



MATERIAL REQUIREMENTS PLANNING (MRP)

BALANCING SUPPLY AND DEMAND IS CRITICAL TO MANUFACTURERS. MRP IS A POWERFUL PLANNING TOOL THAT ENABLES YOU TO SATISFY CUSTOMER REQUIREMENTS WHILE MAINTAINING OPTIMAL INVENTORY LEVELS.

MRP is the software engine that takes demand from sales orders and forecasts, in conjunction with the supply of purchase orders, production orders, and master production schedules, to generate planned orders in a time-phased manner to offset the outstanding demands for end items and subassemblies.

MRP DISPLAY

- This core MRP screen shows the planner exactly what needs to be purchased and/or produced.
- All supply and demand can be viewed from this one centralized location.
- Production and Purchase Orders can be created directly from this screen.

FULL REGENERATION

- Schedule regeneration to run anytime, day or night.
- All existing planned orders for all items are eliminated.
- MRP starts over, calculating gross and net requirements, and then replans what materials are required to either be produced or purchased.

MASTER PRODUCTION SCHEDULE

- The MPS is entered manually by the planner.
- MRP plans all requirements based upon MPS.
- The MPS will be treated as a pre-planned production order and will act as a supply for other demand requirement.

Inventory ID	Description	Source	Warehouse	Base Qty	ActDate	Promise Date	Preferred Vendor	Type	Reference Nr
AMSHET10	Sheet Metal 10 Gauge	Purchase	WHOLESALE	4.9600	11/22/2016	12/2/2016	AAVENOOR	MRP Requirement	SC003656
AMCIRBOARD	Circuit Board	Purchase	WHOLESALE	498.0000	11/24/2016	12/9/2016	ACTIAYSIST	MRP Requirement	SC003656
AMBLACKDYE	Black Dye	Purchase	WHOLESALE	499.0000	11/26/2016	12/2/2016	INDICOLAB	MRP Requirement	SC003656
AMRESISTOR	Resistor	Purchase	WHOLESALE	1.992.0000	12/2/2016	12/9/2016	ACTIAYSIST	MRP Requirement	SC003656
AMBASE	Base Unit	Manufact.	WHOLESALE	499.0000	12/2/2016	12/13/2016		MRP Requirement	SC003656
AMPUMP	Pump	Purchase	WHOLESALE	500.0000	12/5/2016	12/12/2016	PUREWATER	MRP Requirement	SC003656
AMWIREHARN	Wire Harness	Purchase	WHOLESALE	1.000.0000	12/7/2016	12/12/2016	ELEASTCOM	MRP Requirement	SC003656
AMPICB	Printed Circuit Board	Manufact.	WHOLESALE	498.0000	12/9/2016	12/27/2016		MRP Requirement	SC003656
AMDRIPTRAY	Drip Tray	Purchase	WHOLESALE	499.0000	12/9/2016	12/12/2016	ASARHARD	MRP Requirement	SC003656
AMSSCREW	Stainless Steel Screw	Purchase	WHOLESALE	999.0000	12/9/2016	12/12/2016	ASARHARD	MRP Requirement	SC003656
AMRESVOLVT	Reservoir Inlet	Manufact.	WHOLESALE	500.0000	12/12/2016	12/27/2016		MRP Requirement	SC003656
AMFLATHEAD	Flat Head Screw	Purchase	WHOLESALE	2.000.0000	12/16/2016	12/23/2016	ASARHARD	MRP Requirement	SC003656
AMFILTER	Internal Purging Filter	Purchase	WHOLESALE	500.0000	12/22/2016	12/27/2016	PUREWATER	MRP Requirement	SC003656
AMWATER	Water Reservoir	Purchase	WHOLESALE	500.0000	12/25/2016	12/27/2016	PUREWATER	MRP Requirement	SC003656
AMHOUSING	Housing	Purchase	WHOLESALE	500.0000	12/22/2016	12/27/2016	CONHOMED	MRP Requirement	SC003656
AMCIRBOARD	Circuit Board	Purchase	WHOLESALE	100.0000	12/26/2016	1/10/2017	ACTIAYSIST	Production Material	000000
AMKINGM400	King Model 400	Manufact.	WHOLESALE	500.0000	12/27/2016	3/31/2017		Sales Order	SC003656
AMSHINGLESU	Single Hung Doors	Manufact.	WHOLESALE	1.0000	1/19/2017	1/19/2017		Sales Order	SC003659
AMSHINGLESU	Single Hung Doors	Manufact.	WHOLESALE	1.0000	1/25/2017	1/25/2017		Sales Order	SC003659
AMSHINGLESU	Single Hung Doors	Manufact.	WHOLESALE	1.0000	2/3/2017	2/3/2017		Sales Order	SC003659
AMRESISTOR	Resistor	Purchase	WHOLESALE	196.0000	2/3/2017	2/10/2017	ACTIAYSIST	MRP Requirement	SC003656
AMRESISTOR	Resistor	Purchase	WHOLESALE	100.0000	2/8/2017	2/13/2017	ACTIAYSIST	Safety Stock	SC003656
AMCIRBOARD	Circuit Board	Manufact.	WHOLESALE	24.0000	2/10/2017	2/10/2017		Sales Order	SC003659
AMPICB	Printed Circuit Board	Manufact.	WHOLESALE	49.0000	2/10/2017	2/13/2017		Safety Stock	SC003659
AMSSCREW	Stainless Steel Screw	Purchase	WHOLESALE	200.0000	2/10/2017	2/13/2017	ASARHARD	Safety Stock	SC003659
AMCONBAND	Lite Tapes Bold n Bright Tape &	Transfer	BEHAL	7.0000	2/13/2017	2/13/2017	DONNETJENN	Safety Stock	SC003659
AMBLACKCAPS	Black Bottle Caps	Purchase	WHOLESALE	320.0000	3/17/2017	3/29/2017	AAVENOOR	MRP Requirement	EC37000002

Maintain optimal inventory levels while keeping your customers happy

KEY BENEFITS

COORDINATE ACTIVITIES

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

STAY ON ONE PLATFORM AS YOU GROW

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

MRP EXCEPTION MESSAGES HANDLE PROBLEMS WITH EASE

- Shows the planner recommendations to defer, expedite, and delete supply items
- Identify late orders and display any transfers that are available from another warehouse or site



MATERIAL REQUIREMENTS PLANNING FEATURES AND CAPABILITIES

Forecasting

Forecasts can be calculated or entered manually. These forecasts can be dependent and consumed by sales orders, or can be independent. Forecasts can be input as one-time, weekly, monthly, or yearly.

MRP Detail

This inquiry screen shows all the activity for an inventory item within a site and where that activity was generated.

Bucketless System

MRP plans requirements from every single demand rather than compiling requirements for a period of time. The system allows for flexibility by allowing user defined time buckets.

Multi-Site Planning

Controls whether MRP will plan requirements by site or by a combination of sites.

THE ACUMATICA ERP DIFFERENCE

Acumatica delivers a full suite of integrated business management applications unlike any other ERP solution on the market today.

STREAMLINE OPERATIONS

Manage your business more efficiently:

- Automate processes
- Control workflows
- Access the system from anywhere on any device—including mobile
- Promote collaboration with all-inclusive user licensing

ADAPTABLE SOLUTION

Add and extend:

- Deploy in-house or in a private or public cloud
- Easily configure your solution to fit your needs
- Add capabilities such as CRM or data visualization at any time
- Extend to other solutions and applications beyond ERP

YOUR BUSINESS ACCELERATED

Get a single version of the truth:

- Accelerate business performance and make smarter decisions with automated processes, real-time data collection, financial analyses, and forecasting
- No per user pricing – system scales as your business grows

Inventory ID	Type	Ref Type	Reference	Quantity	Request Date	Process Date	Warehouse	Supply ID	Supply Warehouse
AMCOE001	Deliver	Production Order	000001	0.0000	12/21/2016	12/21/2016	WHOLESALE	0.0000	0.0000
AMCOE001	Late Order	Production Order	000001	0.0000	12/21/2016	12/21/2016	WHOLESALE	0.0000	0.0000
AMPC8	Expedite	Production Order	000003	1.0000	12/27/2016	11/02/2017	WHOLESALE	0.0000	0.0000
AMPC8	Late Order	Production Order	000003	1.0000	12/27/2016	11/02/2017	WHOLESALE	0.0000	0.0000
AMPC8	Deliver	Production Order	000018	1.0000	21/30/2017	12/27/2017	WHOLESALE	0.0000	0.0000
AMPC8	Late Order	Production Order	000018	1.0000	21/30/2017	12/27/2017	WHOLESALE	0.0000	0.0000
INDCO021	Deliver	Purchase Order	000114	0.0000	19/20/14	19/20/14	WHOLESALE	0.0000	0.0000
INDCO021	Late Order	Purchase Order	000114	0.0000	19/20/14	19/20/14	WHOLESALE	0.0000	0.0000
INDCO021	Deliver	Purchase Order	000113	0.0000	19/20/14	19/20/14	WHOLESALE	0.0000	0.0000
INDCO021	Late Order	Purchase Order	000113	0.0000	19/20/14	19/20/14	WHOLESALE	0.0000	0.0000
WDCG030	Deliver	Purchase Order	E3000299	0.0000	10/22/2013	10/22/2016	WHOLESALE	0.0000	0.0000
WDCG030	Late Order	Purchase Order	E3000299	0.0000	10/22/2013	10/22/2016	WHOLESALE	0.0000	0.0000
AMCOE001	Deliver	Purchase Order	E3000498	0.0000	11/30/2016	12/20/2016	WHOLESALE	0.0000	0.0000
AMCOE001	Late Order	Purchase Order	E3000498	0.0000	11/30/2016	12/20/2016	WHOLESALE	0.0000	0.0000
AMCS040G	Late Order	Purchase Order	E3000474	89.0000	21/30/2017	21/30/2017	WHOLESALE	0.0000	0.0000
AMCS040G	Expedite	Purchase Order	E3000474	4.0000	12/7/2017	21/30/2017	WHOLESALE	0.0000	0.0000
AMCS040G	Late Order	Purchase Order	E3000474	4.0000	12/7/2017	21/30/2017	WHOLESALE	0.0000	0.0000
CONBA02	Deliver	Transfer Supply	S0000412	0.0000	29/20/16	29/20/16	WHOLESALE	0.0000	0.0000
CONBA02	Late Order	Transfer Supply	S0000412	0.0000	29/20/16	29/20/16	WHOLESALE	0.0000	0.0000

Handle exceptions with ease

Selected	Inventory ID	Warehouse	Begin Date	End Date	Quantity	UOM	Change in Units	Percent Change	Dependent
<input checked="" type="checkbox"/>	AMCOE001	WHOLESALE	12/27/2017	1/26/2018	2,647,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	AMCS000	WHOLESALE	1/27/2017	1/26/2018	6,200,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	AMMCH001	WHOLESALE	1/27/2017	1/26/2018	2,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	AMCS000	WHOLESALE	1/27/2017	1/26/2018	3,010,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01	WHOLESALE	1/27/2017	1/26/2018	50,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01	WHOLESALE	1/27/2017	1/26/2018	913,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA02	WHOLESALE	1/27/2017	1/26/2018	724,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA02	WHOLESALE	1/27/2017	1/26/2018	284,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L1	WHOLESALE	1/27/2017	1/26/2018	14,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L2	WHOLESALE	1/27/2017	1/26/2018	14,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L3	WHOLESALE	1/27/2017	1/26/2018	24,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L4	WHOLESALE	1/27/2017	1/26/2018	10,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L5	WHOLESALE	1/27/2017	1/26/2018	615,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L6	WHOLESALE	1/27/2017	1/26/2018	615,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L7	WHOLESALE	1/27/2017	1/26/2018	4,840,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA01L8	WHOLESALE	1/27/2017	1/26/2018	960,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA02	WHOLESALE	1/27/2017	1/26/2018	960,000.00	EA	0.0000	0.00%	<input type="checkbox"/>
<input type="checkbox"/>	CONBA02	WHOLESALE	1/27/2017	1/26/2018	1,000,000.00	EA	0.0000	0.00%	<input type="checkbox"/>

Generate highly accurate forecasts with a few clicks