



Matrix Processing For Sage 100 ERP 2015

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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 “**Installation Instructions for MXP520.txt**” file located in the **Doc** folder of the installation CD.

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.

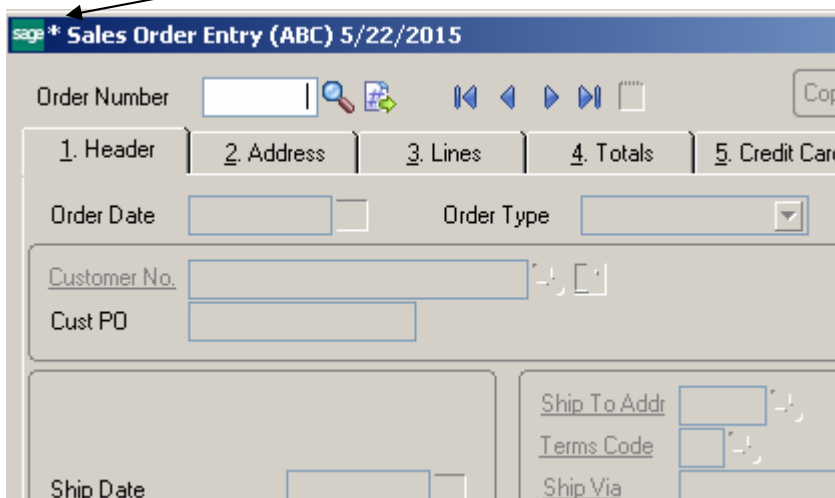
Wait! Before You Install – Do You Use CUSTOM OFFICE?

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**.

Enhancement	Level	Release Date	Serial Number	Unlocking Key
IIG Enhancement	5.10		AAAAAAAAAAAAAAAAAAAA	BBBBB
IIG Enhancement	5.20		AAAAAAAAAAAAAAAAAAAA...	BBBBB

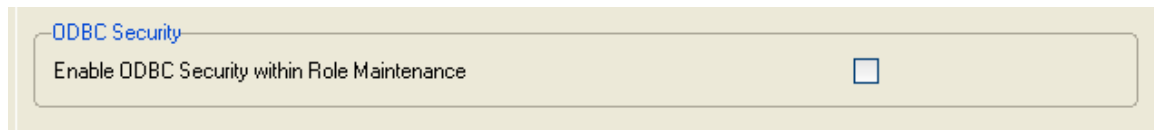
Enter **Serial Number** and **Unlocking Key** provided by IIG, and click **OK**.

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.

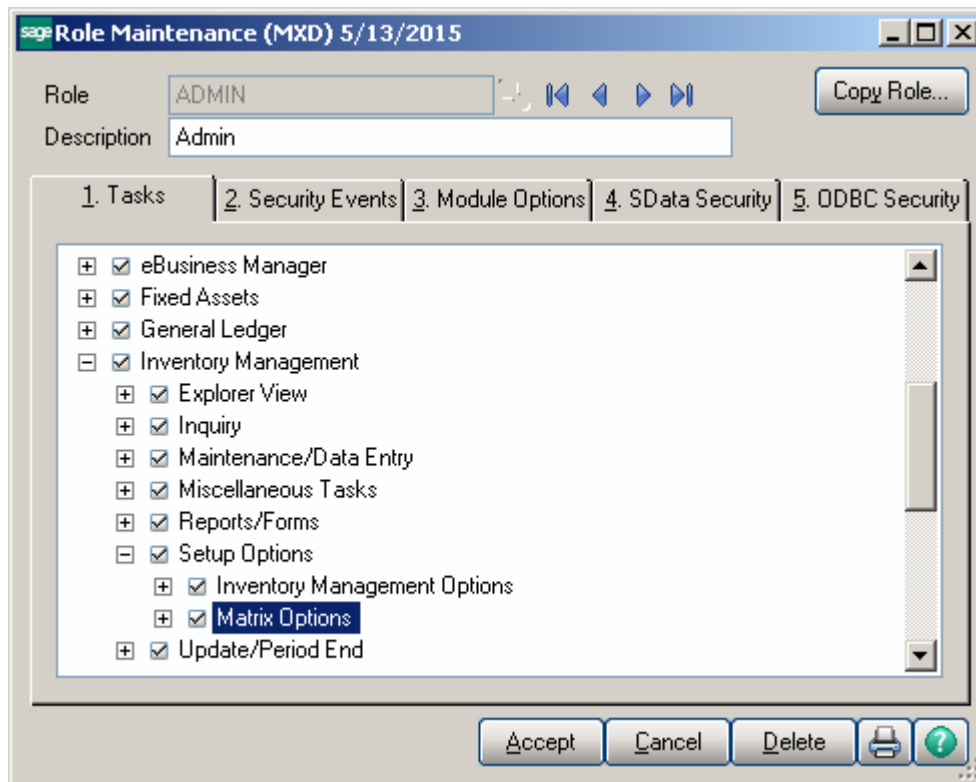
ODBC Security

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](#)
- [Return 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, Packing List** and **Purchase Order** printings.

It is necessary to have the **Retain Lot/Serial Item History** option set to **Lot Items** in the **Sales Order Options** be able to view sales history for Matrix Lots.

Setup

Matrix Options

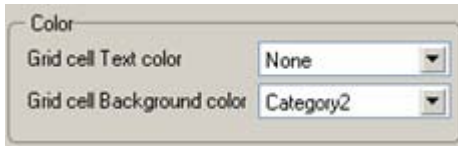
Select the **Matrix Options** program under the **Inventory Management Setup** menu.

The **Manual** button allows for viewing MXP enhancement document in a PDF format. 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.

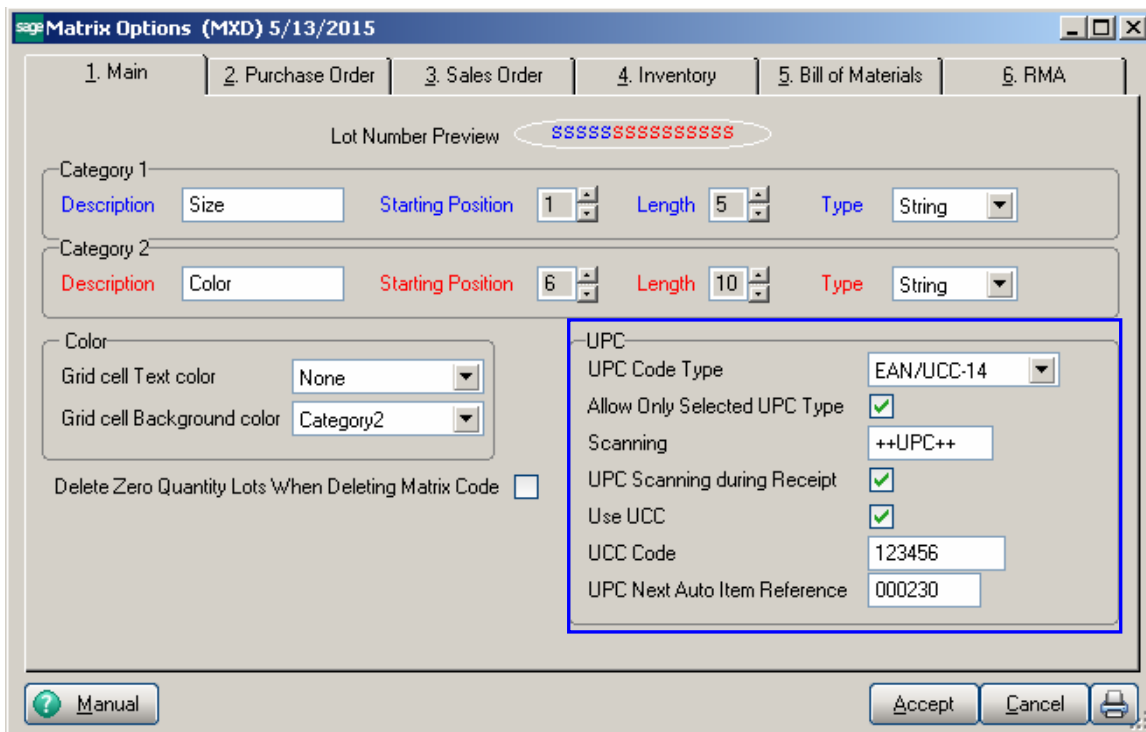


Select a Category in the **Grid cell Text color** field. The text in the cells of the matrix distribution grid will be displayed in the colors assigned to the Codes of the selected Category. Colors are assigned in the **Matrix Code Maintenance** program.

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 the Lot Numbers, which do not have Quantity, deleted when respective Matrix Code is deleted for an 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.

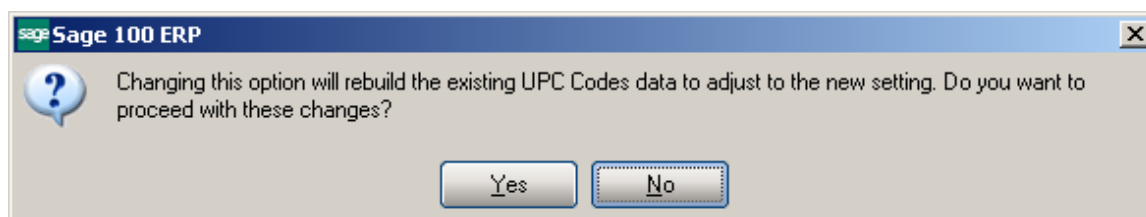


The **UPC Code Type** determines the default length to be used for the code – 12, 13 or 14 digits. The available options are UCC-12, EAN/UCC-13, EAN/UCC-14.

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 indicate 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.

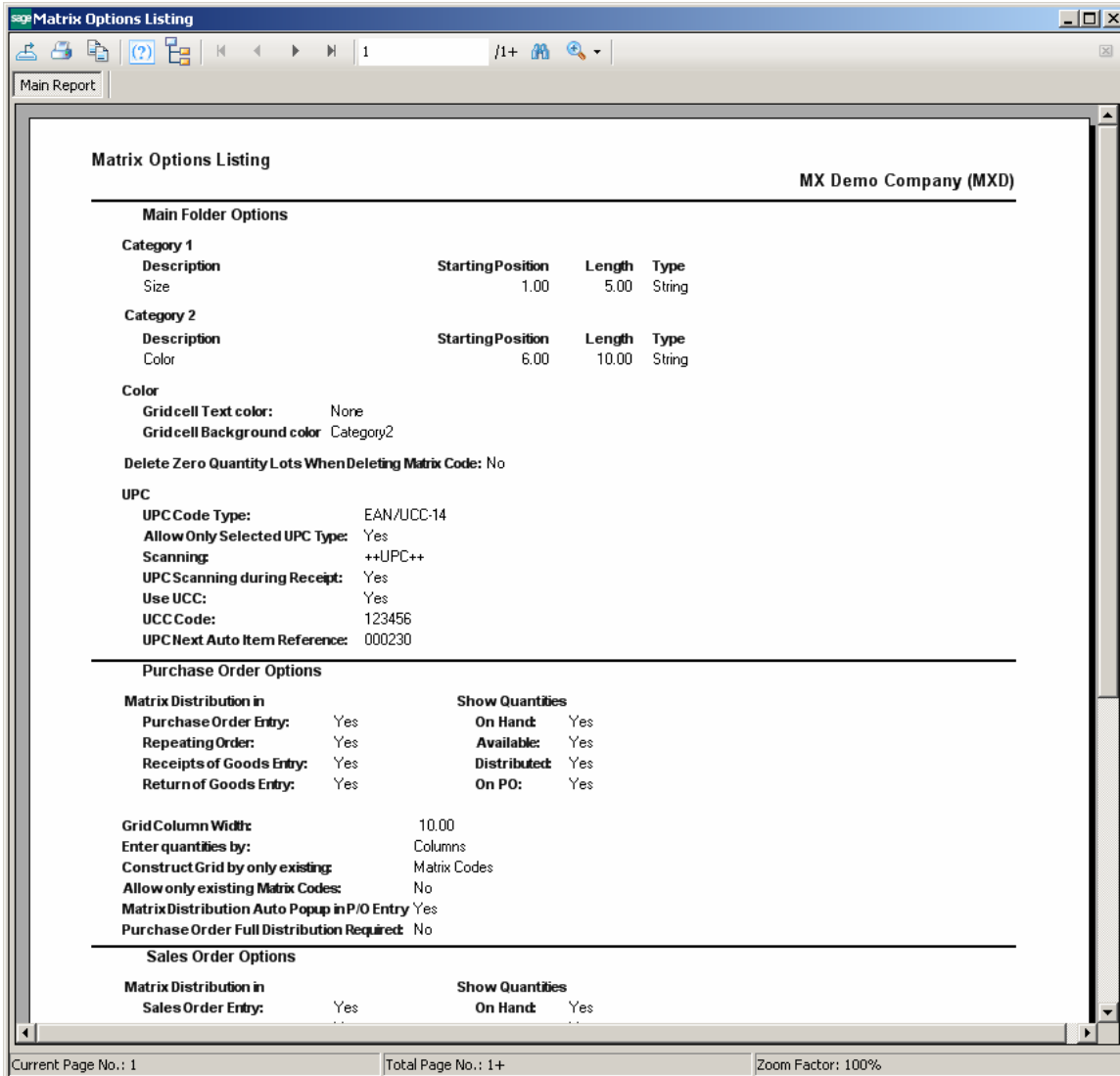
Check the **Use UCC** box, if your company manufactures rather than purchases and sells finished goods

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** when 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 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, and 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 only by existing 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 focus is in the **Ordered** field. In this case, the **Ordered** quantity is set equal to the **Quantity Distributed** on the **Matrix Distribution** screen.

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.

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

The screenshot shows the 'Sage Matrix Options (MXD) 5/13/2015' dialog box. The 'Sales Order' tab is active. Under 'Matrix Distribution in', 'Sales Order Entry', 'Price Quote', and 'Invoice Data Entry' are all checked. Under 'Show Quantities', 'On Hand', 'Available', and 'Distributed' are all checked. 'Grid Column Width' is set to 10. 'Enter quantities by' is set to 'Columns'. 'Matrix Distribution Auto Popup in S/O Entry' is unchecked. The bottom of the dialog has a 'Manual' button, 'Accept', 'Cancel', and a printer icon.

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 focus is in the **Ordered** field. In this case, the **Ordered** quantity is set equal to the **Quantity Distributed** on the **Matrix Distribution** screen.

For Back Orders, the **Back Ordered** field is used instead of the **Ordered**.

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

The screenshot shows the Sage Matrix Options (MXD) 5/13/2015 dialog box. The 'Inventory' tab is selected. The 'Matrix Distribution in' section has two checked checkboxes: 'Inventory Transaction Entry' and 'Physical Count Entry'. The 'Show Quantities' section has three checked checkboxes: 'On Hand', 'Available', and 'Distributed'. The 'Grid Column Width' is set to 15. The 'Enter quantities by' dropdown is set to 'Columns'. At the bottom are buttons for 'Manual', 'Accept', 'Cancel', and a printer icon.

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 not be available.

The screenshot shows the Sage Matrix Options (MXD) 5/13/2015 dialog box. The '5. Bill of Materials' tab is selected. The 'Matrix Distribution in' section has three checked boxes: 'Production Entry', 'Auto Distribute Lines', and 'Disassembly Entry'. The 'Show Quantities' section has three checkboxes: 'On Hand' (unchecked), 'Available' (checked), and 'Distributed' (checked). The 'Grid Column Width' is set to 15, and 'Enter quantities by' is set to 'Rows'. Buttons for 'Manual', 'Accept', 'Cancel', and a printer icon are visible at the bottom.

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 **Return Merchandise Authorization (RMA)** module.

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

The screenshot shows the Sage Matrix Options (MXD) 5/13/2015 dialog box. The 'RMA' tab is selected. The 'Matrix Distribution in' section has two checked checkboxes: 'RMA Data Entry' and 'RMA Receipts Entry'. The 'Show Quantities' section has two checked checkboxes: 'Available' and 'Distributed'. The 'Grid Column Width' is set to 15. The 'Enter quantities by' dropdown is set to 'Columns'. At the bottom, there are buttons for 'Manual', 'Accept', 'Cancel', and a printer icon.

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

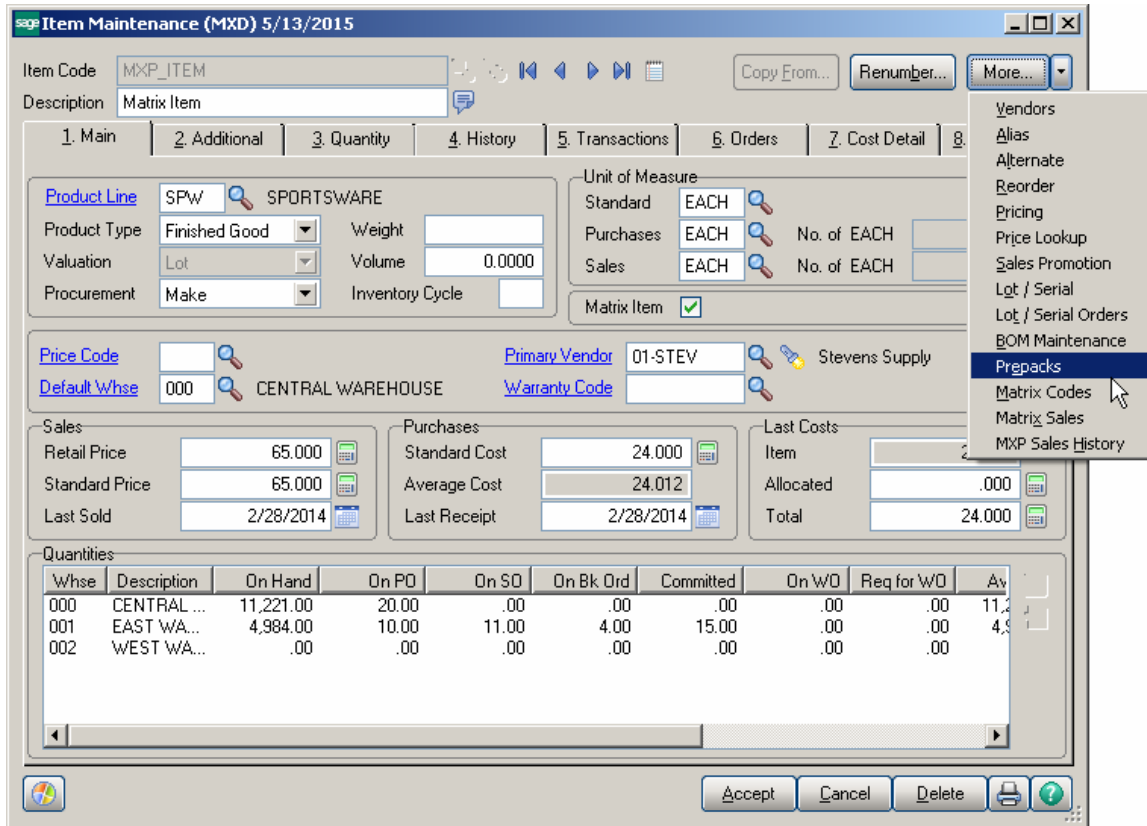
Select the **Item Maintenance** program under the Inventory Management Main menu.

The screenshot shows the SAP Item Maintenance (MXD) window for item MXP_ITEM. The 'Matrix Item' checkbox is checked and highlighted with a blue box. The 'Valuation' is set to 'Lot'. The 'Matrix Item' checkbox is located in the 'Unit of Measure' section.

Whse	Description	On Hand	On PO	On SO	On Bk Ord	Committed	On WD	Req for WD	Average
000	CENTRAL ...	11,221.00	20.00	.00	.00	.00	.00	.00	11,221.00
001	EAST WA...	4,984.00	10.00	11.00	4.00	15.00	.00	.00	4,984.00
002	WEST WA...	.00	.00	.00	.00	.00	.00	.00	.00

Select the **Matrix Item** checkbox to indicate matrix items.

