



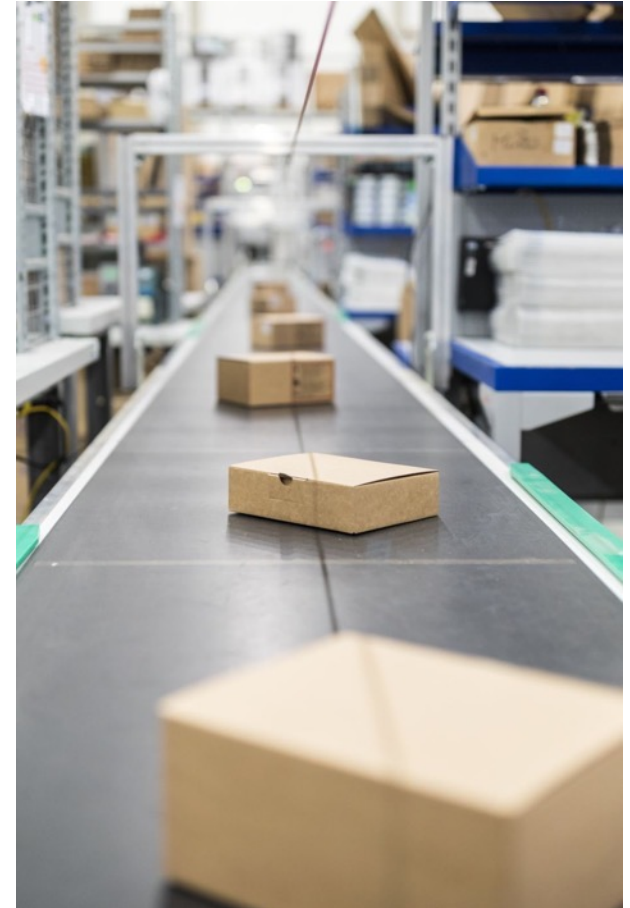
Best Practices

IN MES/MOM
FOR DISCRETE MANUFACTURING

Best Practices In MES/MOM for Discrete Manufacturing

Today's discrete manufacturing companies are digitally transforming their business not only to keep up with competition but to improve their operations. Finding the best solution for your discrete manufacturing business can be overwhelming. Here are ACC's best practices for discrete manufacturers embarking on the journey to digitization.

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Overview

01. Identify Challenges
02. Choose a Platform
03. Collaborate
04. Cultivate Champions
05. Make Metrics Matter
06. Set Your Corporate Initiative
07. Don't Forget Infrastructure



Best Practices

Identify Challenges

Identify specific operational challenges you are seeking to solve or improve upon - machine utilization, product quality, workcell allocation and scheduling, maintenance management etc. Develop a roadmap that tackles the most pressing issues in a target workcell or line first, then extends that use case to other areas and incorporates additional functionality. The proof-of-concept doesn't need to be perfect; it needs to demonstrate value.





02

Best Practices

Choose a Platform

Pick your MES/MOM platform using a selection criteria that addresses not only the most pressing issues but solves other problems as well. MES/MOM applications are inter-dependent; a best-of-breed approach using various products for different use cases can be expensive and require extensive custom interfaces. The market has matured and now offers platforms that address the major use cases – performance, quality, traceability, scheduling, maintenance and workflow – and provide standard interfaces to shop floor control systems that often contain valuable information to be leveraged.

Best Practices

Collaborate

Seek input from the users, especially those who will be relying on the system to make their jobs easier. You need their buy-in to achieve success. Conduct workshops to gather input and requirements, then offer options on how to visually display the data they said they need.



04

Best Practices

Cultivate Champions

Seek out the potential system users who can influence others and promote a performance-based culture. Win them over and ask them for help in promoting your vision. You need cheerleaders.

Best Practices

Make Metrics Matter

In discrete/repetitive manufacturing, metrics related to maintenance MTBF/MTTR and TAKT time measurements are key. Automating the collection of the data that drives these metrics, and the calculations themselves, are a key part of MES/MOM and can provide enormous value. Coupling these metrics with a performance-focused culture can provide incentives and influence behavior. Delivering metrics to users in various formats – large displays on the shop floor, fixed and/or mobile clients – reinforce the message of information-based decision-making.

If the raw data needed for performance metrics is not easily available (ie locked in legacy controllers that lack connectivity tools), seek another path. Sensors with IoT connectivity are widely available, cost effective, and may even be wireless. This is generally the faster and better solution vs. controller migration.



05



06

Best Practices

Set Your Corporate Initiative

Corporate initiatives such as LEAN, right-first-time, zero-defect, and operational excellence can be supported by MES/MOM applications. Craft your proof-of-concept to demonstrate the synergy between your corporate initiative du jour and an MES/MOM solution that delivers measurable, sustainable results.

Best Practices

Don't Forget the Infrastructure

Don't forget the infrastructure. Define the solution hosting requirements (on-premise VM or in the cloud), client hardware, and connectivity. Get your IT folks on-board early.

07





How IXP Can Help

InflexionPoint helps manufacturing companies drive operational improvements and business results through MES/MOM.

A few ways we add value:

- Consulting during planning, requirements definition and platform selection
- Conduct workshops with your users to identify information requirements and functional requirements
- Compile requirements into user stories that define specific needs and objectives
- Advise and plan infrastructure
- Provide Parsec TrakSYS Licenses
- Configuration – we can extend the bandwidth of your in-house team or we can take the lead
- Provide the infrastructure (hardware, licenses, setup) to support the MES/MOM applications
- Provide training and coaching on how to configure, use, and enhance the solution
- Mentoring and coaching of user teams to ensure they are getting the most value from the solution
- Support (variety of support plans for on-call response as well as services to ensure the system continues to run at optimum performance and current technology levels)