

# Materials Requirement Planning

## Affordable Materials Requirement Planning

The Materials Requirement Planning/Master Production Schedule (MRP/MPS) module was designed to give PFW/PFD users the ability to develop manufacturing forecasting plans and determine material requirements based on the production plan. The forecasting plan allows you to take into account such considerations as sales forecasts, customer orders, minimum stock, maximum order, and reorder quantities. Fully functional demonstration software is available to ensure complete customer satisfaction.

## BOMP & PFW by Best Integration...

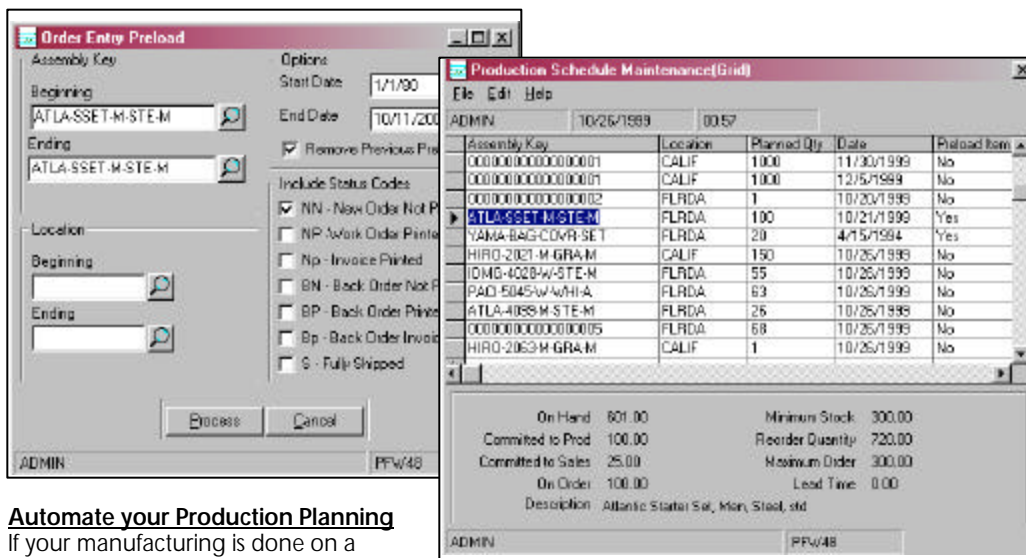
MRP/MPS works in conjunction with our BOMP module, which is required, with all BOM's created and maintained in BOMP. Our programs are designed with the look and feel of PFW, allowing a smooth transition between the products. There is no need to worry about an interface because our system processes everything for you. MRP integrates with PFW/PFD standard modules seamlessly, reading and writing directly to the files.

## Pervasive Integration...

Our enhancements will work in conjunction with multiple versions of Pervasive database engines. We use standard program calls to access the Platinum database; therefore, the Pervasive database engine will work for both Platinum and our enhancements.

## Highlight Features

- MRP/MPS is a Windows based product, developed in Visual Basic, and uses a Microsoft Access database format to store Data.
- Seamlessly integrated with PFW by Best (versions 4.6 through 5.0) and PFD 4.6.
- Create Production Forecast Based on open numbers.
- Reads Platinum Inventory's On-hand, available, and stocking quantities.
- Calculates material purchase Quantity based on your selection criteria.
- Affordable !!



## Automate your Production Planning

If your manufacturing is done on a make-to-order basis you may use MRP's Order Entry Pre-load utility to populate your Production Planning Schedule. This utility reads PFW & PFD's OE module for orders with the user-specified order status and fills the assembly's planned quantity with the quantity remaining on the order. The user may then modify the production plan to add forecasting and additional planning items. You may also enter all of your planning and forecasting manually. To optimize your planning efficiency we include two scheduling screens, including the ability to view and enter your production plans in a grid format that sequences the items alphabetically and allows you to restrict the grid view to a specific item.

The Production Planning Schedule is generated for all finished good items that need to be manufactured in order to fulfill the production plan formulated in the schedule screens. This report is printed using user defined planning periods for up to 20 periods. Included is an option to generate BOMP transactions for all report items with a planned quantity.

# Precise Material Requirement Planning

## Options Galore...

The Material Requirement Planning report provides material requirement information for up to 20 user defined planning periods. The material requirements are calculated using a variety of optional features, allowing you to control the information printed on the report.

