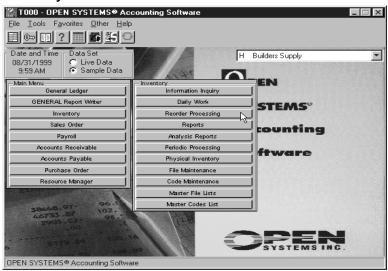
# **Physical Inventory**

4

### **Reorder Processing**

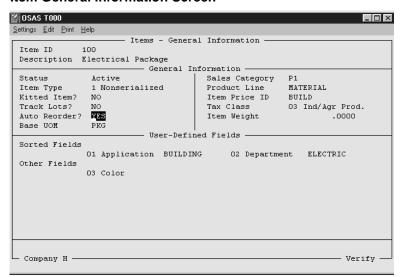
Use the functions on the Reorder Processing menu to calculate reorder amounts, generate purchase requisitions, and produce a report that you can use to analyze the reorder quantities.

#### **Inventory Main Menu Screen**



The reorder process is designed to review summary history for sales, issues, or transfers for a selected group of items and estimate usage in the future. From this usage and current quantities it determines a suggested reorder quantity. It determines an order point by applying a weighting factor to sales history activity to determine an estimated usage for the next month. Based on the forecasted usage and the lead-time, the order point is calculated. Safety stock is calculated from the order point. If an item is below the order point, a reorder quantity will be suggested.

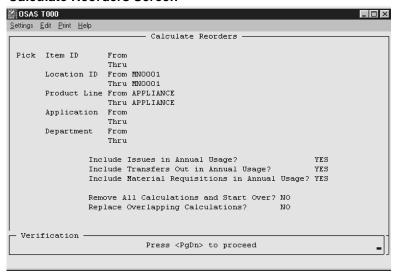
#### **Item General Information Screen**



Reorder Processing Physical Inventory

### **CALCULATE REORDERS**

#### Calculate Reorders Screen

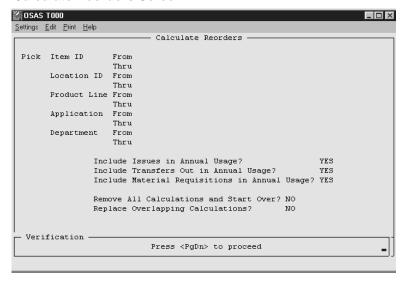


Use the Calculate Reorders function to calculate the quantity of an item to reorder based on one of three methods:

- 1. Economic Order Quantity (EOQ) uses the actual annual usage, unit cost, carrying cost (as a percentage) and order cost.
- 2. Forecast uses the forecast type assigned to the Item Location and sales history.
- 3. Min/Max uses the **Minimum Order Qty** and the **Maximum Qty** set up on the Location Information screen in Item Locations.

CALCULATE REORDERS Physical Inventory

#### Calculate Reorders Screen



Use the Calculate Reorders function to determine the reorder quantity for the items you specify based on the EOQ (Economic Order Quantity), Min/Max, and Forecast Methods.

If the **Status** fields **Order Point**, **Safety Stock**, and **EOQ** are not set to Frozen, the system calculates values for these fields and changes their status to Calc during the Calculate Reorders function. (These fields are located in the Order Quantities section of the Location information screen in Item Locations.)

The following definitions are used by the system when calculating these field values and the reorder quantity:

**Annual Use** The total of up to 12 months of history. If 12 months are not available, this Quantity will be short.

be short.

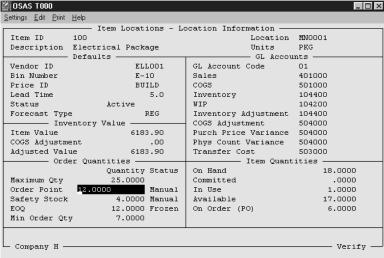
Forecast Use Estimated usage in one month based on weighting factors applied in the forecast.

(Weighting factors are set up in Forecast Types on the Codes Maintenance menu.) This

usage is used to calculate order point safety Stock.

Physical Inventory CALCULATE REORDERS

### Item Location Information Screen



#### Order point

Estimated usage during lead-time PLUS safety stock. Usage during lead-time is calculated by pro-rating forecasted usage time lead days/30.3333. The quantity is then multiplied by 1.5. Two order points are shown. The order point on the Min/Max line is the minimum order quantity you set up in the Order Quantities section of the Location Information screen.

An order is generated ONLY if stock falls below the order point. The system will calculate Order Point unless the user set the Order Point Status to Frozen.

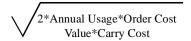
#### Safety Stock

Safety stock is the buffer against uncertainty in vendor deliveries. The system uses 33% of estimated usage during lead-time. 33% is arbitrarily set and should result in a 90% customer service level. It is easy to calculate and effective.

A value for the field Safety Stock Status field is set to Frozen.

When you use the Calculate Reorders function, the system calculates reorder amounts for all three reordering methods and creates entries for each reorder method in the Inventory Requisitions file (INRQxxx).

