



## Matrix Processing For MAS 90/200

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## Installation Instructions and Cautions

**PLEASE NOTE: MAS 90** must already be installed on your system before installing any IIG enhancement. If not already done, perform your MAS 90 installation and setup now; then allow any updating to be accomplished automatically. Once MAS 90 installation and file updating is complete, you may install your IIG enhancement product by following the procedure below.

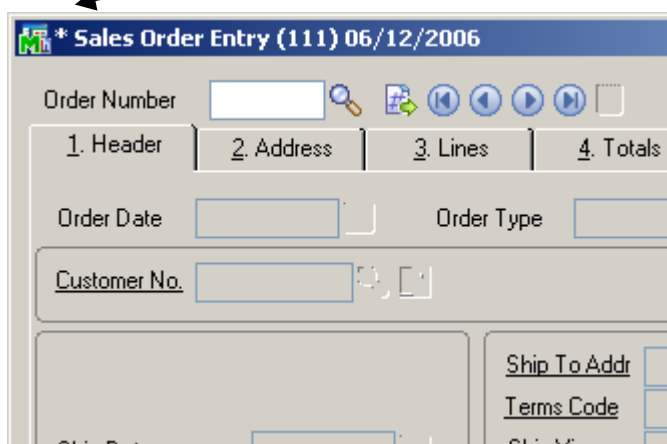
### Wait! Before You Install – Do You Use CUSTOM OFFICE?

**THIS IS AN IMPORTANT CAUTION:** If you have Custom Office installed, **and** if you have modified any MAS 90 screens, you must run **Customizer Update** after you do an enhancement installation.

**But wait! BEFORE** you run **Customizer Update**, it is very important that you **print all of your tab lists**. Running **Customizer Update** will clear all Tab settings; your printed tab list will help you to reset your Tabs in Customizer Update. **Custom Office** is installed on your system if there is an asterisk in the title bar of some of the screens. The asterisk indicates that the screen has been changed.

An **asterisk** in a window's title bar indicates that the screen has been modified. This means that **Custom Office** is installed.

Follow all the instructions on this page before you run **Customizer Update!**



## Registering IIG products

IIG Enhancement should be registered to be able to use it. If registration is not performed, the enhancement will work in a demo mode for a limited time period. The registration can be still done during the demo period.

Select the **IIG Product Registration** program under the **Library Master Setup** menu of the MAS 90.

If this option is not listed under the Library Master Setup menu, go to the main menu, and select **Run** from the **File** menu. Type in SVIIGR and click **OK**.

Enhancement	Level	Release Date	Serial Number	Unlocking Key
IIG Enhancement Name	4.20		AAAAAAAAAAAAAAAAAA	BBBBBB

Enter **Serial Number** and **Unlocking Key** provided by IIG, and click **OK**.

If multiple IIG Enhancements are installed, Serial Numbers and Unlocking Keys should be entered for each enhancement.

Use the **Print Registration Form** button to print IIG Registration Form.

## Setup

### Matrix Options

Select the **Matrix Options** program under the **Inventory Management Setup** menu.

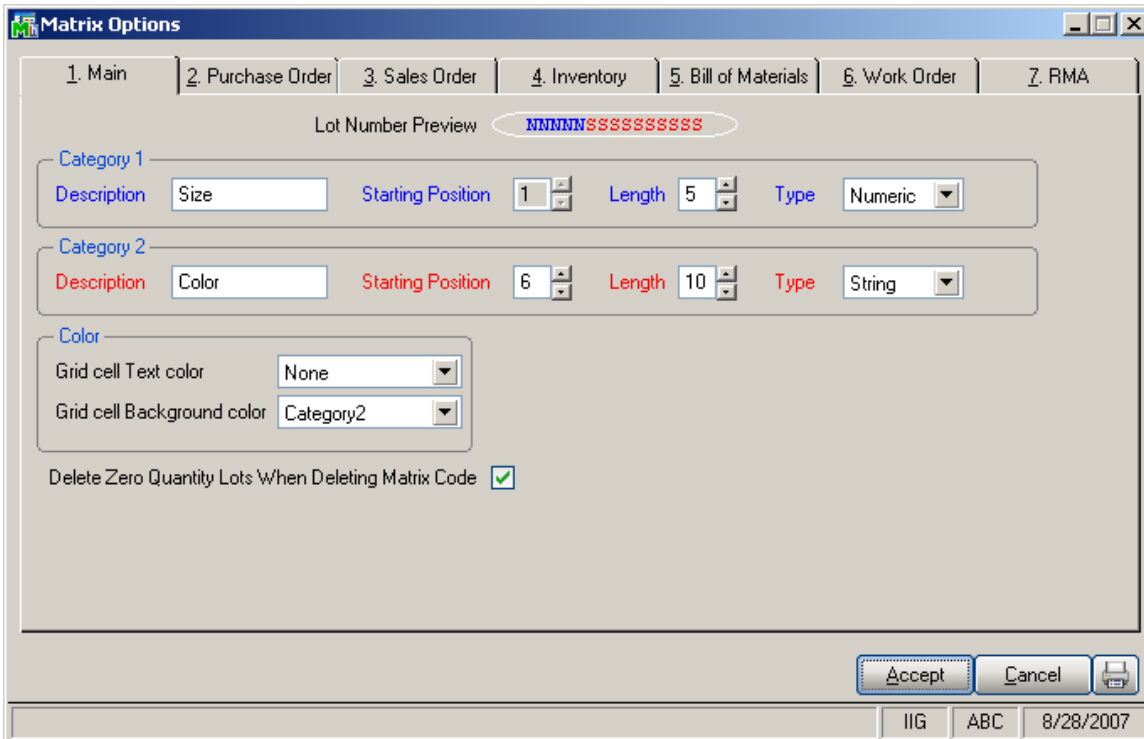
On the **Main** tab, select options for Matrix Code Categories and grid colors.

Enter **Descriptions** for **Categories** 1 and 2.

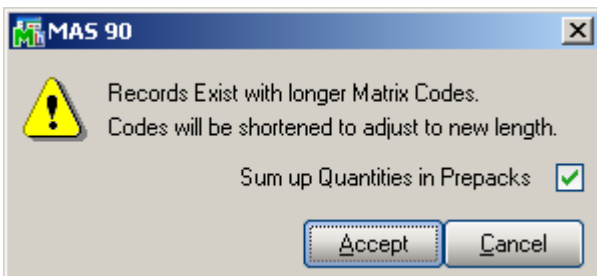
Enter Starting **Position**, **Length** and **Type** of the Matrix Codes for Categories 1 and 2. The program will interpret the part of the Lot Number from the Starting Position with the number of symbols equal to Length as Matrix Code of the corresponding Category. Type can be Numeric or String. Code parts of the Lot Numbers will be checked against the Type. The Code of a Category with Numeric Type can contain only digits. The Category 2 Code cannot be positioned before the Category 1 Code.

The **Lot Number preview** displays the format of the Lot Number with the selected settings. The symbols written in

**blue** represent a **Category 1** Code; symbols written in **red** represent a **Category 2** Code. Code symbols are: “**S**” for String Type Code, “**N**” for Numeric Type Code.



If the **Length** of a Category is reduced, and longer Matrix Codes exist, the following message box is displayed:



On clicking Accept, all existing Codes will be shortened. If there are Matrix Codes, beginning with the same symbols, only one of them will be retained when shortening. For example, when reducing the Length from 3 to 2, of the two following Codes: GRE and GRY, only the first – GRE, will be retained under the new name GR (along with all of its options). If such two Codes are used in the same Prepack, there are two ways to treat the quantities in the Prepack. Check the **Sum up Quantities in Prepacks** box to add up the quantities of all the initial Codes to be shortened to the



new Code. If the **Sum up Quantities in Prepacks** box is cleared, only the quantities of the first one will be retained.

If the **Type** of a Category is changed from **String** to **Numeric**, the Matrix Codes, containing other symbols beside digits, will be displayed in red on the **Matrix Codes Maintenance** screen.

Select a Category in the **Grid cell Text color** field. The text in the cells of the matrix distribution grid will be displayed in the colors assigned to the Codes of the selected Category. Colors are assigned in the **Matrix Code Maintenance** program.

Select a Category in the **Grid cell Background color** field. The cells of the matrix distribution grid will have the background of the colors assigned to the Codes of the selected Category. Colors are assigned in the **Matrix Code Maintenance** program.

Check the **Delete Zero Quantity Lots When Deleting Matrix Code** box to have deleted the Lot Numbers, which do not have Quantity, corresponding to the Matrix Code being deleted for the item from the **Matrix Code Maintenance**. This option does not affect deletion of the System Matrix Codes.

Click the **Print** button to print the MXP Options Listing:



On the other tabs of the **Matrix Options** screen, select module specific options.

On the **Purchase Order** tab, select options for **Matrix Distribution** in the programs of the **Purchase Order** module.

The screenshot shows the 'Matrix Options' dialog box with the 'Purchase Order' tab selected. The 'Matrix Distribution in' section has checkboxes for 'Purchase Order Entry', 'Repeating Order', and 'Receipts of Goods Entry', all of which are checked. The 'Show Quantities' section has checkboxes for 'On Hand', 'Available', 'Distributed', and 'On PO', with 'Distributed' checked. The 'Grid Column Width' is set to 10. The 'Enter quantities by' dropdown is set to 'Columns'. The 'Construct Grid by only existing' dropdown is set to 'Matrix Codes'. The 'Purchase Order Full Distribution Required' checkbox is checked. The 'Lot/Serial Distribution From P/O in ROG' dropdown is set to 'Yes'. The 'Remove Lot Distribution From ROG' dropdown is set to 'Prompt'. The 'Accept', 'Cancel', and 'Print' buttons are visible at the bottom right. The status bar at the bottom shows 'ABC' and '4/21/2008'.

In the **Matrix Distribution in** section, check the boxes to display the **Matrix Distribution** screen instead of the standard **Lot/Serial Distribution** screen for the Matrix Items in the corresponding programs.

In the **Show Quantities** section, check the boxes to display corresponding quantities in the matrix distribution grid. Quantities **On Hand**, **Available**, **Distributed** and **On PO** can be selected. Each cell of the grid will display the selected quantities, separated by slashes.

*Note that at least one of these boxes should be checked, so that at least one quantity is displayed in each cell.*

Enter **Grid column Width**. Each column in the matrix distribution grid will have the entered width.

From the **Enter quantities by** drop-down list, select **Rows** or **Columns**. This option specifies the direction of moving the selection in the Grid when entering quantities. You can choose to enter all the quantities in the first row, then move to the second, and so on (by **Rows**). The selection moves to the left, when accepting the quantity. If you want to enter

all the quantities in the first column, then in the second, and so on, select the **Columns** option. In this case, the selection moves down, when accepting the quantity.

From the **Construct Grid by only existing** drop-down list, select the **Lot Numbers** to display already existing Lot Numbers for item Matrix Code in the matrix distribution grid. Select **Matrix Codes** to display item Matrix Codes from the **Matrix Code Maintenance**.

Check the **Allow only existing Matrix Codes** box to allow entering only the Lot Numbers containing existing Matrix Codes in the Matrix Distribution screen. Clear the check box to be able to enter Lot Numbers with new Matrix Codes. If the Grid is constructed by Matrix Codes, the new Codes will not be displayed.

Check the **Matrix Distribution Auto Popup in P/O Entry** box to auto display the **Matrix Distribution** screen when clicking in the **Quantity** field. The **Matrix Distribution** screen is displayed when the quantity is zero regardless of this setting. If the box is checked, it appears for non-zero quantities as well. In this case, the **Ordered** quantity cannot be entered on the line, and is set equal to the **Quantity Distributed** displayed on the **Matrix Distribution** screen. If the box is cleared, the screen appears only for zero quantities. In this case, the **Quantity Distributed** field is not displayed on the **Matrix Distribution** screen, and the distribution will be balanced against the quantity entered in the **Ordered** field of the line.

Check the **Purchase Order Full Distribution Required** box to require full distribution for all lines of the purchase order when accepting the order. If this check box is cleared, orders can be accepted without distributing all the lines completely.

From the **Lot/Serial Distribution from P/O in ROG** drop-down list, select **Yes** to pass the distribution of Purchase Order to Receipt Of Goods, **No** not to use the distribution, or **Prompt** to ask user in each Receipt Of Goods.

From the **Remove Lot Distribution from ROG** drop-down list, select **Yes** to remove lot distribution information if Received Quantity is changed to zero in the **Receipt of Goods Entry**. **No** not to remove the distribution, or **Prompt** to ask user in each Receipt Of Goods.

If the **Use Cost Discount % with Lot Costing** box is checked the standard **Vendor Cost Discount %** along with **MXP Lot Costing** will be used in Purchase Order Entry and Receipt of Goods Entry. Otherwise only the **MXP Lot Costing** for the selected item, if there is such specified in the MXP Lot Price/ Cost maintenance, will be used.

On the **Sales Order** tab, select options for **Matrix Distribution** in the programs of the **Sales Order** module.

The screenshot shows the 'Matrix Options' dialog box with the 'Sales Order' tab selected. The dialog has several sections:

- Matrix Distribution in:** A table with three rows and two columns. The first column lists programs, and the second column has a checked checkbox.
 

Program	Checked
Sales Order Entry	<input checked="" type="checkbox"/>
Price Quote	<input checked="" type="checkbox"/>
Invoice Data Entry	<input checked="" type="checkbox"/>
- Show Quantities:** A table with two rows and two columns. The first column lists quantity types, and the second column has a checked checkbox.
 

Quantity Type	Checked
On Hand	<input checked="" type="checkbox"/>
Available	<input checked="" type="checkbox"/>
Distributed	<input checked="" type="checkbox"/>
- Use Price Discount % along with Lot Pricing:** A single checkbox that is unchecked.
- Grid column Width:** A numeric field set to 10.
- Enter quantities by:** A drop-down menu set to 'Columns'.
- Matrix Distribution Auto Popup in S/O Entry:** An unchecked checkbox.
- Sales Order Full Distribution Required:** An unchecked checkbox.
- Remove Lot Distribution From Invoice:** A drop-down menu with 'Yes' selected. The menu options are 'Yes', 'No', and 'Prompt'.

At the bottom right, there are 'Accept', 'Cancel', and a printer icon. At the bottom left, there is a status bar with 'IIG ABC 8/28/2007'.

In the **Matrix Distribution in** section, check the boxes corresponding to the programs, where, for the Matrix Items, the Matrix Distribution screen will be displayed instead of the standard **Lot/Serial Distribution** screen.

If the **Matrix Distribution in Sales Order Entry** is enabled, the Distribution for Matrix items can be also allowed for **Price Quotes**. When the **Price Quote** box is checked, the Matrix Distribution of the Price Quote will be preserved, when converting it to Standard Order.

The **Show Quantities** section, **Grid column Width** field, and the **Enter quantities by** drop-down list are the same as on the **Purchase Order** tab. The settings apply to the programs of the **Sales Order** module.

Check the **Matrix Distribution Auto Popup in S/O Entry** box to auto display the **Matrix Distribution** screen when clicking in the **Quantity** field in the **Sales Order Entry** program. The **Matrix Distribution** screen is displayed when the quantity is zero regardless of this setting. If the box is checked, it will also popup for non-zero quantities. In this case, the **Ordered** quantity cannot be entered on the line, and is set equal to the **Quantity Distributed** displayed on the **Matrix Distribution** screen. For Back Orders, the **Back Ordered** field is used instead of the **Ordered**. If the **Matrix Distribution Auto Popup in S/O Entry** box is cleared, the screen will popup only for zero quantities. In this case, the **Quantity Distributed** field is not displayed on the **Matrix Distribution** screen, and the distribution should be balanced against the quantity entered in the **Ordered** field of the line.

Check the **Sales Order Full Distribution Required** box to require full distribution for all lines of the sales order for accepting the order. If this check box is cleared, orders can be accepted without distributing all the lines completely.

From the **Remove Lot Distribution from Invoice** drop-down list, select **Yes** to remove lot distribution information if Shipped Quantity is changed to zero in the **Invoice Data Entry** and **Shipping Data Entry**. **No** not to remove the distribution, or **Prompt** to ask user in each Receipt Of Goods.

If the **Use Price Discount % with Lot Pricing** box is checked the standard **Price Discount %** along with **MXP Lot Pricing** will be used in the **Sales Order Entry** and **SO Invoice Data Entry**. Otherwise only the **MXP Lot Pricing** for the selected item, if there is such specified in the MXP Lot Price/ Cost maintenance, will be used.

On the **Inventory** tab, select options for **Matrix Distribution** in the programs of the **Inventory Management** module.

The screenshot shows the 'Matrix Options' dialog box with the 'Inventory' tab selected. The dialog has a title bar with a close button. Below the title bar is a tabbed interface with seven tabs: '1. Main', '2. Purchase Order', '3. Sales Order', '4. Inventory' (selected), '5. Bill of Materials', '6. Work Order', and '7. RMA'. The main area contains two sections: 'Matrix Distribution in' and 'Show Quantities'. The 'Matrix Distribution in' section has a checkbox for 'Inventory Transaction Entry' which is checked. The 'Show Quantities' section has three checkboxes: 'On Hand' (unchecked), 'Available' (checked), and 'Distributed' (checked). Below these sections are two controls: 'Grid column Width' with a numeric spinner set to '10', and 'Enter quantities by' with a drop-down menu set to 'Columns'. At the bottom right are 'Accept', 'Cancel', and a printer icon. At the bottom center are three small boxes containing 'IIG', 'ABC', and '8/28/2007'.

In the **Matrix Distribution in** section, check the boxes corresponding to the programs, where, for the Matrix Items, the Matrix Distribution screen should be displayed instead of the standard **Lot/Serial Distribution** screen.

The **Show Quantities** section, **Grid column Width** field, and the **Enter quantities by** drop-down list are the same as on the **Purchase Order** tab. The settings apply to the programs of the **Inventory** module.

On the **Bill of Materials** tab, select options for **Matrix Distribution** in the programs of the **Bill of Materials** module.

If the module has not been activated and setup in the system, the options will be unavailable.

The screenshot shows the 'Matrix Options' dialog box with the 'Bill of Materials' tab selected. The dialog has a tabbed interface with tabs for: 1. Main, 2. Purchase Order, 3. Sales Order, 4. Inventory, 5. Bill of Materials (selected), 6. Work Order, and 7. RMA. The main area contains two sections: 'Matrix Distribution in' and 'Show Quantities'. The 'Matrix Distribution in' section has three checked checkboxes: 'Production Entry', 'Auto Distribute Lines', and 'Disassembly Entry'. The 'Show Quantities' section has three checkboxes: 'On Hand' (unchecked), 'Available' (checked), and 'Distributed' (checked). Below these sections are two controls: a 'Grid column Width' spinner set to 10, and an 'Enter quantities by' dropdown menu set to 'Columns'. At the bottom right are 'Accept', 'Cancel', and a printer icon. The status bar at the bottom shows 'IIG ABC 8/28/2007'.

