

### **FACTORYTALK PRODUCTIONCENTRE**

Application Solutions for Manufacturing



# FACTORYTALK A COMPLETE PRODUCTION MANAGEMENT SOLUTION

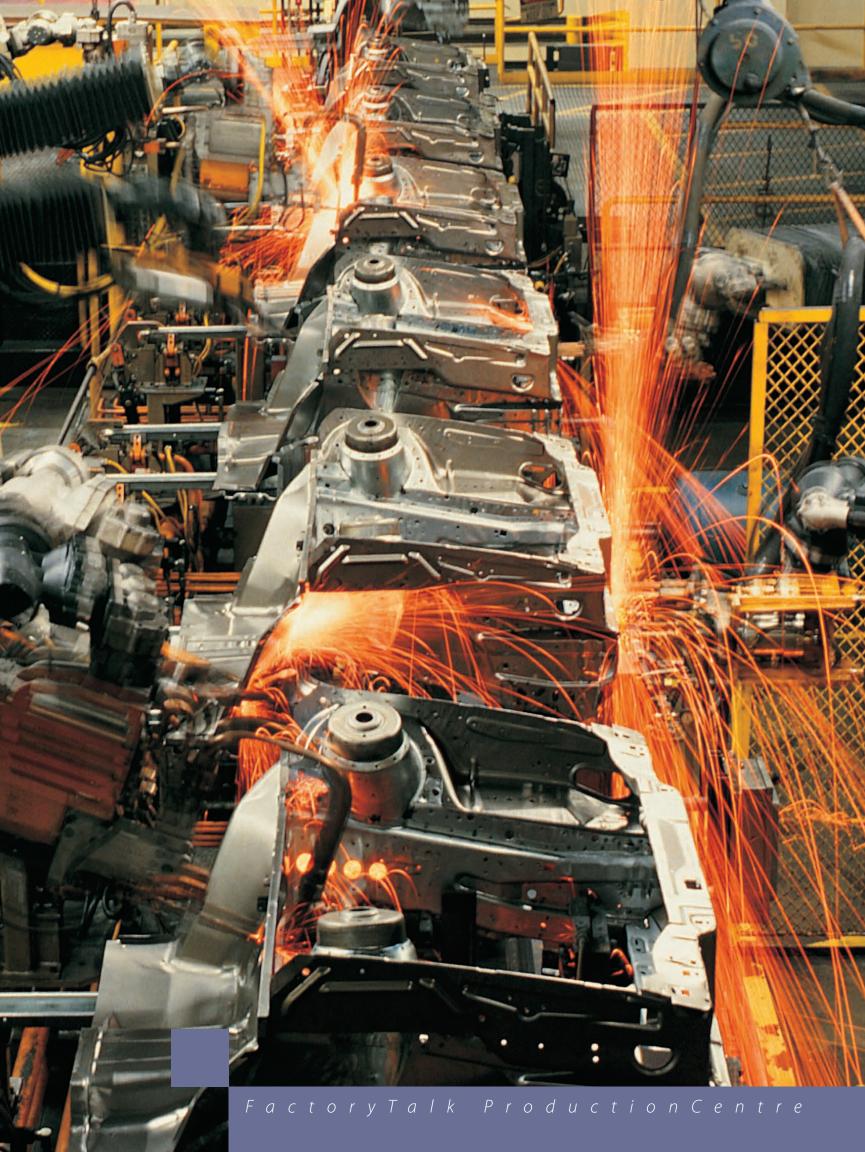
Bring measured improvements in control and performance to your production management environment with Rockwell Software FactoryTalk® from Rockwell Automation.

The modular, integrated FactoryTalk ProductionCentre software suite delivers comprehensive production management functionality plus highly developed decision support tools that address the most demanding manufacturing environments • Improve your control over quality, speed and waste • Create a flexible real-time production environment • Manage capacity and cycle time for efficient growth • Automate records management • Evaluate value-add versus non value-add functions • Analyze overproduction, excessive inventory, faulty processes and more.

