Matrix Processing
For Sage 100 ERP 2013

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Pre-Installation Checklist

Before beginning the installation of this enhancement:

1. Verify you have the following standard modules activated in your MAS system:
   CI
   IM
   AR
   SO
   PO
2. Necessarily follow the steps described in the "**MXP500_CD\Doc\Installation Instructions for MXP.txt"** file

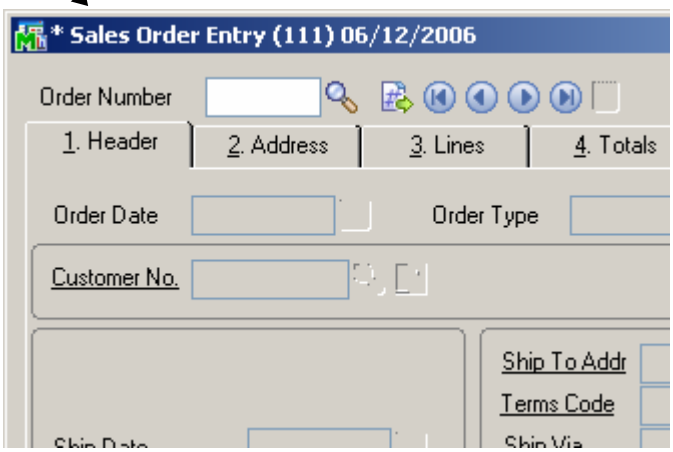
Installation Instructions and Cautions

PLEASE NOTE: SAGE 100 ERP *must already be installed on your system before installing any IIG enhancement. If not already done, perform your SAGE 100 ERP installation and setup now; then allow any updating to be accomplished automatically.*
Once SAGE 100 ERP 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 SAGE 100 ERP 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.

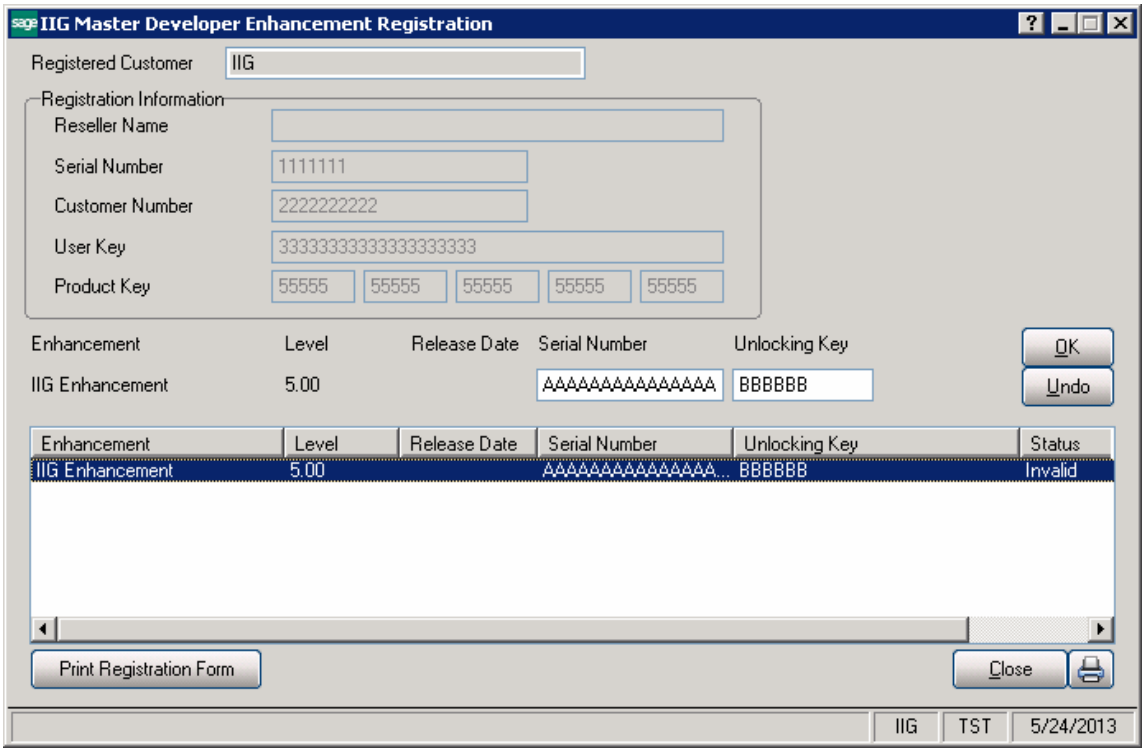
Follow all the instructions on this page before you run **Customizer Update**!

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 SAGE 100 ERP.

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**.



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.

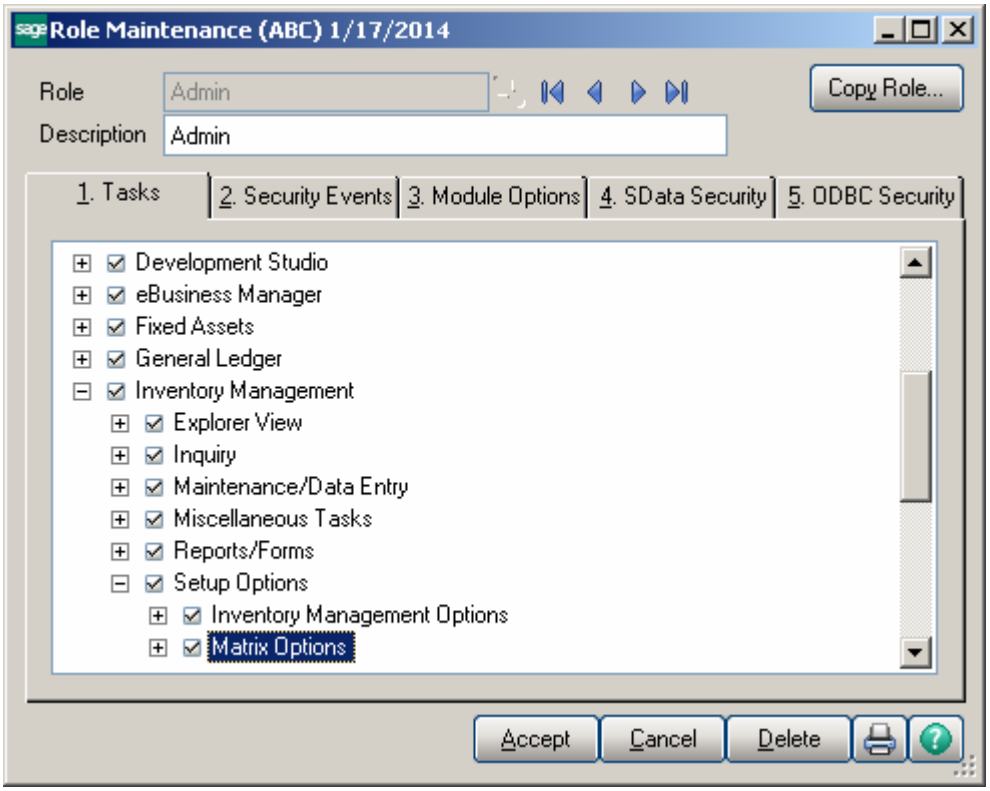
Use the **Print Registration Form** button to print IIG Registration Form.

ODBC Security

After installing an **IIG Enhancement**; it is **very important to verify** whether or not the **Enable ODBC Security within Role Maintenance** check box is selected in the **System Configuration** window of your system. If it is selected you must assign ODBC security permissions and allow access to custom data tables/fields for the Roles defined in your system.

Role Maintenance

After installing an **IIG Enhancement**, permissions must be configured for newly created Tasks and Security Events.



Introduction

The **Matrix Processing (MXP)** enhancement provides the key functionality needed to fulfill the size and color requirements of the Apparel Industry.
A completely integrated solution, the MXP for Sage MAS 90 and 200 has an e-Apparel component which makes your web presence easy to manage and deploy.
This enhancement enables Size and Color Matrix Processing that makes it possible to handle Lot Number Names as pairs of two separate Category Codes (usually Size and Color), which allows presenting set of the Lot Numbers of the same item in Matrix form. Items flagged as Matrix will use Matrix Distribution Grid instead of standard Lot/Serial Distribution screen.
Matrix Distribution Grid is available in:
Purchase Order Entry
Receipt Of Goods Entry
Sales Order Entry
Invoice Data Entry
Shipping Data Entry
Inventory Transaction Entry
B/M Production Entry
B/M Disassembly Entry
RMA Data Entry
RMA Receipts Entry

Matrix Items can use System Matrix Codes or have their own, item-specific Matrix Codes, to be used to construct Lot Numbers.

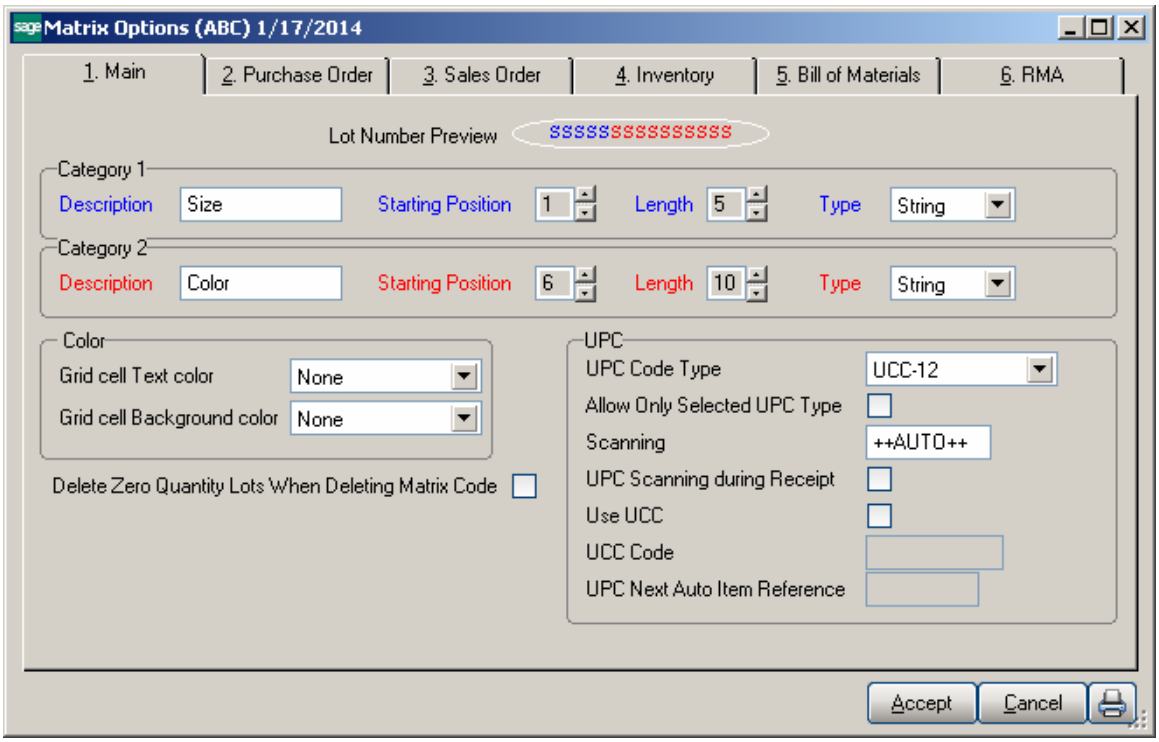
Prepacks by Matrix Codes can be defined for each Item to be used in sales orders.

Several reports such as: **Matrix Sales History Report, Matrix Stock Status Report**, **Matrix Committed Report,** etc. have been provided for Matrix items.
The **Matrix Grid** printing form has been added to the graphical printing Form Templates to allow printing the **Matrix Distribution** grid information on the **Sales Order**, **S/O Invoice, Picking Sheet**, **and Packing List** and **Purchase Order** printings.

Setup

Matrix Options

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



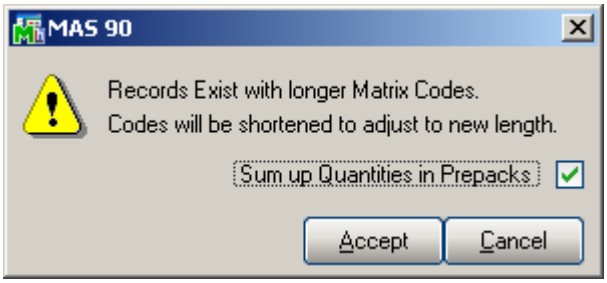
On the **Main** tab, select options for Matrix Code Categories and grid colors.

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 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.

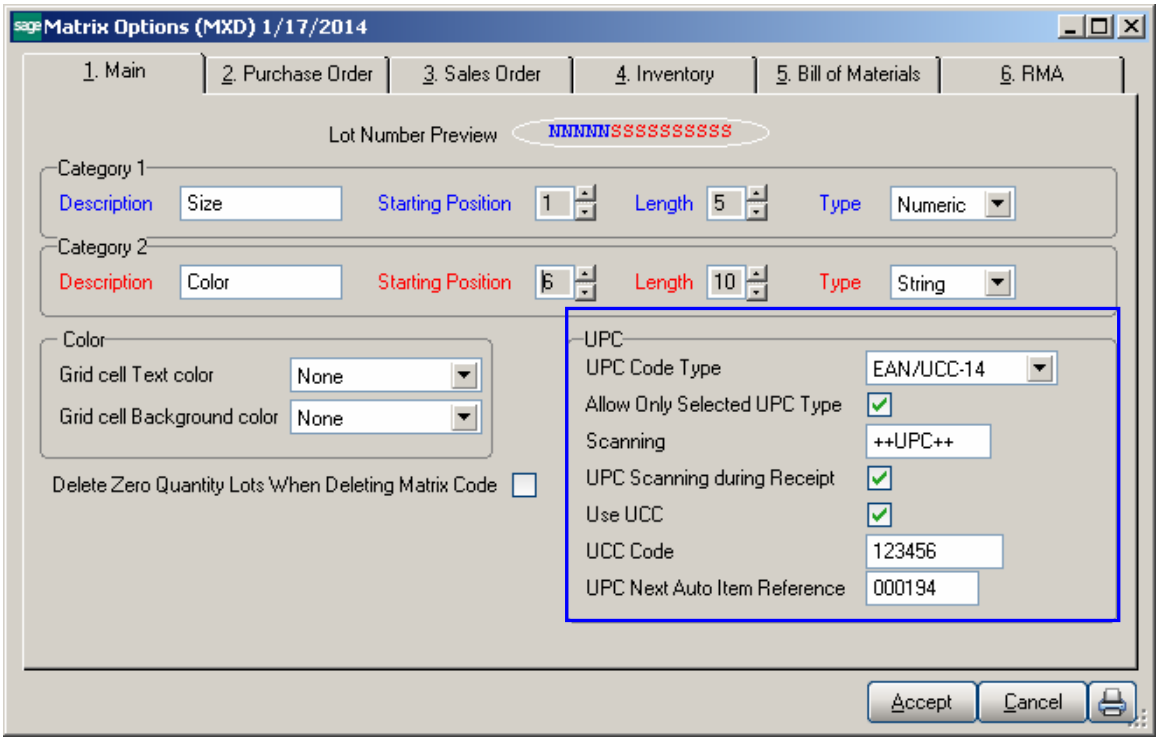
If the **Type** of a Category is changed from **String** to **Numeric**, the Matrix Codes, containing other symbols beside digits, will be displayed in red on the **Matrix Codes Maintenance** screen.

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.

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

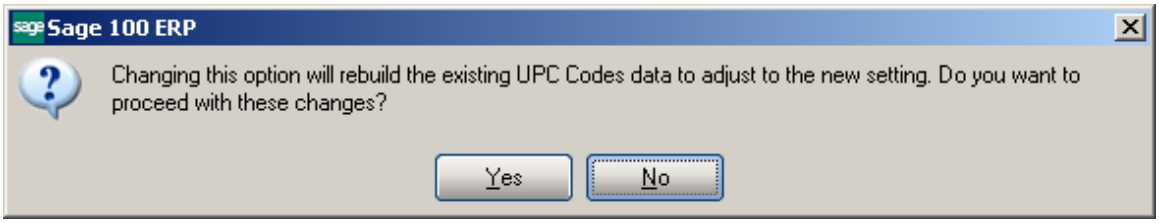


The **UPC Code Type** determines the default length to be used for the code – 12, 13 or 14 digits. The available options are UCC-12, EAN/UCC-13, EAN/UCC-14.

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.



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.

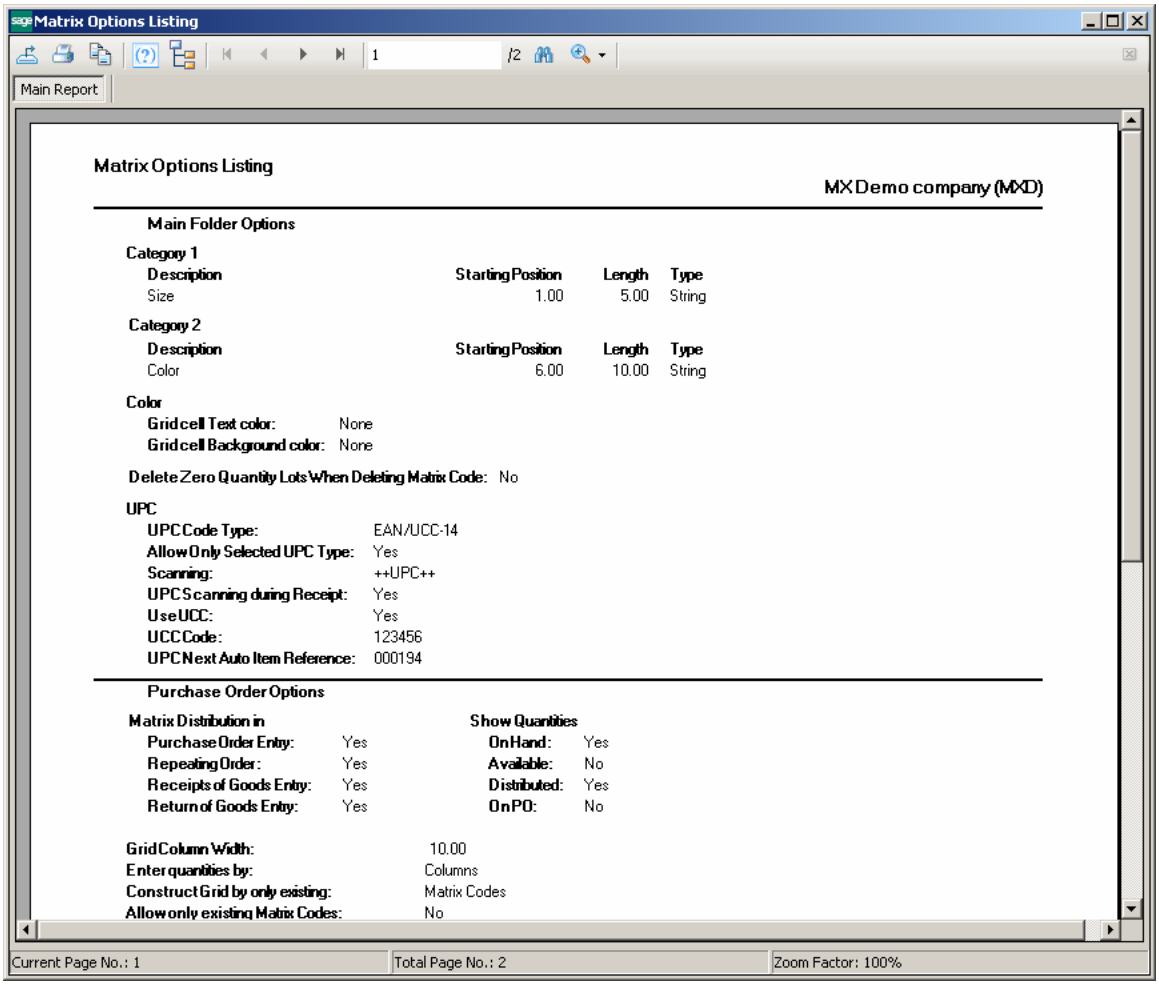
Check the **Use UCC** box, if your company manufactures rather than purchases and sells finished goods

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.

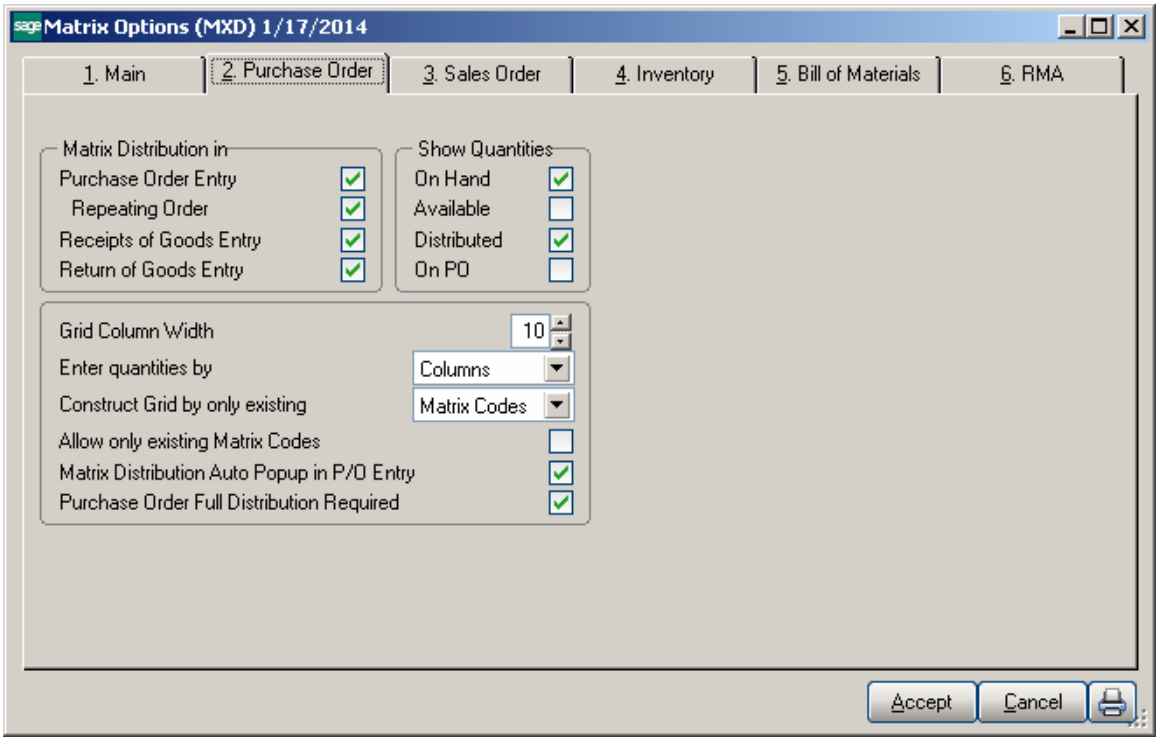
The **UPC Next Auto Item Reference** is for adding to the **UCC Code** for assigning UPC Codes automatically in the **UPC Code Maintenance** program. The **Item Reference** cannot be shorter than 2 digits.

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).

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.



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.

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.

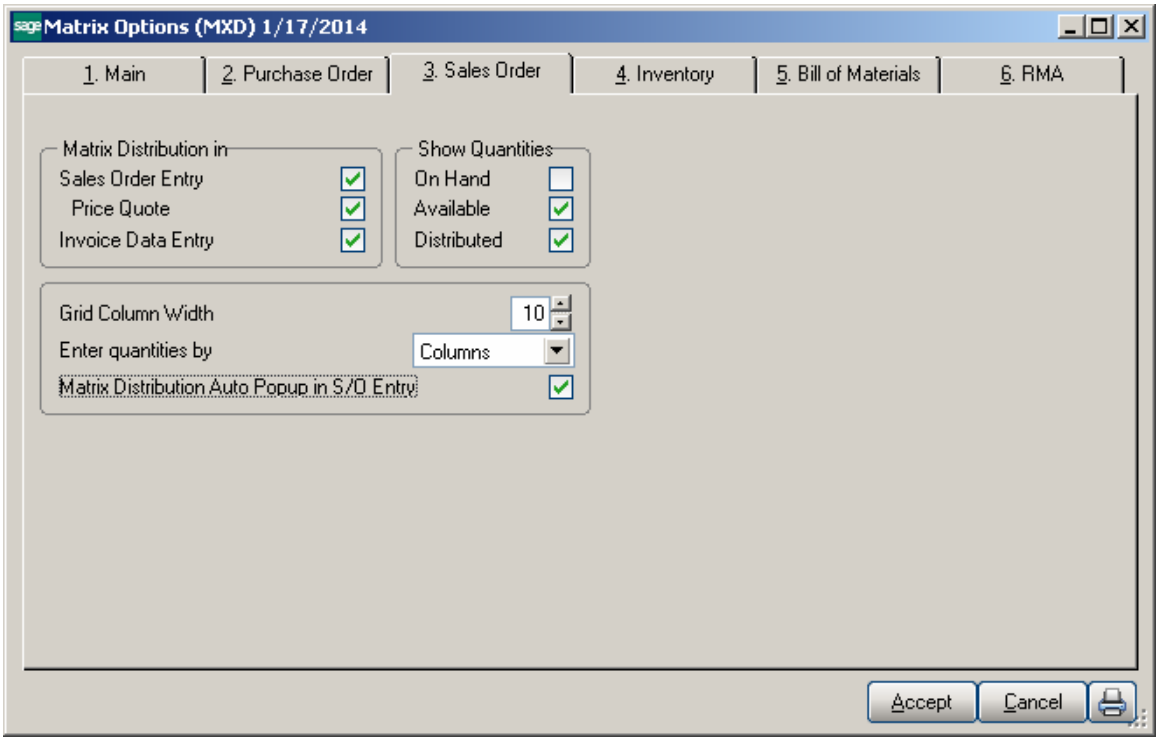
Check the **Purchase Order Full Distribution Required** box to require full distribution for all lines of the purchase order when accepting the order. If this check box is cleared, orders can be accepted without distributing all the lines completely.

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**. Select **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.



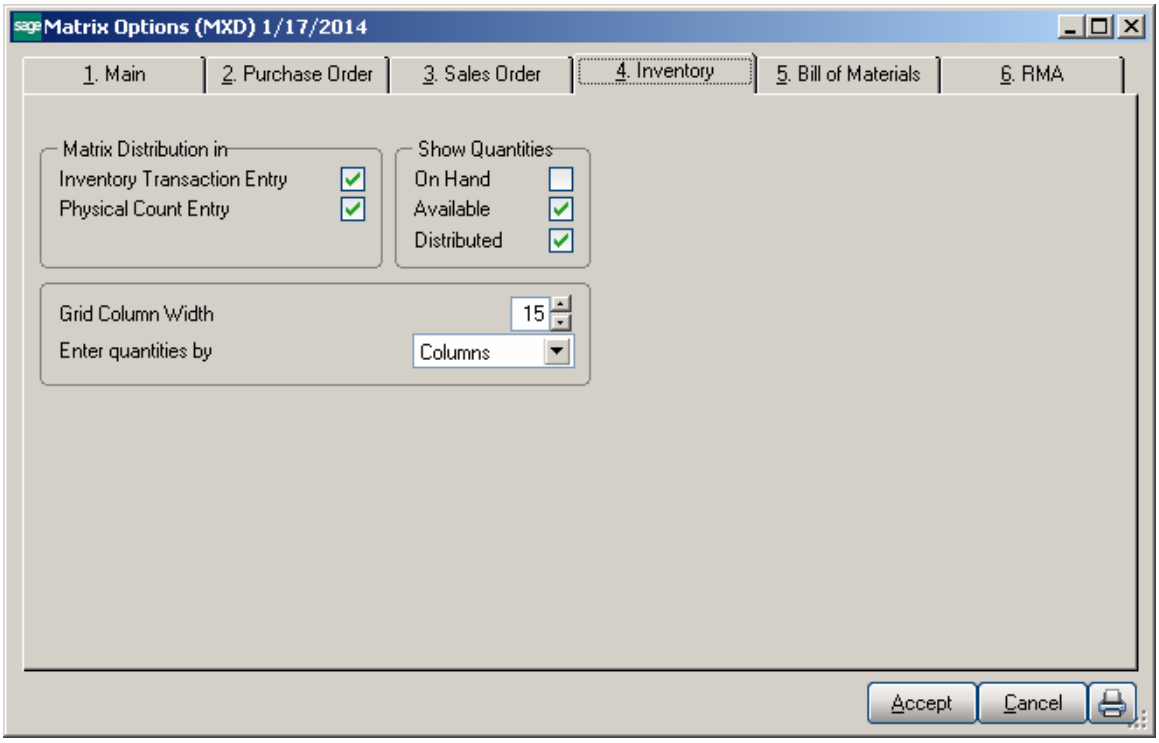
In the **Matrix Distribution in** section, check the boxes corresponding to the programs, where, for the Matrix Items, the Matrix Distribution screen will be displayed instead of the standard **Lot/Serial Distribution** screen.

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 is 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. 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 checked, it will also popup for non-zero quantities. In this case, the **Quantity Distributed** field on the **Matrix Distribution** screen is not populated and the distribution should be balanced against the quantity entered in the **Ordered** field of the line.
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.

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

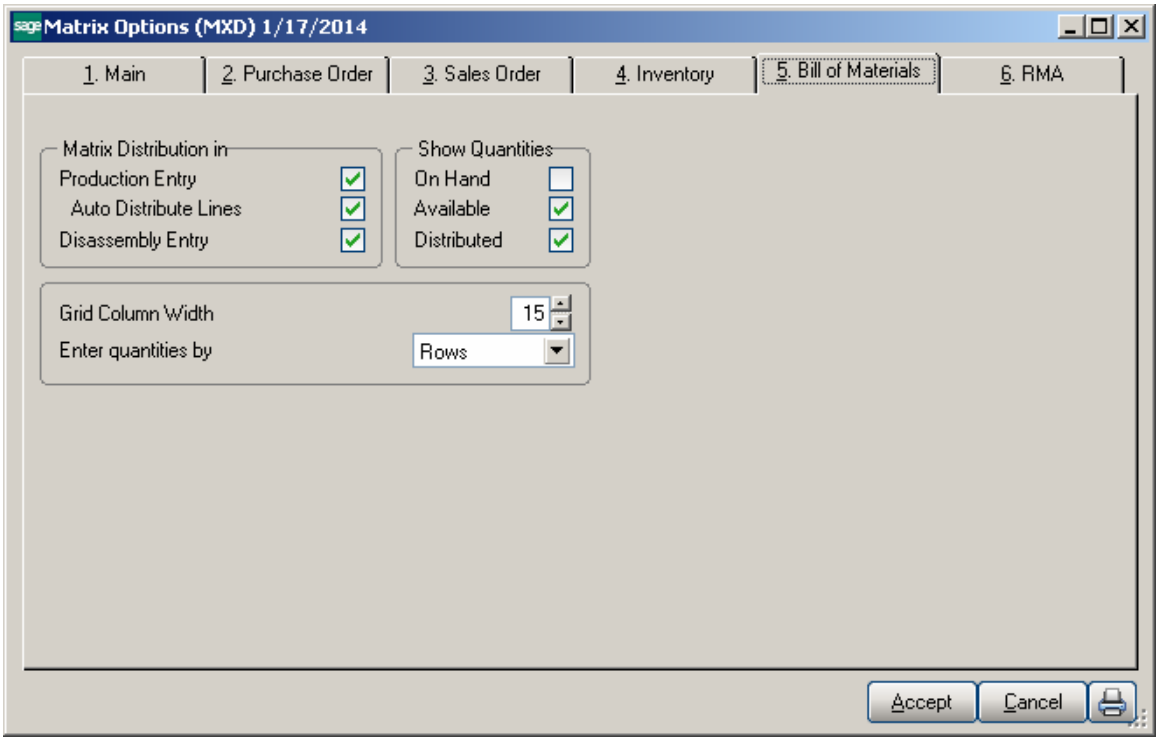


In the **Matrix Distribution in** section, check the boxes for the entries where the Matrix Distribution screen should popup for Matrix Items instead of the standard **Lot/Serial Distribution** screen.

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. These settings are applied 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.



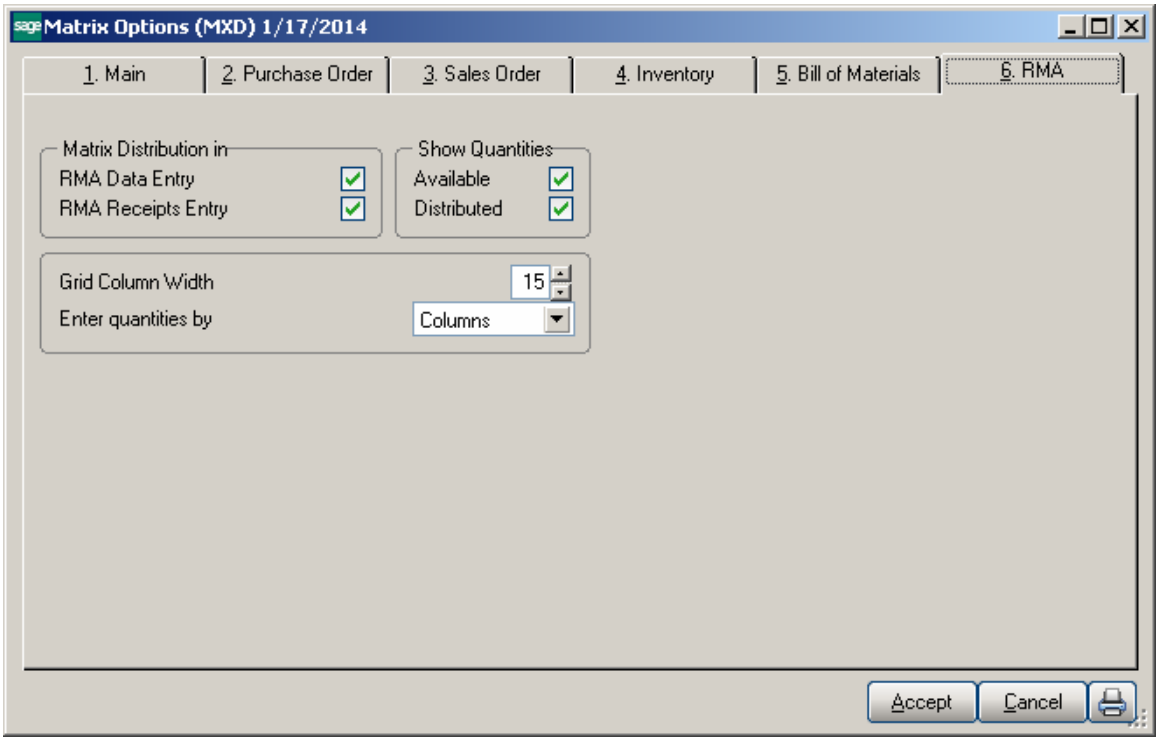
In the **Matrix Distribution in** section, check the boxes for the entries where the Matrix Distribution screen should popup for Matrix Items instead of the standard **Lot/Serial Distribution** screen.

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 **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.

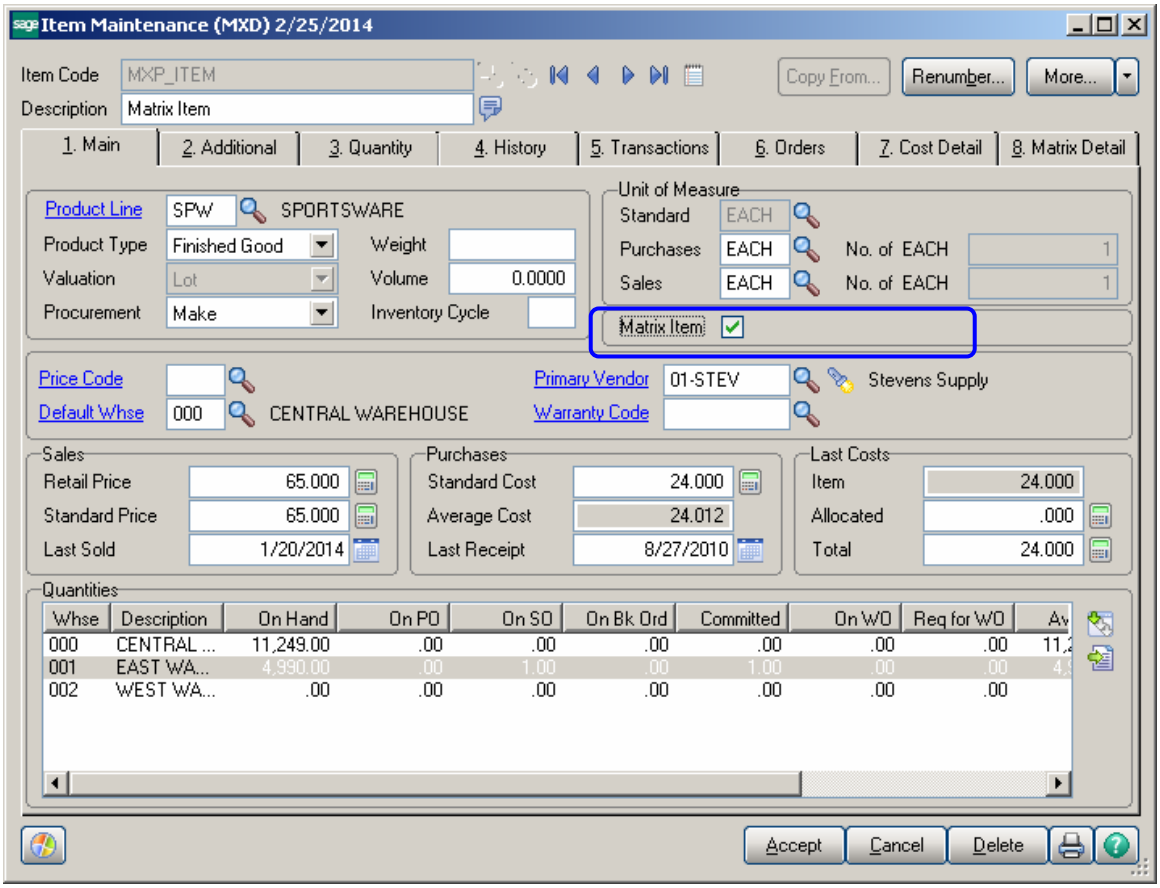


In the **Matrix Distribution in** section, check the boxes corresponding to the programs, where, for the Matrix Items, the Matrix Distribution screen should be displayed instead of the standard **Lot/Serial Distribution** screen.

