



Material Requirements Planning Overview Document

for Sage 100 ERP

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Introduction

This document includes overview information about each task in the Material Requirements Planning module that is accessible from the menus. You can print this document to use as an offline reference.

The information in this document is also available in the Help system in the overview Help topics.

For additional information about the software, refer to the Help system, which also includes the following:

- Overview information for windows that cannot be accessed directly from menus
- Procedures that guide you step-by-step through common activities
- Explanations of important concepts
- Field descriptions
- Flowcharts
- FAQs

Main Menu

Maintain Project Demands

Navigation

Select Material Requirements Planning Main menu > Maintain Projected Demands.

Overview

Use Maintain Projected Demands to enter and maintain weekly or monthly projections by warehouse, or by warehouse and by customer, for each inventory item.

These projections are used during the MRP Generation process so that the MRP Report can advise you of which items to make or purchase in order to meet demands for raw materials or finished goods.

MRP Generation

Navigation

Select Material Requirements Planning Main menu > MRP Generation.

Overview

Use MRP Generation to perform the MRP generation process. When determining the demand for an item, the system looks at the projected demands, existing work orders, and existing sales orders.

NOTE MRP does not make a recommendation on the MRP Report if there is sufficient quantity on hand in inventory for work orders assigned to sales orders.

NOTE The system does not check whether the Inactive Item check box in Item Maintenance is selected for items included in recommendations created using this task.

Auto Generate Work Orders

Navigation

Select Material Requirements Planning Main menu > Auto Generate Work Orders.

This task is available only if the Work Order module is integrated with MRP.

Overview

Use Auto Generate Work Orders to use information from MRP Generation to create a work order and then increase a firm-planned work order's planned quantity if the demand from the sales order is increased.

Auto Generate Work Orders supports multiple work orders for a given sales order. This occurs when a quantity change (increase) is performed based on a sales order and the existing work order to supply the initial demand is released. If the quantity on the sales order has decreased, MRP will consider the overage as a completion to inventory and will supply future demands.

NOTE The system does not check whether the Inactive Item check box in Item Maintenance is selected for items included on orders created using this task.

Inquiries Menu

MRP Inquiry

Navigation

Select Material Requirements Planning Inquiries menu > MRP Inquiry.

Overview

Use MRP Inquiry to review information for an item, based on the last-completed MRP Generation process. You can view demand, supply, suggested actions, and quantities for an item. The MRP Inquiry information can only be viewed.

Reports Menu

MRP Report

Navigation

Select Material Requirements Planning Reports menu > MRP Report.

NOTE The MRP Generation process must be performed first for this report to be current.

Overview

The MRP Report lists concluding information from the most recently run MRP Generation process. The report includes current on-hand inventory information, and detail for all demand and supply information for each item. You can see recommended actions, quantities, the action by date, and any new required dates. The report can be printed in detail or summary format for all items, a selected range of items, or for certain product or procurement types.

The components of a work order are considered a demand. The purchase order is the supply of these components. These items appear on the MRP Report as PW (planned work order component) and PO (purchase order). The parent item of the work order appears as a supply (FP for firm-planned). BC lines with no reference number represent an inventory level demand from a parent item.

Action by Vendor Report

Navigation

Select Material Requirements Planning Reports menu > Action by Vendor Report.

Overview

The Action by Vendor Report groups, by vendor, all actions that are recommended by the MRP Generation process.

NOTE MRP Generation must be run first for this report to be current.

MRP by Job Report

Navigation

Select Material Requirements Planning Reports menu > MRP by Job Report.

NOTE MRP Generation must be performed first for this report to be current.

Overview

The MRP by Job Report details upcoming requirements for components on a bill of materials by job (sales order or work order). For each component, you can view the quantities needed, the projected on-hand quantities, and required dates.

Projected Demands Report

Navigation

Select Material Requirements Planning Reports menu > Projected Demand Report.

Overview

The Projected Demands Report prints projected demands that have been entered in Maintain Projected Demands. This report can be used as an audit trail of demand entries and also as a comparison report against actual sales. The report prints 12 periods.

Period End Menu

Mat Req Planning Period End

Navigation

Select Material Requirements Planning Period End menu > Mat Req Planning Period End.

Overview

The Material Requirements Planning (MRP) period-end processing is performed once a year to close out the previous year's projected demands. This allows you to create projected demands for a new year.

When performing period-end processing, set the accounting date in MRP to be the last day of the fiscal or calendar year specified in Inventory Management Options. Year-end processing for MRP should be performed after year-end processing is performed in the Inventory Management module.

Setup Menu

MRP Options

Navigation

Select Material Requirements Planning Setup menu > MRP Options.

Overview

MRP Options allows you to customize each module to fit your company's specific accounting requirements by presenting a series of options that allow you to select features most appropriate for your business.

Warehouse Grouping Maintenance

Navigation

Select Material Requirements Planning Setup menu > Warehouse Group Maintenance.

Overview

Warehouse groups allow you to define one or more groups that are used by the MRP Generation process to consolidate recommendations for material acquisitions. A warehouse must be assigned a group code to be considered by the MRP Generation process. Each warehouse group can have one or more warehouses and a group code of up to three characters. All warehouses with the same group code are consolidated and the results are printed together on the MRP Report. The system treats each group separately, so that for two groups you receive two sets of recommendations on the MRP Report.

Warehouse groups can also be established that cause MRP Generation to recommend the transfer of inventory from a manufacturing site to a distribution site.