Proficy Smart Factory MES from Velotic

Increase efficiency and reduce costs with one seamless MES across process, discrete, and mixed manufacturing

Modern Manufacturing Execution System (MES) software to maximize operational effectiveness

Proficy Smart Factory MES is a powerful operations management solution for process, discrete, and mixed manufacturers – spanning food and beverage and consumer packaged goods to aviation and automotive. Part of the Proficy Smart Factory suite, this MES solution collects and analyzes data, and helps manage highly automated, fast-moving processes as well as slower moving, labor-intensive jobs.

Proven and developed for 25+ years with thousands of implementations around the world, Proficy Smart Factory MES automates and integrates information-related activities for managing production execution and performance optimization. It helps balance competing priorities of production operations for maximized operational effectiveness and profitability. As a single, seamless MES solution across manufacturing environments, Proficy Smart Factory MES reduces costs and saves time.

The new version reduces time to solution, improves UX, and expands functionality including discrete manufacturing capabilities. New features include zero downtime web client updates, new and enhanced out-of-the-box web UI views, significant additions to non-conformance management, new BOM-related capabilities, and much more.

Outcomes

- Reduce costs and improve agility with one MES solution that uniquely serves your discrete, process, and mixed manufacturing requirements
- Boost operational effectiveness by understanding operations performance down to the individual asset
- Improve performance with capabilities designed to solve the toughest manufacturing challenges and support continuous improvement
- Drive precision with the ability to visualize, analyze, optimize, and execute with a closed-loop solution
- Leverage faster deployment with commercial off-the-shelf (COTS) software, accelerating implementation, and ROI

01 Efficiency Management

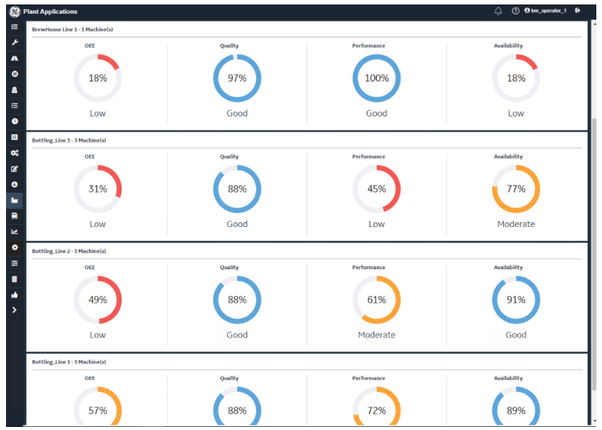
- The Efficiency Management module tracks and monitors overall equipment effectiveness (OEE) and other critical key performance indicators including, downtime, waste, production counts, MTBF, MTTR, and more
- Automatically or manually associate events with causes and then analyze to identify root causes
- Summarize and analyze data by context
- Correlate events and reasons to actual production parameters. Utilize standard and ad-hoc reports, and dashboards for real-time decisions

02 Production Management and tracking

Define and revise the control route and operations required to make a specific product on a specific line. The Production Management module oversees production operations, including functions to control product flow between equipment, develop product genealogy reports, and make schedule changes to reduce excess inventory. It supports production schedule execution and product tracking against scheduled completion times with adjustments to optimize efficiencies. Production management supports full traceability of individual products through every step of the manufacturing process allowing for auditable genealogy and production reporting.

03 Quality Management and Batch Analysis

The Quality Management module drives consistent quality in products, providing real-time trends, statistics, SPC, and notifications. It integrates process, inspection, and test data from both manual and automated sources, and houses this information in one integrated place – including support for 21 CFR Part 11. Quality Management attaches operator comments, specifications, recipes, and procedure documents. The Batch Analysis module supports ISA-88 recipe analysis for products as formulation (BOM), procedures, and equipment; provides analysis of scheduled/completed recipes; and generates EBR.



Level-up with Proficy Smart Factory MES

- Recognized as a Leader in MES by 4 major industry analyst firms
- Faster time to value: dozens of out-of-the-box screens for process, discrete, and mixed manufacturing environments
- Rich visualization: easily customize screens without writing code
- Manage large enterprises including mixed/diverse manufacturing, multi-sites, and global
- Run in private or public cloud and/or on-premises
- Proven MES, expert support, and real results

"We further developed our by-the-numbers approach by creating a downtime dashboard – which tracks each line by shift, downtime percentage, and cost of downtime – to create friendly competition amongst factory operators and encourage production efficiency improvements."

Don M. Cormier, Vice President, U.S. Information Systems and Quality Assurance, Toray Plastics (America), Inc.

Velotic is recognized.

We are proud to announce that Velotic has been named a Representative in the 2026 Gartner® Market Guide for Manufacturing Execution Systems. We believe this is a powerful step forward in our work toward powering our cutomers' transition to digital with fully integrated industrial manufacturing and utilities software.

