



Demag KBK Semi-Automated Enclosed Track Monorail in a surface treatment application

Features and Benefits

Automated sequences do not require a constant operator presence.

Multiple loads handled easily.

Increased safety and reduced product damage due to reduced handling.

Industry Group: Monorail Manufacturers Association, Inc. (MMA)



The Opportunity

A manufacturer was looking for a way to increase the throughput of boiler tanks through the surface treatment process, without a large increase in manpower. At the same time gentle, precise handling was required to reduce the risk of product damage.

The Solution

A KBK IIR Loop Monorail System was installed with 14 individual hoist/trolley units. The curved track profiles allow the monorail to wind through the complex layout of the surface treatment line. Internal busbar inside the track profile provides a clean safe and reliable electric power supply along the entire length of the monorail. Once the tanks are loaded onto the hoists by the operator, he activates semi-automated mode and has no further interface with the parts until they arrive at the unload area. Each carrier is outfitted with a hoist with 2 chain lead off meaning that it can lift and lower 2 tanks completely synchronous insuring uniform treatment of paired

parts and high throughput. Smooth accelerating tractor drives and anti-collision sensors insure gentle and damage free transport throughout the process.

Wrap Up

Reduced manpower requirements and increased productivity resulted in excellent return on investment. The possibility of product damage has been greatly reduced. The system has proved to be extremely reliable.



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