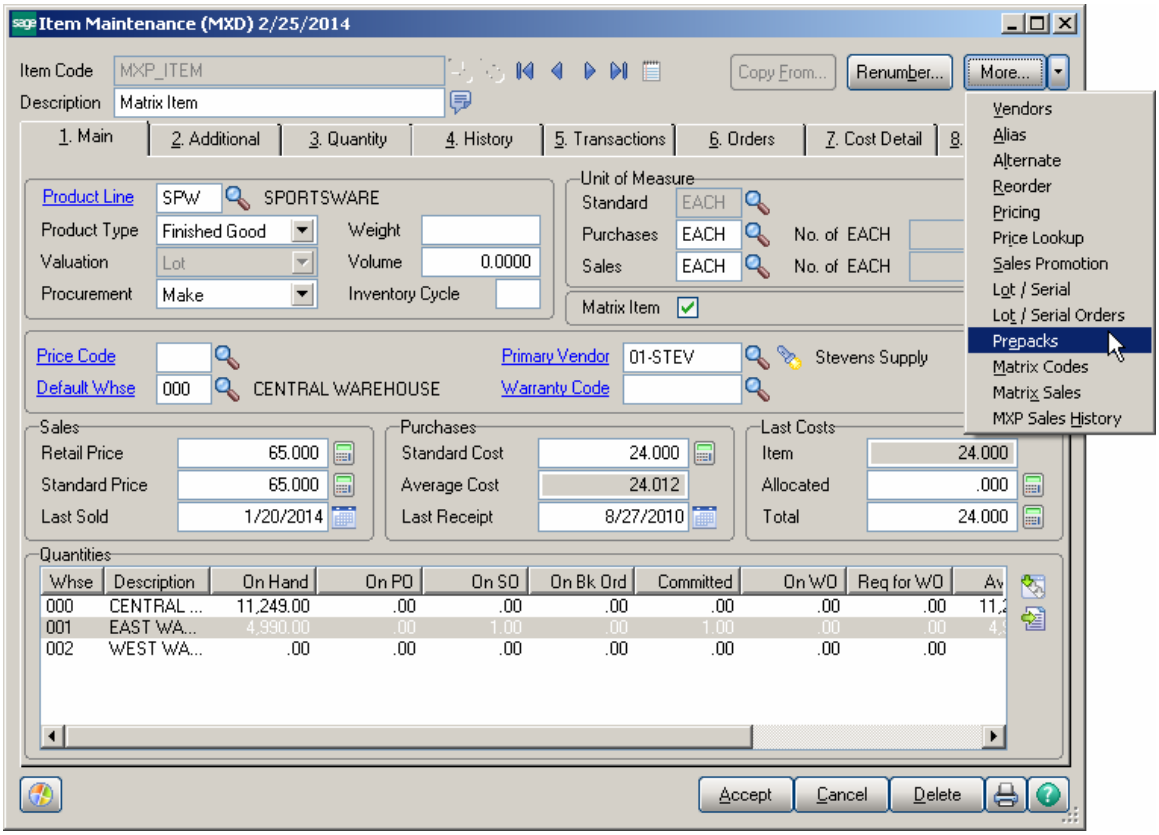
The **Show Quantities** section, **Grid column Width** field, and the **Enter quantities by** drop-down list are the same as on the **Purchase Order** tab. The settings apply to the programs of the **RMA** module.

Matrix Items

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



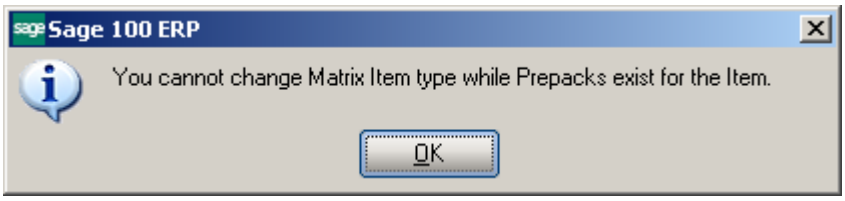
Select the **Matrix Item** checkbox to indicate matrix items.
The **Matrix Item** box can be checked only for **Lot** items. The **Valuation** of an item specified as **Matrix Item** cannot be changed to any type other than **Lot**.



The **Prepacks, Matrix Codes**, **Matrix Sales** and **MXP Sales History** buttons are enabled only for Matrix Items.

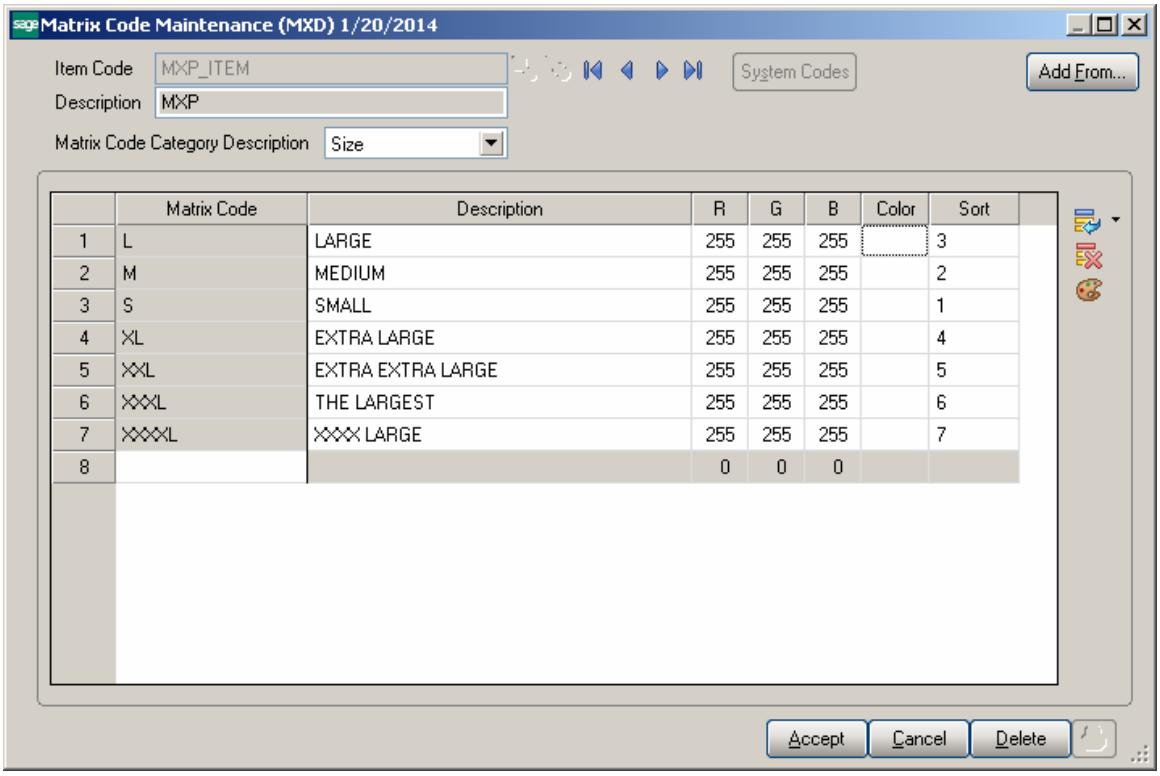
Prepacks are discussed later in this manual.
Matrix Item cannot be changed to non-Matrix if it has Prepacks.

If the **Matrix Item** check box is cleared for an item that has Matrix Codes, the program displays a confirmation message.



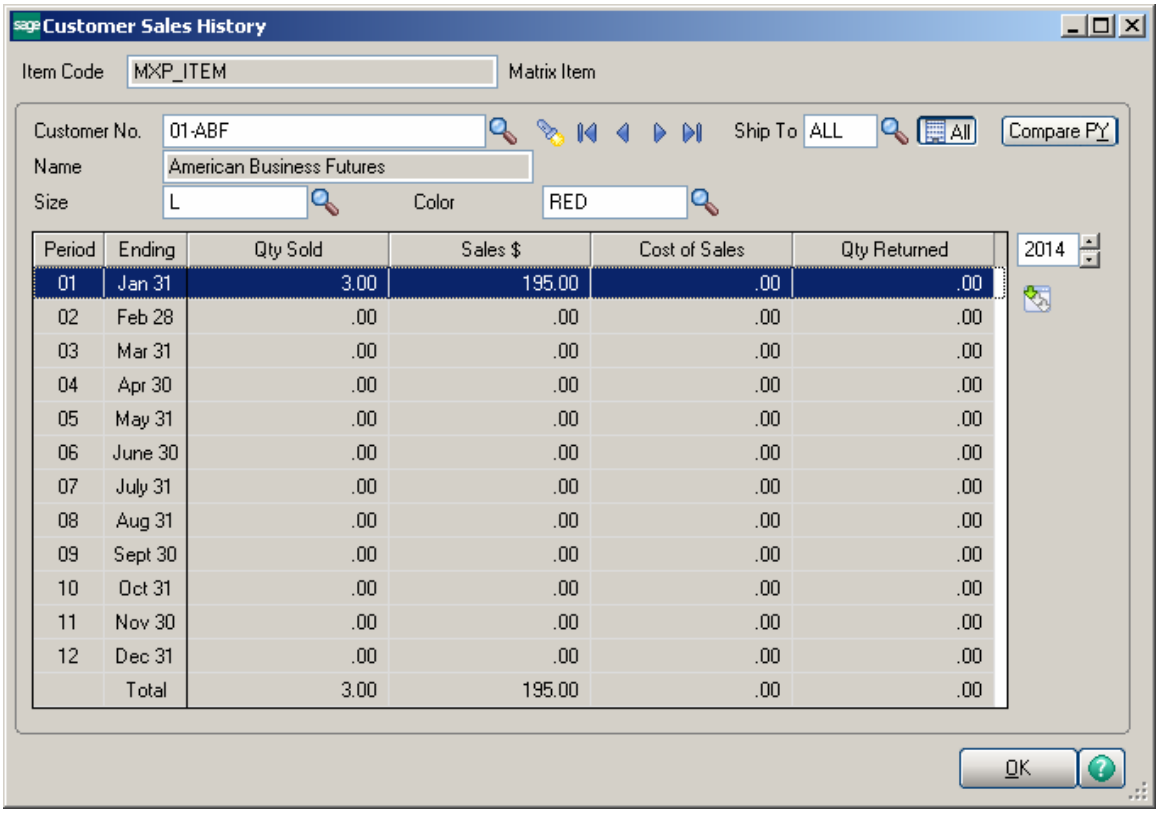
Matrix Codes of the item will be cleared, if the user chooses to remove the Matrix Item option from the item.

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

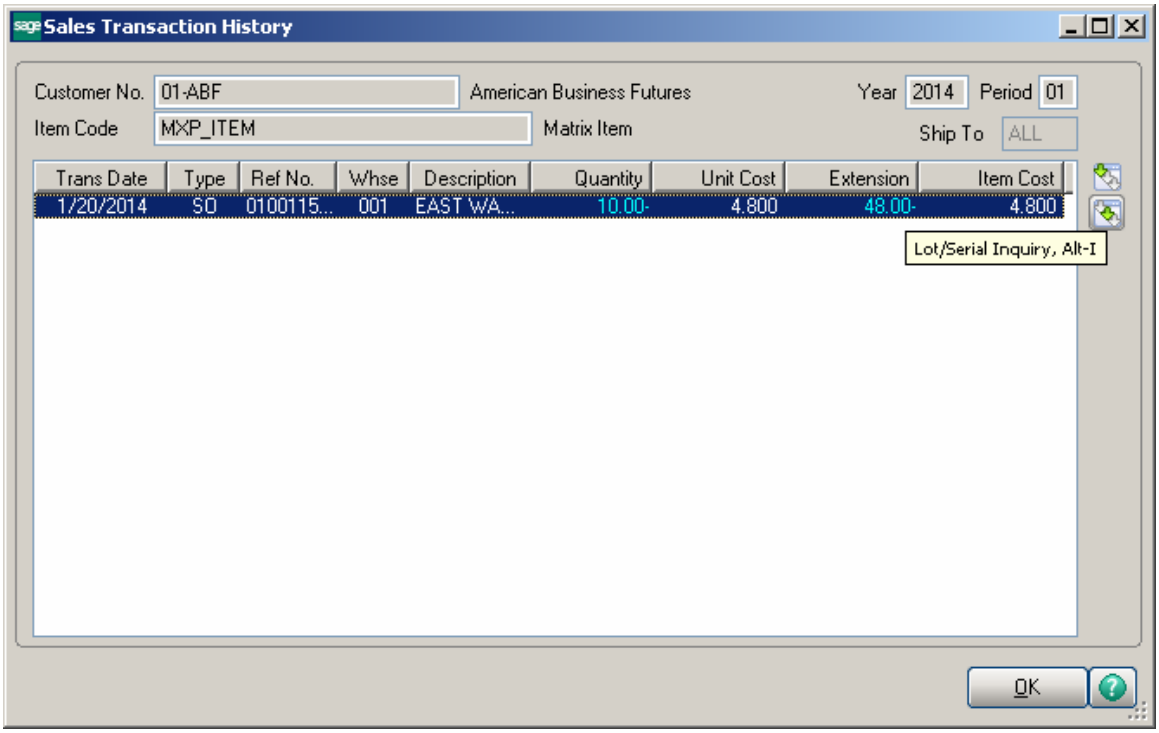


Here the user can add new matrix codes for current item if necessary or modify the existing ones (Refer to Matrix Codes for details).
The **Matrix Code** button is available on the **Item Inquiry** program, too. Clicking the **Matrix Code** button displays the **Matrix Code Inquiry** screen. **Matrix Codes** can be only viewed but not modified or added, from the **Item Inquiry** program.

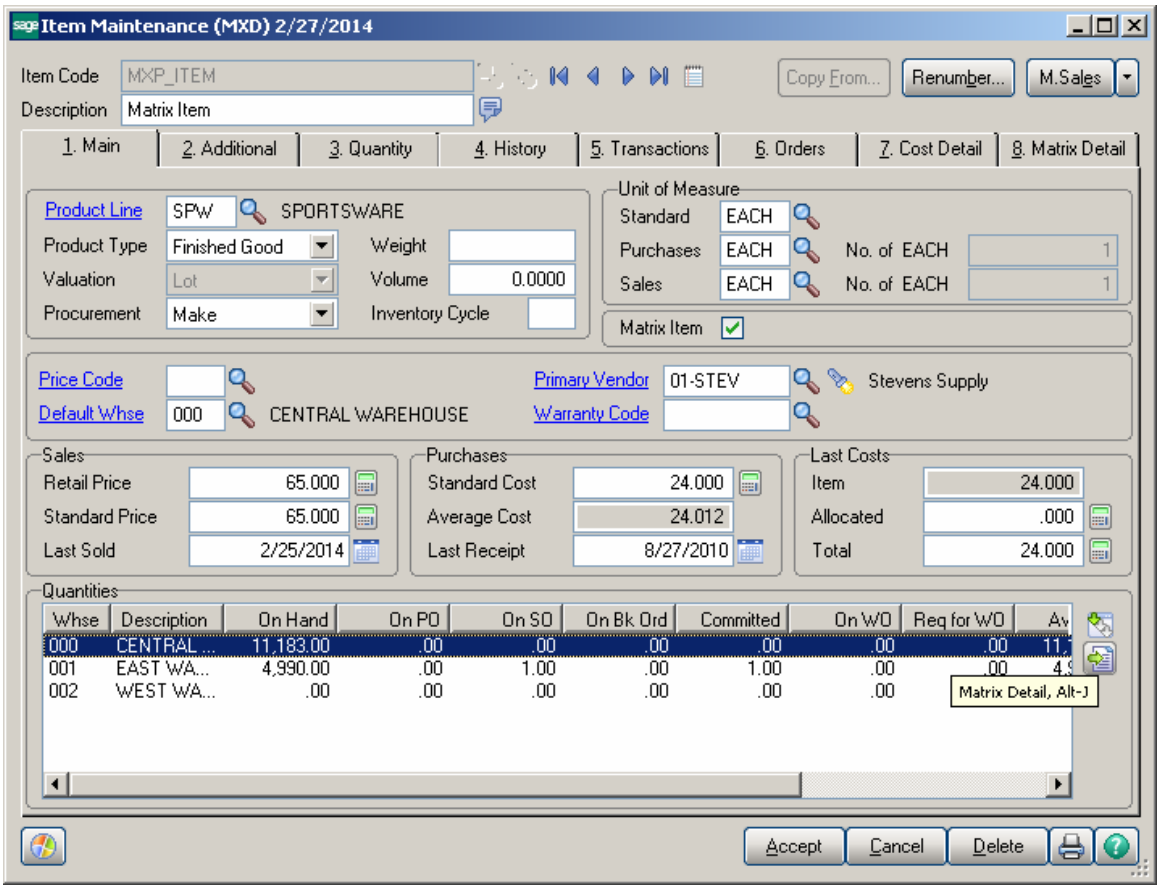
Use the **Matrix Sales** button on the **Item Maintenance** screen to view Matrix Item Sales history information by customer and by the Item Matrix codes.
Click **ALL** to view the combined total of all ship-to locations for the customer and the selected Matrix Code combination.



You can also drill down to the sales transaction history information

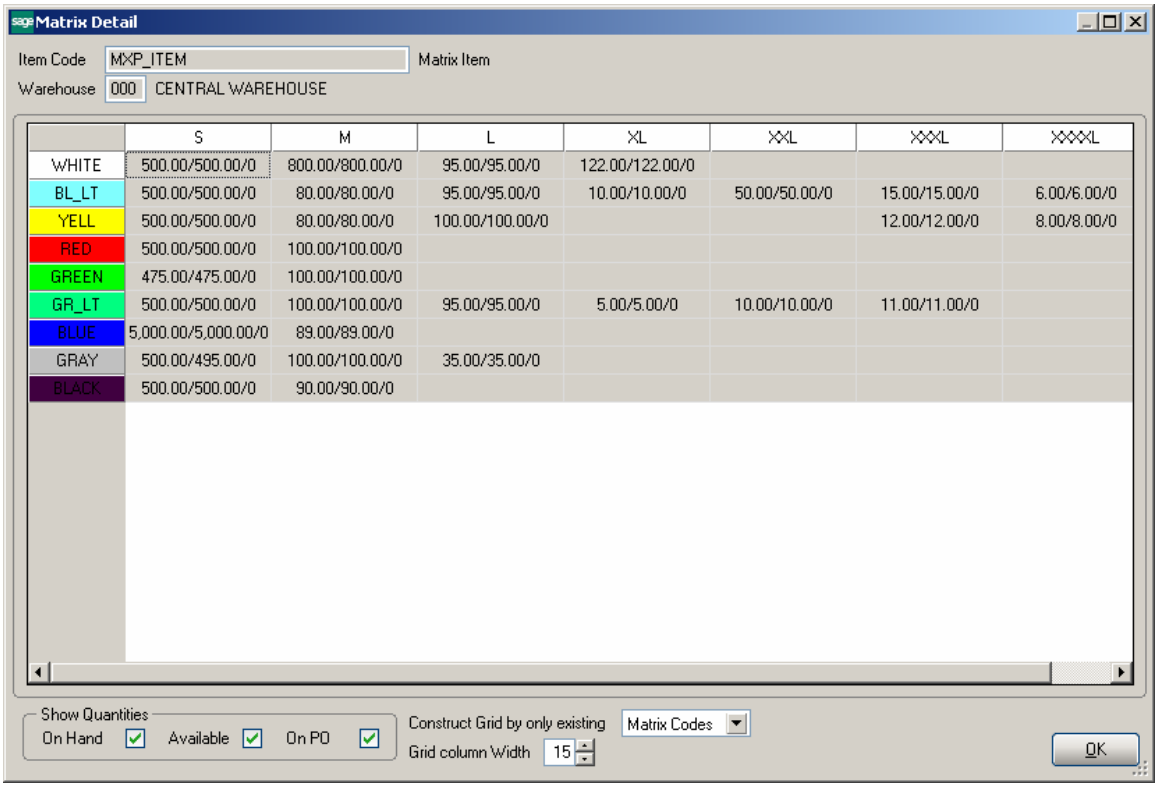


The **Matrix Detail** information is available from the Quantiy grid on the Main tab and from the **Quantity** tab of the **Item Maintenance**.
Select a line in the grid and click the **Matrix Detail** button on the right hand.



The value of **On PO** field is calculated run-time.

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



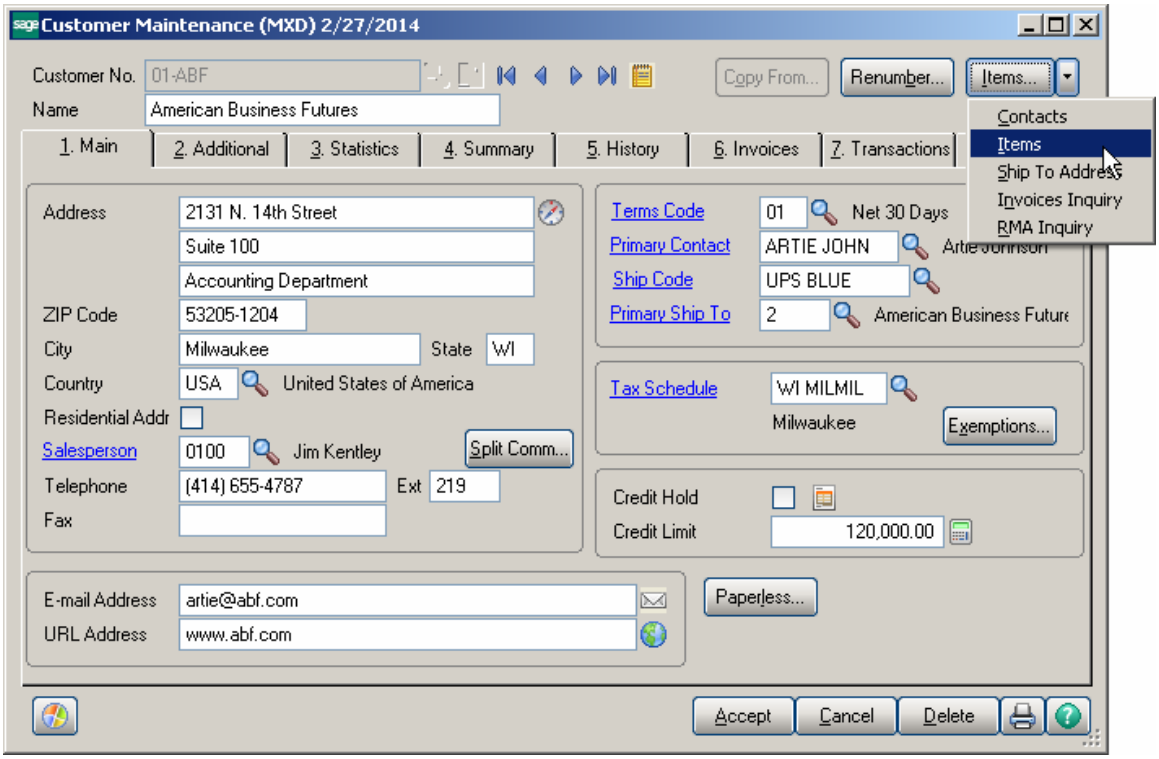
The same screen is available also from the **Inventory Inquiry** program.

If the **Include in Quantity Available** option is set to “Purchase Order” or “PO s and WO s” in the Inventory Management Options the quantity On PO for Matrix Lot will be included in the quantity available calculation and reflected in the quantity available displayed on the Matrix Grid wherever it’s accessible.
“On PO” quantity will be included in the availability calculation after the Purchase Order is accepted.

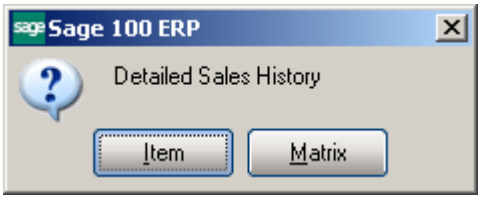
*Note: For Matrix lots the **Include in Quantity Available** option to include **On WO** quantity is not supported.*

Customer Matrix Sales History

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



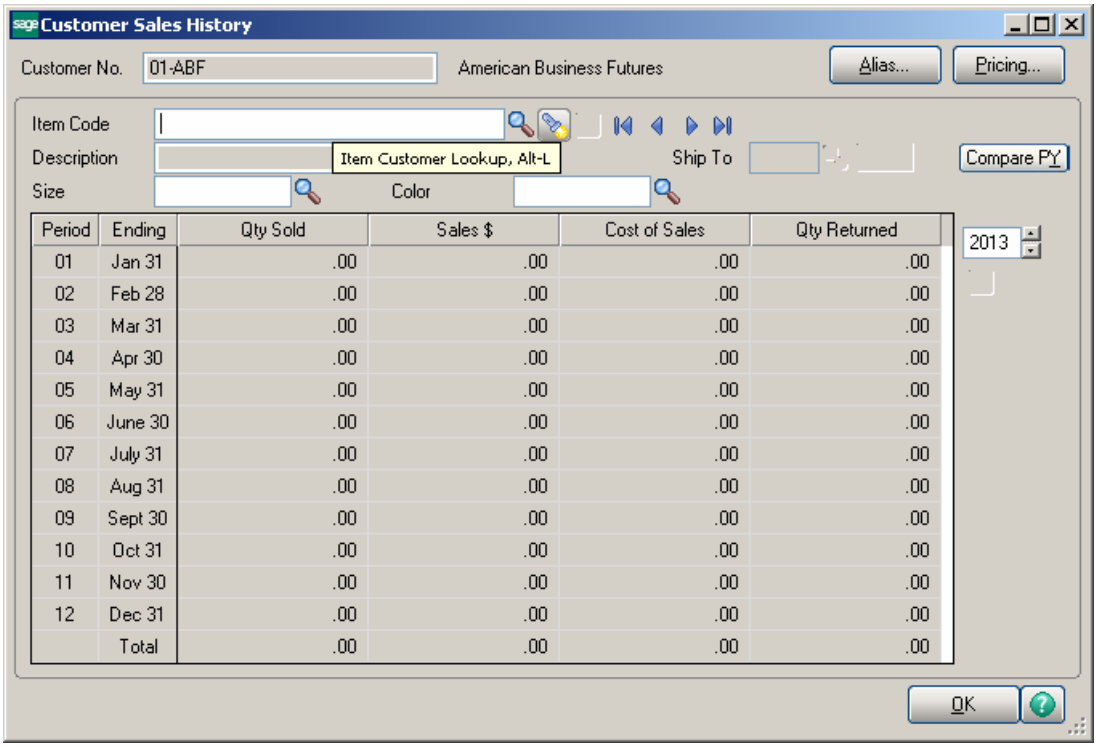
Click the **Items** menu.

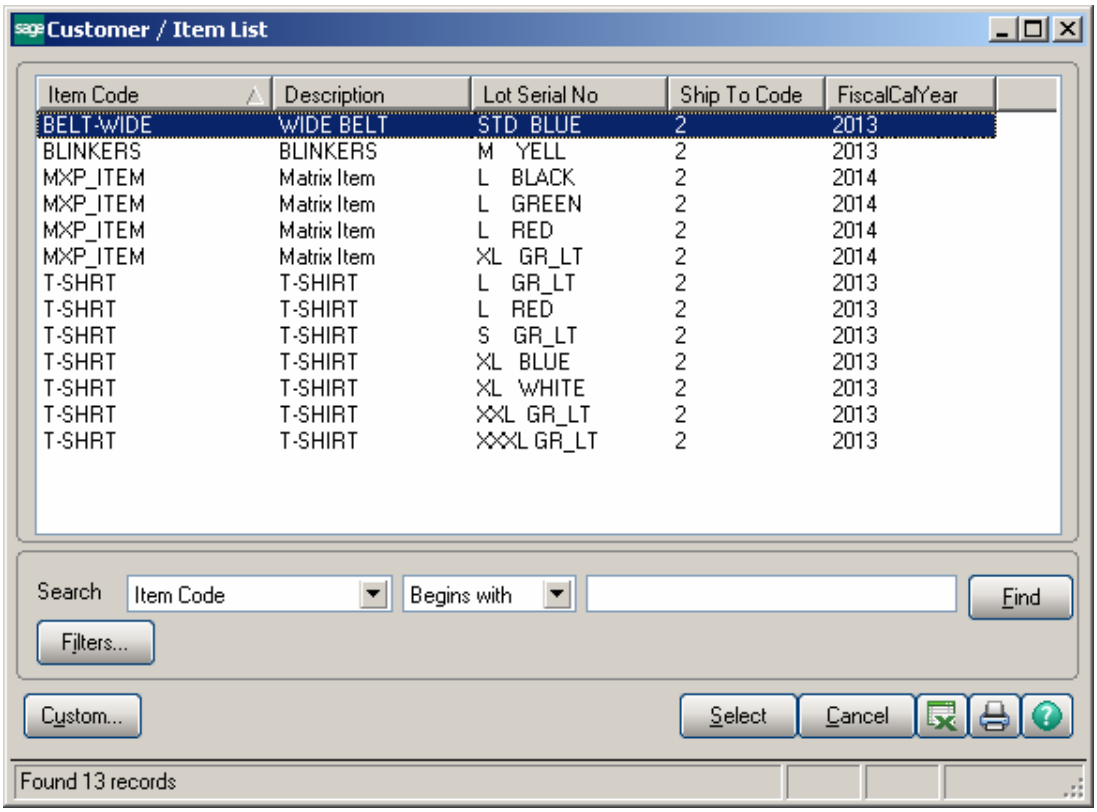


In the opened dialog box click the Matrix button to open the **Detailed Matrix Sales History** screen.

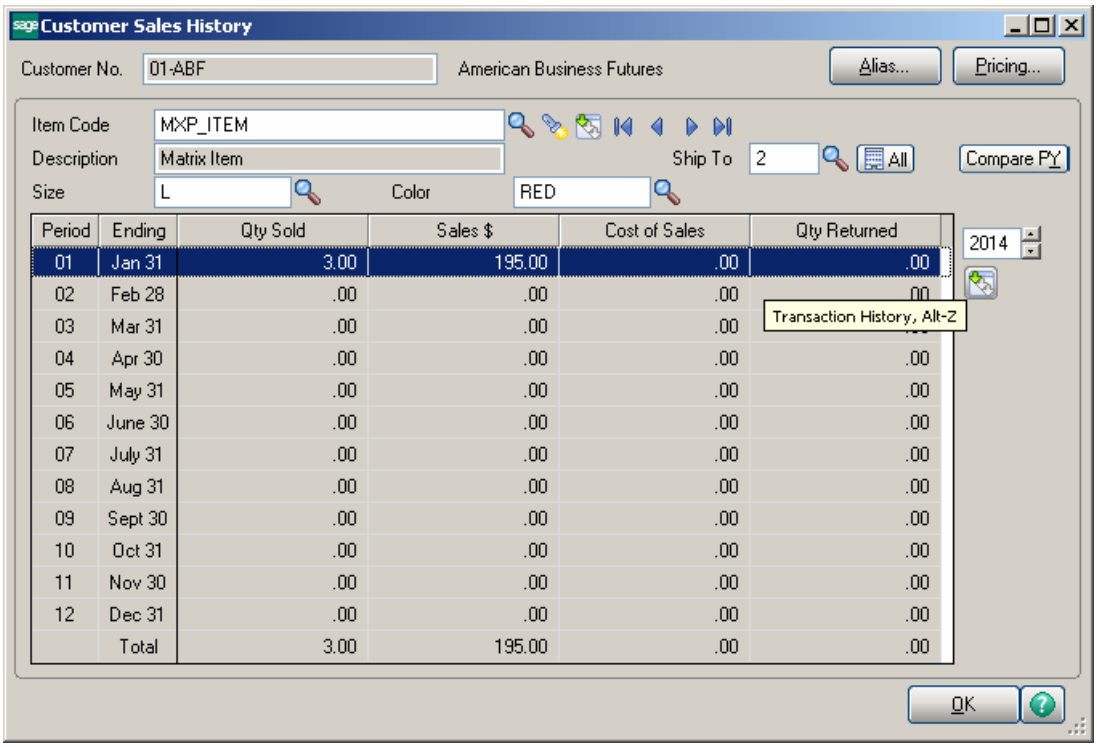
Enter the **Item No.** or select it using the **Lookup** button. The Lookup list displays only Matrix items.

Click the **Item Customer Lookup** button to view the list of all the Lot Numbers for all matrix items sold to the selected customer.

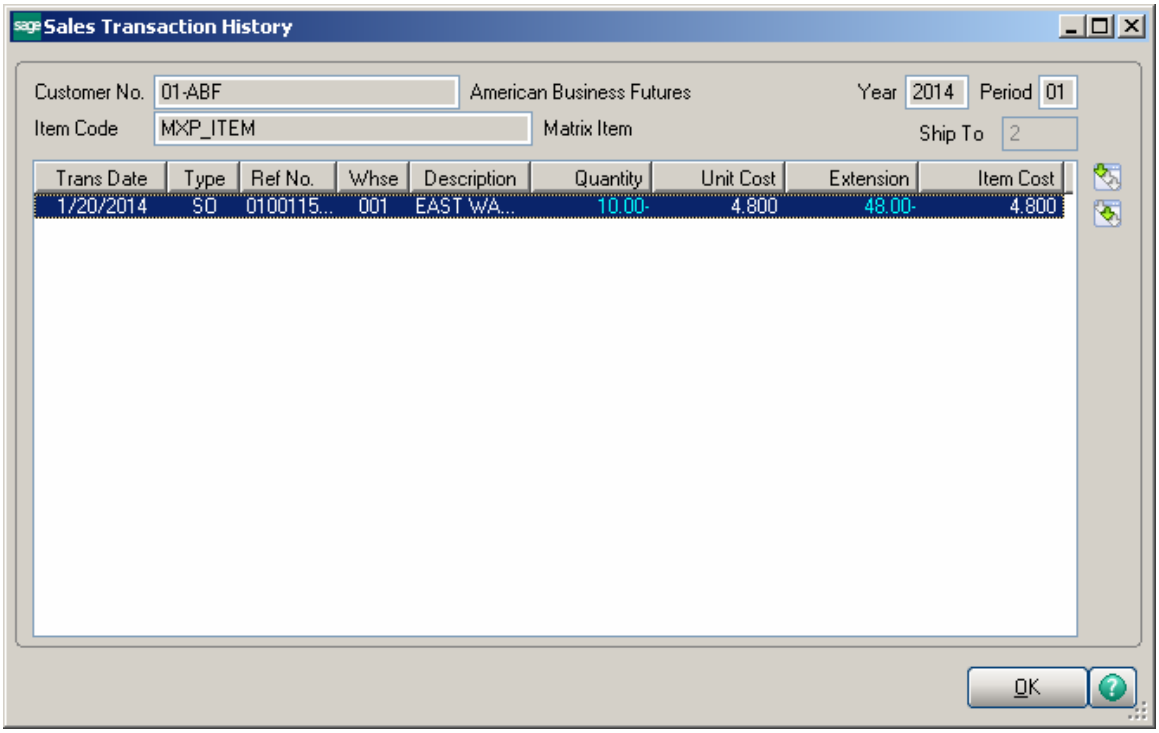




The **Item Inquiry** button displays the **Item Inquiry** screen for the selected item.



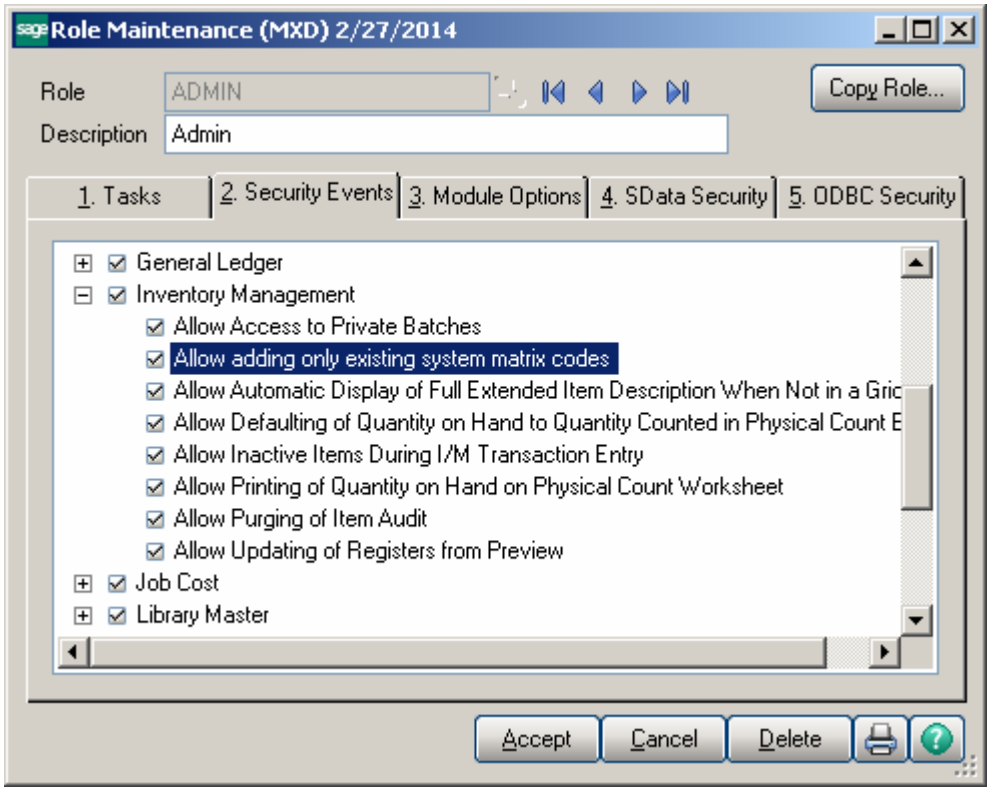
Select a period and click the **Transaction History** button to view the **Sales Transaction History** screen.