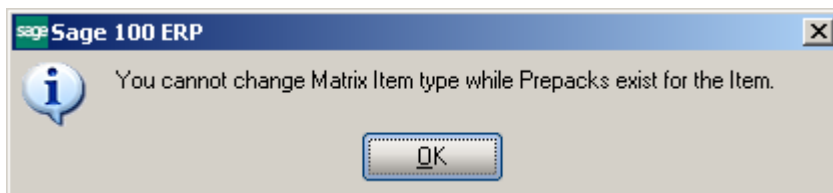
The **Matrix Item** box can be checked only for **Lot** items. The **Valuation** of an item specified as **Matrix Item** cannot be changed to any type other than **Lot**.



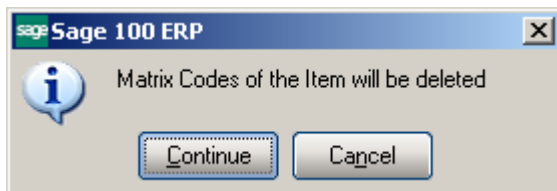
The **Prepacks**, **Matrix Codes**, **Matrix Sales** and **MXP Sales History** buttons are enabled only for Matrix Items.

[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, a prompt appears about deleting Matrix Codes:



Matrix Codes of the item will be deleted, if the user chooses **Continue**.

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

	Matrix Code	Description	R	G	B	Color	Sort
1	L	LARGE	255	255	128	Yellow	3
2	S	SMALL	0	255	128	Green	1
3	XL	EXTRA LARGE	214	123	223	Purple	2
4	XXL	EXTRA EXTRA LARGE	128	255	255	Cyan	5
5	XXXL	THE LARGEST	142	83	121	Dark Purple	4
6			0	0	0		

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.

Item Code: MXP_ITEM Matrix Item

Customer No.: 01-ABF Ship To: ALL Compare PY

Name: American Business Futures

Size: S Color: RED

Period	Ending	Qty Sold	Sales \$	Cost of Sales	Qty Returned
01	Jan 31	.00	.00	.00	.00
02	Feb 28	.00	.00	.00	.00
03	Mar 31	.00	.00	.00	.00
04	Apr 30	.00	.00	.00	.00
05	May 31	20.00	1,300.00	480.00	.00
06	June 30	.00	.00	.00	.00
07	July 31	.00	.00	.00	.00
08	Aug 31	.00	.00	.00	.00
09	Sept 30	.00	.00	.00	.00
10	Oct 31	.00	.00	.00	.00
11	Nov 30	.00	.00	.00	.00
12	Dec 31	.00	.00	.00	.00
	Total	20.00	1,300.00	480.00	.00

Year: 2015

Transaction History, Alt-Z

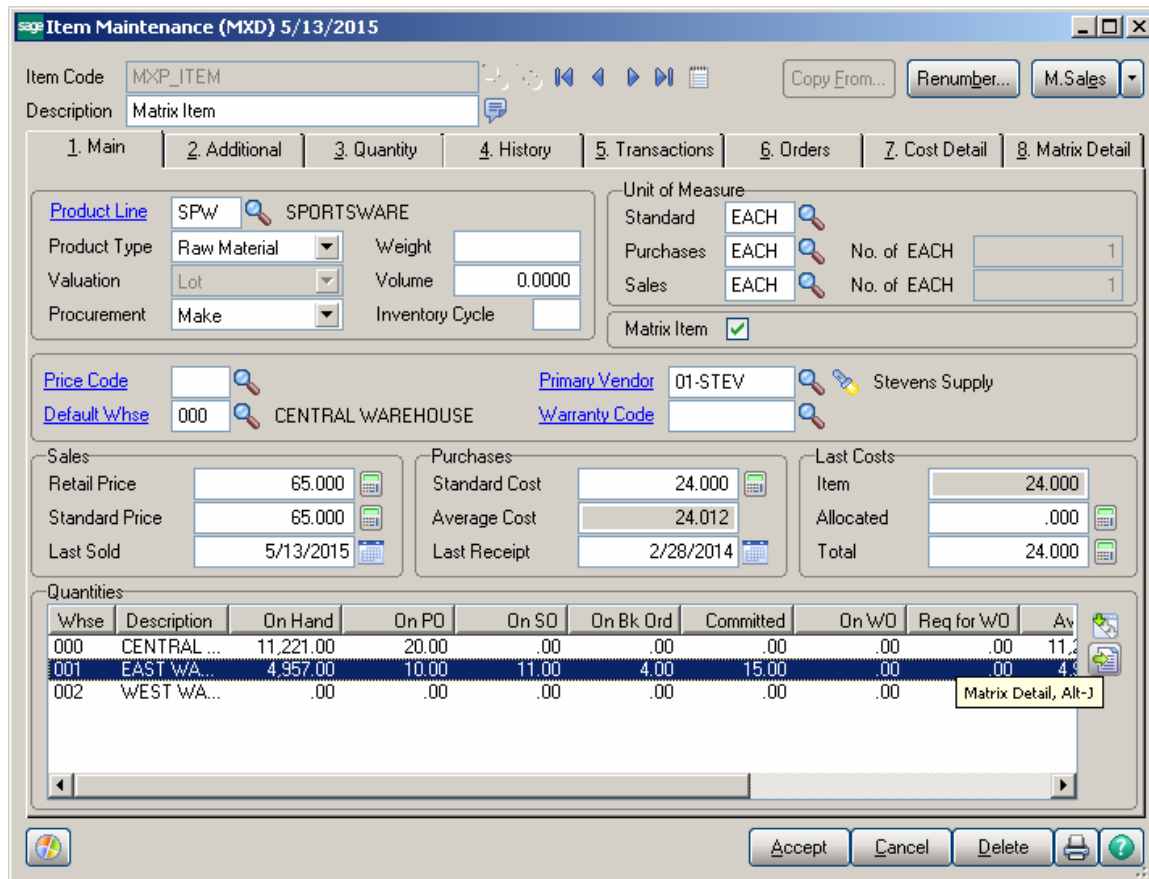
You may drill down also to the sales transaction history information:

Customer No.: 01-ABF American Business Futures Year: 2015 Period: 05

Item Code: MXP_ITEM Matrix Item Ship To: ALL

Trans Date	Type	Ref No.	Whse	Description	Quantity	Unit Cost	Extension
5/13/2015	SO	0100119...	001	EAST WAR...	27.00-	24.000	648.00-

The **Matrix Detail** information is available from the Quantity 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.

Item Code: MXP_ITEM Matrix Item
Warehouse: 001 EAST WAREHOUSE

	S	XL	L	XXXL	XXL
WHITE	500.00/500.00/0		0/0/0		
BL_LT	499.00/497.00/0		0/0/2.00		
YELL	500.00/500.00/0				
RED	478.00/478.00/0		3.00-/5.00-/0		
GREEN	500.00/500.00/0		3.00-/3.00-/0		
GR_LT	500.00/500.00/0	2.00-/5.00-/0			0/0/0
BLUE	500.00/500.00/0				
GRAY	500.00/500.00/0				
BLACK	500.00/500.00/0		2.00-/2.00-/3.00		

Show Quantities: On Hand Available On PO Construct Grid by only existing Matrix Codes
Grid column Width: 15

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

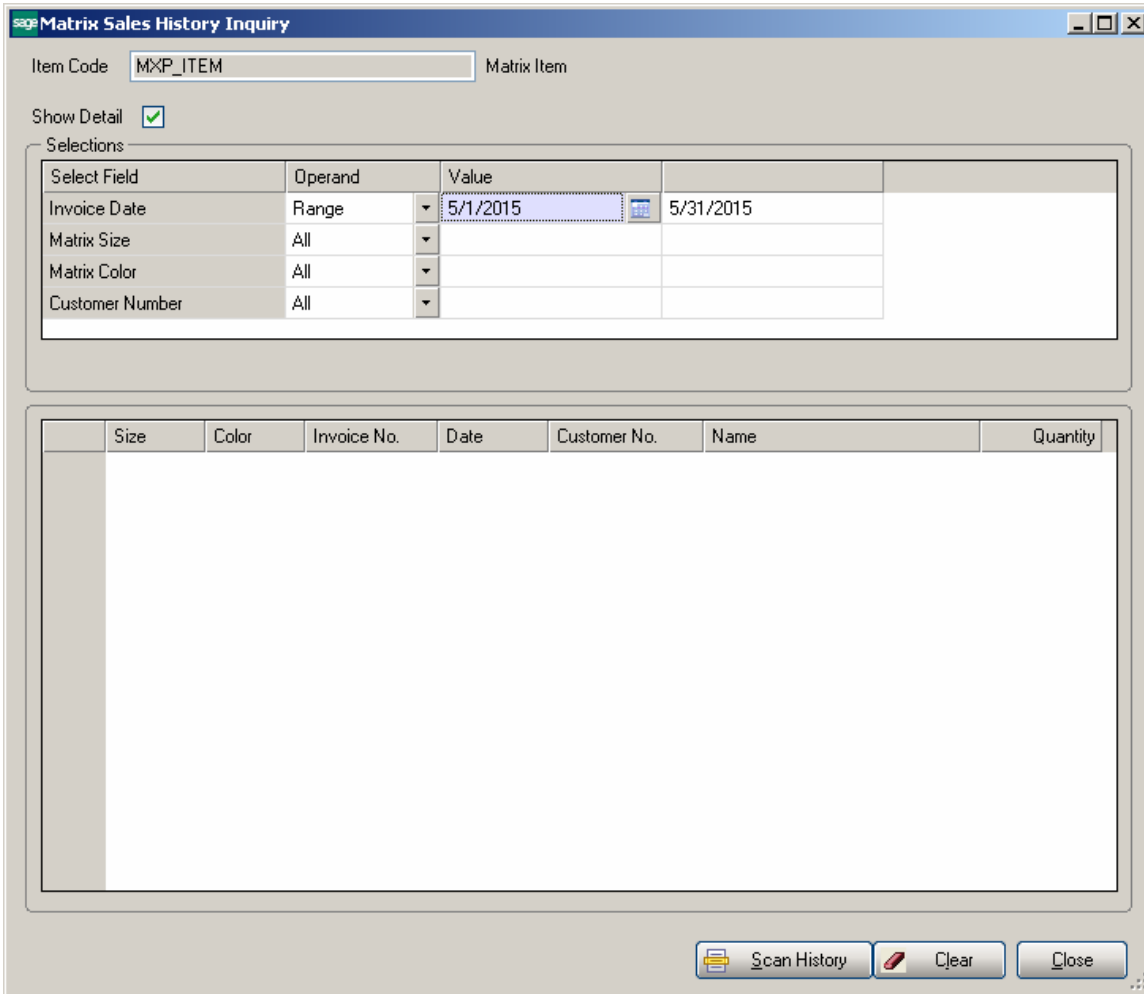
If the **Include in Quantity Available** option is set to “Purchase Order” or “PO s and WO s” in the **Inventory Management Options** the quantity On PO for Matrix Lot will be included in the quantity available calculation and reflected in the quantity available displayed on the Matrix Grid wherever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

Use the **MXP Sales History** popup menu button to view Matrix Item Sales history information by customer and by the Item Matrix codes.

It is necessary to have the **Retain Lot/Serial Item History** option set for Lot Items in the Sales Order Options in order to be able to view Matrix **Sales History**, otherwise the following message appears:



Matrix Sales History Inquiry window is opened with Item Code defaulted to the one selected in the Item Maintenance.

Show Detail flag is set by default to allow viewing detail sales history information by customer, Invoice number, Invoice date.

If this flag is turned off the user may view matrix item sales history only by the Item Matrix Codes and the total quantities sold to customers for the selected period.

The **Invoice Date** is defaulted respectively to starting and ending dates of current inventory period setup in the Inventory Management options.

After making the necessary selections press the **Scan History** button to have the information loaded into the grid:

sage Matrix Sales History Inquiry [min] [max] [close]

Item Code: Matrix Item

Show Detail

Selections

Select Field	Operand	Value	
Invoice Date	Range	5/1/2015	5/31/2015
Matrix Size	All		
Matrix Color	All		
Customer Number	All		

	Size	Color	Invoice No.	Date	Customer No.	Name	Quantity
	M	BL_LT	0100119	5/13/2015	01-ABF	American Business Futures	2.00
	M	WHITE	0100119	5/13/2015	01-ABF	American Business Futures	5.00
	S	RED	0100119	5/13/2015	01-ABF	American Business Futures	20.00

[Scan History] [Clear] [Close]

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.

Customer No. 01-ABF American Business Futures

Item Code: [] Description: [] Size: [] Color: [] Ship To: [] Compare PY: []

Period	Ending	Qty Sold	Sales \$	Cost of Sales	Qty Returned
01	Jan 31	.00	.00	.00	.00
02	Feb 28	.00	.00	.00	.00
03	Mar 31	.00	.00	.00	.00
04	Apr 30	.00	.00	.00	.00
05	May 31	.00	.00	.00	.00
06	June 30	.00	.00	.00	.00
07	July 31	.00	.00	.00	.00
08	Aug 31	.00	.00	.00	.00
09	Sept 30	.00	.00	.00	.00
10	Oct 31	.00	.00	.00	.00
11	Nov 30	.00	.00	.00	.00
12	Dec 31	.00	.00	.00	.00
Total		.00	.00	.00	.00

2015

OK ?

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

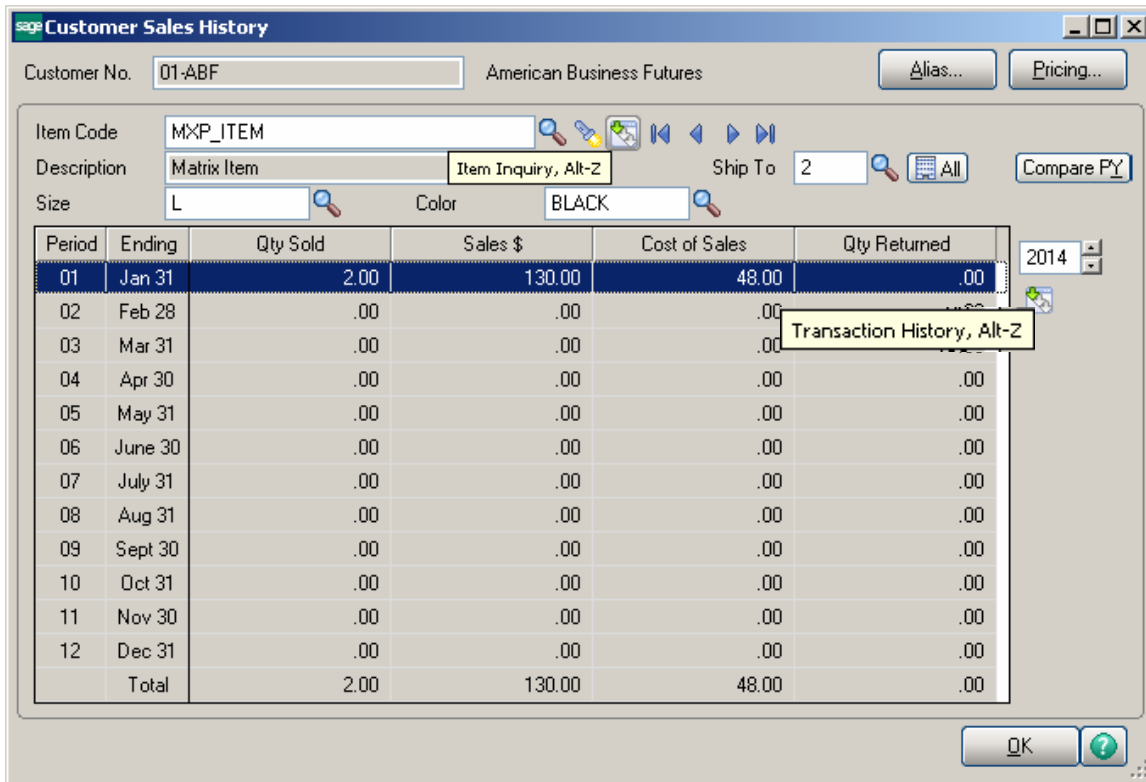
Item Code	Description	Lot Serial No	Ship To Code
BELT-WIDE	WIDE BELT	STD BLACK	2
BELT-WIDE	WIDE BELT	STD BLUE	2
BELT-WIDE	WIDE BELT	STD BLUE	2
BELT-WIDE	WIDE BELT	STD GREEN	2
BLINKERS	BLINKERS	M YELL	2
BOOTS-EJM876	TENNIS BOOTS	7 BLUE	2
BOOTS-EJM876	TENNIS BOOTS	8S BLUE	2
MXP_ITEM	Matrix Item	L BLACK	2
MXP_ITEM	Matrix Item	L GREEN	2
MXP_ITEM	Matrix Item	L RED	2
MXP_ITEM	Matrix Item	M BL_LT	2
MXP_ITEM	Matrix Item	M WHITE	2
MXP_ITEM	Matrix Item	M WHITE	2
MXP_ITEM	Matrix Item	S BL_LT	2
MXP_ITEM	Matrix Item	S RED	2

Search: Item Code Begins with Find

Filters... Custom... Lookup Wizard... Select Cancel

Found 24 records

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**.

The screenshot shows the SAP Sales Transaction History window. At the top, there are input fields for Customer No. (01-ABF), American Business Futures, Year (2014), and Period (01). Below these are Item Code (MXP_ITEM), Matrix Item, and Ship To (2). The main area contains a table with the following data:

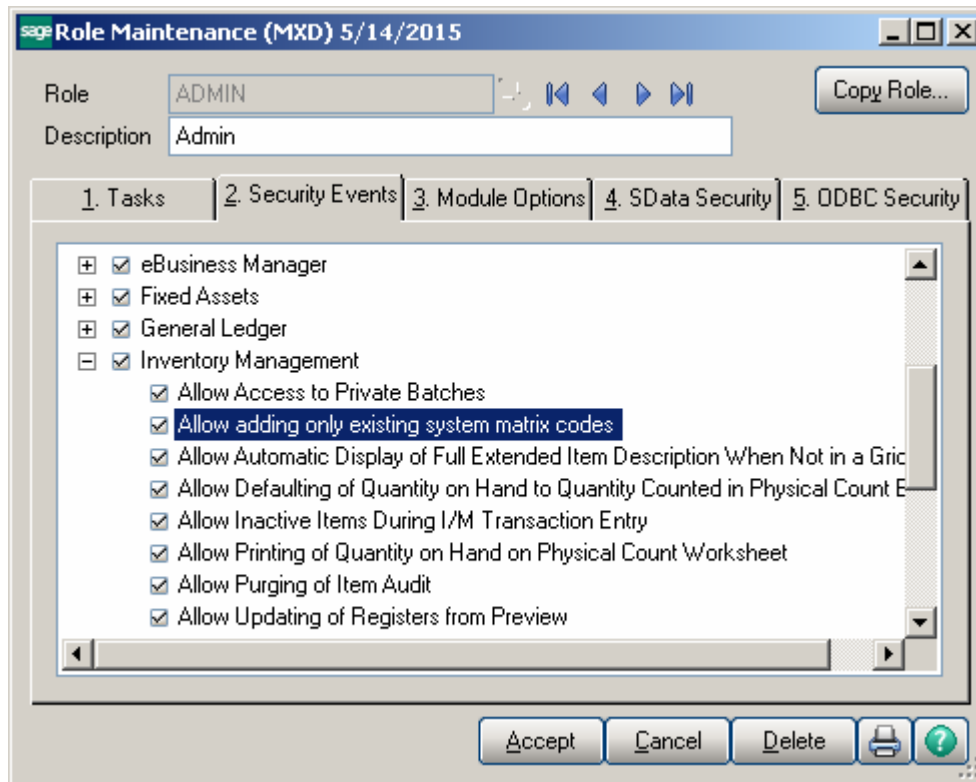
Trans Date	Type	Ref No.	Whse	Description	Quantity	Unit Cost	Extension	Item Cost
1/20/2014	SO	0100115...	001	EAST WA...	10.00-	4.800	48.00-	4.800

At the bottom right of the window, there are buttons for OK and a help icon.