## Filtering Options

You may restrict the report to a selected range of Finished Good/Sub-Assembly items and a range of component items that you want printed on the report. You may also select which level you want the bill of material exploded to when calculating the material requirements. The levels include raw, top, and an all sub-assemblies option.

### REPORTING LEVELS

#### Raw Level

Computes the report quantities by using the lowest level BOM component items; therefore, the inventory quantities for the sub-assemblies will not be considered when processing the report. This report shows purchasing which raw material items need to be ordered for each production planning period.

#### Top level

Computes the report quantities by using the top level component items and sub-assemblies; therefore, any components that are used to build the sub-assemblies will not be considered in the report. This report displays the top-level components and sub-assemblies that are needed to be ordered/built for each production planning period.

#### All Sub-Assemblies

This report shows the production department all of the sub-assembly items that need to be built in order to fulfill the Production Schedule. Companies that manufacture sub-assemblies to stock and then build the top-level assembly items should use this report.

The screenshot shows the 'Material Requirements Planning' dialog box with the 'Print Parameters' tab selected. It contains fields for 'Assembly Key' (Beginning, Ending), 'Period Parameter' (Start Date: 10/26/199, # of Periods: 10, Days per Period: 7), 'Assembly Location' (Beginning, Ending), and 'Print Destination' (Window, Printer, Disk). Buttons for 'Print', 'Clear', 'Default', and 'Exit' are at the bottom.

The screenshot shows the 'Material Requirements Planning' dialog box with the 'Component Range' tab selected. It contains fields for 'Component Key' (Beginning, Ending) and 'Component Location' (Beginning, Ending). Buttons for 'Print', 'Clear', 'Default', and 'Exit' are at the bottom.

## Item Requirements Options

The component requirements are calculated using the combined total planned quantities (calculated from items on the MPS report) and the selected inventory quantities. You may choose to include the current on-hand, committed to sales, committed to production, and on order quantities on the report. For added convenience, you may also choose to display the minimum & maximum stocking quantities and the reorder quantity on the report.

## Purchase Options

The report will include a "Purchase" field that calculates the amount to be ordered. This is the quantity needed to keep inventory from going negative. If the Minimum stock quantity is displayed then the purchase field will be filled with the quantity that will keep inventory at that level. Also, if the reorder quantity is displayed the purchase quantity will be limited to quantities divisible by the reorder amount. The generate purchase orders option will use the purchase quantity when creating purchase orders.

You may select the option to only print the items that need to be purchased as associated with above item.

The screenshot shows the 'Material Requirements Planning' dialog box with the 'Report Options' tab selected. It has three sections: 'Print Inventory Quantities' (On Hand, On Order, Commit to Sales, Commit to Production), 'Print Additional Fields' (Lead Time, Planner Code, Minimum Stock Qty, Maximum Order Qty, Reorder Quantity), and 'Calculate Requirements for:' (Raw level, Top level, All Sub-Assemblies). A 'Processing Options' section includes checkboxes for 'Print only components with required qty', 'Include Order Entry preload items', 'Create Purchase Orders for requirements', 'Include plans dated prior to start date', 'Include Additional Cost Items', 'Include Lead Time in Calculations', 'Print only components with Purchase qty', and 'Include Non-Stocking Items'. Buttons for 'Print', 'Clear', 'Default', and 'Exit' are at the bottom.

## Planner ID and Lead Time Options

Platinum for Windows Version 4.6+ does not include a field to enter a Planner ID code, as did previous versions. MRP/MPS has been modified to read the item class or bin number field to use as a Planner ID code. Platinum For Windows Version 4.6+ changed the inventory files to not include a field to enter an inventory item lead-time. MRP/MPS has been modified to use the market cost or carry cost field to control lead time. The lead time may be calculated when running the MRP or MPS report.

## Generating Purchase Orders

The MRP report includes the option to create Purchase Orders for all generated raw material component items. A Purchase Order is generated for all component items displayed on report with a calculated purchase quantity. MRP/MPS reads the Primary Vendor Key assigned in Platinum's Inventory Item Location File. Component Items with the same Primary Vendor and with planned quantities in the same period will be combined on a Purchase Order. The purchase orders may be viewed, modified and posted through the Platinum's Purchase Order Module.

**Platinum**  
for Windows by Best

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