RFID system on Bins and trolleys

ENCO's strategic implementation of an RFID system for bins and trolleys demonstrates the transformative power of technology in supply chain management.

CASE STUDY | 2024

This case study explores how ENCO, a leading manufacturer of automotive parts, addressed critical challenges in their parts delivery system. The problems stemmed from difficulties in maintaining and tracking the bins and trolleys used to transport parts to customers. These issues potentially impacted part quality, limited visibility into the delivery process, and raised concerns about parts being damaged during transport.

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www.youtube.com/@enco-engineers-combine

Challenge:

ENCO, a leading manufacturer of automotive parts, faced a critical challenge in ensuring the proper maintenance and configuration of bins and trolleys. This resulted in:

Non-Conforming Trolleys: Occasional delivery of trolleys with incorrect preventive maintenance (PM) or cleaning status (CM), potentially impacting part quality at the customer's end.

Lack of Visibility: Difficulty in tracking the real-time location and status of bins and trolleys, hindering proactive maintenance and potential loss prevention.

Potential Transportation Damage: Concerns about parts being damaged during transport due to non-conforming trolleys.

Solution:

To address these challenges and improve supply chain efficiency, ENCO implemented a cutting-edge Radio Frequency Identification (RFID) system for bins and trolleys. This innovative solution involved:

RFID Tagging: Each bin and trolley was equipped with a unique RFID tag, allowing for automated identification and data capture.

SanC System Integration: The RFID system was seamlessly integrated with the existing SanC system.

Automated Alerts: Real-time data from the RFID tags is used to trigger alerts in the SanC system if a non-conforming bin or trolley is detected. This enables immediate corrective action to be taken.

Results:

The implementation of the RFID system has yielded significant benefits, including:

Improved Quality Control: By ensuring trolleys meet PM and CM requirements before dispatch, the risk of parts being damaged during transport is significantly reduced.

Enhanced Visibility: Real-time tracking of bins and trolleys facilitates proactive maintenance scheduling and reduces the risk of loss.

Reduced Costs: Improved quality control and streamlined logistics can lead to cost savings through minimized part rework and improved on-time deliveries.

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