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.



If this security event is enabled for a user's role, the user can add a Matrix code for an Item only from System Matrix codes. The following message will appear when trying to add a Matrix Code not existing in the System Matrix Codes.



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.

Matrix Code	Description	R	G	B	Color	Sort
-------------	-------------	---	---	---	-------	------

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.

SAP Matrix Code Maintenance (MXD) 5/14/2015

Item Code: *SYSTEM_MATRIX* System Codes Add From...

Description: *SYSTEM MATRIX CODES*

Matrix Code Category Description: Size

	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

SAP Matrix Code Maintenance (MXD) 5/14/2015

Item Code: *SYSTEM_MATRIX* System Codes Add From...

Description: *SYSTEM MATRIX CODES*

Matrix Code Category Description: Color

	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.

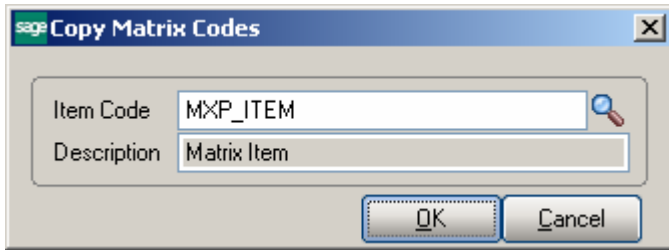
The **Add From** button allows for copying Matrix Codes from any item to the selected item's Matrix Codes.

	Matrix Code	Description	R	G	B	Color	Sort
1			0	0	0		

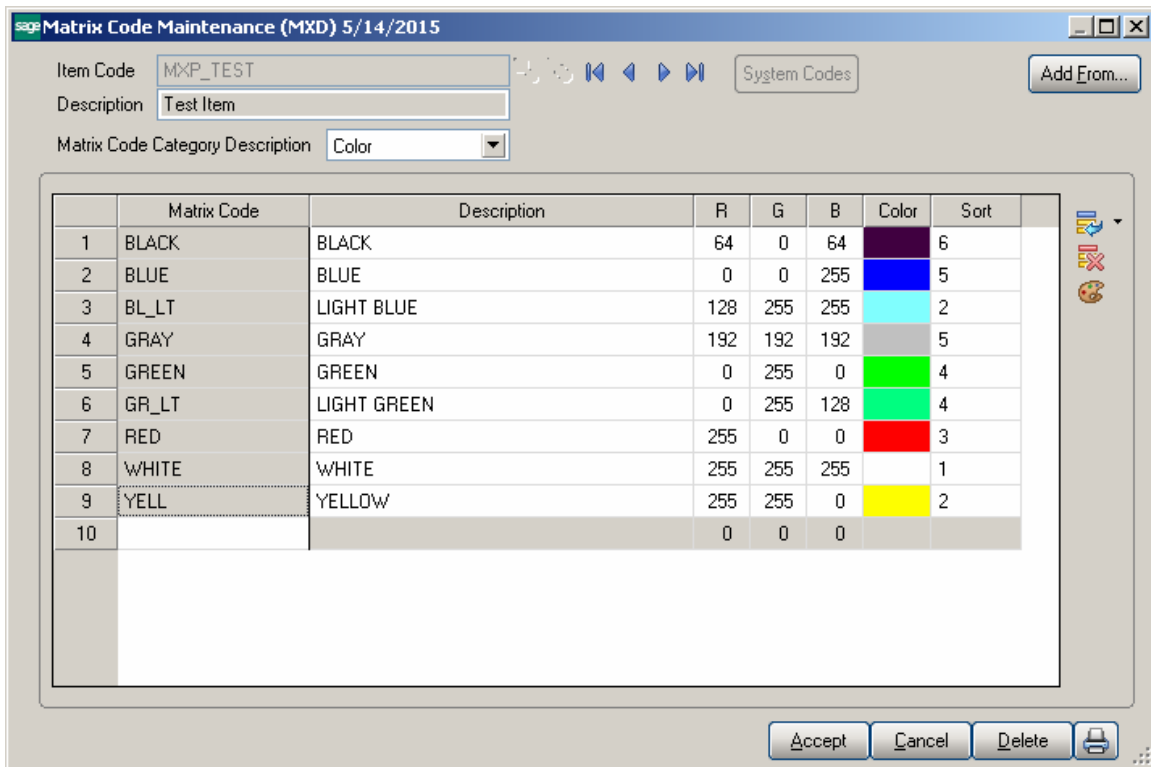
The **Copy Matrix Codes** window is opened upon pressing the **Add From...** button

Item Code	Description

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.



Print button allows printing the Matrix Codes listing:

Report Setting: STANDARD

Description: Matrix Codes Listing

Setting Options:

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

Sort Report By: Matrix Item Code

Selections:

Select Field	Operand	Value
Matrix Item Code	All	
Matrix Item Description	All	

Buttons: Print, Preview, Setup

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:

Matrix Codes Listing
Sorted by Matrix Item Code

MX Demo Company (MXD)

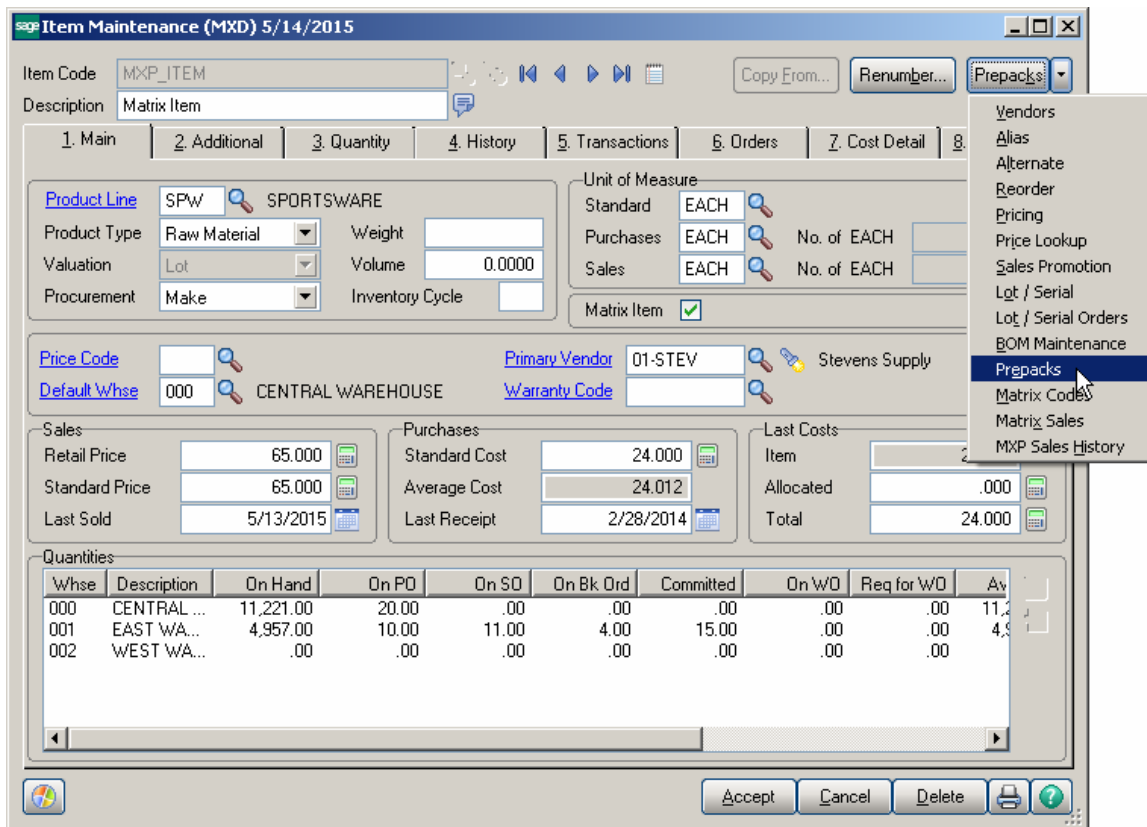
Item Code	Category	Matrix Code	Matrix Code Description	R	G	B	Sort
SYSTEM_MATRIX *SYSTEM MATRIX CODES*							
	Size:	L	LARGE	255	255	255	3
		S	SMALL	255	255	255	1
		XL	EXTRA LARGE	255	255	255	4
		XXL	EXTRA EXTRA LARGE	255	255	255	5
		XXXL	THE LARGEST	255	255	255	6
	Color:	BLACK	BLACK	64	0	64	6
		BLUE	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	
		GREEN	GREEN	0	128	128	
		WHITE	WHITE	255	255	255	

Current Page No.: 1 | Total Page No.: 1+ | Zoom Factor: 100%

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.

Item Code: MXP_ITEM Matrix Item

Customer No.:

Prepack Code:

Description:

Enter quantities by: Columns

	S	XL	L	XXXL	XXL
WHITE	.00	.00	.00	.00	.00
BL_LT	.00	.00	.00	.00	.00
YELL	.00	.00	.00	.00	.00
RED	.00	.00	.00	.00	.00
GREEN	.00	.00	.00	.00	.00
GR_LT	.00	.00	.00	.00	.00
BLUE	.00	.00	.00	.00	.00
GRAY	.00	.00	.00	.00	.00
BLACK	.00	.00	.00	.00	.00

Accept Cancel Delete

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:

SAP Prepack Code Maintenance (MXD) 5/14/2015

Item Code: MXP_ITEM Matrix Item
 Customer No.: 01-ABF American Business Futures

Prepack Code: LSIZE
 Description: L_Size Items Enter quantities by: Columns

	S	XL	L	XXXL	XXL
WHITE	.00	.00	4.00	.00	.00
BL_LT	.00	.00	5.00	.00	.00
YELL	.00	.00	2.00	.00	.00
RED	.00	.00	3.00	.00	.00
GREEN	.00	.00	5.00	.00	.00
GR_LT	.00	.00	5.00	.00	.00
BLUE	.00	.00	6.00	.00	.00
GRAY	.00	.00	3.00	.00	.00
BLACK	.00	.00	4.00	.00	.00

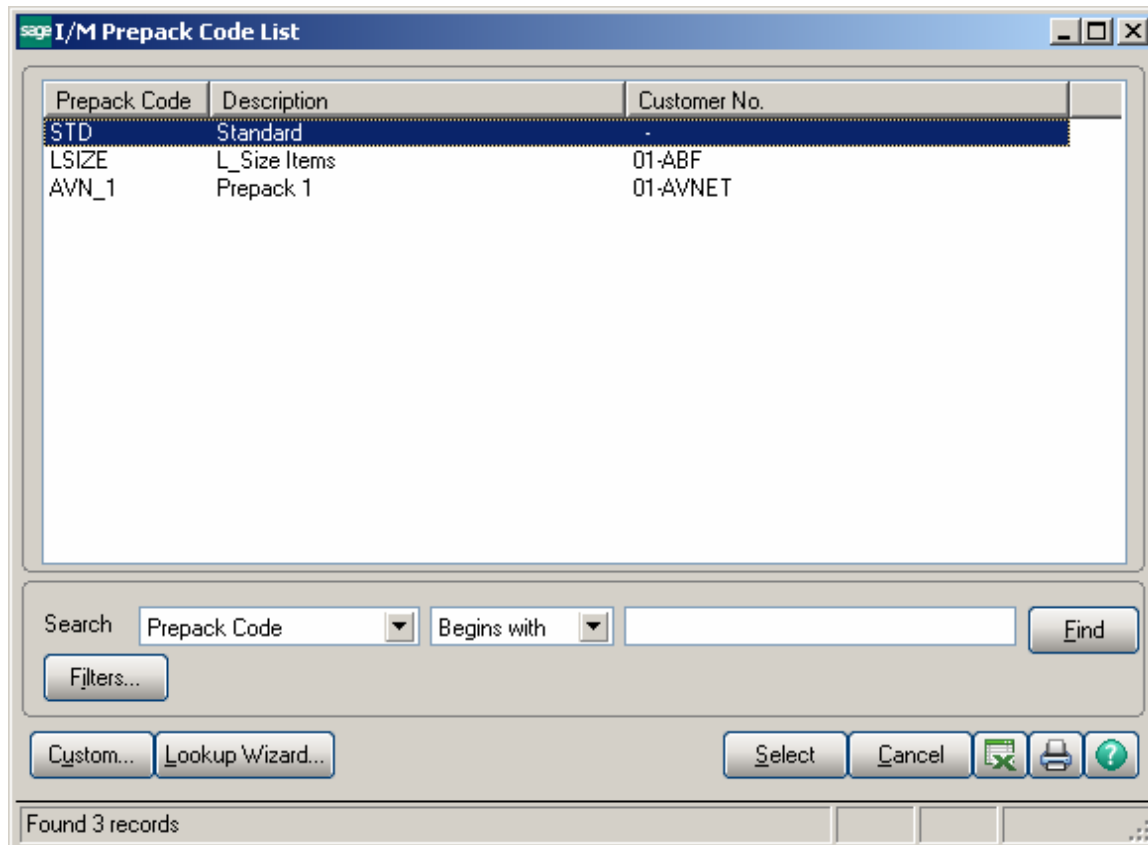
Accept Cancel Delete

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, and 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 opens the **Prepack Code Inquiry** screen where 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.

The screenshot shows a software window titled "sage Matrix Item UPC Maintenance (MXD) 5/14/2015". At the top, there are input fields for "Item Code" (MXP_ITEM), "UCC Code" (123456), and "Auto Next No." (000230). Below these is a table with 17 rows. The first column is a numeric index (1-17), the second is "Matrix Lot" (e.g., S WHITE, XL BL_LT), and the third is "UPC" (e.g., 01234560001941). A tooltip "Assign UPC, Alt-X" is positioned over the table. At the bottom, there are buttons for "Auto", "Accept", "Cancel", "Delete", and a printer icon.

	Matrix Lot	UPC
1	S WHITE	01234560001941
2	S BL_LT	01234560001958
3	S YELL	01234560001965
4	S RED	01234560001972
5	S GREEN	01234560001989
6	S GR_LT	01234560001996
7	S BLUE	01234560002009
8	S GRAY	01234560002016
9	S BLACK	01234560002023
10	XL WHITE	01234560002115
11	XL BL_LT	01234560002122
12	XL GR_LT	01234560002139
13	L WHITE	01234560002030
14	L BL_LT	01234560002047
15	L YELL	01234560002054
16	L RED	01234560002061
17	L GREEN	01234560002078

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

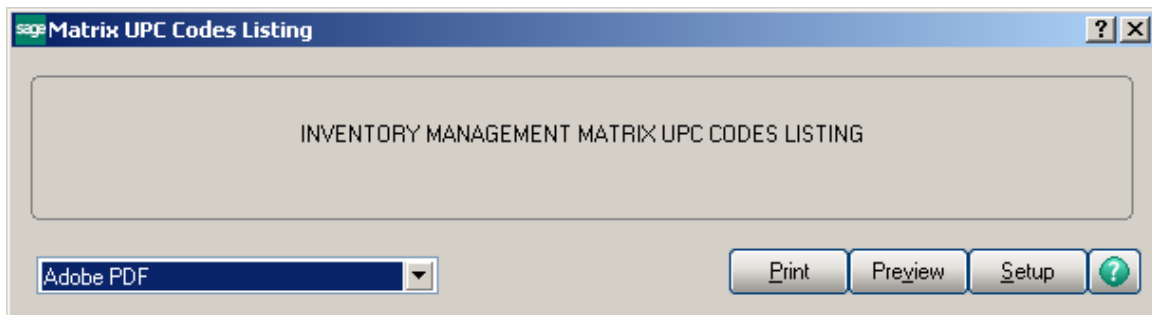
- this button allows loading the System Matrix Codes setup in the system.

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:

Item Code	Description Matrix Lot	UPC
MXP_ITEM	Matrix Item	
	L BLACK	01234560002108
	L BL_LT	01234560002047
	L GRAY	01234560002092
	L GREEN	01234560002078
	L GR_LT	01234560002085
	L RED	01234560002061
	L WHITE	01234560002030
	L YELL	01234560002054
	M BLACK	01234560002191
	M BLUE	01234560002207
	M BL_LT	01234560002214
	M GRAY	01234560002221
	M GREEN	01234560002238
	M GR_LT	01234560002245
	M RED	01234560002252
	M WHITE	01234560002269
	M YELL	01234560002276
	S BLACK	01234560002023
	S BLUE	01234560002009
	S BL_LT	01234560001958
	S GRAY	01234560002016
	S GREEN	01234560001989
	S GR_LT	01234560001996
	S RED	01234560001972
	S WHITE	01234560001941
	S YELL	01234560001965
	XL BL_LT	01234560002122
	XL GR_LT	01234560002139
	XL WHITE	01234560002115
XXL BL LT	01234560002146	

