

# The Key to Transform your Production Management

Orchestrate your operations with MES for more visibility and control, and lay the groundwork for a digital future.



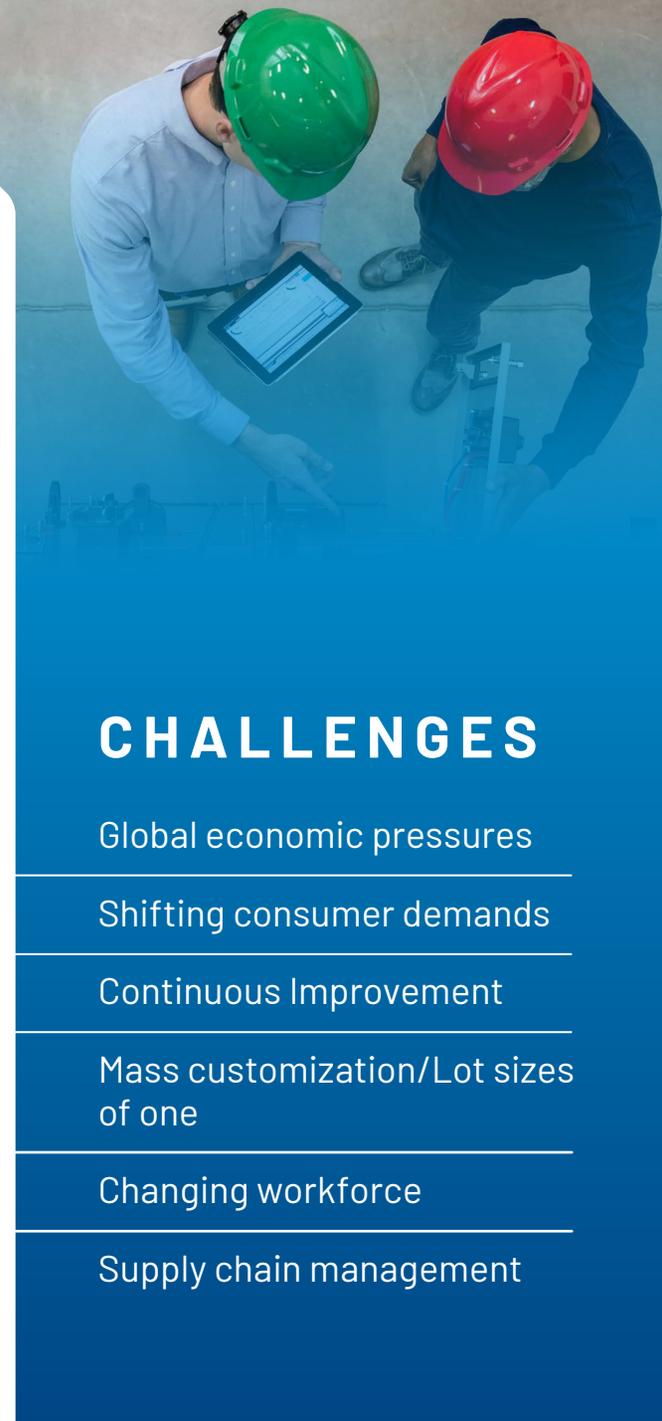
# Stay ahead of the curve and be future-ready

Manufacturers have a strategic imperative to evolve and modernize or lose global competitiveness. With global, economic and social pressures, along with evolutionary trends such as a changing workforce and reshoring - manufacturers are facing unprecedented challenges. The willingness to embrace change and disruption through smart manufacturing is paramount for any organization seeking to stay ahead of the curve and prepare for a resilient future.

Regardless of industry, size or scale, the day-to-day challenges on the factory floor share commonalities - maintaining productivity, quality, low cost, and a skilled workforce. Embracing digital transformation can reshape operations allowing for more agility and responsiveness to meet requirements.

We understand the challenges you're facing because we have them too. It's an ongoing battle to stay on top of your production, meet quality and compliance standards, and maintain tight schedules, all while trying to keep costs down and capacity high. Not to mention the loss of skilled workers to retirement and waning industry attraction. The time is now to take these challenges head on.

While digital transformation may seem daunting, a solid operational foundation from an MES solution and smart strategies can prepare you for quicker adoption, seamless integrations and ultimately growth.



## CHALLENGES

Global economic pressures

Shifting consumer demands

Continuous Improvement

Mass customization/Lot sizes of one

Changing workforce

Supply chain management

# MES: The foundation of your Digital Transformation

**96%**

Maintained on-time delivery

**50%**

Reduced lead time

**38**

Less days in inventory

A Manufacturing Execution System (MES) is the pulse of any manufacturing operation. It is the foundational layer that oversees the production process for transforming raw materials into a finished product, ensuring it's done right the first time. This system is fundamental for achieving complete visibility and control over operations on the plant floor. Rockwell Automation's MES is a platform of components that are designed to meet the unique needs of your environment whether that be single-plant, multi-plant or industry-focused.

