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RFID in Manufacturing

SPONSORED BY

RADLEY CORPORATION
Refining Workflows with RFID
WIP Tracking for Manufacturing
About Radley

• Providing Technology Solutions for over 40 Years
  • EDI, Manufacturing & Warehouse Platforms
  • Consulting, Integration, Implementation & Training Services
  • Full Solution Provider - Mobile devices, printers and labels/tags

• Industry Knowledge & Experience
  • We Bring Our Diverse Expertise to You
  • Over 600 Customers/Installations in over 30 Countries
  • Food & Beverage, Plastics & Packaging, Natural Resources, Industrial/Consumer Goods, Automotive, Medical Equipment & Pharmaceutical, Metal Manufacturing

• Research & Development
  • Commitment to New Technology
  • Partner with Industry leading ERP & Technology Providers
  • Customer Driven
Configurable to meet...

EDI, MES & WMS SOLUTIONS

...your unique requirements.
Customer Overview

- Designer and Builder of High Quality Workplace Furniture, located in the Midwest, providing custom detailed products.
ISSUES

• Lack of Visibility to Work in Progress
  • Kits created during WIP misplaced
  • Kits moved to incorrect operations
  • Lack of visibility to know where the components were located at each stage to track rework and scrap
RFID Solution

- Track KEY Projects - WIP
  - Track WIP products movements between Operations – WHO and WHEN
  - Direct User to next Operation
  - Verify and Track Kit/Inventory traveled in correct Sequence
  - Alerts if WIP/Kits travel out of sequence
- INQUIRIES
  - Where are kits/inventory?
  - View WIP Tracking details
  - Direct ERP Integration

RESULTS = Visibility to WIP, Saved Time, Accuracy of Operations
Customer Overview

- Manufacturer of critical cleaning products, and cleanroom supplies.
ISSUES

- Inaccurate counts of product going into boxes
- Wrong product going into a box
- Palletized shipments having incorrect boxes/containers
- Wrong product being shipped to customer
RFID Solution

- Bagged inventory RFID labeled and read as inventory placed into a Box/container
- Verify correct inventory placed into Boxes/Containers, Scan the Box, Read the bag as it passes over RFID reader
- Bag counts tracked to ensure proper quantity
- Alerts provided if wrong inventory attempted into incorrect box
- Palletizing stations to ensure proper CASE count and proper Inventory on each pallet

RESULTS: Accurate Box Counts, Accurate Inventory for each customer = SATISFIED CUSTOMERS
Customer Overview

• Sophisticated American Boat Builder
ISSUES

• Lack of visibility to WIP, difficulty tracking rework
  • Products misplaced
  • Kits needed for production have missing pieces
  • Unable to see Routing steps and what is where
  • Rework and scrap not tracked well. Rework misplaced.
RFID Solution

- Track All WIP and Rework
  - TRACK WIP products movements between Operations – WHAT & WHEN
  - VERIFY & TRACK WIP traveled in correct Sequence
  - Kit Grouping – help identify items that belong in a kit and ensure all items included
- INQUIRIES
  - View WIP Tracking details
  - Direct ERP Integration

RESULTS = Visibility to WIP, Saved Time, Accuracy of Operations
Customer Overview

- Manufacturer of Office furniture systems, focusing on making solutions that make better places for people to work.
ISSUES

- **Products misplaced, lack of visibility to WIP**
  - Products misplaced
  - No visibility to Routing steps and what is where
  - Lack of visibility of rework and scrap
  - Products that should be grouped together are scattered
RFID Solution

• Track All WIP and Rework
  • TRACK WIP products movements between Operations – WHAT & WHEN
  • VERIFY & TRACK WIP traveled in correct Sequence
  • ALERTS if WIP travel out of sequence
  • INQUIRIES
    • View WIP Tracking details
    • Direct ERP Integration

RESULTS = Visibility to WIP, Saved Time, Accuracy of Operations
Considerations for RFID for tracking Work in Process

• Does your Workflow have natural choke points that can be used for tracking WIP traffic?

• What types of products will you be applying RFID labels to?

• Is there any metal products or carts?

• Any size limitations to consider for labeling? Does the label need to be removable?
Containerization & Kitting

- Create Kits and build up pallet and container relationships to complete multi-step transactions with RFID read
- Tracks and associates multiple data elements with a single read of a serial/license plate label:
  - Warehouse/Location
  - Employee ID
  - Part/Lot/Serial
  - Quantity, UOM
  - PO/Vendor

“Master, mixed, detail labels “on steroids…””
Go Beyond Hardware

• RFID is MORE than just hardware!

• Without MIDDLEWARE, you’re just scanning tags

**Put Your Data To WORK**
• Process & ANALYZE tag data
• Update back-end applications

= Make *faster* & more *informed* decisions
• Products & Services for RFID
  • Software
  • System Integration
  • Consulting/Site Survey
  • Readers, Portals & Tags
  • Implementation Pilot/Go-Live
  • Training & Support

A TRUE end-to-end RFID solution

www.radley.com
THANK YOU

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