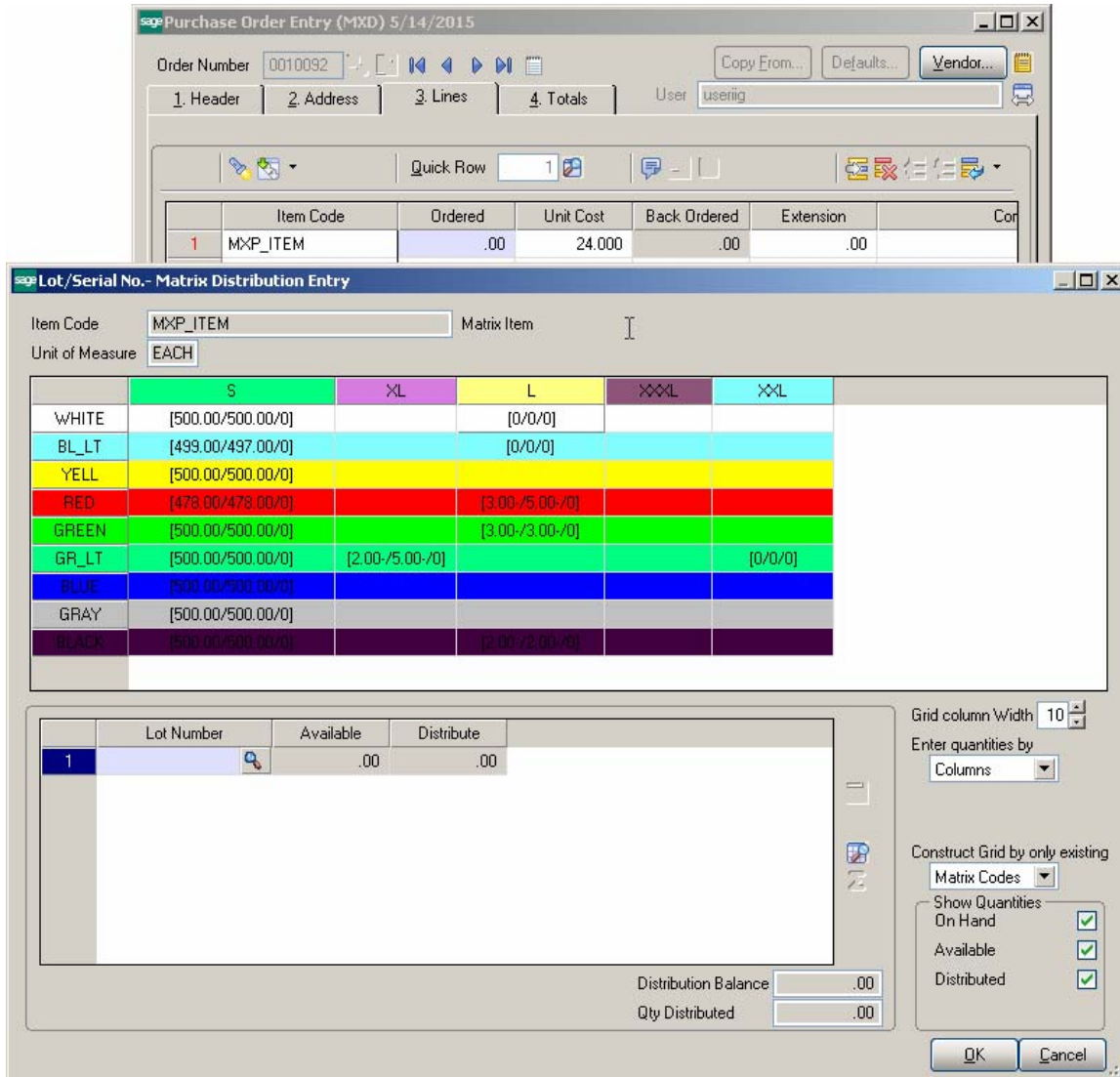
Matrix Distribution

Purchase Order Entry

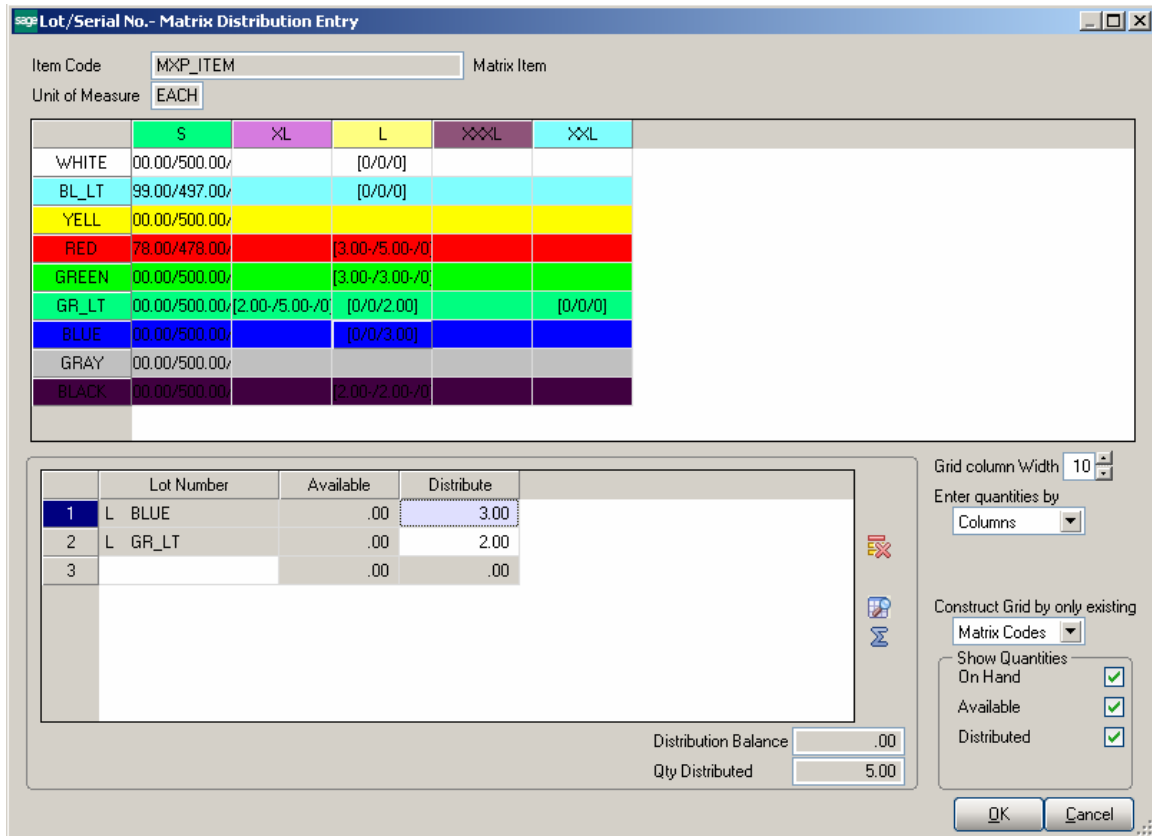
Select the **Purchase Order Entry** program under the Purchase Order Main menu.

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 Matrix Distribution in **Purchase Order Entry** is enabled in the **Matrix Options**, the following **Lot/Serial No.-Matrix Distribution Entry** screen is popup:



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.

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 screenshot displays two overlapping windows from the Sage software. The top window, titled "Receipt of Goods Entry (MXD) 5/14/2015", shows a receipt number of 001060 and a table with columns: Item Code, Ordered, Received, Unit Cost, Extension, and Comm. The bottom window, titled "Lot/Serial No.- Matrix Distribution Entry", is for Item Code MXP_TEST and Unit of Measure EACH. It features a color-coded grid for Matrix Codes (S, L, XL, XXL, XXXL) and Lot Numbers (WHITE, BL_LT, YELL, RED, GREEN, GR_LT, BLUE, GRAY, BLACK). A table below the grid shows Lot Number 1 with Available and Distribute values of .00. The bottom right contains checkboxes for "Show Quantities On Hand", "Available", and "Distributed", all checked, and fields for "Distribution Balance" and "Qty Distributed", both set to .00.

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.

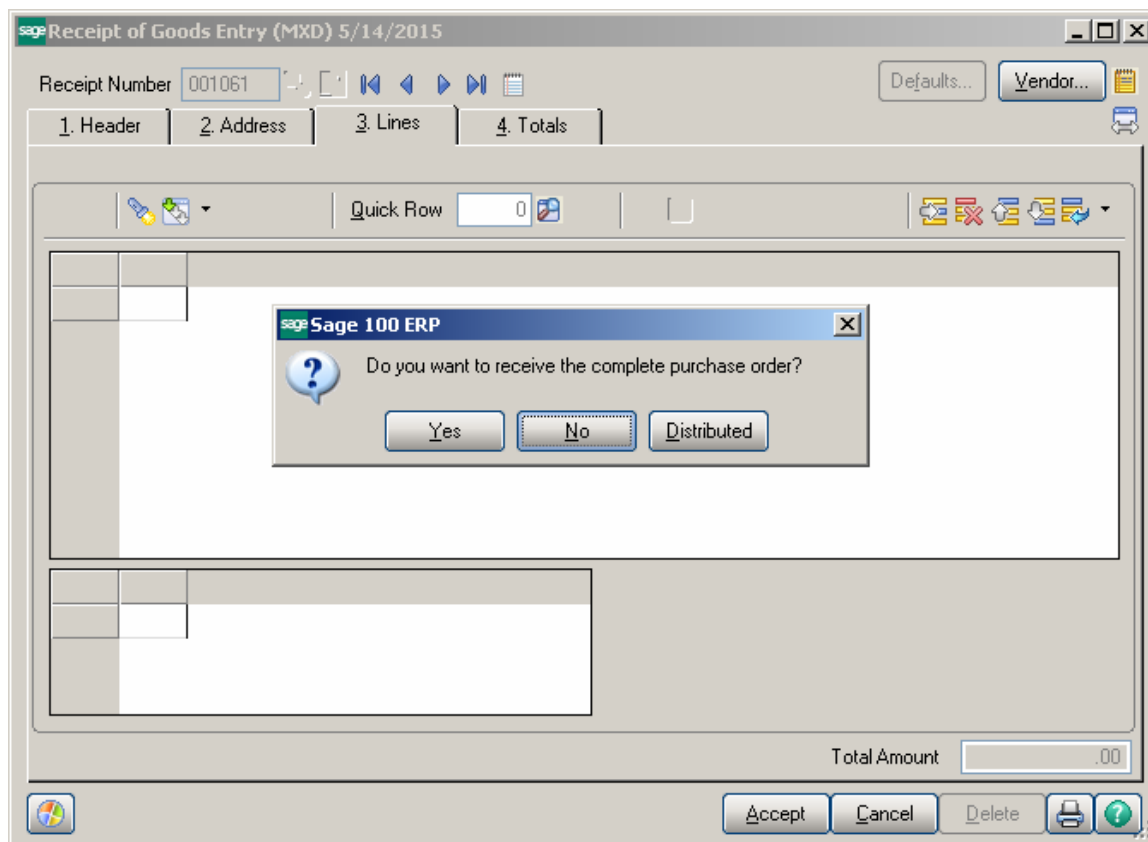
The **Scanning** check box determines that the Lot Number field is being used for scanning UPC Codes. The corresponding Lot Number will be selected in the list and in the Grid. If the check box is cleared, the entered number is treated as regular Lot Number.

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:



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.

Item Code	Ordered	Received	Unit Cost	Extension	Comm
1 MXP_ITEM	5.00	5.00	24.000	120.00	
2 MXP_TEST	38.00	20.00	.000	.00	
3	.00	.00	.000	.00	

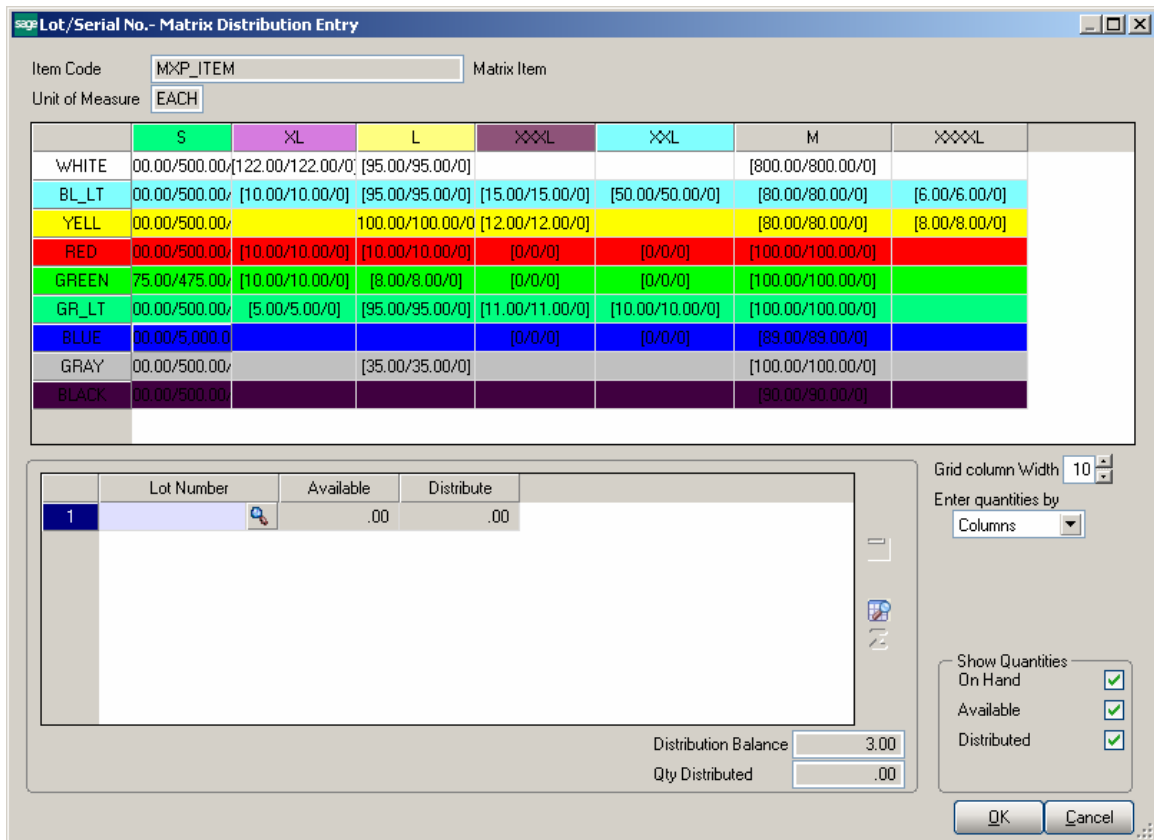
Warehouse	000
Unit of Measure	EACH
Back Ordered	18.00
Required Date	5/14/2015

Total Amount: 120.00

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**.*

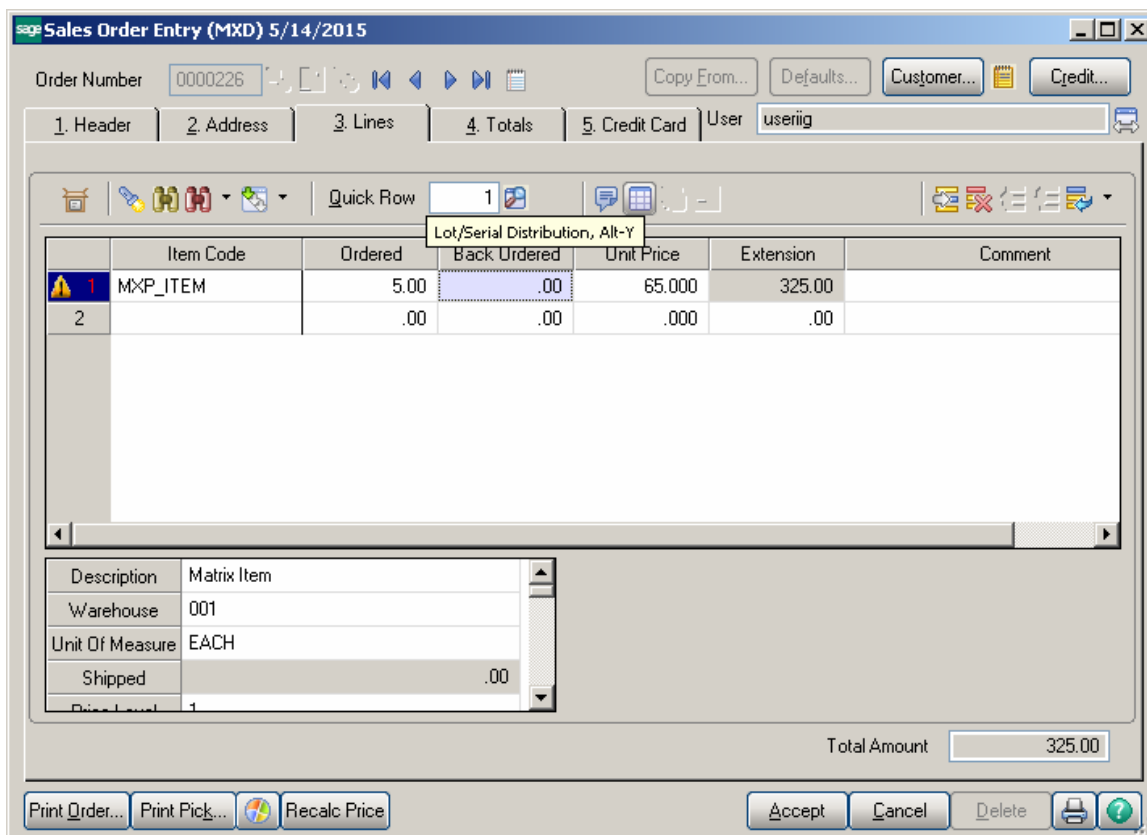
When running the **Return Order Register/Update** program checking is performed by **Qty On Hand** and error log is printed to prevent the user from updating the journal if the total **Qty Returned** for some lot number by Warehouse exceeds the **Qty On Hand** for it.

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.

On the Lines tab enter a matrix item.

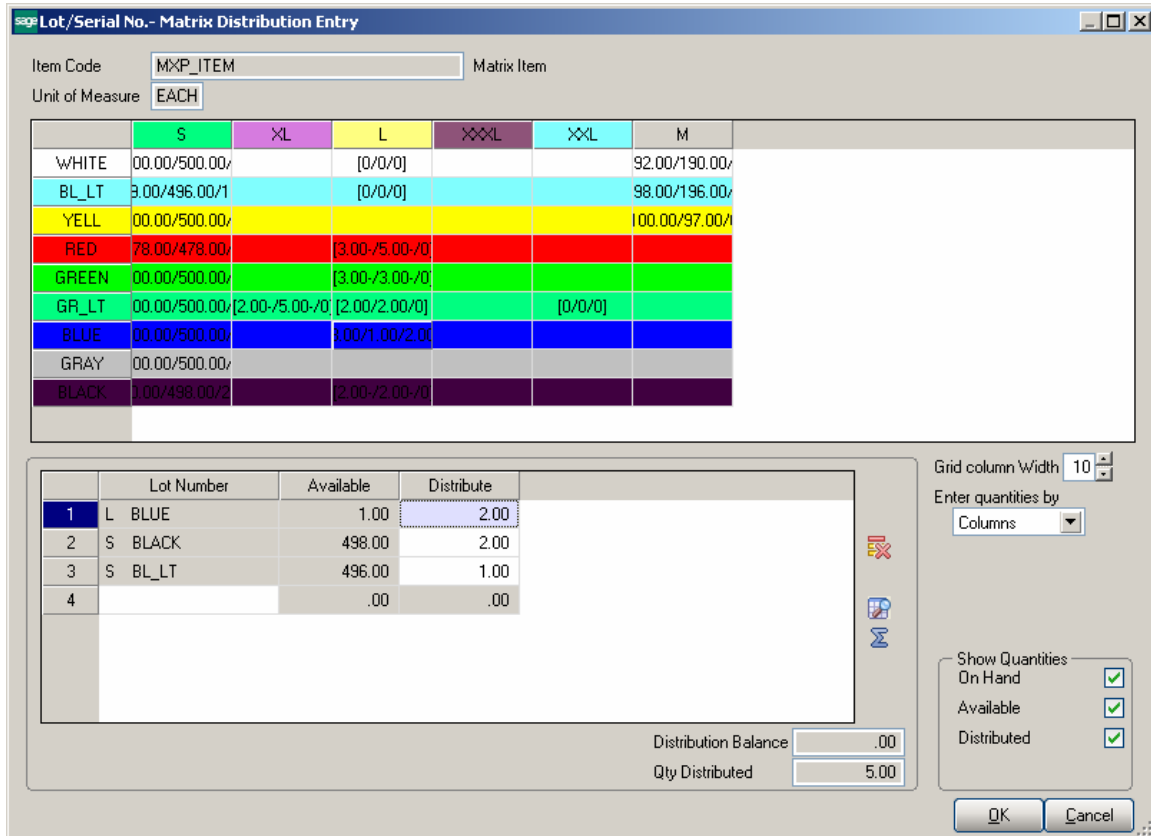


The quantity should be distributed in the **Matrix Distribution** screen, which is similar to the screen in the **Receipt of Goods** program.

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 **Qty 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.

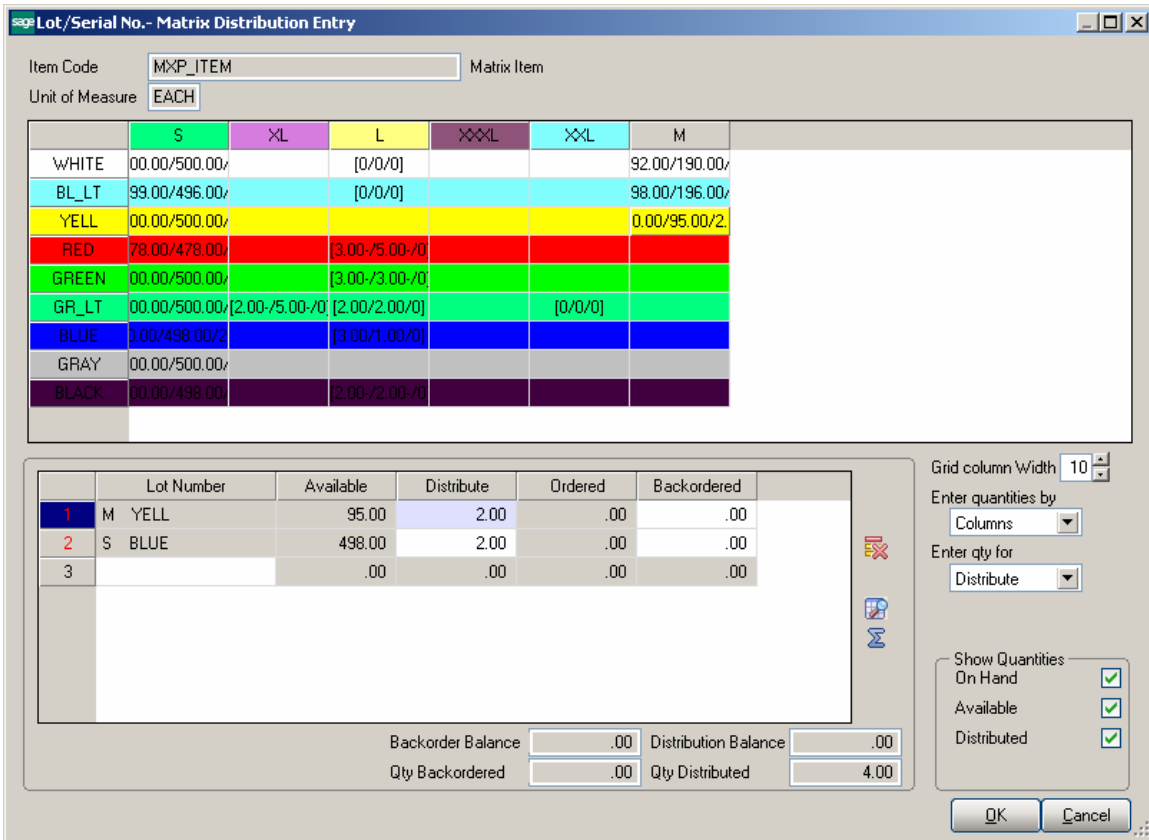
Matrix distribution entered for the Price Quote is preserved when converting to Standard Order.

