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RFID in Manufacturing

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Refining Workflows with RFID

WIP Tracking for Manufacturing

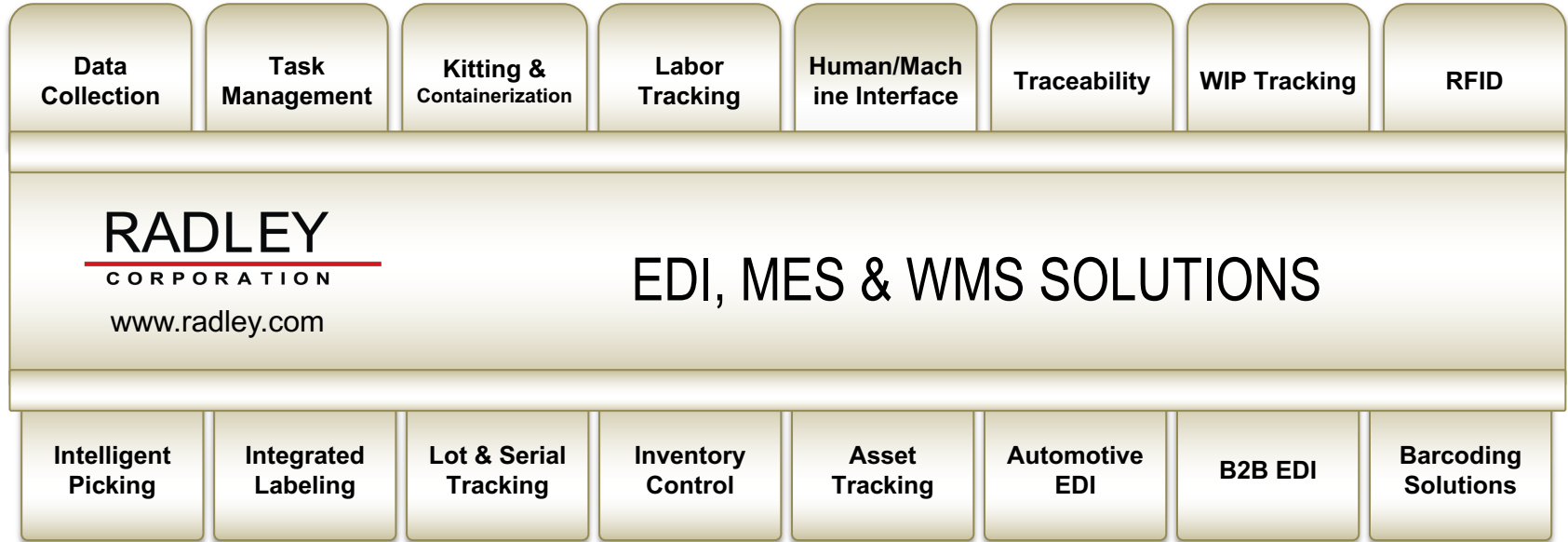


About Radley

- 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...



...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 JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

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 JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

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



RFIDJOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

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 JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

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 JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

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

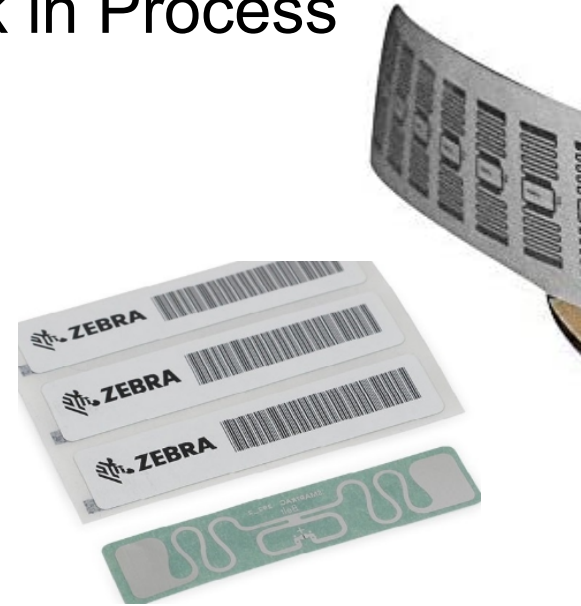


RFID JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

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?



RFID JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

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...”*



RFID JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

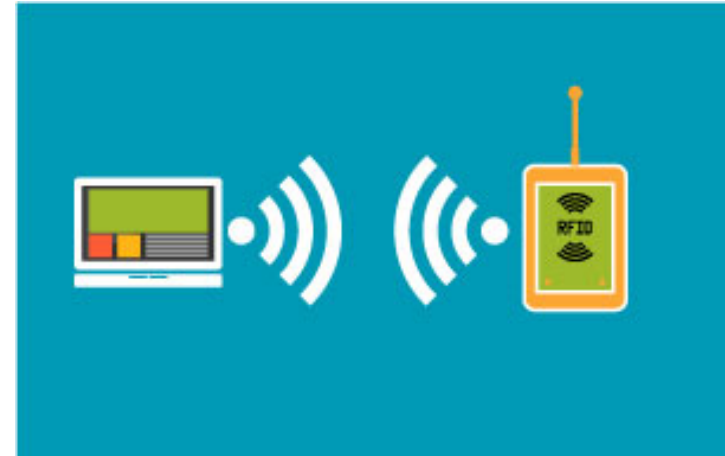
Go Beyond Hardware

- 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

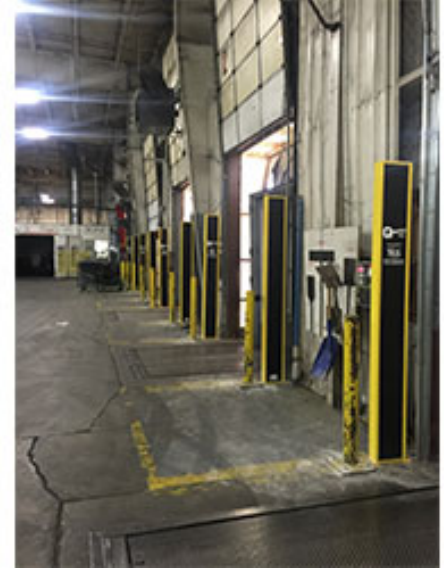
= Make faster & more informed decisions



RFID JOURNAL VIRTUAL EVENTS

RFID IN MANUFACTURING

- 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

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THANK YOU

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