



## SAGE MAS 500

## INVENTORY REPLENISHMENT

### BUSINESS INSIGHTS

Sage MAS 500 takes inquiry, drill-down, monitoring, and data analysis to a whole new level with out-of-the-box business intelligence tools, including Business Insights Analyzer, Business Insights Explorer, Alerts, Crystal Reports®, Web Reports, and integration with desktop productivity tools.

### REPORTING FEATURES

- Maintain custom form layouts for printed forms.
- Tailor forms to your organization's design requirements.
- Export any report data to an external file. Data types supported include ASCII text, delimited, Excel, XML, PDF, HTML, RTF, or Microsoft Word.
- Output any report to the screen, a printer, or a variety of file formats.
- Create customized, presentation quality reports through Crystal Reports software.

### REPORTS

- Lead Time, Demand, and Safety Stock Formulas
- Material Requirements
- Planned Orders
- Projected Inventory Valuation
- MRP Generation

### POWERFUL FORECASTING

- Forecast future demand for inventory items.
- Adjust forecasts for seasonal factors.
- Tailor system calculations to match your unique business practices.
- Minimize inventory carrying costs by accurately stocking your warehouses.

### AUTOMATED PROCUREMENT

- Automatically generate purchase orders and/or transfer orders based on forecasts.
- Minimize handling costs by grouping items by vendor.
- Determine optimal purchase amounts based on Economic Order Quantities (EOQ), calculations, or thresholds.

### SAGE MAS 500 SOLUTIONS

- CRM and E-business
- Financials and Project Accounting
- Distribution and Manufacturing
- Human Resources and Payroll
- Customization and Integration
- Business Intelligence

Material Requirements Planning Inquiry

Sort Options

☐ Item/Whse/Date  
☐ Whse/Item/Date  
☐ Date/Item/Whse  
☐ Date/Whse/Item  
☐ Wh/PPL/Br/Vnd  
☒ Custom

Set Flags Selection Criteria

Start Date 06/05/2004 Set Flags  
End Date 07/05/2006 Set Value to Unchecked  
Create Actual  
Whse Firm Plan

Order Type

☒ All  
☐ WO's  
☐ PO's  
☐ TO's

Planning Options

Starting Low Level 0  
Generate Lower Levels  
Plan Fence Date 07/11/2005

Messages

Generate  
☒ Planned Orders  
☐ Actual Orders  
Consolidate PO's  
☐ Remove Unfirm  
Orders  
Schedule...

Act	Firm	Exp	Bm	Item	Whse	Req Date	Ord Date	Tran QTY	Type	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		M-UR02	Tampa	07/11/2005	07/11/2005	13.0000	Purchase	15
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		M-UR02	Tampa	07/11/2005	07/11/2005	13.0000	Purchase	15
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		M-UR03	Tampa	07/11/2005	07/11/2005	12.0000	Purchase	15
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		M-UR03	Tampa	07/11/2005	07/11/2005	50.0000	Purchase	15
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		UPS	Vernon	07/11/2005	07/10/2005	31.0000	Transfer	15
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		MP65D	Tampa	07/11/2005	06/29/2005	10123.0000	Work	42
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		MP65D	Tampa	07/11/2005	07/08/2005	26.0000	Work	42
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		PA48X761	Tampa	07/11/2005	07/05/2005	900.0000	Work	42
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		MGH1000	Tampa	07/11/2005	06/06/2005	2021.0000	Work	41
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		FBS-1000	Tampa	07/11/2005	06/02/2005	2000.0000	Work	42
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		PP48X761	Tampa	07/11/2005	07/05/2005	900.0000	Work	42

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### Streamline Inventory Management through Demand Forecasting and Automated Procurement

The Inventory Replenishment module for Sage MAS 500 ERP provides two powerful unique competitive advantages to your organization. First, forecasting can help accurately predict what customers will buy, reducing inventory carrying costs of unwanted goods while ensuring customers that you can carry the items they demand. Second, automated procurement produces system-generated purchase orders and transfer orders to reduce labor costs and improve accuracy. Unparalleled cost calculations can minimize transaction and overhead costs by creating optimal orders for each vendor.

Knowing what to stock or build to meet your customers' demands is one of the most critical decisions you can make in your business. Too much stock can result in lower margins, high inventory carrying costs, and excess damage as stock remains in-house too long. However, shortages can be even worse, as customers who can't get an item in a reasonable time may call your competitors. Fortunately, Sage MAS 500 forecasting capabilities can help you meet this demand-planning challenge by providing flexible calculations that can be adjusted by warehouse, customer, season, product group, or every individual item. This provides maximum flexibility—and more importantly for your customers and your bottom line—accurate inventory planning.