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, and 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.

Here is the distribution in Sales Order Entry:

Item Code: MXP_ITEM Matrix Item
Unit of Measure: EACH

	S	XL	L	XXXL	XXL	M
WHITE	0.00/496.00/4		[0/0/0]			2.00/188.00/2
BL_LT	99.00/496.00/		[0/0/0]			98.00/196.00/
YELL	00.00/500.00/					100.00/97.00/
RED	78.00/478.00/		3.00-/5.00-/0			
GREEN	3.00/495.00/5		3.00-/3.00-/0			
GR_LT	00.00/500.00/	2.00-/5.00-/0	2.00/0/2.00		[0/0/0]	
BLUE	00.00/500.00/		3.00/1.00/0			
GRAY	00.00/500.00/					
BLACK	00.00/498.00/		2.00-/2.00-/0			

	Lot Number	Available	Distribute
1	L GR_LT	.00	2.00
2	M WHITE	188.00	2.00
3	S GREEN	495.00	5.00
4	S WHITE	496.00	4.00
5		.00	.00

Distribution Balance: .00
Qty Distributed: 13.00

Show Quantities:
On Hand
Available
Distributed

Here is the Order invoiced:

SAP S/O Invoice Data Entry (MXD) 5/14/2015

Invoice No. 0100123

1. Header | 2. Address | 3. Lines | 4. Totals | 5. Credit Card

	Item Code	Ordered	Shipped	Unit Price	Extension	Comment
1	MXP_ITEM	13.00	8.00	65.000	520.00	
2		.00	.00	.000	.00	

Quick Row 1

Description	Matrix Item
Warehouse	001
Unit Of Measure	EACH
Back Ordered	5.00
Price Level	1

Total Amount 520.00

Quick Print | Accept | Cancel | Delete

	S	XL	L	XXXL	XXL	M
WHITE	0.00/496.00/3		[0/0/0]			2.00/188.00/2
BL_LT	99.00/496.00/		[0/0/0]			98.00/196.00/
YELL	00.00/500.00/					100.00/97.00/
RED	78.00/478.00/		[3.00/-5.00/-0]			
GREEN	0.00/495.00/2		[3.00/-3.00/-0]			
GR_LT	00.00/500.00/	2.00/-5.00/-0	[2.00/0/1.00]		[0/0/0]	
BLUE	00.00/500.00/		[3.00/1.00/0]			
GRAY	00.00/500.00/					
BLACK	00.00/498.00/		2.00/-2.00/-0			

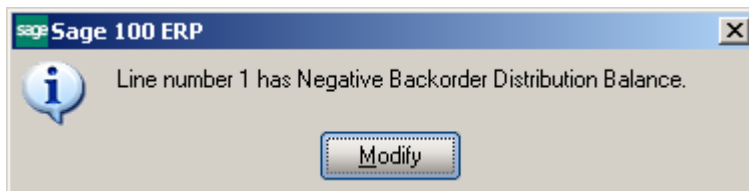
	Lot Number	Available	Distribute	Ordered	Backordered
1	L GR_LT	.00	1.00	2.00	1.00
2	M WHITE	188.00	2.00	2.00	.00
3	S GREEN	495.00	2.00	5.00	3.00
4	S WHITE	496.00	3.00	4.00	1.00
5		.00	.00	.00	.00

Backorder Balance: .00 Distribution Balance: .00
 Qty Backordered: 5.00 Qty Distributed: 8.00

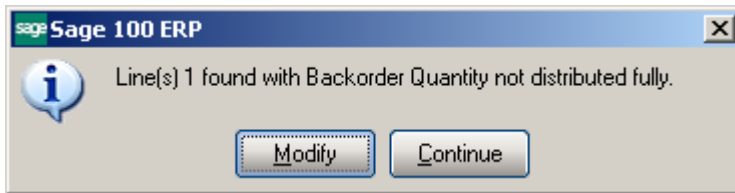
The Backorder quantity may be entered manually as well as calculated automatically upon entering the Distributed quantity. Upon entering the distributed quantity, backordered quantity is automatically calculated as follows: “Qty Ordered – Qty Distributed”.

- 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 (with the Sales Order Matrix Lot distribution preserved) created in a result of Sales Journal Update when the Order is partially shipped:

The screenshot shows two SAP windows. The top window is 'Sales Order Entry (MXD) 5/14/2015' with Order Number 0000227. The bottom window is 'Lot/Serial No.- Matrix Distribution Entry' for Item Code MXP_ITEM and Unit of Measure EACH. It displays a matrix of sizes and colors with their respective quantities and prices. Below the matrix is a table for distribution quantities.

Item Code	Ordered	Back Ordered	Unit Price	Extension	Comment
1 MXP_ITEM	13.00	5.00	65.000	325.00	

Item Code	Unit of Measure	S	XL	L	XXXL	XXL	M
WHITE	EACH	7.00/496.00/1		[0/0/0]			90.00/188.00/
BL_LT	EACH	99.00/496.00/		[0/0/0]			98.00/196.00/
YELL	EACH	00.00/500.00/					100.00/97.00/
RED	EACH	78.00/478.00/		3.00/75.00/0			
GREEN	EACH	3.00/495.00/3		3.00/73.00/0			
GR_LT	EACH	00.00/500.00/	2.00/75.00/0	[1.00/0/1.00]		[0/0/0]	
BLUE	EACH	00.00/500.00/		3.00/71.00/0			
GRAY	EACH	00.00/500.00/					
BLACK	EACH	00.00/499.00/		1.00/72.00/0			

Lot Number	Available	Distribute
1 L GR_LT	.00	1.00
2 S GREEN	495.00	3.00
3 S WHITE	496.00	1.00
4	.00	.00

Distribution Balance: .00
Qty Distributed: 5.00

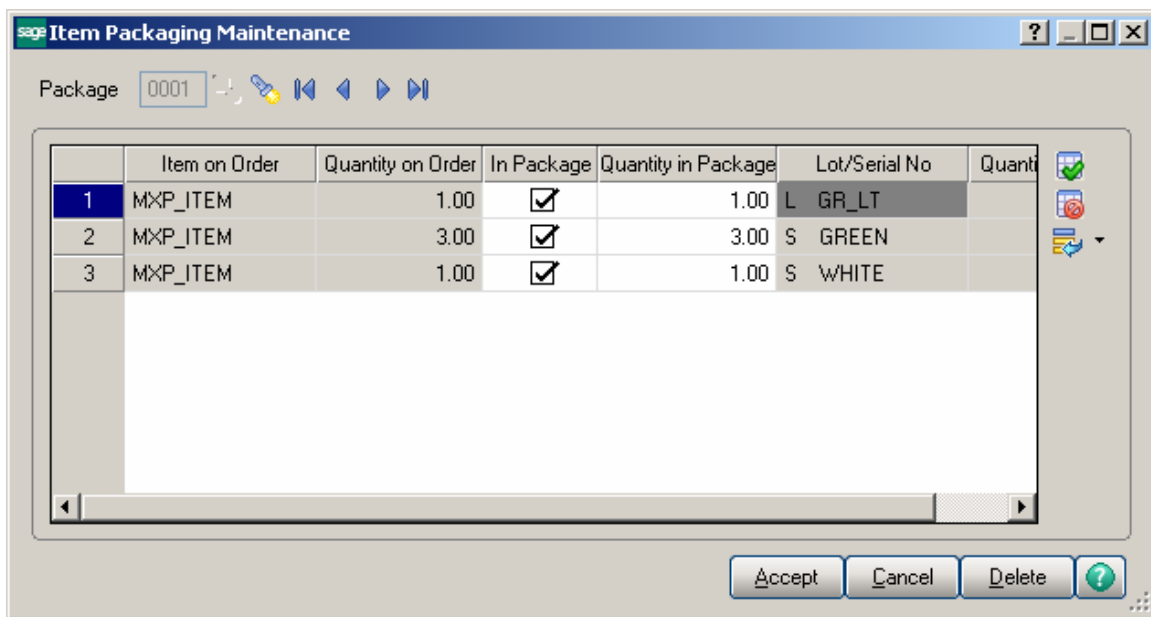
The distribution in the created backorder is done based on the backordered quantities entered in the Invoice Matrix Distribution screen.

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.



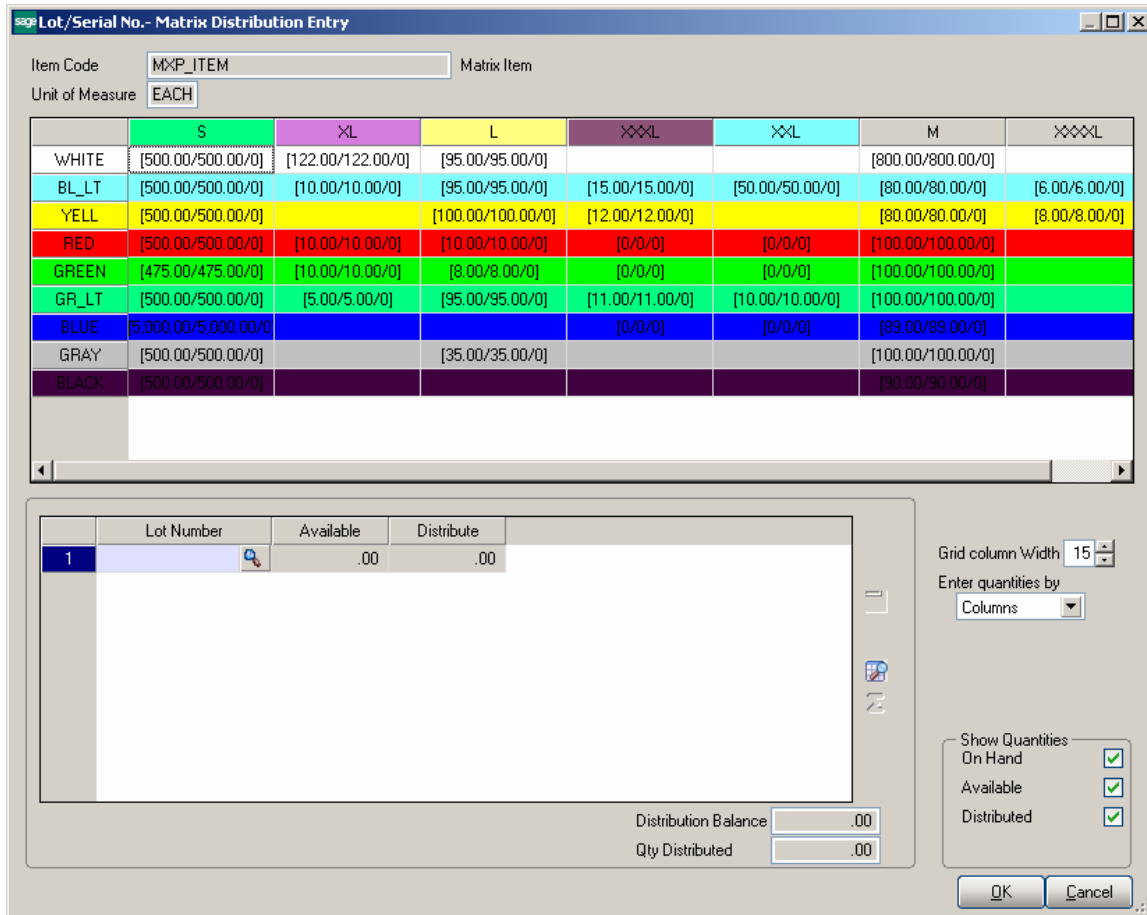
Inventory Transaction Entry

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

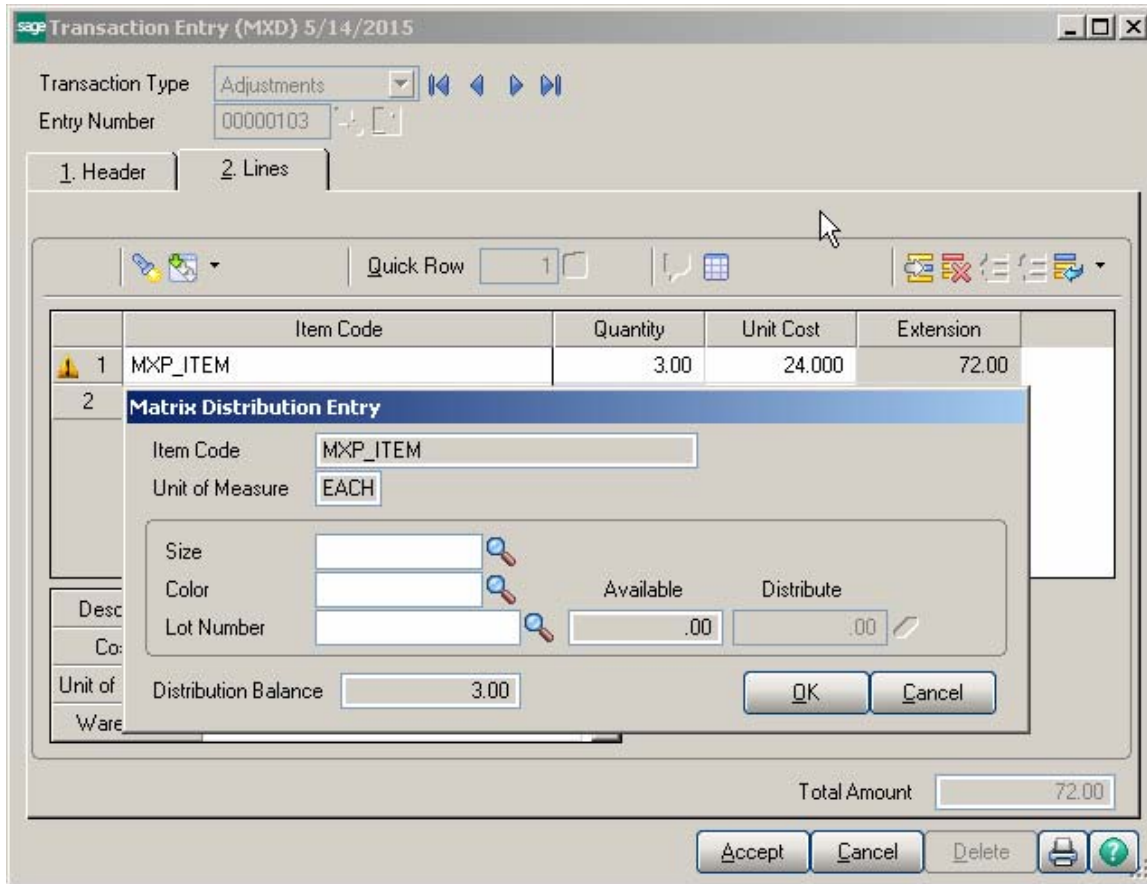
The Matrix Distribution screen is the same for Sales, Transfers, and Receipts transaction Types.

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.

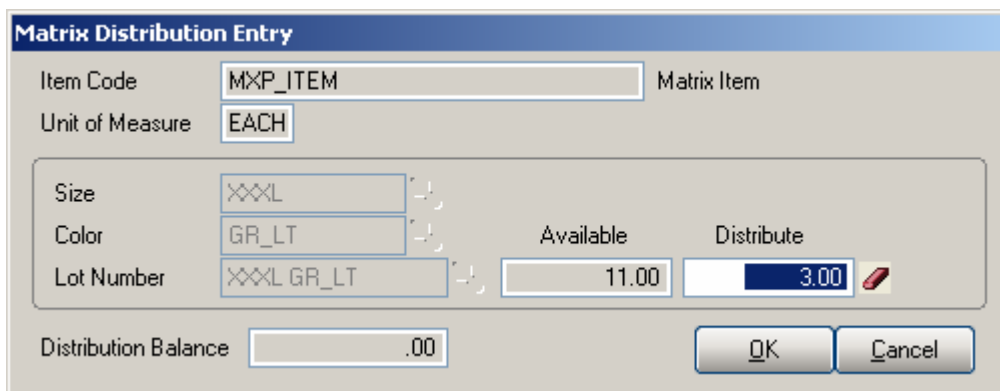
The Matrix Distribution screen is similar to the screen in the Sales Order Entry program.



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.



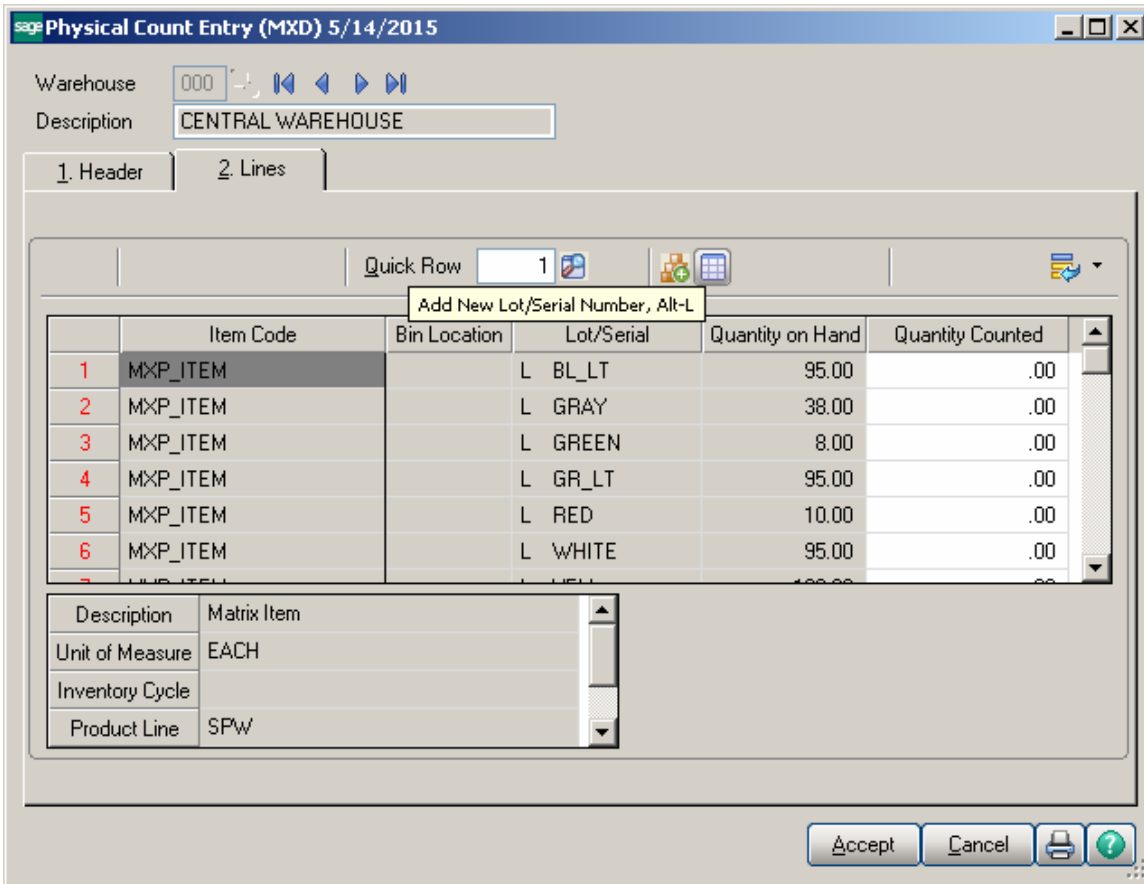
The user may select the Size and Color code to create the Lot Number automatically or specify an existing Lot Number.



