



Matrix Processing For Sage 100 2016

457 Palm Drive
Glendale, CA 91202
818-956-3744
818-956-3746
sales@iigservices.com

www.iigservices.com



Information in this document is subject to change without notice. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose without the express written consent of Information Integration Group, Inc.

TRADEMARKS

MS-DOS and *Windows* are trademarks of Microsoft Corporation.

SAGE 100 (formerly Sage ERP MAS 90 and 200) is registered trademarks of Sage Software, Inc.

All other product names and brand names are service marks, and/or trademarks or registered trademarks of their respective companies.

Table of Contents

<i>Pre-Installation Checklist</i>	4
<i>Installation Instructions and Cautions</i>	5
Wait! Before You Install – Do You Use CUSTOM OFFICE?	5
Registering IIG products.....	6
ODBC Security.....	7
Role Maintenance	7
<i>Introduction</i>	8
<i>Setup</i>	9
Matrix Options	9
Matrix Items	20
Customer Matrix Sales History.....	28
<i>Matrix Codes Setup</i>	32
Role Maintenance	32
Matrix Code Maintenance.....	33
Prepacks	39
Matrix Item UPC Maintenance.....	42
<i>Matrix Distribution</i>	45
Purchase Order Entry.....	45
Receipt of Goods.....	48
Return of Goods Entry.....	52
Sales Order Entry.....	53
S/O Invoice Data Entry	55
Shipping Data Entry	62
Inventory Transaction Entry	62
Physical Count Entry	65
RMA Data and RMA Receipts Entry.....	66
Production Entry	67
Disassembly Entry	70
<i>Predefined Distribution in Bills</i>	72
Bill of Materials Maintenance	72
<i>Inquiries</i>	76
Purchase Order Inquiry	76
<i>Printings</i>	78
Matrix Sales History Report	78
Matrix Stock Status Report.....	80
Matrix Stock Status Report (Grid).....	82
Matrix Committed Report.....	84
Inventory Valuation Report	85
Open Orders by Matrix Item Report	87

Matrix Processing

3

Open Orders by Matrix Lot Report	90
Matrix Codes Invoice History Report	93
Other Printing Forms	96
Matrix Codes Sorting in Printings.....	102
<i>Recreate Matrix Lot Sales History.....</i>	<i>103</i>
<i>Rebuild Sort Files.....</i>	<i>103</i>

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 MXP2016.txt**” file located in the **Doc** folder of the installation CD.

Installation Instructions and Cautions

PLEASE NOTE: *SAGE 100 must already be installed on your system before installing any IIG enhancement. If not already done, perform your SAGE 100 installation and setup now; then allow any updating to be accomplished automatically. Once SAGE 100 installation and file updating is complete, you may install your IIG enhancement product by following the procedure below.*

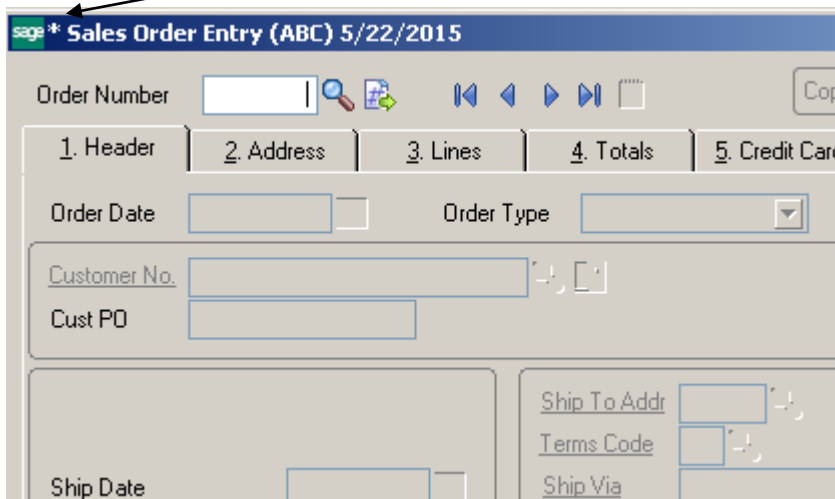
Wait! Before You Install – Do You Use CUSTOM OFFICE?

THIS IS AN IMPORTANT CAUTION: *If you have Custom Office installed, **and** if you have modified any SAGE 100 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

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	5.30			BBBBB

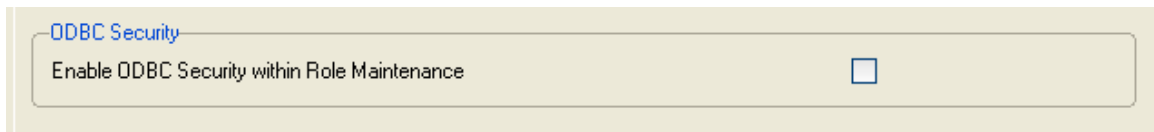
Enter **Serial Number** and **Unlocking Key** provided by IIG, and click **OK**.

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.

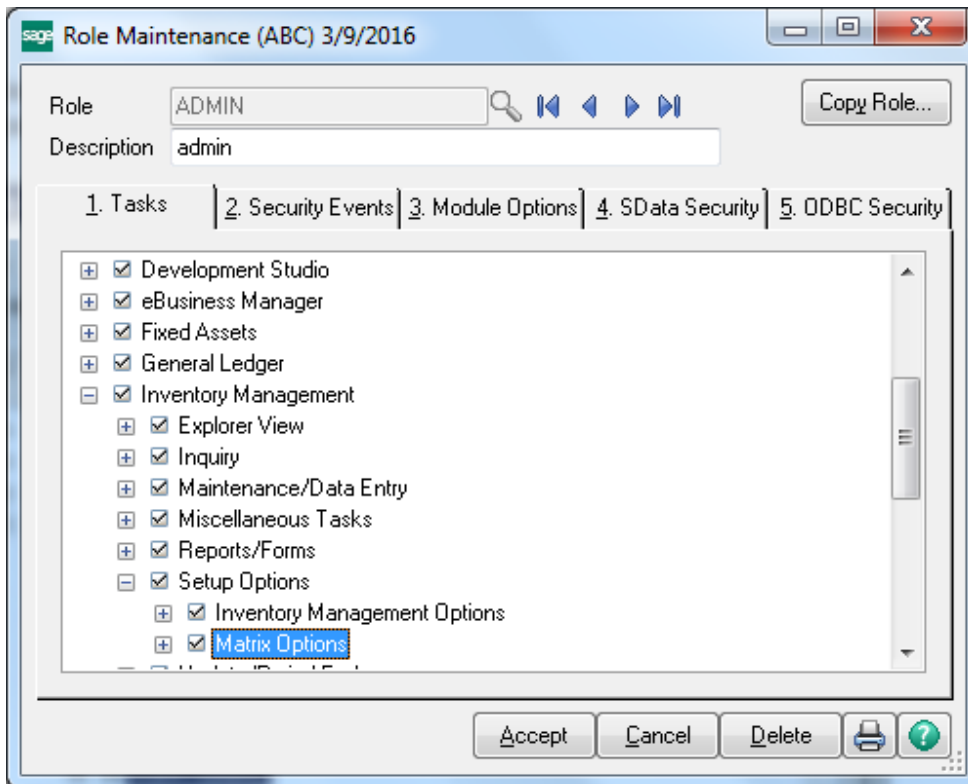
ODBC Security

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.

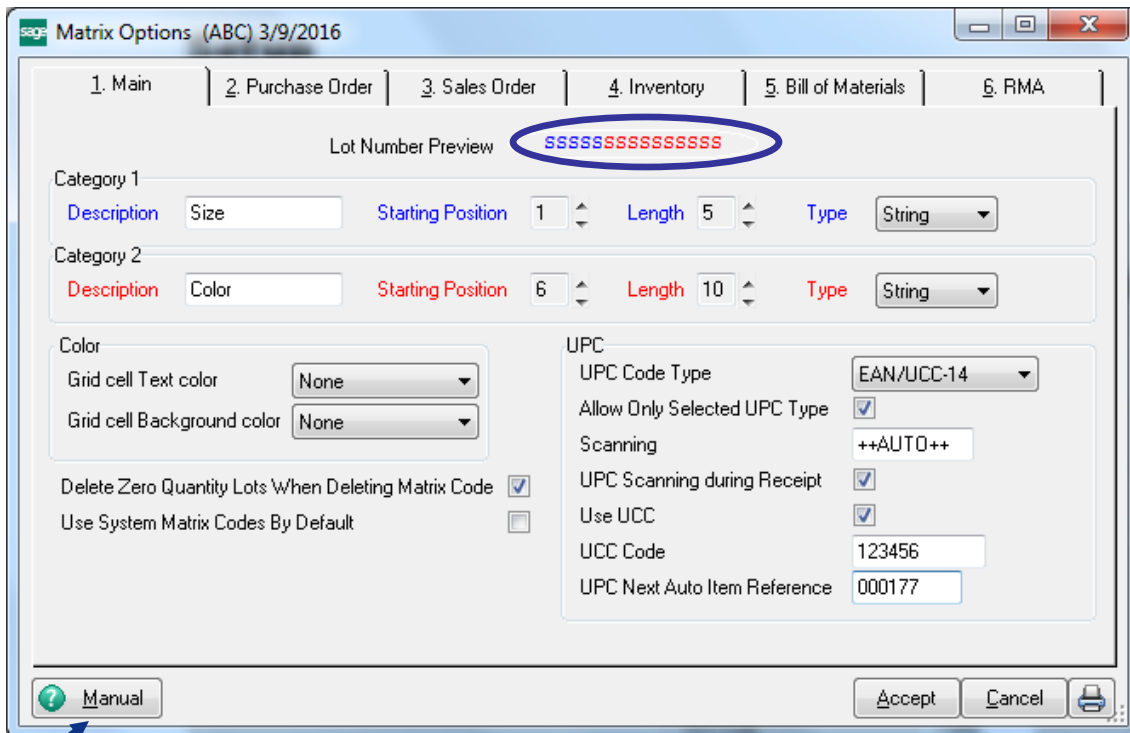
The **Matrix Grid** printing form has been added to the graphical printing Form Templates to allow printing the **Matrix Distribution** grid information on the **Sales Order, S/O Invoice, Picking Sheet, Packing List** and **Purchase Order** printings.

