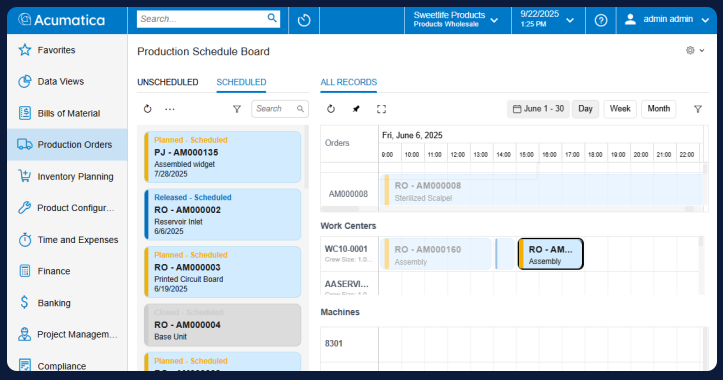
Acumatica
The Cloud ERP

DATASHEET · MANUFACTURING

Advanced Planning and Scheduling

Maximize resources, relieve bottlenecks, and increase throughput with finite capacity scheduling strategies and flexible production scheduling tools.



Manage and monitor your shop floor schedule and work center capacity

Acumatica Manufacturing Edition's Advanced Planning and Scheduling (APS) allows manufacturers to consistently and cost-effectively meet customer demands by setting accurate and reliable delivery dates based on finite resource availability. Optimize manufacturing production by managing resource constraints, including materials, production capacity, process sequences, tooling, and facility schedules.

Advanced Planning and Scheduling software offers essential planning capabilities, real-time production insights, and the ability to schedule employee and machine resources accurately. It enables you to determine the requirements for materials and capacity, while ensuring the efficient use of production assets.

Schedule production orders forward or backward, planning against the production calendars, shifts, breaks, holidays, and efficiencies your shop actually runs on. Updated operation dates, sequencing, and material impacts surface as you schedule, so planners can see when a job will truly finish, keep constrained work centers from getting buried, and push more work through the same capacity.

When priorities shift, rerun the schedule instead of rebuilding it in spreadsheets. And when someone asks where their order stands, AI Assistant answers with schedule performance, material needs by relevant production order, and production order risk.

Key business benefits

Maximize throughput by optimizing machine, work center, and tool schedules.

Improve the customer experience with Capable-to-Promise dates based on capacity, lead times, and material availability.

Relieve bottlenecks by identifying bottleneck operations and resources.

Commit to dates you can hold by scheduling against real calendars, shifts, and efficiencies.

Related resources

Prepare for the Factory of the Future

LEARN MORE →

Multi-Modal Manufacturing with Acumatica

LEARN MORE →

Schedule a Personalized Demo

LEARN MORE →

Finite and infinite scheduling

Combine finite and infinite capacity logic within a single production order to know how much work can be produced in a given timeframe.

Rough-cut capacity planning (RCCP)

Verify you have sufficient capacity available to meet the requirements of your master schedule.

Capable-to-Promise (CTP)

Calculate availability dates for manufactured items from sales orders and quotes.

Visual scheduling

See production order operations on a graphical schedule by work center and machine, for one order or all.

> "We were running blind before. Now, we can see volume, location, type of product, and managers can prepare and put new orders into the production schedule."
>
> – Tim Patton, ICT Director, SAM

> CUSTOMER STORIES

Capabilities

Plan, schedule, and monitor production against real resource constraints — in the same system as your inventory, sales, and financials.

Resource capacity

Use rough-cut capacity planning (RCCP) to plan, monitor, and manage work center, machine, tool, and labor capacity. Finite scheduling considers operation durations based on crew sizes and labor efficiency, and plans against the production calendars, shifts, breaks, holidays, and efficiencies your shop actually runs on.

Finite and infinite scheduling

Schedule production orders forward or backward, combining finite and infinite capacity logic within a single production order. Updated operation dates, sequencing, and material impacts surface as you schedule, and you can rerun the schedule as priorities shift.

Rough-cut capacity planning (RCCP)

Schedule open production orders against finite capacity constraints, optionally releasing selected orders. Orders load in sequence by priority, constraint dates, and order number, considering material availability and supply orders. Planners may exclude planning orders to focus on actual production.

Capable-to-Promise (CTP)

Determine how many units will be available by a specified date, or calculate availability dates based on finite capacity, material availability, and vendor lead times. Access CTP from sales orders to set realistic promise dates during order entry.

Scheduling utilities

Filter production orders by sales order, scheduling status, and other criteria. Identify work center and machine capacity with built-in histograms and a color-coded schedule.

Visual schedule board

View scheduled operations against work centers and machines for individual production orders or all orders simultaneously.

Scheduling changes

Adjust constraint dates and priorities and firm schedules directly from the visual schedule board.

Dispatch lists

Dispatch reports show scheduled orders and operations by work center and machine, plus required resources.

Firm schedules

Lock in planned production operations for work centers and machines.

Queue, finish, and move time

Improve precision by defining non-production time for operations that require cooling, drying, or movement to subsequent operations such as outsourced services.

Schedule views

Work center summaries and master views give schedulers, planners, and customer service one view of capacity, operational schedules, and dependent child orders, so delays surface early.

Real-time insights

Shop floor data feeds dashboards, Generic Inquiries, and Business Events that flag scheduling issues. AI Assistant answers questions on schedule performance and order risk.

ABOUT ACUMATICA

Acumatica Cloud ERP is a comprehensive business management solution that was born in the cloud and built for more connected, collaborative ways of working. Designed explicitly to enable small and mid-market companies to thrive in today's digital economy, Acumatica's flexible solution, customer-friendly business practices, and industry-specific functionality help growing businesses adapt to fast-moving markets and take control of their future.

For more information on Acumatica, visit **www.acumatica.com** or follow us on **LinkedIn**.

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