Matrix Codes Setup

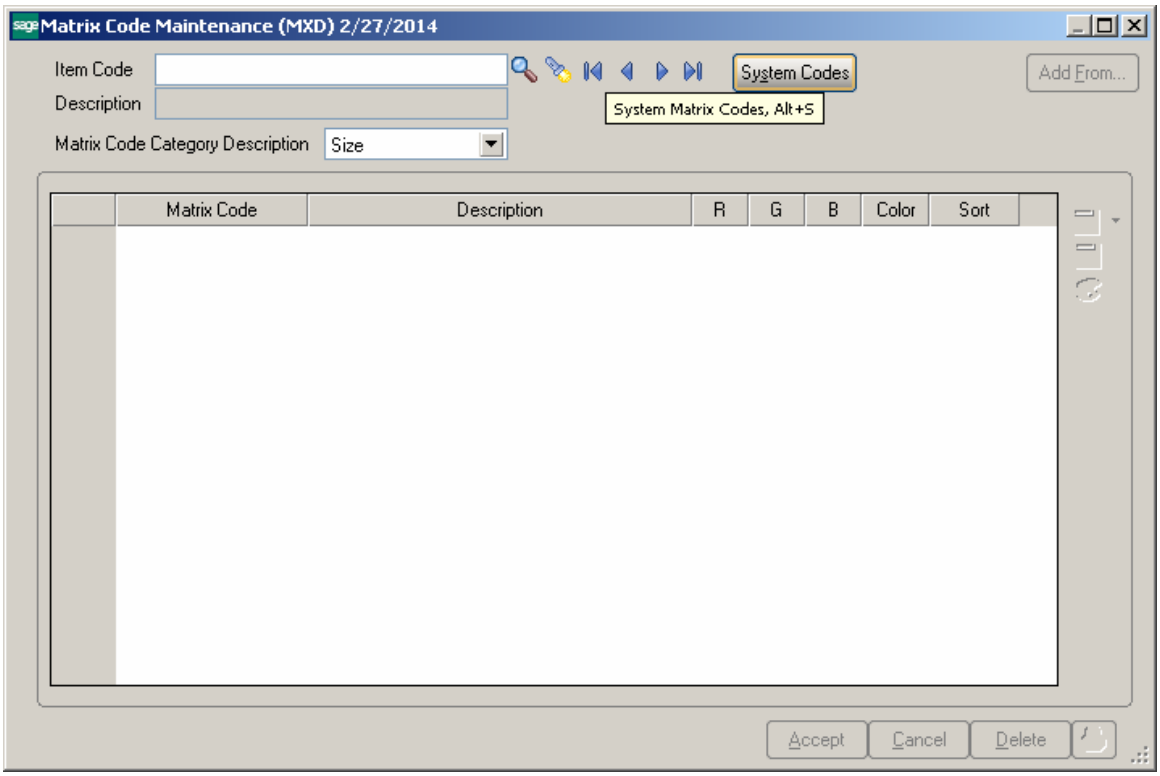
Role Maintenance

The **Allow adding only existing system matrix codes** security event allows only authorized users to add matrix codes for an Item other than the ones already setup in the system.

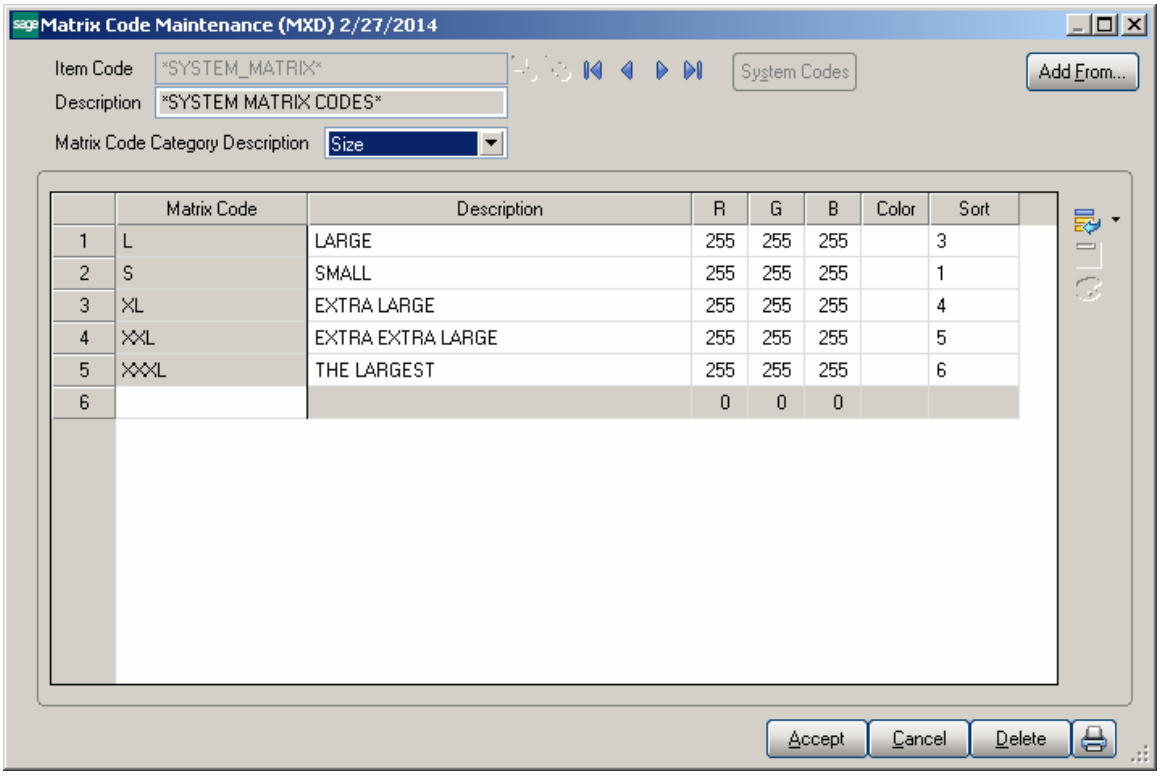


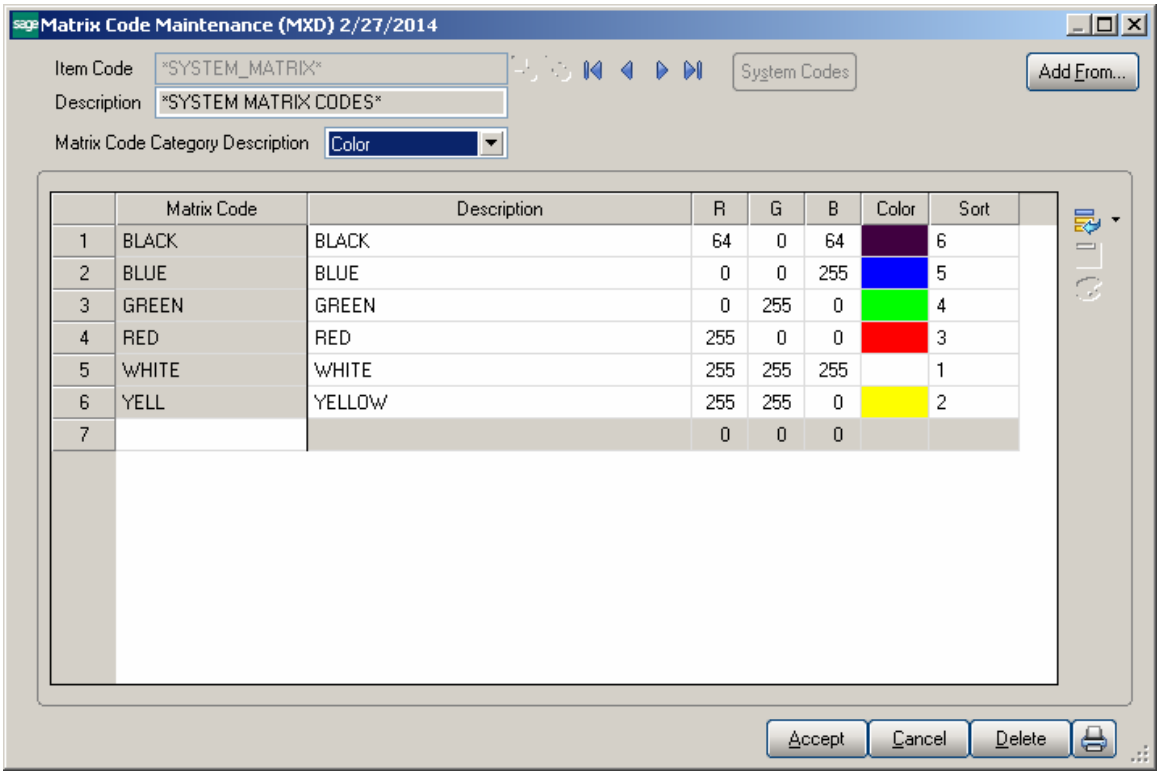
Matrix Code Maintenance

Select the **Matrix Code Maintenance** program under the Inventory Management Setup menu. The **System Codes** button allows for adding system level matrix codes, which may be added to any Item as needed.



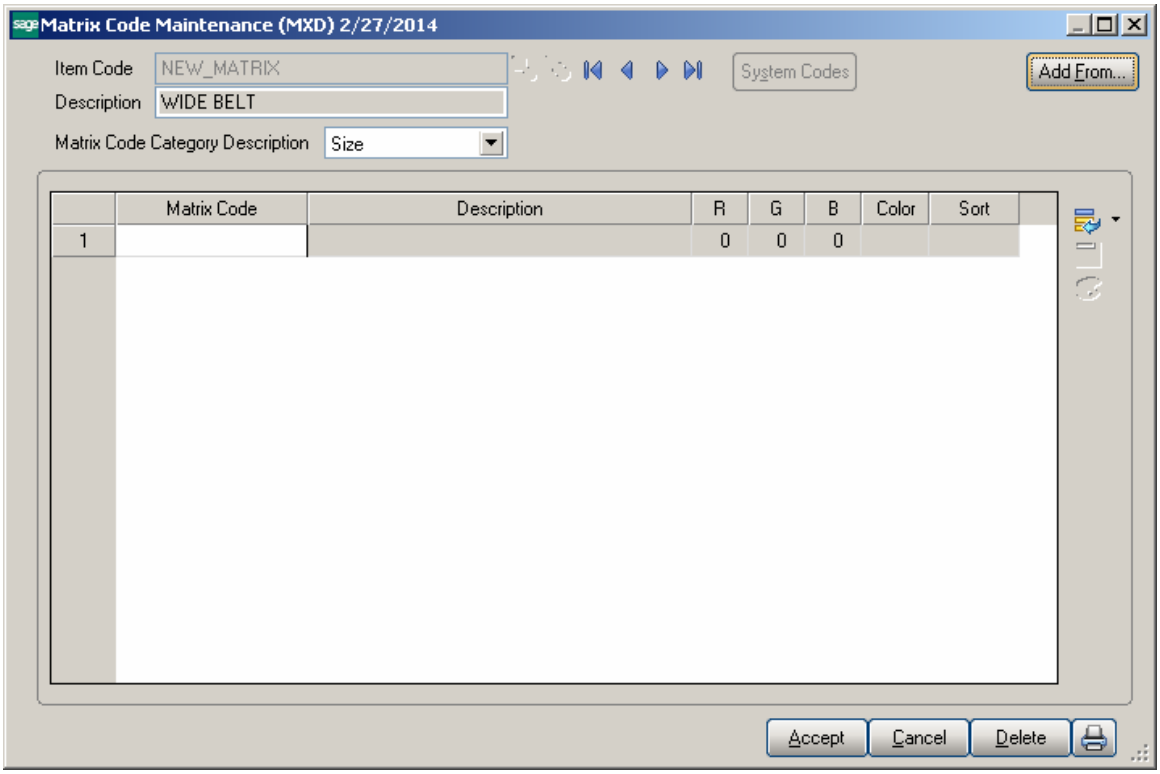
Upon pressing the **System Codes** button the **Matrix Code Maintenance** is opened with the Item Code defaulted to ***SYSTEM_MATRIX*** with respective Description.
Select the **Matrix Code Category Description** (Size/Color) and enter the Matrix Codes corresponding to that category.


Matrix Code Maintenance (MXD) 2/27/2014
Item Code *SYSTEM_MATRIX*
Description *SYSTEM MATRIX CODES*
Matrix Code Category Description Size
System Codes
Add From...
Matrix Code | Description | R | G | B | Color | Sort
1 L LARGE 255 255 255 3
2 S SMALL 255 255 255 1
3 XL EXTRA LARGE 255 255 255 4
4 XXL EXTRA EXTRA LARGE 255 255 255 5
5 XXXL THE LARGEST 255 255 255 6
6 0 0 0
Accept
Cancel
Delete

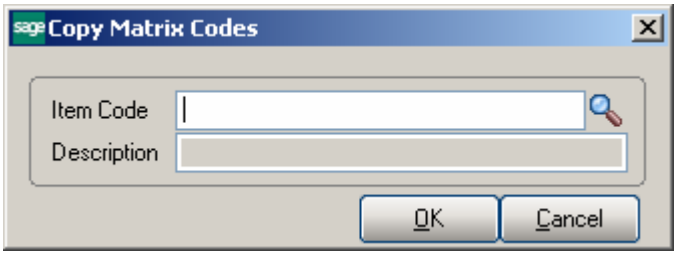

Matrix Code Maintenance (MXD) 2/27/2014
Item Code *SYSTEM_MATRIX*
Description *SYSTEM MATRIX CODES*
Matrix Code Category Description Color
System Codes
Add From...
Matrix Code | Description | R | G | B | Color | Sort
1 BLACK BLACK 64 0 64 6
2 BLUE BLUE 0 0 255 5
3 GREEN GREEN 0 255 0 4
4 RED RED 255 0 0 3
5 WHITE WHITE 255 255 255 1
6 YELL YELLOW 255 255 0 2
7 0 0 0
Accept
Cancel
Delete

You may enter also Description; specify the color either by entering respective R, G, and B codes or by selecting from color palette. The **Sort** field allows for setting the order of Matrix Codes displayed in the Matrix Distribution Grids.

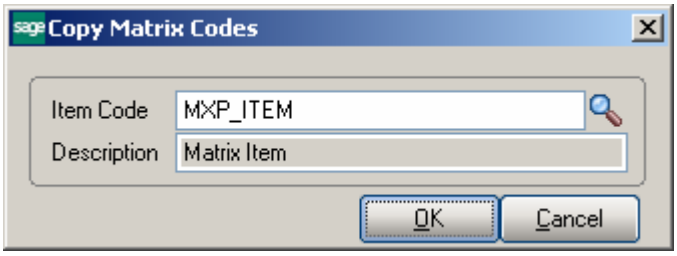
The **Add From** button allows for copying Matrix Codes from any item to the selected item's Matrix Codes.



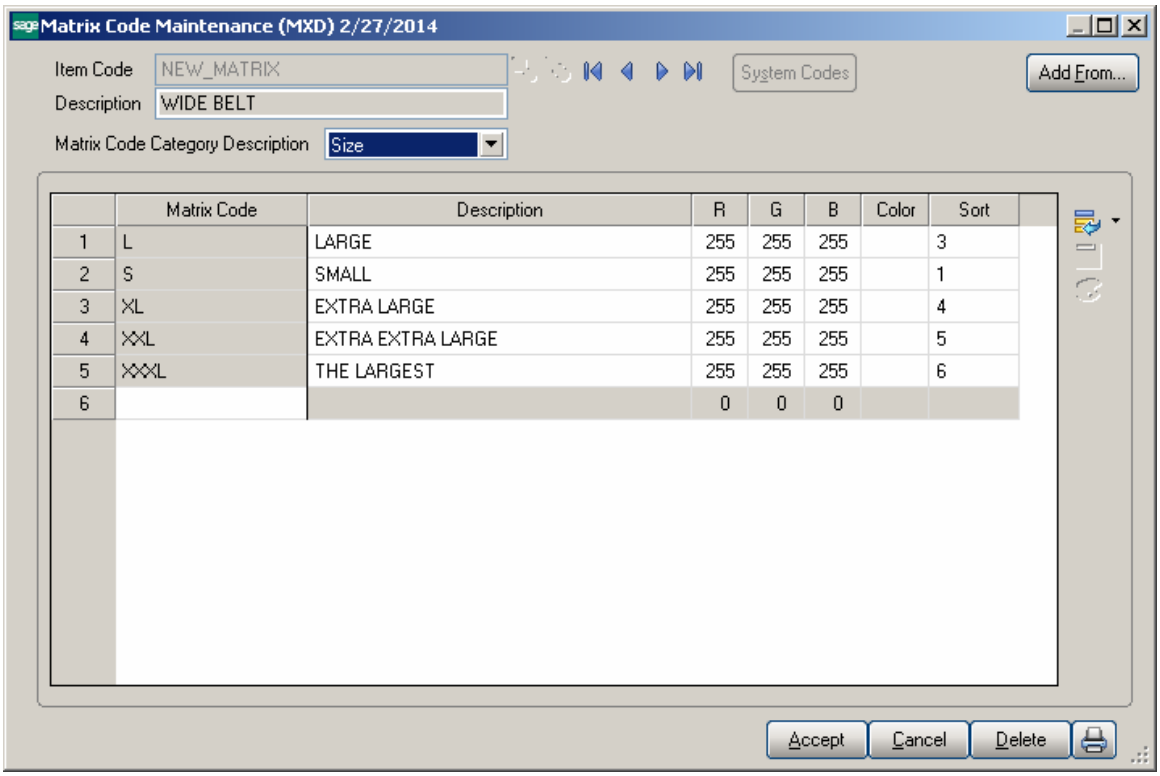
The **Copy Matrix Codes** window is opened upon pressing the **Add From**... button



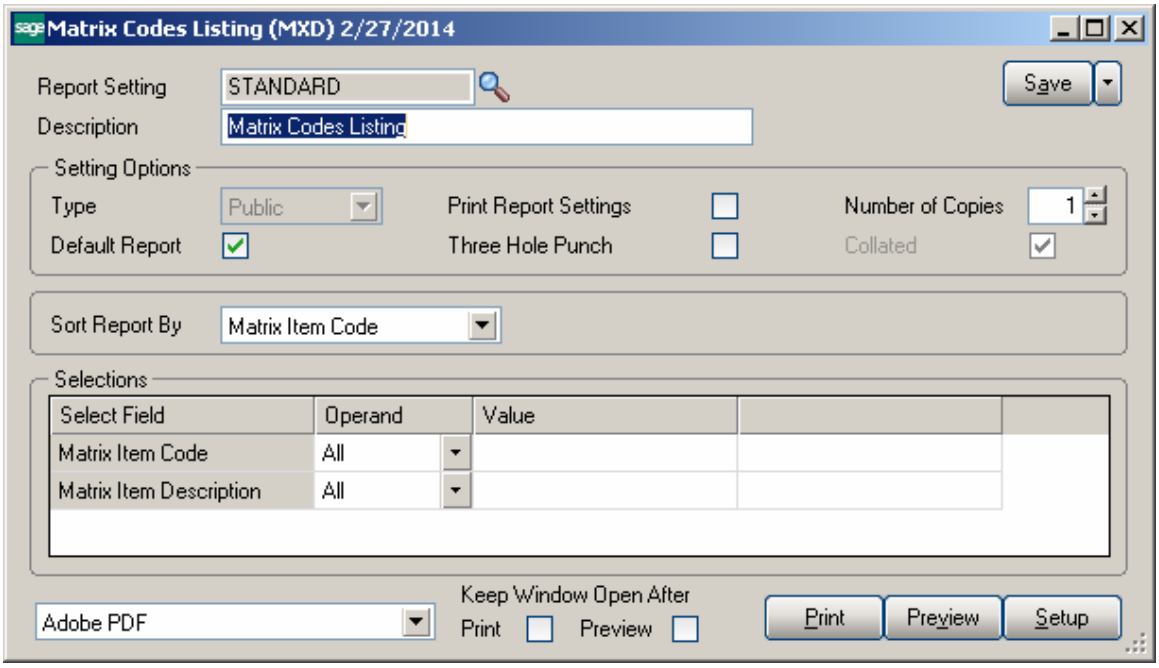
Select an Item you want the Matrix Codes to be copied from and press OK.



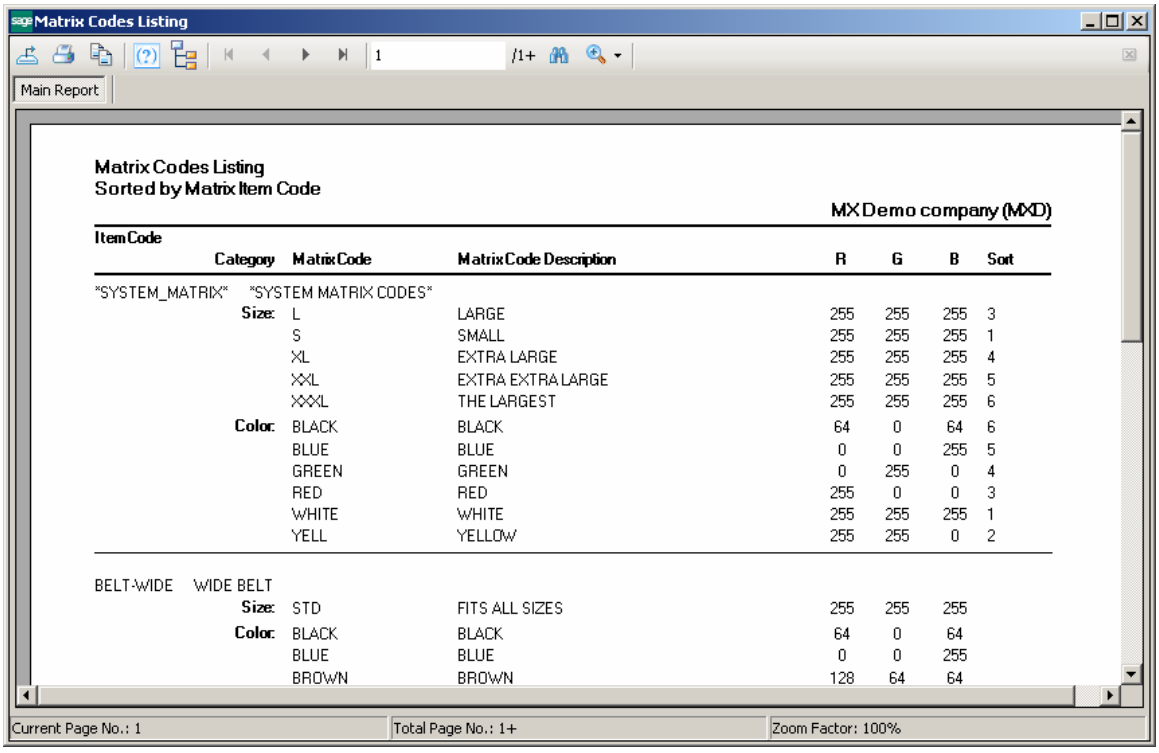
The Matrix Codes already entered for the destination Item will be retained, and the copied Codes will be added. If the Code being copied already exists, it is retained with all options and not overwritten by the added Code.



Pint button allows printing the Matrix Codes listing:



The report can be printed sorted by Matrix Item Code or Matrix Item Description. Default setting is Matrix Item Code.
Here is an example of printout for the report sorted by Matrix Item Code:



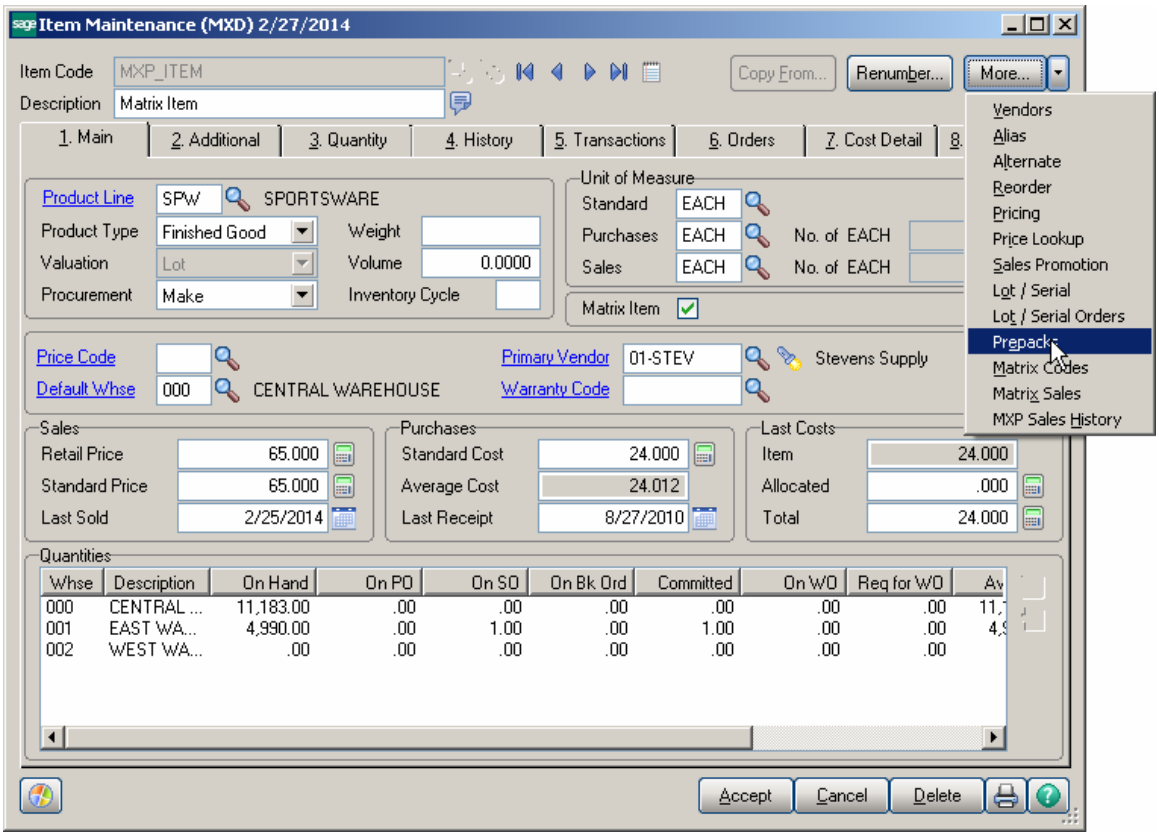
Item Code / Category	Matrix Code	Matrix Code Description	R	G	B	Sort
"SYSTEM_MATRIX"	"SYSTEM MATRIX CODES"					
Size:	L	LARGE	255	255	255	3
	S	SMALL	255	255	255	1
	XL	EXTRA LARGE	255	255	255	4
	XXL	EXTRA EXTRA LARGE	255	255	255	5
	XXXL	THE LARGEST	255	255	255	6
Color:	BLACK	BLACK	64	0	64	6
	BLUE	BLUE	0	0	255	5
	GREEN	GREEN	0	255	0	4
	RED	RED	255	0	0	3
	WHITE	WHITE	255	255	255	1
	YELL	YELLOW	255	255	0	2
BELT-WIDE	WIDE BELT					
Size:	STD	FITS ALL SIZES	255	255	255	
Color:	BLACK	BLACK	64	0	64	
	BLUE	BLUE	0	0	255	
	BROWN	BROWN	128	64	64	

This report is accessible also from Inventory Management Reports menu.

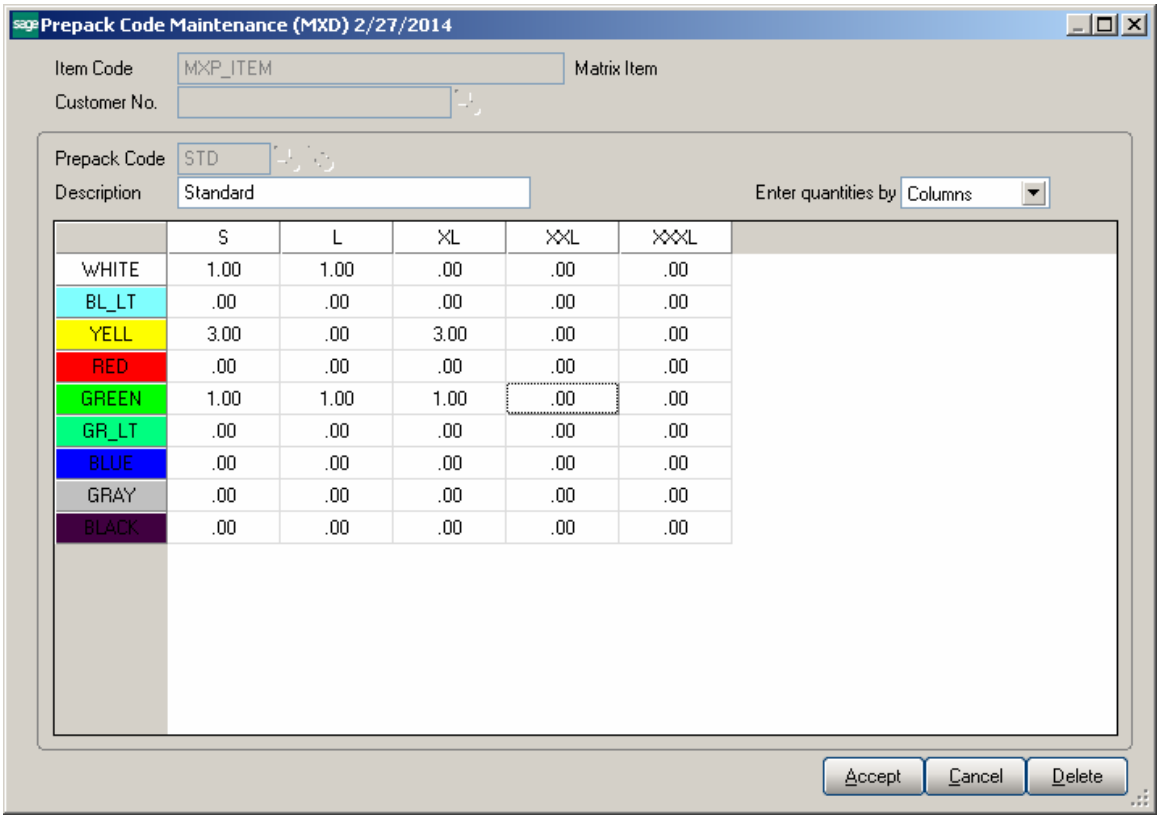
The initial grid is constructed from the Matrix Codes of the selected Item, if it has at least one Code of each Category. Otherwise system's Matrix Codes are used.

Prepacks

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



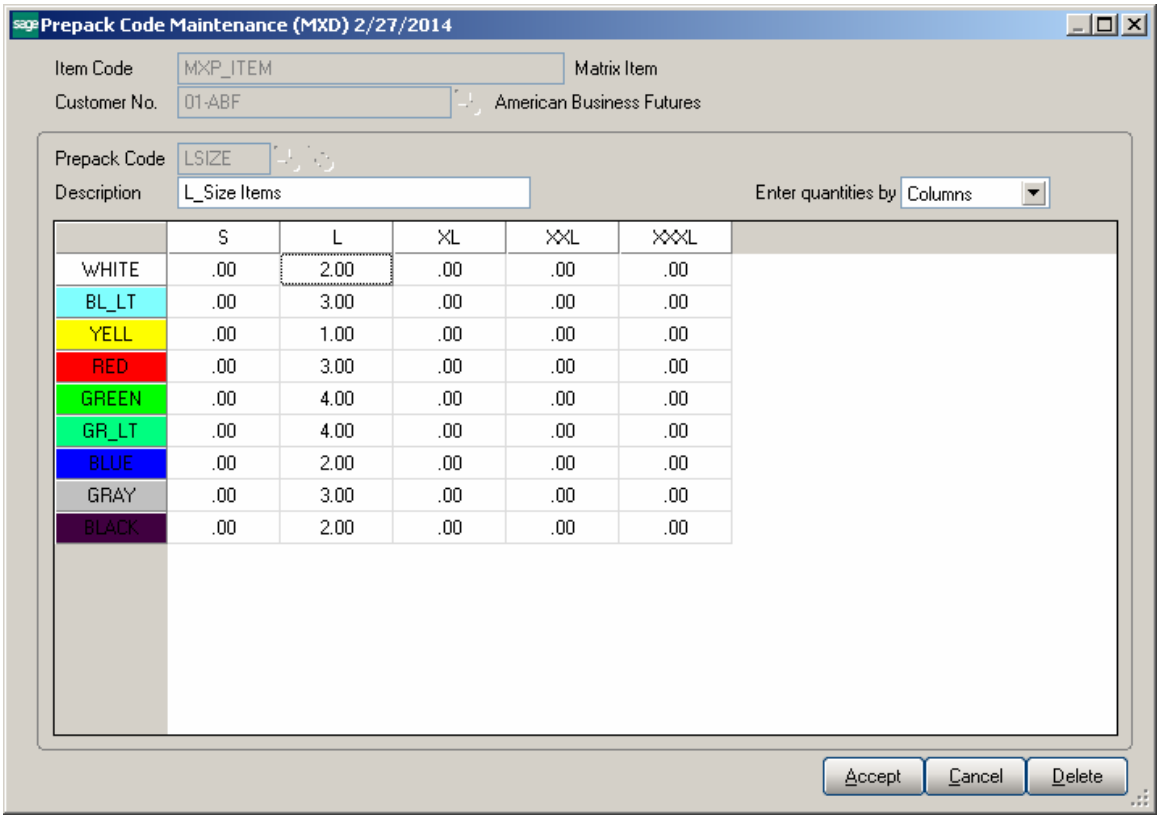
Click the **Prepacks** button from the **More…** menu button.



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:

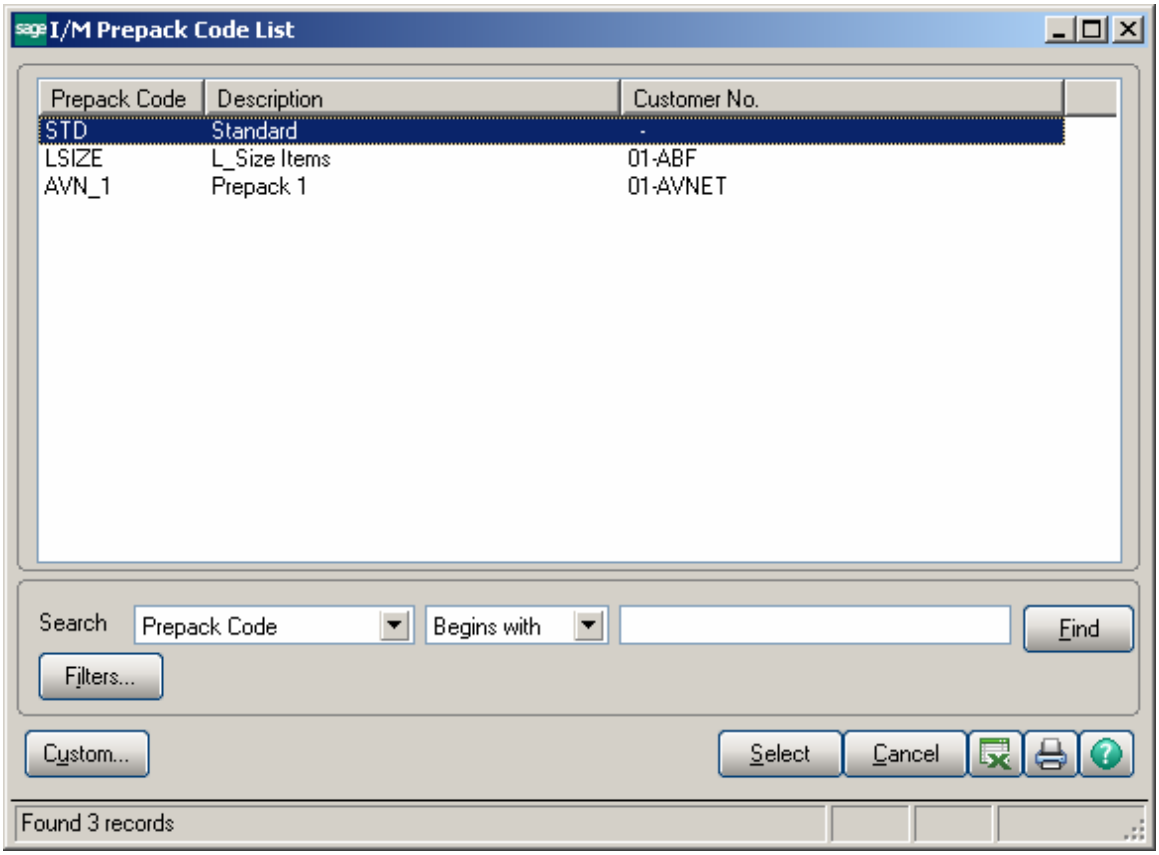


After pressing Enter, the focus moves to the next cell, which is activated by pressing Enter, double-clicking, or by directly entering the new quantity. The direction of moving the selection in the Grid when entering quantities is defined by the **Enter quantities by** drop-down list. It is defaulted 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**). 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 **Accept**. Click **Cancel** to clear all the changes for the selected/entered **Prepack Code**. Click **Delete** to delete the selected **Prepack Code**.

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 the Item's own).