In the **Matrix Distribution in** section, check the boxes corresponding to the programs, where, for the Matrix Items, the Matrix Distribution screen should be displayed instead of the standard **Lot/Serial Distribution** screen.

If the **Production Entry** box is checked, you can select the **Auto Distribute Lines** option to use the Header Bill Matrix distribution for the distribution of the Lines Matrix items. The Auto Distribution will be done only when entering new **Production Entry**.

The **Show Quantities** section, **Grid column Width** field, and the **Enter quantities by** drop-down list are the same as on the **Purchase Order** tab. The settings apply to the programs of the **Bill of Materials** module.



On the **Work Order** tab, select options for **Matrix Distribution** in the programs of the **Work Order** module.

If the module has not been activated and setup in the system, the options are unavailable.

The screenshot shows the 'Matrix Options' dialog box with the 'Work Order' tab selected. The dialog has a title bar with standard window controls. Below the title bar are seven tabs: 1. Main, 2. Purchase Order, 3. Sales Order, 4. Inventory, 5. Bill of Materials, 6. Work Order (selected), and 7. RMA. The main content area is divided into three sections. The first section, 'Matrix Distribution in', contains a checkbox for 'Transactions Entry' which is checked. To its right is the 'Show Quantities' section with three checkboxes: 'On Hand' (unchecked), 'Available' (checked), and 'Distributed' (checked). The second section contains a 'Grid column Width' spinner set to 10 and an 'Enter quantities by' dropdown menu set to 'Columns'. The third section, 'Generation From S/O', contains a 'Default Routing' text box with 'CABINET' and a search icon, and a 'Summarize by Item and Lot Numbers' checkbox which is checked. At the bottom right are 'Accept', 'Cancel', and a printer icon. The status bar at the very bottom shows 'IIG ABC 8/28/2007'.

In the **Matrix Distribution in** section, select the boxes corresponding to the programs, where, for the Matrix Items, the Matrix Distribution screen should be displayed instead of the standard **Lot/Serial Distribution** screen.

The **Show Quantities** section, **Grid column Width** field, and the **Enter quantities by** drop-down list are the same as on the **Purchase Order** tab. The settings apply to the programs of the **Work Order** module.

In the **Generation From S/O** group, select the **Default Routing** to be used during Work Order generation with the **Auto Generate Work Orders from Sales Orders** program. The **Routing** can be viewed, and changed for the current generation, from that screen, before generation.

Check the **Summarize by Item and Lot Numbers** box, to sum up different Lot Numbers of the same Item into the same work order instead of generating separate work orders per Item – Lot Number pair.

On the **RMA** tab, select options for **Matrix Distribution** in the programs of the **Work Order** module.

If the module has not been activated and setup in the system, the options are unavailable.

The screenshot shows the 'Matrix Options' dialog box with the 'RMA' tab selected. The dialog has a tabbed interface with tabs for '1. Main', '2. Purchase Order', '3. Sales Order', '4. Inventory', '5. Bill of Materials', '6. Work Order', and '7. RMA'. The 'RMA' tab is active. Inside the dialog, there are two sections: 'Matrix Distribution in' and 'Show Quantities'. The 'Matrix Distribution in' section has two checkboxes: 'RMA Data Entry' and 'RMA Receipts Entry', both of which are checked. The 'Show Quantities' section has two checkboxes: 'Available' and 'Distributed', both of which are checked. Below these sections, there is a 'Grid column Width' field set to '10' and an 'Enter quantities by' dropdown menu set to 'Columns'. At the bottom right of the dialog are 'Accept', 'Cancel', and a print icon. The status bar at the bottom shows 'IIG ABC 8/28/2007'.

In the **Matrix Distribution in** section, check the boxes corresponding to the programs, where, for the Matrix Items, the Matrix Distribution screen should be displayed instead of the standard **Lot/Serial Distribution** screen.

The **Show Quantities** section, **Grid column Width** field, and the **Enter quantities by** drop-down list are the same as on the **Purchase Order** tab. The settings apply to the programs of the **RMA** module.

## Matrix Items

Select the **Inventory Maintenance** program under the **Inventory Management Main** menu.

The **Matrix Item** box can be checked only for **Lot** items. The **Valuation** of an item specified as **Matrix Item** cannot be changed to any type other than **Lot**.

The new **Prepacks** button is available only for **Matrix Items**. Prepacks are discussed later in this manual.

Matrix Item cannot be specified as non-Matrix, if it has Prepacks.

If the **Matrix Item** check box is cleared for an item that has Matrix Codes, the program displays a confirmation message. Matrix Codes of the item will be cleared, if the user chooses to remove the Matrix Item option from the item.

For Matrix Items, the **Matrix Codes** button is also available. Click the button to display the **Matrix Code Maintenance** screen for the selected item.

The screenshot shows a software window titled "Matrix Code Maintenance". At the top, there are input fields for "Item No." (001SH) and "Matrix Code Category Description" (Size). Below these are fields for "Matrix Code" (000000), "Description", and "Color" (R: 255, G: 255, B: 255). A table lists matrix codes and their descriptions. At the bottom, there are status indicators for "IIG", "ABC", and the date "8/28/2007".

Matrix Code	Description	Color	Sort
000000	29	Red	0
000001	30	Blue	1
000002	31	Green	2
000003	32	Cyan	3
000004	33	Yellow	4

The **Matrix Code** button is available on the **Inventory Inquiry** program, too. Clicking the **Matrix Code** button displays the **Matrix Code Inquiry** screen. **Matrix Codes** can be only viewed but not modified or added, from the **Inventory Inquiry** program.

The screenshot shows a window titled "Matrix Code Inquiry". At the top, there are input fields for "Item No." (001SH) and "Matrix Code Category Description" (Size). Below these is a section for "Matrix Code" (000000), "Description", "Sort", and "Color" (R: 255, G: 255, B: 255). A table displays the results with columns for Matrix Code, Description, Color, and Sort. A "Close" button is at the bottom right. The status bar at the bottom shows "IIG ABC 8/28/2007".

Matrix Code	Description	Color	Sort
000000	29	Red	0
000001	30	Blue	1
000002	31	Green	2
000003	32	Cyan	3
000004	33	Yellow	4

Click the **Quantity...** button on the **Inventory Maintenance** screen. Select a **Warehouse**, and click the **Matrix...** button.

**Quantity on Hand & Reorder**

Item No. 001SH Totals Recap Qty History...

Warehouse Code 000 CENTRAL WAREHOUSE Matrix ...

Bin Location	<input type="text"/>	Unit of Measure	EACH
Reorder Method	Economic Quantity	Qty on Hand	11700.00
Economic Order Qty	0.00	Qty on Purch Order	0.00
Reorder Point	0.00	Qty on Sales Order	0.00
Minimum Order Qty	0.00	Qty on Back Order	0.00
Maximum On Hand	0.00	Qty Req for Work Order	0.00
		Qty on Work Order	0.00
		Total Qty Available	11700.00
		Qty in Shipping	0.00
		On Hand less in Shipping	11700.00

⏪ ⏩ ⏴ ⏵
Remove Whse
OK Cancel ?

The **Matrix Distribution Detail** screen displays the **Quantities Available** and **On Hand** in the Grid constructed by Matrix Codes.

The screenshot shows a window titled "Matrix Detail" for "Item 0015H". The window contains a grid with columns labeled SIZE1 through SIZE7 and rows labeled COLOR1 through COLOR7. The grid displays numerical values for quantities available and on hand. Below the grid, there are controls for "Show Quantities" (On Hand and Available checkboxes), a "Grid column Width" spinner set to 10, and an "Ok" button.

	SIZE1	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7
COLOR1	1000.00						
COLOR2	2000.00					600.00	
COLOR3			500.00				
COLOR4							
COLOR5				2800.00			
COLOR6				2800.00			
COLOR7						2000.00	

The same screen is available also from the **Inventory Inquiry** program. Select an item, then select a warehouse from the list, and click the **Zoom** button to display the **Quantity On Hand** screen. Click the **Matrix...** button on that screen to view the **Matrix Distribution Detail** screen.

The **Matrix Sales** button on the **Inventory Maintenance** screen displays the **Detailed Matrix Sales History** screen.

## Customer Matrix Sales History

Select the **Customer Maintenance** program under the **Accounts Receivable Main** menu.

Customer Maintenance (ABC) 8/28/2007

Customer No. 01-ABF  
Name American Business Futures

1. Main | 2. Additional | 3. Statistics | 4. Summary | 5. History | 6. Invoices | 7. Transactions

Address: 2131 N. 14th Street, Suite 100, Accounting Department  
ZIP Code: 53205-1204  
City: Milwaukee, State: WI  
Country: USA, United States of America  
Residential Addr:   
Salesperson: 0100, Jim Kentley  
Telephone: (414) 655-4787, Ext: 219  
Fax:

Terms Code: 01, Net 30 Days  
Primary Contact: ARTIE JOHN, Art  
Ship Code: UPS BLUE  
Primary Ship To: 2, American Business Futur

Tax Schedule: WI MILMIL, Milwaukee  
Exemptions...

Credit Hold:   
Credit Limit: 120,000.00

E-mail Address: artie@abf.com  
URL Address: www.abf.com  
E-mail Statements:

Accept | Cancel | Delete | ?

Click the **Items** menu item.

Sage MAS 90

Detailed Sales History

Item | Matrix

In the opened dialog box click the **Matrix** button to open the **Detailed Matrix Sales History** screen.

Enter the **Item No.** or select it using the **Lookup** button. The **Lookup** list displays only **Matrix** items.

Click the **Multiple Item Lookup** button to view the list of all the **Lot Numbers** of all the items.

The **Item Zoom** button displays the **Inventory Inquiry** screen for the selected item.



**Detailed Matrix Sales History**

Customer: 01-ABF American Business Futures Year: 2007

Item No.: 001SH Ship To: 2

Size: SIZE1 Color: COLOR1

Period	Qty Sold	Dollars Sold	Cost Sold	Qty Return	Prior Yr Qty Sold	Var %
01 JAN	0.00	0.00	0.00	0.00	0.00	.0
02 FEB	0.00	0.00	0.00	0.00	0.00	.0
03 MAR	0.00	0.00	0.00	0.00	0.00	.0
04 APR	0.00	0.00	0.00	0.00	0.00	.0
05 MAY	0.00	0.00	0.00	0.00	0.00	.0
06 JUN	0.00	0.00	0.00	0.00	0.00	.0
07 JUL	0.00	0.00	0.00	0.00	0.00	.0
08 AUG	10.00	1,747.50	2,495.50	0.00	0.00	100.0
09 SEP	0.00	0.00	0.00	0.00	0.00	.0
10 OCT	0.00	0.00	0.00	0.00	0.00	.0
11 NOV	0.00	0.00	0.00	0.00	0.00	.0
12 DEC	0.00	0.00	0.00	0.00	0.00	.0

Totals: Qty Sold: 10.00, Dollars Sold: 1,747.50, Cost Sold: 2,495.50, Qty Return: 0.00, Prior Yr Qty Sold: 0.00

Select a period and click the **Transaction Zoom** button to view the **Detailed Sales History Transaction Inquiry** screen.

**Detailed Sales History Transaction Inquiry**

Customer: 01-ABF American Business Futures Year: 2007 Period: 08

Item No.: 001SH

Trans Date	Type	Reference	Lot Number	Quantity	Unit Cost	Extension
08/28/07	SO	0100091-IN	SIZE1 COLOR1	10.00	49.910	499.10

## Matrix Codes

Select the **Matrix Code Maintenance** program under the **Inventory Management Setup** menu.

The screenshot shows the 'Matrix Code Maintenance' window. At the top, there's a search bar for 'Item No.' and a dropdown for 'Matrix Code Category Description' set to 'Size'. Below that, the 'Matrix Code' field contains 'SIZE7' and the 'Description' field contains 'SIZE 7'. There are also color selection controls (R: 64, G: 128, B: 128) and a color swatch. A table below shows a list of matrix codes from SIZE1 to SIZE6 with their descriptions and colors. Navigation buttons (First, Previous, Next, Last) are at the bottom left, and a 'Close' button is at the bottom right. A status bar at the very bottom shows 'IIG ABC 8/28/2007'.

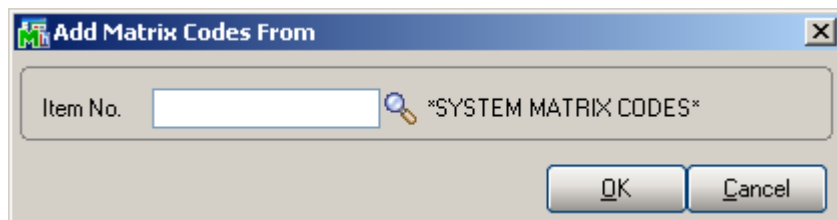
Matrix Code	Description	Color	Sort
SIZE1	SIZE 1	Purple	
SIZE2	SIZE 2	Grey	
SIZE3	SIZE 3	Orange	
SIZE4	SIZE 4	Blue	
SIZE5	SIZE 5	Dark Purple	
SIZE6	SIZE 6	Red	

**First – displays system Codes**

Each **Matrix Item** (item checked as Matrix in the **Inventory Maintenance** program) can have its own **Matrix Codes**. Besides, Matrix Codes can be defined for the entire system. If an item doesn't have own Matrix Codes, the program will use the system Codes for this item.

When no Item is selected in the **Item No.** field, the program displays the Codes of the system. To view system Codes, click the First button (of the Navigation buttons).

Matrix Codes can be added from an item or entire system to the selected item's Matrix Codes or to the system Codes (if no item is selected). Click the **Add From...** button.



On the **Add Matrix Codes From** screen, select the Item to copy and add Matrix Codes from. The existing Matrix Codes of the destination Item will be retained, and the copied Codes will be added. If the Code already exists, it is retained with all options, not overridden by the added Code.

If no item is selected in the **Add Matrix Codes From** screen, the program will add the system Matrix Codes.

Click the **Remove All** button to remove all the Matrix Codes of the selected Item. The Matrix Codes used in a Prepack will not be removed. The **Remove All** operation cannot be done for system Codes.

The **Add From** and **Remove All** operations are performed for all the Codes of both **Categories**.

To enter a new Code or view/modify an existing one, first select the **Matrix Code Category** by Description. All the Matrix Codes of the selected Category are listed with their descriptions and assigned colors.

**Note:** Special symbols like ½ can be included in the **Matrix Code**, if its type is set to **String** in the **Matrix Options** program. To enter such symbol, you can use the Character Map program from the System Tools sub-menu of the Accessories folder of the Start Menu in the Windows. Or, you can enter it simply by holding down the Alt key on your keyboard and typing the code of the needed symbol on the Num Pad. (Make sure the Num Lock is pressed before.) For example, to enter the symbol ½, hold down Alt and type 0189 on the Num Pad.

A **Matrix Code** can be selected either by clicking the **Lookup** button or by clicking the corresponding line in the list.

To assign **Color** to the selected Code, enter RGB values or click the **Lookup Colors** button to select a color in the standard Windows **Color** screen.

Optional **Sort** information can be entered to have the Codes sorted in the Matrix Distribution Grids. The Codes are listed according to that information, so that you can preview the order in which they will be displayed in Grids.

To enter new Code, type in the **Matrix Code** and **Description**, and select a color.

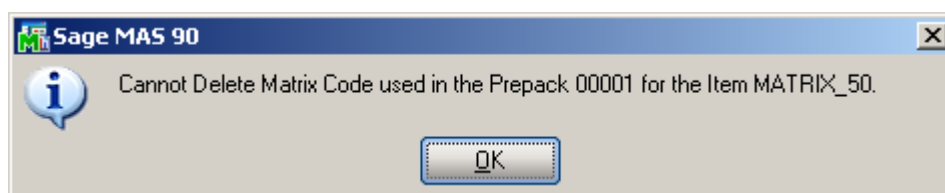
Click **OK** to accept the changes for the selected Code.

Click **Undo** to cancel changes.

Click **Del** to delete the selected Code.

If the **Delete Zero Quantity Lots When Deleting Matrix Code** box is checked in the **Matrix Options**, the Lot Numbers, which have Zero Quantities (do not have current activity), constructed with the Matrix Code being deleted for the item will be deleted, too. This option does not affect deletion of the System Matrix Codes.

When trying to delete a Code used in a Prepack, a message is displayed informing that the Matrix Code cannot be deleted since it is used in the Prepack Code, indicating the Prepack Code and the Item Number (if working with the system Matrix Codes):



If there is a Prepack for the selected Item, based on the system Matrix Codes, after creating at least one pair of Matrix Codes of different Categories (that is, one of Category 1 and one of Category 2), the Prepack's Matrix Codes with non-zero quantities will be added to the Item Matrix Codes.

The initial grid is constructed from the Matrix Codes of the selected Item, if it has at least one Code of each Category. Otherwise system Matrix Codes are used.

The following keyboard shortcuts can be used in the **Matrix Code Maintenance** screen:

Alt+G to go to the grid.

Alt+T to set focus to the Category field.

Alt+M to set focus to the Matrix Code field.

Alt+C to set focus to the Color field.

You can navigate from Code to Code in the grid using the Arrow keys. PageUp selects the first, and PageDown the last Code in the grid.

**Matrix Codes** not corresponding to the **Type** of **Category** are displayed in red. This can happen when changing the Type of a Category from **String** to **Numeric**. The existing Matrix Codes, containing other symbols beside digits, will be displayed in red on the **Matrix Code Maintenance** screen.

The **Matrix Code Maintenance** screen doesn't allow navigating through other items' codes, if launched from the **Inventory Maintenance** program. The **Item No.** field displays the selected item, and is disabled.

## Prepacks

In the **Inventory Maintenance** program, select a **Matrix Item**.

The screenshot shows the 'Inventory Maintenance' window with the following details:

- Item No.: 001SH
- Description: (empty)
- Product Line: FD&A FLEXIBLE DISKS & ACCESS.
- Product Type: Finished Good
- Valuation: Lot
- Price Code: STD
- Procurement: Buy
- Primary Vendor: (empty)
- Weight: 20
- Volume: 2.0000
- Standard U/M: EACH
- Purchase U/M: CASE, No. Of: EACH, 100
- Sales U/M: EACH, No. Of: EACH, 1
- Matrix Item:
- Prepacks: (button highlighted with an arrow)
- Last Costs: Total 49.910, Item .000, Allocated 49.910
- Retail Price: 34.950, Std Cost: 15.000
- Std Price: 34.950, Avg Cost: 49.910
- Last Rcpt: 10/10/2010
- Last Sold: 08/28/2007
- Status Bar: IIG ABC 8/28/2007

Click the **Prepacks** button.

	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7
COLOR1	0	0	0	0	0	0
COLOR2	0	0	0	0	0	0
COLOR3	0	0	0	0	0	0
COLOR4	0	0	0	0	0	0
COLOR5	0	0	0	0	0	0
COLOR6	0	0	0	0	0	0
COLOR7	0	0	0	0	0	0

Select a **Customer No.** to view the Prepacks of the selected customer. If no Customer is selected, the Prepacks of the Item can be viewed.