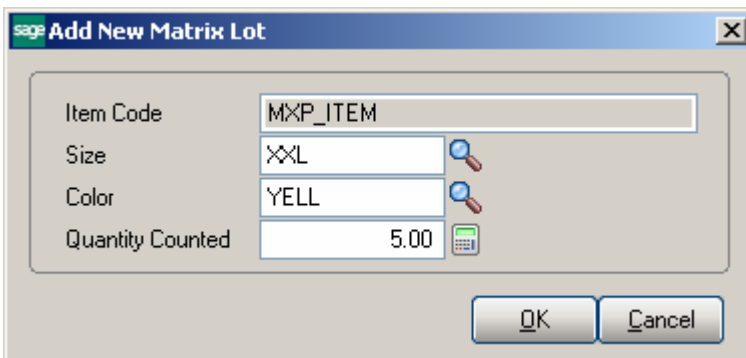
During the Transaction Register Update, checking is performed by the Matrix item Lot Committed Qty by warehouse and error log is printed to prevent the user from updating transaction journal if the Qty Committed in the I/M Transactions for some lot number by Warehouse exceeds the **Qty On Hand** for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

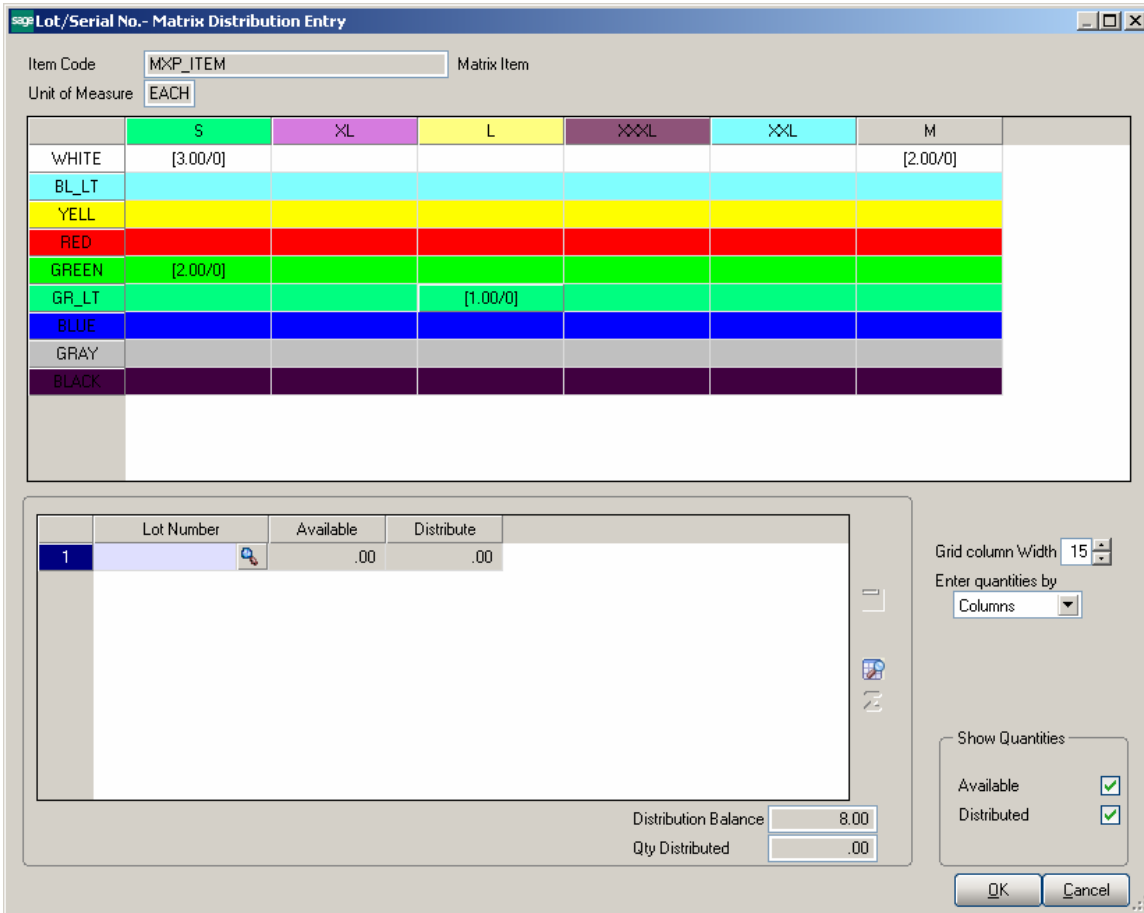


Enter Codes of the first and second Categories, which descriptions are displayed. You can enter new Matrix Codes, or enter/select existing Matrix Code from the lookup.

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.

The screenshot shows the Sage Production Entry (MXD) 5/14/2015 window. The window title bar includes the Sage logo and the text "Production Entry (MXD) 5/14/2015". The main area contains several input fields and controls:

- Production Number: 0000018
- Production Date: 5/14/2015
- Bill Number: MXP_BILL
- Bill Type: Standard
- Revision: 000
- Option Code: (empty)
- Quantity: 2.00
- Unit of Measure: EACH
- Parent Warehouse: 000 CENTRAL WAREHOUSE
- Component Warehouse: 000 CENTRAL WAREHOUSE
- Explode Sub-Assemblies:
- Matrix button (highlighted with a blue box)
- Auto Distribute Lines:

At the bottom of the window, there is a status bar with buttons for Accept, Cancel, Delete, and a help icon.

The **Matrix** button is available only for Bill Items flagged as Matrix Item in the Item Maintenance. This button enables distribution of Bill Item by Matrix Lots:

Item Code: MXP_BILL Matrix Item

Unit of Measure: EACH

	S	L	XL	XXL	XXXL
WHITE					
YELL					
RED					
GREEN		[0/2.00]			
BLUE					
BLACK					

	Lot Number	Available	Distribute
1	L GREEN	.00	2.00
2		.00	.00

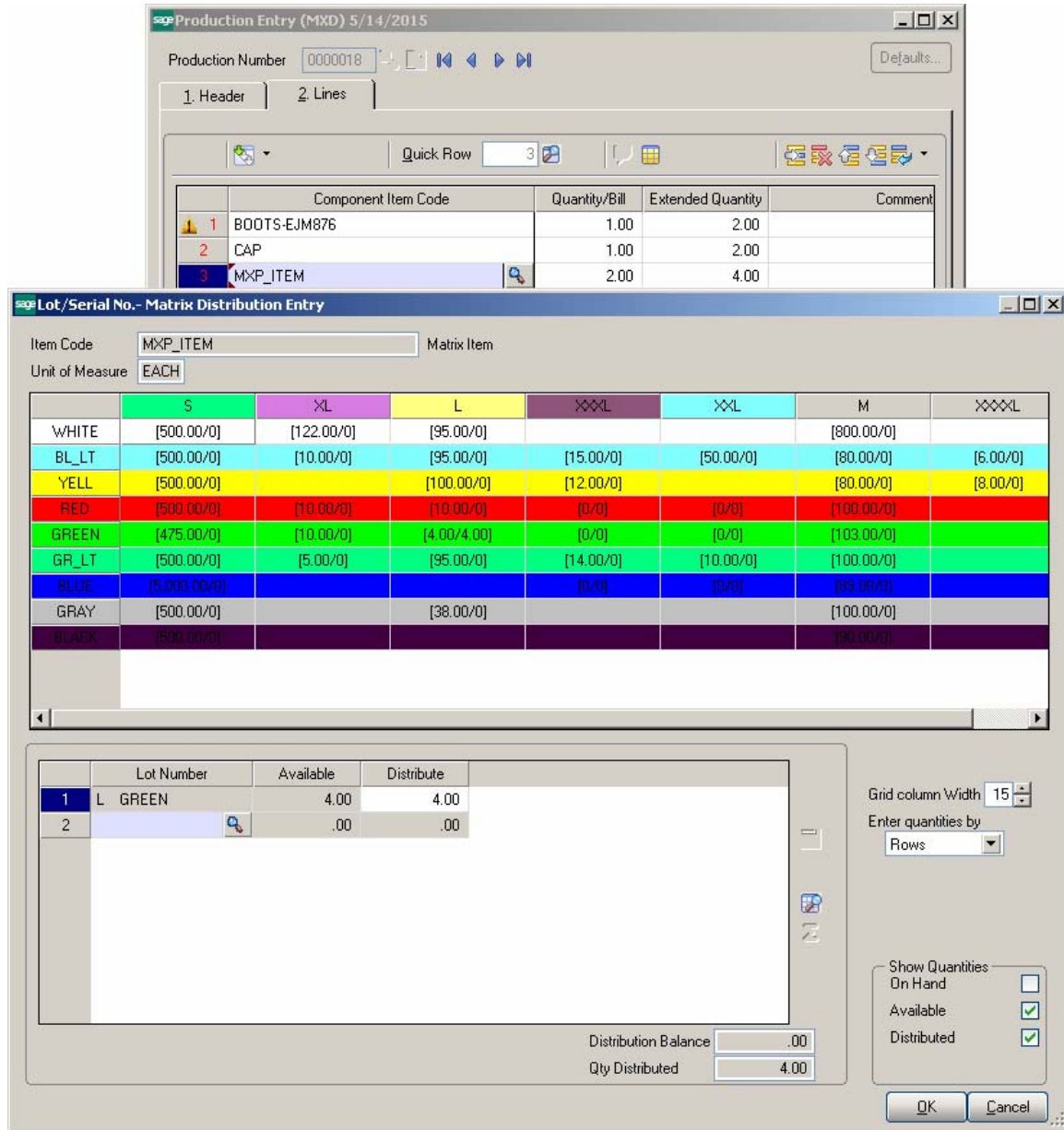
Distribution Balance: 2.00
Qty Distributed: .00

Grid column Width: 15
Enter quantities by: Rows
Show Quantities:
On Hand:
Available:
Distributed:

OK Cancel

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.

sage Disassembly Entry (MXD) 5/15/2015

Disassembly Number 0000004 Defaults...

1. Header 2. Lines

Disassembly Date 5/15/2015 Distribute...

Bill Number MXP_BILL Matrix Item

Bill Type Standard

Revision 000

Option Code

Quantity 1.00

Unit of Measure EACH

Parent Warehouse 000

Component Warehouse 000

Disassembly Type Produced Item

Explode Sub-Assemblies

Accept Cancel Delete

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

sage Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP_BILL Matrix Item

Unit of Measure: EACH

	S	L	XL	XXL	XXXL
WHITE					
YELL					
RED					
GREEN		[1.00/1.00]			
BLUE					
BLACK					

	Lot Number	Available	Distribute
1	L GREEN	1.00	1.00
2		.00	.00

Distribution Balance: 1.00
Qty Distributed: .00

Grid column Width: 15
Enter quantities by: Rows

Show Quantities:
On Hand:
Available:
Distributed:

OK Cancel

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.

Bill of Materials Maintenance (MXD) 5/15/2015

Bill Number: MXP_BILL
 Revision: 000
 Bill Type: Standard
 Description 1: Matrix Item
 Description 2:

1. Header | 2. Lines

Quick Row: 3

	Component Item Code	Revision	Step No.	Quantity/Bill	
1	CAP	*		2.00	
2	BOOTS-EJM876			1.00	
3	MXP_ITEM	*		2.00	
4	T-SHRT			1.00	
5				.00	

Predefined Distribution - Alt+Y

Description	MXP
Find No.	
Unit Of Measure	EACH
Cost Account	

Accept Cancel Delete

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

Bill Number: MXP_BILL Matrix Item

Item Code: MXP_ITEM Matrix Item

Bill Lot No.: L BLACK

Component Lot Number	Quantity
1	.00

Balance: 2.00 Quantity: 2.00

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** (so that **Balance** at the bottom of the screen is zero), to use the **Predefined Distribution** feature effectively.

sage Predefined Distribution Maintenance

Bill Number: MXP_BILL Matrix Item

Item Code: MXP_ITEM Matrix Item

Bill Lot No.: L BLACK

	Component Lot Number	Quantity
1	L BLACK	1.00
2	L WHITE	1.00
3		.00

Balance: .00 Quantity: 2.00



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.

sage Predefined Distribution Maintenance

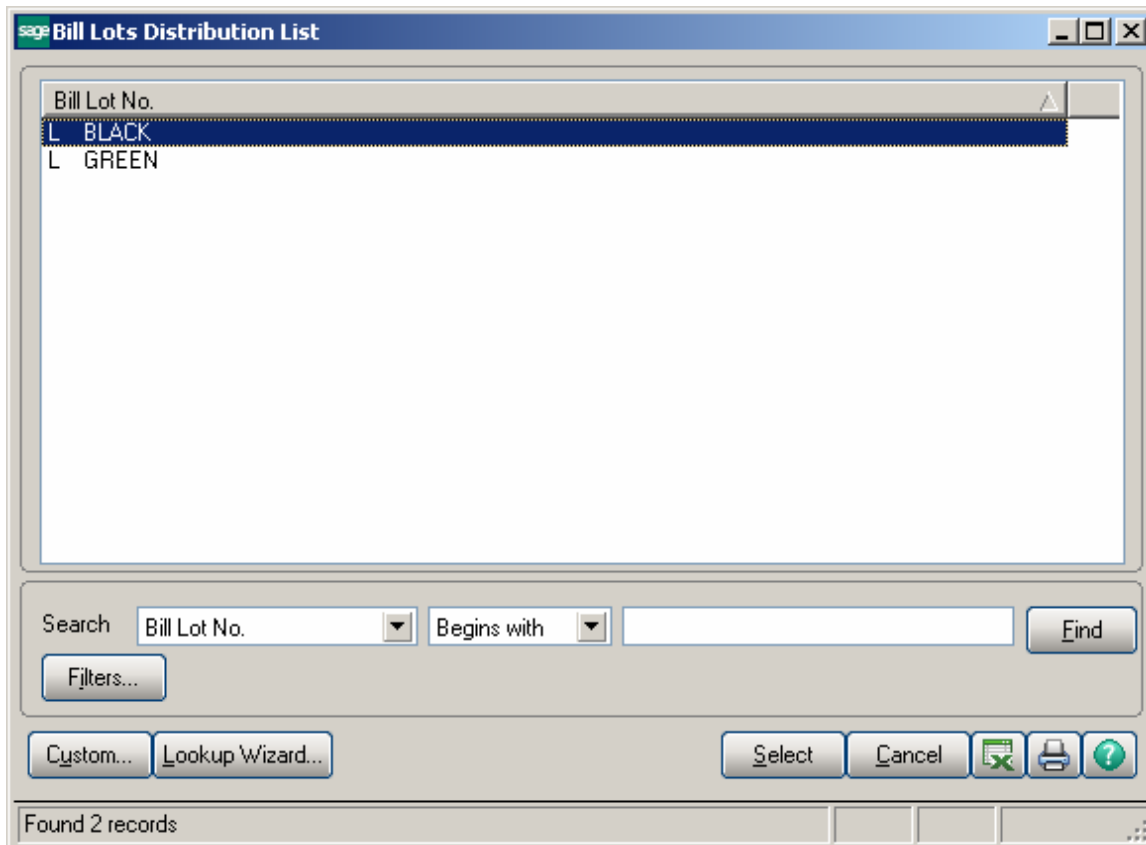
Bill Number Matrix Item

Item Code Matrix Item

Bill Lot No.  

	Component	Existing Bill Lots List	Quantity
1	L BLACK		1.00
2	L WHITE		1.00
3			.00

Balance Quantity



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.

Sage Purchase Order Inquiry (MXD) 5/15/2015

Order Number: 0010096 Copy From... Defaults... Vendor...

1. Header 2. Address 3. Lines 4. Totals User: useriig

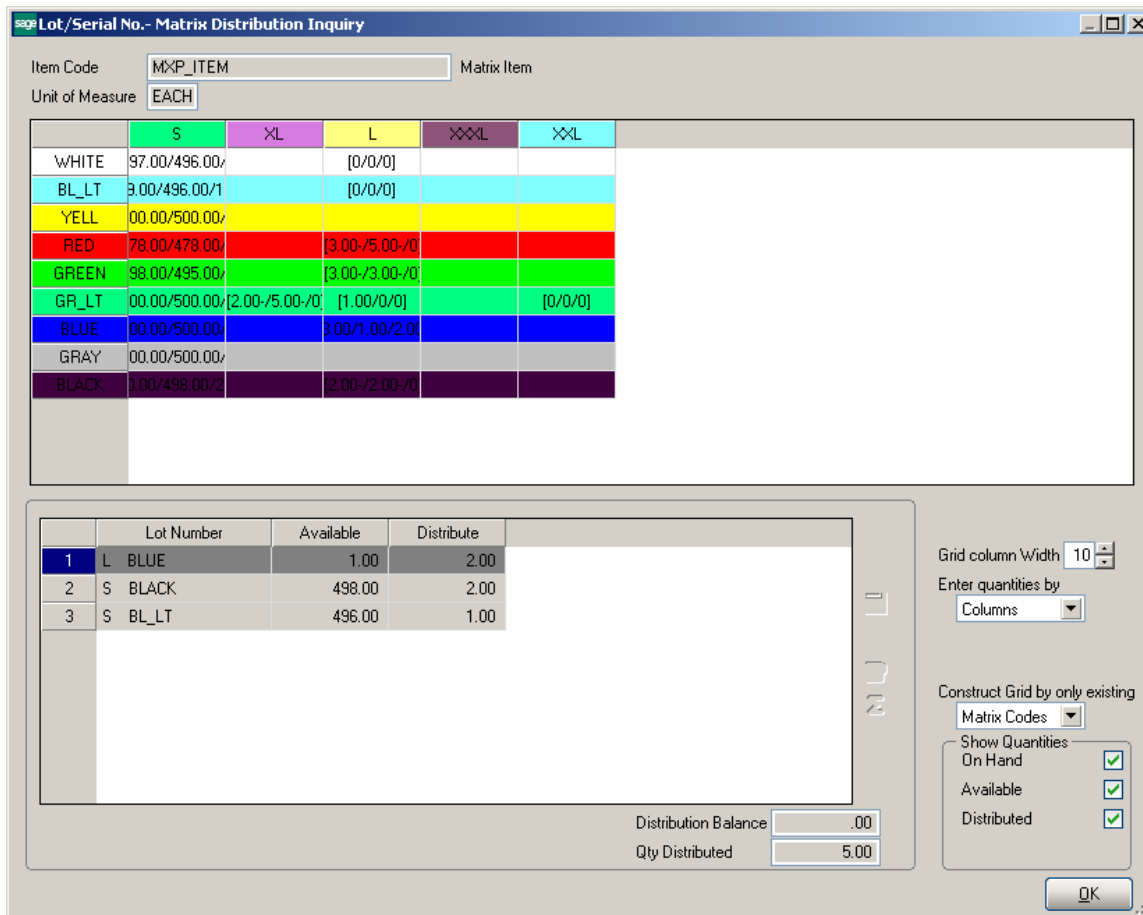
Quick Row: 1 Lot/Serial Distribution, Alt-J

	Item Code	Ordered	Unit Cost	Back Ordered	Extension	Cor
1	MXP_ITEM	5.00	24.000	.00	120.00	

Description	Matrix Item
Warehouse	001
Unit of Measure	EACH
Qty Received	.00

Total Amount: 120.00

Quick Print... OK Print Help



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.