When a forecast is firmed, the Inventory Replenishment module automatically creates purchase orders, reducing human involvement and the related costs. Replenishment can also be used to automatically move stock between warehouse locations, a valuable feature for centralized hub-and-spoke distributors. Suggested orders are created for items that are required in the immediate future. However, Inventory Replenishment goes far beyond other automated procurement systems. Before a purchase order or transfer order is created, it also takes into account lead times for that vendor, the overhead costs of placing purchase orders to minimize costly low-volume orders, and whether it makes economic sense to purchase other products from the vendor at the same time.

Sage MAS 500 customers can use the Inventory Replenishment system or the Material Requirements Planning system to process replenishment orders. In short, Inventory Replenishment offers the strongest supply chain-centric forecasting and automated procurement tools available today.



# Sage MAS 500

## Inventory Replenishment

*"[Our buyers] use the replenishment function to automatically determine quantities of items to be ordered. The system even creates suggested order lists."*

Elizabeth Vaziri, Controller  
San Francisco Museum of Modern Art

### Accurate Forecasting

#### Calculate Future Demand for Items

Determining how much of an item you will sell is critical to controlling costs while maintaining enough stock to keep customers happy.

- Configure the demand calculation to meet your business requirements.
- Use demand formulas for product groups, even down to individual items.
- Factor seasonal adjustments in calculating demand, such as holiday items.
- Compensate for product lead times.
- Calculate demand from project estimates.

#### Adjust Demand for Exceptional Events

Inventory Replenishment can monitor and report unusual usage for an item, so that you can determine if you need to adjust the demand for the item.

- Create low and high exceptional usage thresholds for each warehouse.
- Monitor usage exceptions with an Unusual Usage Report.
- Adjust demand for an item when exceptional events occur, such as a large one-time order, so that future demand calculations are more accurate.

### Improve Customer Service

Ensure that stock of critical items will be available when the customer needs them.

- Maintain optimal stock levels of key inventory items.
- Provide stock availability with Capable To Promise (CTP) features.

### Automated Procurement

#### Purchase the Right Amount

Let the system calculate how much to purchase of each product, based on user-defined input that best suits your business practices. Four popular methods are provided:

- Generate purchase quantities based on Economic Order Quantity (EOQ), factoring in the item costs, the costs to process and receive purchase orders, as well as inventory carrying costs.
- Set minimum/maximum purchasing rules for low volume items, ordering up to the maximum quantity when stock falls below the minimum.
- Optionally keep stock at a maximum level and only order when it falls below those levels—ideal for high volume or perishable items.
- Manually calculate how much to purchase of any item.

### Advanced Calculations

Inventory Replenishment provides tools to minimize processing and carrying costs, while ensuring that the items your customers need are on hand.

- Accommodate a supply of safety stock for each item based on actual usage or prior vendor lead time performance.
- Let the system calculate how often you should order from each vendor, to balance ordering and receiving costs against inventory carrying costs.

### Single Screen Planning

Generate actual orders and firmed orders from a single point of entry.

- The system determines demand for all items purchased from a vendor to consolidate them on a single purchase order.
- Optionally review suggested purchase orders as a double-check.
- Replenishment can also create suggested transfer orders to move stock from centralized warehouses to subsidiary warehouses. This feature is an excellent tool for hub-and-spoke, centralized distribution.
- The planner can firm planned orders or create actual orders from system-generated planned orders.
- Late orders are flagged for quick identification.

### Material Requirements Planning (MRP)

- Distributors can optionally use either the Inventory Replenishment or MRP planning screens to generate orders.
- Manufacturers should use the MRP activity to calculate dependent demand and transactions related to component and finished goods assemblies.
- Customers who purchase Inventory Replenishment are automatically licensed to use the MRP module (and vice versa).

### Business Insights

Analyze and monitor Inventory Replenishment and MRP data and transactions.

- Organize, analyze, and graph inventory and material demand information, such as on-hand quantities, inventory history, sales history, purchase history, inventory transaction history, material plans, and more.
- Use the Alerts module to monitor Sage MAS 500 when items are at or below their minimum stocking levels by warehouse, when items are out of stock by warehouse, and when back-ordered items are received.