Batch Solutions

The Connected Enterprise Helps Address Key Market Challenges
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Today’s dynamic manufacturing climate presents multiple challenges: control costs, mitigate risks, and seize every opportunity to gain a competitive edge. For many companies, this means production areas must drive out inefficiencies that are holding them back with bold approaches. This requires informed decision making, data-driven exposure of inefficiencies, and a tremendous amount of collaboration. Indeed, organizations that embrace today’s rapidly advancing technologies stand to uncover new competitive advantages.

A Connected Enterprise helps you view real-time data on manufacturing processes, compare performance across plants, quickly scale production up or down, and manage energy consumption.

A modern batch solution is a key component of The Connected Enterprise. It helps you meet key market challenges by allowing you to:
• Scale the system to your process needs
• Have more responsive control
• Easily configure your batch system
• Secure critical production information
• Adapt and change as needed

The Rockwell Automation batch portfolio is uniquely positioned to leverage multiple technologies to meet these challenges. It’s time to rethink what a modern batch system can do for you.
Exceed Expectations with Batch Solutions

**Design**
- **Increase efficiency:** Shorten development time and minimize human error with productivity tools
- **Reduce project risk:** Utilize characterized topologies and "best practice" utilities
- **Innovate and accelerate:** Easily adopt mobility and visualization to gain a competitive edge

**Operate**
- **Improve effectiveness:** Easy navigation provides a consistent experience for all users
- **Increase productivity:** Intuitive graphics and multi-language features simplify the system
- **Optimize production and throughput:** Get the most from the equipment with adaptable control strategies

**Quality**
- **Consistency:** Deliver repeatable batches regardless of equipment or material constraints
- **Improve yield:** Quickly determine off-spec material early in production
- **Report with confidence:** Leverage plant-wide information for a complete batch history of the product

**Manage**
- **Security:** Reduce risk with a defense in depth approach of assets and information
- **Control costs and expenses:** Improve knowledge transfer, minimize training, and reduce spare parts inventory with a common plant-wide platform
- **Increase flexibility:** Achieve agility to meet changing production demands or shift schedules
Batch Systems to Meet Your Production Needs

Providing batch solutions that deliver the core capabilities expected from ISA-88 based sequential control with the following differentiating features:

**Scalable and Distributed Batch**
Lower the engineering and maintenance costs of integrating batch management systems with skids with distributed ISA-88 models. This results in a more responsive and reliable system that allows for flexible configurations of vendor supplied equipment that is easily supported.

**Intuitive Operations**
Modern interfaces, workflows, and accessibility features enable operators to focus on production needs instead of navigating the system.
Flexible yet secured access to the system allows for adoption of a batch system in applications that require manual additions, material tracking, and version control of recipes.

**Compliance for Regulated Industries**
System capabilities are tightly integrated with industry standards, support system-wide security and provide traceability functions.
Operate with confidence as the system collects and retains critical activity and signature data that support compliance to regulations such as 21 CFR Part 11.

*These solutions help address common operational challenges such as:*

- **Production Performance**
- **Improved Yields**
- **Quality and Safety Concerns**
- **Fast and Efficient Product Changeover**
Rockwell Automation Batch Offerings

**FactoryTalk Batch**
FactoryTalk® Batch provides efficient, consistent predictable batch processing that supports the reuse of code, recipes, phases, and logic. FactoryTalk Batch combines the ISA-88 standard with proven technology that provides the flexibility ranging from enterprise-wide architectures to complex single-unit applications.

**Benefits**
- Enable consistent, repeatable batch execution
- Achieve agile manufacturing for rapid introduction of new products
- Mobilize your workforce with features that provide simple real-time interfaces for an array of devices

**SequenceManager**
SequenceManager™ provides basic controller-based batch management appropriate for single unit or multiple-independent unit operations. SequenceManager directs programs inside a controller in an ordered sequence for demanding applications.

With SequenceManager, you can deliver fast and reliable execution while reducing infrastructure costs for standalone units. This promotes the delivery of complete skid-based systems that are easy to integrate.

**Benefits**
- Create fast distributed batch response time closer to the process
- Reduce the cost to integrate complex skid structures to plant systems
- Reduce infrastructure cost and software complexity

**Logix Batch and Sequence Manager**
Logix Batch and Sequence Manager (LBSM) is an easily adoptable controller-based batch management appropriate for single-unit or multiple-independent unit operations. LBSM directs application code with a simple configuration from the operator interface. It supports both local and server-client configurations to deliver a consistent user experience.

**Benefits**
- Eliminate the need for engineering intensive custom-coded sequence management solutions
- Reduce delivery time for skid-based batch processing equipment

**Batch Reporting**
Each solution from Rockwell Automation supports commonly used reporting services to present critical production information to help meet key performance goals.

Numerous styles of reports such as: Batch summary, material consumption, traceability, and analysis reports provide reliable and actionable information. Advanced filters and exception based configurations ensure efficient use of time and resources to streamline operations.

**Benefits**
- Easy configurations allow for a high degree of customization specific to your needs
- Direct access to data reduces the amount of qualified systems required for regulatory compliance
Driven By Industry

Our batch solutions are based on industry-accepted batch standards such as ISA-88, which defines equipment, routing, procedure, formulation, and control. Our solutions help you apply this functionality consistently in a broad range of industries to meet ever increasing demands.
Services and Solutions
A World of Experience

Our Global Value
Across industries and processes, companies can leverage our global experience and the resources within our PartnerNetwork to tailor solutions and services capabilities to meet their needs.

Rockwell Automation understands that a profitable, safe and sustainable operation is a primary goal for companies. We offer industry and technology-specific expertise to address unique production challenges.

Our commitment is to help reduce project risk and provide solutions specific to the companies we support—executed globally and supported locally.

Protect Your Investment
By leveraging our global infrastructure of support centers and subject matter experts, we’re here to help protect our customers’ automation investment. Beyond providing peace of mind, as we help keep plants running, we’ll assess entire operations and recommend the right mix of services to help maximize productivity, optimize plant assets and improve the overall financial performance.

Reducing Risk and Creating Value Throughout Your Production Lifecycle

Feasibility & Conceptual Studies
Front End Engineering & Design
Design & Engineering
Installation & Commissioning
Operation & Maintenance
Upgrades & Migrations

For more information about our Batch Solutions, please visit:
www.rockwellautomation.com/process