Functioning as a basic ecosystem, MES is the epicenter for how to plan, execute, and collect contextualized data in a manufacturing environment. Having strong integration capability with ERP systems, automation layers and apps, MES becomes that bridge between specialty functions and the plant floor for increased efficiency and improved decision making.

As a manufacturer of our own portfolio of hardware products, Rockwell Automation runs MES in all 18 of our own manufacturing plants, serving as a test site for validating performance, perfecting best practices, and as a direct gateway into the product team for feedback and improvements. With a strong delivery infrastructure, we can maximize the value of your MES solution through personalized configuration and support, knowing firsthand how it can transform operations throughout the value chain.

In the pursuit of reaching productivity, quality, compliance and cost-saving objectives, MES ultimately serves as the essential foundation for more efficient day-to-day operations, while also becoming the launch point for digital transformation and future innovation.

# Infuse intelligence into your enterprise with actionable insights



## WIP & Resource Tracking

Better manage raw-material lots, palette load tracking and work-in-progress inventory while accessing subplot-level details.



## Resource Management

Guides what people, machines, tools, and materials should do, and tracks what they are currently doing or have just done



## Utilization

Compares the time equipment is in use versus the time available, including downtime or changeover time and is critical in the decision making processes for scheduling.



## Performance Management

Measure and analyze data continuously to determine key corrective actions required to ultimately reduce OEE



## Maintenance Management

Plans and executes appropriate activities to keep equipment and other capital assets in the plant performing to goal



## Product Tracking & Genealogy

Monitor the progress of units, batches, or lots of output to create a full history of the product

# Take a step toward digital maturity

Stop losing money and time to manual procedures and siloed processes. Move forward with your digital transformation with an MES solution from Rockwell Automation that will revolutionize your production and give you the foundational resources and support.



## Gain visibility & control, fast

What you see, you can track and control. Enable preventative maintenance, improve asset utilization, and drive consistent execution with the critical data and insights that an MES can provide. Extend your visibility across the entire product lifecycle with digitization of the entire process.

## Build a foundation, together

As an industrial manufacturer, we've built unparalleled domain expertise in operational technology across industries. Be confident in the power of our digital transformation software because we've seen it work for our own lines.



# Maximize the potential of your operations

Manage workflows and generate valuable production data that can make your operations more efficient, productive and responsive. Harness that power to not only resolve production issues in the short term, but also transform them into operational advantages in the long term.

## Reliable production

By automating execution processes, MES enhances collaboration, creating an environment in which valuable information is easily shared among plant personnel, other manufacturing systems, and business and supply chain systems in real-time.

## Flexible operations

Collect production data in context, and quickly and easily recognize deviations from performance targets to understand the root causes of operational issues and make informed data-based decisions.

## An empowered workforce

Reduce the risk of mistakes, rework and losses from increased turnover and lack of experience with the standardization offered through MES. Simplify onboarding and training of new employees and drive consistency with digital work instructions.

# Transform your operations with built-in best practices

Achieve operational excellence and continuous improvement by building on validated best practices and breaking down organizational information silos to unite people with systems.



## Scalable, smart manufacturing

Gain insights into your raw materials, equipment, and operators to track what's happening and implement enforceable workflows to make production more consistent.

## Streamlined quality and compliance

Take control of compliance, product safety, genealogy and traceability with better reporting and documentation that helps achieve and demonstrate regulatory compliance and high quality

# Reimagine your future with Rockwell Automation

As an end-to-end digital transformation partner, Rockwell Automation can help you to build a solid operational foundation and prepare you for future integrations and continuous growth. Our MES solution will turn data into actionable insights that are your key to innovation and will give you the competitive advantage you need. Reimagine your future with the support to guide you on your journey to digital transformation.



## Execution

Our MES solution will enforce standard manufacturing processes while continuously monitoring and evaluating production plans to better meet cost, quality, flexibility, delivery and other objectives you wish to meet.

## Actionable insights

Harness the power of contextualized data into your day-to-day operations. Lean on Rockwell Automation's fleet of solutions to manage the advanced analytics and integrations available when data can be accessed through your MES solution.

## Unmatched expertise

With deep industry and technology expertise, our best-in-class delivery teams are equipped to drive your aspirations to reality. With a vast library of solution templates and successful implementations, our team is poised to drive to value at speed and scale.

## Best-in-class ecosystem

Our strategic alliances cover the full breadth of capabilities spanning the IT and OT spectrum. We've integrated our technology stack seamlessly with best-in-class partner solutions to accelerate your time to value.

# Results achieved, now and in the future

Learn more about [Rockwell Automation's MES solution](#)

Connect with us.    

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