

MANUFACTURING EXECUTION SYSTEM (MES)

OBJECTIVE

Combining MES and ERP for total enterprise-wide visibility, real-time and two-way collaborative communication.

OVERVIEW

For too long, manufacturers have struggled with bolted together MES and ERP solutions that cause problems when transferring information between systems and require costly software integration. At DELMIAworks, our ERP and MES software systems are one in the same, offering data from your supply chain, factory floor and ERP software combined for improved shop floor performance, compliance and visibility.

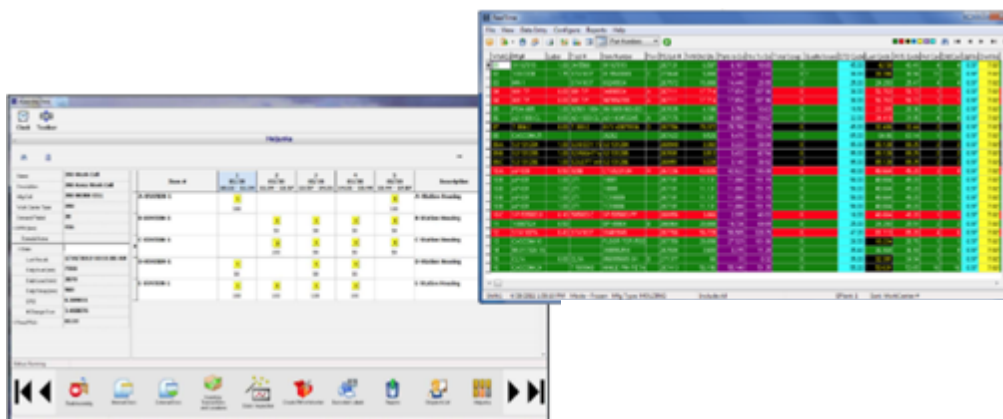
This unique comprehensive software structure delivers two-way communication for a proactive approach to manufacturing and improved factory performance with accurate, real-time visibility into every aspect of your enterprise.

From state-of-the-art process monitoring tools that track and analyze process data parameters to shop floor machine data collection, DELMIAworks has the software to help you control costs and proactively make informed decisions.

In addition to unrivaled manufacturing intelligence, DELMIAworks also offers detailed inventory tracking, a comprehensive suite of quality modules, production traceability, tracking and genealogy, business activity monitoring and lean manufacturing tools.

KEY BENEFITS

- Reduce production errors with real-time machine monitoring
- Decrease product lead time with a robust scheduling program
- Increase company-wide productivity and encourage employee accountability
- Improve quality compliance and reduce quality losses with a comprehensive suite of quality modules
- Increase production throughput while controlling costs
- Gain visibility into every aspect of your manufacturing



Pictured at Left: Maintain lean practices with an automated Ikanban-based load leveling Heijunka Box module.

Pictured at right: DELMIAworks' RealTime Production Monitoring module tracks all aspects of your part production in real time, including total parts, downtime, rejects and parts remaining.

MANUFACTURING EXECUTION SYSTEM: KEY FEATURES

RealTime™ Production Monitoring

Track all aspects of your product production in real time, including total products created, production time, downtime, rejects and products remaining, for optimal manufacturing performance.

RealTime™ Process Monitoring

Immediately capture, view and analyze unlimited process data parameters, such as item numbers, work center details, lot numbers and dates and times as production is occurring.

Advanced Planning and Scheduling

DELMIAworks' robust, detailed scheduling program takes into account every aspect of your business, from inventory availability to machine maintenance, to ensure timely delivery of products to your customers.

Overall Equipment Efficiency (OEE)

Evaluate the manufacturing productivity of a work center or process based on availability, performance and quality.

Quality Management

Cost effectively manage quality challenges while streamlining operations with DELMIAworks' in-depth suite of quality tools, including ECO/ECN, CAR/CAPA and document control.

Material Resource Planning (MRP)

Taking into account both purchasing and production, the MRP engine spans the entire enterprise for accurate material need forecasting.

Heijunka Box and Kanban

Maintain lean practices with an automated Kanban-based load leveling module based on Every Part Every Interval (EPEI) calculations.

Business Activity Monitoring

Automatically receive event-based notifications through email, text or voice alert wherever you are for proactive decision making.

Business and Manufacturing Intelligence

Through reports, email alerts, advanced analytics, dashboards and KPIs, identify profitable and unprofitable areas throughout your business.

Mobile Apps

Based on native Android technology, DELMIAworks' mobile applications offer all the tools you need to manage your shop floor while on the go—from a tablet, smart phone or the RTStation.

RTStation

A rugged touch screen device that becomes an DELMIAworks user interface at each shop floor work center, the RTStation is designed for easy data input and operator feedback.

Statistical Process Control (SPC)

Key in critical data or input automatically from serial devices. Access and evaluate data while machines operate with real-time control charts. Supported charts include X-bar-R, X-MR, p-np and histograms as well as capability analysis with Cpk and Ppk.

Automation

Do you have a process that, if automated, could save you time and money? DELMIAworks' unique Automation Department is ready and waiting to accept and develop your automation ideas.

LEARN MORE

To learn more about Manufacturing Execution System or if you would like more information on the products and services from DELMIAworks please visit www.3ds.com/delmiaworks.

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