To create a new Prepack, enter the **Prepack Code** and **Description**.

Select a cell, and enter the quantity:

	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7
COLOR1	1	0	0	0	0	6
COLOR2	2	0	5	0	0	3
COLOR3	0	3	0	0	0	0
COLOR4	0	0	0	12	1	0
COLOR5	0	0	0	0	0	1
COLOR6	0	0	7	0	0	11
COLOR7	0	0	9	0	0	0

After pressing Enter, the focus moves to the next cell, which is activated by pressing Enter, double-clicking, or by directly entering the new quantity. The direction of moving the selection in the Grid when entering quantities is defined by the **Enter quantities by** drop-down list. It is defaulted to the setting on the **Inventory** tab of the **Matrix Options** program, but you can change it and select **Rows** or **Columns** for current use. You can choose to enter all the quantities in the first row, then move to the second, and so on (by **Rows**). The selection moves to the left, when accepting the quantity. If you want to enter all the quantities in the first column, then in the second, and so on, select the **Columns** option. In this case, the selection moves down, when accepting the quantity.

After filling all the needed quantities, click **OK** to accept the **Prepack Code**. Click **Undo** to clear all the changes for the selected/entered **Prepack Code**. Click **Delete** to delete the selected **Prepack Code**.



When accepting a Prepack Code, based on the system Matrix Codes, for the Item having at least one Matrix Code, all the Matrix Codes with non-zero quantities from the Prepack will be added to the Item's Matrix Codes.

The **Lookup** button displays the list of existing Prepacks for the selected Item – Customer pair. If no Customer is selected, the list displays the Prepacks of the Item.

The **Alternate Lookup** button displays the list of all the Prepacks of the Item (for all the Customers, and Item's own).

The initial grid is constructed from the Matrix Codes of the selected Item, if it has least one Code of each Category. Otherwise system Matrix Codes are used.

The following keyboard shortcuts can be used in the **Item Prepack Maintenance** screen:

Alt+G to go to the grid.

Alt+C to set focus to the Customer No. field.

Alt+P to set focus to the Prepack Code field.

You can navigate between cells in the grid using the Arrow keys. PageUp selects the first, and PageDown the last cell in the current column; Home selects the first, and End the last cell in the current row.

The **Prepacks** of the Item can be viewed from the **Inventory Inquiry** program, too. Clicking the **Prepacks** button displays the same **Item Prepack Maintenance** screen. Prepacks can be only viewed but not modified or added, from the **Inventory Inquiry** program.

## UPC Options

Select the **UPC Options** program under the **Inventory Management Setup** menu.

The **UPC Options** are set up for using Universal Product Codes for Lot Numbers of Matrix items.

The screenshot shows the 'UPC Options' dialog box with the following settings:

- UPC Code Type: UCC-12
- Allow Only Selected Type:
- Use UCC:
- UCC Code: 123456789
- UPC Next Auto Item Reference: 77
- Scanning: ++UPC++
- UPC Scanning during Receipt:

Buttons: Accept, Cancel, [Printer Icon]

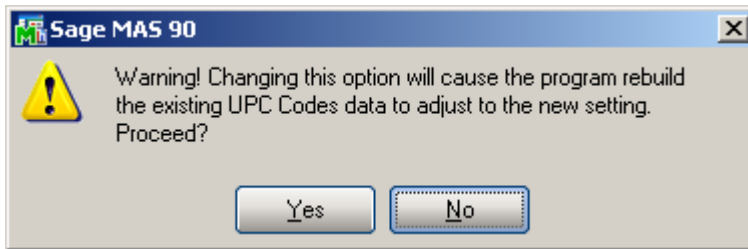
Footer: IIG, ABC, 8/28/2007

The **UPC Code Type** determines the default length to be used for the code – 12, 13 or 14 digits. The available options are UCC-12, EAN/UCC-13, EAN/UCC-14.

Check the **Allow Only Selected Type** box to force the programs to reject UPC Codes of the lengths different from the selected.

Generally, if the **Allow Only Selected Type** box is cleared, the enhancement uses 14 digits for UPC Codes. If the entered UPC Code is 13 or 12 digits long, the program adds one or two zeroes correspondingly to the beginning of the Code. The default length determines possible **UCC Code** and **Item Reference** combinations.

Changing the **Allow Only Selected Type** option after using the UPC Codes in the system, can lead to problems after rebuilding the data connected to the already entered and used UPC Codes.



Check the **Use UCC** box, if your company manufactures rather than purchasing and selling finished goods

The **UCC Code** is the company code, which will be used as the default for the part of the UPC codes. The **UCC Code** cannot be shorter than 6 digits.

The **UPC Next Auto Item Reference** is for adding to the **UCC Code** for assigning UPC Codes automatically in the **UPC Code Maintenance** program. The **Item Reference** cannot be shorter than 2 digits.

The sum of the **UCC Code** and **Item Reference** lengths is equal to the length of the **UPC Code Type** selected (12, 13, or 14).

In the **Scanning** field, enter the code, which will denote the start of scanning UPC codes, when scanned once.

Check the **UPC Scanning during Receipt** box to enable display of the UPC field for scanning UPC codes of the lots not having one, in the Receipt of Goods Matrix Grid.

## UPC Codes

The **UPC Code Maintenance** program under the **Inventory Management Setup** menu allows assigning UPC Codes to the Lot Numbers of the selected item.

Lot Number	UPC Code
SIZE1 COLOR1	111121222995
SIZE1 COLOR2	123456789777
SIZE3 COLOR3	123456789784
SIZE4 COLOR5	123456789791
SIZE4 COLOR6	123456789807
SIZE6 COLOR2	123456789814
SIZE6 COLOR7	123456789821
SIZE2 COLOR3	123456789838
SIZE2 COLOR5	123456789845
SIZE3 COLOR7	123456789852
SIZE6 COLOR3	123456789869

Enter the **Item Number**, or select it using the **Lookup** button. Only Matrix Items are listed in the Item List.

**UCC Code** and **Auto Next Number** are defaulted to the **UPC Options** settings.

From the **Only existing** drop-down list, select **Lot Numbers** to display only the existing Lot Numbers. Select **Matrix Codes** to display all the possible Lot Numbers with the Matrix Codes from the **Matrix Code Maintenance**. If the selected item does not have own Matrix Codes, System Matrix Codes will be used.

Click the **Auto** button to assign codes automatically to all the listed Lot Numbers not having UPC Codes yet.

Any valid UPC Code may be entered. If the **Allow Only Selected type** box is not checked in the UPC Options, the length can be 12, 13 or 14 digits. If the entered UPC Code is 13 or 12 digits long, the program adds one or two zeroes correspondingly to the beginning of the Code. The Checking Digit is checked to be valid. If the **Allow Only Selected type** box is checked, the length must match the selected type. If the Use UCC option is set in the UPC Options, you can enter only Item Reference (the length must correspond to the Options). In this case the program will use the UCC Code and calculate the Checking Digit.

All the codes entered will be saved when clicking the **Accept** button.

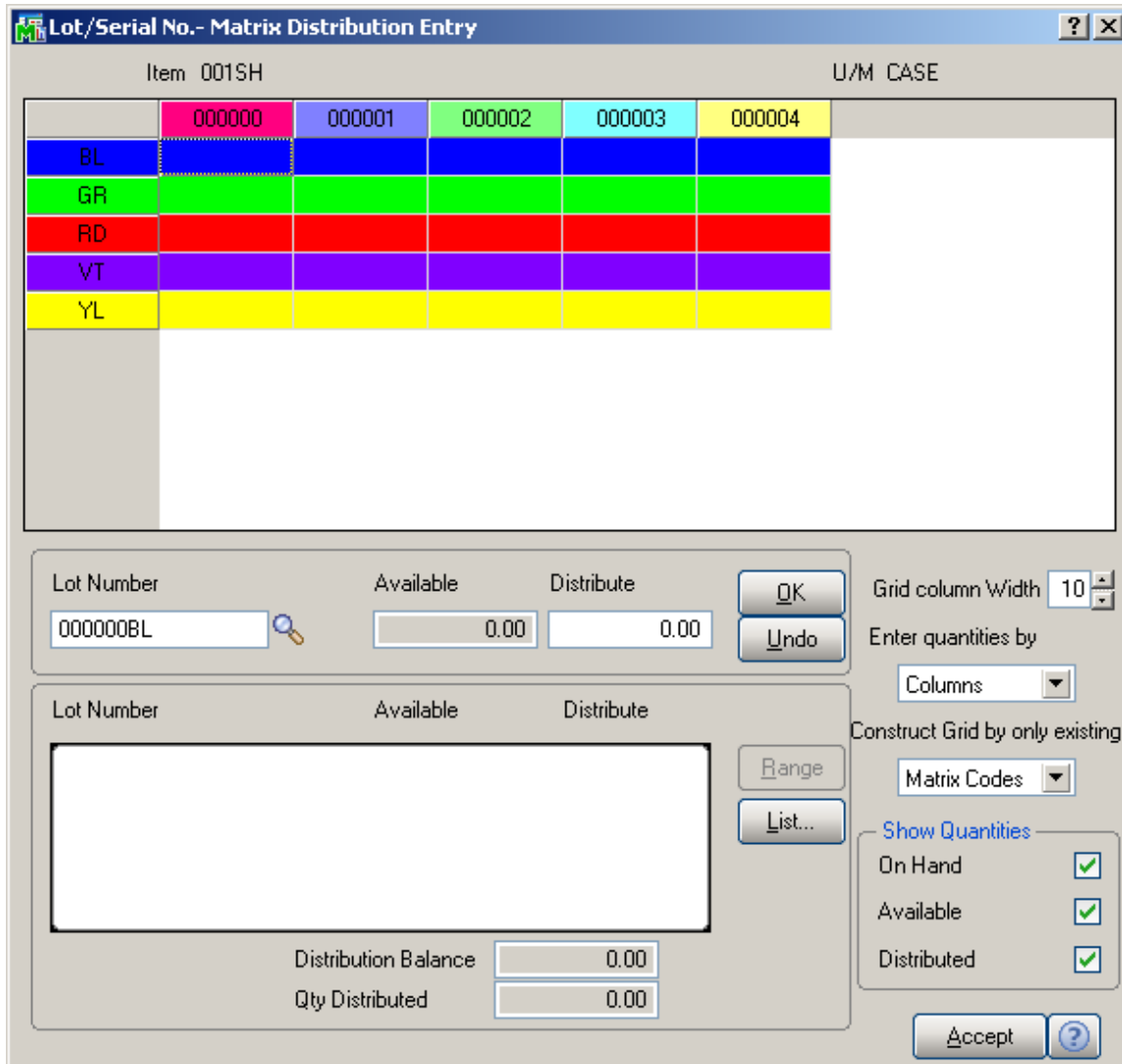
## Matrix Distribution

### Purchase Order Entry

Select the **Purchase Order Entry** program under the **Purchase Order Main** menu.

The **Matrix Distribution** is allowed only for **Standard** and **Repeating Orders**. For **Repeating Orders** the distributed quantities are not committed to the corresponding warehouse.

In the **Lines** tab, select a Matrix Item. If the **Purchase Order Entry** box is checked in the **Matrix Distribution in** section of the **Purchase Order** tab on the **Matrix Options** screen, the following **Matrix Distribution Entry** screen is displayed. For other Lot/Serial items, and also for Matrix Items if that box is not checked in the options, the standard **Lot/Serial No. Distribution** screen has been added.



The grid in the upper part of the screen displays the quantities of the item per Matrix Codes pair, with the **Category 1 Matrix Codes** placed horizontally across the top of the grid and the **Category 2 Matrix Codes** placed vertically. The Codes are highlighted with the corresponding colors. Note that text and background colors of the cells can be set to either of corresponding Category's code colors, in the **Matrix Options** program.

Lot/Serial No.- Matrix Distribution Entry

Item 001SH U/M CASE

	000000	000001	000002	000003	000004
BL	0/0/2.00				
GR	0/0/4.00				0/0/3.00
RD	0/0/2.00		0/0/4.00		0/0/6.00
VT			0/0/4.00		
YL		0/0/3.00		0/0/5.00	0/0/12.00

Lot Number: 000004YL Available: 0.00 Distribute: 12.00

Grid column Width: 10

Enter quantities by: Columns

Construct Grid by only existing: Matrix Codes

Show Quantities: On Hand  Available  Distributed

Accept

Lot Number	Available	Distribute
000000BL	0.00	2.00
000000GR	0.00	4.00
000000RD	0.00	2.00
000001YL	0.00	3.00
000002RD	0.00	4.00
000002VT	0.00	4.00
000003YL	0.00	5.00
Distribution Balance		45.00
Qty Distributed		45.00

Clicking in a cell in the grid selects the Lot Number corresponding to the selected Matrix Codes pair, both in the **Lot Number** field and the Lot Numbers list.

The following keyboard shortcuts can be used in the **Matrix Distribution** screen:

Alt+G to go to the cell in the grid corresponding to the selected Lot Number. If no Lot Number is selected, focus is set to the first cell of the grid.

Alt+C to set focus to the Lot Number field.

You can navigate between cells in the grid using the Arrow keys. PageUp selects the first, and PageDown the last cell in the current column; Home selects the first, and End the last cell in the current row.



In addition to the fields of the standard screen (in the lower part), there are options for the grid. The values are defaulted to the settings on the **Purchase Order** tab of the **Matrix Options** program, but can be changed for the current receipt.

Enter **Grid column Width**. Each column in the matrix distribution grid will have the entered width.

From the **Enter quantities by** drop-down list, select **Rows** or **Columns**. This option specifies the direction of moving the selection in the Grid when entering quantities. You can choose to enter all the quantities in the first row, then move to the second, and so on (by **Rows**). The selection moves to the left, when accepting the quantity. If you want to enter all the quantities in the first column, then in the second, and so on, select the **Columns** option. In this case, the selection moves down, when accepting the quantity.

From the **Construct Grid by only existing** drop-down list, select **Lot Numbers** to display only the selected item's Matrix Codes for which there already exist Lot Numbers (they are listed on the Lot Numbers List). Select **Matrix Codes** to display all the selected item's Matrix Codes from the **Matrix Code Maintenance**.

If there is no previously entered Lot Number for the item, a message will be displayed instead of the Grid, when the **Lot Numbers** option is selected:

Similar message is displayed, if the **Matrix Codes** option is selected, and no Matrix Codes have been entered for the item.

In the **Show Quantities** section, check the boxes corresponding to the quantities to be displayed in the matrix distribution grid. Quantities **On Hand**, **Available**, and **Distributed** can be selected. Each cell of the grid will display the selected quantities, separated by slashes.

Note that if the **Distributed Qty** is not selected to be displayed, and only one of the **On Hand** and **Available** quantities are selected, the values of the selected meaning will be considered as entered if you move around the Grid with the Enter key or double-clicking.

If the **Allow only existing Matrix Codes** box is checked in the **Matrix Options** program, then only Lot Numbers containing existing Matrix Codes are allowed to be entered. If the check box is cleared, you can enter Lot Numbers with new Matrix Codes (not entered in the Matrix Code Maintenance). If the Grid is constructed by Matrix Codes, the new Codes will not be displayed.

*Note: Click OK to accept the current Quantity in the Receive field. Clicking directly the Accept button disregards the current state of the selected Lot Number.*

The **Distribution Balance** field displays the difference of **Quantity Ordered** of the Order and **Quantity Distributed** in the Matrix Distribution.

If the **Matrix Distribution Auto Popup in P/O Entry** box is checked on the **Purchase Order** tab of the **Matrix Options** screen, the **Quantity Distributed** field displays the sum of the quantities of all the distributed Lots. In this case, the **Quantity Ordered** of the Order is set equal to the **Quantity Distributed** when closing the **Matrix Distribution** screen.

If the **Matrix Distribution Auto Popup in P/O Entry** box is cleared, the **Quantity Distributed** field is displayed only when **Quantity Ordered** is zero.

The **Matrix Distribution** screen is displayed when clicking in the Ordered field, if the quantity is zero. If the **Matrix Distribution Auto Popup in P/O Entry** box is checked in the Options, the screen will also popup for non-zero quantities.

Click the **Matrix Items Qty List** button on the **Lines** tab of the **Purchase Order Entry** screen, to see the list of the distributed Lot Numbers of all Matrix Items of the order.

**Purchase Order Entry**

Order Number: 0010028    Quick Print...    Defaults...    Vendor...    User ID: IIG

1. Header    2. Address    3. Lines    4. Totals

Item Number: 001SH    Description:    Tax Class: TX    UT:     LC:     OK

Req'd Date: 08/28/2007    G/L Acct: 115-00-03    Undo

Whse: 000    U/M: CASE    Ordered: 45.00    Received: 0.00    Back Ordered: 0.00    Unit Cost: 4,991.000    Extension: 224,595.00    Addtl...

Line	Item Number	Description	TC	LC	UT	Req Date	G/L Account	Extension
	Whse	U/M	Ordered	Received	Back Order	Unit Cost		
1	001SH		TX	Y	N	08/28/2007	15-00-03	
	000	CASE	45.00	0.00	0.00	4,991.000		224,595.00

Ins Del Quick Line    Total Amount: 224,595.00    Matrix Items Qty List

Accept    Cancel    Delete    ?

IIG    ABC    8/28/2007

The **Matrix Items Distributed Quantities List** screen will be displayed.