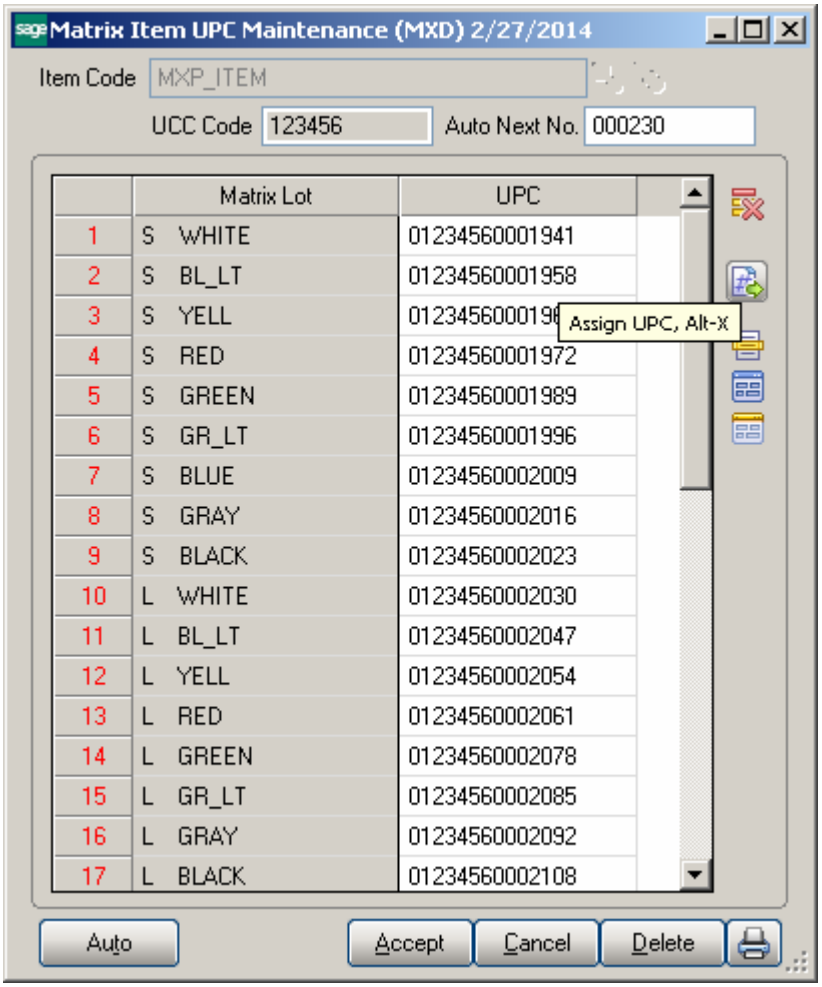


The initial grid is constructed from the Matrix Codes of the selected Item, if it has at least one Code of each Category. Otherwise system's Matrix Codes are used.

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. From the **Inventory Inquiry** program Prepacks can be only viewed but not modified or added

Matrix Item UPC Maintenance

The **Matrix Item UPC Maintenance** program under the **Inventory Management Setup** menu allows for assigning UPC Codes to the Matrix Lot.



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** settings configured in the **Matrix Options**.

The **Assign UPC** button allows for assigning a UPC code to the selected line.

Load All Existing Lots, Alt-S - this button allows loading all existing lots for the selected Item from IM_ItemCost table.

Load Existing Matrix Codes, Alt-L -this button allows loading all Matrix Codes setup for current Item in the Matrix Code Maintenance.

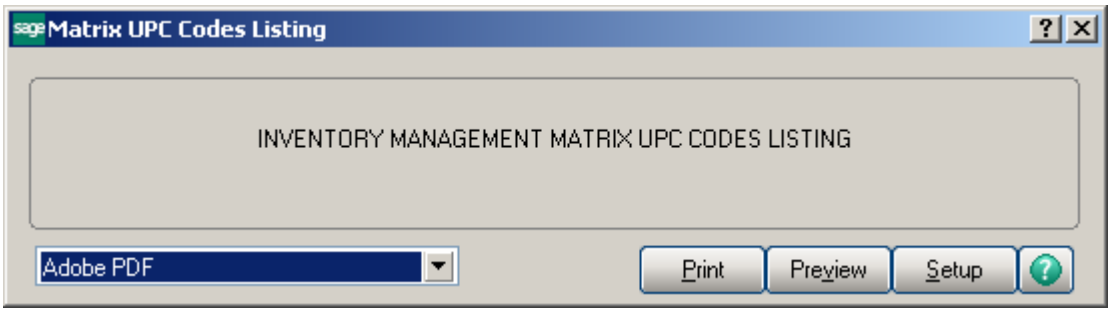
Load System Matrix Codes, Alt-M - this button allows loading the System Matrix Codes setup in the system.

The **Auto** button allows for assigning codes automatically to all the listed Lot Numbers not having UPC Codes yet.

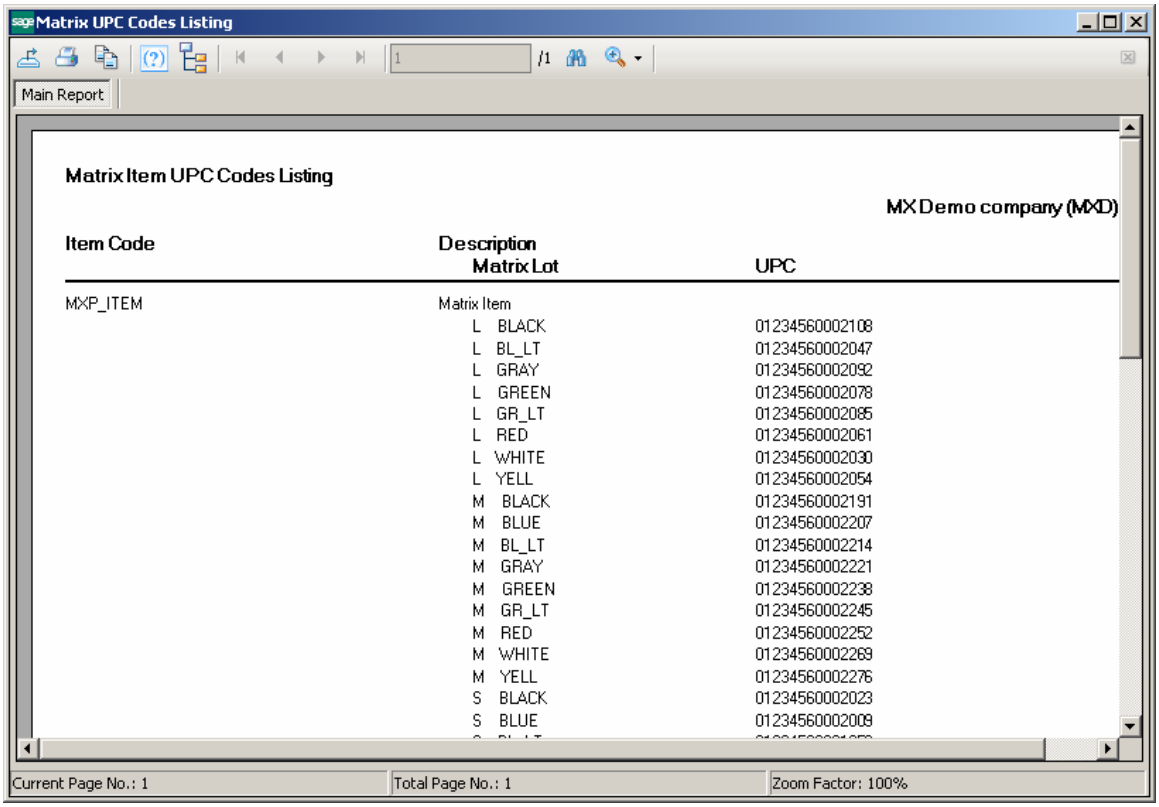
Any valid UPC Code may be entered. If the **Allow Only Selected type** box is not checked in the UPC options, the length can be 12, 13 or 14 digits. If the entered UPC Code is 13 or 12 digits long, the program adds one or two zeroes correspondingly to the beginning of the Code. The Checking Digit is 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.

Print button allows for printing the Matrix UPC Codes Listing:



Here is an example of printout:



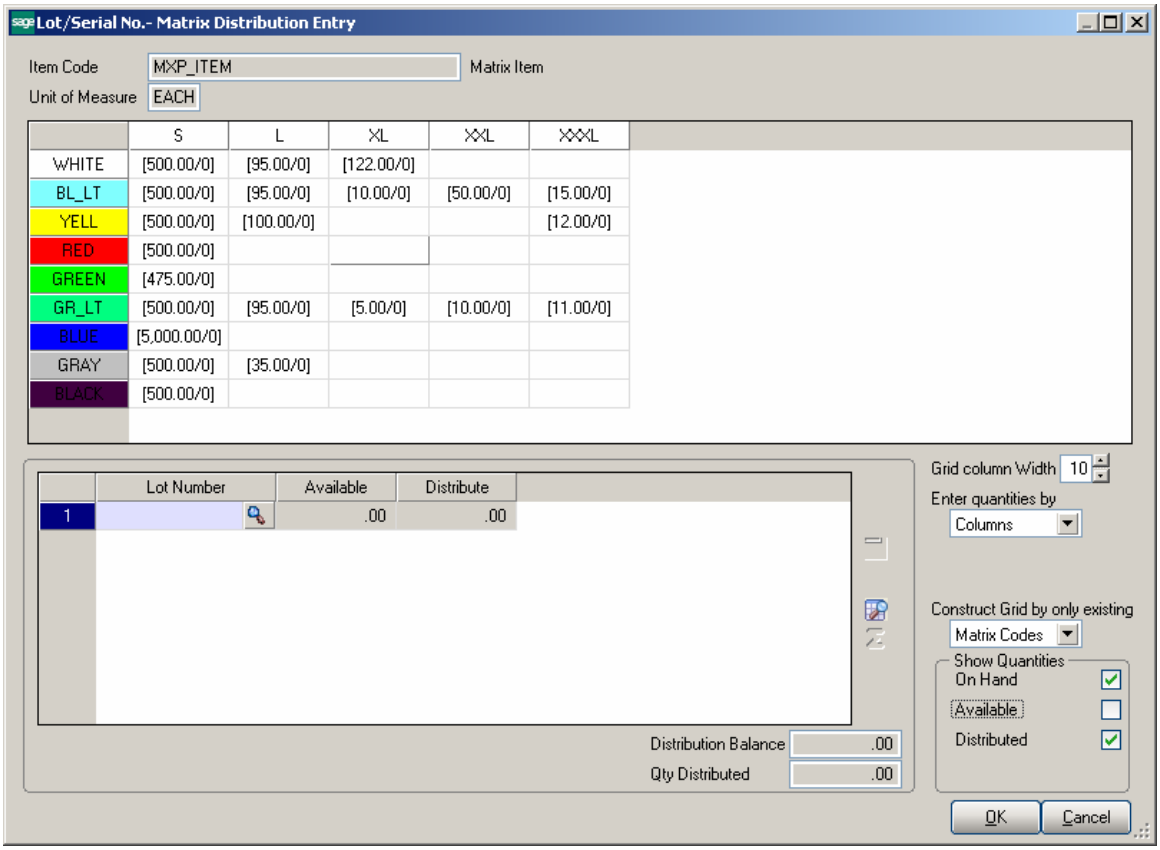
Matrix Distribution

Purchase Order Entry

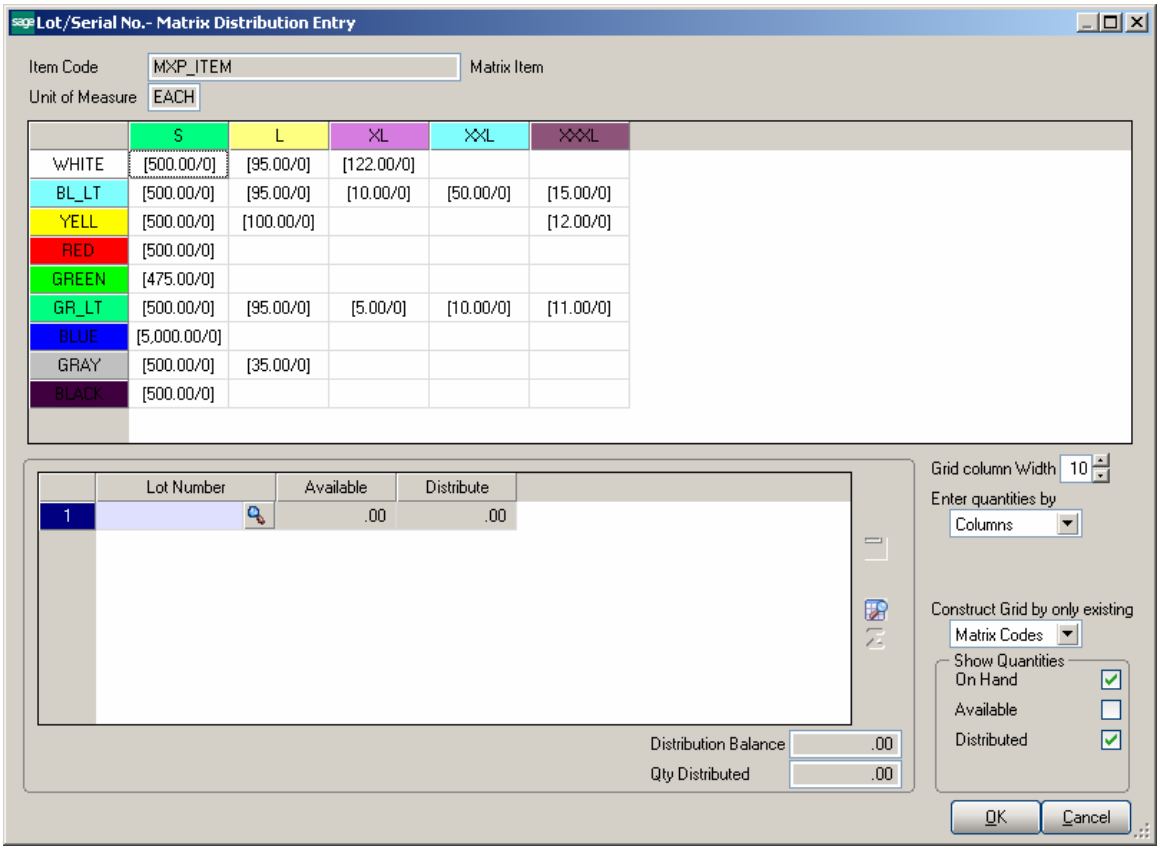
Select the **Purchase Order Entry** program under the Purchase Order Main menu.

The Matrix Distribution is allowed for Standard Order Type and Repeating Orders (if corresponding checkbox is selected on the Purchase Order tab of the Matrix Options). 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 **Matrix Options** on the **Purchase Order** tab, the following **Matrix Distribution Entry** screen is displayed.



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 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.



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.

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 order.

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 cursor in the Grid when entering quantities. You can choose to enter all the quantities in the first row, and then move to the second, and so on (by Rows). The cursor moves to the next cell when accepting the quantity entered in the cell of current row. 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 cursor 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 Lot Numbers (they are listed on the Lot Numbers List) already exist. Select Matrix Codes to display all Matrix Codes for the selected item from the Matrix Code Maintenance.

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 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.

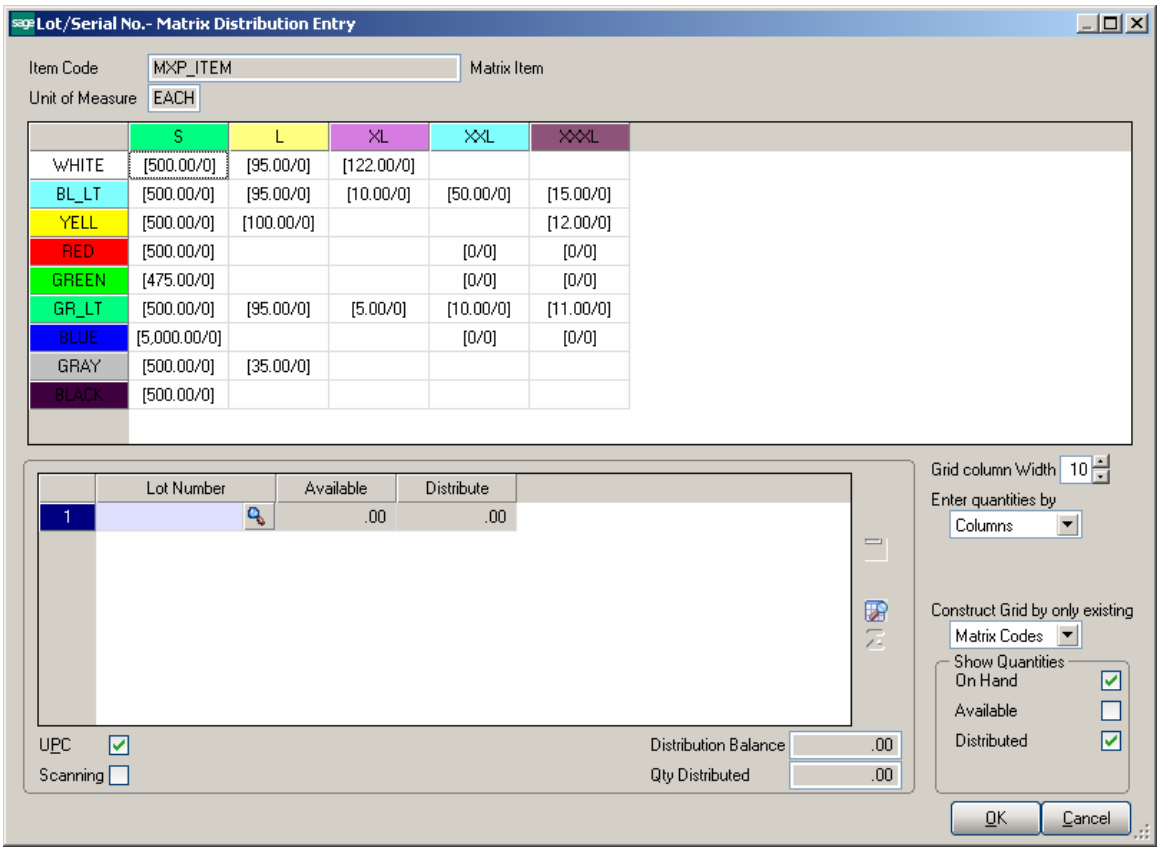
The **Distribution Balance** field displays the difference of Quantity Ordered and Quantity Distributed in the Matrix Distribution.

If the **Matrix Distribution Auto Popup in P/O Entry** box is cleared in the Matrix Options, the Quantity Distributed button is enabled only after entering the Quantity Ordered and the Matrix Distribution grid is auto popup upon moving the focus from the line.

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.

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.

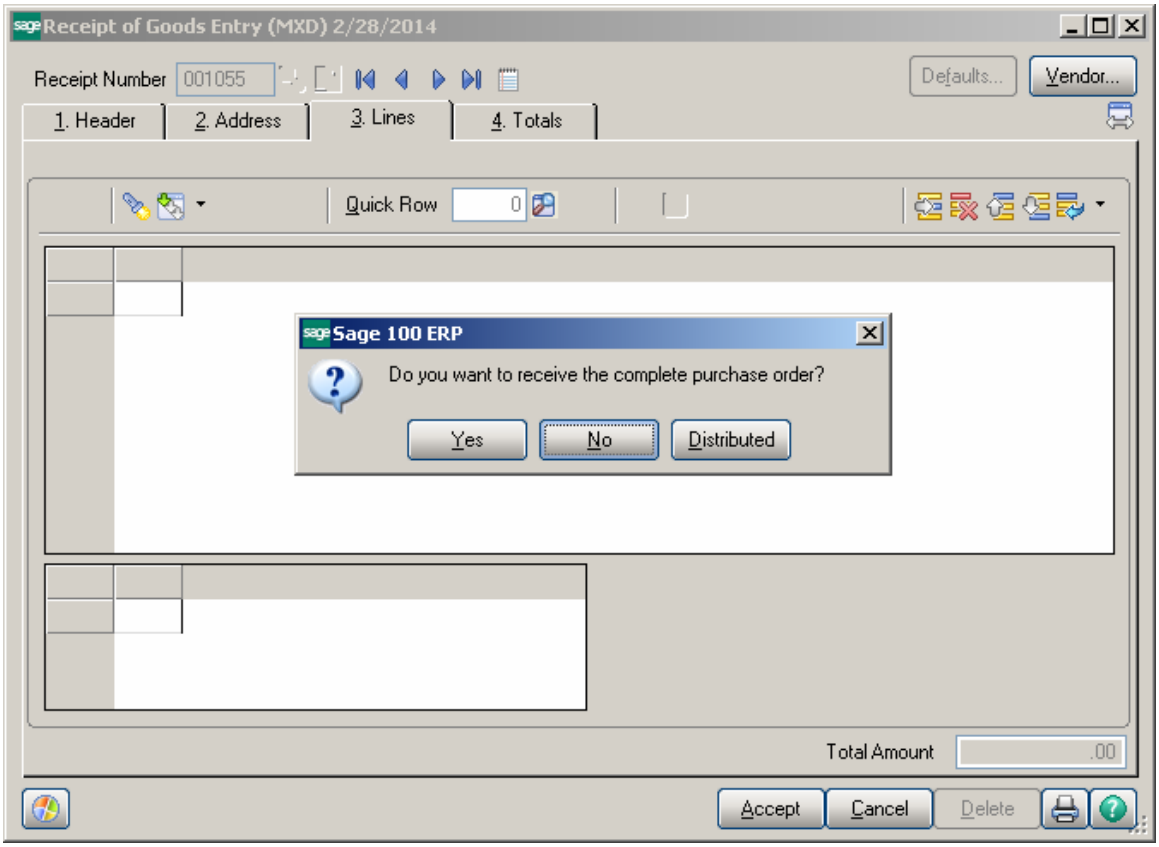
The **Quantity On PO** field displays the distributed quantities on Purchase Order.

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 is treated as regular Lot Number.

The **Scanning** sequence (++UPC++ by default) specified in the **UPC** section of **Matrix 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 is checked by default with the **UPC Code** field enabled to allow for entry of a UPC Code for the selected/entered Lot Number, which don't have UPC Code specified in the UPC Code Maintenance.

If the **Receipt of Goods** is based on a Purchase Order a message is popup on the Lines tab of the Receipt of Goods Entry allowing the user to receive the quantities distributed in the PO, all the quantities regardless distribution or don't receive any:
Here is an example of **Purchase Order-> Receipt** processing:



The following message is appeared in the Receipt of Goods Lines tab when the Order is received.

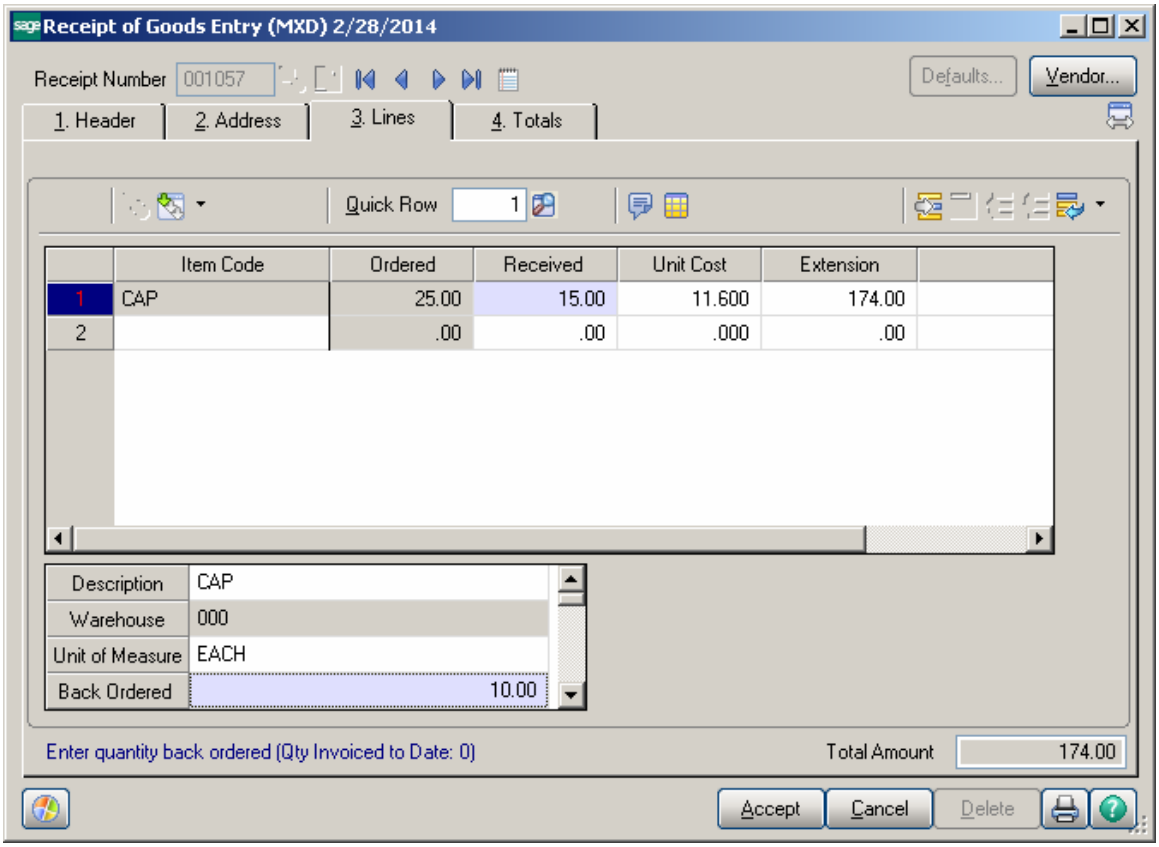
If **Yes** is selected all the quantities ordered will be received entirely, with the quantity received equal to the quantity **Ordered.**
In this case the matrix item distribution is carried over from the Purchase Order to the Receipt. If the entire quantity distributed in the Purchase Order is not received, and the distribution of the Order is changed in the Receipt entry so that to back order the quantities from the same Matrix/Lots; the Purchase Order distribution is retained in the back order generated during the Daily Receipt/Registers update.

Note: The Purchase Order distribution is not retained in the Back Order, generated during Daily Receipt/Registers update, in the following cases:

- *If the quantity to be placed on back order is not equal to the "Qty Ordered - Qty Received".*
- *If there is even a quantity back ordered from a Matrix/Lot other than the ones distributed in the Purchase Order.*

When **No** is selected the Purchase Order lines are loaded in the grid with 0 quantity received.

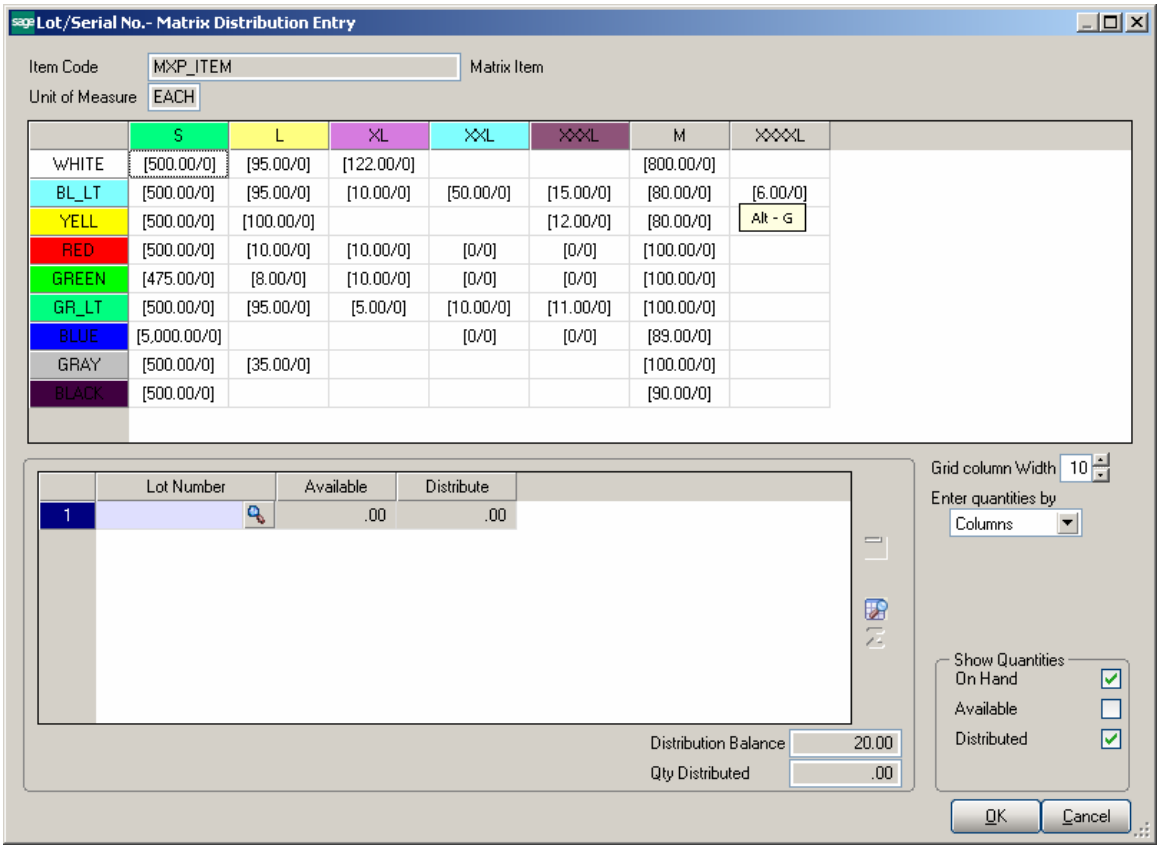
Selecting **Distributed** will load the lines of PO with the **Quantity Received** set equal to the quantities distributed in the Purchase Order and the quantities not distributed in the PO will be set as Backordered Quantity.



Return of Goods Entry

Select the **Return of Goods Entry** program under the Mat. Req/Return menu.

In the Lines tab, select a Matrix Item. If the Return 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.

If the **Return Of Goods** is generated through the **RMA Generate Transactions** program the distribution is transferred from the RMA Receipt Entry with the **Quantity Returned** set equal to the **Quantity Distributed**.

*Note: If the **Summarize Multiple Items** checkbox is selected on the **Generate Transactions** screen the Matrix Item distribution will not be transferred to the generated Return of Goods from the **RMA Receipts Entry**.*

When running the **Return Order Register/Update** program checking is performed by **Qty On Hand** and error log is printed to prevent the user from updating the journal if the total **Qty Returned** for some lot number by Warehouse exceeds the **Qty On Hand** for it.

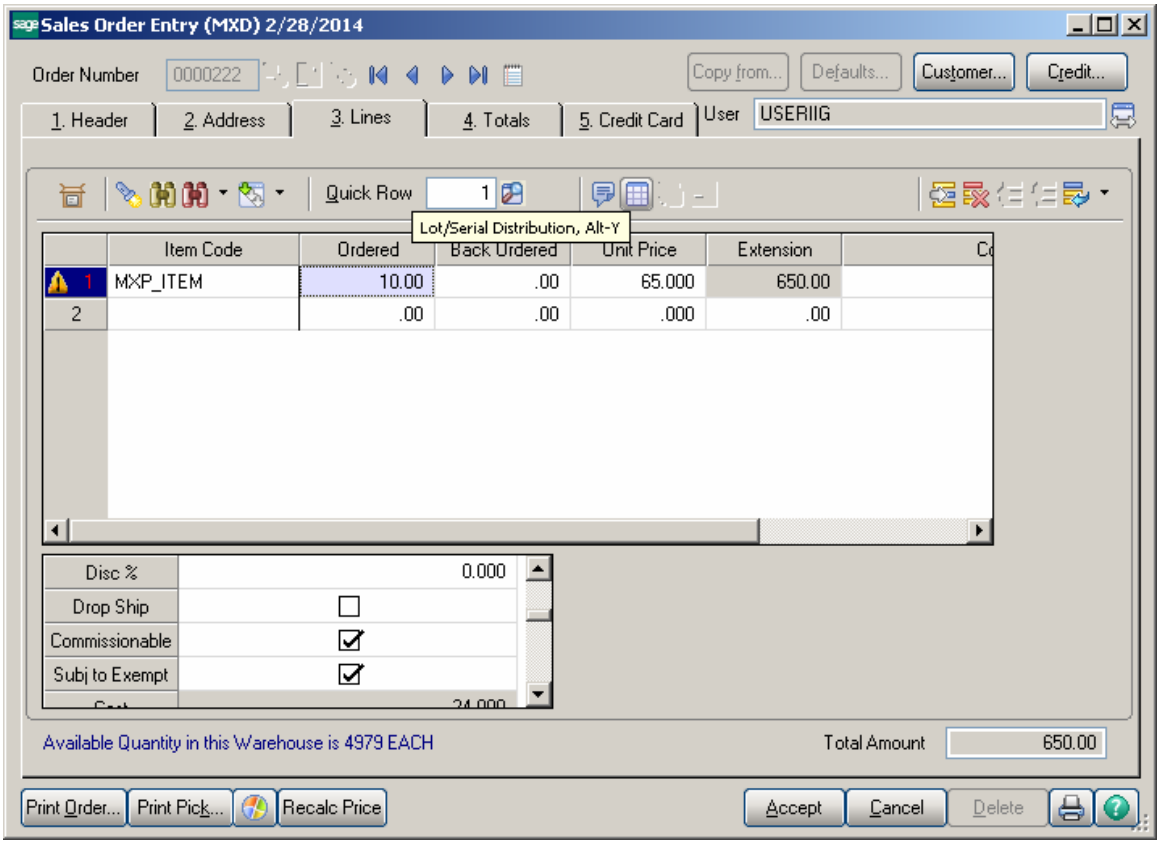
Sales Order Entry

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

The Matrix Distribution is allowed only for Standard, Back Orders and Quotes if the Price Quote checkbox is selected in the Matrix Options.

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.

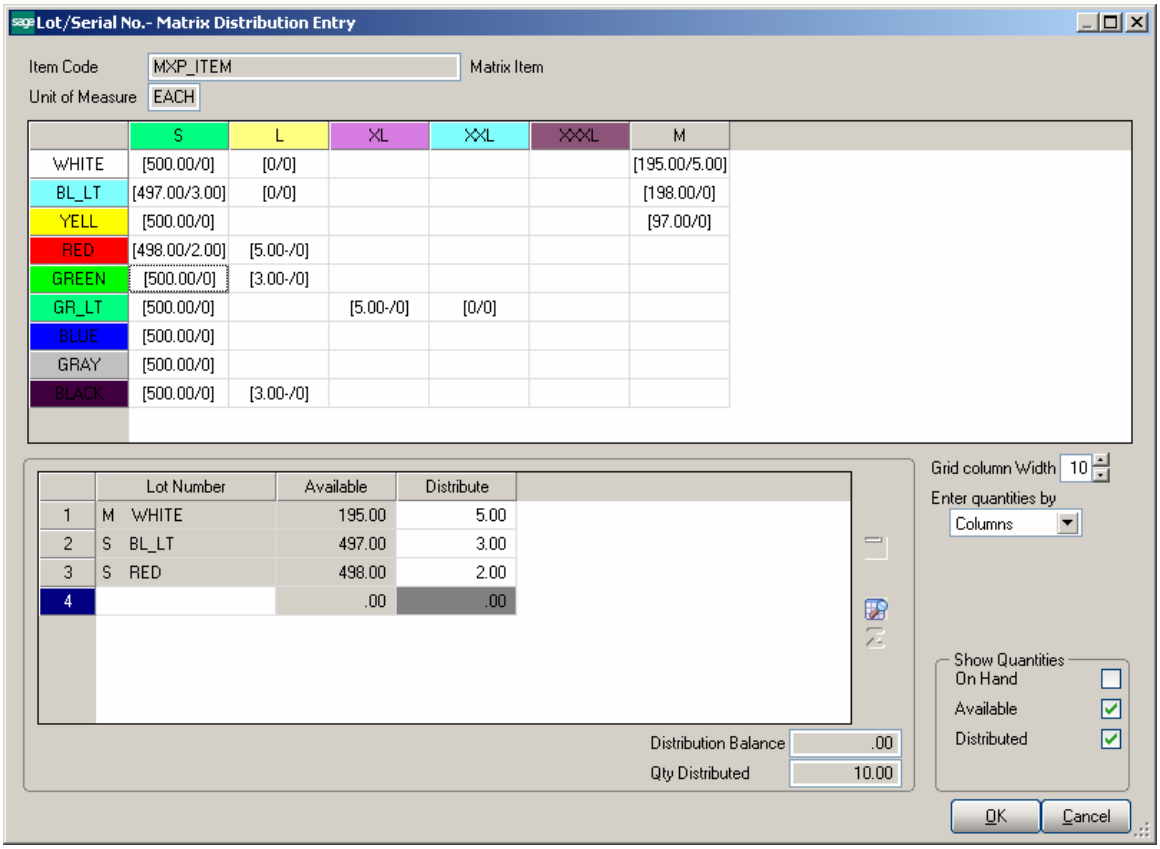


The quantity should be distributed in the **Matrix Distribution** screen, which is similar to the screen in the **Receipt of Goods** program.

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

If the **Matrix Distribution Auto Popup in S/O Entry** box is checked in the Options, the distribution screen is automatically popup when focus falls into the Ordered field.

If a UPC Code is scanned, when the focus is in the **Item Code** field, the program checks if the scanned UPC code is assigned to any Lot Number of the selected item, and auto distributes by that 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 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 in Price Quote box is checked in the Matrix Options, the distribution for Matrix items is also available for Price Quote Sales Orders.

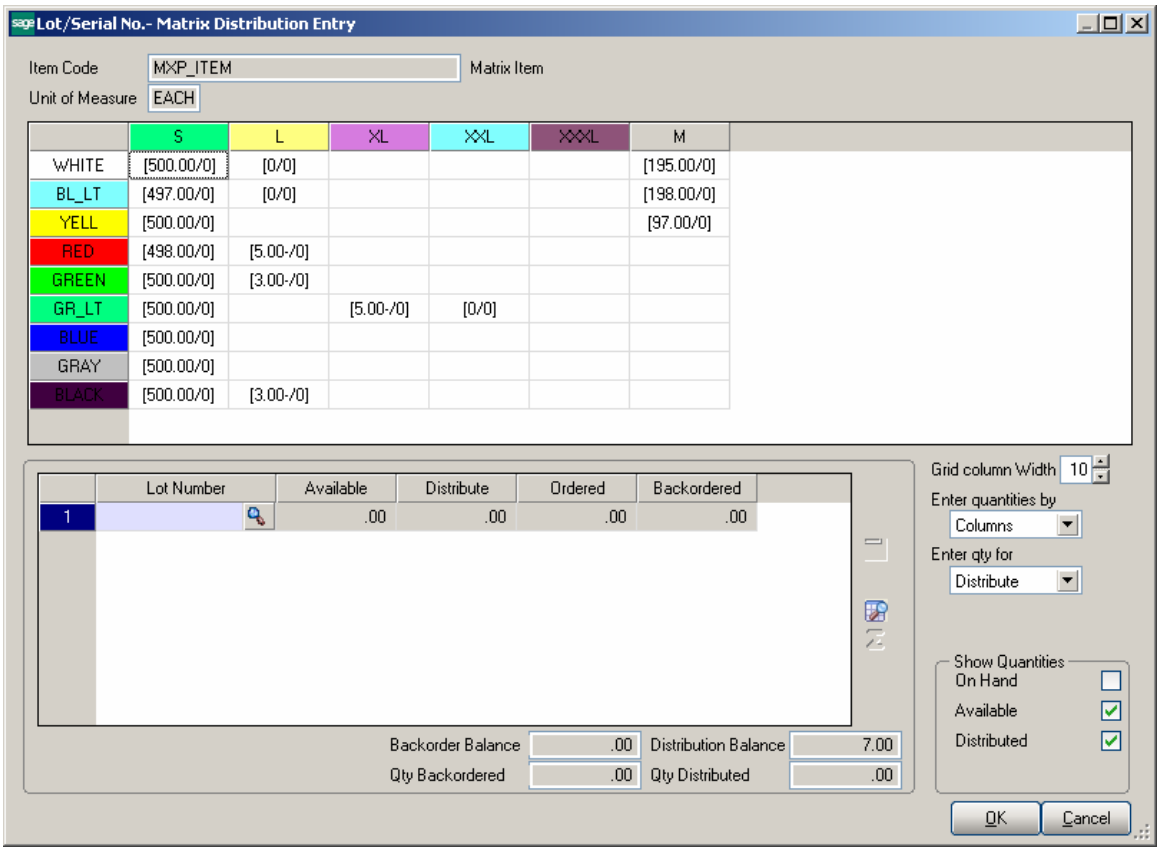
Matrix distribution entered for the Price Quote is preserved when converting to Standard Order.

