

## BROCHURE

# Infor Manufacturing Execution System (MES)

### **Modular MES software with out-of-the-box capabilities that help you achieve manufacturing excellence and digital transformation**

The Infor® MES software platform comprises functions across the four main areas of manufacturing operations, as defined by the ISA-95 model.

Organizations can select the MES software functionality needed to meet an initial requirement, and over time more functions can be added to build a comprehensive enterprise MES system.

Infor MES offers software functionality for production, quality, maintenance, and inventory and logistics operations. How can Infor MES benefit your business?

### **What is MES software?**

Manufacturing Execution System (MES) software is a system “to manage, monitor and synchronise the execution of real-time, physical processes involved in transforming raw materials into intermediate and/or finished goods.” **Gartner**.

## Production operations

**Production planning and scheduling**—Plan production orders, determine start and end dates, and assess both capacity and ability to meet deadlines. Communicate the plan to production with real-time feedback as production executes.

**Job and production tracking**—Production tracking for batch and discrete manufacturing orders. Track production order progress through the factory for each manufacturing operation or for each batch process.

**Downtime tracking and analysis**—Machine downtime is recorded by direct connection to the PLCs controlling production processes (or manually where such connections are not possible); downtime analysis and reporting then identifies opportunities for improvement.

**Production counting**—Record production quantities either manually at the end of the production run, or in real-time, by picking up counts from the production lines and equipment. Calculate KPIs such as production efficiency and actual cycle times.

**Waste**—Record production waste and scrap manually or automatically. Analyse waste with real-time data capture to help reduce losses.

**OEE**—Collect and analyse production performance data that calculates OEE for each production process. Improve production efficiency and accountability.

**Line logbook**—Improve communications across all groups within manufacturing, e.g., hand-over between crews on shift change, team and management reporting, operators back to planning. Improve traceability.

**Labor tracking**—Track where labor hours have been spent. Define target manpower on the product routing. Control costs. Improve exception management. Support traceability.

**Workflow**—Model the execution of the manufacturing process in the MES. Identify all the steps that should be followed, capture the progress of the job as it executes, and keep a detailed record of the production process.

## Quality operations

**Quality checks**—Quality management software allowing data to be collected at the line or in the lab. Issue reminders to operatives, enforce the quality control system, respond to issues, and measure conformance.

**SPC analysis**—The tools to measure process variation, understand process capability and reduce the impact of process variation. Visualise SPC charts and add SPC data to conformance certificates.

**Process monitoring**—Monitor process parameters with the built-in historian of Infor MES. Chart data. Gain deeper insight into the process. Enhance traceability.

**Links to documents**—Quickly access all the documents you need, e.g., SOPs, CAD drawings, product specification documents, quality procedures. Ensure everyone is working from the latest revision.

**Concerns and CAPA**—Speed up the resolution of non-conformances. Record, track, and document non-conformances through to resolution.

**Customer complaints**—Record, investigate and manage customer complaints. Improve the speed of resolution. Develop accountability and best practice. Improve customer satisfaction.

**Supplier complaints**—Drive greater supplier performance. Record, investigate, and manage supplier non-conformances. Create a paperless record to support the complaint. Manage claims.

## Inventory operations

**Inventory**—Create, track, and manage multiple materials/handling units, from raw materials, to semi-finished and finished goods, to enable traceability.

**Label printing**—Automatically print bar-code labels on your own templates. Use labels to implement traceability.

**Traceability and consumption**—Track lot traceability as materials are consumed in the manufacturing process. Improve stock accuracy and meet traceability requirements.

**Build traceability**—Ensure traceability of manufacturing operations at the serialised parts level through to finished goods. Achieve compliance with inventory updates in real time.

**Warehouse and logistics**—Manage inbound and outbound deliveries. Capture traceability data at shipping. Manage internal material movement orders (replenishment) and deliveries. Track orders and materials in the warehouse. Link with the ERP.

## Maintenance operations

**Asset register**—Improve Enterprise Asset Management. Manage manufacturing assets through their life cycles.

**Maintenance management**—Optimize maintenance activities: create maintenance procedures. Plan and manage maintenance work. Record work completed, as well as spare parts used.

**Repairs**—Speed up responses to breakdowns. Manage repair work. Enforce procedures.

**Tool management**—Monitor tool life. Track tools used in the process. Develop detailed tool histories. Make better decisions regarding tool use and maintenance.

**Energy**—Record energy and resource consumption. Know where your energy goes. Reduce energy losses.

## Enabling digital transformation

An MES can serve as the foundation of digital transformation for manufacturers. Infor MES provides a flexible framework to leverage new technology, including:

- **Smart manufacturing:** Infor MES enables automated data capture from all machines, production lines, and ancillary equipment; it communicates with ERP systems to provide a real-time view of the state of the factory, with visual controls and user-friendly, role-based interfaces
- **Ease of deployment:** Infor MES is an out-of-the-box, full HTML5 application, built on standard technologies with trusted worldwide support
- **Hosting options:** Infor MES can be deployed on-site, in a corporate data center, or in the cloud
- **A functional MES system:** Infor MES delivers rich functionality across all areas of manufacturing production, quality, warehouse, logistics operations, and maintenance

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INF-2738611-en-US-0622-1