**Matrix Items Distributed Quantities List**

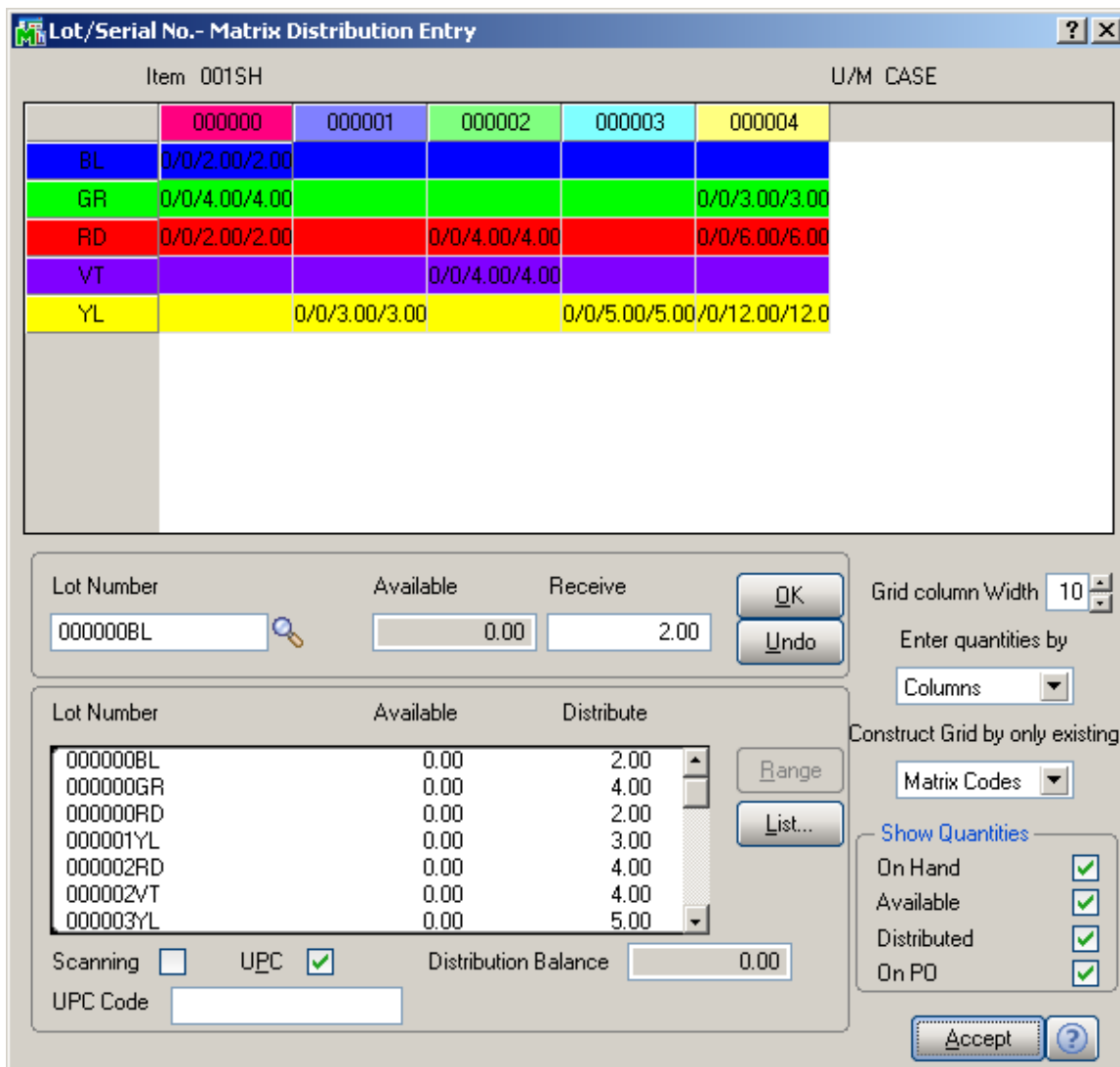
Item Number	Size	Color	Qty Ordered	Qty Received	Qty Open
001SH	00001	GR	300.00	0.00	300.00
001SH	00002	GY	500.00	0.00	500.00
001SH	00003	WH	400.00	0.00	400.00
001SH	00004	BL	600.00	0.00	600.00
001SH	00004	RD	300.00	0.00	300.00

OK

Receipt of Goods

Select the **Receipt of Goods** program under the **Purchase Order Main** menu.

In the **Lines** tab, select a Matrix Item. If the **Receipt of Goods** box is checked in the **Matrix Distribution in** section of the **Purchase Order** tab on the **Matrix Options** screen, the following **Matrix Distribution Entry** screen is displayed instead of the standard **Lot/Serial No. Distribution** screen.



The **Matrix Distribution** screen is similar to the screen in the **Purchase Order Entry** program.

The grid in the upper part of the screen displays the quantities of the item per Matrix Codes pair, with the

**Category 1 Matrix Codes** placed horizontally across the top of the grid and the **Category 2 Matrix Codes** placed vertically. The Codes are highlighted with the corresponding colors. Note that text and background colors of the cells can be set to correspond to either of Category's code colors, in the **Matrix Options** program.

Clicking in a cell in the grid selects the Lot Number corresponding to the selected Matrix Codes pair, both in the **Lot Number** field and the Lot Numbers list.

*Note: Click OK to accept the current Quantity in the Receive field. Clicking directly the Accept button disregards the current state of the selected Lot Number.*

Note that if the **Distributed Qty** is not selected to be displayed, and only one of the **On Hand** or **Available** quantities are selected, the values of the selected meaning will be considered as entered if you move around the Grid with the Enter key or double-clicking.

If the Receipt of Goods is one-step (not based on a Purchase Order), or the line is newly added, the **Quantities Ordered** and **Received** are set equal to the **Quantity Distributed** in the **Matrix Distribution** screen.

The **Quantity Distributed** field is displayed only when **Quantity Received** is zero.

The **Quantity On PO** field displays the distributed quantities on Purchase Order.

If the Receipt of Goods is based on a Purchase Order, the Quantity Received cannot exceed the Ordered Quantity, if the **Allow Qty Received/Invoiced to Exceed Quantity Ordered** box is not checked on the **Additional** tab of the **Purchase Order Options** program under the **Purchase Order Setup** menu.

If the distribution of the Order is changed in the Receipt, (the **Distribution Balance** can be zero even if the distribution is changed), when accepting the distribution, the **P/O and ROG Distribution Balance** screen is displayed with the list of **Lot Numbers**, and the Quantities **Available to Reduce** from them. Enter the Quantities **Reduced** and click **Accept**. The **Total** field displays the

total of reduced quantities, and the **Balance** field displays the balance between reduced and changed quantities.

Lot/Serial Num.	Avail to Reduce	Reduced
00000GR	2.00	0.00

Balance  Total

The **Scanning** check box determines that the Lot Number field is being used for scanning UPC Codes. The corresponding Lot Number will be selected in the list and in the Grid. If the check box is cleared, the entered number will be regarded as regular Lot Number.

The **Scanning** sequence (++UPC++ by default) specified in the **UPC Options** program can be typed in the **Lot Number** field, or scanned with bar code scanner to switch the UPC Code Scanning mode.

The **UPC** box enables displaying the **UPC Code** field when a **Lot Number** not having **UPC Code** is entered, to enable entering the UPC Code for the entered Lot Number.

## Sales Order Entry

Select the **Sales Order Entry** program under the **Sales Order Main** menu.

The **Matrix Distribution** is allowed only for **Standard** and **Back Orders**.

*Note: The **Matrix Processing** enhancement doesn't support selling a specific size and color on a **Drop Ship** lines of a sales order.*

On the **Lines** tab enter a matrix item.

	Item Code	Ordered	Back Ordered	Unit Price	Extension	Co
1	001SH	20.00	.00	34.950	699.00	
2		.00	.00	.000	.00	

Description	
Warehouse	001
Unit Of Measure	EACH
Shipped	.00

Total Amount: 699.00

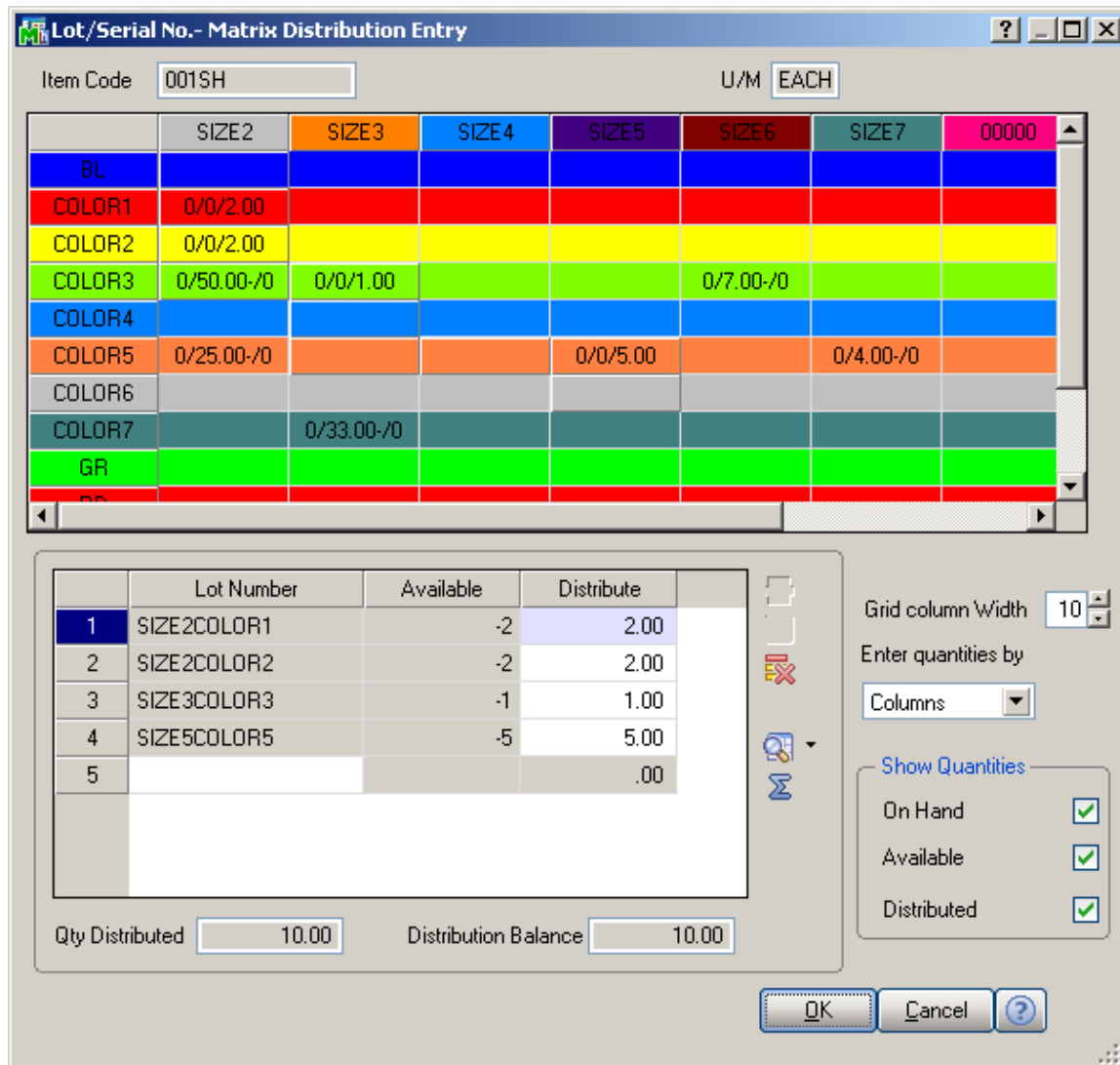
The quantity should be distributed in the **Matrix Distribution** screen, which is similar to the screen in the **Receipt of Goods** program.

Click the **Lot/Serial Distribution** button for the line with matrix item to open the **Matrix Distribution** screen.

The **Matrix Distribution** screen is displayed when clicking in the **Ordered** field, if the quantity is zero. If the **Matrix**

**Distribution Auto Popup in S/O Entry** box is checked in the Options, the screen will also popup for non-zero quantities.

If a UPC Code is scanned, when the focus is in the **Lot Number** field, the program checks if the code is assigned to any Lot Number of the selected item, and substitutes this corresponding Lot Number.



The **Distribution Balance** field displays the difference of **Quantity Ordered** of the Order and **Quantity Distributed** in the Matrix Distribution.

If the **Distribution Balance** is positive, it is displayed in the **Distribute** field when a **Lot Number** is selected either in the Grid or from the Lookup list. Distribution of the Quantity exceeding the Available is also allowed.



*Note: Click OK to accept the current Quantity in the Distribute field. Clicking directly the Accept button disregards the current state of the selected Lot Number.*

Note that if the **Distributed Qty** is not selected to be displayed, and only one of the **On Hand** and **Available** quantities are selected, the quantity values of the selected lots will be considered as entered if you move around the Grid with the Enter key or double-clicking.

If the **Matrix Distribution Auto Popup in S/O Entry** box is checked on the **Sales Order** tab of the **Matrix Options** screen, the **Quantity Distributed** field displays the sum of the quantities of all the distributed Lots. In this case, the **Quantity Ordered** of the Order is set equal to the **Quantity Distributed** when closing the **Matrix Distribution** screen.

If the **Matrix Distribution Auto Popup in S/O Entry** box is cleared, the **Quantity Distributed** field is not displayed.

If the **Matrix Distribution in Price Quote** box is checked in the **Matrix Options**, the distribution for Matrix items is also available for **Price Quote** Sales Orders.

Matrix distribution entered for the **Price Quote** is preserved when converting to **Standard Order**.

### S/O Invoice Data Entry

Select the **Invoice Data Entry** program under the **Sales Order Main** menu.

In the **Lines** tab, select a Matrix Item. Enter the **Quantities**, and click **OK**. If the **Invoice Data Entry** box is checked in the **Matrix Distribution in** section of the **Sales Order** tab on the **Matrix Options** screen, the following **Matrix Distribution Entry** screen is displayed instead of the standard **Lot/Serial No. Distribution** screen.

The **Matrix Distribution** screen is similar to the screen in the **Sales Order Entry** program.

The grid in the upper part of the screen displays the quantities of the item per Matrix Codes pair, with the **Category 1 Matrix Codes** placed horizontally across the top of the grid and the **Category 2 Matrix Codes** placed

vertically. The Codes are highlighted with the corresponding colors. Note that text and background colors of the cells can be set to correspond to either of Category's code colors, in the **Matrix Options** program.

Clicking in a cell in the grid selects the Lot Number corresponding to the selected Matrix Codes pair, both in the **Lot Number** field and the Lot Numbers list.

The following keyboard shortcuts can be used in the **Matrix Distribution** screen:

Alt+G to go to the cell in the grid, corresponding to the selected Lot Number. If no Lot Number is selected, focus is set to the first cell of the grid.

Alt+C to set focus to the Lot Number field.

You can navigate between cells in the grid using the Arrow keys. PageUp selects the first, and PageDown the last cell in the current column; Home selects the first, and End the last cell in the current row.

In addition to the fields of the standard screen (in the lower part), there are options for the grid. The values are defaulted to the settings on the **Sales Order** tab of the **Matrix Options** program, but can be changed for the current invoice.

From the **Enter quantities by** drop-down list, select **Rows** or **Columns**. This option specifies the direction of moving the selection in the Grid when entering quantities. You can choose to enter all the quantities in the first row, then move to the second, and so on (by **Rows**). The selection moves to the left, when accepting the quantity. If you want to enter all the quantities in the first column, then in the second, and so on, select the **Columns** option. In this case, the selection moves down, when accepting the quantity.

Enter **Grid column Width**. Each column in the matrix distribution grid will have the entered width.

In the **Show Quantities** section, check the boxes corresponding to the quantities to be displayed in the matrix distribution grid. Quantities **On Hand**, **Available**, and **Distributed** can be selected. Each cell of the grid will display the selected quantities, separated by slashes.

If a UPC Code is scanned (entered), when the focus is in the **Lot Number** field, the program checks if the code is assigned to any Lot Number of the selected item, and substitutes this corresponding Lot Number.

If the **Distribution Balance** is positive, it is displayed in the **Distribute** field when a **Lot Number** is selected either in the Grid or from the Lookup list. Distributed Quantity can exceed the Available.

*Note: Click OK to accept the current Quantity in the Distribute field. Clicking directly the Accept button disregards the current state of the selected Lot Number.*

Note that if the **Distributed Qty** is not selected to be displayed, and only one of the **On Hand** and **Available** quantities are selected, the values of the selected meaning will be considered as entered if you move around the Grid with the Enter key or double-clicking.

If the Invoice is based on a Sales Order, the Quantity Shipped cannot exceed the Ordered Quantity. The distribution cannot be accepted with negative Balance. The Invoice cannot be accepted with not fully distributed lines. If Invoice is created for a Sales Order, with either **Invoice Data Entry** or **Auto Generate Invoice Selection** program, the distribution of the order is transferred to the invoice.

If the entire quantity is not shipped, and the distribution of the Order is changed in the Invoice, (the **Distribution Balance** can be zero even if the distribution is changed), the **S/O and S/O Invoice Distribution Balance** screen is displayed with the list of **Lot Numbers**, and the Quantities **Available to Reduce** from them. Enter the Quantities **Reduced** and click **Accept**. The **Total** field displays the total of reduced quantities, and the **Balance** field displays the balance between reduced and changed quantities. The screen is similar to the **P/O and ROG Distribution Balance** screen.

### Shipping Data Entry

The Matrix Distribution screen for the **Shipping Data Entry** program under the **Sales Order Shipping** menu is the same as in the **Invoice Data Entry** program.

If a UPC Code is scanned (entered), when the focus is in the **Lot Number** field, the program checks if the code is assigned to any Lot Number of the selected item, and substitutes this corresponding Lot Number.

In the **Item Packaging Maintenance** the Matrix Items can be added to the package(s) by the distributed Lot/Serial No quantities.

The screenshot shows the 'Item Packaging Maintenance' window with a 'Package' field set to '0023'. The main table contains the following data:

	Item on Order	Quantity on Order	In Package	Quantity in Package	Lot/Serial No	Quantity Available
1	1001-HON-H252	3.00	<input checked="" type="checkbox"/>	2.00		0.00
2	2480-8-50	2.00	<input checked="" type="checkbox"/>	1.00	JAN10	0.00
3	6655	4.00	<input checked="" type="checkbox"/>	3.00		0.00
4	M1	1.00	<input checked="" type="checkbox"/>	0.00	SIZE1COLOR1	0.00
5	M1	1.00	<input checked="" type="checkbox"/>	0.00	SIZE1COLOR2	0.00
6	M1	1.00	<input checked="" type="checkbox"/>	0.00	SIZE1COLOR3	0.00
7	M1	1.00	<input checked="" type="checkbox"/>	0.00	SIZE1COLOR4	0.00

At the bottom of the window are buttons for 'Accept', 'Cancel', 'Delete', and a help icon.

The **Quantity in Package** cannot exceed the **Quantity Available**.

### Inventory Transaction Entry

Select the **Transaction Entry** program under the **Inventory Management Main** menu.

The Matrix Distribution screen is the same for **Sales**, **Transfers**, and **Receipts** transaction Types.

In the **Lines** tab, select a Matrix Item. If the **Inventory Transaction Entry** box is checked in the **Matrix Distribution in** section of the **Inventory** tab on the **Matrix Options** screen, the following **Matrix Distribution Entry**

screen is displayed instead of the standard **Lot/Serial No. Distribution** screen.

The **Matrix Distribution** screen is similar to the screen in the **Sales Order Entry** program.

The grid in the upper part of the screen displays the quantities of the item per Matrix Codes pair, with the **Category 1 Matrix Codes** placed horizontally across the top of the grid and the **Category 2 Matrix Codes** placed vertically. The Codes are highlighted with the corresponding colors. Note that text and background colors of the cells can be set to correspond to either of Category's code colors, in the **Matrix Options** program.

Clicking in a cell in the grid selects the Lot Number corresponding to the selected Matrix Codes pair, both in the **Lot Number** field and the Lot Numbers list.

The following keyboard shortcuts can be used in the **Matrix Distribution** screen:

Alt+G to go to the cell in the grid, corresponding to the selected Lot Number. If no Lot Number is selected, focus is set to the first cell of the grid.

Alt+C to set focus to the Lot Number field.