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 a little different from the distribution screen opened 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:

Use 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.

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.

From the **Enter Qty for** drop-down list select **Distribute** or **Backordered**. This option indicates the entry parameter for the distribution grid. If **Distribute** is selected the number entered in the grid is treated as the Qty Distributed. If Backordered is selected it will be treated as the Qty Backordered.

There is also an option provided in the grid for easily entering the Distribute and Backorder quantities for a matrix lot at once. It is necessary to enter corresponding numbers separated by slash (e.g 2/3) in the distribution grid and the Lot Number line with respective Distributed/Backordered quantities will be added in the below list.

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

The Matrix Grid is automatically resized upon changing the size of Matrix Distribution screen.

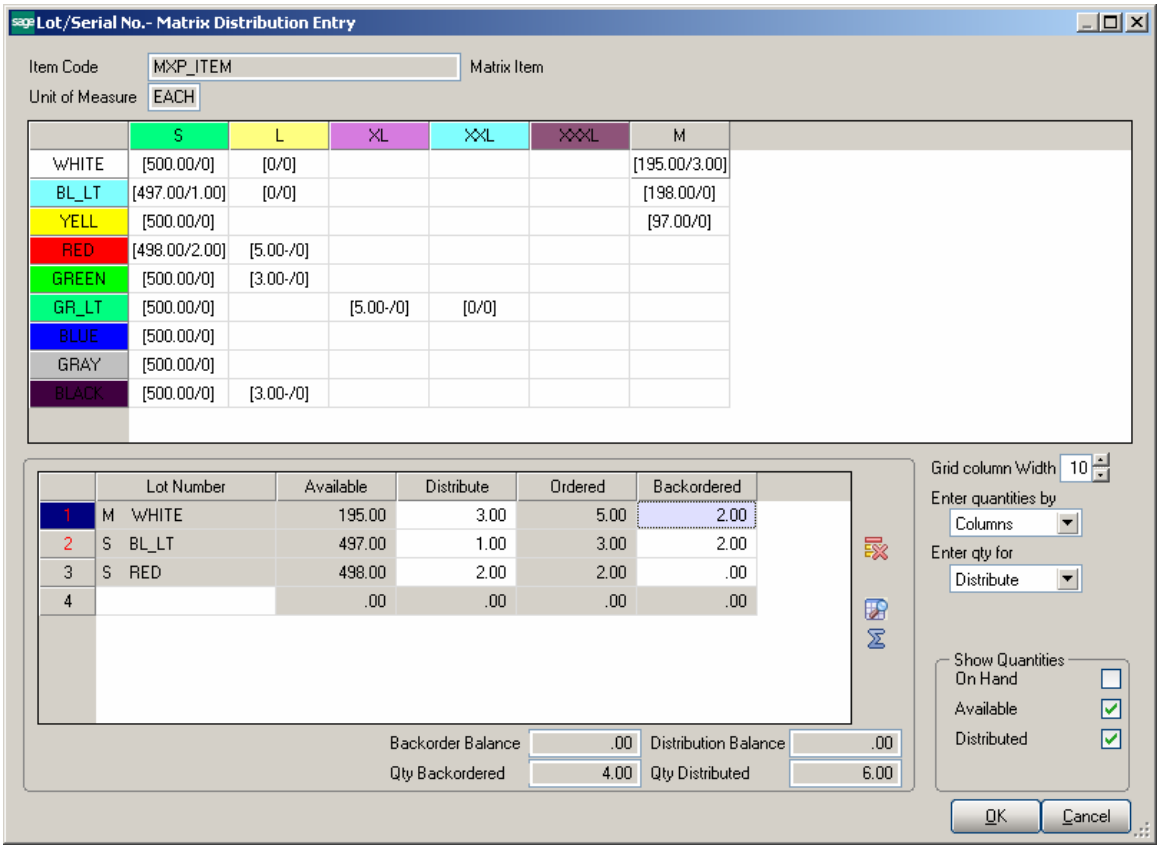
In the **Show Quantities** section, check the boxes corresponding to the quantities to be displayed in the matrix distribution grid. Quantities **On Hand**, **Available**, and **Distributed** can be selected. Each cell of the grid will display the selected quantities, separated by slashes.

If a UPC Code is scanned (entered) while the focus is in the **Item Code** field, the program checks if the scanned UPC code is assigned to any Lot Number of the selected item, and distributes automatically by that Lot number.

If Invoice is created for a Sales Order with **Auto Generate Invoice Selection** program, the distribution of the order is transferred to the invoice.

Backorder Processing for Matrix Lots

The Backorder functionality for Matrix Lots has been provided in the **Invoice Data Entry**. In case the Sales Order is partially shipped the backorder quantities for the Matrix Lots being backordered should be entered in the corresponding **Backordered** field on the Matrix distribution screen.
The Backorder quantity may be entered manually as well as calculated automatically upon entering the Distributed quantity. Upon entering the distributed quantity backordered quantity is automatically calculated as follows: “Qty Ordered – Qty Distributed”.

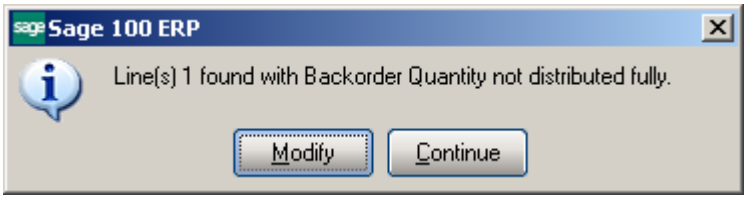


Distribute- quantities distributed for current Lot Number.
Ordered- displays the quantity ordered for current Lot Number and can only be viewed.
Backordered – allows for entry of the Lot Number quantities to be backordered.

Backorder Balance- this field displays a running total of the remaining backorder quantity to distribute, and can only be viewed.

The user will not be able to **Accept** the Invoice and a message will popup in case the Backordered quantity entered in the Distribution grid is greater than the Backorder Qty on the Invoice line resulting in Negative Backorder Distribution Balance.

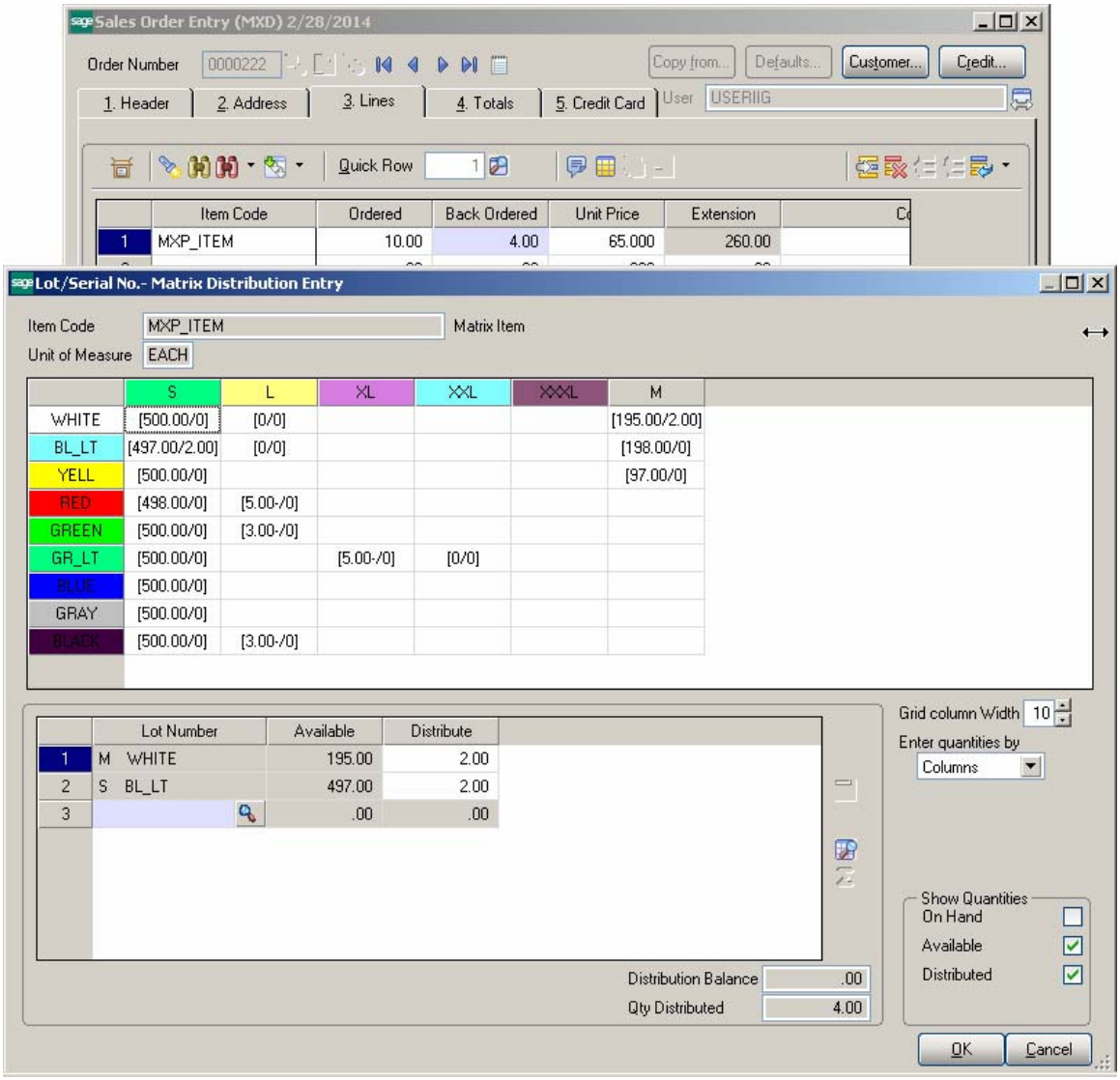
The user is allowed accepting the Invoice in case the Back Order Balance is not 0, that is there are Back Order quantities remaining to distribute.



Selecting **Continue** allows the user to accept the Invoice entry. In this case no distribution is carried over to the backorder generated in a result of Sales journal update. The Distribution should be done in the Sales Order entry.

Qty Backordered- this field displays the total of backordered quantity distributed by Lot Numbers.

Here is an example of Backorder created in a result of Sales Journal Update when the Order is partially shipped with the Sales Order Matrix Lot distribution preserved:



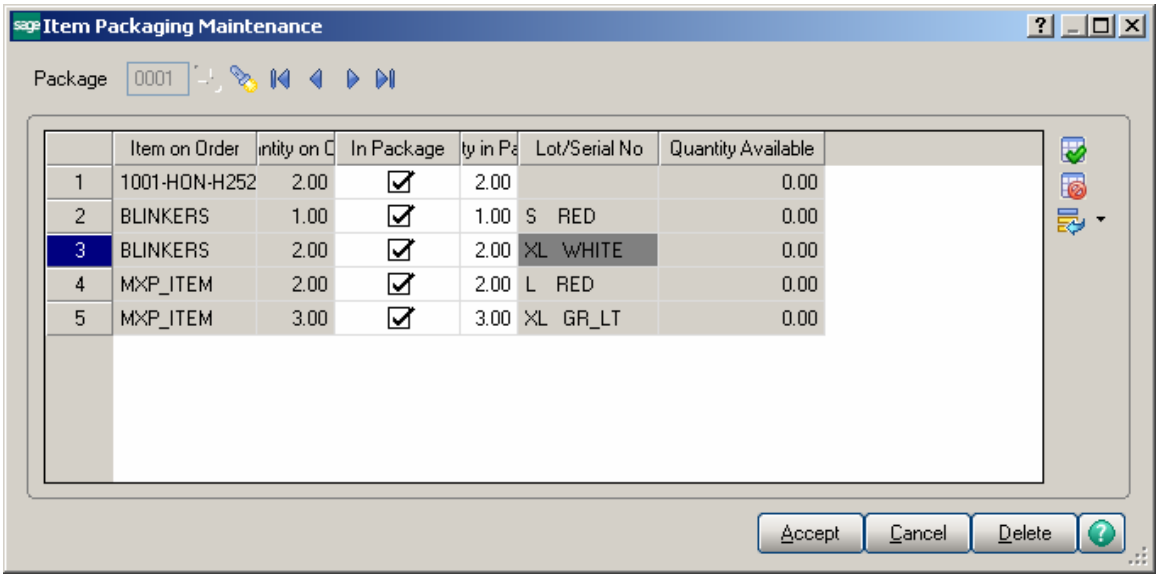
The distribution in the created backorder is done based on the backordered quantities entered in the Invoice Matrix Distribution screen.

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) while 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 with 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.



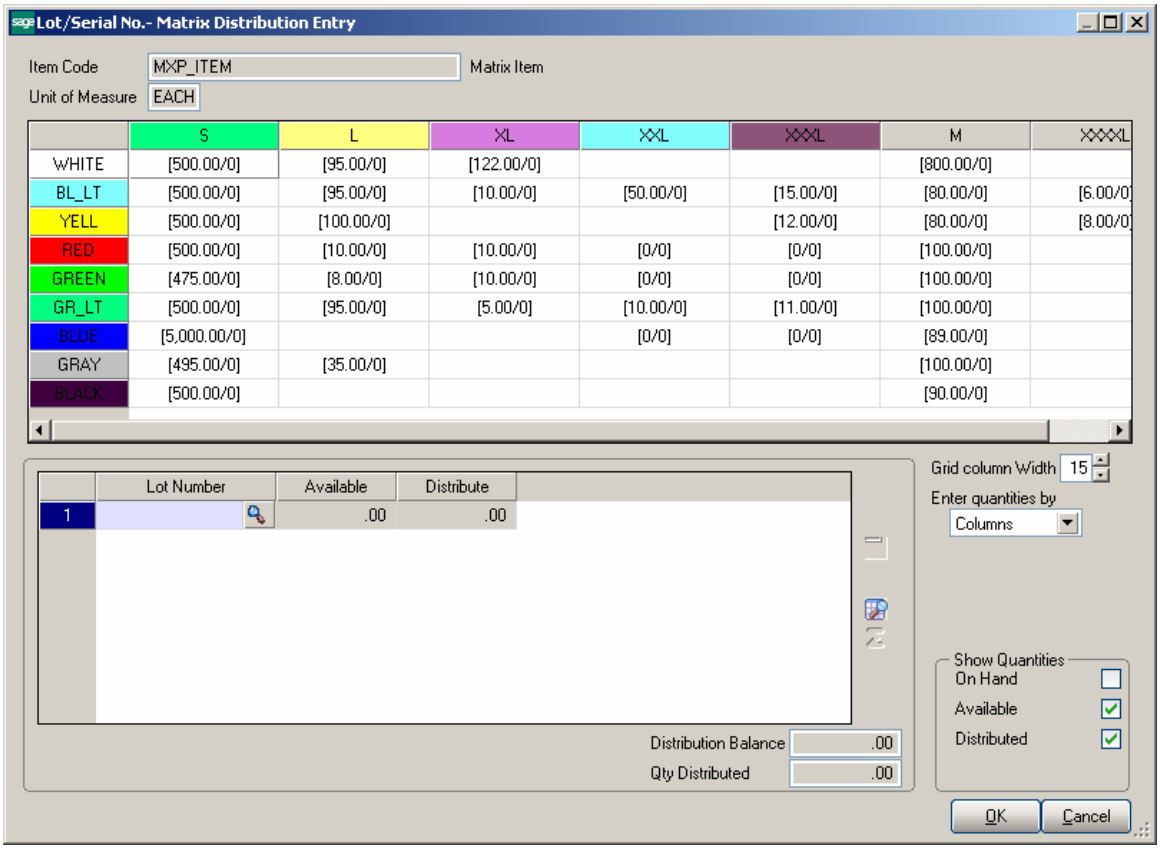
Inventory Transaction Entry

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

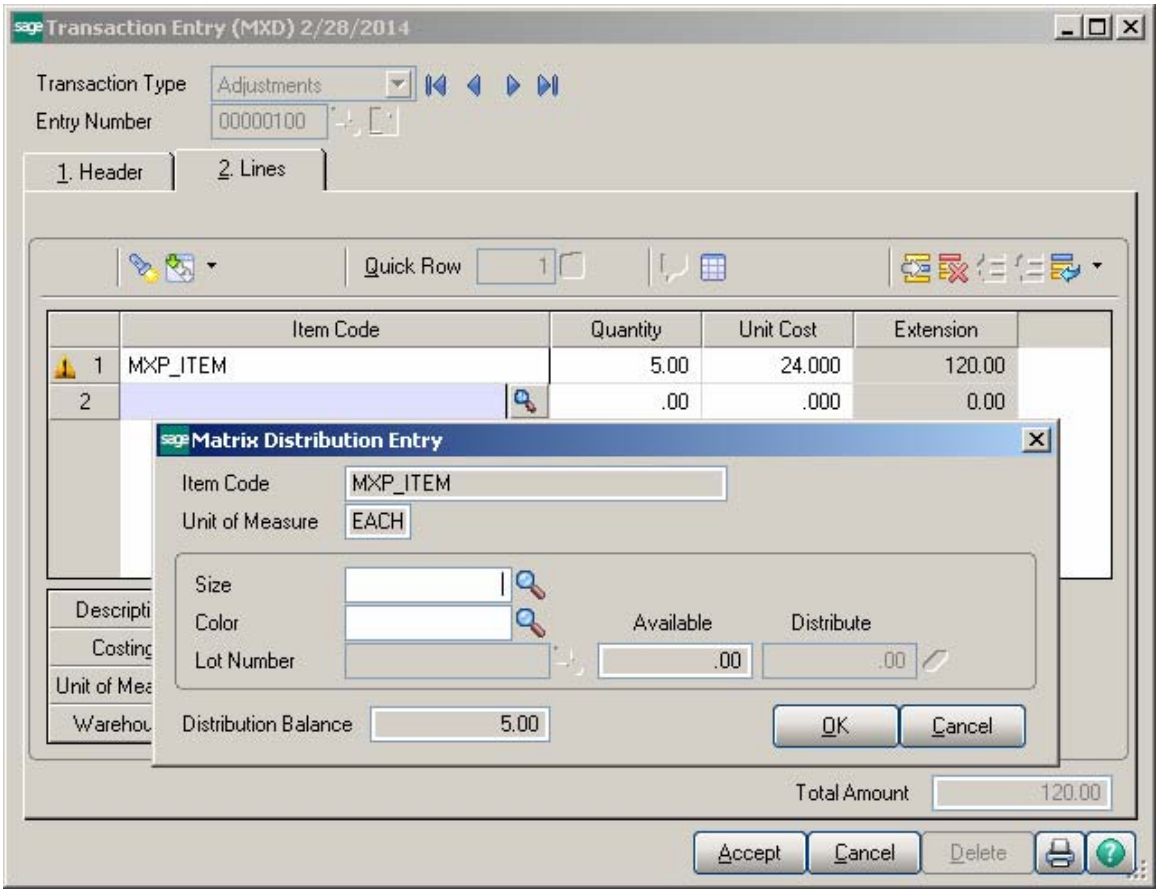
The Matrix Distribution screen is the same for Sales, Transfers, and Receipts transaction Types.

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.

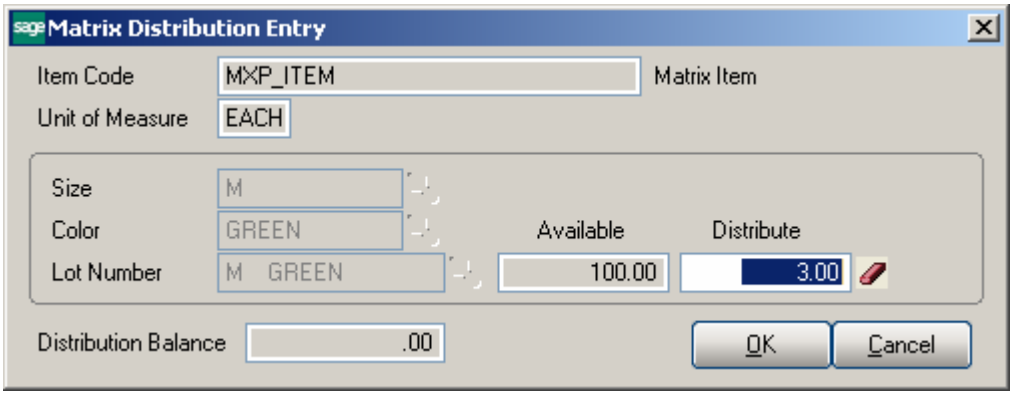
The Matrix Distribution screen is similar to the screen in the Sales Order Entry program.



For **Adjustment Transaction** the Matrix Distribution Entry is opened allowing the user to specify the Lot Number/Matrix Codes for the line item being adjusted.



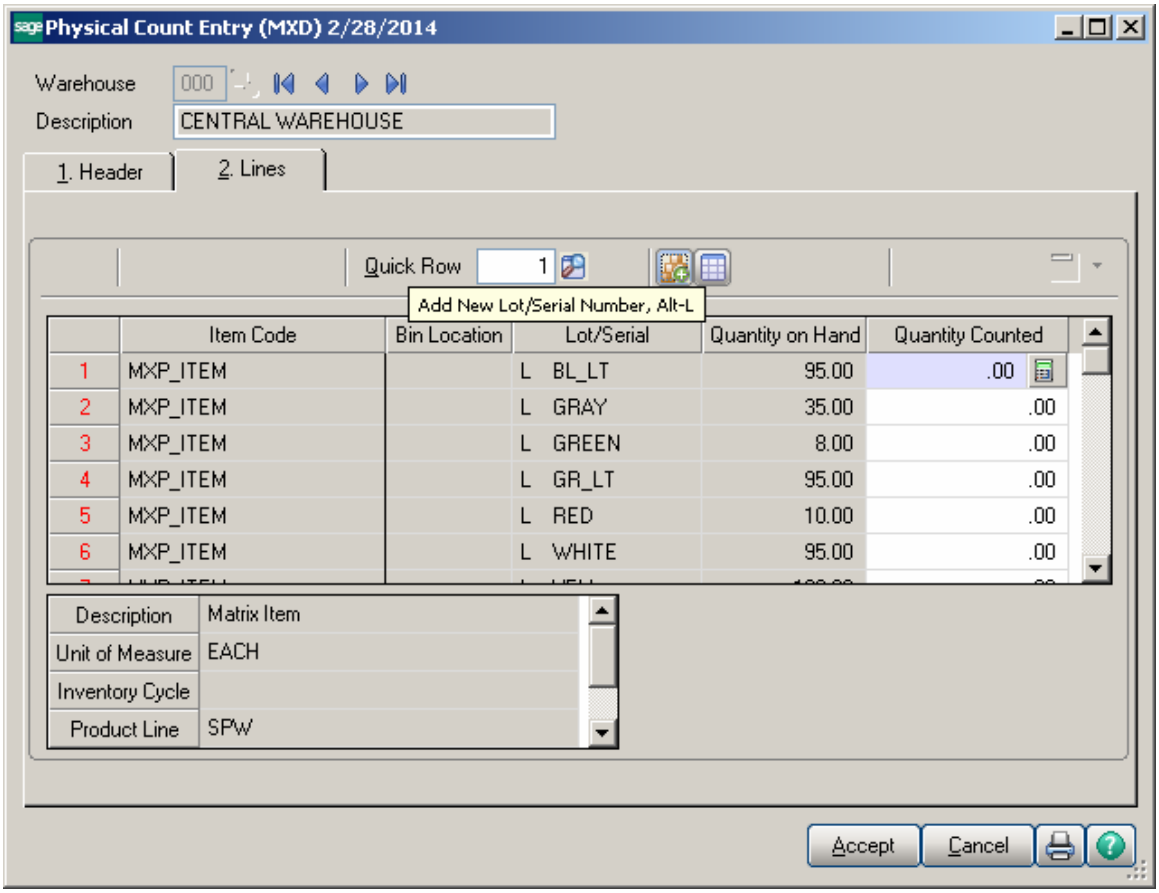
The user may select the Size and Color code to create the Lot Number automatically or specify an existing Lot Number.



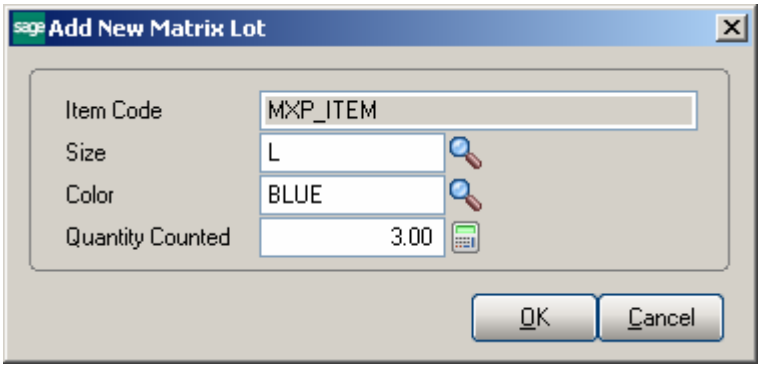
During the Transaction Register update checking is performed by the Matrix item Lot Committed Qty by warehouse and error log is printed to prevent the user from updating transaction journal if the Qty Committed in the *I/M Transactions for some lot number by Warehouse exceeds the* ***Qty On Hand*** *for it.*

Physical Count Entry

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



On the **Lines** tab, clicking the **Add New Lot/Serial** button for Matrix Item displays the following screen instead of the standard:

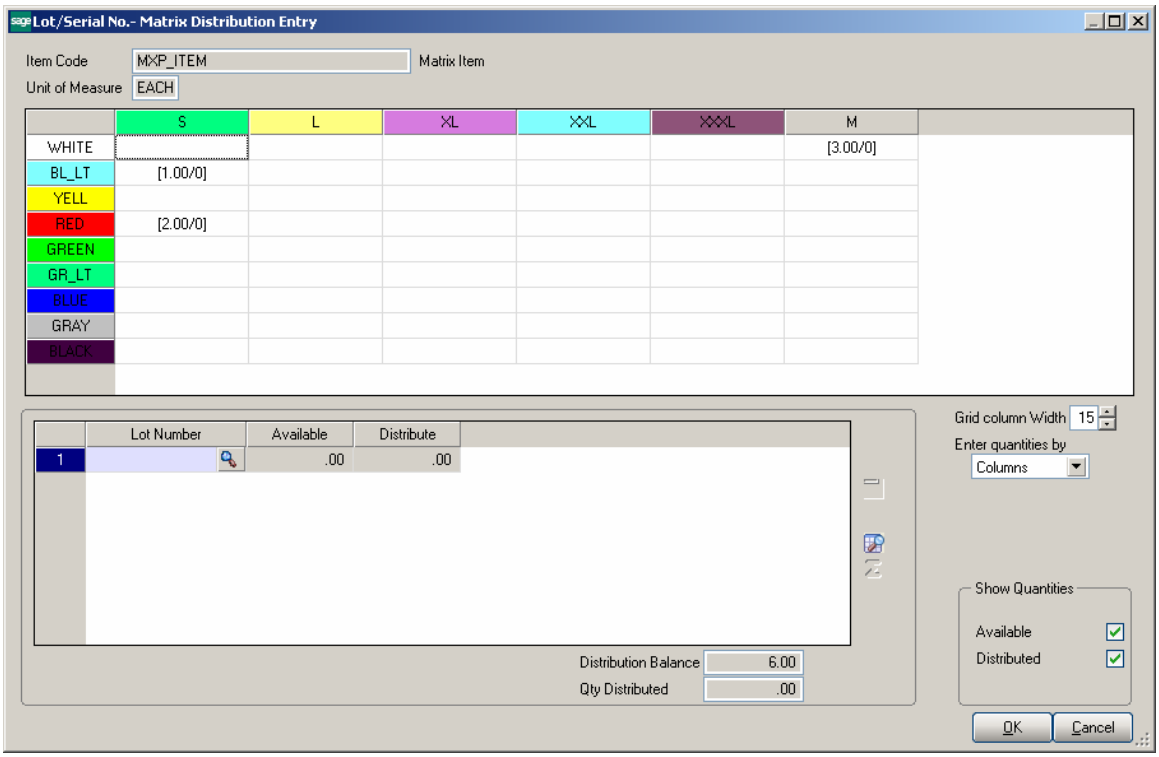


Enter Codes of the first and second Categories, which descriptions are displayed. You can enter new Matrix Codes, or enter/select existing Matrix Code from the lookup.

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.

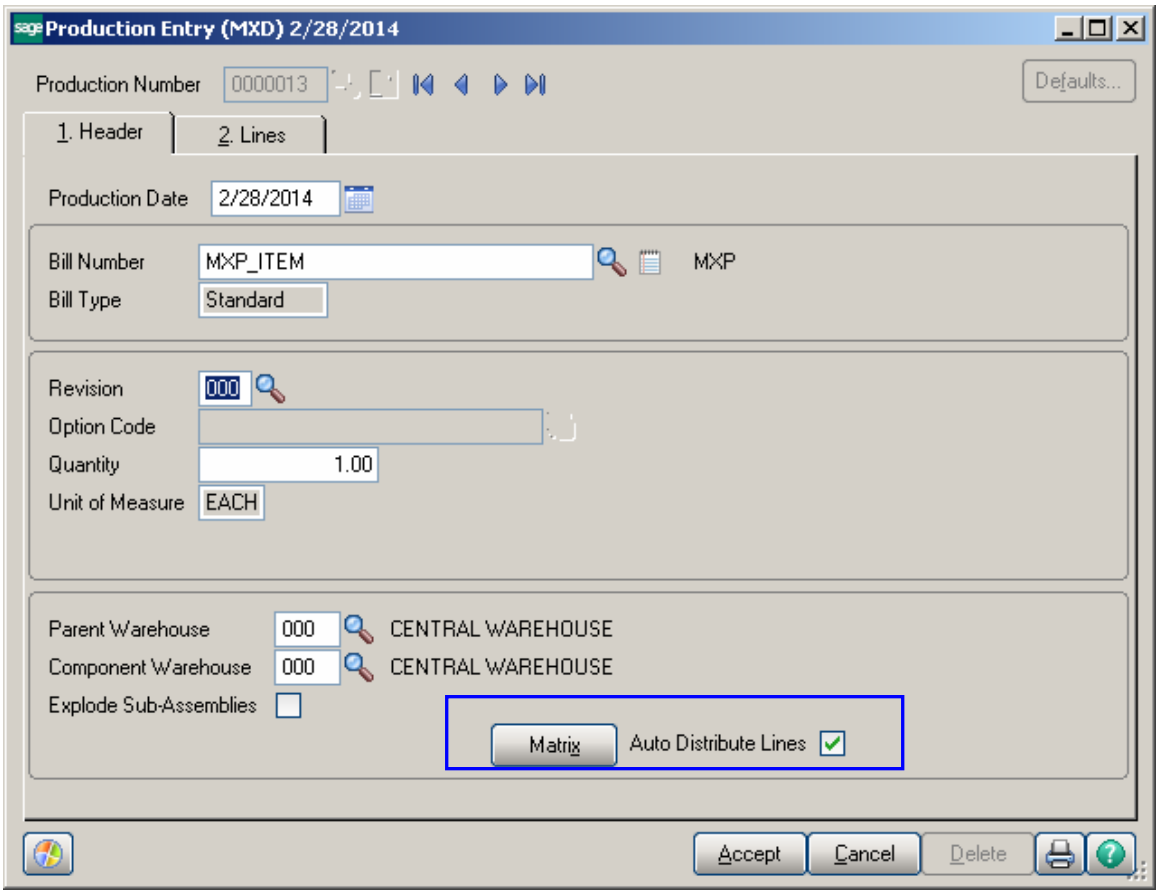
The Matrix Distribution screen for the **RMA Entry** programs is like the one in the **Invoice Data Entry** program.



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

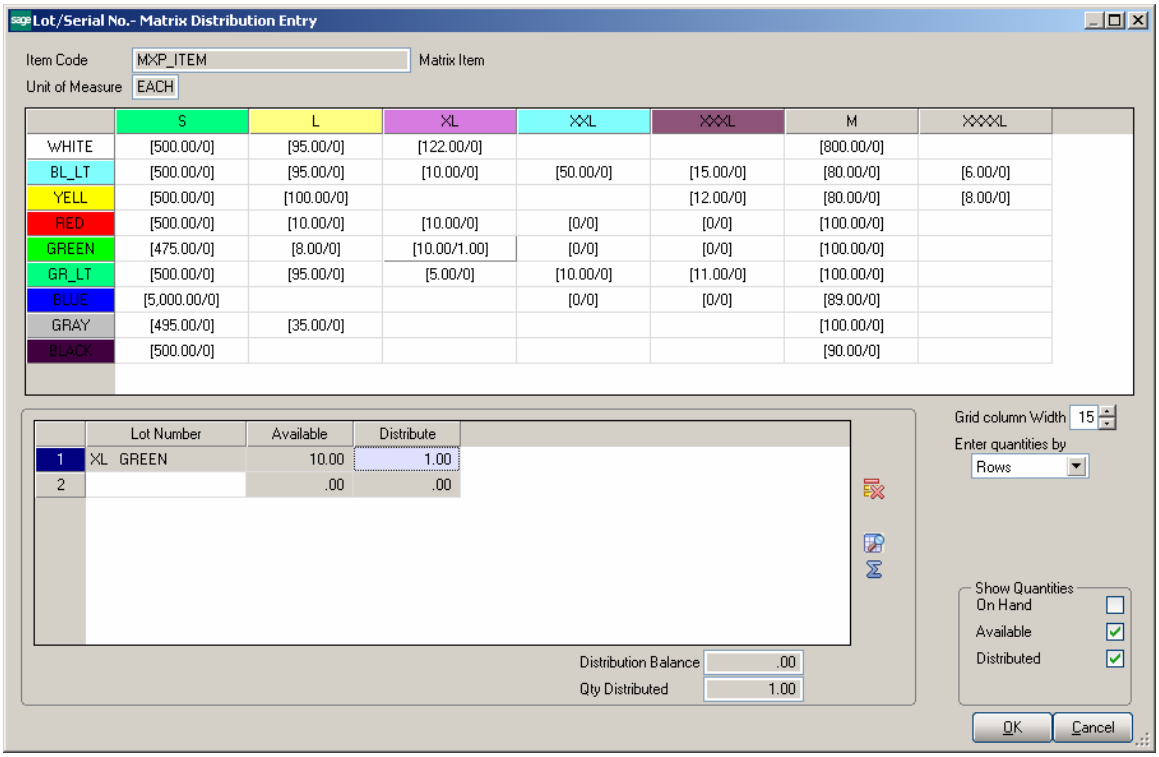
Production Entry

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



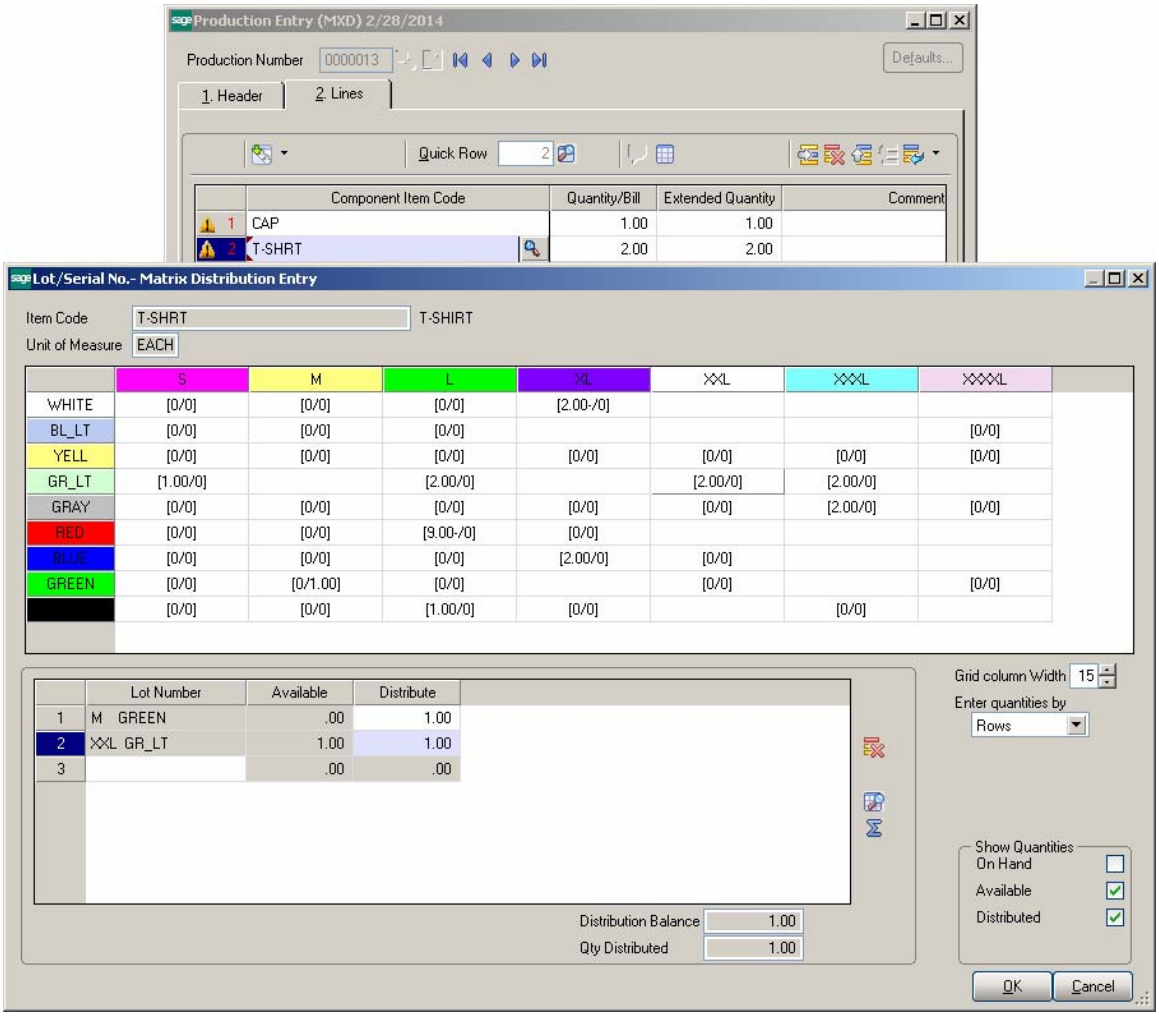
To distribute to **Lot Numbers** for Matrix Bill, click the **Matrix** button on the lines tab to open the **Matrix Distribution** screen. This button is not available for non-matrix component items.