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.

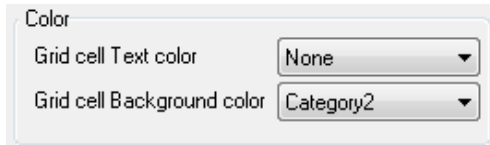


The **Manual** button allows for viewing MXP enhancement document in a PDF format. On the **Main** tab, select options for Matrix Code Categories and grid colors.

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.



The image shows a configuration panel titled "Color". It contains two dropdown menus. The first dropdown is labeled "Grid cell Text color" and has "None" selected. The second dropdown is labeled "Grid cell Background color" and has "Category2" selected.

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.

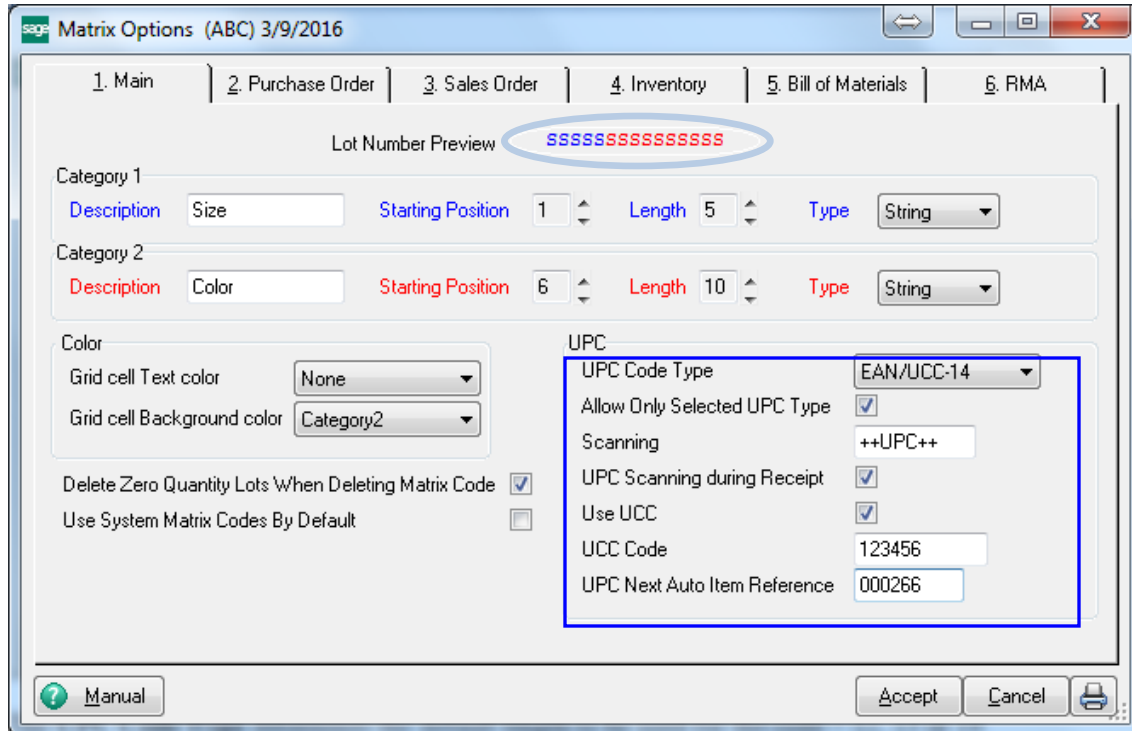
Check the **Use System Matrix Code by Default** box if you want the System Matrix Codes to be applied by default for Matrix Items not having Matrix Codes setup. This option is not set by default. If this checkbox is not selected in the Matrix Option the user will be prompted about adding Matrix Codes when entering a Matrix item not having Matrix Codes setup. The Matrix Codes button on the **Matrix Distribution Entry** allows the users, having respective permission, to set up Matrix Codes.

The screenshot shows the SAP 'Lot/Serial No. - Matrix Distribution Entry' dialog box. At the top, the 'Item Code' is 'MXP-ITEM' and the 'Unit of Measure' is 'EACH'. A red message states: 'It is necessary to setup Matrix Codes for current Item'. Below this is a large empty grid area. At the bottom, there is a table with columns 'Lot Number', 'Available', and 'Distribute'. The first row has '1' in the 'Lot Number' column, and '.00' in both the 'Available' and 'Distribute' columns. To the right of the table are controls for 'Grid column Width' (set to 14), 'Enter quantities by' (set to 'Columns'), and 'Show Quantities' (with checkboxes for 'On Hand', 'Available', and 'Distributed', all checked). At the bottom right are 'OK' and 'Cancel' buttons.

Lot Number	Available	Distribute
1	.00	.00

Distribution Balance: .00
Qty Distributed: .00

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

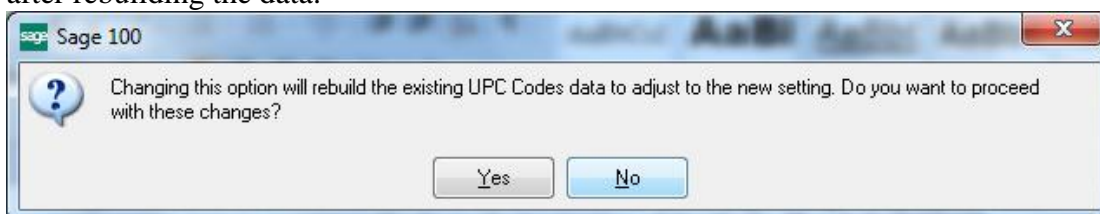


The **UPC Code Type** determines the default length to be used for the code – 12, 13 or 14 digits. The available options are UCC-12, EAN/UCC-13, EAN/UCC-14.

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 UPC Type** option, after UPC Codes are used in the system, can lead to problems connected to the already entered and used UPC Codes after rebuilding the data.



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 when scanning UPC codes of the lots not having one in the Receipt of Goods Matrix Grid.

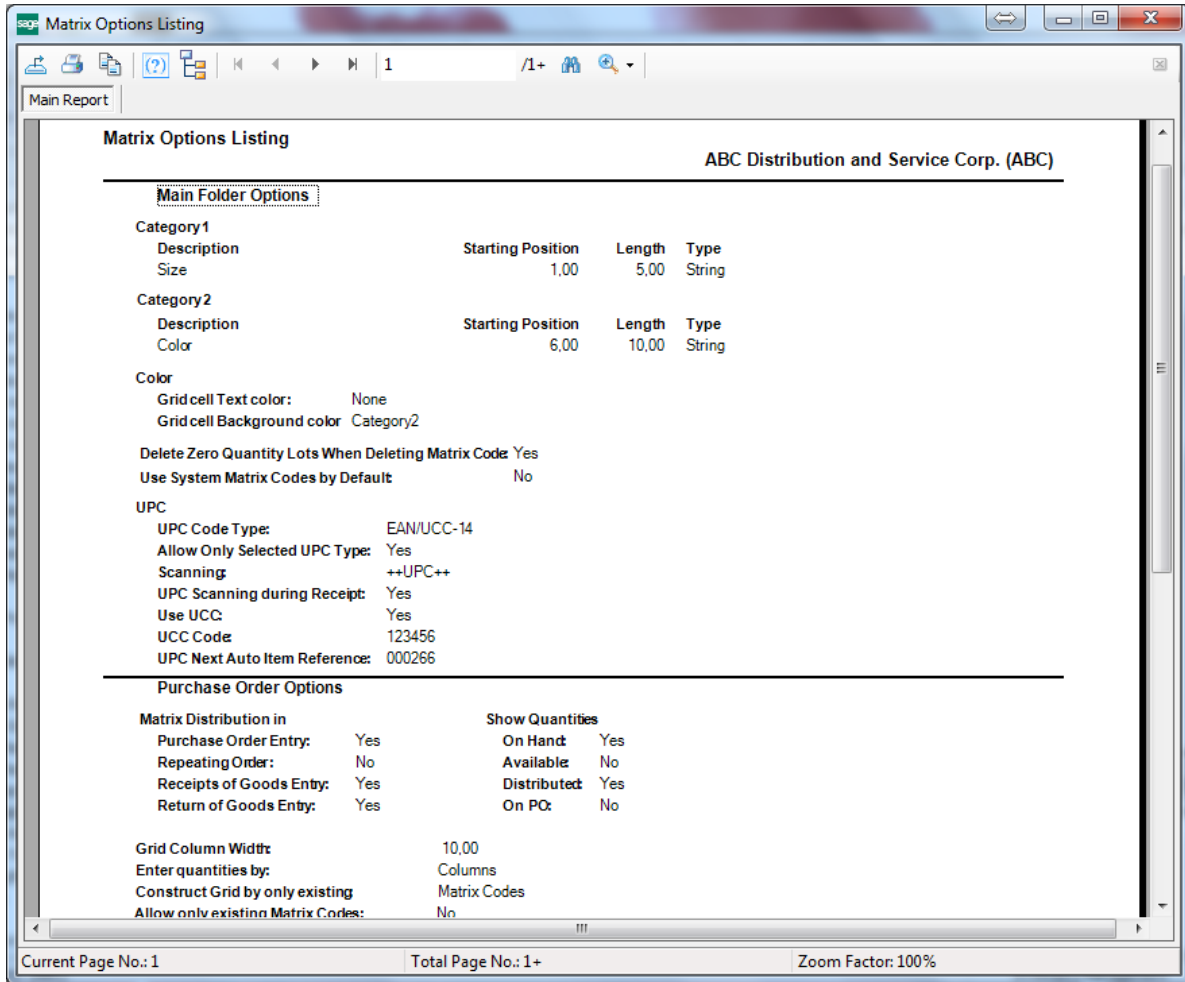
Check the **Use UCC** box if your company manufactures rather than purchases and sells finished goods