You can navigate between cells in the grid using the Arrow keys. PageUp selects the first, and PageDown the last cell in the current column; Home selects the first, and End the last cell in the current row.

In addition to the fields of the standard screen (in the lower part), there are options for the grid. The values are defaulted to the settings on the **Sales Order** tab of the **Matrix Options** program, but can be changed for the current invoice.

From the **Enter quantities by** drop-down list, select **Rows** or **Columns**. This option specifies the direction of moving the selection in the Grid when entering quantities. You can choose to enter all the quantities in the first row, then move to the second, and so on (by **Rows**). The selection moves to the left, when accepting the quantity. If you want to enter all the quantities in the first column, then in the second, and

so on, select the **Columns** option. In this case, the selection moves down, when accepting the quantity.

Enter **Grid column Width**. Each column in the matrix distribution grid will have the entered width.

In the **Show Quantities** section, check the boxes corresponding to the quantities to be displayed in the matrix distribution grid. Quantities **On Hand**, **Available**, and **Distributed** can be selected. Each cell of the grid will display the selected quantities, separated by slashes.

*Note: Click OK to accept the current Quantity in the Distribute field. Clicking directly the Accept button disregards the current state of the selected Lot Number.*

Note that if the **Distributed Qty** is not selected to be displayed, and only one of the **On Hand** and **Available** quantities are selected, the values of the selected meaning will be considered as entered if you move around the Grid with the Enter key or double-clicking.

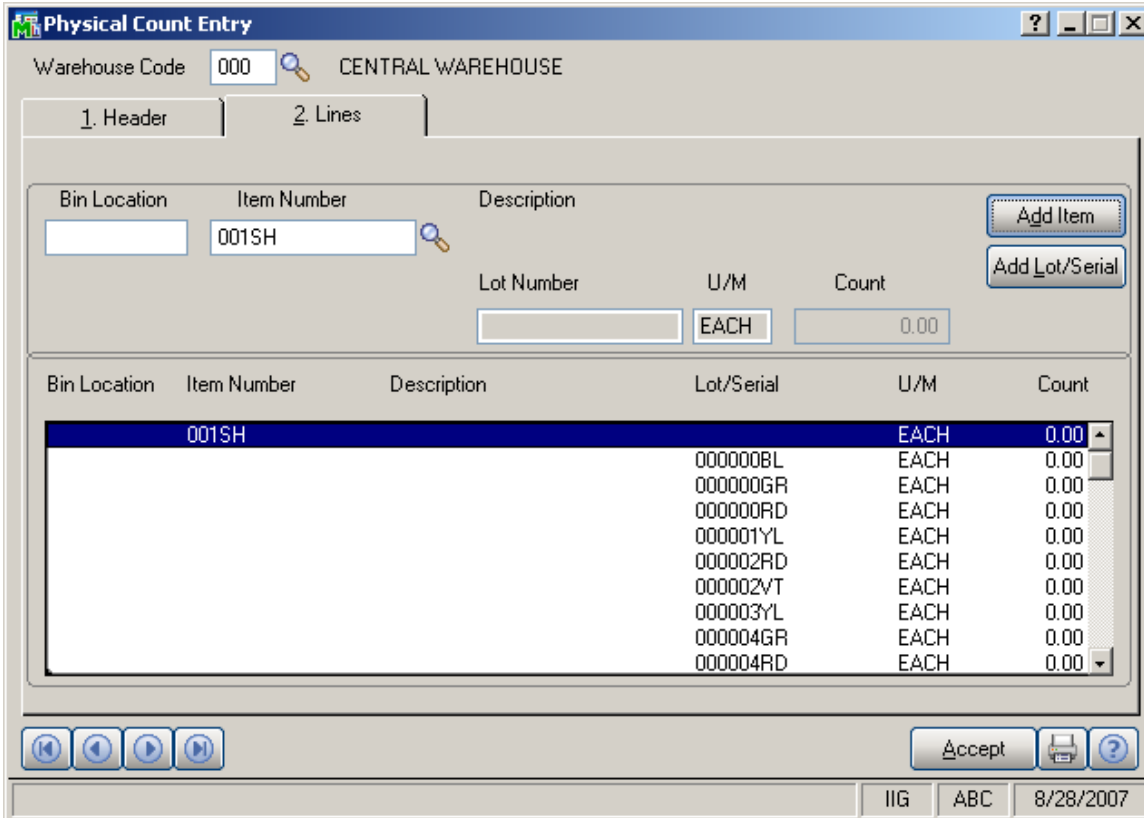
The **Matrix Distribution** screen is displayed when clicking in the Ordered field, if the quantity is zero.

The **Distribution Balance** field displays the difference of **Quantity Ordered** of the Transaction and **Quantity Distributed** in the Matrix Distribution.

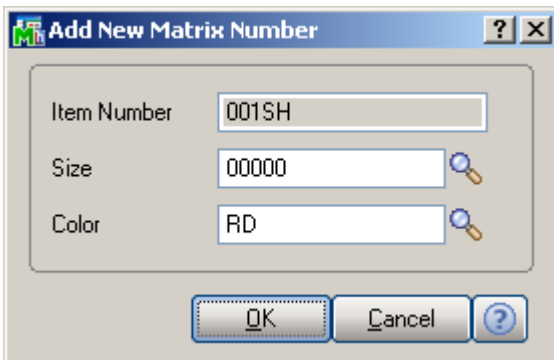
If the **Distribution Balance** is positive, it is displayed in the **Distribute** field when a **Lot Number** is selected either in the Grid or from the Lookup list. Distribution of the Quantity exceeding the Available is also allowed.

### Physical Count Entry

Select the **Physical Count Entry** program under the **Inventory Management Physical** menu.



In the **Lines** tab, when adding a Matrix Item, clicking the **Add Lot/Serial** button displays the following screen instead of the standard:



Enter Codes of the first and second Categories, which descriptions are displayed. You can enter new Matrix Codes, or enter or select from the lookup the existing Matrix Codes.

### *RMA Data and RMA Receipts Entry*

In the **RMA Data Entry** and **RMA Receipts Entry** programs under the **Return Merchandise Authorization**

**Main** menu, if the selected item in the **Lines** tab is a Matrix Item, the **Matrix Distribution** screen will be displayed for the line, instead of the standard Lot/Serial Distribution screen.

The Matrix Distribution screen for the **RMA Entry** programs is the same as in the **Invoice Data Entry** program.

The **Available** Quantities are the quantities available for Return for the selected Customer.



## Production Entry

Select the **Production Entry** program under the **Bill of Materials Main** menu.

Production Entry

Entry Number 0000008 Production Date 08/28/2007 Defaults...

1. Header 2. Lines

Bill Number M1 Description MASTRIX 1

Bill Type Standard

Quantity 10.00 U/M EACH

Parent Warehouse 000 CENTRAL WAREHOUSE

Component Warehouse 000 CENTRAL WAREHOUSE

Explode Sub-Assemblies

Matrix Auto Distribute Lines

Accept Cancel Delete

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To distribute to **Lot Numbers** for Matrix Bill, click the **Matrix** button to open the **Matrix Distribution** screen. This button is not available for non-matrix items.

Check the **Auto Distribute Lines** box to use the Header Bill Matrix distribution for the distribution of the Lines Matrix items. The **Auto Distribute Lines** check box is available only if the **Auto Distribute Lines** is selected in the **Matrix Options**. The Auto Distribution will be done only when entering new **Production Entry**, to the maximum quantity available for distribution in the Lines Matrix items.

Item M1	MASTRIX 1							U/M EACH
	SIZE1	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7	
COLOR1	2.00-/0	1.00-/0	0/0	1.00-/0	1.00-/0	1.00-/0	1.00-/0	
COLOR2	2.00-/0	0/0	1.00-/0	0/0	0/0	1.00-/0	1.00-/0	
COLOR3	4.00-/0	1.00-/0	0/0	1.00-/0	1.00-/0	0/0	1.00-/0	
COLOR4	4.00-/0	1.00-/0	1.00-/0	0/0	1.00-/0	1.00-/0	1.00-/0	
COLOR5	3	1.00-/0	1.00-/0	1.00-/0	0/0	1.00-/0	1.00-/0	
COLOR6	4.00-/0	1.00-/0	1.00-/0	1.00-/0	1.00-/0	1.00-/0	1.00-/0	
COLOR7	5.00-/0	1.00-/0	1.00-/0	1.00-/0	1.00-/0	1.00-/0	1.00-/0	

Available: 10.00    Distribute: 10.00    Distribution Balance: 0.00

Grid column Width: 10

Enter quantities by: Columns

Show Quantities: On Hand  Available  Distributed

If a component in the **Lines** tab is a Matrix Item, the **Matrix Distribution** screen will be displayed for the line, instead of the standard Lot/Serial Distribution screen.

The Matrix Distribution screen for the **Production Entry** program is the same as in the **Invoice Data Entry** program.

### Disassembly Entry

Select the **Disassembly Entry** program under the **Bill of Materials Main** menu.

If the Bill to be disassembled or a component is a Matrix Item, the **Matrix Distribution** screen will be displayed for the item, instead of the standard Lot/Serial Distribution screen.

The Matrix Distribution screen for the **Disassembly Entry** program is the same as in the **Invoice Data Entry** program.

## Work Order Transaction Entry

Select the **Work Order Transaction Entry** program under the **Work Order Main** menu.

Select the **Material Issue** type of the transaction.

If the selected item in the **Lines** tab is a Matrix Item, the **Matrix Distribution** screen will be displayed for the line, instead of the standard Lot/Serial Distribution screen.

The **Matrix Distribution** screen for the **Work Order Transaction Entry** program is the same as in the **Invoice Data Entry** program.

Select the **Completion** type of the transaction.

Work Order Transaction Entry

Transaction No. 0000012 Type Completion Defaults...

1. Header 2. Lines

Original Item Number Description  
M1 MASTRIX 1

Work Order No. Complete to Sales Order Customer  
0000002 Sales Order 0000211 American Business Futures

Complete Item No. Quantity U/M Warehouse Costing  
M1 0.00 EACH 000 Lot

Complete Item Description  
MASTRIX 1

Lot / Serial Distribution, Alt-Y

Line	Work Order	Complete to	Item Number	Whse	Quantity	U/M
1	0000002	Sales Order	M1	000	0.00	EACH

Ins Del

Accept Cancel Delete

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Click the newly added **Lot/Serial Distribution** button to open the **Lot/Serial Distribution** or **Matrix Distribution** screen (same as for the **Production Entry** program), for Lot and Matrix items, correspondingly. This button is not available for Serial, only for Lot and Matrix Items.

## Work Order generation from Sales Orders

### Auto Generate Work Orders from Sales Orders

The **Auto Generate Work Orders from S/O** program has been added under the **Work Order Main** menu.

Select range of the **Sales Order Numbers**, for which you want to generate Work Orders.  
Work Orders are generated only for not Assigned Orders.

You can change the settings for the Work Orders to be generated.

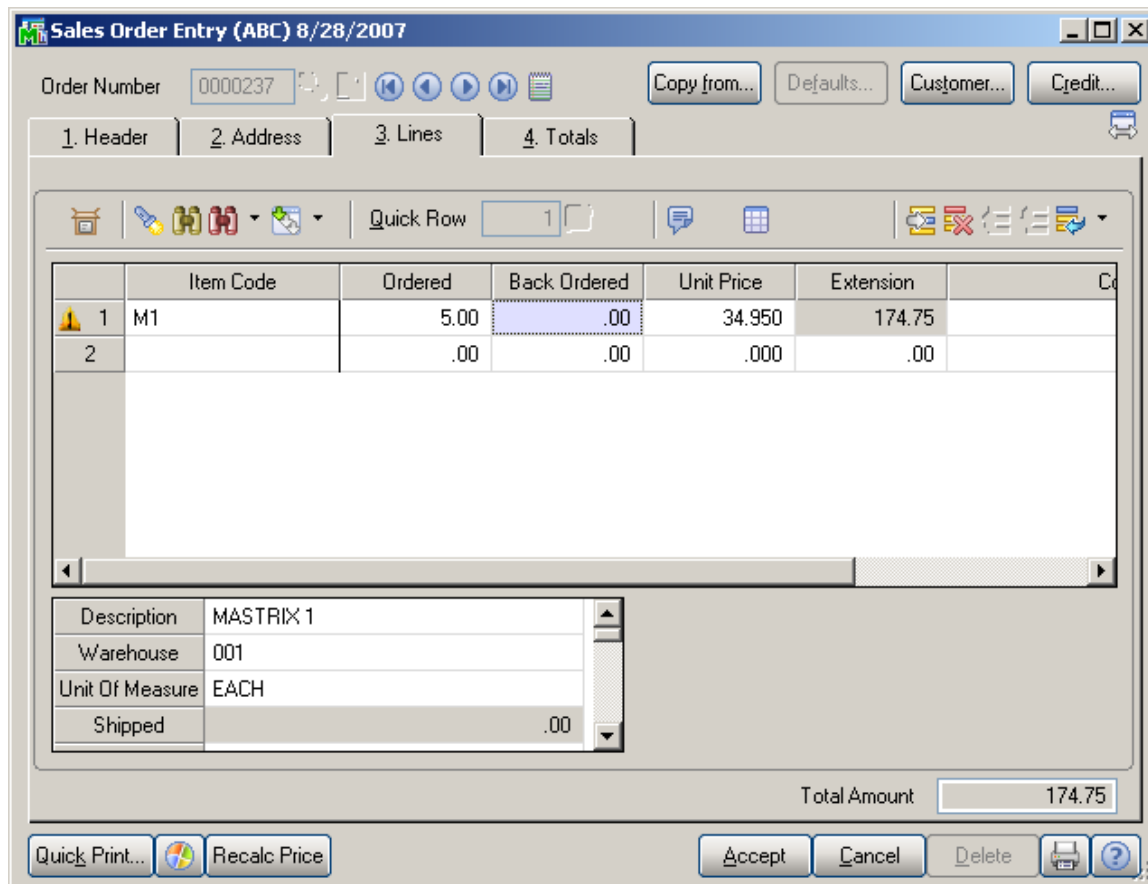
The **Routing** comes from the **Matrix Options**, and can be changed here.

The other settings come from the **Default Values for Work Order Entry**.

Based on the **Summarize by Item and Lot Numbers** option set in the **Matrix Options**, the program will generate separate work orders per Item – Lot Number pair, or summarize different Lot Numbers of the same Item into the same work order. Sales orders are always summarized, that is one work order is generated for the same Item or Item – Lot Number pair, from multiple sales order.

Generated Work Orders

Here is an example of sales order and generated work order, with the **Summarize by Item and Lot Numbers** option selected in **Matrix Options**.



Here is the Matrix Distribution of the selected line item:

Lot/Serial No.- Matrix Distribution Entry

Item Code: M1      MASTRIX 1      U/M: EACH

	SIZE1	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7
COLOR1	00/10.00-/2.00	0/0/0	0/1.00-/0	0/0/0	0/0/0	0/0/0	0/0/0
COLOR2	2.00-/10.00-/0	21.00/7.00/0	0/0/0	0/1.00-/0	0/1.00-/0	0/0/0	0/0/0
COLOR3	2.00-/7.00-/0	0/0/0	31.00/14.00/0	0/0/0	0/0/0	0/1.00-/0	0/0/0
COLOR4	2.00-/8.00-/0	0/0/0	0/0/0	41.00/40.00/0	0/0/0	0/0/0	0/0/0
COLOR5	1.00-/9.00-/0	0/0/0	0/0/0	0/0/0	0.00/14.00/3.00	0/0/0	0/0/0
COLOR6	1.00-/9.00-/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
COLOR7	1.00-/10.00-/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0

	Lot Number	Available	Distribute
1	SIZE1COLOR1	-2	2.00
2	SIZE5COLOR5	16	3.00
3			.00

Qty Distributed: 5.00      Distribution Balance: .00

Grid column Width: 10

Enter quantities by: Columns

Show Quantities:

- On Hand
- Available
- Distributed

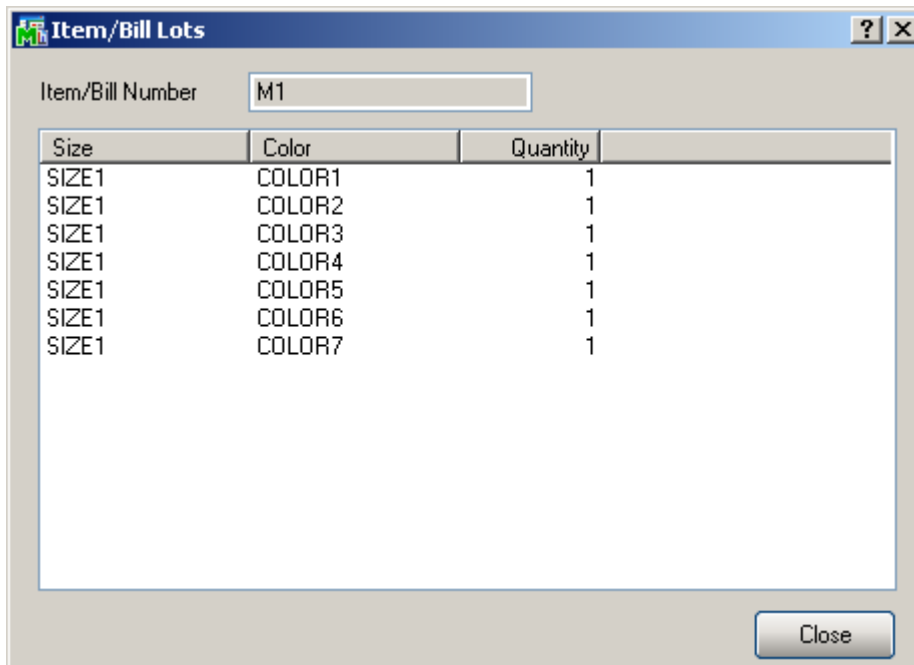
Buttons: OK, Cancel, ?

The generated Work Order is set to the **Make For Sales Order** and the originating **S/O Number** is stored.

