

vManage



vManage presents a complete view of the manufacturing process

Major product benefits

- Assurance that production is set-up right the first time
- Higher manufacturing productivity (improved OEE)
- Avoidance of defects caused by overexposed MSD components
- Complete real-time visibility of manufacturing performance
- Modular and scalable
- Centralized Database
- Increased Inventory Turns – reduced WIP, reduced inventory
- Complete traceability lowers costs of an unexpected product recall and helps manage supplier quality
- Support for companies' Lean Manufacturing implementations

Overview

vManage provides a complete shop floor control and material management solution that is a key component of the Mentor Graphics manufacturing execution suite for dynamic assembly. vManage is used by leading electronics manufacturers to achieve higher levels of profitability by providing a unique set of tools that form a cornerstone of their Lean manufacturing strategy - increasing inventory turns & OEE (Overall Equipment Effectiveness) - while providing full traceability of their materials and manufacturing processes.

Feature Summary

- Foolproof material registration
- Input data from 1D or 2D scanners or via keyboard
- Optimized preparation of material for manufacturing floor
- Verification that correct feeder type is used
- Complete offline setup verification support
- Easy set-up and splicing verification on SMT machines
- Verification that correct material is at the right manual assembly station in the right bin
- Forced scanning of serialized parts
- Component blocking and AVL control
- Full RoHS compliancy control
- Stops machine / operator if incorrect material is loaded
- Closed loop materia/stencil verification on screen printers
- Complete real time monitoring of machines/work cells
- Monitoring of material consumption and scrap rates
- Performance overview delivered directly to operators online and to management in a global view
- Indication of all manufacturing bottlenecks with ability to drill down for further analysis
- All performance parameters are stored for real time and historical analysis, and display in configurable dashboards
- Full visibility of exact material quantities in manufacturing
- Operators alerted for splicing or material replenishment
- Prioritization of needs and guidance of stock room material handlers to the work cells that require replenishment
- Full traceability of all components used in an assembly
- Verification that the proper SMT program is being used
- Comprehensive feeder maintenance management
- Machine is stopped / operator alerted if MSD exposure time for components has expired
- Fully configurable web based reports
- Just-in-time kitting and stock control with ERP integration

End-to-End Manufacturing Monitoring and Control

vManage provides a complete shop floor control and material management solution that is a key component of our manufacturing execution suite for dynamic assembly. vManage delivers higher levels of profitability by providing a unique set of tools that form a cornerstone of their Lean manufacturing strategy — increasing inventory turns and Overall Equipment Effectiveness (OEE) — while providing full traceability of materials and manufacturing processes.

Complete Visibility

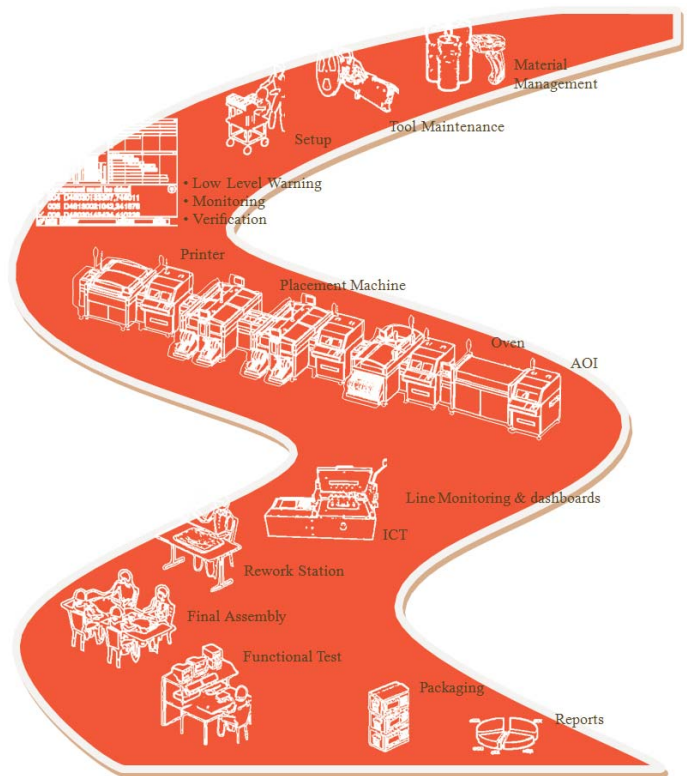
Complete visibility to every aspect of your manufacturing operation, from the beginning of your SMT lines right the way through to the end of final system assembly is provided by vManage. Accurate, real-time machine performance data is collected from all major equipment vendors and the same platform can be used to efficiently monitor manual assembly cells as well. vManage allows you to see an overview of your entire factory's performance, identify bottlenecks, and then drill down to determine what actions need to be taken to drive improvements. Configurable dashboards keep you informed at all times using the KPI's that matter most to you.

Perfect Set-Up

Avoid costly rework and scrap by ensuring that your operators set-up production builds right the first time. The system verifies that all materials required for a production build match the BOM, and are correctly loaded onto automated placement equipment or in the proper bins for manual assembly. Operators are alerted to any errors and the system will not allow a machine to run until they are properly resolved. vManage provides a further level of control over lead-free or RoHS compliant production by blocking use of any components with an incorrect material composition.

Material Management & Traceability

By delivering all the information that you need to optimize your material, vManage helps you to increase your inventory turns and improves the profitability of your operation. The system enables automated “pull based” manufacturing through its Low Level Warning technology that notifies



operators when material needs replenishment, and stockers exactly where and when to deliver parts. Just-in-time kitting option with ERP integration keeps the right parts at the right shop floor location, at the right time.

vManage is the industry's leading component traceability solution. Through complete visibility of all components that have been assembled on a product, vManage minimizes the cost, and simplifies the planning, of a product recall, and is a cornerstone of a comprehensive supplier quality management strategy. vManage's unique technology provides full tracing functionality to the most detailed level required by customers delivering products in the most demanding industries. The mobile option keeps critical data in the palm of your hand via wireless PDA/scanners.

System Requirements

- Windows 2000 or XP
- Core 2, 2 GHz processor, 1 GB RAM, 1 GB disk space

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