Matrix Sales History Report (MXD) 5/15/2015

Report Setting: STANDARD Save

Description: Matrix Sales History Report

Setting Options

Type: Public Print Report Settings Number of Copies: 1

Default Report: Three Hole Punch: Collated:

Calendar Years

All Years: Starting: 2014 Ending: 2015 Include Ship-to Detail:

Product Types to Print

All Types: Finished Goods: Raw Materials: Discontinued:

Procurement Types to Print

All Types: Make: Buy: Subcontract: Print Inactive Items:

Data to Print

Quantity Sold: Gross Profit Percent: Quantity Returned:

Dollars Sold: Cost of Goods Sold:

Selections

Select Field	Operand	Value
COLOR	All	
SIZE	All	
STYLE	All	
CATALOGUE REF#	All	
Matrix Size	Range	L XL
Matrix Color	Range	BLACK YELL

Adobe PDF Keep Window Open After Print Preview Print Preview Setup

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
Year Range: From: 2014 To: 2015

MX Demo Compar

Item Code	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
MXP_ITEM	Matrix Item		Prod Line: SPW			Prod Type: RawMaterial		UM: EACH				
Year: 2014												
Quantity Sold :	3	0	0	0	0	0	0	0	0	0	0	0
Dollars Sold :	195	0	0	0	0	0	0	0	0	0	0	0
Gross Profit Percent :	100.00%	0.00%	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	0	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	L	Color	BLACK									
Customer Number:	01-ABF American Business Futures											
Year: 2014												
Quantity Sold :	2	0	0	0	0	0	0	0	0	0	0	0
Dollars Sold :	130	0	0	0	0	0	0	0	0	0	0	0
Gross Profit Percent :	63.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cost of Goods Sold :	48	0	0	0	0	0	0	0	0	0	0	0
Quantity Returned :	0	0	0	0	0	0	0	0	0	0	0	0
Total For Item: MXP_ITEM Matrix Item												
Quantity Sold :	10	3	0	0	26	0	0	0	0	0	0	0
Dollars Sold :	650	195	0	0	1,690	0	0	0	0	0	0	0
Gross Profit Percent :	92.62%	63.08%	0.00%	0.00%	65.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cost of Goods Sold :	48	72	0	0	576	0	0	0	0	0	0	0
Quantity Returned :	0	0	0	0	2	0	0	0	0	0	0	0

Current Page No.: 2 Total Page No.: 2 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.

Report Setting: STANDARD

Description: Matrix Stock Status Report

Setting Options:

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

Sort Report By: Item Code

Options:

- Print Zero Balances:
- Print Lot Numbers with Zero Qty:
- Include Qty on PO in Qty Available:

Product Types to Print:

- All Types:
- Finished Goods:
- Raw Materials:
- Discontinued:

Procurement Types to Print:

- All Types:
- Make:
- Buy:
- Subcontract:
- Print Inactive Items:

Select Field	Operand	Value
Item Code	All	
Product Line	All	
Primary Vendor Number	All	
Item Description	All	
Inventory Cycle	All	

Adobe PDF | Keep Window Open After Print Preview | Print | Preview | Setup

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

Main Report

Matrix Stock Status Report
Sorted by Item Code (MXD)

Item Code /Description Primary Vendor Number	Product Line	Product Type	Unit Of Measure	Whea	Size	Color	Quantity		Reorder Point	Average Cost			
							On Hand	Available					
BELT-WIDE WIDE BELT 02-BROWN	SPW	Finished Good	EACH	000	STD	GREEN	3.00	8.00	Cycle: 0.00	388.000			
					STD	WHITE	3.00	8.00					
					Warehouse 000 Total:		6.00	16.00					
Item BELT-WIDE Total:							6.00	16.00	0.00				
BLINKERS BLINKERS 01-CONT	SPW	Finished Good	EACH	000	S	WHITE	0.00	0.00	Cycle: 0.00	33.420			
					M	WHITE	0.00	0.00					
					M	GR_LT	8.00	8.00					
					M	RED	2.00	2.00					
					L	GREEN	5.00	5.00					
					XL	GR_LT	2.00	2.00					
					XL	RED	5.00	5.00					
					XL	GREEN	8.00	8.00					
					Warehouse 000 Total:		30.00	30.00					
						001	S	WHITE			0.00	3.00	0.00
						001	S	RED			0.00	0.00	0.00
	001	L	WHITE	3.00	8.00	0.00							
	001	XL	WHITE	0.00	1.00	0.00							
	001	XL	RED	0.00	4.00	0.00							
Warehouse 001 Total:		3.00	16.00										
Item BLINKERS Total:							27.00	14.00	0.00				
CAP CAP 01-CONT	SPW	Finished Good	EACH	000	S	WHITE	4.00	4.00	Cycle: 0.00	11.592			
					S	RED	12.00	22.00					
					L	WHITE	0.00	3.00					
					L	GREEN	12.00	21.00					
					XL	WHITE	2.00	0.00					
						001	S	RED			0.00	1.00	0.00
						001	L	WHITE			0.00	6.00	0.00
Warehouse 000 Total:		30.00	44.00										
Warehouse 001 Total:		0.00	7.00										
Item CAP Total:							30.00	37.00	0.00				
MXP2_ITEM Matrix 01-STEV	SPW	Finished Good	EACH	000	S	WHITE	180.00	180.00	Cycle: 0.00	20.000			
					S	RED	200.00	200.00					
					S	GREEN	200.00	200.00					
					L	WHITE	400.00	400.00					
					Warehouse 000 Total:		980.00	980.00					
						001	S	WHITE			10.00	20.00	0.00
						001	S	RED			33.00	33.00	0.00
						001	S	GREEN			50.00	50.00	0.00
						001	L	WHITE			50.00	50.00	0.00
						001	L	RED			90.00	90.00	0.00
						001	XL	WHITE			1.00	8.00	0.00
Warehouse 001 Total:		212.00	197.00										
Item MXP2_ITEM Total:							1,192.00	1,177.00	0.00				

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

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

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	
CAP CAP		SPW	Finished Good	EACH	000	Cycle : 0.00	11.993	
01-CONT								
			SMALL	LARGE	EXTRA LAF	EXTRA EXT	THE LARGE	Total
WHITE	On Hand	4.00	2.00	2.00	0.00	0.00	8.00	
	Available	4.00	1.00	0.00	0.00	0.00	5.00	
YELLOW	On Hand	0.00	0.00	5.00	5.00	0.00	10.00	
	Available	0.00	0.00	5.00	5.00	0.00	10.00	
RED	On Hand	12.00	0.00	5.00	0.00	0.00	17.00	
	Available	22.00	0.00	5.00	0.00	0.00	27.00	
GREEN	On Hand	0.00	10.00	0.00	0.00	0.00	10.00	
	Available	0.00	18.00	0.00	0.00	0.00	18.00	
BLUE	On Hand	7.00	4.00	5.00	7.00	0.00	23.00	
	Available	7.00	0.00	10.00	7.00	0.00	24.00	
BLACK	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	
	Available	0.00	0.00	0.00	0.00	0.00	0.00	
Total	On Hand	23.00	16.00	17.00	12.00	0.00	68.00	
	Available	33.00	19.00	20.00	12.00	0.00	84.00	
001								0.00
			SMALL	LARGE	EXTRA LAF	EXTRA EXT	THE LARGE	Total
WHITE	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Available	0.00	6.00-	0.00	0.00	0.00	6.00-	0.00
YELLOW	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Available	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RED	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Available	1.00-	0.00	0.00	0.00	0.00	1.00-	0.00
GREEN	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Available	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLUE	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Available	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLACK	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Available	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	On Hand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Available	1.00-	6.00-	0.00	0.00	0.00	7.00-	0.00
002								0.00

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.

Report Setting: STANDARD [Save]

Description: Matrix Committed Report

Setting Options:

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

Sort Report By: Item Code

Options:

- Print Zero Balances:
- Print Lot Numbers with Zero Qty:

Product Types to Print:

- All Types:
- Finished Goods:
- Raw Materials:
- Discontinued:

Procurement Types to Print:

- All Types:
- Make:
- Buy:
- Subcontract:

Selections:

Select Field	Operand	Value	
STYLE	All		
CATALOGUE REF#	All		
Matrix Size	Range	L	XXL
Matrix Color	Range	BLACK	YELL

Adobe PDF [Keep Window Open After Print Preview] [Print] [Preview] [Setup]

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:

Item Code/Description	Primary Vendor	Product Line	Product Type	Unit of Measure	Warehouse	Size	Color	On Hand	On Purchase Order	On Sales Order	Quantity	Other Committed	Available
											Average Cost : 388.030		
BELT-WIDE WIDE BELT													
02-BROWN	SPW		Finished Good	EACH	000								
						STD	BLACK	8.00	1.00	1.00	0.00	0.00	7.00
						STD	BLUE	3.00	4.00	1.00	0.00	0.00	2.00
						STD	GREEN	3.00	5.00	0.00	0.00	0.00	3.00
						STD	WHITE	3.00	5.00	0.00	0.00	0.00	3.00
						Warehouse 000 Total:		17.00	15.00	2.00	0.00	0.00	15.00
					001								
						STD	BLACK	20.00	0.00	0.00	0.00	0.00	20.00
						STD	BLUE	1.00	2.00	0.00	1.00	0.00	2.00
						Warehouse 001 Total:		21.00	2.00	0.00	1.00	0.00	22.00
						Item BELT-WIDE Total:		4.00	17.00	2.00	1.00	0.00	7.00
											Average Cost : 33.420		
BLINKERS BLINKERS													
01-CONT	SPW		Finished Good	EACH	000								
						S	WHITE	0.00	1.00	1.00	0.00	0.00	1.00
						S	RED	0.00	2.00	0.00	0.00	0.00	0.00
						S	BLACK	2.00	0.00	0.00	0.00	0.00	2.00
						M	WHITE	0.00	2.00	2.00	0.00	0.00	2.00
						M	BL_LT	4.00	0.00	0.00	0.00	0.00	4.00
						M	YELL	5.00	2.00	0.00	0.00	0.00	5.00
						M	GR_LT	8.00	0.00	0.00	0.00	0.00	8.00
						M	RED	2.00	0.00	0.00	0.00	0.00	2.00
						M	BLUE	0.00	3.00	0.00	0.00	0.00	0.00
						M	GREEN	0.00	1.00	0.00	0.00	0.00	0.00
						M	BLACK	0.00	2.00	0.00	0.00	0.00	0.00
						L	YELL	6.00	0.00	0.00	0.00	0.00	6.00
						L	BLUE	0.00	2.00	0.00	0.00	0.00	0.00
						L	GREEN	5.00	1.00	0.00	0.00	0.00	5.00
						L	BLACK	3.00	1.00	3.00	2.00	0.00	2.00
						XL	YELL	3.00	0.00	0.00	0.00	0.00	3.00
						XL	GR_LT	2.00	0.00	0.00	0.00	0.00	2.00
						XL	GRAY	1.00	0.00	0.00	0.00	0.00	1.00
						XL	RED	5.00	0.00	0.00	0.00	0.00	5.00
						XL	GREEN	8.00	1.00	0.00	0.00	0.00	8.00
						Warehouse 000 Total:		54.00	18.00	6.00	2.00	0.00	46.00
					001								
						S	WHITE	0.00	0.00	2.00	1.00	0.00	3.00
						S	RED	0.00	1.00	0.00	0.00	0.00	1.00
						L	WHITE	3.00	0.00	0.00	5.00	0.00	8.00
						L	BLUE	2.00	0.00	0.00	0.00	0.00	2.00

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.

Inventory Valuation Report

Main Report

Inventory Valuation Report
Sorted by Item Code

MXDemo Company (MXD)

Item Code Line	Product Type	Item Description Valuation	Unit of Measure	Whse	Lot/Serial Number	Receipt Number	Receipt Date	Quantity On Hand	Unit Cost	Inventory Value
MXD ITEM	SPW	Raw Material	Lot							
			EACH	000						
					Color BL_LT	00000016	10/13/2009	95.00	24.000	2,280.00
					Color GRAY	00000016	10/13/2009	38.00	24.000	912.00
					Color GREEN		2/28/2014	4.00	24.000	96.00
					Color GR_LT	00000016	10/13/2009	96.00	24.000	2,304.00
					Color RED		2/28/2014	10.00	24.000	240.00
					Color WHITE	00000016	10/13/2009	95.00	24.000	2,280.00
					Color YELL	00000016	10/13/2009	100.00	24.000	2,400.00
					Color BLACK	00000016	10/13/2009	90.00	24.000	2,160.00
					Color BLUE	00000016	10/13/2009	89.00	24.000	2,136.00
					Color BL_LT	00000016	10/13/2009	80.00	24.000	1,920.00
					Color GRAY	00000016	10/13/2009	100.00	24.000	2,400.00
					Color GREEN	00000016	10/13/2009	104.00	24.000	2,496.00
					Color GR_LT	00000016	10/13/2009	100.00	24.000	2,400.00
					Color RED	00000016	10/13/2009	100.00	24.000	2,400.00
					Color WHITE	00000016	10/13/2009	800.00	24.000	19,200.00
					Color YELL	00000016	10/13/2009	80.00	24.000	1,920.00
					Color BLACK	00000016	10/13/2009	500.00	24.000	12,000.00
					Color BLUE	00000016	10/13/2009	5,000.00	24.000	120,000.00
					Color BL_LT	00000016	10/13/2009	500.00	24.000	12,000.00
					Color GRAY	00000016	10/13/2009	500.00	24.000	12,000.00
					Color GREEN	00000016	10/13/2009	475.00	24.000	11,400.00
					Color GR_LT	00000016	10/13/2009	500.00	24.000	12,000.00
					Color RED	00000016	10/13/2009	500.00	24.000	12,000.00
					Color WHITE	00000016	10/13/2009	500.00	24.000	12,000.00
					Color YELL	00000016	10/13/2009	500.00	24.000	12,000.00
					Color BL_LT	G001044	8/27/2010	10.00	24.000	240.00
					Color GREEN		2/28/2014	11.00	27.236	299.60
					Color GR_LT	G001044	8/27/2010	5.00	24.000	120.00
					Color RED		2/28/2014	10.00	24.000	240.00
					Color WHITE	G001044	8/27/2010	122.00	24.000	2,928.00
					Color BL_LT	G001044	8/27/2010	50.00	24.000	1,200.00
					Color GR_LT	G001044	8/27/2010	10.00	24.000	240.00
					Color BL_LT	G001044	8/27/2010	15.00	24.000	360.00
					Color GR_LT	G001044	8/27/2010	14.00	24.000	336.00
					Color YELL	G001044	8/27/2010	12.00	24.000	288.00
					Color BL_LT	G001044	8/27/2010	6.00	24.000	144.00
					Color YELL	G001044	8/27/2010	8.00	24.000	192.00
					Item Warehouse 000 Total:			11,229.00	24.003	269,531.60
				001	Color BLACK			2.00	24.000	48.00

Current Page No.: 1 Total Page No.: 2 Zoom Factor: 100%

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.

The screenshot shows the 'Open Orders By Matrix Item Report (MXD) 5/15/2015' window. The interface includes the following sections:

- Report Setting:** STANDARD (with a search icon) and a Save button.
- Description:** Open Orders By Matrix Item Report
- Setting Options:**
 - Type: Public (dropdown)
 - Print Report Settings:
 - Number of Copies: 1 (spinner)
 - Default Report:
 - Three Hole Punch:
 - Collated:
- Print Report By:** Salesperson (dropdown)
- Sort Report By:** Item Code (dropdown)
- Sales Order Types to Print:**
 - All Types:
 - Standard Orders:
 - Back Orders:
- Print Summary Report:**
- Selections:**

Select Field	Operand	Value
Item Code	All	
Product Line	All	
Warehouse	All	
Salesperson	All	
- Bottom Section:**
 - Adobe PDF (dropdown)
 - Keep Window Open After:
 - Print:
 - Preview:
 - Buttons: Print, Preview, Setup

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:

Open Orders By Matrix Item Report
For Order Types: All

MX Demo Company (MXD)

Salesperson		Description				Customer Number/Name	Whse	Quantity				Extension
Item Code	Order No	Type	Order Date	Promise Date	Ordered			Shipped	Back Ordered	Net Order		
01-0100 Jim Kentlev												
BELT-WIDE		WIDE BELT				Product Line: SPW	UM: EACH					
0000184	Std		2/6/2009	2/6/2009	01-ABF	000	2.00	0.00	0.00	2.00	50.00	
	Size: STD				Color: BLACK							
	Size: STD				Color: BLUE							
0000219	Back		12/3/2013	12/3/2013	01-ABF	001	2.00	1.00	1.00	1.00	25.00	
	Size: STD				Color: BLUE							
Item BELT-WIDE Total:							4.00	1.00	1.00	3.00	75.00	
BLINKERS		BLINKERS				Product Line: SPW	UM: EACH					
0000174	Back	S	5/12/2003	5/12/2003	01-ABF	001	6.00	4.00	2.00	2.00	160.00	
	Size: S				Color: WHITE							
	Size: XL				Color: WHITE							
0000184	Std	L	2/6/2009	2/6/2009	01-ABF	000	3.00	0.00	0.00	3.00	240.00	
	Size: L				Color: BLACK							
0000184	Std	L	2/6/2009	2/6/2009	01-ABF	001	2.00	0.00	0.00	2.00	0.00	
	Size: XL				Color: RED							
0000186	Back	L	6/24/2009	6/24/2009	01-ABF	000	3.00	2.00	1.00	1.00	80.00	
	Size: L				Color: BLACK							
0000187	Std	S	6/24/2009	6/24/2009	01-ABF	001	4.00	0.00	0.00	4.00	320.00	
	Size: S				Color: WHITE							
	Size: XL				Color: RED							
0000188	Back	L	6/24/2009	6/24/2009	01-ABF	001	10.00	5.00	5.00	5.00	400.00	
	Size: L				Color: WHITE							
0000219	Back	L	12/3/2013	12/3/2013	01-ABF	000	3.00	2.00	1.00	1.00	80.00	
	Size: L				Color: BLACK							
0000220	Std	L	2/28/2014	2/28/2014	01-ABF	000	3.00	0.00	0.00	3.00	240.00	
	Size: S				Color: WHITE							
	Size: M				Color: WHITE							
0000221	Std	S	2/28/2014	2/28/2014	01-ABF	001	3.00	0.00	0.00	3.00	240.00	
	Size: S				Color: RED							
	Size: XL				Color: WHITE							
Item BLINKERS Total:							37.00	13.00	9.00	24.00	1,760.00	

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 150%

Here is an example of the summary report printout:

Open Orders By Matrix Item Report

Main Report

Open Orders By Matrix Item Report
For Order Types: All

MXDemo Company (M00)

Salesperson				Quantity				
Item Code	Description			Ordered	Shipped	Back Ordered	Net Order	Item Total
01-0100 Jim Kertley								
BELT-WIDE	WIDE BELT	Prod-SPW	U/M: EACH	4.00	1.00	1.00	3.00	75.00
BLINKERS	BLINKERS	Prod-SPW	U/M: EACH	37.00	13.00	9.00	24.00	1,760.00
BOOTS-EJM876	TENNIS BOOTS	Prod-SPW	U/M: EACH	4.00	0.00	0.00	4.00	300.00
CAP	CAP	Prod-SPW	U/M: EACH	29.00	2.00	7.00	27.00	625.00
MXP_ITEM	Matrix Item	Prod-SPW	U/M: EACH	46.00	14.00	9.00	32.00	1,960.00
MXP2_ITEM	Matrix	Prod-SPW	U/M: EACH	65.00	30.00	5.00	35.00	2,900.00
T-SHIRT	T-SHIRT	Prod-SPW	U/M: EACH	12.00	0.00	2.00	12.00	570.00
Salesperson 01-0100 Total:				197.00	60.00	33.00	137.00	7,690.00
01-0200 Shelly Westband								
BLINKERS	BLINKERS	Prod-SPW	U/M: EACH	3.00	0.00	0.00	3.00	0.00
BOOTS-EJM876	TENNIS BOOTS	Prod-SPW	U/M: EACH	5.00	0.00	0.00	5.00	300.00
CAP	CAP	Prod-SPW	U/M: EACH	13.00	3.00	7.00	10.00	175.00
T-SHIRT	T-SHIRT	Prod-SPW	U/M: EACH	11.00	0.00	8.00	11.00	520.00
Salesperson 01-0200 Total:				32.00	3.00	15.00	29.00	995.00
02-0300 Harvey Earwright								
BOOTS-EJM876	TENNIS BOOTS	Prod-SPW	U/M: EACH	5.00	0.00	0.00	5.00	750.00
CAP	CAP	Prod-SPW	U/M: EACH	4.00	0.00	0.00	4.00	112.00
T-SHIRT	T-SHIRT	Prod-SPW	U/M: EACH	5.00	4.00	1.00	1.00	65.00
Salesperson 02-0300 Total:				14.00	4.00	1.00	10.00	927.00
02-0400 Ginny Hernandez								
BOOTS-EJM876	TENNIS BOOTS	Prod-SPW	U/M: EACH	2.00	0.00	0.00	2.00	300.00
Salesperson 02-0400 Total:				2.00	0.00	0.00	2.00	300.00
Report Total:				245.00	67.00	49.00	178.00	9,912.00

Current Page No.: 1 Total Page No.: 1 Zoom Factor: 100%

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).