The **Matrix** button allows for the selected Bill Number distribution:



The **Auto Distribute Lines** check box is available only if the **Auto Distribute Lines** is selected in the **Matrix Options**. Check the **Auto Distribute Lines** box 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**, to the maximum quantity available for distribution in the Lines Matrix items.

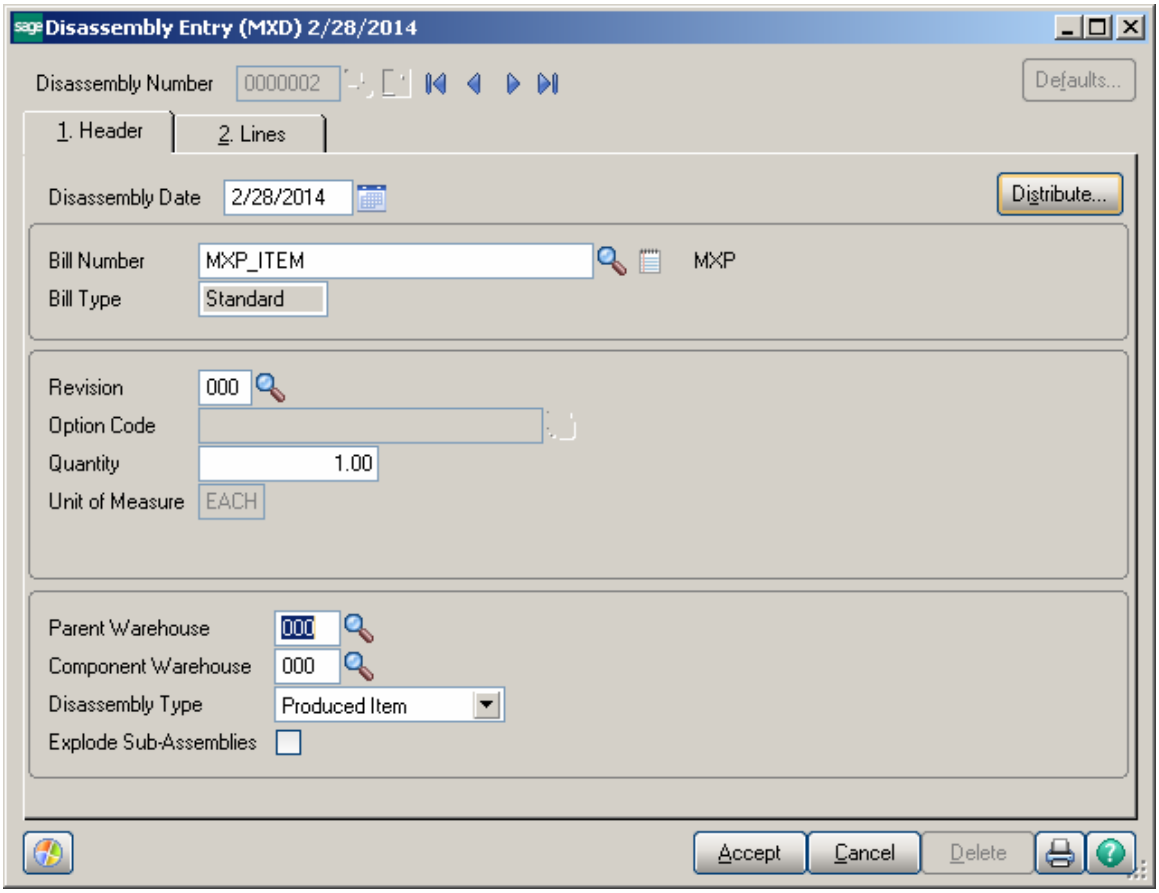


If a component in the **Lines** tab is a Matrix Item, the **Matrix Distribution** screen will be displayed for the line.

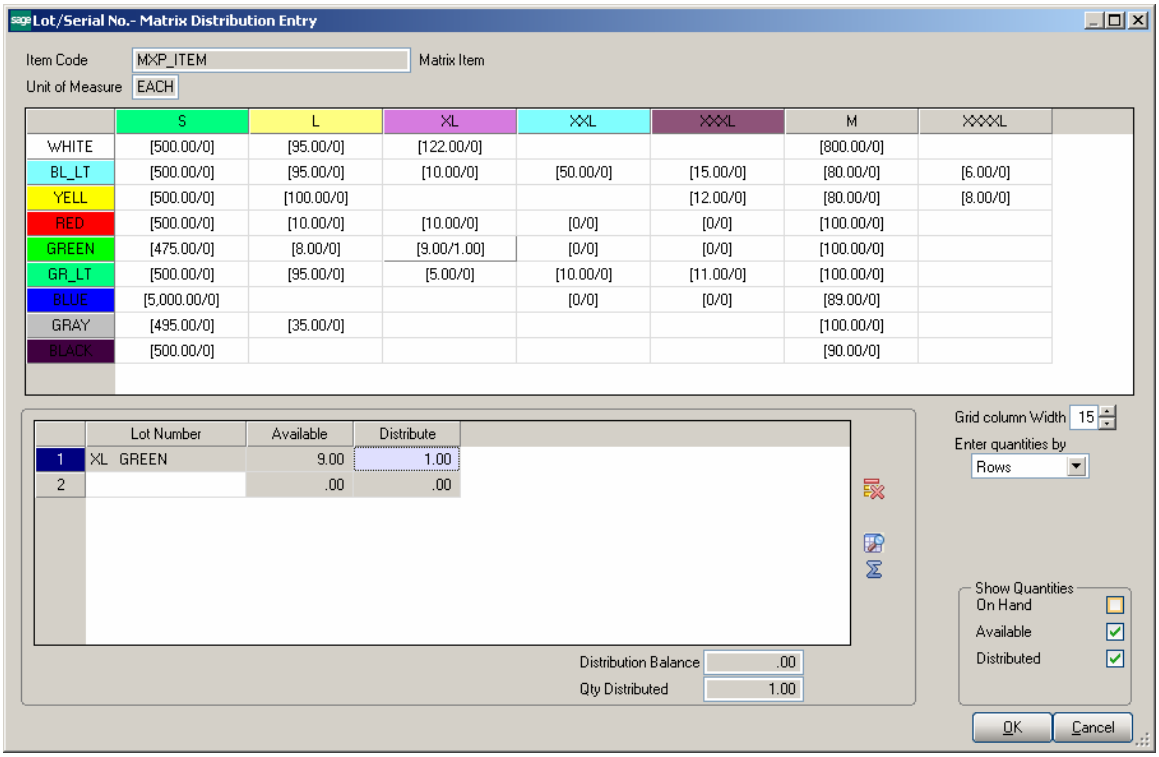
The Matrix Distribution screen for the **Production Entry** program is the same as in the **Sales Order Entry** program.

Disassembly Entry

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



The **Distribute** button opens the Matrix Distribution grid for the selected Bill Number.

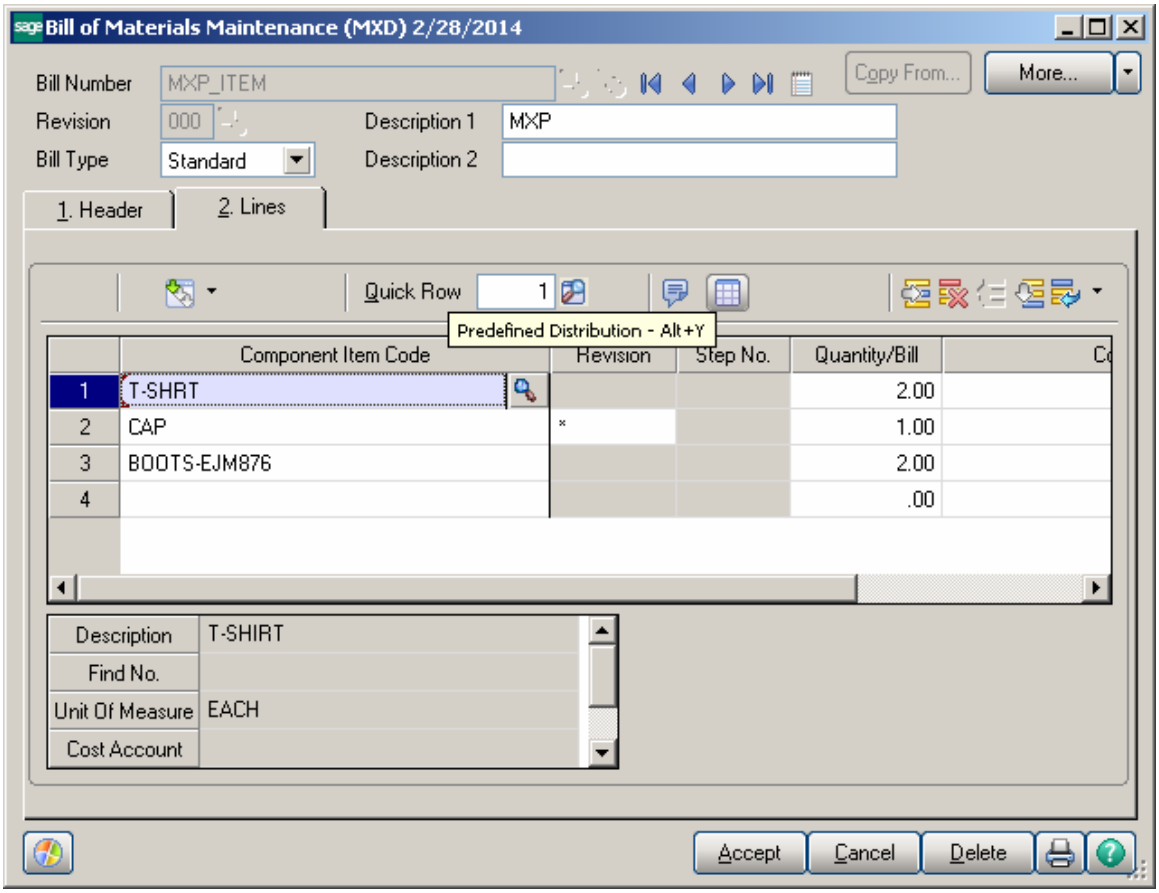


The Matrix Distribution screen for the **Disassembly Entry** program is the same as in the **Production Entry** program.

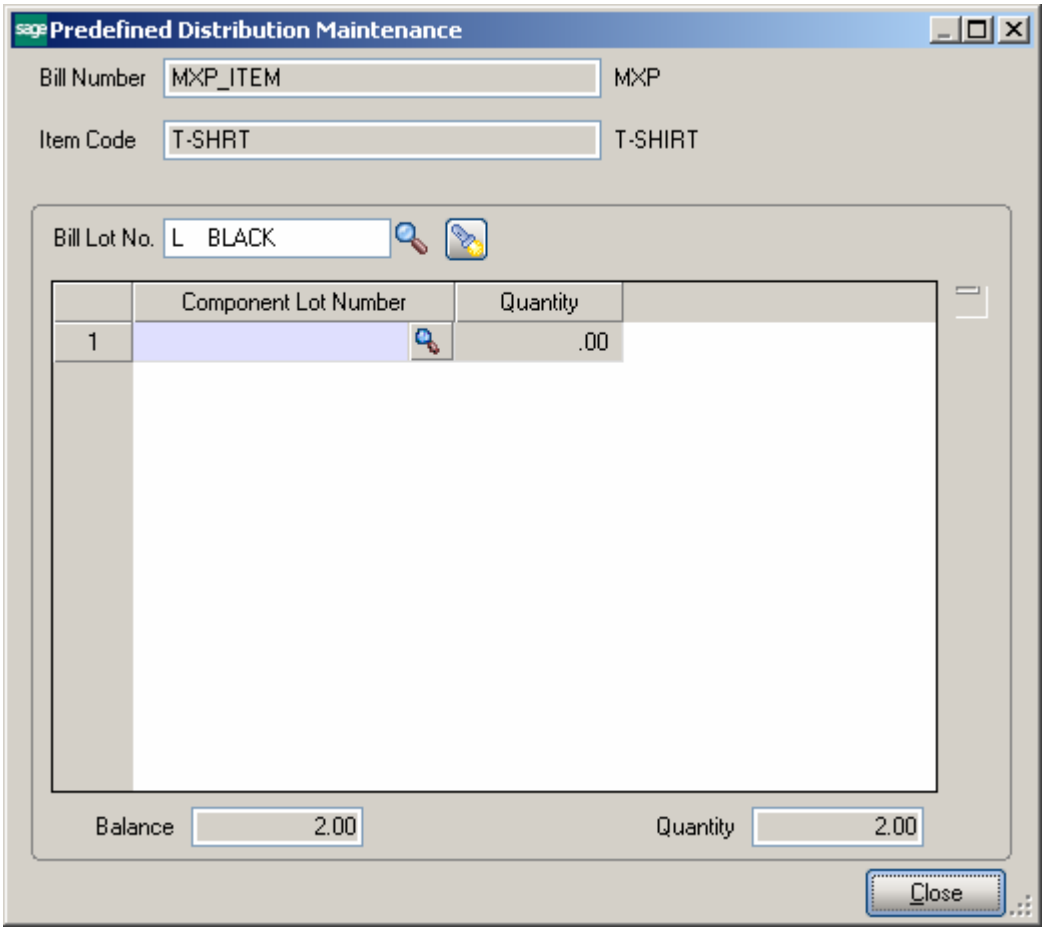
Predefined Distribution in Bills

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 for Standard Type Matrix Bill items.



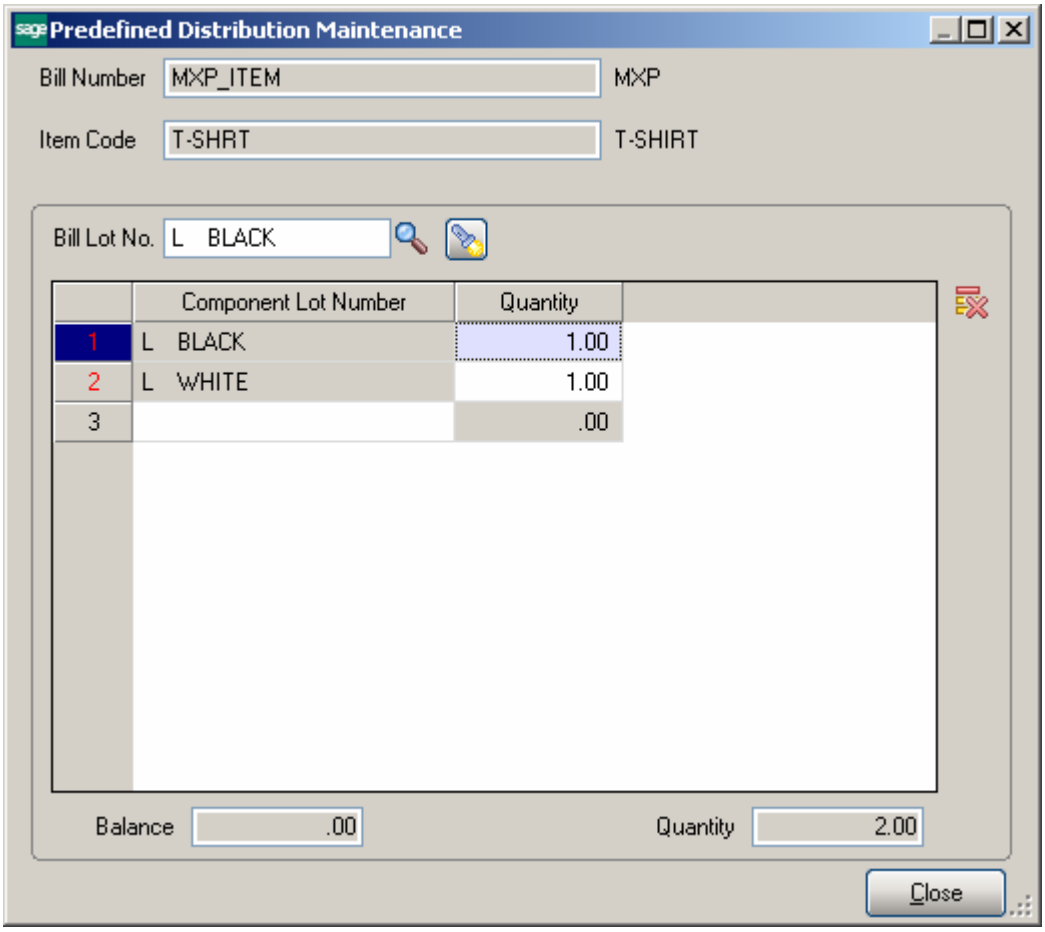
Clicking the **Predefined Distribution** button opens the **Predefined Distribution Maintenance** screen for the selected component.



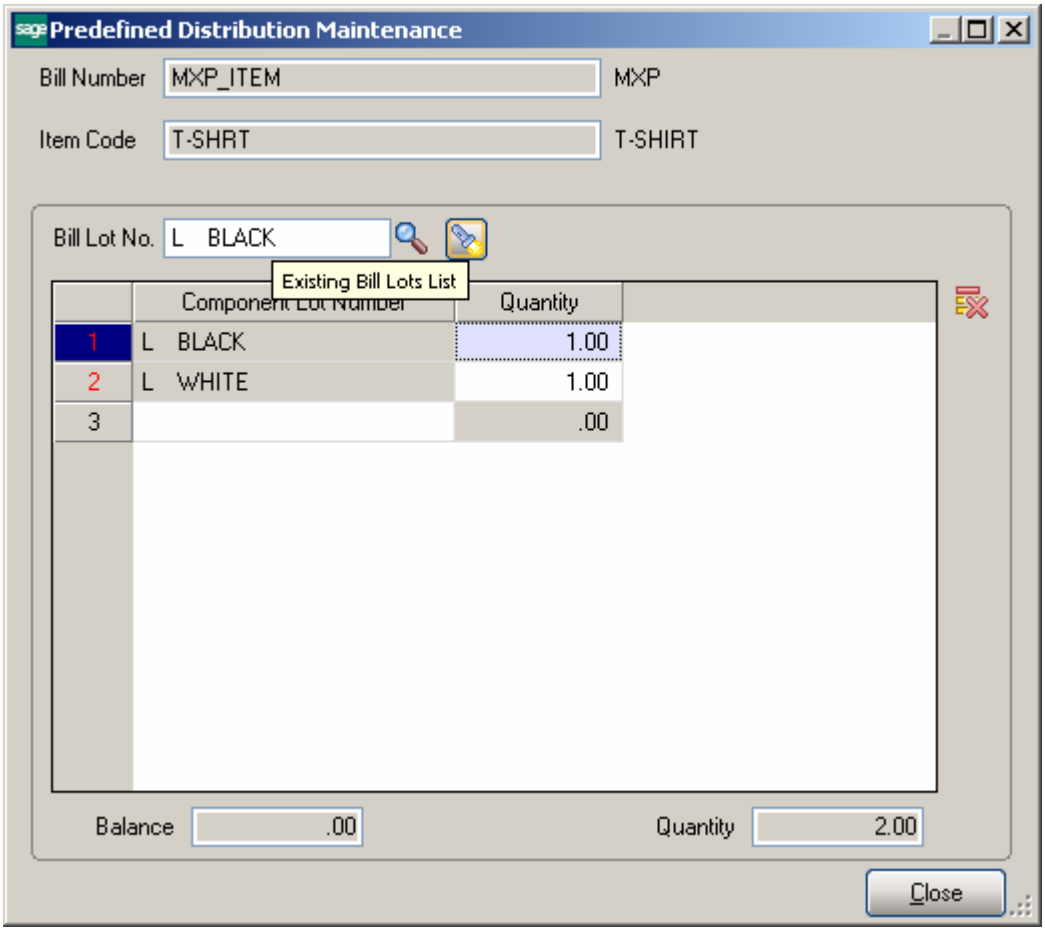
Select a **Bill Lot No.**, and distribute the **Quantity** displayed at the bottom of the screen to the **Component Lot Numbers**.

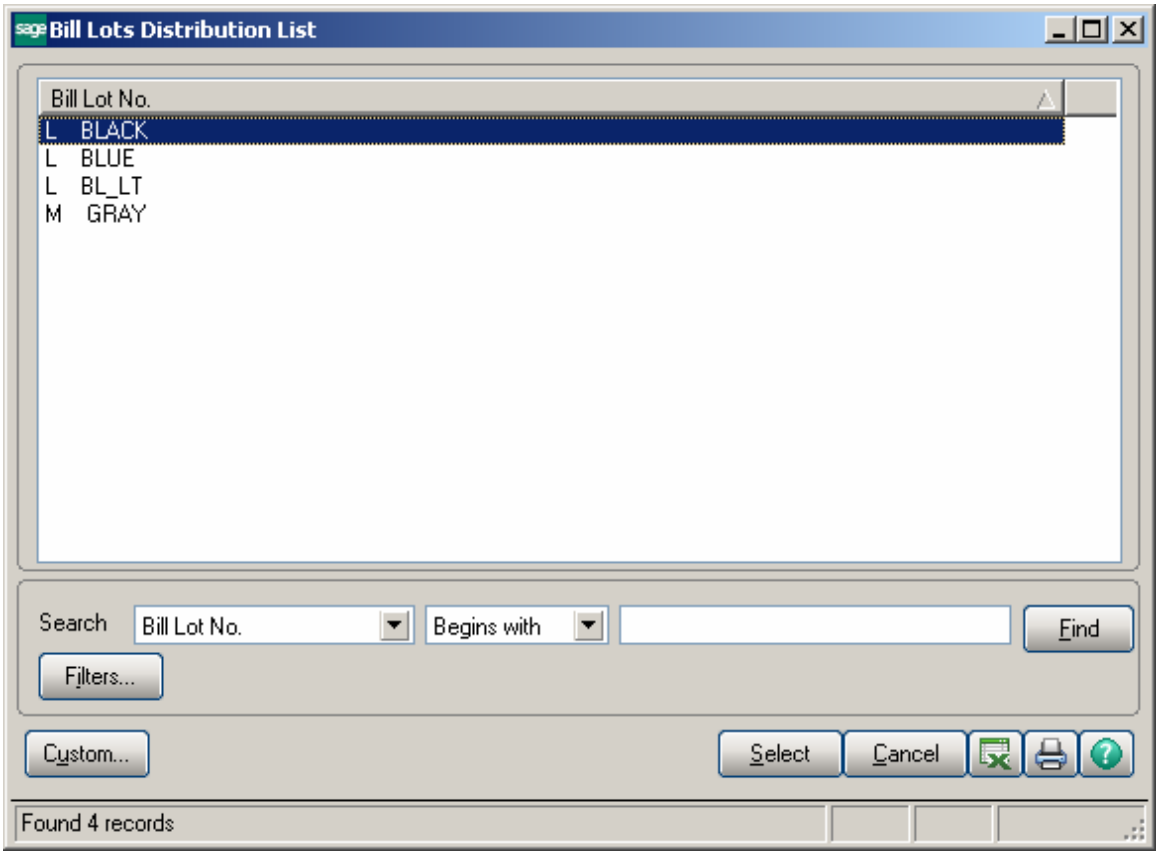
Distribution for the currently selected **Bill Lot Number** is displayed in the list.

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



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.

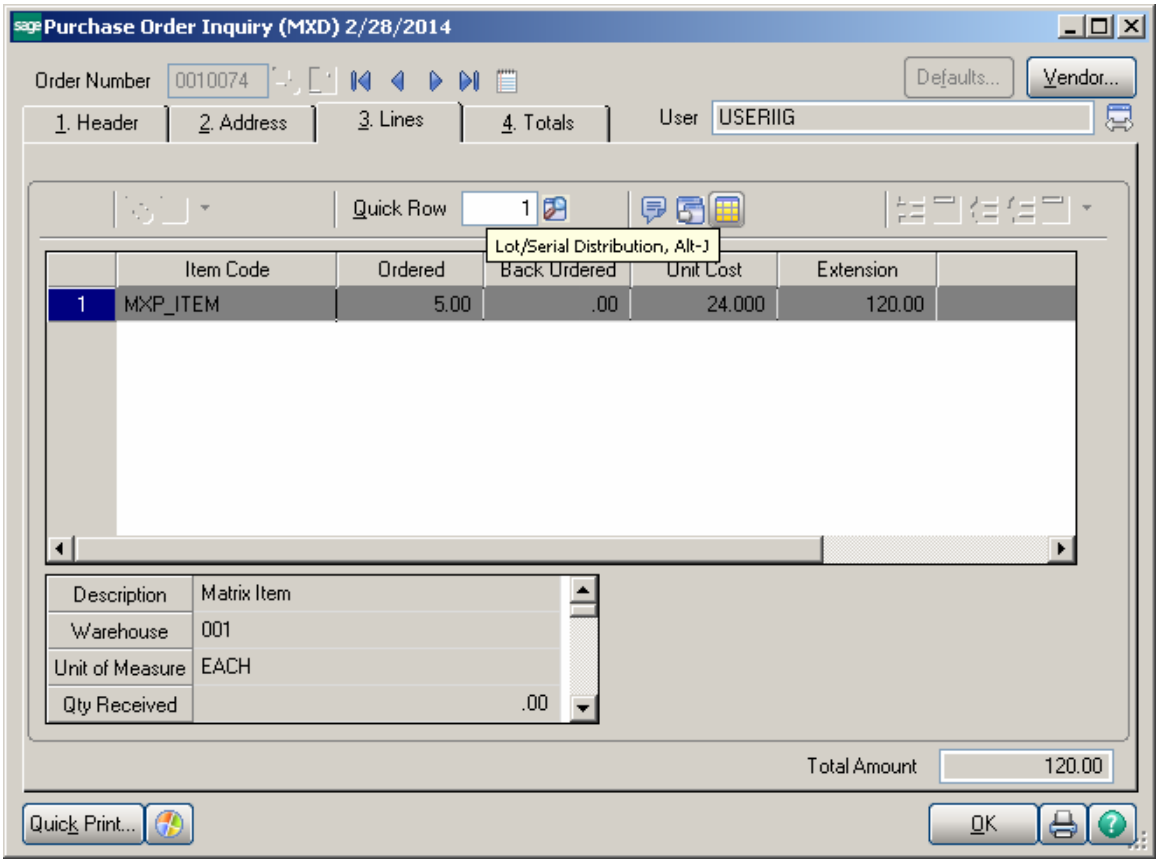

Predefined Distribution Maintenance
Bill Number
MXP_ITEM
MXP
Item Code
T-SHRT
T-SHIRT
Bill Lot No.
L BLACK
Existing Bill Lots List
Component Lot Number
Quantity
1
L BLACK
1.00
2
L WHITE
1.00
3
.00
Balance
.00
Quantity
2.00
Close

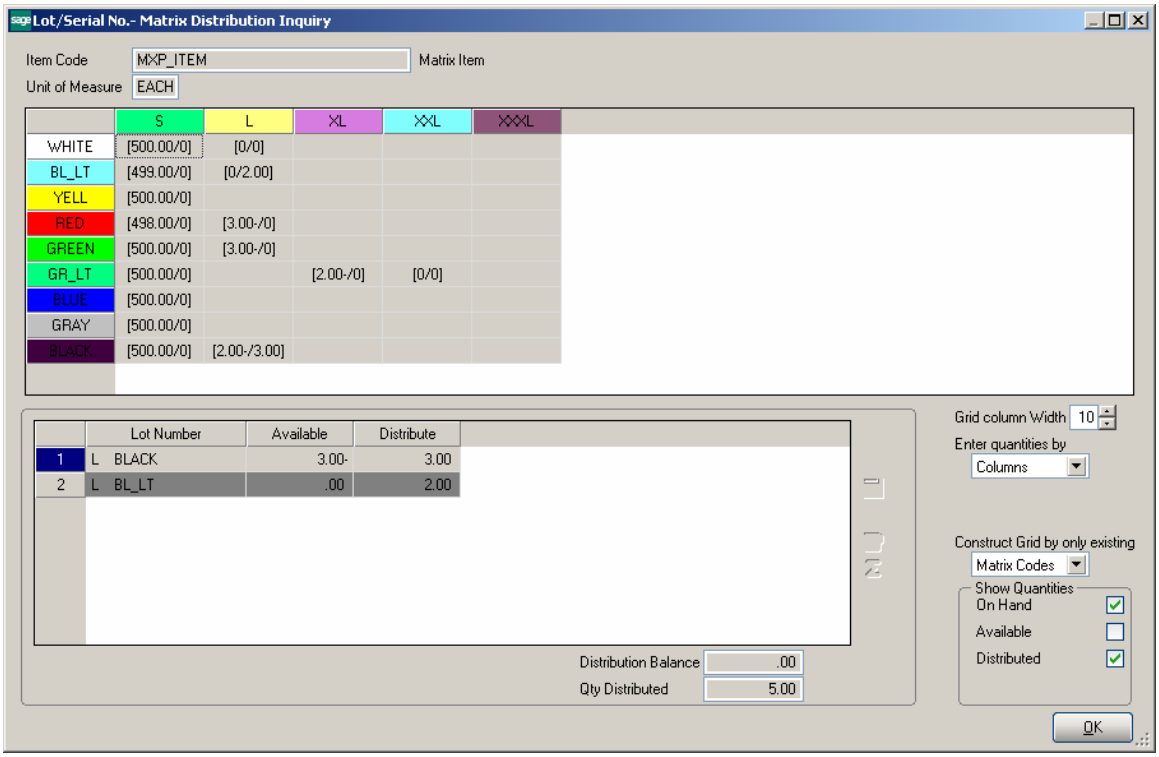

Bill Lots Distribution List
Bill Lot No.
L BLACK
L BLUE
L BL_LT
M GRAY
Search
Bill Lot No.
Begins with
Find
Filters...
Custom...
Select
Cancel
Found 4 records

Inquiries

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.





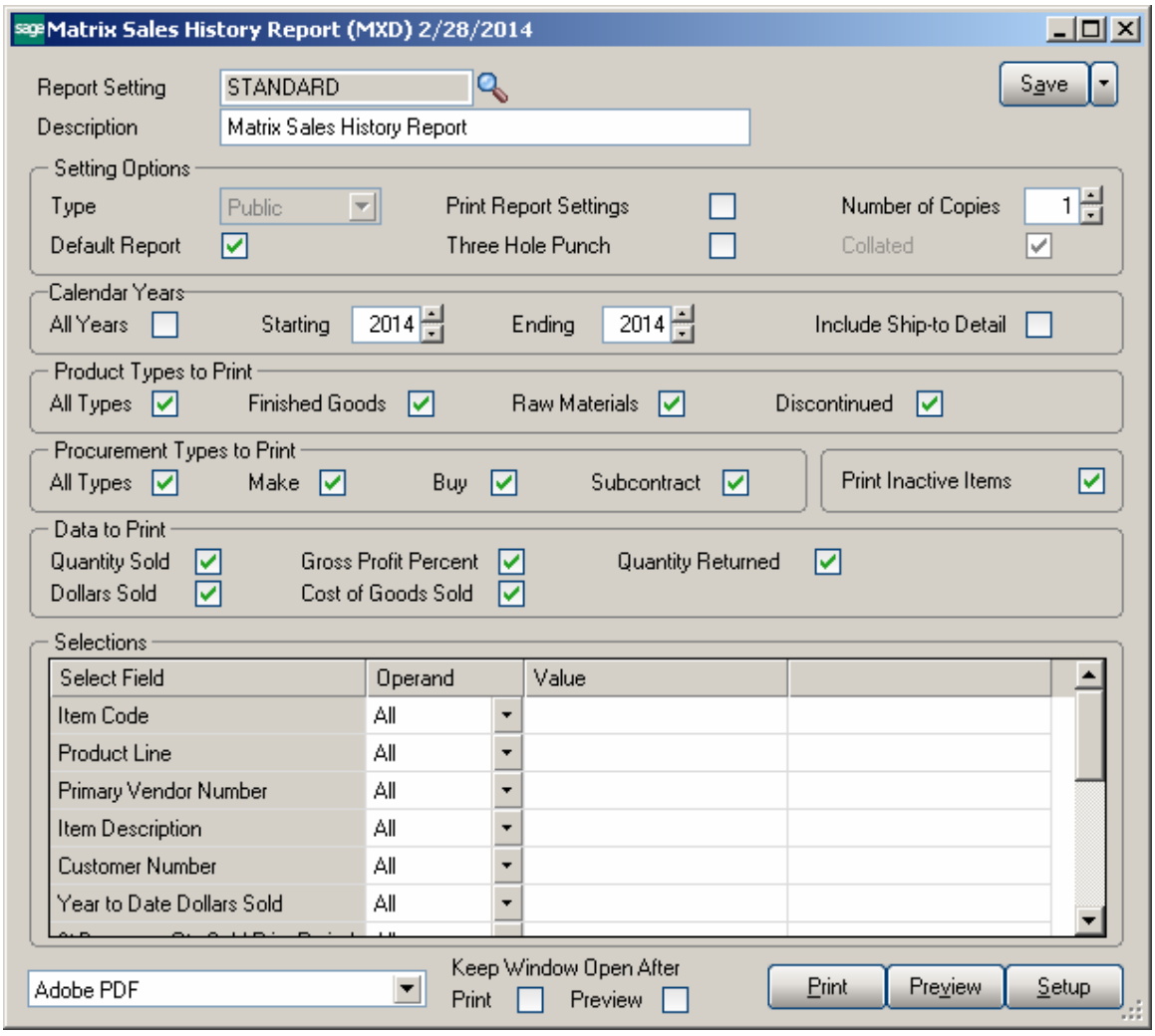
The **Lot/Serial No Matrix Distribution Inquiry** is accessible also from Sales Order Inquiry.

Printings

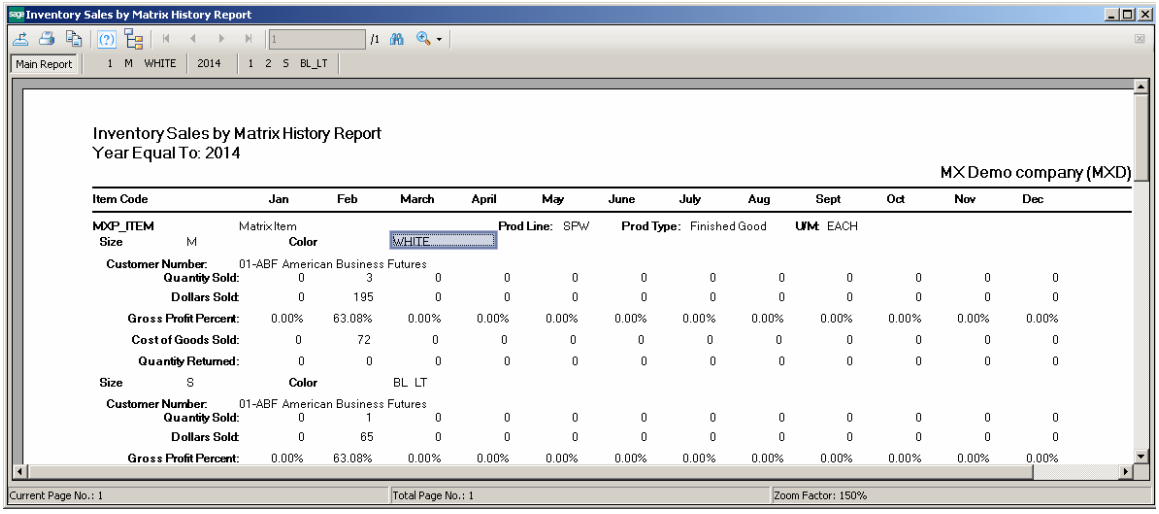
Matrix Sales History Report

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.



