Epicor CMS
Production Manager

Did you think that MES had to be separate from your ERP solution? Think again. Automatically connect to machines and empower your employees with Production Manager.

Gain access to real-time manufacturing information, improve plant productivity, reduce downtime, unlock capacity and reduce inventory and labor costs with Production Manager. Get a better handle on your shop floor efficiency, meet demanding minimum process requirements and empower employees.

Right part, right quantity, right label, you bet
Ready to help error-proof and automate your production reporting process? Epicor can help. Epicor Production Manager for Epicor CMS combines a touch screen human-machine interface (HMI) and a programmable logic controller (PLC) machine interface to deliver a single tool for reporting events on your shop floor (production, scrap, and machine state). Replace scan sheets with the easy-to-use touchscreen HMI or Automate production reporting by collecting information directly from a machine.

Automated Machine Data Collection
The shop floor OPC client enables the collection of machine data automatically from OPC-compliant PLCs. Part changeovers, production, scrap, and shift changes can be fully or partially automated. That information flows seamlessly into the CMS event-based production module and updates CMS in real-time. Eliminate the potential for human error by using full automation to automatically report quantities and print serial labels. By automating data capture you can allow your operators to focus on what you hired them to do - make parts.

Human Machine Interface (HMI)
Use the Epicor CMS HMI to perform shop floor activities on any device in your company with an installed HTML 5 compatible browser. The CMS Production Manager HMI has rich out-of-the-box functionality that enables shop floor execution and analytics to be done in real-time effectively and efficiently. By using the Production Manager HMI you can track labor, monitor production activities, perform production entry, load and verify material, print labels, track containers, change jobs, view current and upcoming job data and enter quality inspection data. The easy-to-use touchscreen interface means that ramping up new employees has never been easier.

Benefits
- Improved customer satisfaction through reducing errors in packing/labeling
- Compliance with stringent customer minimum process requirements
- Real-time inventory and clear visibility into what is currently happening on the shop floor
- Simplified operator environment and reporting processes to help reduce training and human error
- Accurate overall equipment effectiveness (OEE) metrics based on real data
Labor Tracking
Supervisors and operators can log into the HMI with access based on their role in your organization. Track labor against setup, production, and downtime. If you utilize the optional skills capabilities then the system will check that the employee has the right skills to run.

Production and Quality Alerts
Alerts that have been set up in the core Epicor CMS solution can be shown to an operator as they log on or change jobs. If there are any drawings or images associated with the alert the operator will see those and they will be forced to acknowledge any alerts before proceeding with production reporting. A log will be kept when an employee acknowledges an alert.

Material Loading and Verification
If material traceability is something that is important then you can have employees load material by scanning serial number(s) for a production run. The system will verify that the material being loaded is the correct material and falls acceptably within any FIFO requirements you have set.

Scrap Reporting
If your machines are intelligent enough we can automatically capture scrap. However, operators can also enter scrap from the HMI and input a reason code for tracking purposes. Scrap could be finished goods, WIP parts or event component items.

Production Reporting
Good pieces and time can be automatically captured through OPC or can be manually inputted by an operator using the HMI. If manually capturing production then most commonly the operator would wait until a container was filled and then press the standard pack button which would report production, print a label, and backflush any material.

Container Tracking
In the automotive space tracking containers can be an important part of the process. With the Production Manager, we can default the finished good container to a standard container and the employee can override the container as needed. This makes it simple to track expendable versus returnable containers and the container will be linked to the serial label to make shipping easy.
**Automatic Changeover**
Use the automatic changeover functionality to avoid a mismatch between what the operator is reporting production on, and what the machine is actually producing. By validating information from the machine we can help ensure that the right labels are being printed and you avoid the costly mistake of sending the wrong parts to the customer.

**Partial Containers**
Partially filled containers can be a real headache to track. From within the CMS Production Manager HMI, an operator can easily check to see if there are any partial containers in the building and then use the "Fill Up" option to report production into that container. All while still maintaining traceability.

**Labeling**
Customer container and master labels can print lineside. This can be an automatic process where when a pack size is reached a container label prints out or there can be operator intervention. Producing a family part with a left and a right label required? No problem. You can configure the system to print the left label in a designated left label printer and the right in a right label printer. The goal is to prevent mislabeling errors.

**Downtime Tracking**
If you are doing automatic part reporting then we can automatically track the state of the machine. Is it running or is it down? With either automatic or manual reporting an operator or supervisor can tag the downtime with a reason. Once the downtime is tagged you can now more effectively implement continuous improvement programs to reduce downtime.

**Online Quality Inspections**
With the quality features turned on an operator can be prompted when it is time to do an inspection and they can input the results of their inspection. The inspection could be something simple like a visual inspection or something more complicated where a gauge is used to measure some value. Any measurement that is input will be checked against the min/max tolerance level and the system will determine if it is a good part or some other action needs to be taken. Goods can then be held, scrapped, or marked for rework.
Supervisors walking the shop floor can quickly identify potential problems and will now know what they need to focus their time on. This can lead to improved uptime, improved efficiency, better quality, and higher customer satisfaction.

Operators who are assigned to a machine will often keep a close eye on the metrics provided by Visual Factory and will work harder to help ensure their machine doesn’t fall behind goals.

**Document Visibility**

Supervisors and operators have access to all the documents that are important for them to make good quality parts. Attach drawings, process sheets, and quality inspection plans so that they can be viewed in real time.

**Empower Your Team**

In today’s global manufacturing environment, competing for new opportunities and reducing costs requires real-time data and the insights that it provides. Have you ever been sitting in the morning production meeting and you find out about an inefficiency or scrap problem that happened yesterday? By the time you get the data you need from traditional reports, it’s too late to take action and now you are fighting a potentially big, costly problem.

With Production Manager, you empower your shop floor operators and supervisors and give them the information they need to make faster decisions.

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**Visual Factory**

Built to work with Epicor CMS out-of-the-box, the Visual Factory provides an at-a-glance view of how a machine is performing.

The Visual Factory simply runs in a browser and is often displayed on large screen monitors across the shop floor at each cell, or using android tablets closer to the operator’s eye level.

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