KONECRANES

Reliable and efficient warehousing

Speed and safety are crucial in coil storage. Automated cranes and a Warehouse Management System can streamline and optimize warehouse operations giving you improved efficiency, safety and productivity.

Coil handling crane

01 CONTROL OPTIONS

The crane can be controlled with a radio remote control or a cabin. Manual, semi-automated and fully-automated functions can be provided.

02 SMOOTH MOVES Smooth inverter controlled

traveling movements shorten material handling times and boost productivity.



Smart Features such as Load Positioning, Sway Control and Overload Protection help shorten handling times, reduce wear on the crane and speed up workflow.



O4 LIFTING DEVICES A wide range of lifting devices can be attached including magnets, coil grabs, hydraulic tons and more.

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Konecranes Warehouse Management System

The Konecranes Warehouse Management System (WMS) is designed for managing an automatic coil warehouse operated by cranes with mechanical grippers or magnets. The WMS consists of a basic module plus extension modules for yard management, production management and AGV management.

Warehouse Management System

- Achieve high throughput combined with high storage capacity.
- Rule configurator allows for easy adding and editing of position rules when storage requirements change.
- Reorganization of coil storage significantly reduces crane movements during peak times.
- Distribution of workload across all storage areas and cranes helps speed up the supply to the production line.
- Crane operating data can be analyzed for further warehouse optimization.
- System allows order prioritization for the most efficient retrieval sequences which helps increase productivity.
- Storage, retrieval and store selection strategies provide better organization and help increase safety and productivity.



- Provides one system to control the material flow from the train or truck to the warehouse and vice versa.
- High throughput can be achieved with the coordination between manual operation and automatic crane warehouse.
- Provides central interface between material handling technology and customer IT.

Production Management Module

- Provides automatic load optimization for increased efficiency.
- Production orders are automatically generated and managed with status updates to host systems.



- Automation of material handling outside the storage area provides increased efficiency.
- Safety is improved with the monitoring of AGV movements.
- Inventory tracking is enhanced by integrating the AMM in the WMS.

WMS planning

Visualization using a digital twin

Cutting-edge simulation technology replicates the entire warehouse system focusing on emulating crane movements. It enables real-time visualization and analysis of material flow inside the storage, allowing for the optimization of storage and retrieval strategies.

Detailed view using simulation

Conceptual planning with simulation and cost analysis aids in the development of a system that meets future demands in terms of throughput, storage and handling capacity in the most cost-efficient way.

Control concepts

Full automation: The operator defines the settings and the crane functions without further human input.

Semi automation: The operator maintains manual control with various features assisting.

- Can reduce costs by optimizing available space with shorter travel paths.
- Minimizes the potential for human error and improves safety of equipment, loads and personnel.
- Gives you more reliable and predictable processes and a larger volume of throughput.
- Increases accuracy and efficiency of stacking and retrieving items.



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