

# Taking the Bite Out of a QAD Implementation

## Blending Old with New

### AT A GLANCE

#### CUSTOMER SNAPSHOT

- ITW Powertrain Fastening
- North American Manufacturer
- Designer & Manufacturer of Fastener Products

#### RADLEY PRODUCTS IMPLEMENTED

- [Integrated Data Collection](#)
- [Traceability](#)
- [Containerization/Kitting](#)

#### PROJECT SNAPSHOT

- Operational Analysis
- Project Management
- RF Network
- Barcode Data Collection
- License Plating
- Label Printing
- Custom UI Integration
- Mobile Devices
- Training & Support

#### BENEFITS

- Eliminated Need for Additional Labor as Business Volume Increased
- Improved Data Integrity
- Consolidated and Minimized Scans/Transactions
- Increased Real-Time Visibility to Inventory & Status's
- Increased Functionality without Customizing QAD
- Receives Immediate Error Alerts - As Each Barcode Is Scanned
- Online Queries, Downloads & Label Prints - From QAD to End User
- Simplified Kitting of Materials & Components
- Automated email alerts of inventory errors, statuses, etc.
- Search Inventory by Unlimited Characteristics, Serial, Co-Mingled Lots

#### CONTACT RADLEY

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#### Customer Summary

A North American manufacturer of deep-drawn & light-duty metal stampings, self-locking metal fasteners and washers as well as 2-piece and 3-piece assemblies, ITW Powertrain Fastening supplies the OEM and Tier automotive market as a part of Illinois Tool Works, Inc., a Fortune 200 company.

#### Challenges

ITW was in the process of transitioning from a custom business system that was developed specifically for their processes to QAD. As they attempted to mirror their existing workflows, they felt restricted with QAD's standard functionality. They wanted to at least maintain the level of functionality achieved with their previous system; but wanted to avoid the costly QAD customizations that would be required to do so.

- QAD transactions were time consuming and cumbersome.
- Needed to have full lot control from raw to finished goods.
- Unable to utilize their existing, simplified and familiar user interface.
- Huge learning curve for machine operation and production floor workers
- Manual weight & piece count conversion and entry into system were manual and error prone.

#### Solution

It was quickly identified that ITW was looking for a way to keep things as simplistic and as familiar as possible for their users. We suggested ITW implement a combination of Radley solutions and technology in order to gain control and simplify their workflows within QAD; along with a custom integration that allowed ITW to continue utilizing their existing user interface.

- Receiving automation to validate against a Purchase Order, Item Number, Work Order, Quantity
- Traceability technology was used to track lot and heat number during assembly
  - Heat = Supplier Lot in QAD
  - Stamping process creates bins with thousands of parts, material is back flushed against coil. Bins are separated into boxes with additional components which are placed on skids and customer specific labels are printed.
- Automatic UOM conversion takes place within Item Transfer transactions to calculate net weight to total number of pieces
- Multiple versions of the Unplanned Issue/Receipt transactions allow for entry of Gross/Tare pounds with the net pieces being issued or received, pounds converted to pieces to be issued or received and pieces being issued/received. Once the IL barcode is scanned, the data is added to the QAD work order.
- The Stamping/Heading Scrap transaction adjusts inventory to report scrap of the coil part that is the raw material to a stamp/heading Work Order:
  - Automatically calculates net weight
  - Validates: Work Order, Component Location, MC Number, Lot, Gross/Tare Weight, Reason
- Custom integration to allow users to perform transactions from their existing user interface while still utilizing Radley transaction functionality and automation
- Automated label printing was implemented for receiving and assembly
- Automated backflush during assembly process:
  - Customer specific master and detail assembly labels are generated/printed in batch for a skid. Work Order Receipt reports inventory and backflush by lot for primary components and FIFO for other components. Skids can be viewed/split/manipulated using the Intellilabel Maintenance and Intellilabel Inquiry.

#### Results

By implementing Radley barcode data collection, ITW streamlined time consuming transactions to be more efficient and gained the ability to configure their workflows to their specific business process, not QAD's. In addition, they significantly increased lot control functionality and traceability without extensive customizations. They avoided an extensive learning curve and the need to increase labor by being able to harness Radley technology and automation within their existing, familiar UI. ITW summed up their results best by saying "Replacing our home grown system...it would not have worked without the union of QAD and Radley". ITW now has multiple locations utilizing Radley solutions and has future plans to automate Cycle Counts, label reprints and implement scale interfaces.