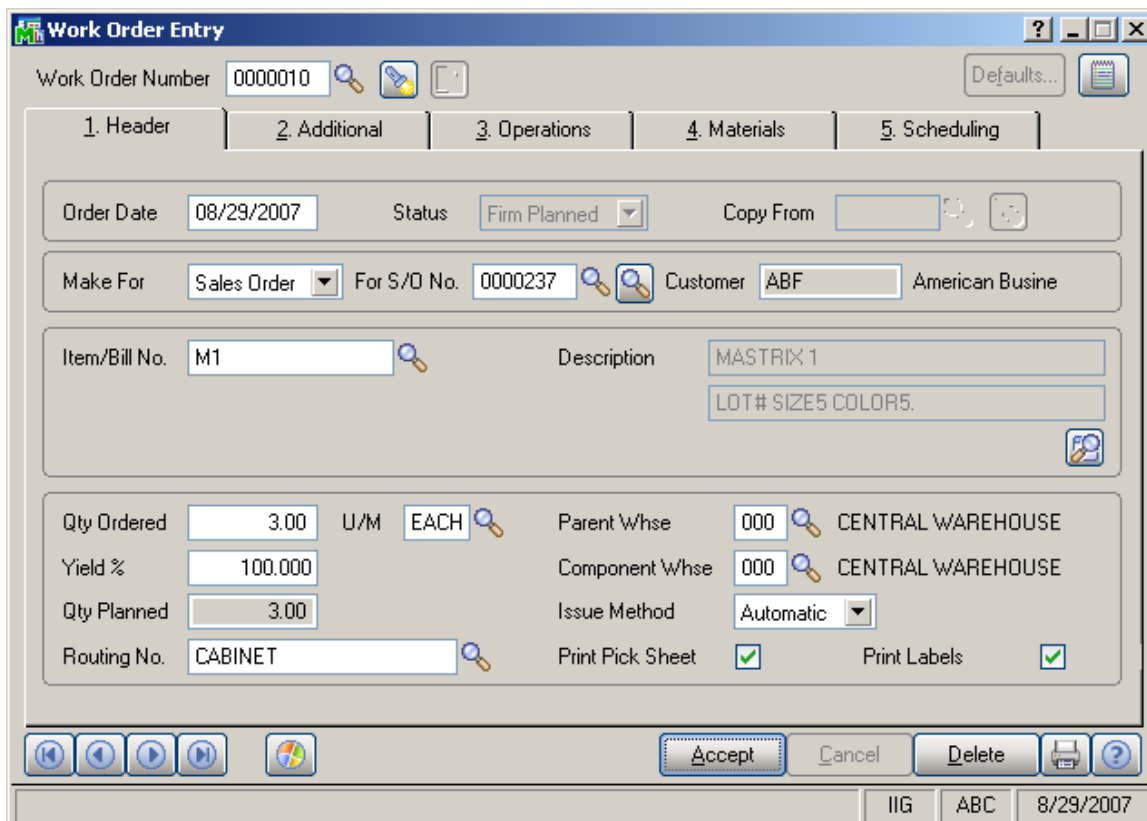
If the **Summarize by Item and Lot Numbers** option has been checked in the **Matrix Options**, the list of the Lot Numbers with the distributed quantities of the generated Sales Order is stored on the generated Work Order, and can be viewed by clicking the **Item/Bill Lots** button.

The Item/Bill Lots list is informational only, and does not taken into account in the further processing of Work Orders.





For Work Orders generated with the **Summarize by Item and Lot Numbers** option not selected, the only Lot Number is displayed in the second Description line.



The second lookup has been added for the **S/O Number** on the **Work Order Entry** screen, to list only Unassigned Orders.

Work Order Entry

Work Order Number 0000010

1. Header | 2. Additional | 3. Operations | 4. Materials | 5. Scheduling

Order Date 08/29/2007 Status Firm Planned Copy From

Make For Sales Order For S/O No. 0000237 Customer ABF American Busine

Item/Bill No. M1 Description MASTRIX 1  
LOT# SIZE5 COLOR5

Qty Ordered 3.00 U/M EACH Parent Whse 000 CENTRAL WAREHOUSE  
Yield % 100.000 Component Whse 000 CENTRAL WAREHOUSE  
Qty Planned 3.00 Issue Method Automatic  
Routing No. CABINET Print Pick Sheet  Print Labels

Accept Cancel Delete

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## Sales Order Assignment

The **Assigned** check box and **Generate Work Orders** button have been added to the **Header** tab of **Sales Order Entry**.

You can generate Work Orders for the currently selected order directly from this screen, clicking the **Generate Work Orders** button.

Once Work Orders are generated for a Sales Order, the **Assigned** box is automatically checked on that Sales Order. You can clear the box to generate new work orders for the same sales order (if the generated ones got deleted by mistake, for example).

You can check the **Assigned** box for a Sales Order, to exclude it from automatic Work Order generation.

Work Orders are generated with the generation program only for not Assigned Orders.

## Predefined Distribution in Bills

### Bill of Materials Maintenance

The **Predefined Distribution** button has been added to the **Lines** tab of the **Bill of Materials Maintenance**.

It is only available for Matrix Component lines of Matrix Bill items of **Standard Bill Type**.

Bill of Materials Maintenance

Bill Number: M1    Description 1: MASTRIX 1  
 Bill Type: Standard    Description 2:

1. Header    2. Lines

Item Number: M2    Description: MASTRIX 1

Find No.:    Step No.:    Quantity/Bill: 1.00    U/M: EACH

Line	Item Number	Find No.	Step No.	U/M	Quantity/Bill
1	1001-HON-H252			EACH	1.00
2	M2			EACH	1.00

Buttons: Ins, Del, Predefined Distribution - Alt+Y, Accept, Cancel, Delete, Help

Status: IIG ABC 8/29/2007

Clicking the **Predefined Distribution** button opens the **Predefined Distribution Maintenance** screen for the selected component.

Predefined Distribution Maintenance

Bill Number M1 MASTRIX 1

Item Number M2 MASTRIX 1

Bill Lot No. Component Lot No. Quantity 0.00

OK Undo

Component Lot No.	Quantity
-------------------	----------

Del Balance 1.00 Quantity 1.00 Close

Select a **Bill Lot No.**, and distribute the **Quantity** displayed at the bottom of the screen to the **Component Lot Numbers**.

Distribution for the currently selected **Bill Lot Number** is displayed in the list.

It is recommended to make complete distribution for each selected **Bill Lot Number** (that is, so that **Balance** at the bottom of the screen is zero), to use the **Predefined Distribution** feature effectively.

Predefined Distribution Maintenance

Bill Number: M1 MASTRIX 1

Item Number: M2 MASTRIX 1

Bill Lot No.: SIZE2COLOR2    Component Lot No.:    Quantity: 0.00

Component Lot No.	Quantity
SIZE1COLOR5	100.00

Del    Balance: 99.00    Quantity: 1.00    Close

While the first lookup of the **Bill Lot No.** lists all the Lot Numbers of the Bill Item, the second displays only already entered (distributed) Lots.

**Predefined Distribution Maintenance** [?] [X]

Bill Number  MASTRIX 1

Item Number  MASTRIX 1

Bill Lot No.    Component Lot No.   Quantity

Existing Records - Alt+R

Component Lot No.	Quantity
-------------------	----------

Balance  Quantity

**Matrix Lot List** [?] [Min] [Max] [X]

LotSerialNumber

000008R
---------

Search

Found 1 records | IIG | ABC | 1/11/2007

### Work Order and Auto Issue

Make sure the **Work Order Issue Method** is set to **Automatic** and the **Auto Issue Method Transactions** to **Yes** or to **Available Quantity Only**, in the **Work Order Options**.

**Work Order Options**

1. Main | 2. Additional | 3. User-Defined | 4. Integrate | 5. Forms

Print Work Order Travelers Upon Release	<input type="checkbox"/>	Automatically Increment Steps By	010
Print Material Listing on Work Order Traveler	<input checked="" type="checkbox"/>	Retain Work Order Transaction Detail	<input type="checkbox"/>
Material Print Format	Material First	Print WOs on Back Order Fill Report	<input type="checkbox"/>
		Future Days to Print Work Orders	
Print Picking Sheets	Sort by Work Order	Allow Memo Inquiry from Data Entry	Yes
Sort Items by Bin Location	<input type="checkbox"/>	Addition of Work Centers and Op Codes	None
Page Break by Step Number	<input type="checkbox"/>	Work Order Issue Method	Automatic
Print Picking Sheets Upon Work Order Release	<input type="checkbox"/>		
Auto Issue Material Transactions	Yes	Auto Generate Labor Transactions	<input type="checkbox"/>
Auto Issue Material Shortage Report Format	None	Auto Generate Outside Processing	<input type="checkbox"/>

Accept Cancel [Print] [Help]

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If a Matrix Bill Item is entered in a new Work Order, the **Matrix Lot** screen is displayed when going to the **Operations** tab.

The screenshot shows the 'Work Order Entry' window with the following details:

- Title Bar:** Work Order Entry
- Work Order Number:** 0000011
- Tabs:** 1. Header (selected), 2. Additional, 3. Operations, 4. Materials, 5. Scheduling
- Order Date:** 08/29/2007
- Status:** Firm Planned
- Copy From:** (empty field)
- Make For:** Inventory
- Item/Bill No.:** M1
- Description:** MASTRIX 1
- Qty Ordered:** 2.00
- U/M:** EACH
- Parent Whse:** 000 CENTRAL WAREHOUSE
- Yield %:** 100.000
- Component Whse:** 000 CENTRAL WAREHOUSE
- Qty Planned:** 2.00
- Issue Method:** Automatic
- Routing No.:** CABINET
- Print Pick Sheet:**
- Print Labels:**
- Buttons:** Accept, Cancel, Delete, Print, Help
- Status Bar:** IIG ABC 8/29/2007

Matrix Lot	Quantity
SIZE1COLOR7	1.00
SIZE3COLOR1	1.00

Distribute the **Quantity Ordered** by selecting **Matrix Lot Numbers** and entering appropriate **Quantities**.

If the **Lot Number** of the Bill Item has **Predefined Distribution**, the program will try to use it when generating **Material Issue Transaction** during **Work Order Transaction Journal** update of the corresponding Release Transaction.



Here is the generated **Material Issue Transaction**.

The **\*AUTO-GENERATED\*** text is displayed on the **Lines** tab.

Work Order Transaction Entry

Transaction No. 0000014 Type Material Issue Defaults...

1. Header 2. Lines

Work Order No. Step No. Step Description Std. Cost \*AUTO-GENERATED\* Substitute Material  OK

Item Number Item Description Whse U/M Issue Qty Undo

Orig Item Number Orig Item Description Orig Whse Orig U/M Orig Qty

Line	Work Order	Step	Subst. Matl.	Item Number	Whse	U/M	Issue Quantity	Dist.
1	0000011	0000	N	1001-HON-H252	000	EACH	2.00	
2	0000011	0000	N	M2	000	EACH	2.00	N

Ins Del

Accept Cancel Delete

IIG ABC 8/29/2007

The Matrix Components are distributed automatically using the **Predefined Distribution** for the **Lot Numbers**, to which the Bill Item has been distributed in the Work Order.

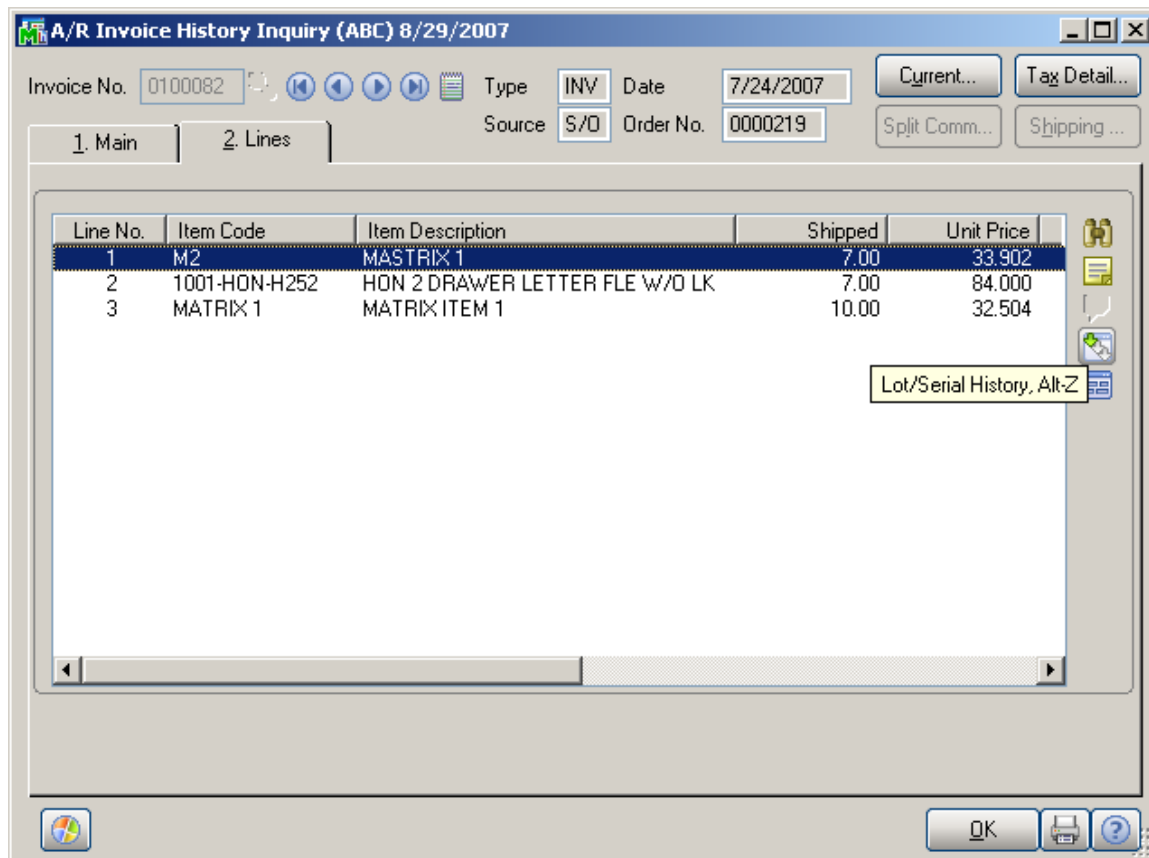
The components distribution cannot be done or will be done partially because of one of the following reasons:

- Insufficient Available Quantity for one of the component's Lots.
- Incomplete distribution for one of the Bill's Lots specified in the **Predefined Distribution Maintenance** (non-zero **Balance**).
- No Predefined Distribution specified for one of the Bill's Lots.
- Incomplete distribution of Bill Item on Work Order (non-zero **Balance** in the **Matrix Lot** screen).

## Inquiries

### Invoice History Inquiry

The **Lot/Serial History** button has been added to the **Lines** tab of **Invoice History Inquiry**, to display the list of the Matrix Lot Numbers as displayed in the **Sales Order Entry**.



**Lot/Serial History** [?] [ ] [X]

Item Code:  MASTRIX 1

	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7	SIZE1
COLOR1	0/2.00-/0	0/6.00-/0					0.00-/7.00-/1.0
COLOR2	0/4.00-/0						0.00-/6.00-/1.0
COLOR3	0/3.00-/0						0.00-/3.00-/1.0
COLOR4							0.00-/3.00-/1.0
COLOR5		0/5.00-/0					0.00-/3.00-/1.0
COLOR6		0/7.00-/0			0/6.00-/0		0.00-/3.00-/1.0
COLOR7						0/10.00-/0	0.00-/3.00-/1.0

Lot/Serial No.	Quantity	Unit Price	Amount
SIZE1COLOR1	1.00	33.902	33.90
SIZE1COLOR2	1.00	33.902	33.90
SIZE1COLOR3	1.00	33.902	33.90
SIZE1COLOR4	1.00	33.902	33.90
SIZE1COLOR5	1.00	33.902	33.90
SIZE1COLOR6	1.00	33.902	33.90
SIZE1COLOR7	1.00	33.902	33.90

Grid column Width:

Show Quantities:

- On Hand
- Available
- Distributed

Total Quantity:

Purchase Order Inquiry

The **Lot/Serial Distribution** button on the **Lines** tab of the **Purchase Order Inquiry** screen displays the **Matrix Distribution Grid** for reviewing (display-only), when Matrix Item is selected.

The screenshot shows the 'Purchase Order Inquiry' window with the 'Lines' tab selected. The 'Order Number' is 0010027. The 'Item Number' is M3. The 'Lot / Serial Distribution, Alt-Y' button is highlighted. Below it is a table with the following data:

Line	Item Number	Description	TC	UT	Req Date	G/L Account	Extension
Whse	U/M	Ordered	Received	Back Order	Unit Cost		
1	M3	MASTRIX 3	TX	N	07/23/2007	15-00-03	
	000	CASE	170.00	170.00	0.00	1,575.000	267,750.00
2	001SH		TX	N	07/23/2007	15-00-03	
	000	CASE	2.00	0.00	2.00	4,991.000	9,982.00

The 'Total Amount' is 277,732.00. The window also shows navigation buttons and a status bar with 'IIG ABC 8/29/2007'.

## Printings

### Matrix Sales History Report

Select the **Matrix Sales History Report** program under the **Inventory Management Reports** menu.

The report has been added to print Sales History for Matrix Items.

The screenshot shows the 'Matrix Sales History Report' dialog box. The 'Item Sales Option' is set to 'All Items Regardless of Activity Level'. Under 'Product Type to Print' and 'Procurement Type', both are set to 'All'. 'Print Ship-to Detail' is unchecked. 'Page by Cust' is checked. The 'Data to Print' section has five checked items: Qty Sold, Dollars Sold, Profit Percent, Cost of Goods, and Qty Returned. The 'Selection' section has columns for 'All', 'Starting', and 'Ending'. The 'All' column has checkboxes for Item Number, Size, Color, and Product Line, all of which are checked. The 'Starting' and 'Ending' columns have input fields with search icons. A 'Categories...' button is to the right. At the bottom, there is a printer selection dropdown set to '[Deferred] Adobe PDF', and buttons for 'Print', 'Preview', 'Printer Setup...', and a help icon. The status bar at the bottom right shows 'IIG', 'ABC', and '8/29/2007'.

The selections are similar to the **Inventory Sales History Report**. In addition, Matrix Items can be filtered by two **Categories** specified in the **Matrix Options** program (**Size** and **Color**).



## Matrix Stock Status Report

Select the **Matrix Stock Status Report** program under the **Inventory Management Reports** menu.

The report has been added to print Stock Status for Matrix Items.

The screenshot shows the 'Matrix Stock Status Report' dialog box. It features a 'Sort Options' section with a dropdown menu set to 'Item Number'. Below this are three dropdown menus for 'Product Type to Print' (set to 'All'), 'Procurement Type to Print' (set to 'All'), and a checked checkbox for 'Print Zero Balances'. To the right, there are two rows of controls: 'Inventory Cycle to Print' (set to 'All' with a checked box) and 'Warehouse' (set to 'All' with a checked box and a search icon), followed by an unchecked checkbox for 'Print Lot Numbers with Zero Qty'. The main area is a table with columns for 'Selection', 'All', 'Starting', and 'Ending'. The 'Starting' and 'Ending' columns have search icons. The 'Ending' column has hatched patterns for 'Item Number', 'Size', and 'Color'. At the bottom, there are buttons for 'Print', 'Preview', and 'Printer Setup...', and a status bar with 'IIG', 'ABC', and '8/29/2007'.

The selections are similar to the **Inventory Stock Status Report**. In addition, Matrix Items can be filtered by two **Categories** specified in the **Matrix Options** program (**Size** and **Color**).

Only existing Lot Numbers will be printed in the report. Lot Numbers with no quantity available can be set to be printed by checking the **Print Lot Numbers with Zero Qty** box.