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.

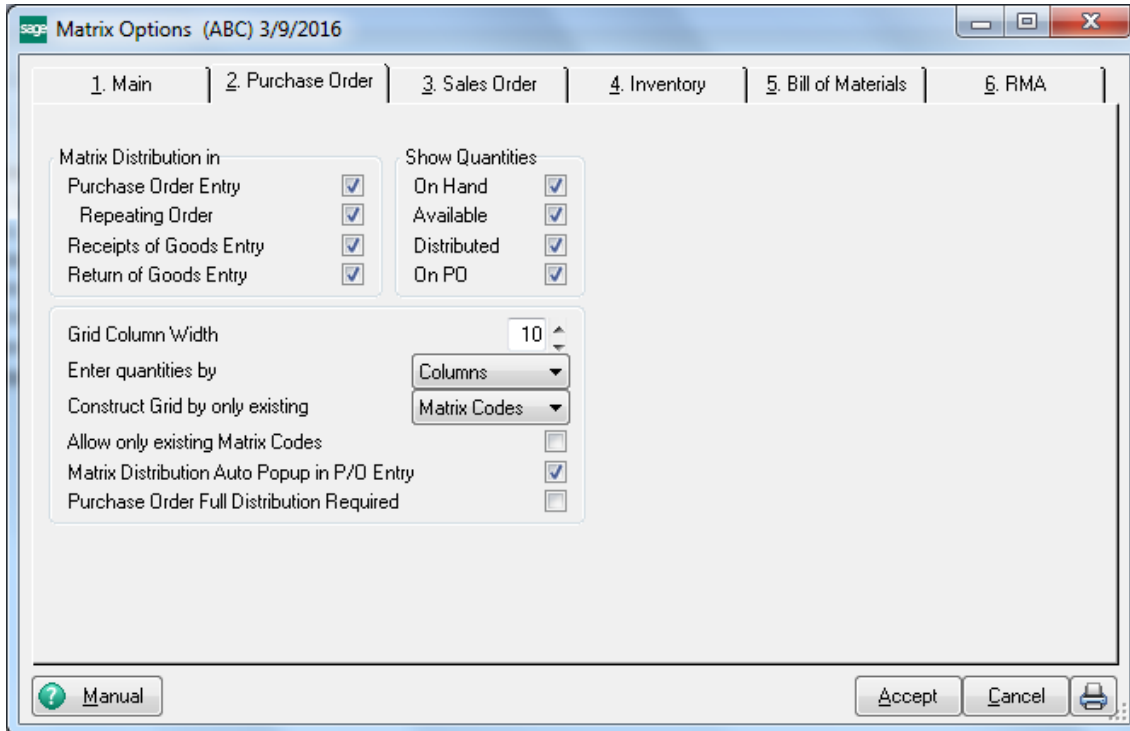
The **UPC Next Auto Item Reference** is for adding to the **UCC Code** when assigning UPC Codes automatically in the **UPC Code Maintenance** program. The **Item Reference** cannot be shorter than 2 digits.

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

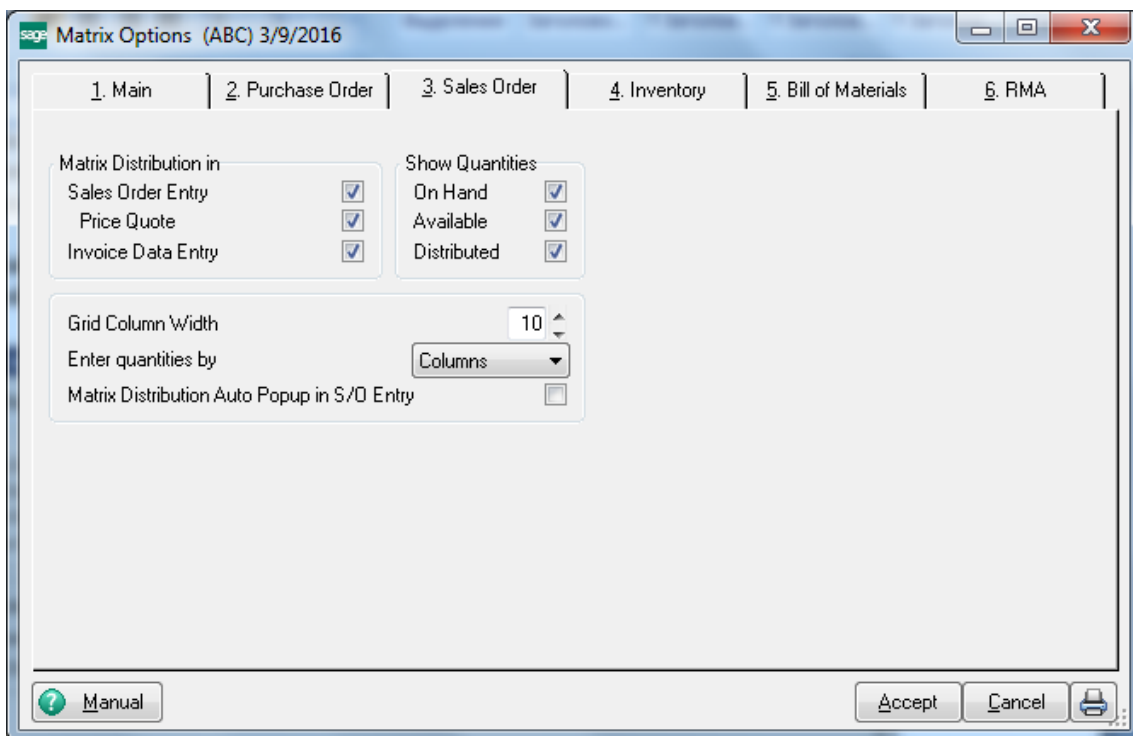
grid. Select **Matrix Codes** to display item Matrix Codes from the **Matrix Code Maintenance**.

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.



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.

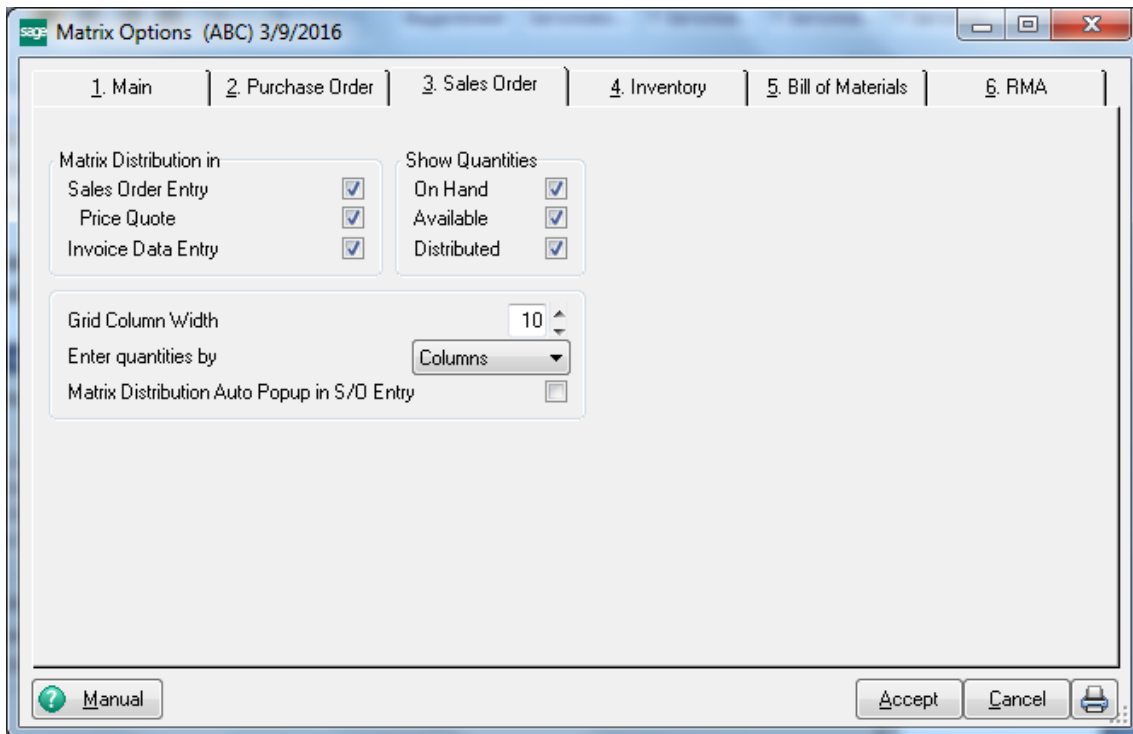
If the **Matrix Distribution in Sales Order Entry** is enabled, the Distribution for Matrix items can be also allowed for **Price Quotes**. When the **Price Quote** box is checked, the Matrix Distribution of the Price Quote is preserved when converting it to Standard Order.

