



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

Features/Benefits Provided:

- **Automated sequences do not require a constant operator presence.**
- **Multiple loads handled easily**
- **Increased safety and reduced product damage due to reduced handling.**

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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