Here is an example of the printout:

Matrix Stock Status Report

ABC Distribution and Service Corp

MATRIX STOCK STATUS REPORT

SORTED BY ITEM NUMBER

ITEM NUMBER VENDOR NUMBER	DESCRIPTION/ PROD LN	PROD TYP	UNIT	WHSE	SIZE	COLOR	QUANTITY		RE-ORDER POINT	AVERAGE COST
							ON HAND	AVAILABLE		
001SH	FD&A	FINISHED GOOD	EACH	000	SIZE3	COLOR3	490.00	490.00	CYCLE:	49.910
					SIZE4	COLOR5	2790.00	2790.00		
					SIZE4	COLOR6	2790.00	2790.00		
					SIZE6	COLOR2	600.00	600.00		
					SIZE6	COLOR7	2000.00	2000.00		
					SIZE1	COLOR1	990.00	990.00		
					SIZE1	COLOR2	1990.00	1990.00		
				WHSE 000 TOTAL:			11650.00	11650.00		
				001	SIZE2	COLOR3	0.00	50.00		
					SIZE2	COLOR5	0.00	25.00		
					SIZE3	COLOR7	0.00	33.00		
					SIZE6	COLOR3	0.00	7.00		
					SIZE7	COLOR5	0.00	4.00		
					SIZE1	COLOR1	0.00	10.00		
				WHSE 001 TOTAL:			0.00	129.00		
				ITEM 001SH TOTAL:			11650.00	11521.00	0.00	
M1	MASTRIX 1	FINISHED GOOD	EACH	000	SIZE1	COLOR1	1.00	2.00	CYCLE:	18.467
01-UNITED	FD&A				SIZE1	COLOR2	2.00	2.00		
					SIZE1	COLOR3	0.00	4.00		
					SIZE1	COLOR4	0.00	4.00		
					SIZE1	COLOR5	0.00	3.00		

Page: 1

**Matrix Stock Status Report (grid)**

Select the **Matrix Stock Status Report (grid)** program under the **Inventory Management Reports** menu.

The settings and selections are the same as in the **Matrix Stock Status Report** program.

The printout is arranged in grid form:

The screenshot shows a window titled "Matrix Stock Status Report (grid)" for "ABC Distribution and Service Corp". The report is titled "MATRIX STOCK STATUS REPORT (GRID)" and is sorted by item number. It displays a table with columns for item number, vendor number, description, prod ln, prod typ, unit, whse, re-order point, and average cost. The data is organized into two sections: "000" and "001".

ITEM NUMBER	VENDOR NUMBER	DESCRIPTION/ PROD LN	PROD TYP	UNIT	WHSE	RE-ORDER POINT	AVERAGE COST	
M1	01-UNITED	MASTRIX 1 FD&A	FINISHED GOOD	EACH	000	CYCLE:	18.467	
000								
		SIZE1	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7
		COLOR1	2.00-	1.00-	1.00-	1.00-	1.00-	1.00-
		COLOR2	2.00-	1.00-			1.00-	1.00-
		COLOR3	4.00-	1.00-	1.00-	1.00-		1.00-
		COLOR4	4.00-	1.00-	1.00-	1.00-	1.00-	1.00-
		COLOR5	3.00-	1.00-	1.00-		1.00-	1.00-
		COLOR6	4.00-	1.00-	1.00-	1.00-	1.00-	1.00-
		COLOR7	5.00-	1.00-	1.00-	1.00-	1.00-	1.00-
001								
		SIZE1	SIZE2	SIZE3	SIZE4	SIZE5	SIZE6	SIZE7
		COLOR1	12.00-	1.00-				
		COLOR2	10.00-	7.00-	1.00-	1.00-		
		COLOR3	7.00-	14.00-			1.00-	

The grid will be printed even if there is no quantity in the warehouse (empty grid).

**Matrix Committed Report**

Select the **Matrix Committed Report** program under the **Inventory Management Reports** menu.

The report has been added to print Quantities on Sales Orders and Quantities on Purchase Orders for Matrix Items.

Here is an example of the printout:

MATRIX COMMITTED REPORT  
ABC Distribution and Service Corp  
SORTED BY ITEM NUMBER

ITEM NUMBER VENDOR NUMBER	DESCRIPTION/ PROD LN	PROD TYP	UNIT	WHSE	SIZE	COLOR	QUANTITY				AVG COST	
							ON HAND	ON P.O.	ON S.O.	ON B.O.		AVAIL.
001SH	FD&A	FINISHED GOOD	EACH	000	SIZE3	COLOR3	490.00	0.00	0.00	0.00	490.00	49.910
					SIZE4	COLOR5	2790.00	0.00	0.00	0.00	2790.00	
					SIZE4	COLOR6	2790.00	0.00	0.00	0.00	2790.00	
					SIZE6	COLOR2	600.00	0.00	0.00	0.00	600.00	
					SIZE6	COLOR7	2000.00	0.00	0.00	0.00	2000.00	
					00000	BL	0.00	200.00	0.00	0.00	0.00	
					00000	GR	0.00	200.00	0.00	0.00	0.00	
					00000	RD	0.00	200.00	0.00	0.00	0.00	
					00000	VT	0.00	200.00	0.00	0.00	0.00	
					00000	YL	0.00	200.00	0.00	0.00	0.00	
					00000	OBL	0.00	200.00	0.00	0.00	0.00	
					00000	OGR	0.00	400.00	0.00	0.00	0.00	
					00000	ORD	0.00	200.00	0.00	0.00	0.00	
					00000	1YL	0.00	300.00	0.00	0.00	0.00	
					00000	2RD	0.00	400.00	0.00	0.00	0.00	
					00000	2VT	0.00	400.00	0.00	0.00	0.00	
					00000	3YL	0.00	500.00	0.00	0.00	0.00	
					00000	4GR	0.00	300.00	0.00	0.00	0.00	
					00000	4RD	0.00	600.00	0.00	0.00	0.00	
					00000	4YL	0.00	1200.00	0.00	0.00	0.00	
					SIZE1	COLOR1	990.00	0.00	0.00	0.00	990.00	
					SIZE1	COLOR2	1990.00	0.00	0.00	0.00	1990.00	
					WHSE 000 TOTAL:		11650.00	5500.00	0.00	0.00	11650.00	
					001	SIZE2	0.00	0.00	50.00	0.00	50.00-	
						SIZE2	0.00	0.00	25.00	0.00	25.00-	
						SIZE3	0.00	0.00	33.00	0.00	33.00-	

### Open Orders by Matrix Item Report

Select the **Open Orders by Matrix Item Report** program under the **Sales Order Reports** menu.

The report has been added to print information of open Sales Orders with Matrix Items' Lot quantities.

Open Orders by Matrix Item Report (ABC) 8/29/2007

Report Setting: STANDARD

Description: Open Orders by Matrix Item Report

Setting Options:

- Type: Public
- Print Report Settings:
- Number of Copies: 1
- Default Report:
- Three Hole Punch:
- Collated:

1. Main | 2. Select

Sales Order Types to Print:

- All Types:
- Standard Orders:
- Back Orders:
- Print Summary Report:

Deferred

Print Preview Setup ?

The information to be printed can be also selected by Matrix Categories (usually Size and Color).

You can set to **Print Summary Report**, to not print separate orders but only summarized information.

Here is an example of the printout:

**View Open Orders By Matrix Item Report**  
 powered by crystal

Preview

1 / 1+

**Open Orders By Matrix Item Report**  
 Order Types: Back, Std

**ABC Distribution and Service Corp. (ABC)**

Item Number	Order No	Type	Description Promise		Customer Number/Name	Wise	Quantity				Extension	
			eSM Order Date	Color			Ordered	Shipped	Back Ordered	Net Order		
<b>001SH</b>												
0000229	Std		8/28/2007	8/28/2007	01-ABF	American Business Futures	001	100.00	0.00	0.00	100.00	3,495.00
	SIZE1			COLOR1							10.00	
	SIZE2			COLOR3							50.00	
	SIZE2			COLOR5							25.00	
	SIZE3			COLOR7							33.00	
	SIZE6			COLOR3							7.00	
	SIZE7			COLOR5							4.00	
0000233	Std		8/28/2007	8/28/2007	01-ABF	American Business Futures	001	0.00	0.00	0.00	0.00	0.00
<b>M1</b>												
<b>MASTRIX 1</b>												
0000174	Std		6/23/2006	6/23/2006	01-ABF	American Business Futures	001	10.00	0.00	0.00	10.00	325.04
	SIZE1			COLOR1							10.00	
0000175	Std	M	6/26/2006	6/26/2006	99-0000010	Name	001	7.00	0.00	0.00	7.00	216.97
	SIZE1			COLOR1							2.00	
	SIZE2			COLOR2							2.00	
	SIZE3			COLOR3							3.00	
0000177	Std		6/26/2006	6/26/2006	01-ABF	American Business Futures	001	6.00	0.00	0.00	6.00	179.68
	SIZE1			COLOR1							1.00	
	SIZE1			COLOR2							2.00	
	SIZE2			COLOR2							3.00	
0000178	Std	M	6/26/2006	6/26/2006	99-0000010	Name	001	6.00	0.00	0.00	6.00	203.40
	SIZE1			COLOR1							1.00	
	SIZE1			COLOR2							2.00	
	SIZE2			COLOR2							3.00	
0000180	Std	M	6/26/2006	6/26/2006	01-ABF	American Business Futures	001	6.00	0.00	0.00	6.00	186.46
	SIZE1			COLOR1							1.00	
	SIZE2			COLOR2							2.00	
	SIZE3			COLOR3							3.00	

### Open PO by Matrix Item Report

Select the **Open PO by Matrix Item Report** program under the **Purchase Order Reports** menu.

The report has been added to print information of open Purchase Orders with Matrix Items' Lot quantities.

Selection	All	Starting	Ending
Item Number	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text" value="Hatched"/>
Size	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
Color	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
Item Description	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Product Line	<input checked="" type="checkbox"/>	<input type="text"/>	
Warehouse	<input checked="" type="checkbox"/>	<input type="text"/>	

The information to be printed can be also selected by Matrix Categories (usually Size and Color).

You can set to **Print Summary Report**, to not print separate orders but only summarized information.

Here is an example of printout:

Open P. O. by Matrix Item Report

ABC Distribution and Service Co

OPEN P. O. BY MATRIX ITEM REPORT

ORDER TYPES: STD

ITEM NUMBER/ P.O. NO.	DATE TYPE ORDER	REQRD	VENDOR NO	NAME	STAT	WHS	QUANTITY			UNIT COST	EXTENS
							ORDERED	RECEIVED	BACK ORD		
0010027	STD 07/23/07	07/23	01-ALLCLIM	Allclimate Maintenance	UM: EACH	BACK 000	200.00	0.00	200.00	49.910	9,982.0
0010028	STD 08/28/07	08/28	01-AIRWAY	Airway Property	UM: EACH	NEW 000	4500.00	0.00	0.00	49.910	224,595.0
00000		OBL		2.00							
00000		OGR		4.00							
00000		ORD		2.00							
00000		1YL		3.00							
00000		2RD		4.00							
00000		2VT		4.00							
00000		3YL		5.00							
00000		4GR		3.00							
00000		4RD		6.00							
00000		4YL		12.00							
0010030	STD 08/28/07	08/28	01-AIRWAY	Airway Property	UM: EACH	NEW 000	1000.00	0.00	0.00	49.910	49,910.0
00000		BL		2.00							
00000		GR		2.00							
00000		RD		2.00							
00000		VT		2.00							
00000		YL		2.00							
ITEM 001SH TOTAL:							5700.00	0.00	200.00		284,487.0
M3	MASTRIX 3				UM: EACH						
0010027	STD 07/23/07	07/23	01-ALLCLIM	Allclimate Maintenance	UM: EACH	BACK 000	17000.00	17000.00	0.00	15.750	0.0
ITEM M3 TOTAL:							17000.00	17000.00	0.00		0.0
M4	MASTRIX 4				UM: EACH						
0010018	STD 06/26/06	06/26	01-AIRWAY	Airway Property	UM: EACH	BACK 000	3800.00	3800.00	0.00	15.750	0.0
ITEM M4 TOTAL:							3800.00	3800.00	0.00		0.0

Page: 1



Inventory Valuation Report

Select the **Inventory Valuation Report** program under the **Inventory Management Reports** menu.

The report has been modified to display Lot Numbers for Matrix Items as a pair of Matrix Codes with their Category Descriptions.

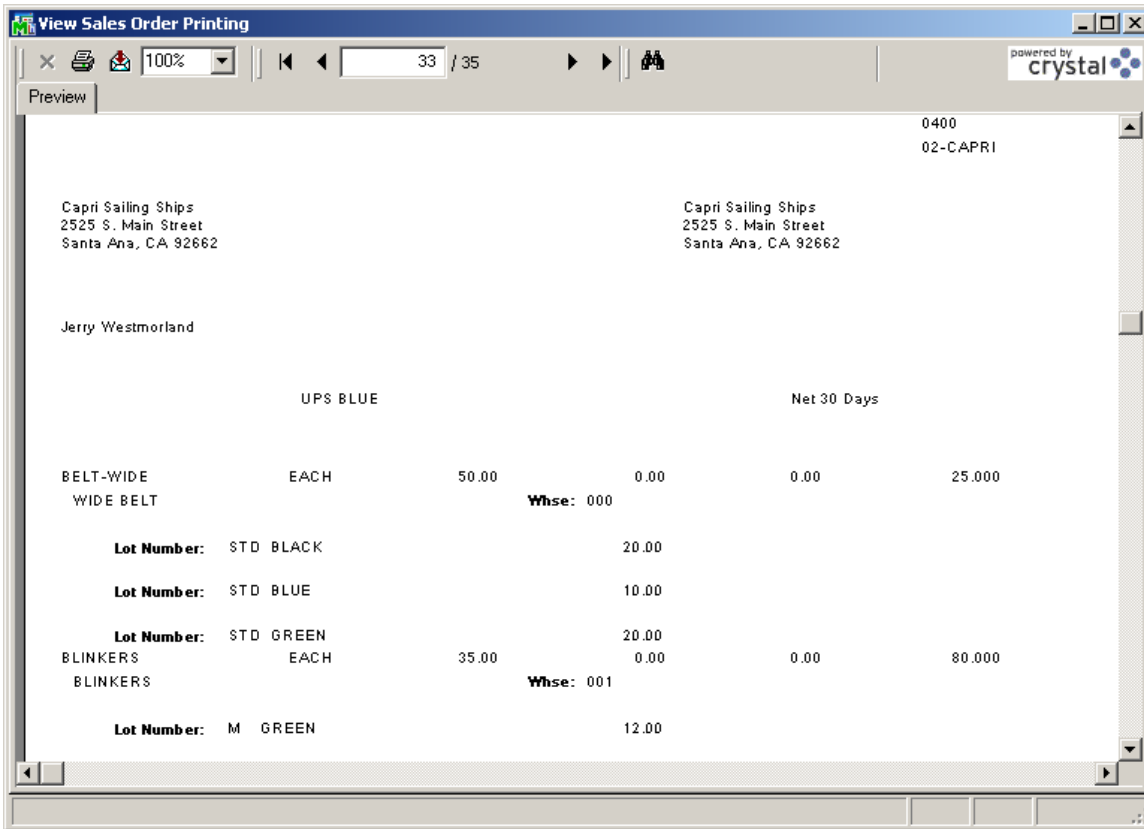
INVENTORY VALUATION REPORT											
ABC Distribution and Service Co											
SORTED BY ITEM NUME											
ITEM NUMBER	DESCRIPTION/ PROD LN	PROD TYP	VAL	WHSE	U/M	LOT/SERIAL NO	RECEIPT NUMBER	RECEIPT DATE	QUANTITY ON HAND	UNIT COST	INVENTORY VALUE
001SH	FD&A	FINISHED GOOD	LOT	000	EACH						
					Size : SIZE1	Color: COLOR1	00000017	08/28/07	990.00	49.910	49,410.90
					Size : SIZE1	Color: COLOR2	00000017	08/28/07	1,990.00	49.910	99,320.90
					Size : SIZE3	Color: COLOR3	00000017	08/28/07	490.00	49.910	24,455.90
					Size : SIZE4	Color: COLOR5	00000017	08/28/07	2,790.00	49.910	139,248.90
					Size : SIZE4	Color: COLOR6	00000017	08/28/07	2,790.00	49.910	139,248.90
					Size : SIZE6	Color: COLOR2	00000017	08/28/07	600.00	49.910	29,946.00
					Size : SIZE6	Color: COLOR7	00000017	08/28/07	2,000.00	49.910	99,820.00
							WAREHOUSE 000 TOTAL:		11,650.00	49.910	581,451.50
				001					0.00	.000	.00
				002					0.00	.000	.00
				097					0.00	.000	.00
				098					0.00	.000	.00
							ITEM 001SH TOTAL:		11,650.00	49.910	581,451.50
1001-HON-H252	HON 2 DRAWER LETTER FLE W/O LK WF&A	FINISHED GOOD	FIF	000	EACH						
							00000009	05/01/03	2,463.00	34.250	84,357.75
							RC-721	05/01/03	55.00	34.250	1,883.75
							G001009	05/10/03	30.00	34.250	1,027.50
							G001010	05/15/03	70.00	34.250	2,397.50
							00000001	05/31/03	10.00	34.250	342.50
							G001007	05/31/03	10.00	34.250	342.50
							00000015	07/20/07	1.00	34.250	34.25
							00000004	07/23/07	2.00	34.250	68.50
							WAREHOUSE 000 TOTAL:		2,641.00	34.250	90,454.25
				001			OVERDIST		8.00-	34.250	274.00
							00000008	05/01/03	986.00	34.250	33,770.50

Other Printing Forms

**Preprinted Lazer**

The **Preprinted** form of graphical printing in **Sales Order, S/O Invoice, Picking Sheet, and Purchase Order** have been modified to display Lot Numbers for Matrix Items as a pair of Matrix Codes with their Category Descriptions.