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.

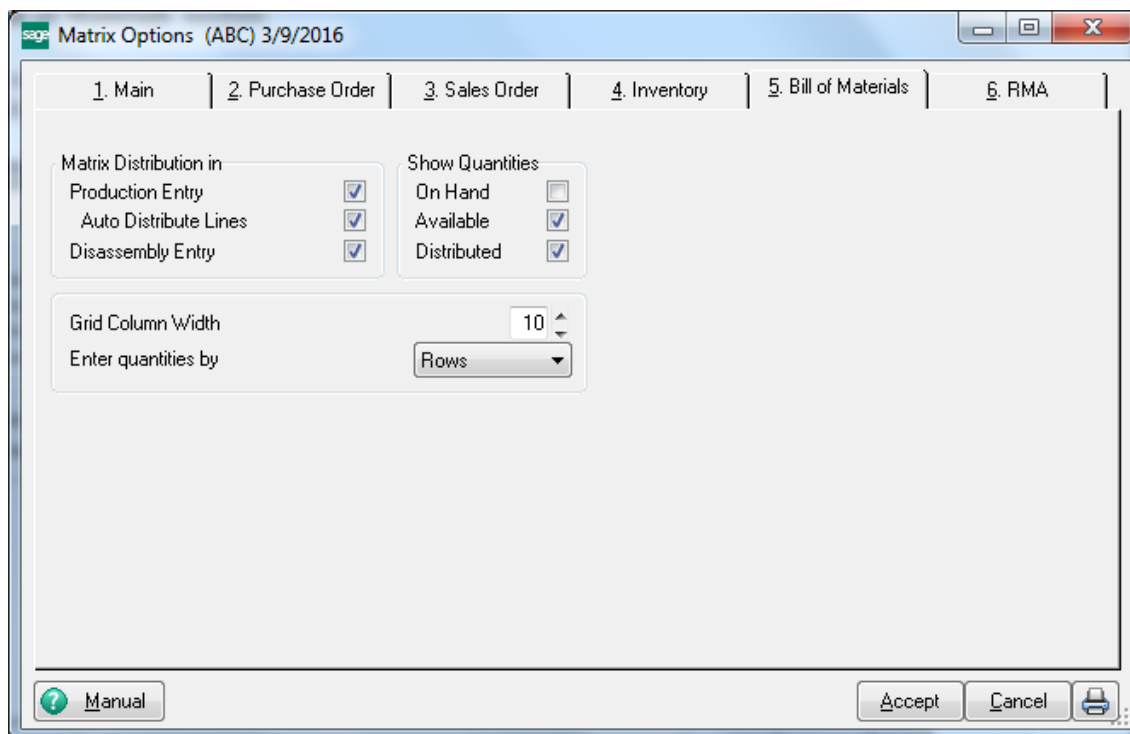


In the **Matrix Distribution in** section, check the boxes for the entries where the Matrix Distribution screen should popup for Matrix Items instead of the standard **Lot/Serial Distribution** screen.

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.



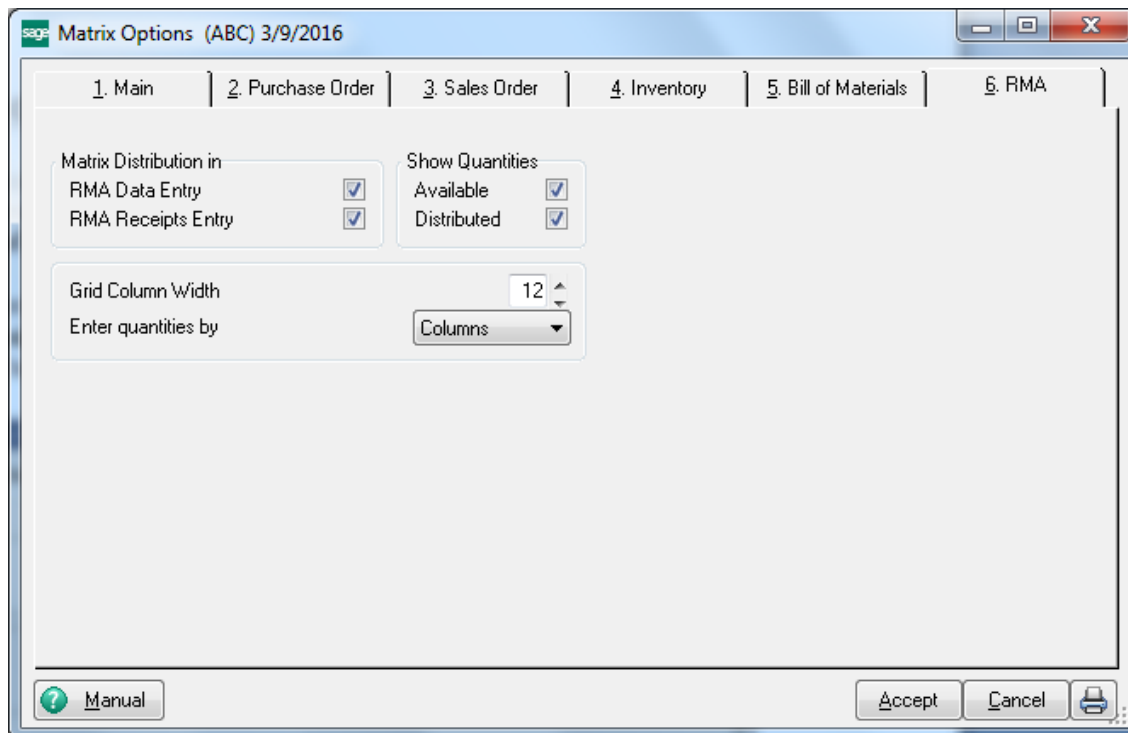
In the **Matrix Distribution in** section, check the boxes for the entries where the Matrix Distribution screen should popup for Matrix Items instead of the standard **Lot/Serial Distribution** screen.

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.



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

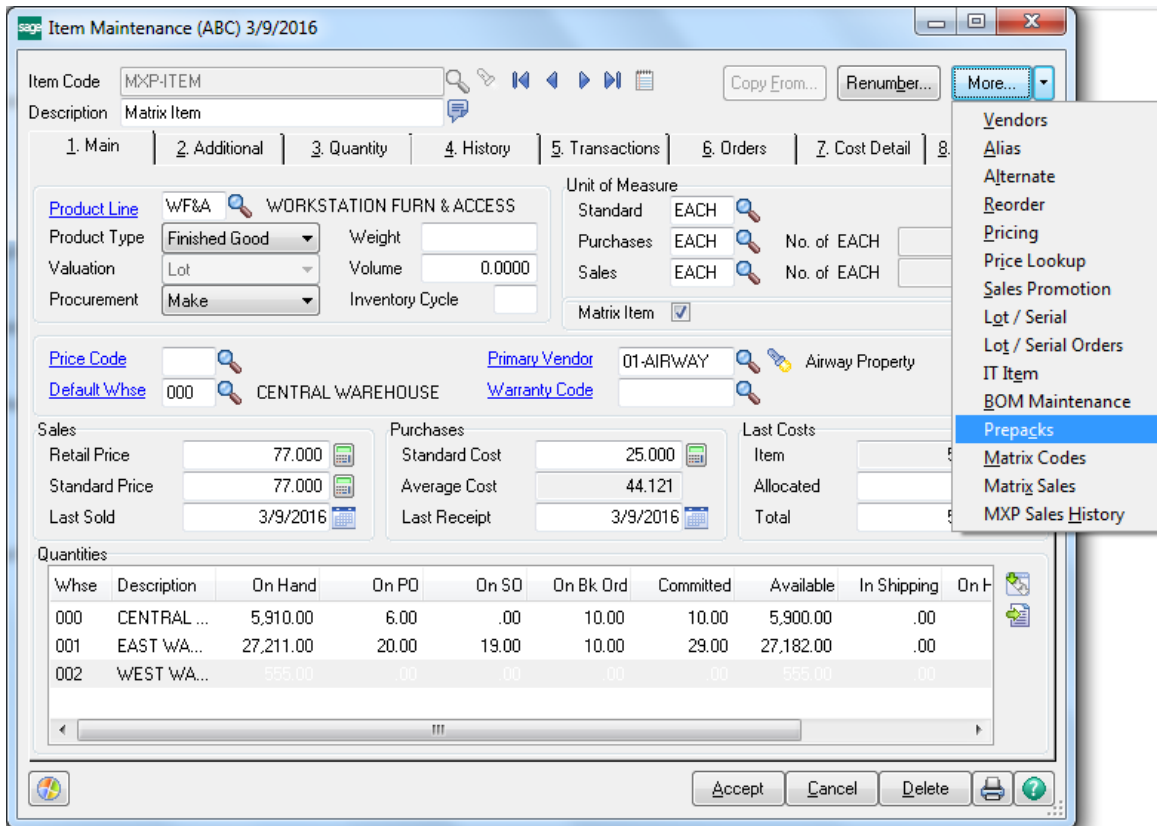
Select the **Item Maintenance** program under the Inventory Management Main menu.