How? By reducing human error and increasing paper-less tracking throughout your entire production environment, including: supplier management, manufacturing, quality control, and returns and complaint handling.



The FactoryTalk ProductionCentre application suite offers a flexible, configurable approach to managing product quality, manufacturing speed and waste, while allowing for growth and unprecedented records keeping management.



### FACTORYTALK PRODUCTIONCENTRE CREATES A FLEXIBLE SOLUTION SUITE

You want to make world-class products at competitive prices. FactoryTalk® ProductionCentre helps make it happen:

- Improve quality while reducing cost of quality.
- Realize the efficiencies of global operational standards.
- Reduce the cost of regulatory compliance and minimize the impact of recalls.
- Accelerate time-to-volume for new products.
- Information-enable your Six Sigma and lean initiatives.
- Reduce manufacturing cycle times and excess inventory.
- Collaborate for better customer service.
- Share real-time data on quality and shop floor status.

### THE COMPETITIVE LANDSCAPE

Collaborative systems are a hallmark of industry leaders in today's competitive global environment. Enterprise resource planning (ERP) systems transformed the loosely coupled business applications landscape into a sophisticated, integrated knowledge management tool. Extending that same strategy into the production environment requires a unique blend of manufacturing-focused applications and expertise. Companies that want to compete in an increasingly global marketplace recognize the need to reassess their manufacturing information strategy for production management systems.

Rockwell Software combines an unparalleled understanding of the manufacturing automation environment with the needs of manufacturing information technology to deliver a multi-industry, integrated and modular manufacturing execution software solution set that supports both discrete and hybrid production processes.

FactoryTalk ProductionCentre is a mission-critical platform for industry applications requiring real-time production management. Synchronize real-time production data with enterprise resource planning information, and sustain plant operation even if a security event isolates your ERP system from your sites.

A core Platform Server and optional modules offer out-of-the-box support for key industry applications:

- Shop Operations and Quality: Track and control production,
  while supporting dynamic work-flow based routings; maintain
  complete device, as-built and batch history records. Monitor
  out-of-bounds conditions in real-time, and manage rework
  and defects.
- CAPA and Complaint Handling: Provide an electronically stored closed-loop process management system with enterprise-wide access for Corrective Action/Preventive Action and Complaint Handling. Create a comprehensive event audit trail with electronic signatures and approvals. Analyze root cause and failures; deliver compliance and regulatory reporting.
- RMA Management and Repair: Enable superior customer service in a timely fashion with easy access to unit or lot history – including parts used and previous repair history.
   Track and manage factory and field repair orders with multiple return scenarios.
- Supplier Management: Facilitate complex supply chain management and worldwide visibility. Capture test and measure data. Evaluate supplier quality.