Report Setting: STANDARD

Description: Open Orders By Matrix Lot Report

Setting Options:

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

Print Report By: Item Code

Sort Report By: Item Code

Sales Order Types to Print:

- All Types:
- Standard Orders:
- Back Orders:

Select Field	Operand	Value
Item Code	All	
Warehouse	All	
Salesperson	All	
Matrix Size	Range	L XXXL
Matrix Color	All	

Keep Window Open After: Print Preview

Buttons: Print, Preview, Setup

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

Open Orders By Matrix Lot Report

Main Report

Open Orders By Matrix Lot Report
For Order Types: All

MXDemo Company (MDD)

Salesperson No / Name									
Item Code/Description	Color	Order No.	Type	Ord. Date	Customer Number/Name	Product Line /SPW	U/M:	Whse	Quantity Ordered
MXP ITEM Matrix Item									
0000226	Std	5/14/2015		01-ABF American Business Futures		U/M: EACH		001	2.00
L	GRAY	5/15/2015	Std	01-ABF American Business Futures				001	2.00
								000	2.00
								001	2.00
									21.00
Item MXP ITEM Total:									
MXP2 ITEM Matrix									
0000200	Std	10/13/2009		01-ABF American Business Futures		U/M: EACH		001	10.00
S	WHITE	10/13/2009	Std	01-ABF American Business Futures				001	10.00
S	YELL	10/13/2009	Std	01-ABF American Business Futures				001	5.00
								001	5.00
XL	WHITE	10/13/2009	Std	01-ABF American Business Futures				001	5.00
								001	5.00
									20.00
Item MXP2 ITEM Total:									
T-SHRT T-SHIRT									
0000184	Std	2/9/2009		01-ABF American Business Futures		U/M: EACH		000	2.00
0000231	Std	5/15/2015		01-ABF American Business Futures				000	2.00
L	RED	11/12/2013	Std	01-ABF American Business Futures				001	1.00
								001	1.00
L	BLUE	11/12/2013	Std	01-ABF American Business Futures				001	2.00
								001	2.00
L	BLACK	11/12/2013	Std	01-ABF American Business Futures				001	2.00
0000231	Std	5/15/2015		01-ABF American Business Futures				000	1.00
								001	3.00
									10.00
Item T-SHRT Total:									
Salesperson 01-0100 Total:									
89.00									
01-0200 Shelly Westland									
CAP CAP									
0000189	Back	6/24/2009		01-HILLSB Hillsboro Service Center		U/M: EACH		001	5.00
L	WHITE	6/24/2009	Back	01-HILLSB Hillsboro Service Center				001	5.00
									5.00
Item CAP Total:									
5.00									
T-SHRT T-SHIRT									
0000189	Back	6/24/2009		01-HILLSB Hillsboro Service Center		U/M: EACH		000	3.00
L	GR LT	6/24/2009	Back	01-HILLSB Hillsboro Service Center					3.00
									3.00
Item T-SHRT Total:									
3.00									

Current Page No.: 2 Total Page No.: 2 Zoom Factor: 100%

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

MX Demo Company (MXD)

Item Code/Description	Color	Order No.	Type	Ord. Date	Customer Number/Name	Salesperson No/Name	Whse	Quantity Ordered
BELT-WIDE WIDE BELT								
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								
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
BOOTS-EJM876 TENNIS BOOTS								

Current Page No.: 1 Total Page No.: 2+ Zoom Factor: 125%

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.

Report Setting: STANDARD

Description: Matrix Codes Invoice History Report

Setting Options:

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

Print Summary Report:

Select Field	Operand	Value
Matrix Size	Range	L XXL
Matrix Color	All	
Item Code	All	
Item Description	All	
Invoice Date	All	
Invoice Number	All	
Customer Number	All	
Salesperson	All	

Adobe PDF | Keep Window Open After Print Preview | Print | Preview | Setup

Here is an example of printout for summary report form:

Matrix Codes Invoice History Report		MX Demo Company (MOO)
Item Code / Description		Quantity
BELT-WIDE WIDE BELT		
Size: STD	Color: BLACK	28.00
Size: STD	Color: BLUE	15.00
Size: STD	Color: GREEN	5.00
Size: STD	Color: WHITE	3.00
BLINKERS BLINKERS		
Size: S	Color: BLUE	2.00
Size: M	Color: WHITE	2.00
Size: M	Color: YELL	2.00
Size: M	Color: BLUE	3.00
Size: M	Color: GREEN	2.00
Size: L	Color: WHITE	9.00
Size: L	Color: BLUE	7.00
Size: L	Color: GREEN	2.00
Size: XL	Color: BLUE	1.00
CAP CAP		
Size: S	Color: WHITE	2.00
Size: S	Color: RED	1.00
Size: S	Color: BLACK	1.00
Size: L	Color: WHITE	4.00
Size: L	Color: BLUE	2.00
MXP_ITEM Matrix Item		
Size: S	Color: WHITE	3.00
Size: S	Color: BL_LT	1.00
Size: S	Color: RED	20.00
Size: S	Color: GREEN	2.00
Size: XL	Color: GR_LT	2.00
Size: L	Color: RED	3.00

Current Page No.: 1 Total Page No.: 1 Zoom Factor: 100%

Here is an example of printout for detail report form:

Matrix Codes Invoice History Report

MXDemo Company (MDD)

Item Code/Description	Invoice Number	Invoice Date	Customer Number/Name	Salesperson No / Name	U/M	Quantity
BELT-WIDE WIDE BELT						
Size: STD			Color: BLACK			
0100061	10/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	5.00
0100067	12/25/2003		01-SHEPARD Shepard Motorworks	01-0200 Shelly Westland	EACH	1.00
0100097	10/13/2009		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	20.00
0100099	8/27/2010		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
Size: STD			Color: BLUE			
0100061	10/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	10.00
0100067	12/25/2003		01-SHEPARD Shepard Motorworks	01-0200 Shelly Westland	EACH	1.00
0100070	8/5/2003		02-ORANGE Orange Door & Window Co.	02-0300 Harvey Earlwright	EACH	1.00
0100099	8/27/2010		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
0100114	12/3/2013		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
Size: STD			Color: GREEN			
0100061	10/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
0100067	12/25/2003		01-SHEPARD Shepard Motorworks	01-0200 Shelly Westland	EACH	1.00
0100099	8/27/2010		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
Size: STD			Color: WHITE			
0100061	10/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	3.00
BLINKERS BLINKERS						
Size: S			Color: BLUE			
0100061	10/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
0100064	7/25/2003		01-SHEPARD Shepard Motorworks	01-0200 Shelly Westland	EACH	1.00
Size: M			Color: WHITE			
0100056	12/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
Size: M			Color: YELL			
0100114	12/3/2013		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
Size: M			Color: BLUE			
0100061	10/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
0100064	7/25/2003		01-SHEPARD Shepard Motorworks	01-0200 Shelly Westland	EACH	1.00
Size: M			Color: GREEN			
0100061	10/5/2003		01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
0100072	12/5/2003		01-HILLSB Hillsboro Service Center	01-0200 Shelly Westland	EACH	1.00
Size: L			Color: WHITE			

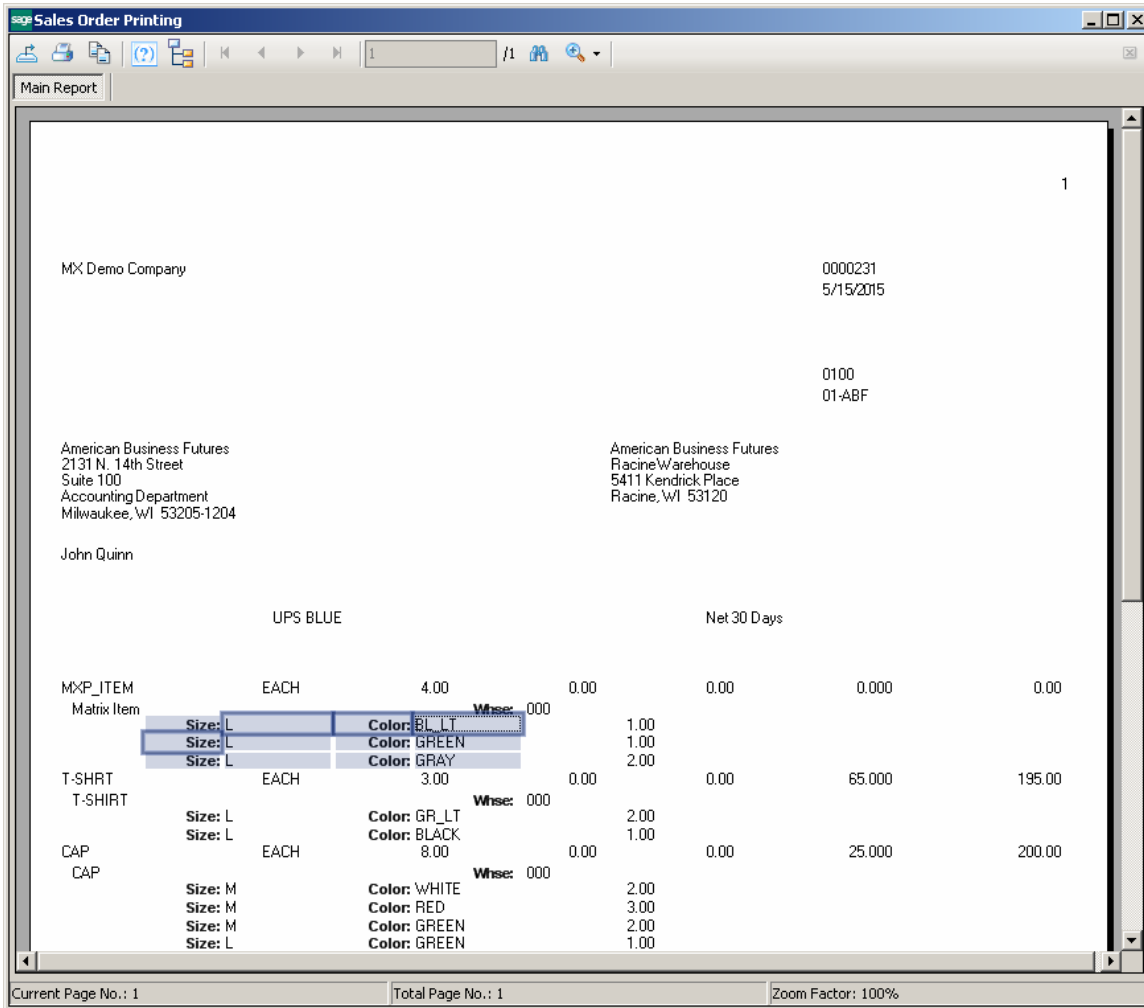
Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Other Printing Forms

Preprinted Laser

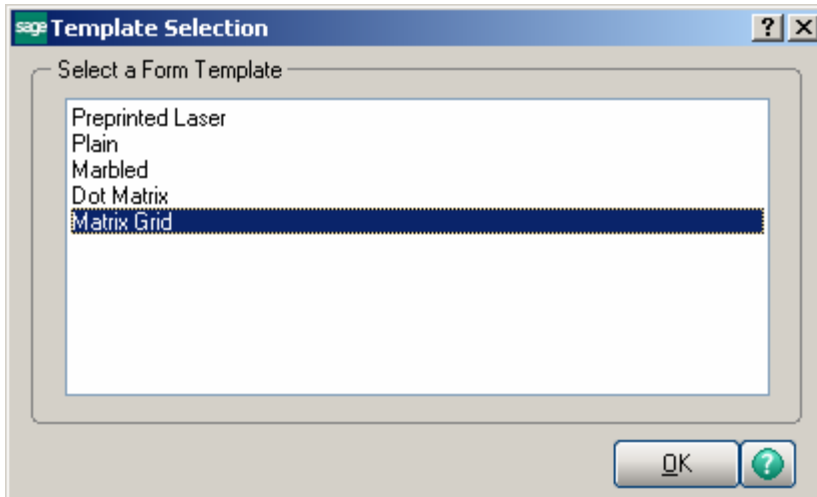
The **Preprinted** form of graphical printing in **Sales Order, S/O Invoice, Picking Sheet, Packing List** and **Purchase Order** have been modified to display Lot Numbers for Matrix Items as a pair of Matrix Codes with their Category Descriptions.

Here is an example of printout:



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.



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

SAGE Sales Order Printing (MXD) 5/15/2015

Form Code:

Description:

Number of Copies: Collated Multi-Part Form Enabled

Sort Orders By:

Order Type to Print: Print Comments:

Print Orders On Hold Print Bill Options

Paperless Office Output:

Print Lot/Serial Distributions

Line 1 Message:

Line 2 Message:

Selections

Select Field	Operand	Value	
Order Number	Range	0000226	0000231
Warehouse Code	All		

Keep Window Open After
 Print Preview

Adobe PDF

Here is an example of **Sales Order Printing** by the Matrix Grid Form Code:

Sales Order Page: 1

MX Demo Company Order Number: 0000226
Order Date: 5/14/2015

Salesperson: 0100
Customer Number: 01-ABF

Sold To:	Ship To:
American Business Futures 2131 N. 14th Street Suite 100 Accounting Department Milwaukee, WI 53205-1204	American Business Futures Racine Warehouse 5411 Kendrick Place Racine, WI 53120

Confirm To:
John Quinn

Customer P.O.	Ship VIA	F.O.B.	Terms
	UPS BLUE		Net 30 Days

Item Code	Unit	Ordered	Shipped	Back Order	Price	Amount
MXP_ITEM	EACH	5.00	0.00	0.00	65.000	325.00
Matrix Item			Whse: 001			

	SMALL	LARGE	Total
LIGHT BLUE	1.00	0.00	1.00
BLUE	0.00	2.00	2.00
BLACK	2.00	0.00	2.00
Total	3.00	2.00	5.00

Current Page No.: 1 Total Page No.: 4 Zoom Factor: 100%

The **Invoice** and **Packing List** printings by Matrix Grid form print the Quantity Shipped and Backordered for Matrix Lot.

Here is an example of printout for Invoice Printing:

Packing List Printing

Main Report

Page: 2

Packing List

MX Demo Company

Shipping Number: 0100127
Ship Date: 5/15/2015
Order Number: 0000232
Order Date: 5/15/2015
Salesperson: 0100
Customer Number: 01-ABF

Sold To:		Ship To:	
American Business Futures 2131 N. 14th Street Suite 100 Accounting Department Milwaukee, WI 53205-1204		American Business Futures Racine Warehouse 5411 Kendrick Place Racine, WI 53120	

Confirm To: John Quinn **Number of Packages:** 1

Customer P. O.	Ship VIA	F. O. B.	Terms
	UPS BLUE		Net 30 Days

Item Number	Unit	Ordered	Shipped	Backordered			
MXP_ITEM	EACH	10.00	7.00	3.00			
Matrix Item Warehouse: 000							
		M	SMALL	EXTRA LA	LARGE	THE LARG	Total
LIGHT BLUE	Ordered	0.00	0.00	0.00	2.00	2.00	4.00
	Shipped	0.00	0.00	0.00	2.00	1.00	3.00
	Backord	0.00	0.00	0.00	0.00	1.00	1.00
GREEN	Ordered	0.00	0.00	2.00	0.00	0.00	2.00
	Shipped	0.00	0.00	2.00	0.00	0.00	2.00
	Backord	0.00	0.00	0.00	0.00	0.00	0.00
GRAY	Ordered	0.00	2.00	0.00	0.00	0.00	2.00
	Shipped	0.00	1.00	0.00	0.00	0.00	1.00
	Backord	0.00	1.00	0.00	0.00	0.00	1.00
BLACK	Ordered	2.00	0.00	0.00	0.00	0.00	2.00
	Shipped	1.00	0.00	0.00	0.00	0.00	1.00
	Backord	1.00	0.00	0.00	0.00	0.00	1.00
Total	Ordered	2.00	2.00	2.00	2.00	2.00	10.00
	Shipped	1.00	1.00	2.00	2.00	1.00	7.00
	Backord	1.00	1.00	0.00	0.00	1.00	3.00

1001-HON-H252 EACH Warehouse: 001 2.00 2.00 0.00

HON 2DRAWER LETTER FLE W/O LK

Current Page No.: 2 Total Page No.: 2 Zoom Factor: 100%

Matrix Codes Sorting in Printings

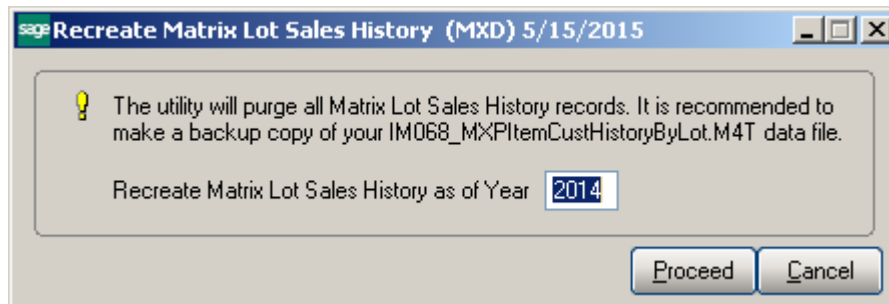
The following printings display **Matrix Codes** based on the **Sort** field value of **Matrix Code Maintenance**:

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

	Matrix Code	Description	R	G	B	Color	Sort
1	L	LARGE	0	255	0	Green	4
2	M	MEDIUM	255	255	128	Yellow	1
3	S	SMALL	255	0	255	Magenta	2
4	XL	EXTRA LARGE	128	0	255	Purple	3
5	XXL	EXTRA EXTRA LARGE	255	255	255	White	5
6	XXXL	THE LARGEST	128	255	255	Cyan	6
7			0	0	0		

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.

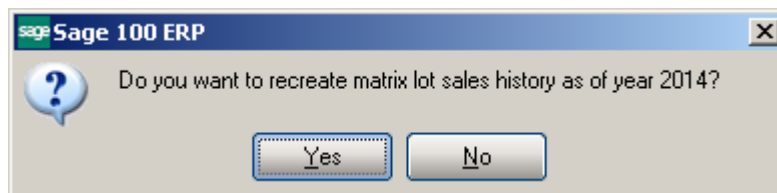


Recreate Matrix Lot Sales History as of Year- Enter the year to be used for recreating Matrix Lot Sales History.

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.