The screenshot shows the Sage Item Maintenance window for item 'MXP-ITEM'. The 'Matrix Item' checkbox is checked and highlighted with a blue box. The window displays various fields for item details, including Product Line, Product Type, Valuation, and pricing information.

Whse	Description	On Hand	On PO	On SO	On Bk Ord	Committed	Available	In Shipping	On H
000	CENTRAL ...	5,910.00	6.00	.00	10.00	10.00	5,900.00	.00	
001	EAST WA...	27,211.00	20.00	19.00	10.00	29.00	27,182.00	.00	
002	WEST WA...	555.00	.00	.00	.00	.00	555.00	.00	

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

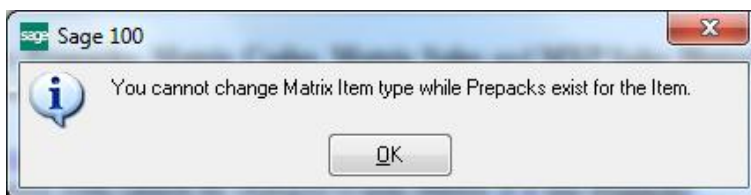
The **Matrix Item** box can be checked only for **Lot** items. The **Valuation** of an item specified as **Matrix Item** cannot be changed to any type other than **Lot**.



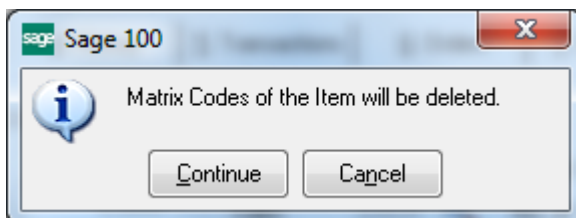
The **Prepacks**, **Matrix Codes**, **Matrix Sales** and **MXP Sales History** buttons are enabled only for Matrix Items.

[Prepacks](#) are discussed later in this manual.

Matrix Item cannot be changed to non-Matrix if it has Prepacks.

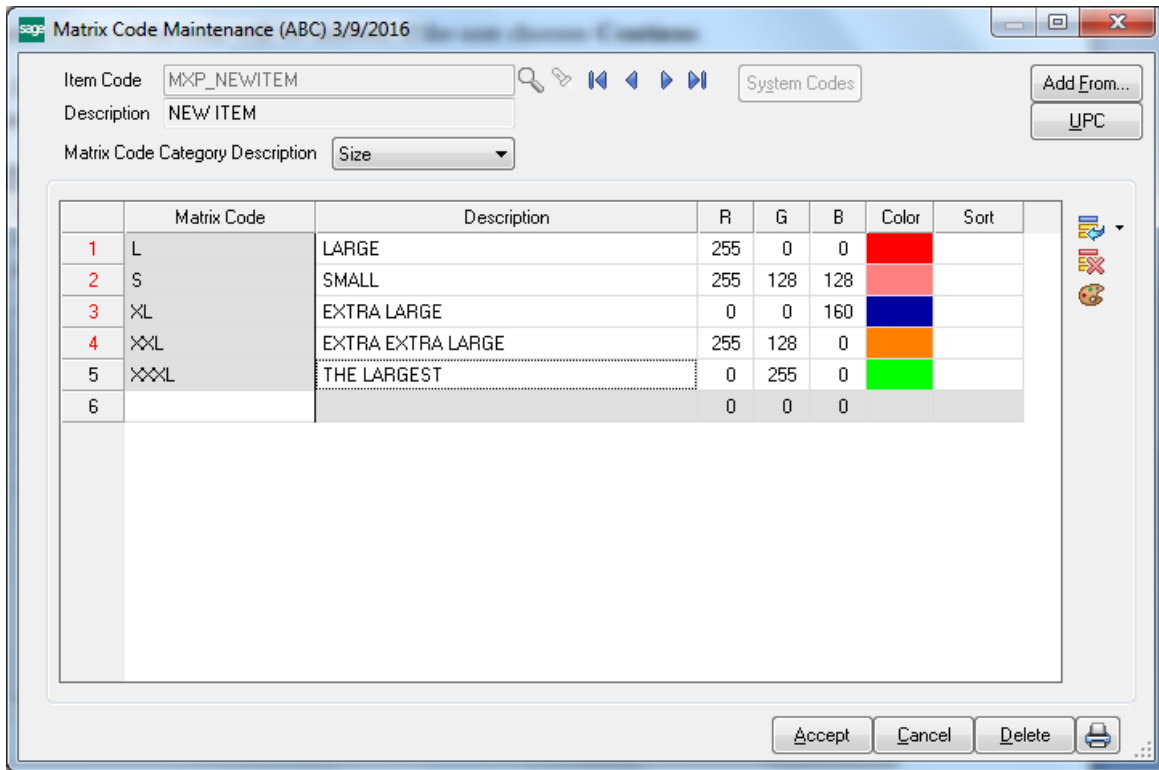


If the **Matrix Item** check box is cleared for an item that has Matrix Codes, a prompt appears about deleting Matrix Codes:



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.



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.

Customer Sales History

Item Code: MXP_NEWITEM NEW ITEM

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

Name: American Business Futures

Period	Ending	Qty Sold	Sales \$	Cost of Sales	Qty Returned
01	Jan 31	.00	.00	.00	.00
02	Feb 29	.00	.00	.00	.00
03	Mar 31	14.00	3,980.00	.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		14.00	3,980.00	.00	.00

2016

Transaction History, Alt-Z

OK ?

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

Sales Transaction History

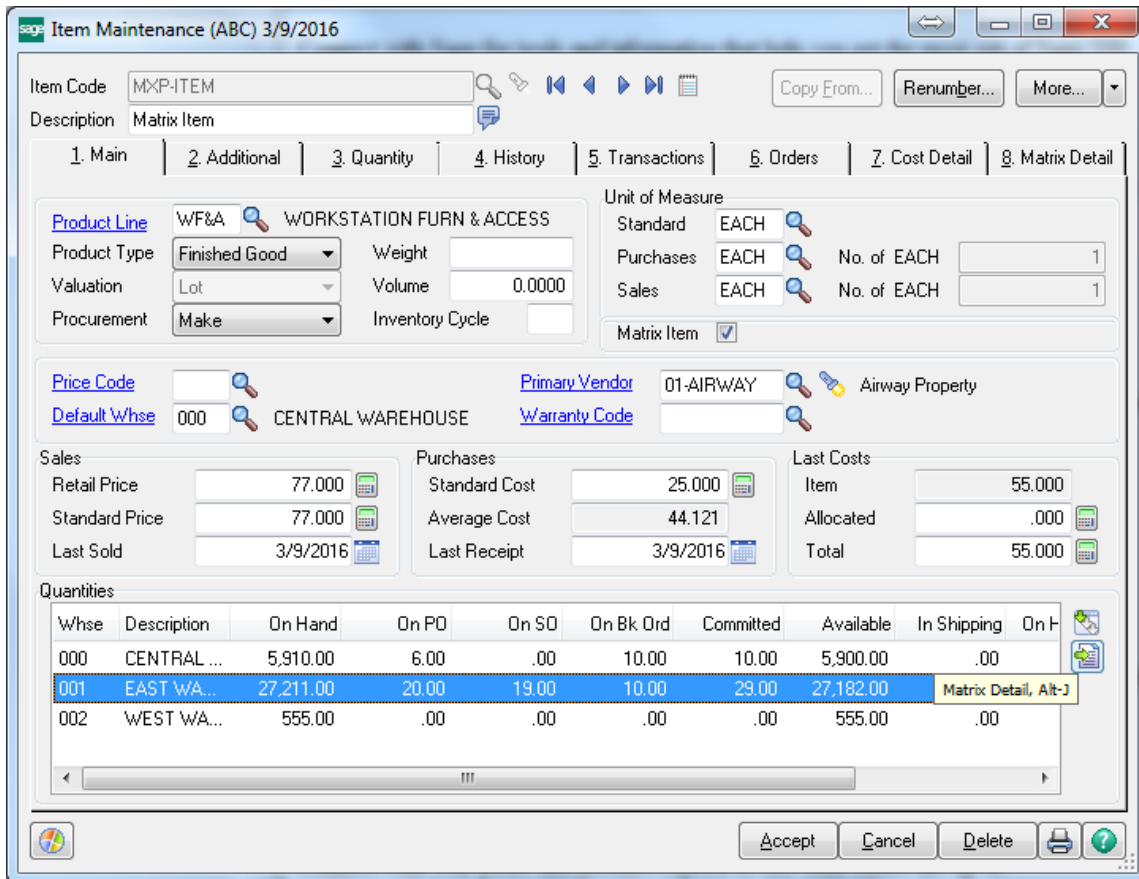
Customer No. 01-ABF American Business Futures Year 2016 Period 03

