

Managing and automating business solutions for a global Hi-Tech manufacturer





Overview

The client is a leading technology provider of advanced positioning solutions that maximize productivity and enhance profitability.

Organization Size: **2300**

Country: **USA**

Revenue: **\$3.5 Billion**



Challenges and Goals

The client had operational inefficiencies, inadequate visibility of work order execution, and higher turn-around time for component replacement. A solution with a complete view of shop floor transactions, materials, resources, costs, and work order progress was required. Key business requirements were:

- Color coded discrete job components with picking status depending on availability of unpicked components
- Some components needed fixed rule-based component selection for certain assemblies with multiple substitutes
- Replacement of defective component issued for manufacturing with an SLA of less than 10 minutes
- Manufacturing Pick Slips with criteria-based segmentation
- Signals in the form of delivery notes to material transactions of WIP completion, WIP component return, and byproducts obtained for warehouse needs



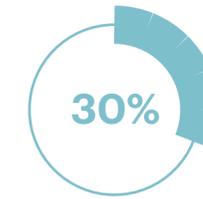
Solutions

We charted out a manufacturing unit's transformation roadmap for the client. Together with the client architecture team we identified strategic and tactical opportunities, conducted feasibility studies, designed, and implemented solutions. Our efforts included:

- Implementation of BoM, WIP, Quality, Cost Management and MSCA
- Creation of a visual management dashboard of material availability with advanced analytics and forecasting
- Rule-based substitution of components at the time of component picking
- Grouping / splitting of manufacturing pick slips based on complex business rules
- Generation of delivery notes for various material transactions
- Creation of overhead absorption rules based on product families for accurate costing of sub-assemblies and products
- Solution for emergency material replacement process
- Integration of EBS with TTS Quality Management System



Business Impact



Increase in operational efficiency with rule based component substitution

- Improvement in visibility of work order execution by 40%
- Automation of various transactions involved in component replacement process helped defective components replacement in less than 10 minutes

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