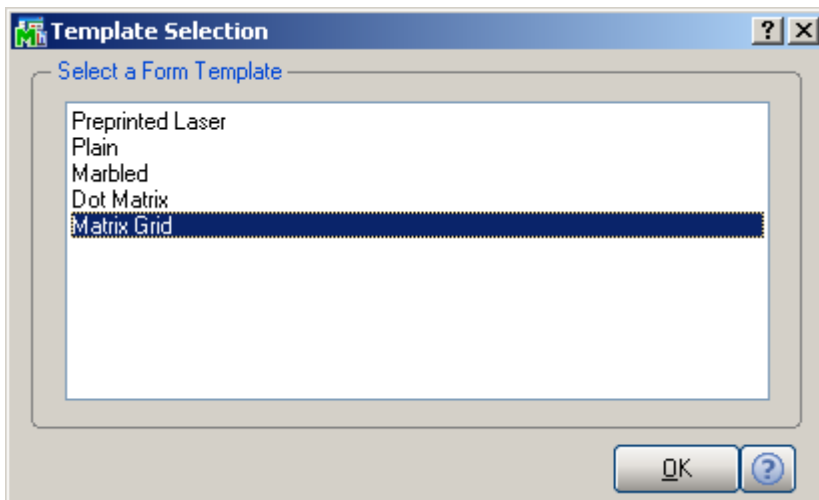
Here is an example of printout:



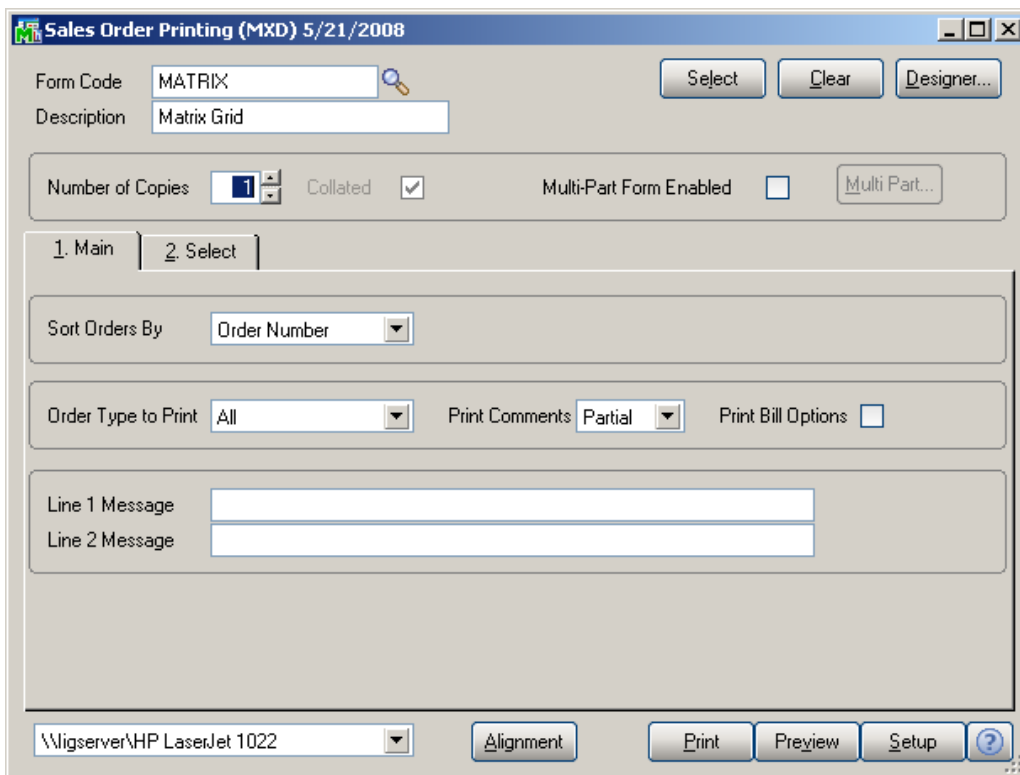
*The numbers of **Matrix Codes** in the **Line Temporary Work** files are 50 for the Matrix form in the graphical printings of the **Sales Order, Picking Sheet, Sales Order Invoice and Purchase Order**.*

### Matrix Grid

The **Matrix Grid** printing form has been added to the graphical printing Form Templates to allow printing the Matrix Distribution grid information on the report.



This form is available for the Sales Order, S/O Invoice, Picking Sheet, Packing List and Purchase Order Printings.



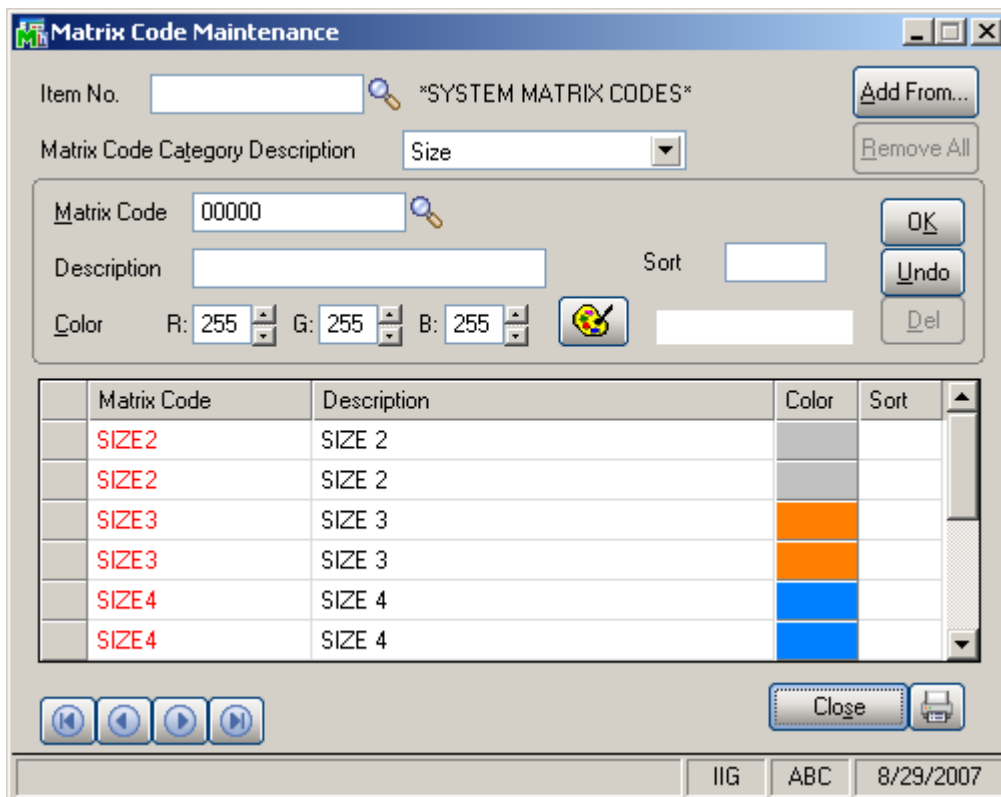


Matrix Codes Sorting in Printings

The following printings display information in the order according to the **Sort** field of **Matrix Codes**.

- Purchase Order Printing
- Picking Sheet Printing
- Sales Order Printing
- S/O Invoice Printing
- Matrix Sales History Report
- Matrix Stock Status Report
- Matrix Stock Status Report (Grid)
- Matrix Committed Report
- Open Orders by Matrix Items Report

Here is an example:



Matrix Code Report

ABC Distribution and Service Co

MATRIX CODE REPORT

ITEM NUMBER	CODE	DESCRIPTION	SORT
*SYSTEM MATRIX CODES*			
Size --	SIZE2	SIZE 2	
	SIZE2	SIZE 2	
	SIZE3	SIZE 3	
	SIZE3	SIZE 3	
	SIZE4	SIZE 4	
	SIZE4	SIZE 4	
	SIZE5	SIZE 5	
	SIZE5	SIZE 5	
	SIZE6	SIZE 6	
	SIZE6	SIZE 6	
	SIZE7	SIZE 7	
	SIZE7	SIZE 7	
Color --	COLOR1	COLOR 1 1	
	COLOR1	COLOR 1 1	
	COLOR2	COLOR 2 2	
	COLOR2	COLOR 2 2	
	COLOR3	COLOR 3 3	
	COLOR3	COLOR 3 3	
	COLOR4	COLOR 4 4	
	COLOR4	COLOR 4 4	
	COLOR5	COLOR 5 5	
	COLOR5	COLOR 5 5	
	COLOR6	COLOR 6 6	
	COLOR6	COLOR 6 6	
	COLOR7	COLOR 7 7	
	COLOR7	COLOR 7 7	
001SH			
Size --	00000	29	0
	00001	30	1
	00002	31	2
Color --	BL	BLUE	
	GR	GREEN	
	RD	RED	

Page: 1

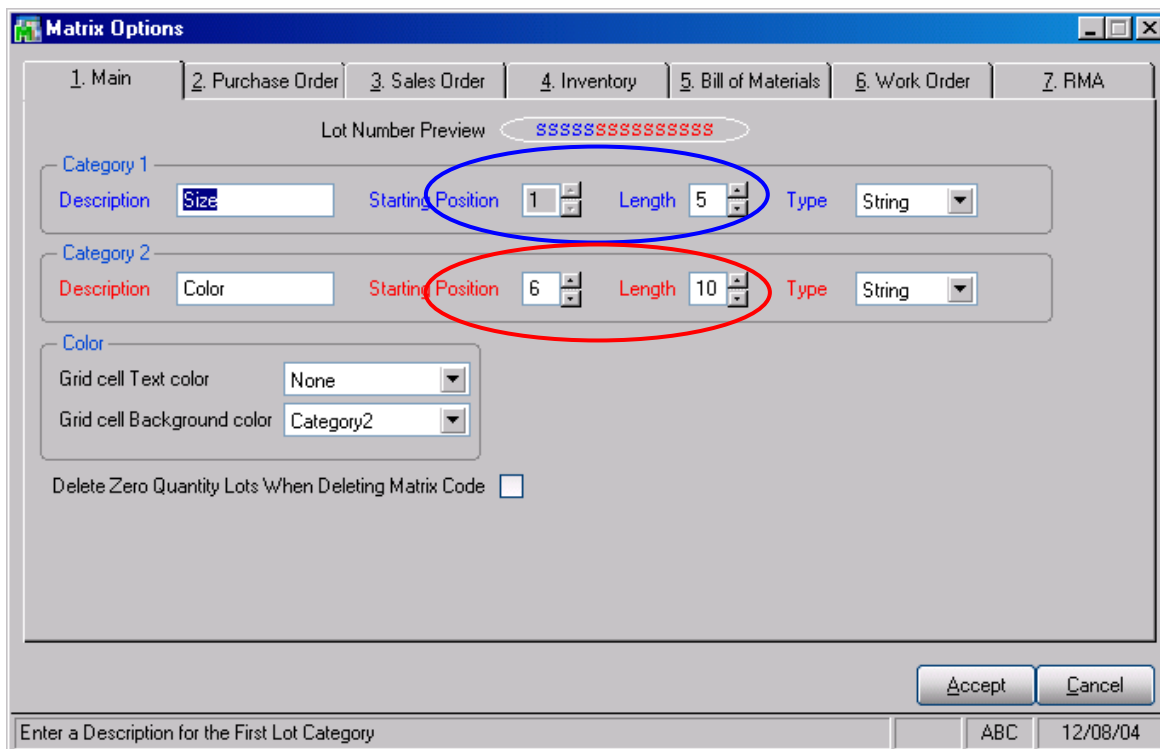
## Appendix

### Printing Matrix Codes separately

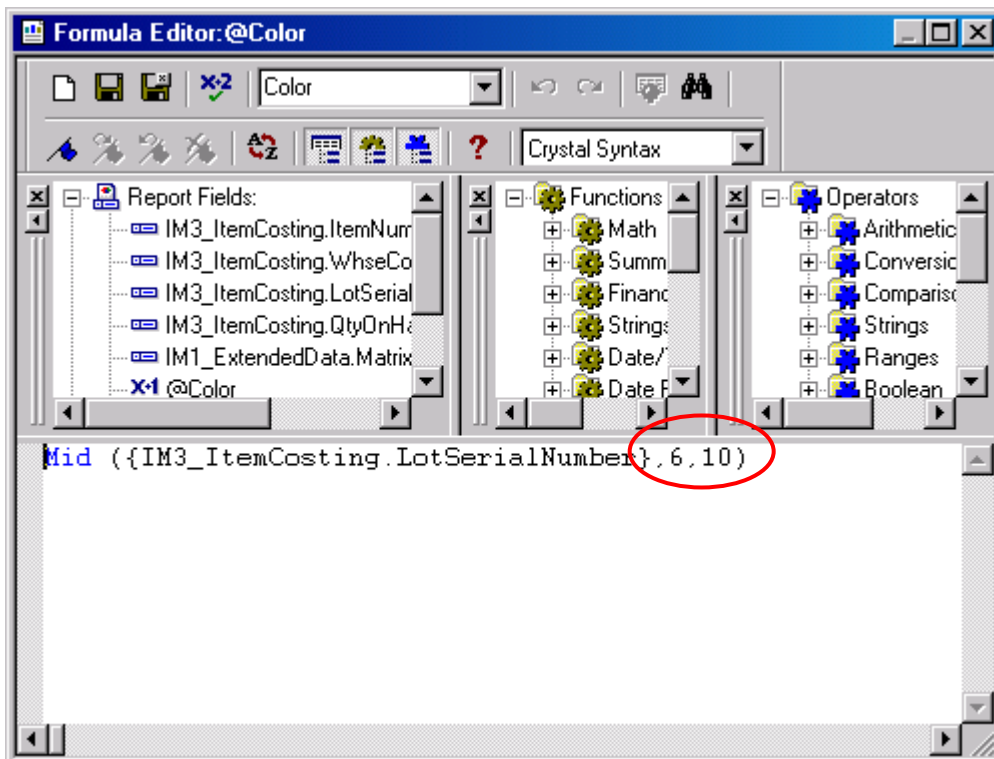
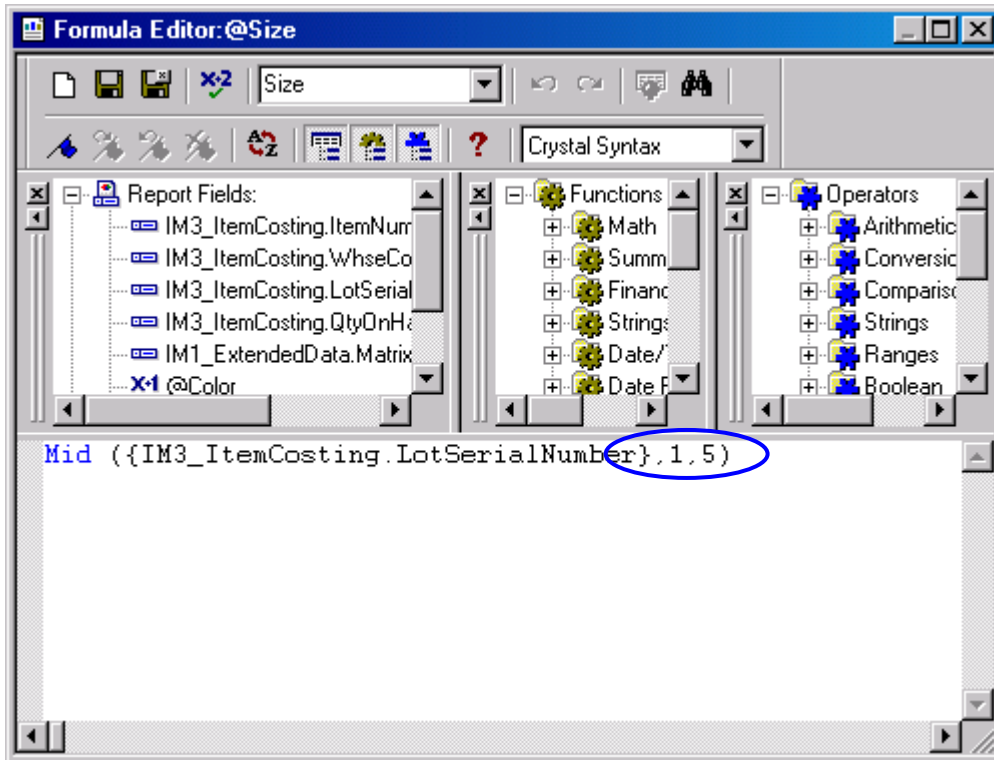
Printing parts of Matrix Items' Lot Numbers corresponding to Matrix Codes depends on the Matrix Codes positions and lengths in Lot Numbers, in the system.

After setting up Categories Positions and Lengths in the **Matrix Options**, you can start creating separate Matrix Codes reports. A sample report is included in the Matrix Processing enhancement package (MXPReportSample.rpt).

Here is how to include separate Matrix Code parts in a report, for a specific configuration below.

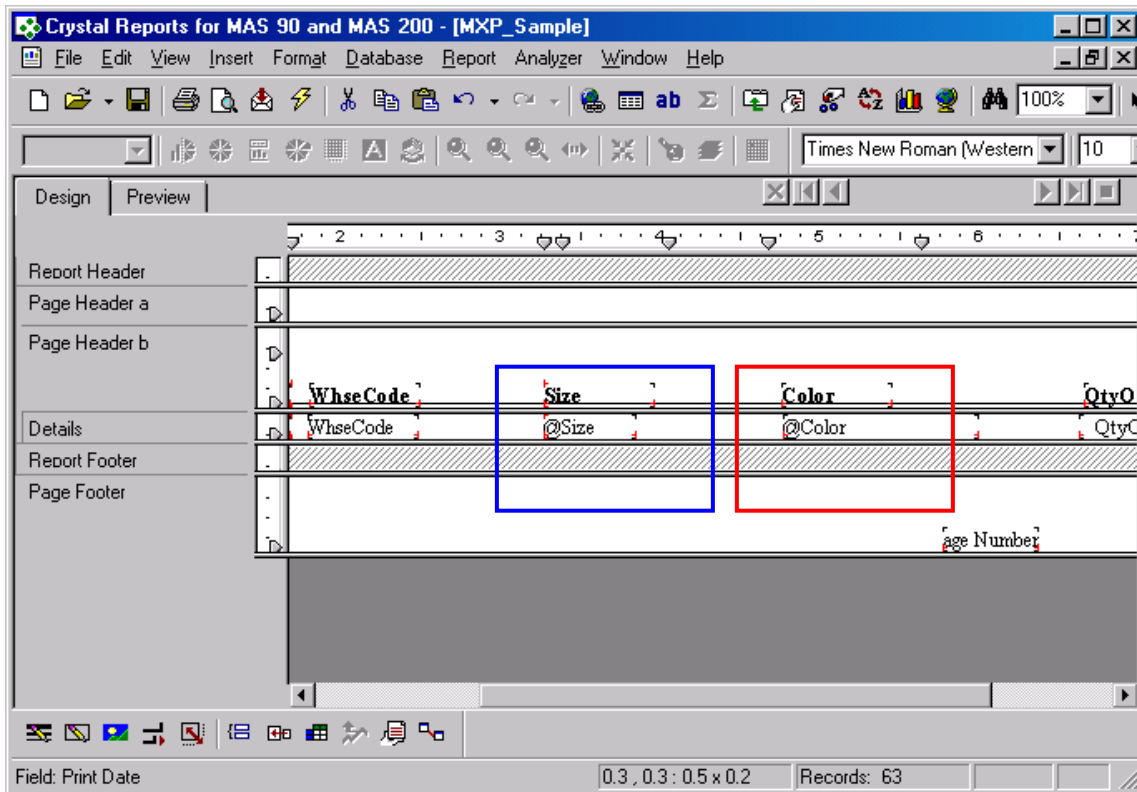


In the Crystal Reports, define new formulas for Color and Size, and specify the positions of each Category's Matrix Code inside Lot Number.





Place the newly defined formulas in the report.



Here is the output:

