

Material Requirements Planning

When Manufacturing is Your Business™

Your company goals for an MRP System probably include reducing:

- WIP, Raw Material and Finished Goods Inventories
- Order Change Resistance
- Expediting
- Delinquent Orders

In the past, software powerful enough to accomplish these goals required expensive hardware, with a less-than-user-friendly operating system. JAMS --- JAAS Advanced Manufacturing Software, introduces a new alternative.

JAMS was written to integrate seamlessly with Microsoft Business Solutions-Solomon's application suites. By leveraging MBS-Solomon's flexible architecture, JAMS has created an environment that is easy to manage, yet powerful. JAMS readily provides the information needed by manufacturers to remain profitable in a changing marketplace.

JAMS is a series of application modules designed to provide real time enterprise solutions for many different types of manufacturers. The principals of JAAS have over 100 years of experience in the design and implementation of manufacturing systems. When combined with Solomon, JAMS provides the most cost effective manufacturing system in the mid-range market today.

MRP: Not Too Much Too Soon

Your company just received a large order from a new account. Initial deliveries begin in 6 months. The sub-assemblies on the 4th level of the Bill of Material have a 120 day lead-time on the raw material components needed to manufacture. How will the purchasing and delivery of that material affect not only your investment in inventories, but other orders from existing customers? The answer to this and other questions is the JAMS MRP module. The MRP Generation Program determines

which parts and sub-assemblies are required to fulfill demand. All lead, queue, manufacturing and outside processing times are calculated for each part or sub-assembly. The beginning date for the purchasing of parts or manufacturing of subassemblies is calculated and made available on the various MRP screens and reports. Work orders and purchasing requirements are generated so jobs may be scheduled and all required parts ordered.

Non-MRP tracked items (bulk items, tools and assembly aids) can be added to the respective BOM for release to the manufacturing floor. This ensures that all required parts, tools and information are available to manufacturing upon release of a work order.

The screenshot shows the 'MRP Ticker (AM.M20.00)' window. It has a 'Selection Criteria' tab and a 'Company Selection' dropdown. Below are input fields for 'Inventory ID', 'Site', 'Reference Id', 'Buyer', 'Product Line', 'Vendor ID', 'Cut-Off Date', and 'Source' (with radio buttons for Purchased, Manufactured, and All). There are also 'Sort by' options: Action Date, Inventory ID, Reference ID, and Vendor ID. A 'Search / Refresh' button and 'Clear Criteria' button are present. The 'Last MRP Run' is shown as //.

The search results table is as follows:

Plan	Inventory ID	Source	Site	Quantity	Unit	Action Date	Promise
<input type="checkbox"/>	INK101	Purchase	LA	0.06	GAL	3/24/1995	12/19/15
<input type="checkbox"/>	SHEET101	Purchase	LA	0.07	LB	3/24/1995	12/19/15
<input type="checkbox"/>	SPRING101	Purchase	LA	30.00	EA	3/24/1995	12/19/15
<input type="checkbox"/>	BASE	Purchase	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	BASE101	Manufacture	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	CAP	Purchase	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	CLIP	Purchase	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	CONRING	Purchase	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	SHAFT102	Manufacture	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	TIP	Purchase	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	WRAP	Purchase	LA	30.00	EA	12/19/1997	9/15/200
<input type="checkbox"/>	IN.2100	Purchase	200	0.01	GAL	1/15/1998	10/13/200

At the bottom, there are buttons for 'Select All', 'Clear All', 'Inventory', 'Buckets', 'Detail', and 'Plan'. The status bar shows '0060', 'SYSADMIN', and '2/6/2004'.

The Ticker Screen is a powerful way to alert you to the results of an MRP change.

MRP Generation

The JAMS MRP module will support two methods to determine the resources required for manufacturing demand.

Incremental Regeneration (IRG)

This method determines manufacturing requirements by updating the resource file with changes that have occurred throughout the day. The interval of the IRG is user selectable and can be time or transaction based.

Full Regeneration (FRG)

This method determines manufacturing requirements by a complete analysis of all demand. After a successful run, the old resource requirements are cleared and replaced with the newly calculated requirements.

Windows NT At Your Service

The JAMS MRP module has been designed to run as a Microsoft Windows NT service on any system on the network. This key design characteristic allows the system to deliver information in a fast, easy-to-administer process. Since it functions as a NT service, MRP can be performed in the traditional (full) regenerative mode as well as in an incremental mode without sacrificing performance. The service runs on Microsoft Windows 2000, Microsoft Windows 2000 Server, Microsoft Windows 2003 Server or Microsoft Windows XP Professional. This is why the JAMS MRP module can deliver mainframe type response on a NT network. You no longer have to sacrifice performance for functionality in your system.

Material Requirements Planning Module Features:

- Net Change On-Line Process
- Firm and Planned Production Orders
 - Forecasts
- Windows NT Scalability
- Generates Purchase Orders
- Configurable Reports

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