Item Code MXP_NEWITEM NEW ITEM Ship To ALL

Trans Date	Type	Ref No.	Whse	Description	Quantity	Unit Cost	Extension	Item Cost
3/9/2016	SO	0100063...	001	EAST WA...	5.00	.000	.00	.000
3/9/2016	SO	0100064...	001	EAST WA...	5.00-	.000	.00	.000
3/9/2016	SO	0100065...	001	EAST WA...	4.00-	.000	.00	.000

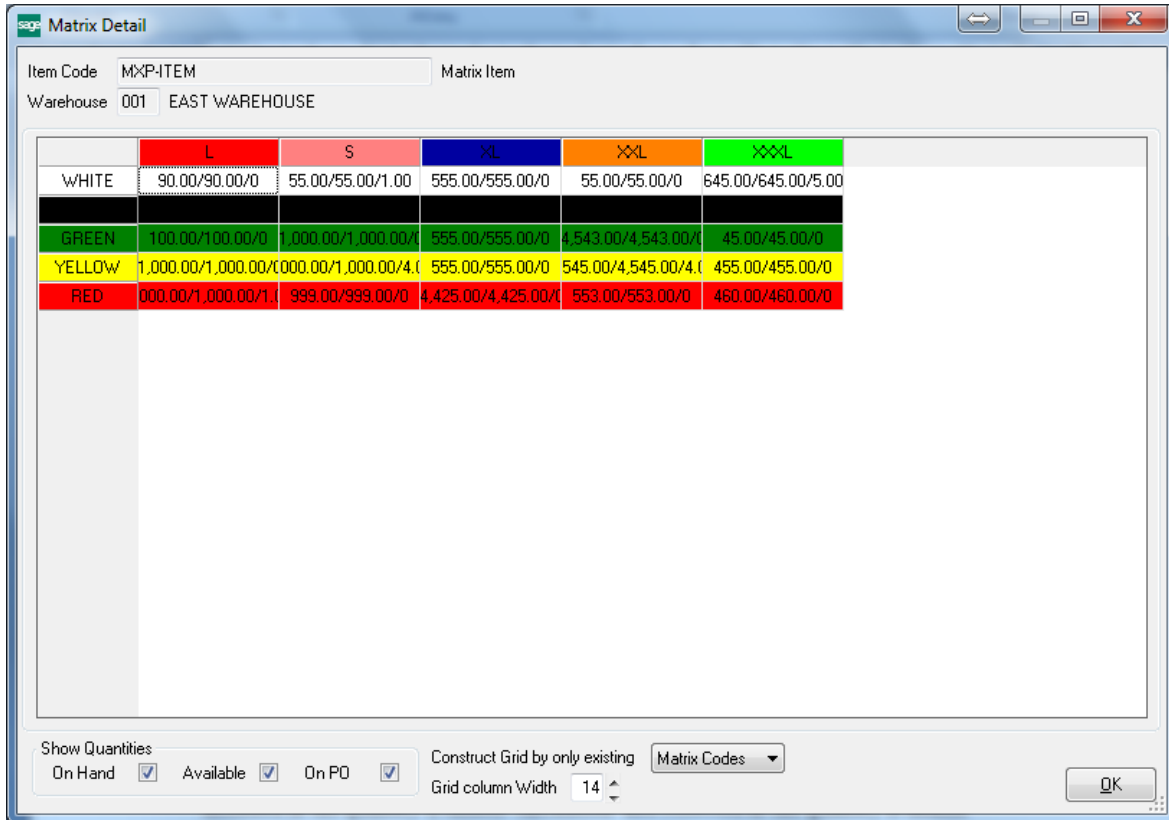
OK ?

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.



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

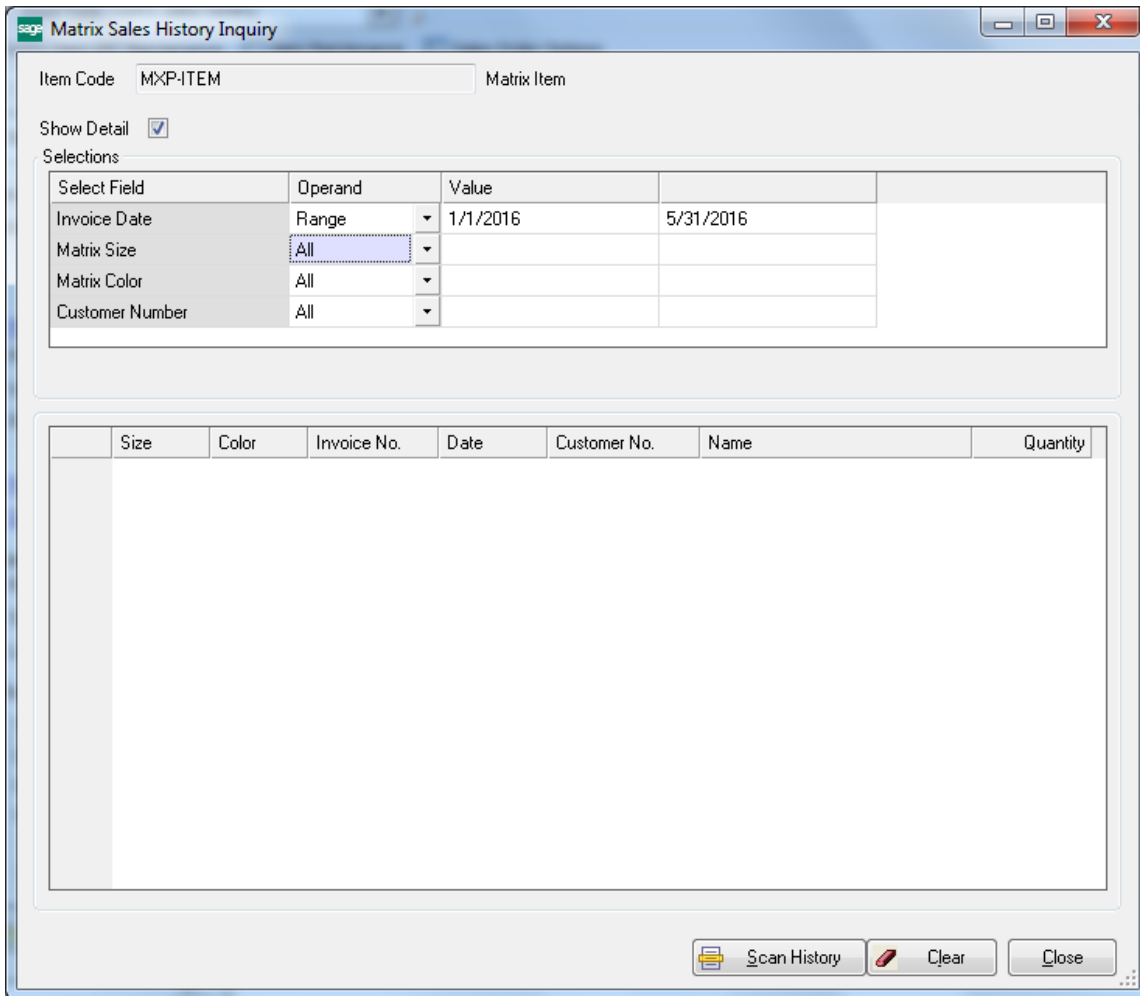
If the **Include in Quantity Available** option is set to “Purchase Order” or “PO s and WO s” in the **Inventory Management Options** the quantity On PO for Matrix Lot will be included in the quantity available calculation and reflected in the quantity available displayed on the Matrix Grid wherever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

Item Code: MXP-ITEM Matrix Item

Show Detail

Selections

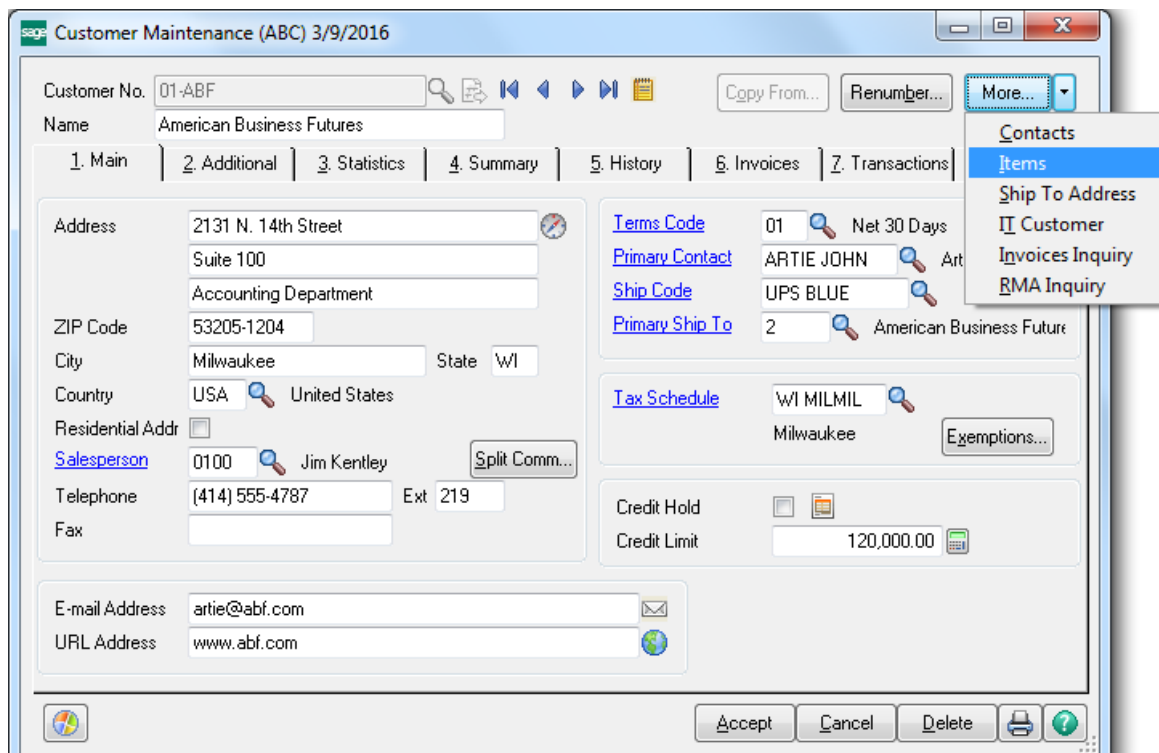
Select Field	Operand	Value
Invoice Date	Range	1/1/2016 5/31/2016
Matrix Size	All	
Matrix Color	All	
Customer Number	All	