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Features

New in version 2026

Cloud Native On-Premises Option

- New fully containerized, cloud-native architecture running on Kubernetes available for customer-managed deployments
- Delivers cloud technologies while allowing manufacturers to retain on-premises control
- Supports manufacturers that prefer local deployments due to concerns around internet connectivity or corporate policies
- Supports multiple Kubernetes distributions enabling auto scaling and fault tolerant deployments
- Simplifies deployment using Helm charts.
- Enables customers to leverage existing Kubernetes infrastructure
- Supports multiple sites on a single environment with tight security control
- Modern 64-bit, containerized architecture.
- Python scripting replaces VBScript.
- Improves scalability, resiliency, and system performance.
- Monthly zero downtime updates
- Software upgrades can be performed with minimal production interruption, reducing planned maintenance windows.
- Aligns on-prem deployments with the same modern platform used for SaaS.
- Customers running on-premises can optionally purchase managed services for system administration and maintenance.

High Availability & Reliability for Hybrid Deployments

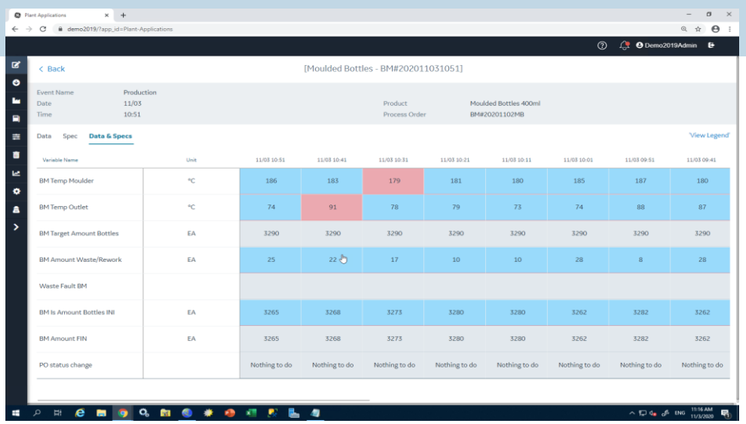
- Enterprise Edition targets one-minute or less failover.
- Long-term goal is seamless failover with effectively zero downtime.

Modern Platform & Integration

- **GraphQL APIs**
  - Modern API layer simplifies access to manufacturing data.
  - Reduces integration complexity by eliminating the need to understand database relationships.
  - Enables easier development of dashboards, reports, custom applications, and integrations.
  - Read, Update and Subscribe to manufacturing data.
  - Fully secured with Role Based Access Control.
- **SAP-certified ERP connector**
  - Certified SAP connector requiring little to no ERP-side modifications.
  - Also supports integration with other ERP platforms.

- **Enterprise security enhancements**
  - Continued investment in cybersecurity for on-prem deployments.
  - Supports modern authentication, including opaque tokens for enhanced security.
  - Expanded role-based security controls.

- **Performance & User Experience**
  - **Improved application performance**
    - Faster UI load times across the application.
    - Additional performance improvements planned in future releases.
  - **Enterprise Installer enhancements**
    - Faster installation and upgrades.
    - Improved logging, diagnostics, and error checking.
    - Simplified deployment for both Windows and Hybrid environments.
- **Customization & Extensibility**
- **Operations Hub widgets**
  - Expandable widget-based user experience.
  - New widgets (including SPC) support configurable dashboards and operator interfaces.
- **Natural language AI foundation**
  - AI-powered chat interface for querying MES data (via customer LLM).
  - Built on GraphQL and Model Context Protocol (MCP).
  - Role-based security ensures users only access authorized information.



Velotic is recognized.

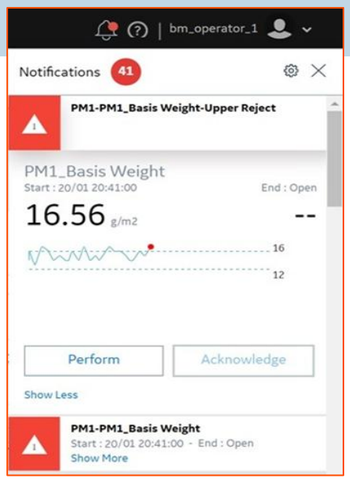
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Empower the modern Connected Worker and operating teams with easy, flexible access to their manufacturing data for better decision making.

To the left, see an example of a process order detail view.

To the right, see our real-time interaction on mobile devices.



Learn how Proficy Smart Factory MES helps you balance the tradeoffs between competing production priorities and maximize your operational effectiveness.

Consult product documentation for hardware/software requirements. Confirm standard vs optional features with Velotic representative. Specifications are subject to change without notice. Results and functionality vary, depending on existing hardware/software, applications, implementation, and other factors.

Lean more

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