

Microsoft® Business Solutions Manufacturing—Great Plains®



Materials Requirements Planning

Materials Requirements Planning (MRP) brings this traditional tool to entirely new heights through the use of the graphical user interface. MRP is now a virtually paperless activity when using the spreadsheet-like view to analyze your inventory levels at any point in time.

You can view material requirements in the way that best meets your needs—by days, weeks or months, or in a bucketless format, which shows your materials requirements regardless of the timeframe. There is no need to dig through piles of papers or separate order files to find out more about the resource requirements. MRP Quantity Pegging allows you to drill down on any of the MRP quantities to review the source of the demand.

The classic management tool for monitoring your material needs, the Manufacturing Series MRP module lets you view your entire manufacturing process over time, giving you the information you need to create purchase orders or manufacturing orders to meet open and/or released demand. Using this function, you can see all released shortages that exist and either issue a new PO or add these to an existing PO, ensuring you have placed orders for any items that will be needed in production.

The MRP Short List makes it easy to quickly identify material shortages.

Item Number	Item Description	Site ID	Due Date	Release Date	Units
100PLG	Green Phone	WAREHOUSE	7/25/00	7/25/00	0 Each
55		55	0	0	0 Each
256 SDRAM	256 meg SDRAM	WAREHOUSE	7/25/00	7/25/00	0 Each
18		0	0	0	0 Each
333PROC	333 Processor	WAREHOUSE	7/25/00	7/25/00	0 Each
18		0	0	0	0 Each
40XIDE	40x CD-ROM	WAREHOUSE	7/25/00	7/25/00	0 Each
18		0	0	0	0 Each
5.5HD	5.5 gb Hard Drive	WAREHOUSE	7/25/00	7/25/00	0 Each
18		0	0	0	0 Each
A100	Audio System	WAREHOUSE	7/25/00	7/25/00	0 Each
18		0	0	0	0 Each
BK MOUSE	Black Mouse	WAREHOUSE	7/25/00	7/25/00	0 Each
18		0	0	0	0 Each

Key Features

- To optimize your use of MRP, the run span, bucketing options, and type of MRP generation method can all be uniquely defined.
- Advanced filtering options by item, warehouse, planner code, buyer code, and/or date, let you view just the information you need.
- A Planning Time Fence will allow the user to establish a period in time inside of which they do not want MRP to recommend changes to the existing supply model.
- Move In Logic ensures that when a net requirement is identified, MRP will recommend that existing scheduled receipts be "moved in" to meet that net requirement as recommended by APICS. MRP Open Orders will only be recommended if existing scheduled receipts are not sufficient enough to meet the net requirement.
- MRP information can be quickly bucketed into days, weeks or months.
- Shortages in either made products or bought items can be easily converted into manufacturing or purchase orders with minimal data entry.
- The MRP view window provides an intuitive, spreadsheet-like view of your whole inventory over time.
- Advanced "drill down" capabilities let you find out the source of any information shown on the MRP view window.
- Custom, user-defined options let individual users of MRP tailor their view of the information to their exact needs.
- Detailed MRP item windows allow low-level analysis of all activity relating to any item you make or buy.
- Forecast Consumption leverages the Sales Forecasting and Material Requirements Planning components to enable sales demand to be reflected in material requirements plans. That is, you can create different sales forecasts, and when you regenerate MRP information, these forecasts along with current sales orders can be taken into consideration.

Materials Requirements Planning also requires the Bill of Materials and Manufacturing Order Processing modules to operate.

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