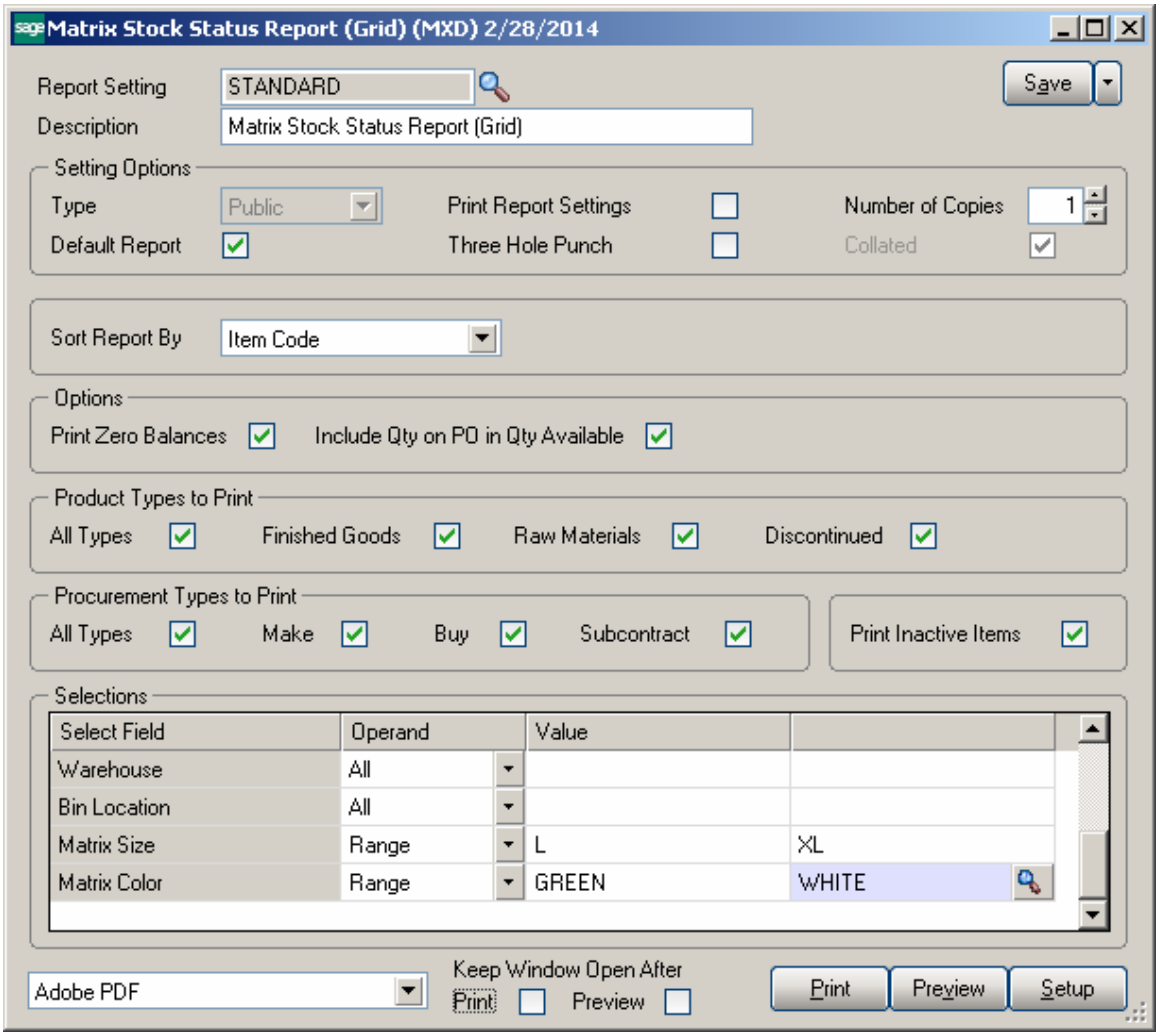
The selections are similar to the **Inventory Sales History Report**. In addition, Matrix Items can be filtered by two Categories specified in the Matrix Options program (Size and Color).


Inventory Sales by Matrix History Report
Main Report
1 M WHITE
2014
1 2 S BL_LT
Inventory Sales by Matrix History Report
Year Equal To: 2014
MX Demo company (MXD)
Item Code
Jan
Feb
March
April
May
June
July
Aug
Sept
Oct
Nov
Dec
MXP_ITEM
Matrix Item
Prod Line: SPW
Prod Type: Finished Good
U/M: EACH
Size M
Color
WHITE
Customer Number: 01-ABF American Business Futures
Quantity Sold: 0 3 0 0 0 0 0 0 0 0 0 0
Dollars Sold: 0 195 0 0 0 0 0 0 0 0 0 0
Gross Profit Percent: 0.00% 63.08% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%
Cost of Goods Sold: 0 72 0 0 0 0 0 0 0 0 0 0
Quantity Returned: 0 0 0 0 0 0 0 0 0 0 0 0
Size S
Color BL LT
Customer Number: 01-ABF American Business Futures
Quantity Sold: 0 1 0 0 0 0 0 0 0 0 0 0
Dollars Sold: 0 65 0 0 0 0 0 0 0 0 0 0
Gross Profit Percent: 0.00% 63.08% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%
Current Page No.: 1
Total Page No.: 1
Zoom Factor: 150%

Matrix Stock Status Report

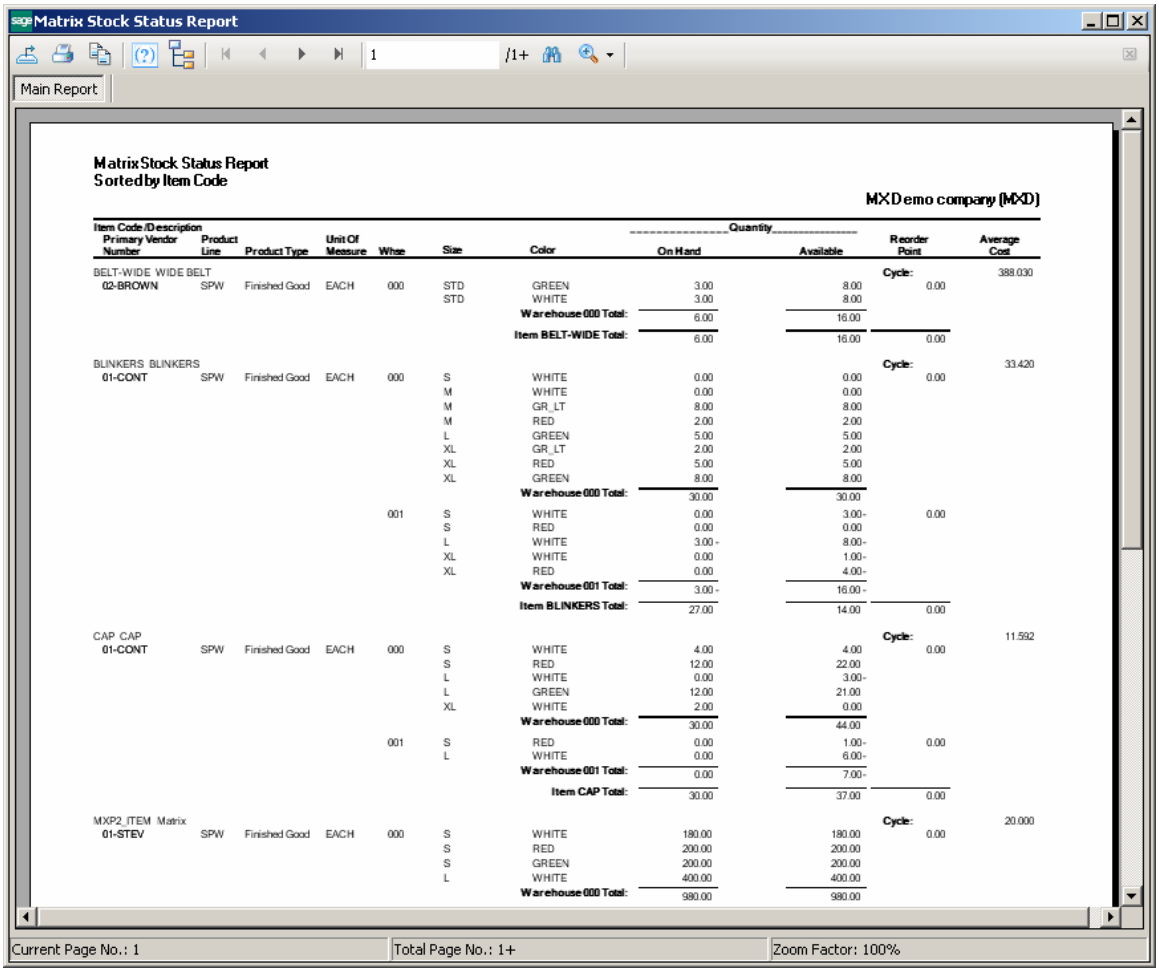
Select the **Matrix Stock Status Report** program under the **Inventory Management Reports** menu.

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



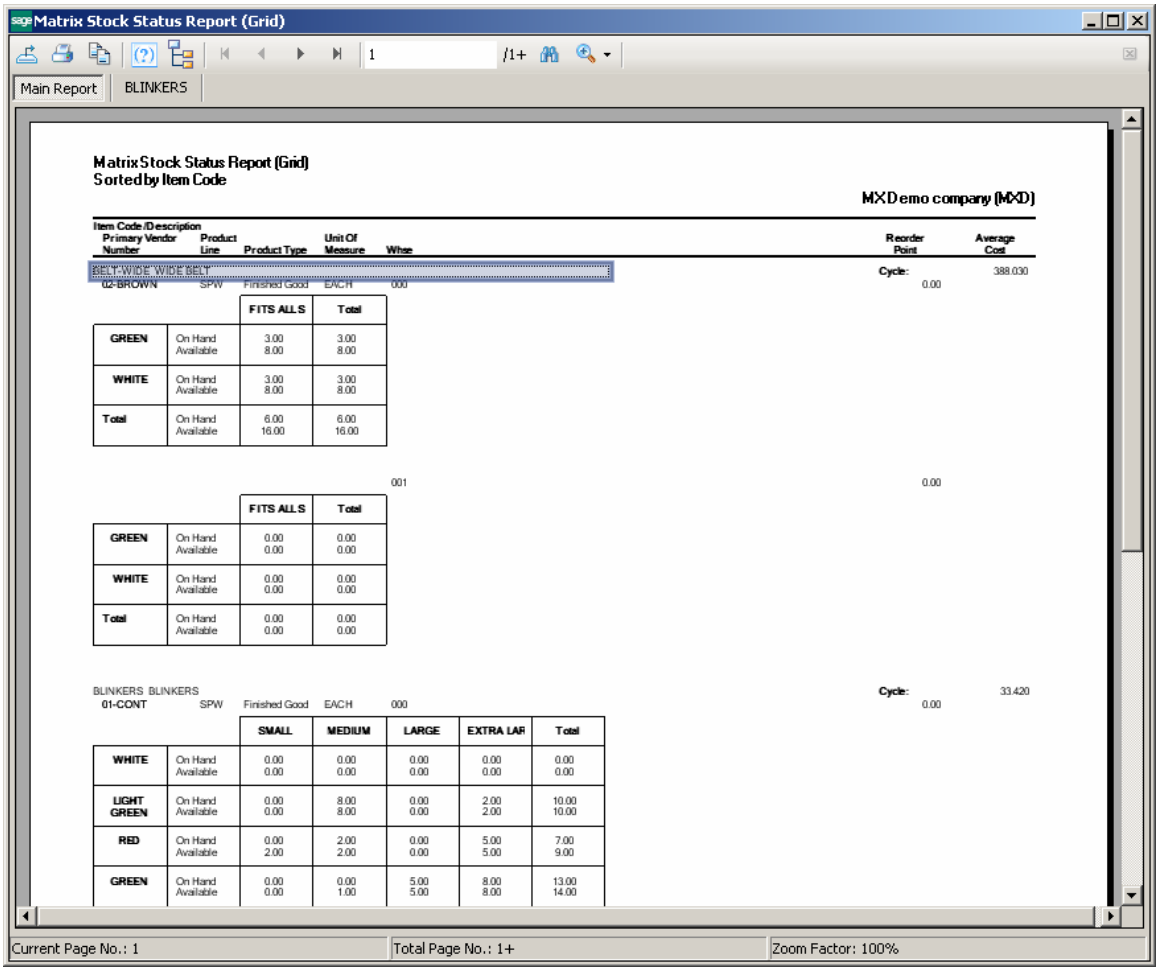
The selections are similar to the **Inventory Stock Status Report**. In addition, Matrix Items can be filtered by two Categories specified in the Matrix Options program (Size and Color).
The Include Qty on PO in Qty Available option is turned on by default to include the quantity on PO in the Quantity available calculation for Matrix lot.

Only Lot Numbers existing for an Item are printed in the report. Checking the Print Lot Numbers with Zero Qty box allows printing Lot Numbers with no quantity available.
Here is an example of the printout:



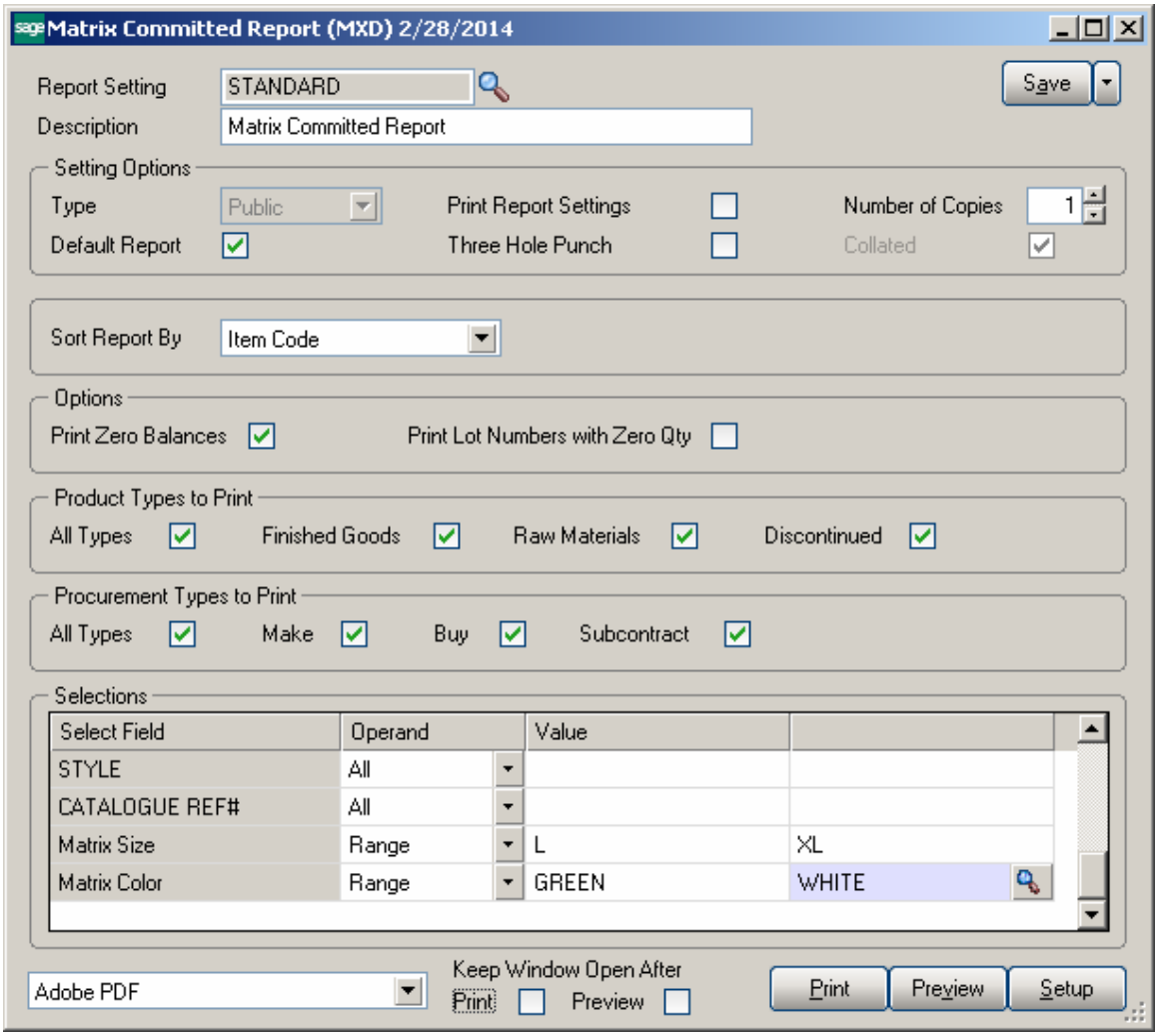
Matrix Stock Status Report (Grid)

Select the **Matrix Stock Status Report (Grid)** if you want the information to be printed by a grid:


Matrix Stock Status Report (Grid)
Main Report
BLINKERS
Matrix Stock Status Report (Grid)
Sorted by Item Code
MXDemo company (MXD)
Item Code/Description
Primary Vendor Number
Product Line
Product Type
Unit Of Measure
Whse
Reorder Point
Average Cost
BELT,WIDE WIDE BELT
02-BROWN SPW Finished Good EACH 000
Cycle: 0.00 388.030
FITS ALL S Total
GREEN On Hand 3.00 3.00
Available 8.00 8.00
WHITE On Hand 3.00 3.00
Available 8.00 8.00
Total On Hand 6.00 6.00
Available 16.00 16.00
001 0.00
FITS ALL S Total
GREEN On Hand 0.00 0.00
Available 0.00 0.00
WHITE On Hand 0.00 0.00
Available 0.00 0.00
Total On Hand 0.00 0.00
Available 0.00 0.00
BLINKERS BLINKERS
01-CONT SPW Finished Good EACH 000
Cycle: 0.00 33.420
SMALL MEDIUM LARGE EXTRA LAR Total
WHITE On Hand 0.00 0.00 0.00 0.00 0.00
Available 0.00 0.00 0.00 0.00 0.00
LIGHT GREEN On Hand 0.00 8.00 0.00 2.00 10.00
Available 0.00 8.00 0.00 2.00 10.00
RED On Hand 0.00 2.00 0.00 5.00 7.00
Available 2.00 2.00 0.00 5.00 9.00
GREEN On Hand 0.00 0.00 5.00 8.00 13.00
Available 0.00 1.00 5.00 8.00 14.00
Current Page No.: 1
Total Page No.: 1+
Zoom Factor: 100%

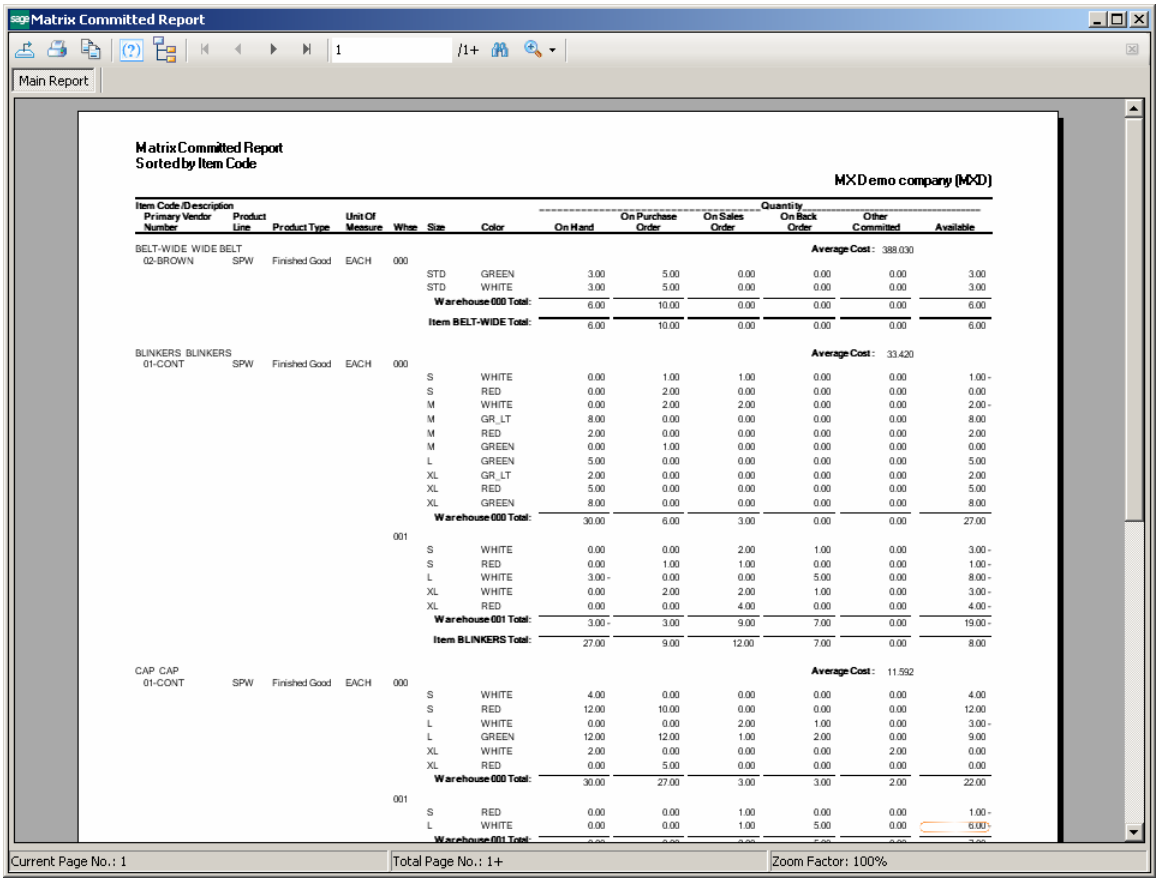
Matrix Committed Report

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



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

Here is an example of the printout:



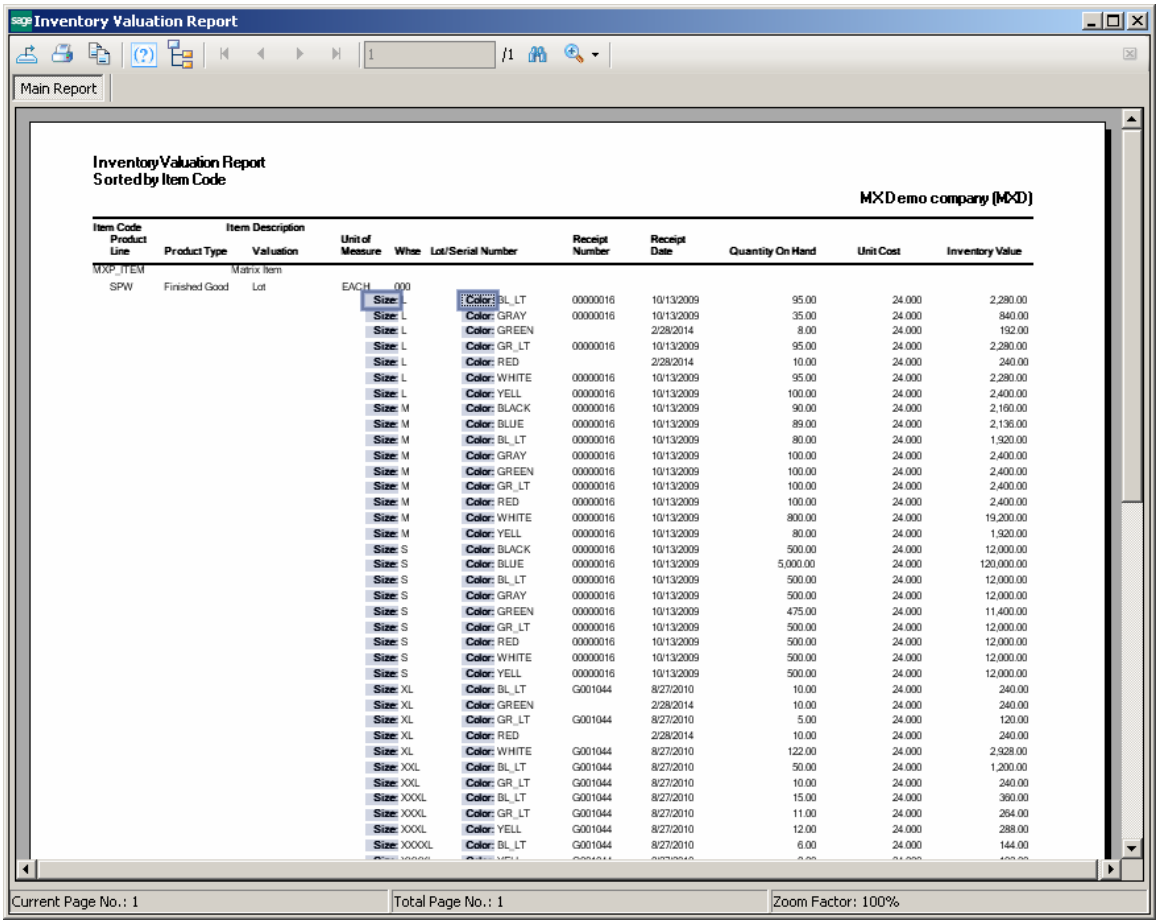
The quantity **Available** printed on the report is calculated as follows: "**Qty On Hand + Qty On Purchase Order – Qty On Sales Order**" if the Include in Quantity Available option is set to "**Purchase Orders"** or **"POs and WOs"**, otherwise it is calculated as **"Qty On Hand– Qty On Sales Order"**.

Note: The quantities committed on WO, IM Transactions and B/M Entries are not taken into account during Available quantity calculation.

Inventory Valuation Report

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

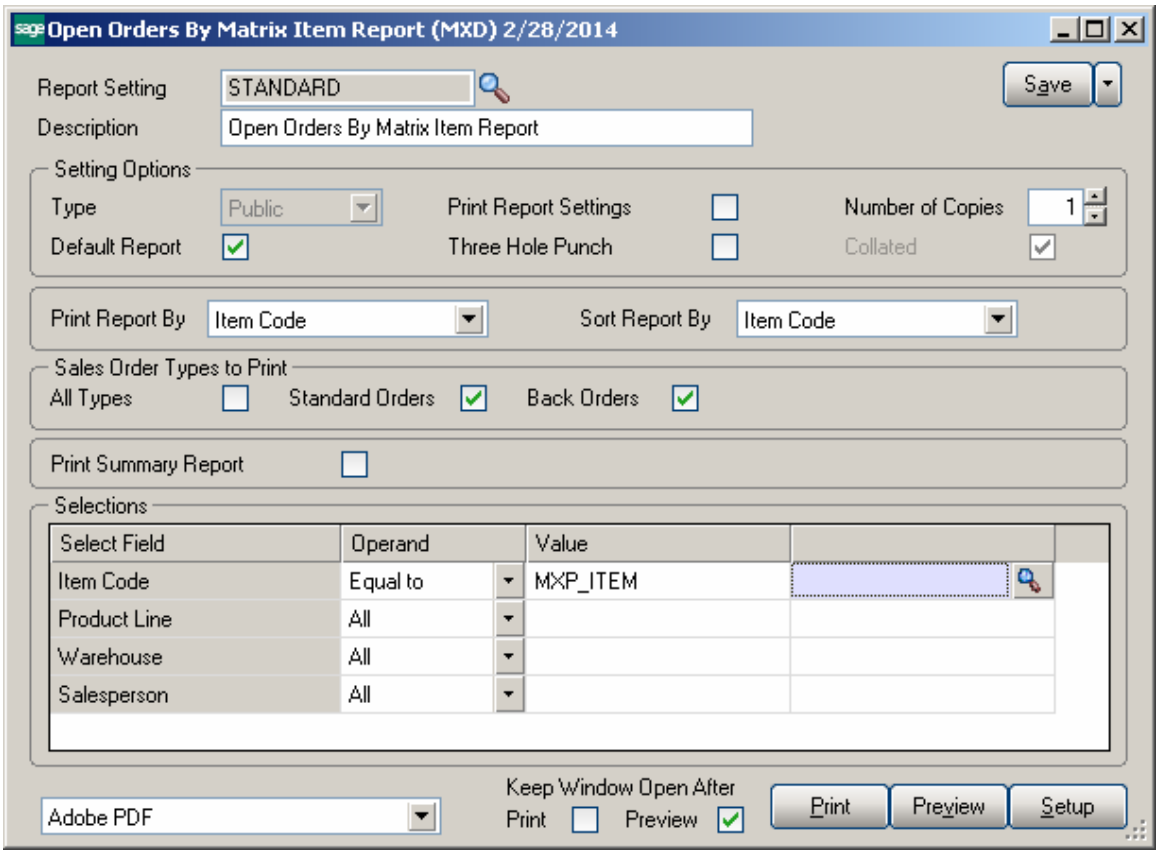
The report has been modified to display Lot Numbers for Matrix Items as a pair of Matrix Codes with their Category Descriptions.



Item Code / Product Line	Item Description / Product Type	Valuation	Unit of Measure	Whse	Lot/Serial Number	Receipt Number	Receipt Date	Quantity On Hand	Unit Cost	Inventory Value
MXP_ITEM	Matrix Item									
SPW	Finished Good	Lot	EACH	000						
					Size: L Color: BL_LT	00000016	10/13/2009	95.00	24.000	2,280.00
					Size: L Color: GRAY	00000016	10/13/2009	35.00	24.000	840.00
					Size: L Color: GREEN		2/28/2014	8.00	24.000	192.00
					Size: L Color: GR_LT	00000016	10/13/2009	95.00	24.000	2,280.00
					Size: L Color: RED		2/28/2014	10.00	24.000	240.00
					Size: L Color: WHITE	00000016	10/13/2009	95.00	24.000	2,280.00
					Size: L Color: YELL	00000016	10/13/2009	100.00	24.000	2,400.00
					Size: M Color: BLACK	00000016	10/13/2009	90.00	24.000	2,160.00
					Size: M Color: BLUE	00000016	10/13/2009	89.00	24.000	2,136.00
					Size: M Color: BL_LT	00000016	10/13/2009	80.00	24.000	1,920.00
					Size: M Color: GRAY	00000016	10/13/2009	100.00	24.000	2,400.00
					Size: M Color: GREEN	00000016	10/13/2009	100.00	24.000	2,400.00
					Size: M Color: GR_LT	00000016	10/13/2009	100.00	24.000	2,400.00
					Size: M Color: RED	00000016	10/13/2009	100.00	24.000	2,400.00
					Size: M Color: WHITE	00000016	10/13/2009	800.00	24.000	19,200.00
					Size: M Color: YELL	00000016	10/13/2009	80.00	24.000	1,920.00
					Size: S Color: BLACK	00000016	10/13/2009	500.00	24.000	12,000.00
					Size: S Color: BLUE	00000016	10/13/2009	5,000.00	24.000	120,000.00
					Size: S Color: BL_LT	00000016	10/13/2009	500.00	24.000	12,000.00
					Size: S Color: GRAY	00000016	10/13/2009	500.00	24.000	12,000.00
					Size: S Color: GREEN	00000016	10/13/2009	475.00	24.000	11,400.00
					Size: S Color: GR_LT	00000016	10/13/2009	500.00	24.000	12,000.00
					Size: S Color: RED	00000016	10/13/2009	500.00	24.000	12,000.00
					Size: S Color: WHITE	00000016	10/13/2009	500.00	24.000	12,000.00
					Size: S Color: YELL	00000016	10/13/2009	500.00	24.000	12,000.00
					Size: XL Color: BL_LT	G001044	8/27/2010	10.00	24.000	240.00
					Size: XL Color: GREEN		2/28/2014	10.00	24.000	240.00
					Size: XL Color: GR_LT	G001044	8/27/2010	5.00	24.000	120.00
					Size: XL Color: RED		2/28/2014	10.00	24.000	240.00
					Size: XL Color: WHITE	G001044	8/27/2010	122.00	24.000	2,928.00
					Size: XXL Color: BL_LT	G001044	8/27/2010	50.00	24.000	1,200.00
					Size: XXL Color: GR_LT	G001044	8/27/2010	10.00	24.000	240.00
					Size: XXXL Color: BL_LT	G001044	8/27/2010	15.00	24.000	360.00
					Size: XXXL Color: GR_LT	G001044	8/27/2010	11.00	24.000	264.00
					Size: XXXL Color: YELL	G001044	8/27/2010	12.00	24.000	288.00
					Size: XXXXL Color: BL_LT	G001044	8/27/2010	6.00	24.000	144.00

Open Orders by Matrix Item Report

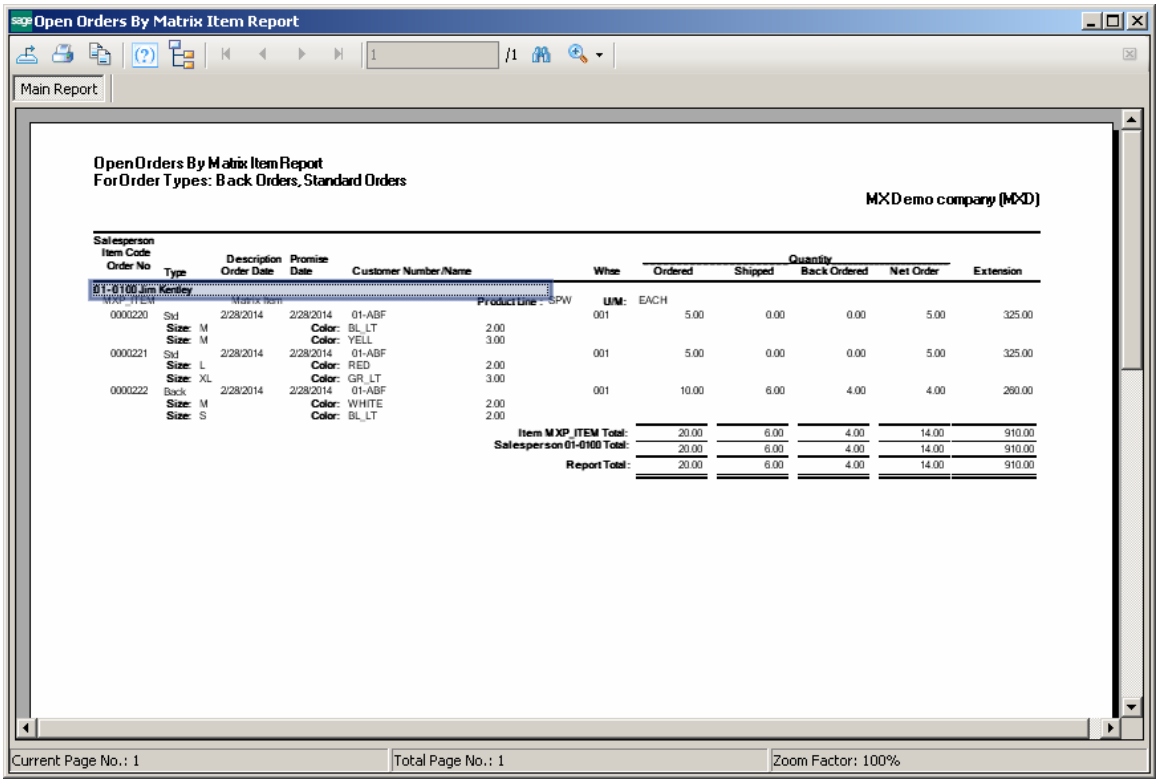
The **Open Orders by Matrix Item Report** provides open sales orders information for Matrix Items' Lots. Select the **Open Orders by Matrix Item Report** program under the **Sales Order Reports** menu.



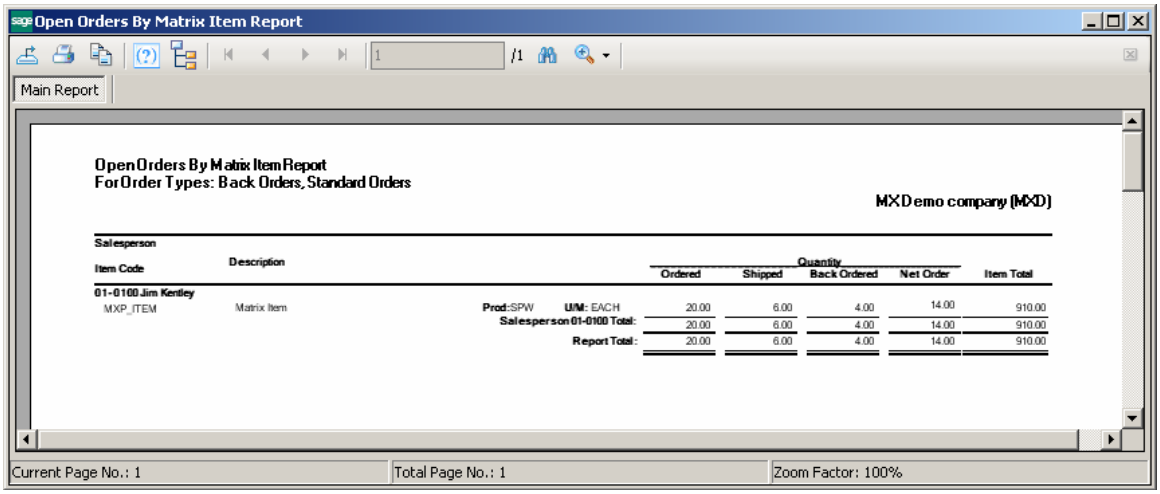
Print Report By and **Sort Report by** options allow for printing of open orders for each Salesperson by Items or for each Item by Salespersons.

Selections by Item Code, Product Line, Warehouse and salesperson are available.