Size	Color	Invoice No.	Date	Customer No.	Name	Quantity
L	WHITE	0100077	3/9/2016	01-ABF	American Business Futures	10.00
L	WHITE	0100082	3/9/2016	01-ABF	American Business Futures	2.00
MATRI	X_LOT	0100060	3/9/2016	01-ABF	American Business Futures	2.00
MATRI	X_LOT	0100061	3/9/2016	01-ABF	American Business Futures	2.00
S	BLACK	0100082	3/9/2016	01-ABF	American Business Futures	2.00
S	RED	0100076	3/9/2016	01-ABF	American Business Futures	1.00
S	WHITE	0100082	3/9/2016	01-ABF	American Business Futures	2.00
XXL	GREEN	0100076	3/9/2016	01-ABF	American Business Futures	2.00

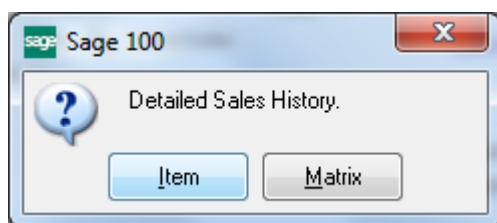
Scan History Clear Close

Customer Matrix Sales History

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

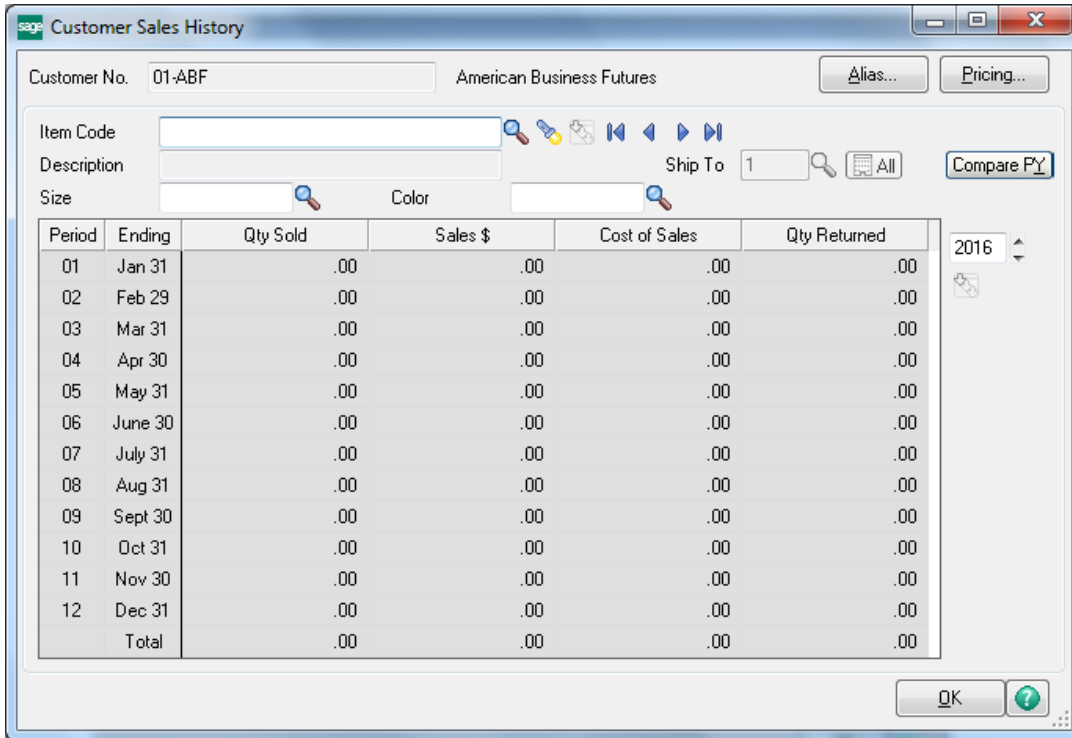


Click the **Items** menu.

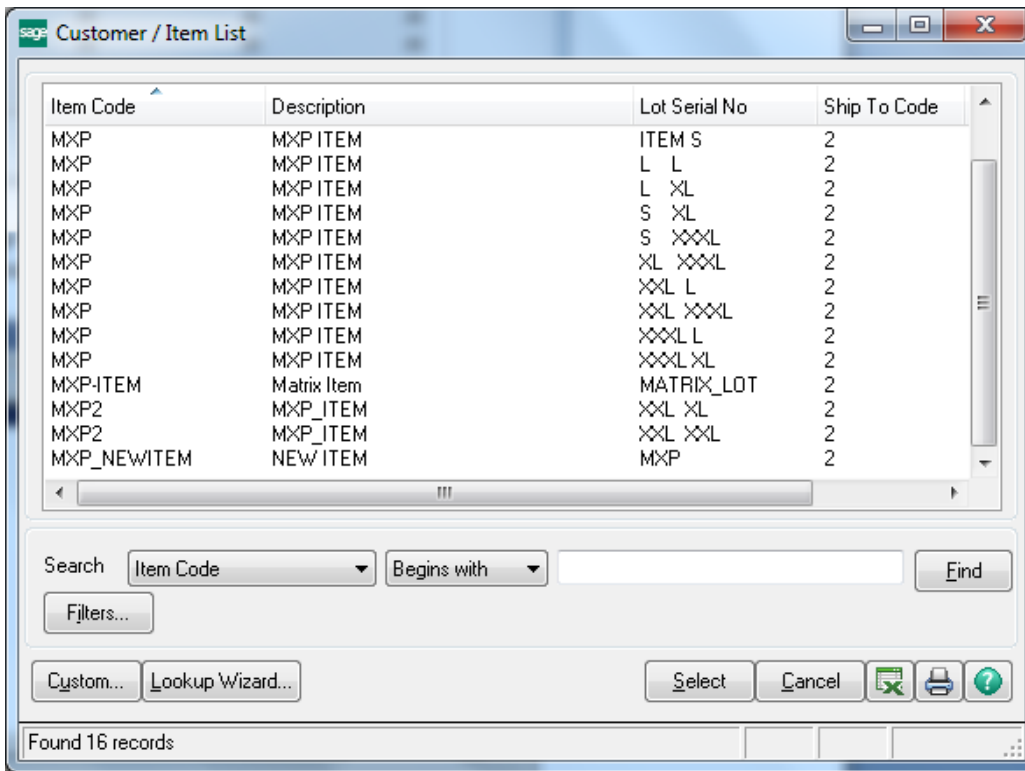


In the opened dialog box click the **Matrix** button to open the **Detailed Matrix Sales History** screen.

