Production Management

Production management is challenging without the right tools. Acumatica helps manufacturers respond with flexibility to adapt to ever-changing schedules, unplanned breakdowns, late supplier deliveries, and other exceptions.

- **Tag Production Orders to Sales Orders for MTO manufacturing environments**
- **Build to stock with MRP for MTS environments**
- **Gain insights into production order status, including real-time job costs**

Key business benefits

- Coordinate labor, machines, and inventory, and optimize your company's processes.
- Streamline outside processing for vendor shipments and costs.
- Substitute operations and materials on a production order.
- Assign lot and serial numbers using purchase receipts, inventory issues, and manufacturing transactions.
- Gain insights into production order status and work in process (WIP).

Related resources

- Prepare for the Factory of the Future > LEARN MORE
- Understanding Manufacturing Job Costing > LEARN MORE
- Schedule a Personalized Demo > LEARN MORE

Take Control Over Production Costs and Schedules with Automation and Real-Time Manufacturing Insights

Create production orders from bills of material and routing standards. Release and schedule production orders. Manage outside processes and track materials and labor costs for work in process (WIP) with AI-powered production cost variance anomaly detection and detailed cost analysis reports, inquiries, and dashboards. Gain valuable insights into production with real-time dashboards, flexible Generic Inquiries, and dozens of personalized reports, such as the Production Order Labor Efficiency Report.

PRODUCTION ORDER MANAGEMENT

Production is the heartbeat of every manufacturer. Acumatica Manufacturing Edition streamlines and automates production planning with flexibility to adapt to real-life changes in real-time.

- Create production orders to fulfill customer demand from sales orders or through the material requirements planning (MRP) application.
- Release and schedule production order operations for shop floor employees.
- Capture manufacturing material, labor, machine, tool, overhead, and outside process costs for real-time work in process (WIP) reporting and analysis.
- Monitor production orders from the configurable production dashboard.
- Project-centric manufacturers create production orders directly from tasks in the optional project accounting application.
- Maintain complete traceability throughout the lifecycle of the item with lot and serial tracking and user-defined attributes.

"We can now handle different revisions and make sure that production is producing the right order, and compare it to the revision and see if there are any differences."

—Austin Pleasants, Product Engineering Manager, Q-PAC Systems, Inc.

> CUSTOMER STORIES

Critical Materials

View production order shortages. Create purchase and production orders on a single screen for the parts that are in short supply.

Labor Tracking

Capture direct manufacturing labor for production orders by employees. Enter non-production time using indirect codes and enter labor directly from the Production Order screen.

Backflushing

Eliminate reporting by backflushing labor or material when reporting the production quantity completed, which is useful when a company only wishes to record the production quantity.

Material Tracking

Issue stock and non-stock materials and parts to a production order. Capture lot and serial numbers on controlled items.

Production Performance

Monitor and manage performance with AI-powered cost variance anomaly detection and detailed reports, including actual versus standard/planned costs, along with labor, material, machine, tool, fixed, and variable overhead details.

Production Order Changes

Manufacture to prior or alternate bills of material revisions, substitute operations, and materials as desired.

Production Control Points

Streamline data entry to define required milestone operations for production reporting and backflushed operations.

Lot and Serial Tracking

Maintain complete lot and serial traceability throughout the item's lifecycle. Capture lot and serial numbers at the time of purchase receipts, inventory issues, and shop activity transactions.

Barcode Integration

Use barcode data collection to record labor and material transactions, as well as inventory transactions such as issues, receipts, cycle counting, and physical inventory.

Multi-Site

Support multiple sites and have the flexibility to have an alternate BOM/Routing for each site.

Related Production Orders

Enhance material planning and visibility into related production orders by automatically or manually linking dependent subassembly orders to finished goods orders, utilizing order number conventions to identify related orders. For example, a parent finished good may have an order number of 10000 with dependent child orders numbered 10000-01 and 10000-02, respectively. Schedulers benefit from improved finite scheduling logic, which considers interdependencies and optimizes resources with notifications for schedule conflicts.

Prevent Over Completion

Prevent production order operation mistakes related to over-completion of quantities by production order operation for improved costing and material planning.

Outside Processing

Align purchase order request dates with production operation start dates for outside process operations. Streamline outside processing for vendor shipments and cost transactions related to purchased and subcontracted services, like heat treating, painting, coating, or assembly. Know what to do when parts are received back from the supplier, with automated movement back into WIP, providing transparency into production orders and operation details during inventory receipt processes.

Pre-Assign Lot/Serial Numbers

Create and preassign lot and serial numbers for finished goods using configurable number masking. Optionally enforce finished good lot and serial selection when controlled components and raw materials are issued to production to retain one-to-one traceability for multi-quantity production runs. An allocation screen provides after-the-fact matching for component lot and serial numbers with finished goods lot and serial numbers. Improve quality and streamline inventory management with user-defined lot or serial attributes.

Production Dashboards

Monitor production in real-time with the production manager and production meeting dashboards to gain insights into work center utilization, work queues, order status, past-due operations, late orders, and work-in-process (WIP).

Side Panels

Save time with side panels that provide access to production order details, customers, bill of materials, sales orders, projects, and project tasks, all without leaving data entry screens.

Multiple Base Currencies

Manage international production costs with multiple base currencies for flexible and accurate financial reporting.

Optional Quality Management

Ensure product quality with the optional Quality Management Suite (QMS) for Acumatica. Define and perform quality tests during production with certificates of analysis (COA), non-conformance (NC) tracking, and corrective and preventative action (CAPA) plans.

Cost Accounting Controls

Streamline setup and enhance cost control with the Manufacturing Cost Accountant user role and optional production order lock status. Locked production orders prevent additional manufacturing transactions from being entered while cost accountants review or adjust transactions before posting finished goods to inventory, clearing work-in-process, and updating financial transactions to the General Ledger.

Non-Sequential Production Reporting

Provide workers with the flexibility to report production operations out of sequence and simultaneously report multiple operations.

Event Audit Trail

Trace all production order activities (events), including event descriptions, dates, times, and user IDs.