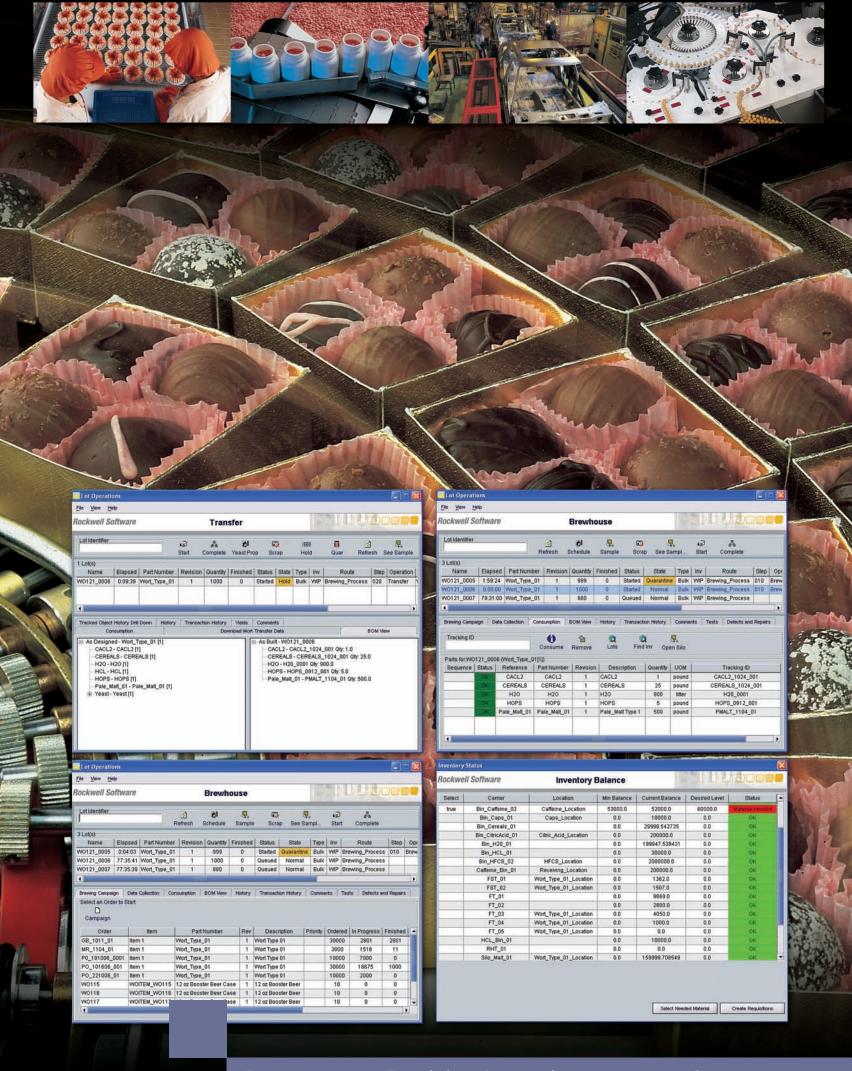
### THE TECHNOLOGY ADVANTAGE

Designed to leverage existing networks and systems, FactoryTalk ProductionCentre uses a three tier J2EE architecture that operates independent of the operating system on Windows, Solaris, or Linux. This approach optimizes access to real-time data, while improving performance of operational knowledge stores and analysis functions. It is a flexible, secure and scalable system for a single site or an entire, multi-site enterprise. Some key benefits include:

- Each site maintains its own data.
- Enterprise roll-up maintains site ID data.
- Manufacture at one site, but handle repairs at a different location.
- Reporting at site or enterprise level-or both.
- Load balancing and clustering support with the application server at each site.



FactoryTalk ProductionCentre establishes a mission-critical platform for industry applications focused on real-time production management.



### FLEXIBLE ARCHITECTURE

A unique dual-client architecture allows FactoryTalk ProductionCentre to deliver Java and http/https client and scripting simultaneously. This supports deployment of the same content in Java and HTML for fast and slow networks, as well as pocket wireless devices. Supported system platforms include WebSphere, WebLogic, JBoss, Windows and Solaris. Reporting is swift, accurate, and presented in an actionable format. Role-based access supports decision making, as well as secure internal and external report distribution. It uses the FactoryTalk service oriented architecture (SOA) to share information easily with other FactoryTalk enabled applications and hardware, as well as third party or legacy systems.

Lower costs, improve quality, and increase productivity, on one flexible platform. FactoryTalk ProductionCentre is an enterprise-wide plant information software solution that drives manufacturing excellence. Converting day-to-day operations data into on-demand business knowledge enables unprecedented manufacturing flexibility. Combining automated asset, resource, supplier, complaint and quality management, with track and trace from cradle to grave delivers true visibility and better control of the manufacturing process.

### **SHOP OPERATIONS AND QUALITY**

Today's highly competitive global market demands operational excellence as the price of survival. The Shop Operations module tracks production information while controlling production. Systematically enforcing manufacturing rules eliminates operator guesswork and ensures consistent GAMP (generally accepted manufacturing process) adherence. Support for dynamic work flow-based routings enables complete device, as-built and batch history records.

Managing errors is easier using rule-based notification of SPC violations, acceptance sampling plans, and real-time SPC charts. Defective units or lots are automatically re-routed for repair and remain in the tracking system.

This Shop Operations module enhances production flexibility, while creating one source of information for production decisions. For instance, by tracking inventory and equipment performance, informed decisions can easily be made about scheduling.

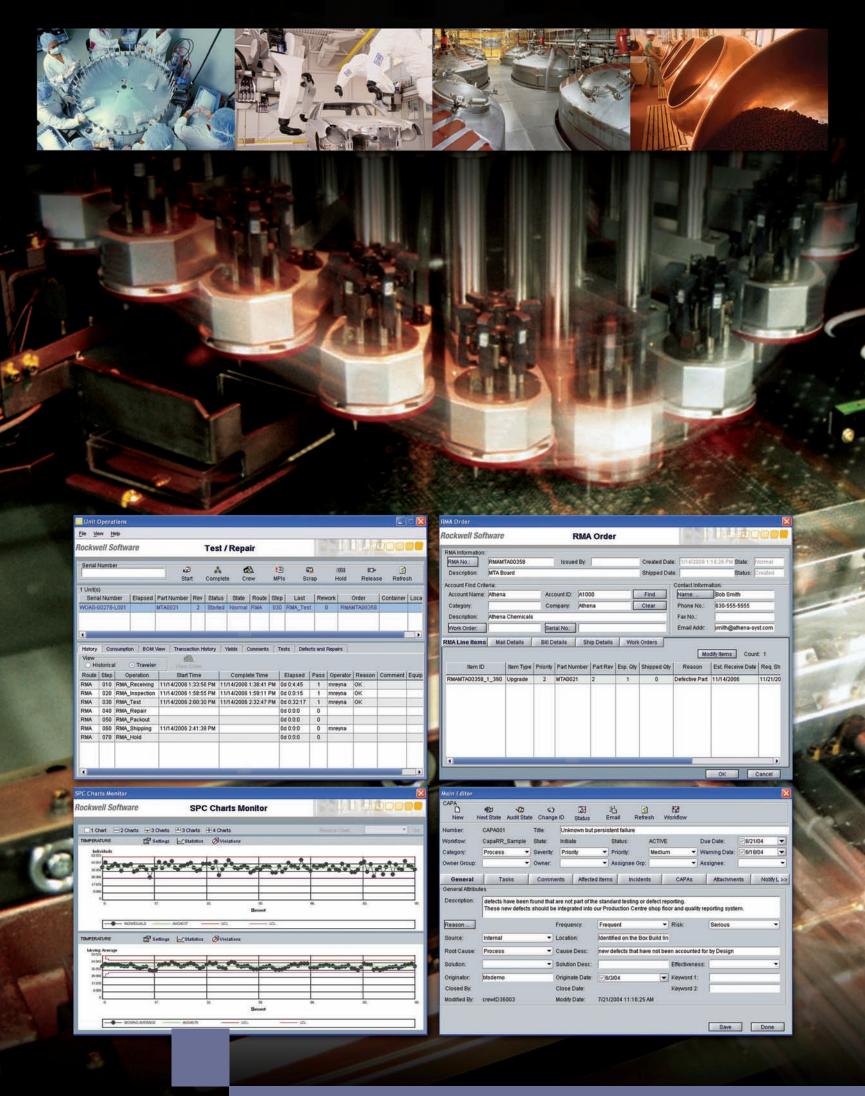
- Work Order Management provides an electronic "white board" for simplified planning and sequencing of work orders. "What if" capabilities facilitate proactive management of order due-dates and resources, compares actual to planned schedules, and highlights late orders.
- Track and Trace enables work-in-progress tracking at a serialized
  unit, lot (including splits and merges), or work-order level.
  Complete device and batch history records including operations,
  operators, equipment, components, test results, defects and
  rework. Support is provided for RFID, bar code scanning and
  direct integration to equipment.
- Production Inventory tracks location and quantity of raw-inprocess (RIP) components issued to the shop floor. It triggers request for components to stores or suppliers, and facilitates Kanban execution through bin tracking and min/max replenishment.
- Error Proofing manages acceptance sampling plans, shop floor
  quality checklists, and testing reports including process capability
  indexes and real-time SPC charts, and variable and attribute
  control charts.
- *Production Performance* defines equipment model by site and tracks uptime and utilization.

