

MES

Smart and optimal manufacturing management

First step to productivity innovation for manufacturing company

Overview

Manufacturing Execution System

The implementation of an integrated manufacturing execution system(MES) enables real-time monitoring of all information generated in the production site, improvements of production processes, and agile responses to global business environment changes.

Benefits

CEO (Chief Executive Officer)



Make reasonable decision by managing production results and equipment utilization rates as Key Performance Indicators(KPI)

Production Manager



Enhance yield by utilizing seamless production and real time quality analysis through systematic production management

Shop Floor Workers



Prevent mistakes of insert and assembly through fool proof system design and automation of equipment management

Solutions

Developed based on the standard processes of the Manufacturing Enterprise Solutions Association(MESA), and provide manufacturing management solutions essentially required in manufacturing on-sites.

Basic Function				Extended Function
Master Data GCM General Code Management	Inventory INV Inventory	Production Management WIP Work In Process	Equipment Management RAS Resource Allocation & Status	Measurement Instrument MMS Measurement Management System
Quality Inspection QCM Quality Control Management	Label Management LBL Label Management	Priority Management RTD Real Time Dispatcher	Engineering Data Collection EDC Engineering Data Collection	Facility Maintenance FMS Facility Maintenance System

Features

Accomplish big increase in productivity through smart manufacturing management.



Inventory Management **INV**

- Accurate material management through real object-based warehouse-release management
- Accurate material inventory and history tracking

Production Management **WIP**

- Provide LOT traceability through 4M-based production history management
- Detailed production result management based on production planning

Equipment Management **RAS**

- Realize high utilization rate through monitoring status of equipment and tool
- Management of equipment downtime history and analysis of detailed root cause

Quality Inspection **QCM**

- Real-time quality inspection of materials and finished goods
- Production quality enhancement through system-based defect inspection

Priority Management **RTD**

- Manage job priorities by defining dispatcher
- Streamline production through priority management of production processes

Engineering Data Collection **EDC**

- Collect and visualize data as per equipment and LOT(graph)
- Ensure stability of production process through equipment data analysis

Measurement Instrument Management **MMS**

- Eliminate process volatility through calibration and result management of measurement instrument
- Ensure reliability of measurement values through systematic measurement instrument management

Facility Maintenance **FMS**

- Maximize equipment availability through maintenance management
- Enable quick response to equipment failure through consumable inventory management