Here is an example of a report printed by Salesperson and sorted by Item Code:

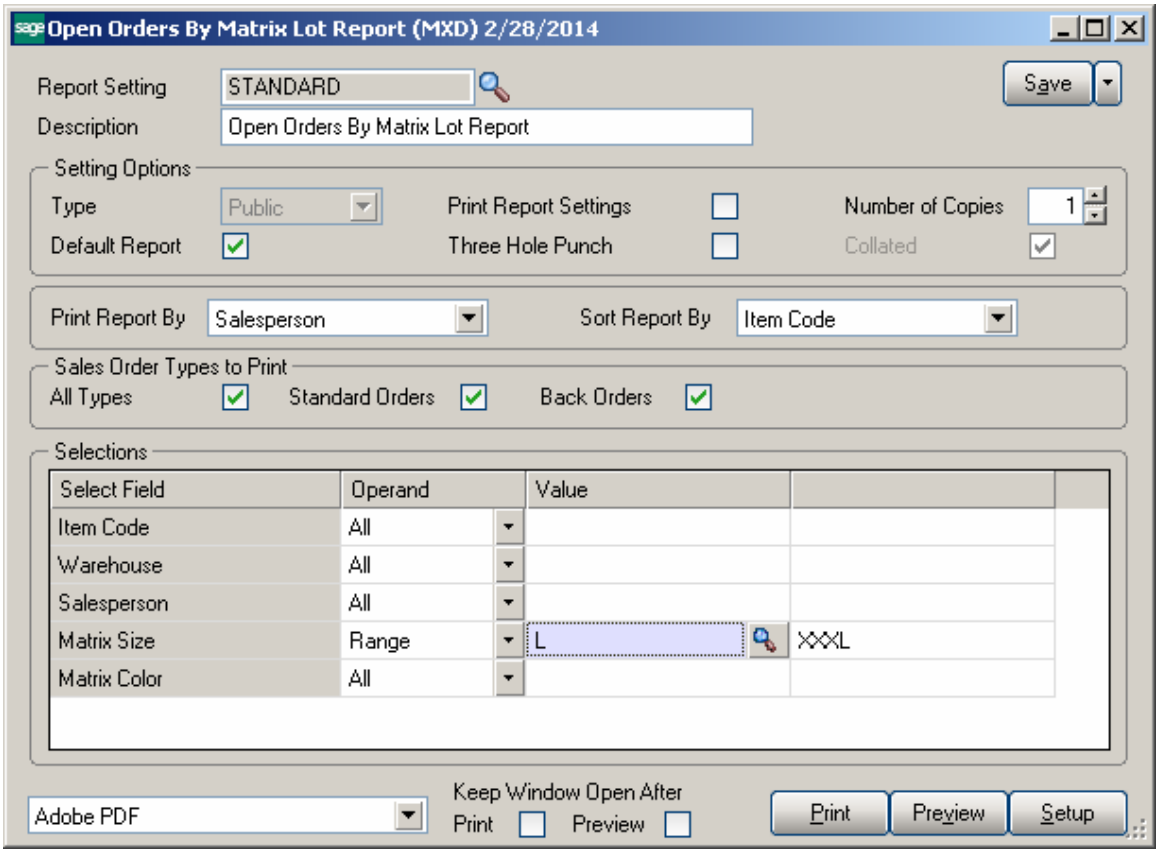


Here is an example of the summary report printout:



Open Orders by Matrix Lot Report

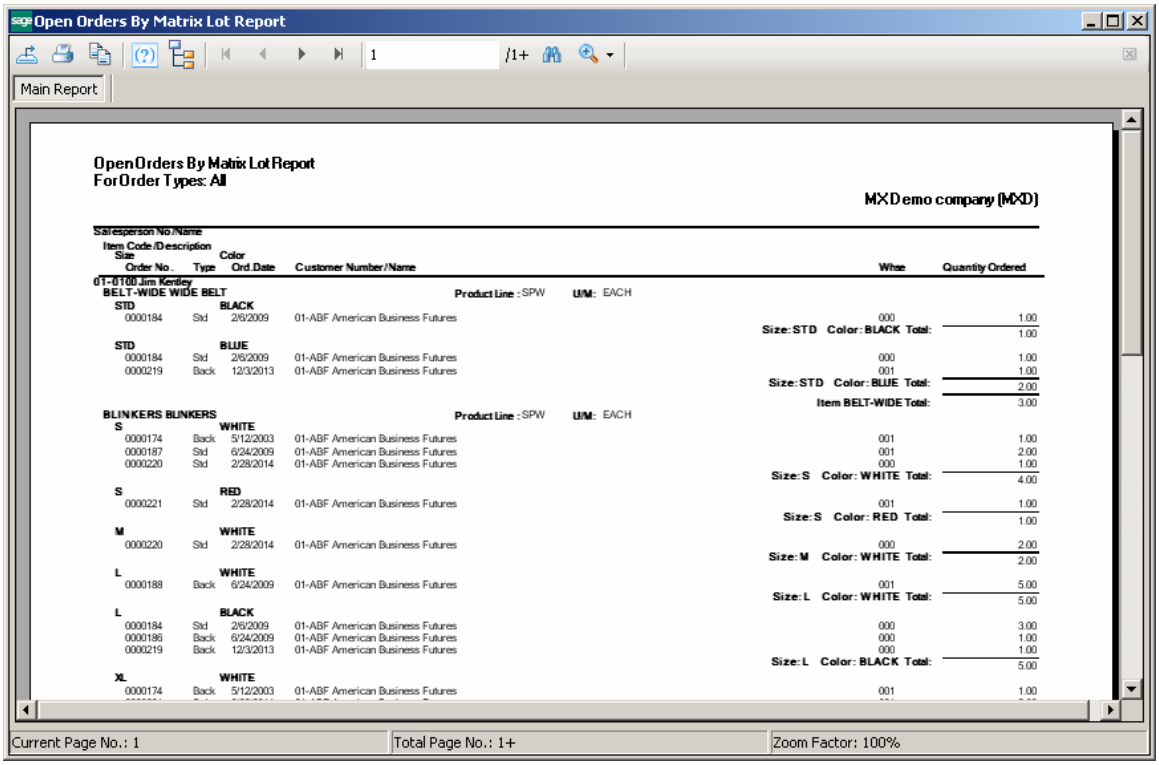
The **Open Orders by Matrix Lot Report** program has been added to the **Sales Order Reports** menu to allow printing open sales orders by Matrix Size and Matrix Color to make easy tracking of outstanding orders for each Matrix Lot.
By default the report is sorted by item code. It can be sorted also by the Salesperson.
There is an option to include Standard Orders, Back Orders or both types (All).



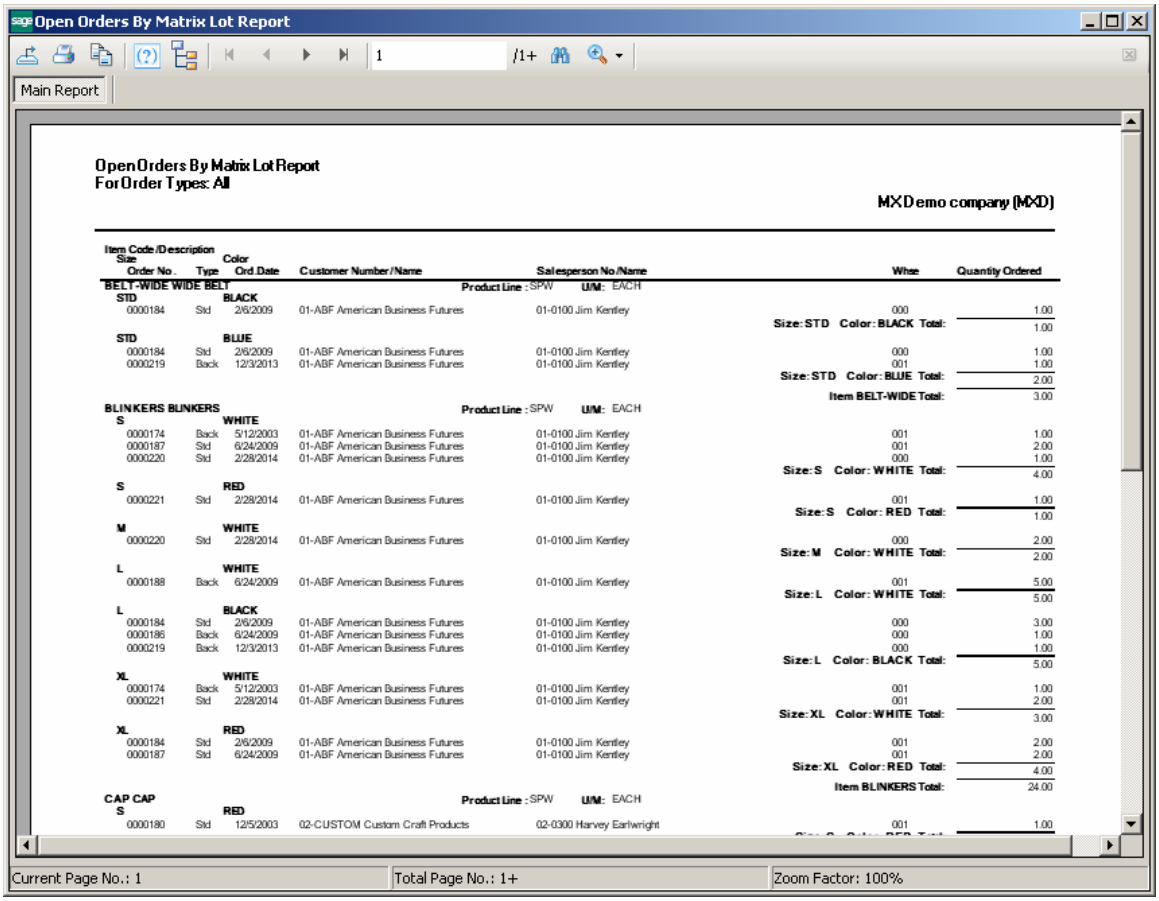
Selection of Item Code, Product Line, Warehouse, Salesperson, Matrix Size and Matrix Color may be applied to the report.

Print Report By and **Sort Report by** options allow for printing of open orders for each Salesperson sorted by Items or for each Item sorted by Salespersons.

Here is an example of a report printed by Salesperson sorted by Item Code

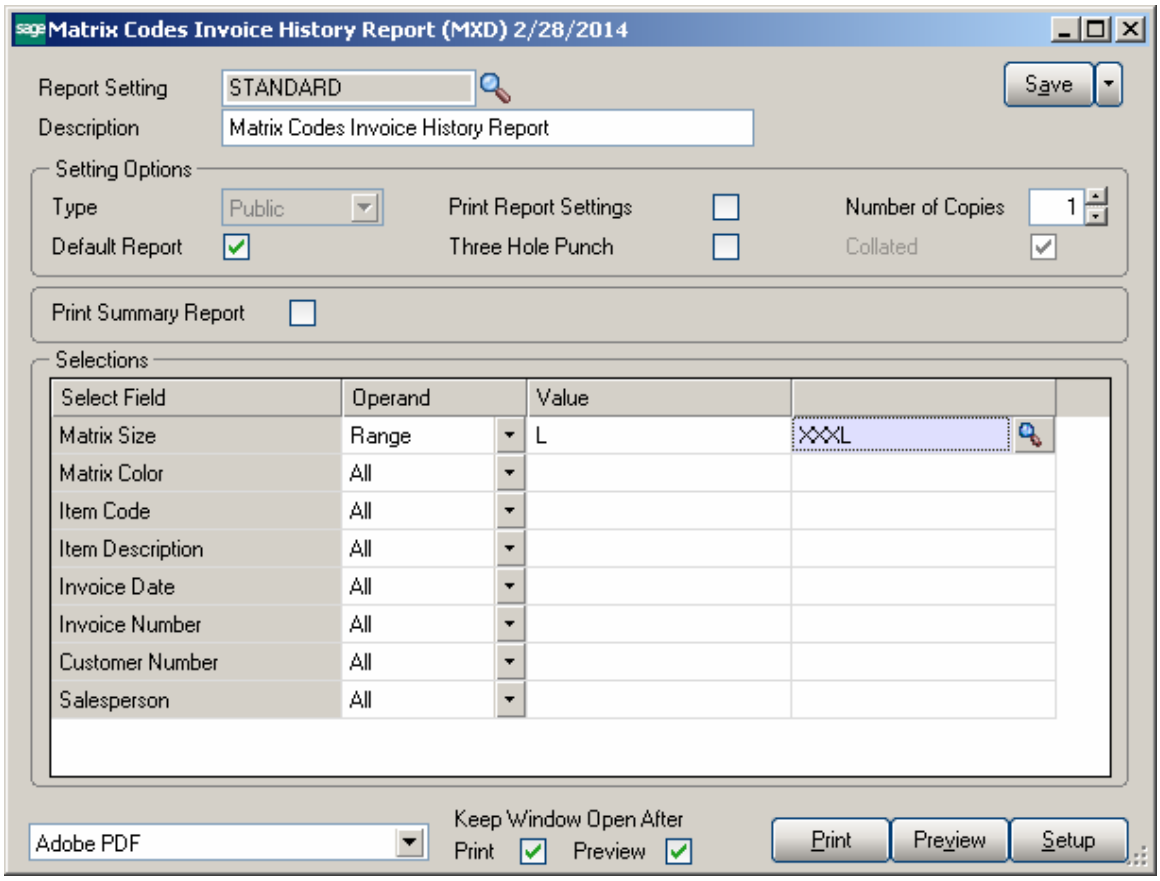


Here is an example of the report printed by Item Code and Sorted by Salesperson.

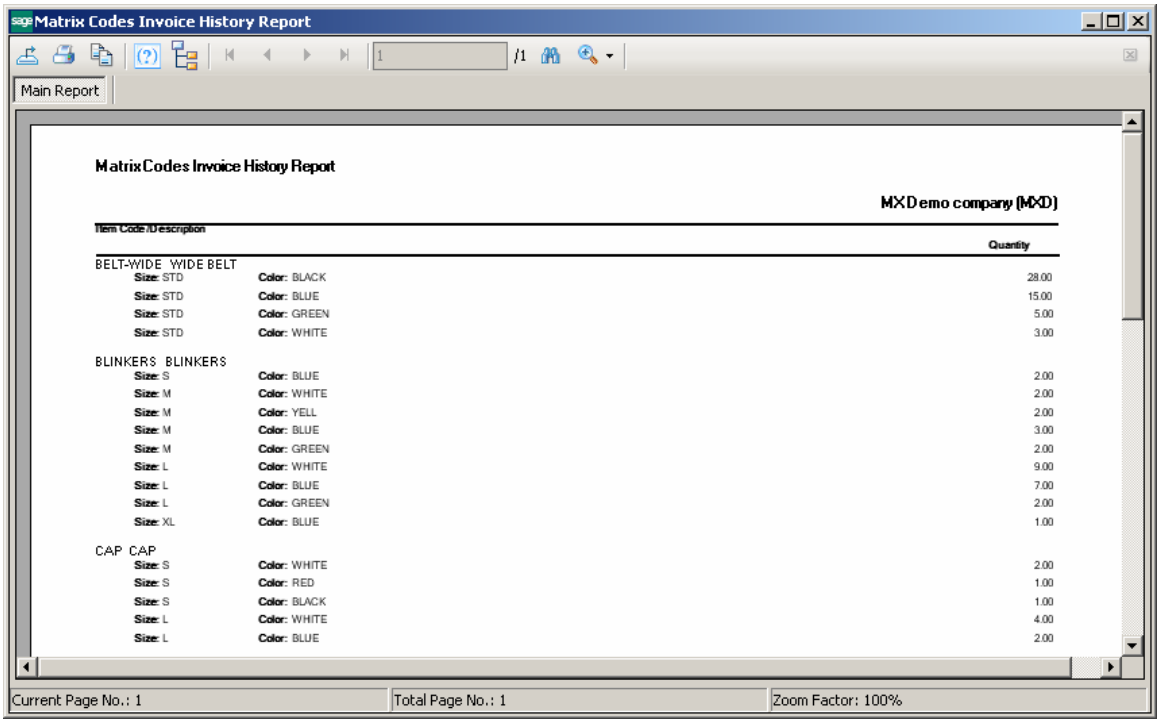

Open Orders By Matrix Lot Report
Main Report
Open Orders By Matrix Lot Report
For Order Types: All
MXDemo company (MXD)
Item Code/Description
Size
Color
Order No.
Type
Ord.Date
Customer Number/Name
Salesperson No/Name
Whse
Quantity Ordered
BELT-WIDE WIDE BELT
Product Line : SPW
U/M: EACH
STD
BLACK
0000184 Std 2/6/2009 01-ABF American Business Futures 01-0100 Jim Kentley 000 1.00
Size: STD Color: BLACK Total: 1.00
STD
BLUE
0000184 Std 2/6/2009 01-ABF American Business Futures 01-0100 Jim Kentley 000 1.00
0000219 Back 12/3/2013 01-ABF American Business Futures 01-0100 Jim Kentley 001 1.00
Size: STD Color: BLUE Total: 2.00
Item BELT-WIDE Total: 3.00
BLINKERS BLINKERS
Product Line : SPW
U/M: EACH
S
WHITE
0000174 Back 5/12/2003 01-ABF American Business Futures 01-0100 Jim Kentley 001 1.00
0000187 Std 6/24/2009 01-ABF American Business Futures 01-0100 Jim Kentley 001 2.00
0000220 Std 2/28/2014 01-ABF American Business Futures 01-0100 Jim Kentley 000 1.00
Size: S Color: WHITE Total: 4.00
S
RED
0000221 Std 2/28/2014 01-ABF American Business Futures 01-0100 Jim Kentley 001 1.00
Size: S Color: RED Total: 1.00
M
WHITE
0000220 Std 2/28/2014 01-ABF American Business Futures 01-0100 Jim Kentley 000 2.00
Size: M Color: WHITE Total: 2.00
L
WHITE
0000188 Back 6/24/2009 01-ABF American Business Futures 01-0100 Jim Kentley 001 5.00
Size: L Color: WHITE Total: 5.00
L
BLACK
0000184 Std 2/6/2009 01-ABF American Business Futures 01-0100 Jim Kentley 000 3.00
0000186 Back 6/24/2009 01-ABF American Business Futures 01-0100 Jim Kentley 000 1.00
0000219 Back 12/3/2013 01-ABF American Business Futures 01-0100 Jim Kentley 000 1.00
Size: L Color: BLACK Total: 5.00
XL
WHITE
0000174 Back 5/12/2003 01-ABF American Business Futures 01-0100 Jim Kentley 001 1.00
0000221 Std 2/28/2014 01-ABF American Business Futures 01-0100 Jim Kentley 001 2.00
Size: XL Color: WHITE Total: 3.00
XL
RED
0000184 Std 2/6/2009 01-ABF American Business Futures 01-0100 Jim Kentley 001 2.00
0000187 Std 6/24/2009 01-ABF American Business Futures 01-0100 Jim Kentley 001 2.00
Size: XL Color: RED Total: 4.00
Item BLINKERS Total: 24.00
CAP CAP
Product Line : SPW
U/M: EACH
S
RED
0000180 Std 12/5/2003 02-CUSTOM Custom Craft Products 02-0300 Harvey Earlwright 001 1.00
Current Page No.: 1
Total Page No.: 1+
Zoom Factor: 100%

Matrix Codes Invoice History Report

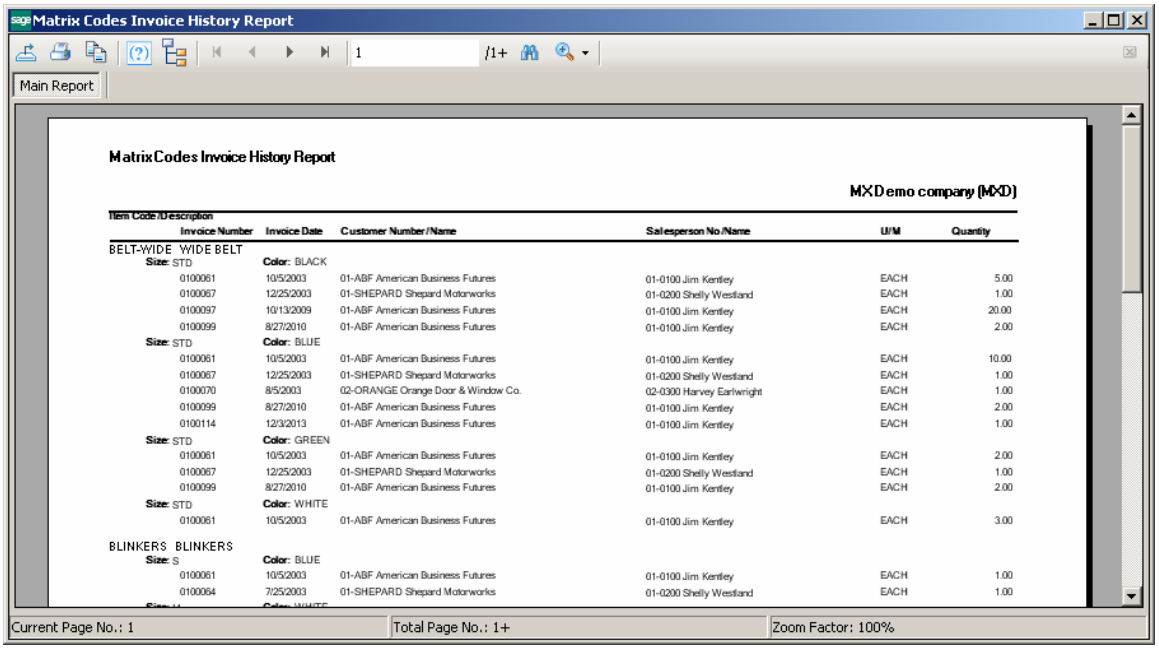
The **Matrix Codes Invoice History Report** added under the Sales Order Reports menu provides detail/summary sales history information about the Matrix Codes.



Here is an example of printout for summary report form:



Here is an example of printout for detail report form:

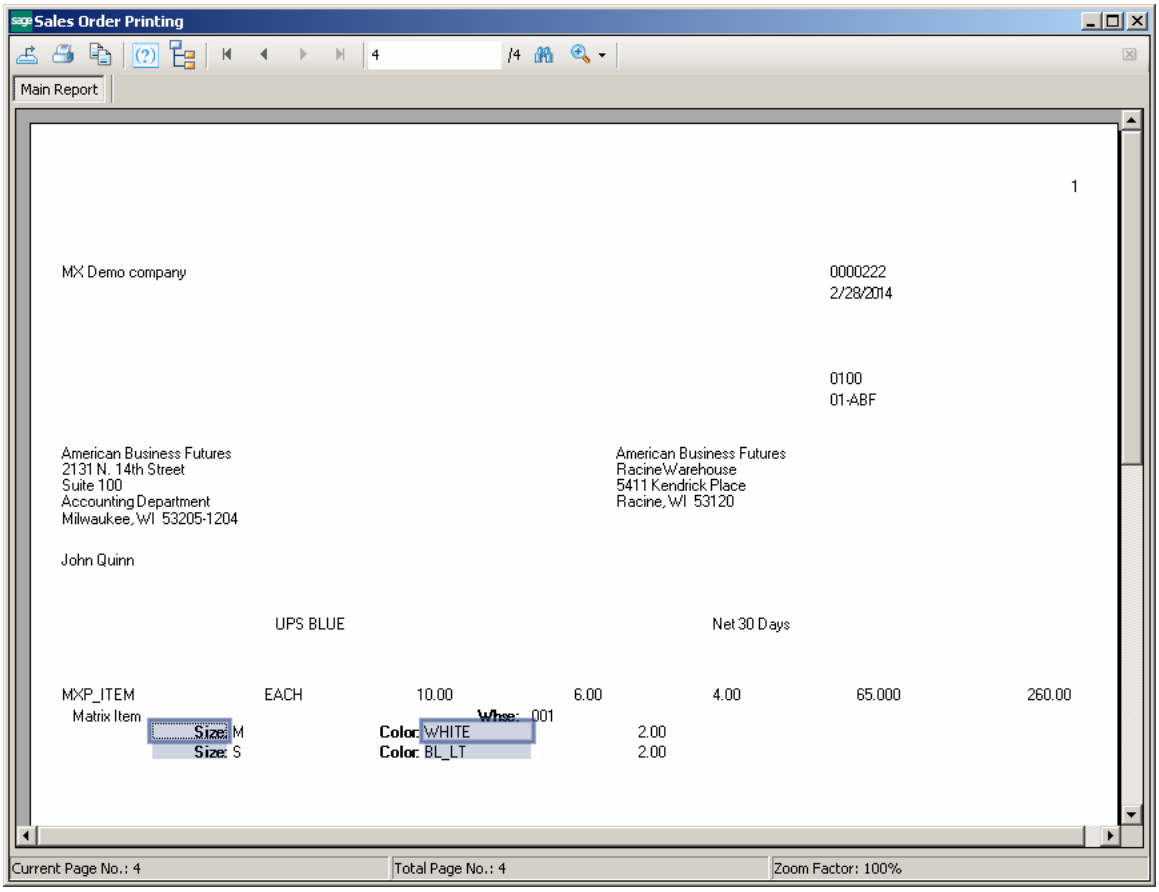


Other Printing Forms

Preprinted Laser

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.

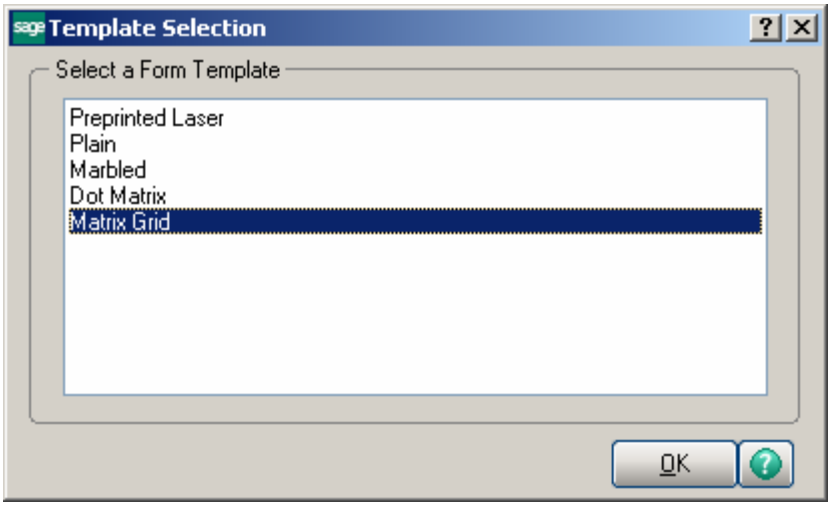
Here is an example of printout:



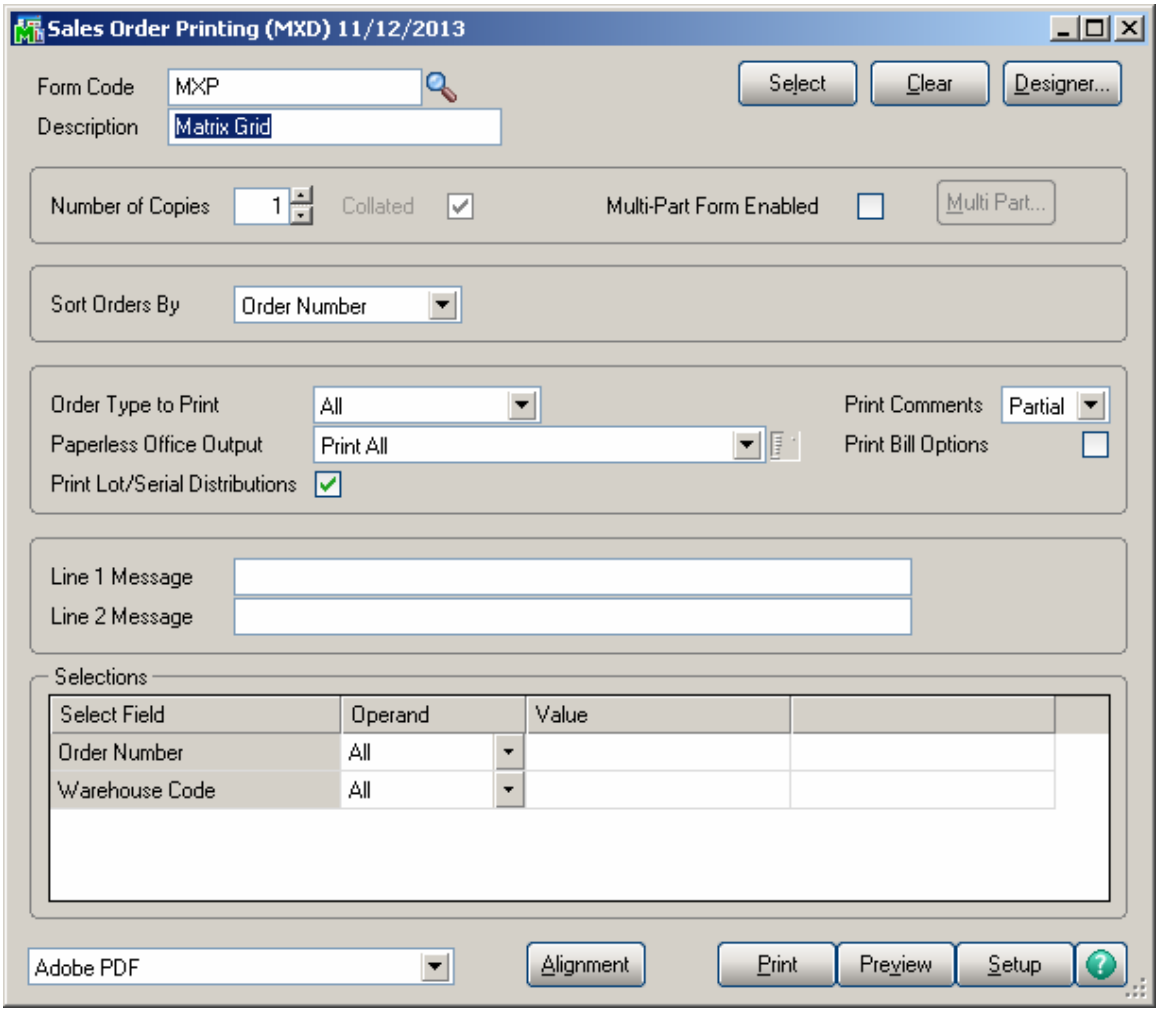
*The numbers of **Matrix Codes** in the **Line Temporary Work** files are 50 for the Matrix form in the graphical printings of the **Sales Order, Picking Sheet, Sales Order Invoice** and **Purchase Order**.*

Matrix Grid

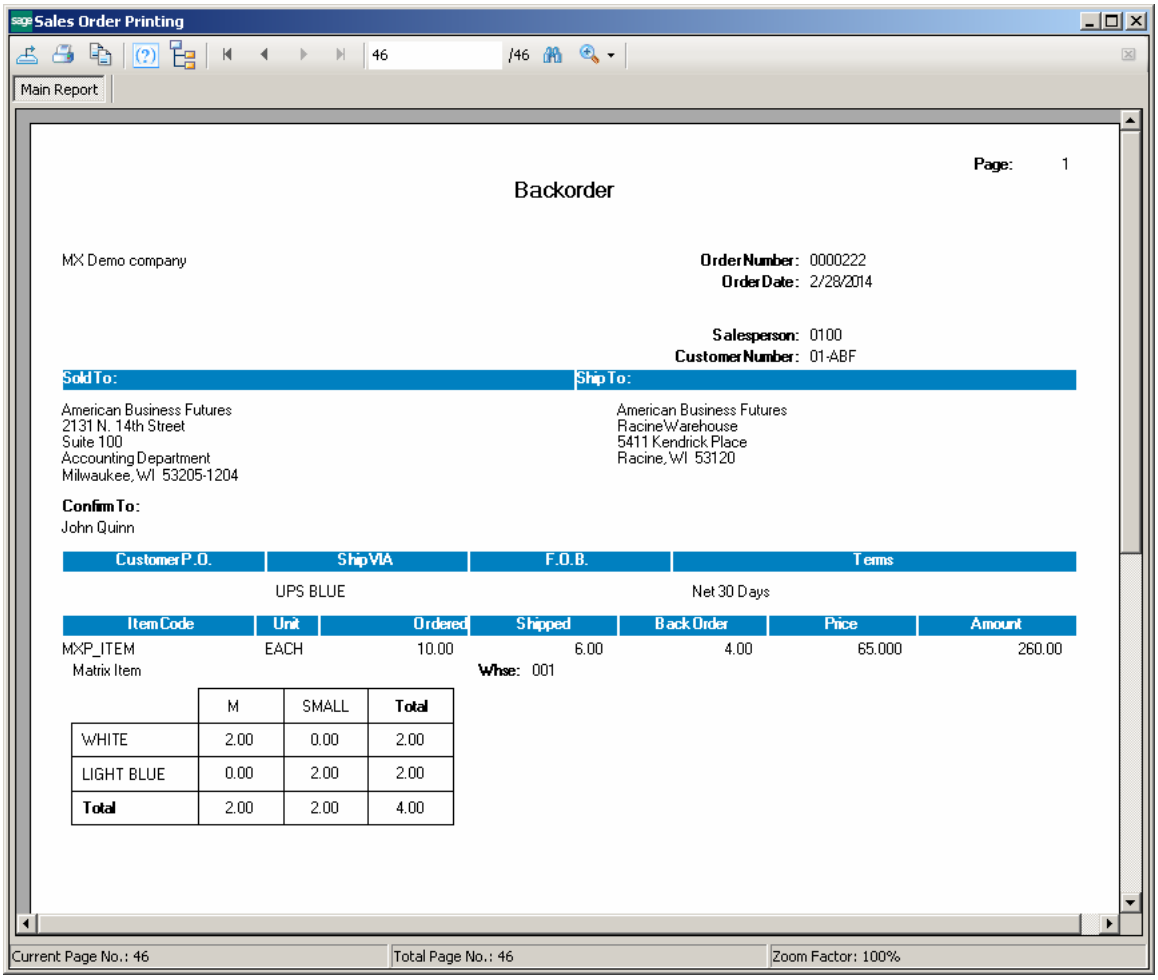
The **Matrix Grid** printing form has been added to the graphical printing Form Templates to allow printing the Matrix Distribution grid information on the report.



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


Sales Order Printing (MXD) 11/12/2013
Form Code
MXP
Description
Matrix Grid
Select
Clear
Designer...
Number of Copies
1
Collated
Multi-Part Form Enabled
Multi Part...
Sort Orders By
Order Number
Order Type to Print
All
Print Comments
Partial
Paperless Office Output
Print All
Print Bill Options
Print Lot/Serial Distributions
Line 1 Message
Line 2 Message
Selections
Select Field
Operand
Value
Order Number
All
Warehouse Code
All
Adobe PDF
Alignment
Print
Preview
Setup

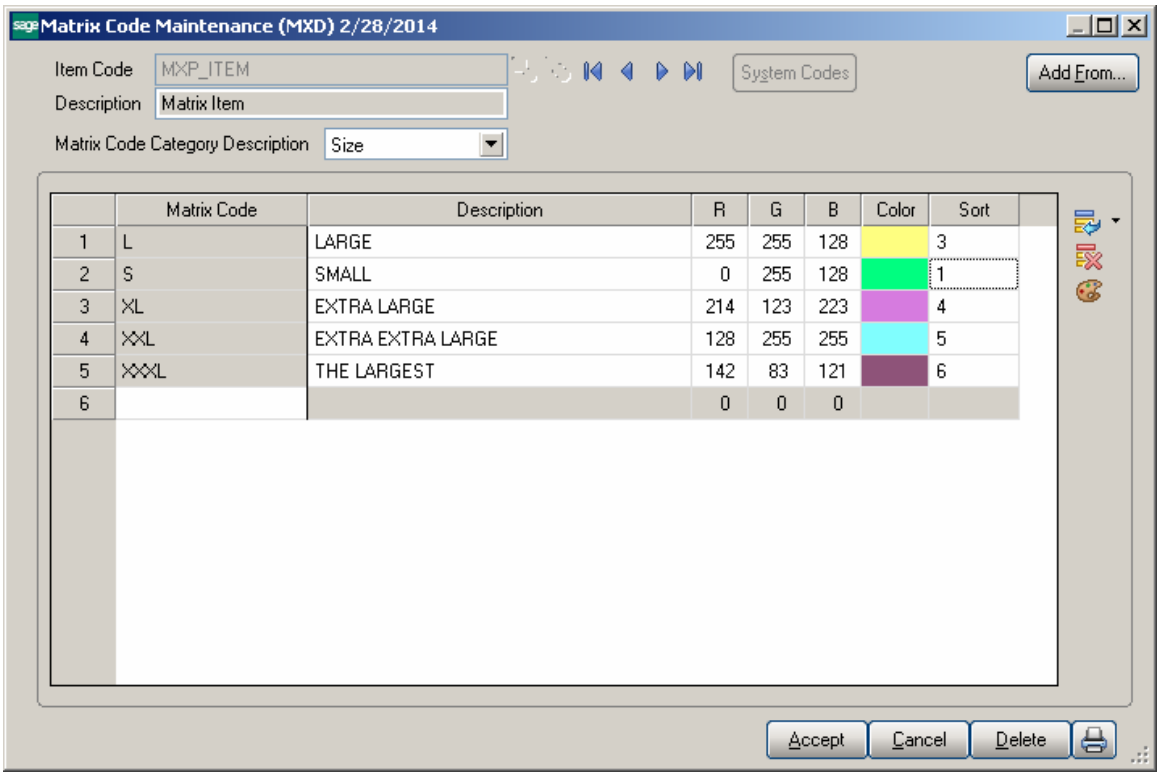
Here is an example of **Sales Order Printing** by the Form Code created for Matrix Grid format.



Matrix Codes Sorting in Printings

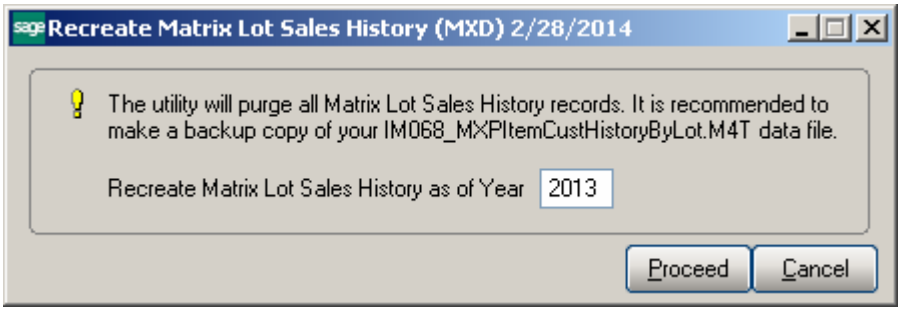
The following printings display information in the order according to the **Sort** field value of **Matrix Codes Matrix Code Maintenance:**

- 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



Recreate Matrix Lot Sales History

The **Recreate Matrix Lot Sales History** utility added to the **Inventory Management** Utilities menu allows for purging the Sales History for Matrix Lot Items and creates it anew starting from the Year specified on the utility.

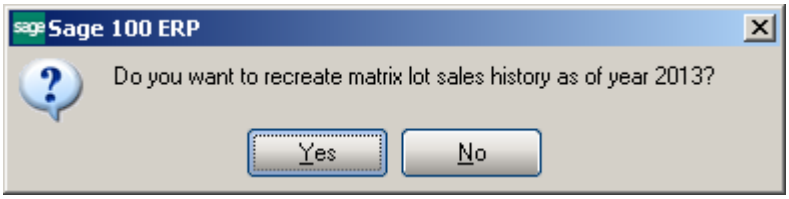


Recreate Matrix Lot Sales History as of Year- Enter the year to be used for recreating Matrix Lot Sales History.

The default Year value is calculated based on the Fiscal/Calendar Periods selected at the Base Inventory Periods On field in the Inventory Management Options and the Years to retain Item History value set in the CI Options.

Note: All Matrix Lot Sales history will be permanently removed from the system regardless the Year specified.

The following message is popup upon pressing the **Proceed** button.



Selecting **Yes** will remove the Matrix Lot Sales History for all previous years and rebuild new History based on the IM Lot Serial Transaction History data file.

Rebuild Sort Files

The **Rebuild Sort Files** utility has been modified to take into account also the On PO Qty for Matrix Lots while recalculating committed lot/serial quantities.