

Epicor Advanced MES for Epicor® ERP

Manufacturing Execution
System Overview





MES and ERP Together

Epicor Advanced MES for Epicor ERP

Manufacturing Execution System (MES)

Staying competitive isn't easy in today's evolving manufacturing space. How do you increase efficiency and reduce costs while still complying with your customers' requirements? That's where the Epicor Advanced MES Manufacturing Execution System (MES) for Epicor ERP comes in. Advanced MES utilizes Industry 4.0 technology on the shop floor—such as cyber-physical systems and Internet of Things (IoT) sensors—to help you gain the competitive advantage you need—both now and in the future.

Epicor ERP manufacturers use Advanced MES to improve quality, reduce scrap, help ensure on-time delivery, and boost production throughput. It's all about improving production execution and performance efficiency to gain a competitive advantage. How do you make more without more assets? Uncover and eliminate downtime to make more parts or cut costs. MES can improve profitability by helping you find more capacity.

Epicor Advanced MES collects data directly from equipment and operators on the shop floor in real time, minimizing inaccurate and time-consuming manual data collection. With information instantly in your hands, you can anticipate and solve production problems before they happen. Real-time insight helps you pinpoint critical issues, reduce waste, and improve quality and customer service. Everyone in the plant and throughout the business can take action to improve manufacturing performance.

“We used to run 3–4% scrap. Last month, we were down to 1.37%. You can’t get much better than that. That’s world class, and is largely attributable to Advanced MES. It’s the tool that gives us the numbers we need to make good decisions.”

Dave Rose, Quality Engineer
Johnson Controls

Designed For Your Industry

Epicor Advanced MES was designed with your industry in mind. With its origin in the rubber, plastics, automotive, and metals industries, Epicor Advanced MES has more than 20 years of domain and industry best practices built in, yet it offers you the agility to meet changing demands and requirements.

Epicor Advanced MES is an out-of-the-box, configurable MES solution that enables rapid implementation while still being fully extensible to meet the most demanding requirements.

Deploy Your Way

Epicor Advanced MES isn’t just a platform—it’s a purpose-built point solution, meaning you won’t need extensive consulting and expensive customizations to get a quick return on your investment. Out-of-the-box tools for every level of the organization make it easy to see almost immediate business results, and Epicor makes it simple to connect to your data—no matter how timeworn or modern. Epicor Advanced MES also uses open connectivity protocol (OPC), programmable logic controllers (PLC), machine interface units (MIU), and personal computer (PC) interfaces.

Usability

Epicor Advanced MES collects production data automatically, and it can pass this information directly to your Epicor ERP system. Operators on the shop floor use touch screen technology to add depth and dimension to the automatic production data, so you get a clear picture of the what, why, and when of downtime, cycle time, quality, and scrap. The system also has real-time alerts, notifications, and other communications, so the people who need to know are in the know when it matters most—letting them take immediate action to correct a problem or improve performance.

Whether you’re making on-the-fly production schedule changes, setting up daily operations meetings, or managing dashboards and reports, Epicor Advanced MES is easy to use and ideal for one-click, drill-down insight and reporting. Most importantly, it has been designed with bi-directional integration with Epicor ERP, so you can connect your top floor to your shop floor.

Epicor Advanced MES—value for your business

- Improve cycle times, overall equipment effectiveness (OEE), and plant productivity
- Eliminate manual data collection
- Improve scheduling agility with real-time insight into machine performance
- Monitor every cycle and every machine 24/7, giving you near-instantaneous visibility into production and quality problems
- Reduce scrap and rework with automatic part qualification and part rejection
- Capture part and machine process data for traceability purposes
- Maximize production and reduce costs by automatically capturing statistical process control (SPC) and statistical quality control (SQC) results
- Monitor utility consumption and pinpoint energy savings



About Epicor

Epicor Software Corporation drives business growth. We provide flexible, industry-specific software designed to fit the precise needs of our manufacturing, distribution, retail, and service industry customers. More than 45 years of experience with our customers' unique business processes and operational requirements are built into every solution—in the cloud or on premises. With this deep understanding of your industry, Epicor solutions dramatically improve performance and profitability while easing complexity so you can focus on growth. For more information, [connect with Epicor](#) or visit www.epicor.com.

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