1. The EOQ method compares the cost of placing a purchase order (and all associated receiving and invoicing costs) against the cost of carrying stock in inventory. It uses the Carrying Cost Pct and Order Cost Amt. fields from the Location. If an item is expensive to order or expensive to stock you can override the Carrying Cost Pct and Order Cost Amt. in the EOQ Overrides section of the Cost Information screen in Item Locations. In general, the higher the cost of the item, the lower the purchase quantity. The traditional EOQ formula is used using Annual Use as the movement variable. The EOQ formula is:



2. The Forecast method calculates estimated usage based on the formula set up in the forecast type assigned to the Item Location. The **Safety Stock** value set up in the Order Quantities section of the Location Information screen in Item Locations is added to the estimated usage. The On Order quantity plus the Quantity Available Is subtracted from that sum.

Estimated Usage Calculated from Forecast Type

- + Safety Stock
- On Order + Available

Reorder Quantity

3. Min/Max calculates a reorder quantity for an item whenever the Available quantity plus the On Order quantity is less than the Minimum Order Qty set up in the Order Quantities section of the Location Information screen in Item Locations. The reorder amount is the Maximum Qty minus the On Hand quantity plus the On Order quantity. (It is assumed that any safety stock buffers are included in the minimum stock level, Minimum Order Qty.)

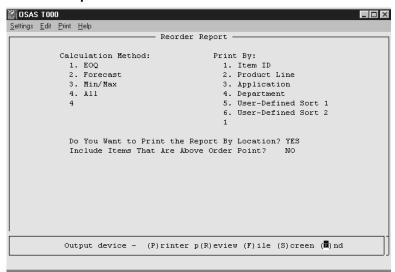
If (Available Quantity + On Order Quantity) < Minimum Order Qty THEN

Maximum Qty
- On Order + Available

Reorder Quantity

### REORDER REPORT

#### Reorder Report Screen

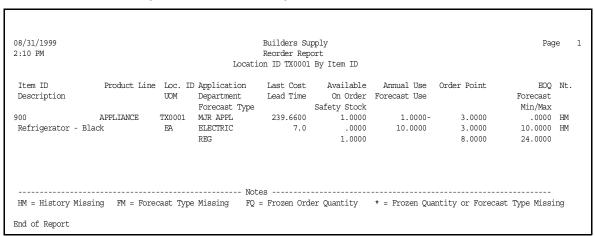


All three-order methods can be shown on the Reorder Report. When you generate purchase requisitions in Purchase Order, you may chose from any of the three methods OR the lowest reorder quantity OR the highest reorder quantity.

The following notes may occur in the Nt. column when and error condition is found while printing the Reorder Report:

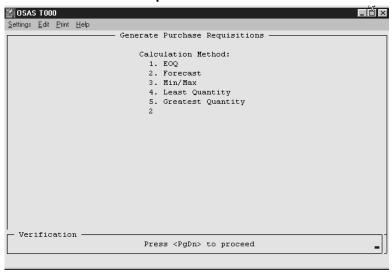
HM - History Missing One or more months of summary history are missing in the last year. Summary sales history is used to produce the forecast used to calculate EOQ.
 FM - Forecast Missing The item is not assigned a Forecast Type.
 FQ - Frozen Order Quantity

#### This is a sample of the Reorder Report



## **Generate Purchase Requisitions**

#### **Generate Purchase Requisitions Screen**



If Inventory is interfaced with Purchase Order, the Inventory Requisitions file (INRQxxx) is used to create purchase requisitions for each item location in the Purchase Order Purchase Requisitions file (POPQxxx) based on the reorder method selected on this screen. You can use the Generate Orders function on the Daily Work menu in Purchase Order to complete the purchase requisition process.

### **Physical Inventory**

At selected times during the fiscal year, a business conducts a physical inventory. This process is used to correct discrepancies between the perpetual-computerized-inventory quantity and the actual-counted-quantities at a location. Discrepancies might be the result of broken stock not removed from perpetual inventory, theft, inaccurate previous counts, and so on.

You can create multiple batches of inventory items if you want to conduct the physical inventory count in stages or cycles. Tags and/or worksheets can be used for recording the physical count for an individual batch or multiple batches, depending on your needs.

The functions on the Physical Inventory menu are used to prepare for the physical inventory count, enter the counted quantities, and update the perpetual inventory information with the counted quantity information.

#### M T000 - OPEN SYSTEMS® Accounting Software <u>File Tools Favorites Other Help</u> Date and Time T Data Set H Builders Supply ₹ 03/30/1999 9:36 AM C Live Data Sample Data Physical Inventory Physical Inventory Selection Bank Reconciliation Information Inquiry General Ledger Daily Work Freeze Quantities GENERAL Report Writer Reorder Processing Print Physical Inventory Tags Inventory Reports Print Physical Inventory Worksheets Purchase Order Analysis Reports Physical Counts Tag Entry Physical Counts Worksheet Entry Sales Order Periodic Processing Payroll Physical Inventory Batch List Accounts Payable File Maintenance Physical Count List Accounts Receivable Code Maintenance Variance Report Resource Manager Master File Lists Physical Count Valuation Report OPEN SYSTEMS® Accounting Software

#### **Physical Inventory Menu Screen**