

Sage Line 500 - Material Requirements Planning

Records Kept

Master Production Schedule (MPS)

- Record the production plan and automatically offset existing works orders, using this as the demand for MRP in a 'make to stock' environment.

Forecasts

- Enter forecasts and automatically offset sales orders, creating the demand for MRP in a 'make to order' environment.

Calendar

- Define a calendar of production and receipt days for each year.

Filters

- User definable filters enable minor rescheduling recommendations to be suppressed e.g. do not recommend reducing an order for 10,000 labels to 9,995.

Tasks Supported

Calculate requirements and recommendations

- Create make and buy recommendations based on the following sources of demand:
 - Master Production Schedule (MPS).
 - Current sales orders.
 - Current works orders.
 - Current requisitions and purchase orders.
 - Existing replenishments.
 - Forecasts.
 - Stock on hand.
 - Stock that has fallen below the reorder level.
- Define demand time fences and firm plan time fences for forecasts and MPS .
- Specify whether you want sales orders to consume forecasts, so that you do not include duplicate information in the recommendations.
- Specify whether you want works orders to consume MPS, so that you do not include duplicate information in the recommendations.
- Use tagging (or pegging) to keep track of the sources of demand that have created the MRP recommendations. Record tagging at multiple levels.
- MRP recommends whether works orders, purchase orders and optionally, purchase requisitions of specified status, should be rescheduled, uplifted, reduced or cancelled.
- Use MRP to create purchase orders as call-offs against supplier contracts.
- Action MRP recommendations directly from enquiry screens.
- Use filters to model your supply chain and simplify MRP recommendations.
 - View suppressed recommendations and adjust filters.
- Optionally, include trial works orders in the MRP requirements.

- Refine the plan by:
 - Selecting supersessions in the bills of material.
 - Making allowances for quality control procedures, inspection yields and purchasing and receiving yields.
 - Making allowances for uninspected stock.
 - Generating recommendations for critical products only, based on A-B-C classifications.
- Identify inventory shortfalls or raise orders without generating a full MRP plan by:
 - Enquiring into the projected stock movements associated with any stock item.
 - Raising works orders directly from sales orders.
 - Raising works orders directly from the MPS.
 - Generating recommendations using stock levels and reorder information only for non-critical products.

Maintain the Master Production Schedule (MPS)

- Produce a master production schedule for selected stock items.
- Either raise orders directly from the master production schedule or use the master production schedule as the demand for the MRP run.
- Optionally, use MRP recommendations to create a new MPS or to add to an existing MPS.

Incorporate forecasts

- Use Gross Requirements Planning (GRP) to examine forecasts, with options to:
 - Define up to seven time buckets.
 - Include stock in hand and sales order forecasts.
 - Define the planning horizon.
- Incorporate forecast recommendations into MRP.
- Raise works orders from the forecasts.

Raise works orders and purchase orders

- Use the calendar of production and receipt days to ensure that:
 - Due dates of works orders take into account non-productive days.
 - Purchase orders become due only on days when they can be received.
- Have MRP select either the preferred supplier or the most recent supplier when it recommends purchases.
- Use MRP to create purchase orders as call-offs against supplier contracts.
- Split MRP recommendations and assign to different suppliers.
- Make adjustments to recommended orders before converting them to works orders or purchase orders.
- Change a works order to a purchase order if you are temporarily unable to make a particular item; change a purchase order to a works order if you are able to make an item that you normally purchase.
- Introduce safety margins when calculating the due dates of orders.

Reporting

Standard reports

- MRP/MPS Analysis Report.
- Forecast Consumption Report.
- MPS Consumption Report.
- Gross Requirements Report.
- Predict Future Stock Balance.

Integration with other modules

Inventory Control

- Specify a different MRP batching method for each stock item, precise quantity, minimum of economic order quantity (EOQ), multiples of EOQ, minimum of EOQ + multiples of re-order increment (ROI).
- For manufactured parts, define MRP batching method as discrete quantity, causing separate recommendations and works orders to be created for multiple of EOQ.
- Specify separate lead times for making and buying an item.
- Optionally, treat all warehouses as a common resource.
- Specify a time bucket to consolidate demands for each stock item.

Bill of Materials

- Use staged lead times from Bill of Materials to reduce stock holdings.

Works Order Processing

- Generate works orders from MRP recommendations.

Purchase Order Processing

- Generate purchase orders from MRP recommendations for either the preferred or last supplier.
- Generate purchase orders as call-offs against supplier contracts.

Purchase Requisitions

- Generate purchase requisitions from MRP recommendations for either the preferred or last supplier.

Sales Order Processing

- Incorporate unfulfilled sales orders in the MRP recommendation calculation.



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