### REPORTING, ANALYSIS AND DATA MANAGEMENT

Analysis and reporting tools can integrate enterprise alerting, reporting, analysis and dashboards to deliver decision support directly or through other business systems or portals. Operational content is easily arranged for rapid identification and root cause analysis of key performance issues across a plant or enterprise. Other powerful features like Operator Certification and Engineering Change Order Manager allow even greater control to meet manufacturing goals.



The FactoryTalk ProductionCentre Shop Operations module tracks product and order information, improves production control, and enforces consistent manufacturing processes.



### **CAPA AND COMPLAINT HANDLING**

Managing complaints and regulatory compliance is crucial to product quality and customer service. This module helps you reduce the cost of quality by delivering a secure electronic closed-loop process management system with enterprise-wide access. It generates a comprehensive events audit trail including electronic signatures and approvals, helps analyze root cause of failures, and delivers regulatory compliance reporting. Compatible with highly regulated industries, the system enables accuracy and reliability – even an unregulated supplier can provide their customers with accurate information regarding conformance immediately.

- CAPA Corrective Action/Preventive Action offers configurable
  work flows for corrective action creation and routing. Full audit
  logs and built-in enforcement of security rules enable a 21 CFR
  Part 11 compliant environment. Comprehensive product or
  order genealogy enables detailed root cause analysis.
- Complaint Management Process facilitates rapid, accurate responses to customers on all product issues. Expedited resolution processing means less time spent on issue management. Provides work flow for reportable events and to meet complaint or FDA reporting requirements. Designed to reduce the risk of FDA and QSR noncompliance.

### RMA MANAGEMENT AND REPAIR

Delivering on the promise of customer service is a number one priority for maintaining your key business relationships. Rapid access to unit or lot history, including parts used and previous repair history, imparts valuable upstream and downstream knowledge about your production environment, suppliers and shipping. This RMA module helps internal and external facing repair organizations better manage factory and field repair orders, and delivers real-time knowledge about a product's history.

