant.

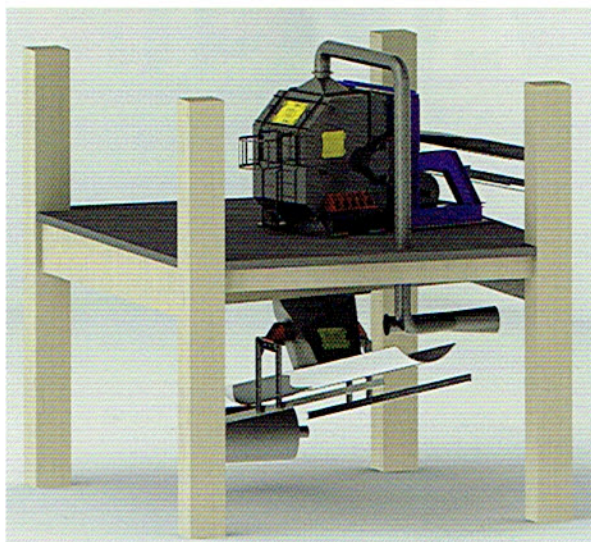
Describing the operation, Alwin says that incoming material is transported from barges to the raw materials handling section of the plant using a series of conveyors.

Three new systems are being used to move sinter, coke and iron ore pellets through the plant, and the materials handling system has been engineered with a redundancy component to ensure optimum reliability and continuous operation.

The first transfer point is a conveyor to conveyor chute with a belt width of 1 600mm and a material feed of 2.1m/sec. It has been designed to handle a maximum lump size of 60mm and 2 106tph of sinter, 522tph of coke or 1 496tph of iron pellets.

The other two chutes are bifurcated chutes with integral sampling systems. The transfer points are being fed at a maximum rate of 700m³/hr and receive material from and present material to a 1 200mm wide belt travelling at 1.98m/sec.

"Weba Chute Systems use a 'supertube' effect with a cascade scenario, where 95% of the material runs on material at the same time. This results in a controlled tumbling motion as opposed to material rushing down the chute," Alwin explains. "Further, by engineering the internal angle of the transfer point to match the product with the belt speed, we can guarantee a marked reduction in product degradation."



The company eliminated the conventional flopper door arrangement in the bifurcated chutes. This was replaced with a custom engineered articulating trolley section.

The reduction in material degradation results in reduced fines, reduced dust and substantially reduced noise pollution. It also decreases wear resulting in longer life for the transfer point wearing parts.

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ISO 9001:2008 Certified

Goscor Lift Truck Company (GLTC) has been ISO 9001:2008 certified and according to GLTC MD, Darryl Shafto, this is an important confirmation of the company's high levels of service, efficiency and product quality.



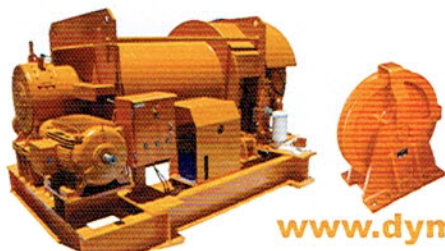
Darryl Shafto, Goscor Lift truck Company MD with Heather Morgan, ISO Co-ordinator.

"It's all very well believing that the way you run your business is excellent, but the fact is that until this has been objectively tested against global best practice, you cannot be sure that there are not things missing from your strategy and implementation," says Darryl. "Having been certified after being audited and evaluated by a renowned, international certification authority according to the prestigious ISO 9001:2008 standard, we now know that our belief in our own quality is more than justified."

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