

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 provides essential planning capabilities, real-time insights into production, and the ability to accurately schedule employee and machine resources. It allows you to determine requirements for materials and capacity while providing efficient use of production assets.

FINITE CAPACITY SCHEDULING

Know how much work can be produced in a given timeframe, considering limitations on various resources and demands.

ROUGH CUT CAPACITY PLANNING (RCCP)

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

CAPABLE TO PROMISE (CTP)

Access Capable to Promise (CTP) from sales orders and quotes to calculate availability dates for manufactured items considering capacity constraints, material availability, and vendor lead times.

WORK CENTER UTILIZATION

Compare the available hours for a work center to the actual hours scheduled for a work center.

Work Center	Order Type	Production Item	Status	Operation ID	Order Description	Qty to produce	Qty Complete	Qty Scrapped	Start Date	End Date	Inventory ID	Dispatch Priority
WCS10	BO	AM000007	Planned	0010	Assembly	0.00	0.00	0.00	1/21/2020	1/21/2020	AMKCU0045	5 K
WCS10	BO	AM000009	Planned	0010	Assembly	0.00	0.00	0.00	11/17/2019	11/17/2019	AMKCU0045	5 K
WCS10	BO	AM000011	Planned	0010	Assembly	0.00	0.00	0.00	11/11/2019	11/11/2019	AMKCU0045	5 K
WCS10	BO	AM000012	Planned	0010	Assembly	0.00	0.00	0.00	11/8/2019	11/8/2019	AMKCU0045	5 R
WCS10	BO	AM000014	Planned	0010	Assembly	0.00	0.00	0.00	11/8/2019	11/8/2019	AMKCU0045	5 F
WCS10	BO	AM000019	Planned	0010	Assembly	0.00	0.00	0.00	11/11/2019	11/13/2019	AMKCU0045	5 A
WCS10	BO	AM000017	In Process	0010	Assembly	20.00	5.00	0.00	11/11/2019	11/11/2019	AMKCU0045	5 S
WCS10	BO	AM000038	In Process	0010	Assembly	10.00	0.00	0.00	2/26/2020	2/26/2020	AMKCU0045	5 K

Access schedules for work centers, machines, and tools with dispatch lists providing details related to scheduled production orders.

KEY BENEFITS

COORDINATE ACTIVITIES

- Manage your entire business with complete real-time information on your operations
- Coordinate labor, machines, and inventory and optimize your company's processes

IMPROVED CUSTOMER EXPERIENCE

- Improve the customer experience by empowering customer service and sales representatives with Capable-to-Promise (CTP) functionality to calculate realistic delivery dates for items on quotes and sales orders based on capacity constraints, vendor lead times, and material availability.

STAY ON ONE PLATFORM AS YOU GROW

- Adapt the software to your changing needs
- Leverage powerful features and functions for multiple production environments

DEPLOYMENT OPTIONS

- Get Acumatica as a subscription (SaaS) or purchase the license. Deploy on-premise, on a hosted server, or on a Cloud platform

ADVANCED PLANNING AND SCHEDULING FEATURES AND CAPABILITIES

- Work Center Capacity Planning** Enables the system to plan, monitor, and provide details regarding the work center.
- Rough-Cut Capacity Planning (RCCP)** RCCP schedules open production orders against finite capacity constraints. Optionally, the orders selected can be released. Orders are loaded and scheduled in sequence based on priority, constraint dates, and production order numbers. The availability of material is considered including supply orders such as purchase orders, transfer orders, or component production orders. Planners may exclude planning orders from RCCP to focus only on actual production orders.
- Capable to Promise (CTP)** Use Advanced Planning and Scheduling to determine how many units of an item will be available by a specified date or calculate availability dates for a quantity of items based on finite capacity constraints, material availability, and vendor lead times.
- Dispatch Lists** Utilize work center and machine dispatch reports for a clear view of currently scheduled production orders and operations. View reports identifying required resources for scheduled production orders.
- Machine Scheduling** Allows the user to schedule specific machines only when both the machine and the employee running it are available.
- Tool Scheduling** Schedule production against finite tooling constraints such as dies, jigs, molds, or fixtures.
- Work Center Capacity Planning** Plan, monitor, and manage work center capacity using rough cut capacity planning with finite scheduling for operation durations based on crew sizes and labor efficiency.