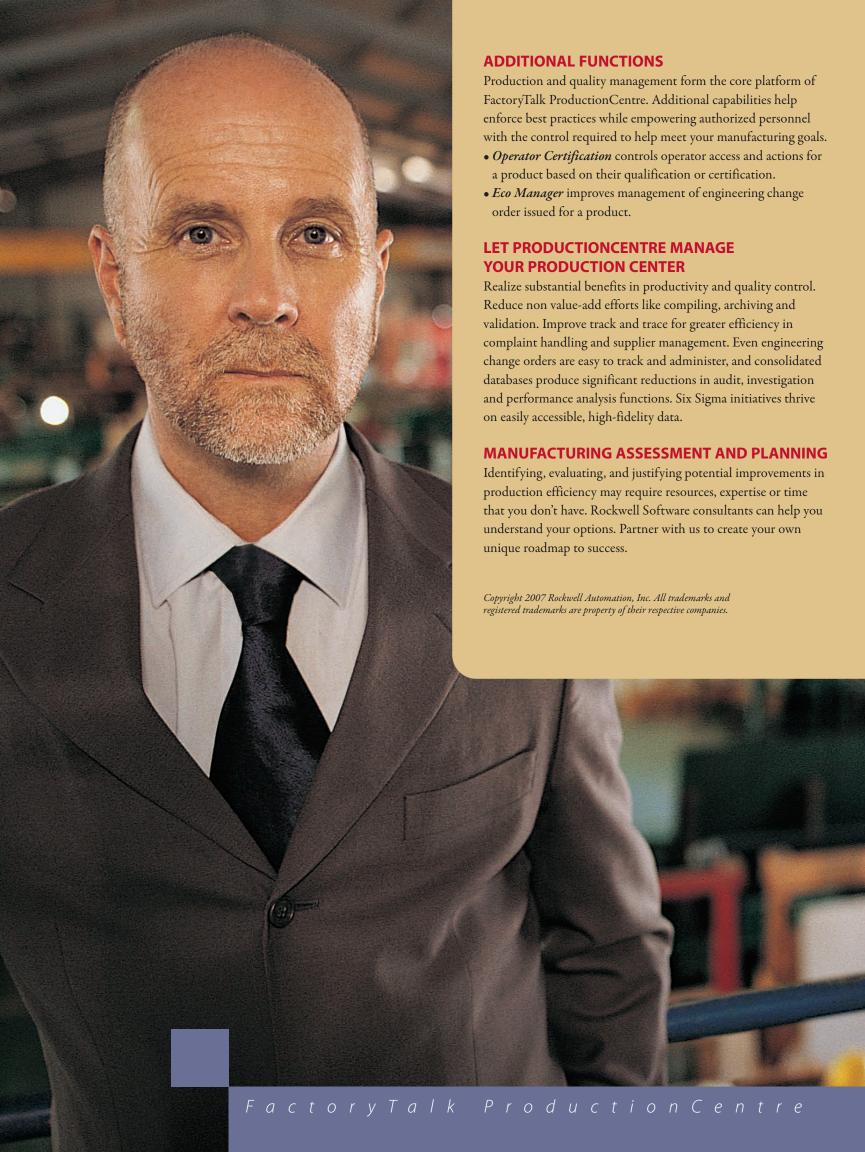
- Control RMAs issued for factory and field repair orders with
  multiple return scenarios including advanced exchange, return to
  factory, depot repair, return for credit, and upgrade. The module
  tracks return RMA verification against repair work orders and
  repair status, as well as shipment back to the customer.
- Comprehensive Repair Data enables root cause identification and provides "most common" repairs for a given defect based on past repair history. The module provides field failure feedback for continuous improvement of current and future products. It calculates RMA metrics such as aging, average turnaround time, and spare part consumption. All of this is added to product "as-built" and "as-maintained" history, no matter where the unit was previously built or repaired.

### **SUPPLIER MANAGEMENT**

Supply chains are more complex than ever, yet many manufacturers still rely on outdated systems and institutional memory to manage supplier quality. The Supplier Management module provides visibility and traceability across suppliers, as well as the entire manufacturing process; this includes subcontracted manufacturing and capturing test and measurement data to evaluate supplier quality. Issue shop floor requisitions for materials, quality audit vendors with testing, and generate a desired statistical sampling rate based on supplier history. Implement standard sampling plans such as ANSI or Dodge. Full traceability of supplier components reduces the time required for root cause analysis and recall management. The module includes supplier part management and cross-referencing capabilities. Collaboration with the CAPA module provides Supplier Corrective Action Requests (SCAR).



Reporting on live transactional data enables real-time response and alerting, while reporting against historical data helps manufacturers analyze trends and identify root causes. Multi-site global manufacturers can aggregate and roll-up data across multiple sites to provide corporate analytics.





Rockwell Automation is a recognized leader in software solutions that help leading manufacturers achieve operational excellence. Headquartered in Milwaukee, Wisconsin, Rockwell Automation serves manufacturers in high-tech, life sciences, industrial, automotive and other industries. To learn more about the Rockwell Automation product suite and industry-specific solutions, please call (414) 382-2000, or visit us online at www.rockwellautomation.com.

## Factory Talk Production Centre





### INTEGRATED PRODUCTION AND PERFORMANCE SUITE

### **Design & Configuration**

Integrated environments for creating, modeling, and programming your production processes.

### **Production Management**

Real-time coordination across your plant-wide production processes.

### **Data Management**

Tools and methods to use for collecting, transforming, and integrating production information.



### **Quality & Compliance**

Helps ensure operational processes and procedures meet standards or specifications.

### **Asset Management**

Helps optimize maintenance and plant operations to improve your resource availability.

### **Performance & Visibility**

Presents a window into the process so you can make better decisions.

### www.rockwellautomation.com

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