The screenshot shows the Acumatica 'Rough Cut Planning' interface. It features a search bar at the top, navigation tabs for 'SCHEDULE' and 'SCHEDULE ALL', and a table of production orders. The table includes columns for Release Orders, Qty to Produce, Qty Remaining, UOM, Order Type, Production Nbr, Inventory ID, Description, Dispatch Priority, Constraint, Start Date, End Date, Scheduling Method, Warehouse, and Orc. The table lists various items such as Sterilized Scalpel, Keurig Model 450, Reservoir Inlet, Base Unit, Printed Circuit Board, and Assembled widget.

Release Orders	Qty to Produce	Qty Remaining	UOM	Order Type	Production Nbr	Inventory ID	Description	Dispatch Priority	Constraint	Start Date	End Date	Scheduling Method	Warehouse	Orc
<input type="checkbox"/>	1.00	1.00	EA	RO	AM000001	AMTOOLOSP	Sterilized Scalpel	5	11/7/2019	11/7/2019	11/7/2019	Start On	WHOLESALE	11
<input type="checkbox"/>	1.00	1.00	EA	RO	AM000003	AMTOOLOSP	Sterilized Scalpel	5	11/7/2019	11/7/2019	11/7/2019	Start On	WHOLESALE	11
<input type="checkbox"/>	1.00	1.00	EA	RO	AM000006	AMTOOLOSP	Sterilized Scalpel	5	11/8/2019	11/8/2019	11/8/2019	Start On	WHOLESALE	11
<input type="checkbox"/>	20.00	20.00	EA	RO	AM000007	AMKEURIG...	Keurig Model 450	5	1/21/2020	1/21/2020	1/21/2020	Finish On	WHOLESALE	11
<input type="checkbox"/>	15.00	15.00	EA	RO	AM000009	AMKEURIG...	Keurig Model 450	5	11/7/2019	11/7/2019	11/7/2019	Finish On	WHOLESALE	11
<input type="checkbox"/>	10.00	10.00	EA	RO	AM000011	AMKEURIG...	Keurig Model 450	5	11/11/2019	11/11/2019	11/11/2019	Start On	WHOLESALE	11
<input type="checkbox"/>	10.00	10.00	EA	RO	AM000012	AMBRESVINT	Reservoir Inlet	5	11/10/2019	11/8/2019	11/9/2019	Finish On	WHOLESALE	11
<input type="checkbox"/>	10.00	10.00	EA	RO	AM000013	AMBASE	Base Unit	5	11/7/2019	11/7/2019	11/7/2019	Finish On	WHOLESALE	11
<input type="checkbox"/>	10.00	10.00	EA	RO	AM000014	AMPCEB	Printed Circuit Board	5	11/10/2019	11/8/2019	11/10/2019	Finish On	WHOLESALE	11
<input type="checkbox"/>	10.00	10.00	EA	RO	AM000015	AMBASE	Base Unit	5	11/7/2019	11/7/2019	11/7/2019	Finish On	WHOLESALE	11
<input type="checkbox"/>	50.00	50.00	EA	RO	AM000016	AMWIDGET	Assembled widget	5	11/11/2019	11/11/2019	11/15/2019	Start On	WHOLESALE	11
<input type="checkbox"/>	20.00	15.00	EA	RO	AM000017	AMCON009	Stainless Cap Hob - Straight...	5	11/11/2019	11/11/2019	11/11/2019	Start On	WHOLESALE	11
<input type="checkbox"/>	1.00	1.00	EA	RO	AM000027	AMTOOLOSP	Sterilized Scalpel	5	11/13/2019	11/13/2019	11/13/2019	Start On	WHOLESALE	11

Production Management – Rough Cut Planning

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