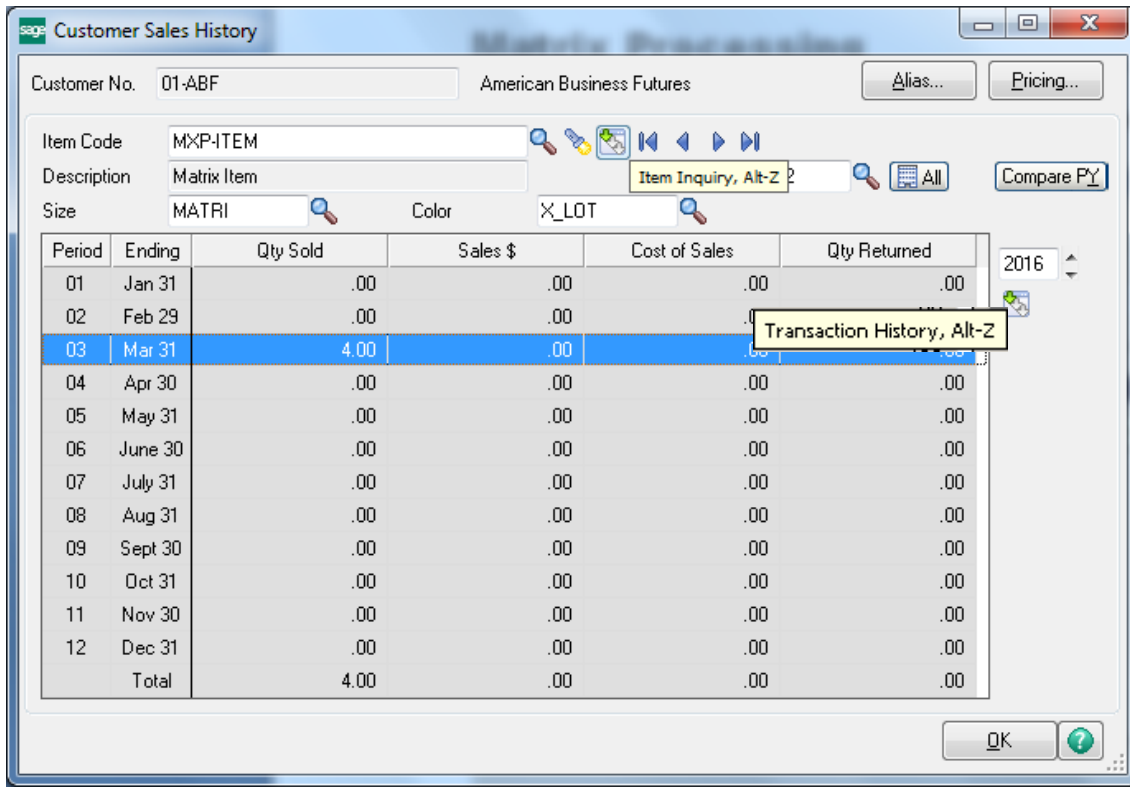
Enter the **Item No.** or select it using the **Lookup** button. The Lookup list displays only Matrix items.



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



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



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

The screenshot shows a window titled "Sales Transaction History" with the following fields and values:

- Customer No.: 01-ABF American Business Futures
- Year: 2016 Period: 03
- Item Code: MXP-ITEM Matrix Item
- Ship To: 2

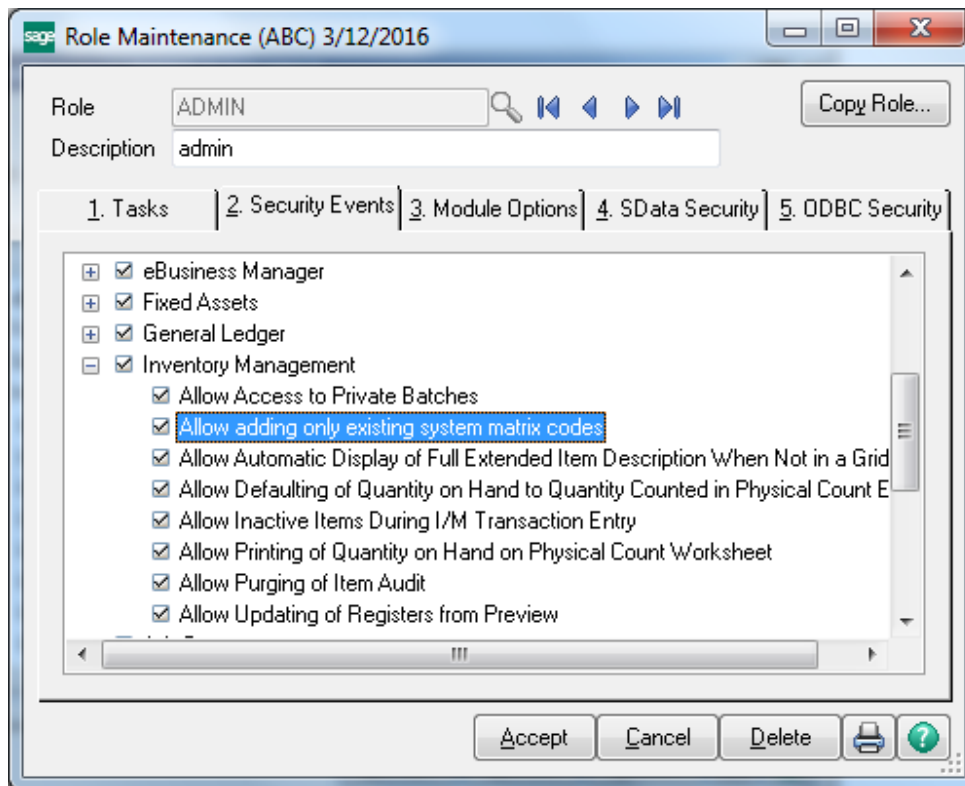
Trans Date	Type	Ref No.	Whse	Description	Quantity	Unit Cost	Extension	Item Cost
3/9/2016	SO	0100060...	001	EAST WA...	2.00	.000	.00	.000
3/9/2016	SO	0100061...	001	EAST WA...	2.00	.000	.00	.000

Buttons: OK, Refresh

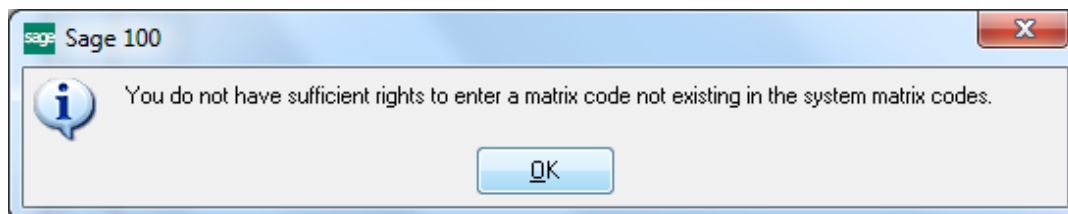
Matrix Codes Setup

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.

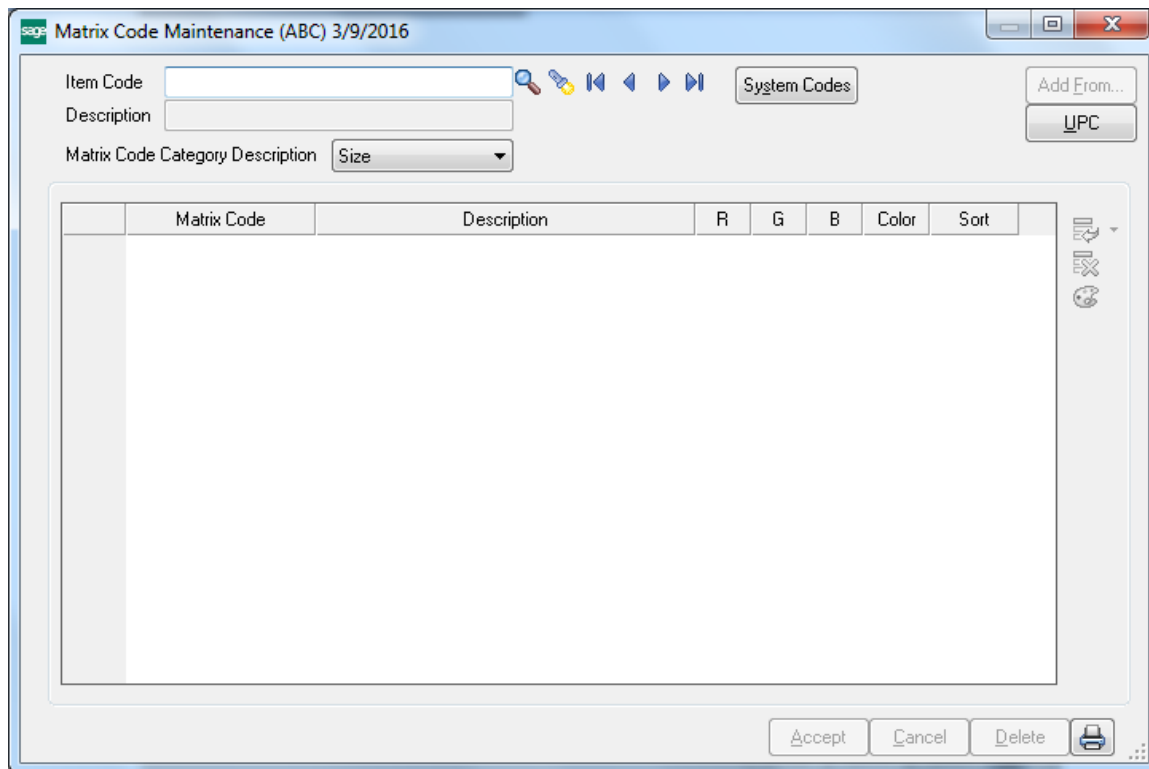


If this security event is enabled for a user's role, the user can add a Matrix code for an Item only from System Matrix codes. The following message will appear when trying to add a Matrix Code not existing in the System Matrix Codes.



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.



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

Matrix Code Maintenance (ABC) 3/9/2016

Item Code: *SYSTEM_MATRIX* System Codes Add From...
 Description: *SYSTEM MATRIX CODES* UPC

Matrix Code Category Description: Size

	Matrix Code	Description	R	G	B	Color	Sort
1	L	LARGE	255	255	255		2
2	S	SMALL	255	255	255		1
3	XL	EXTRA LARGE	255	255	255		5
4	XXL	EXTRA EXTRA LARGE	255	255	255		3
5	XXXL	THE LARGEST	255	255	255		7
6			0	0	0		

Accept Cancel Delete

Matrix Code Maintenance (ABC) 3/9/2016

Item Code: *SYSTEM_MATRIX* System Codes Add From...
 Description: *SYSTEM MATRIX CODES* UPC

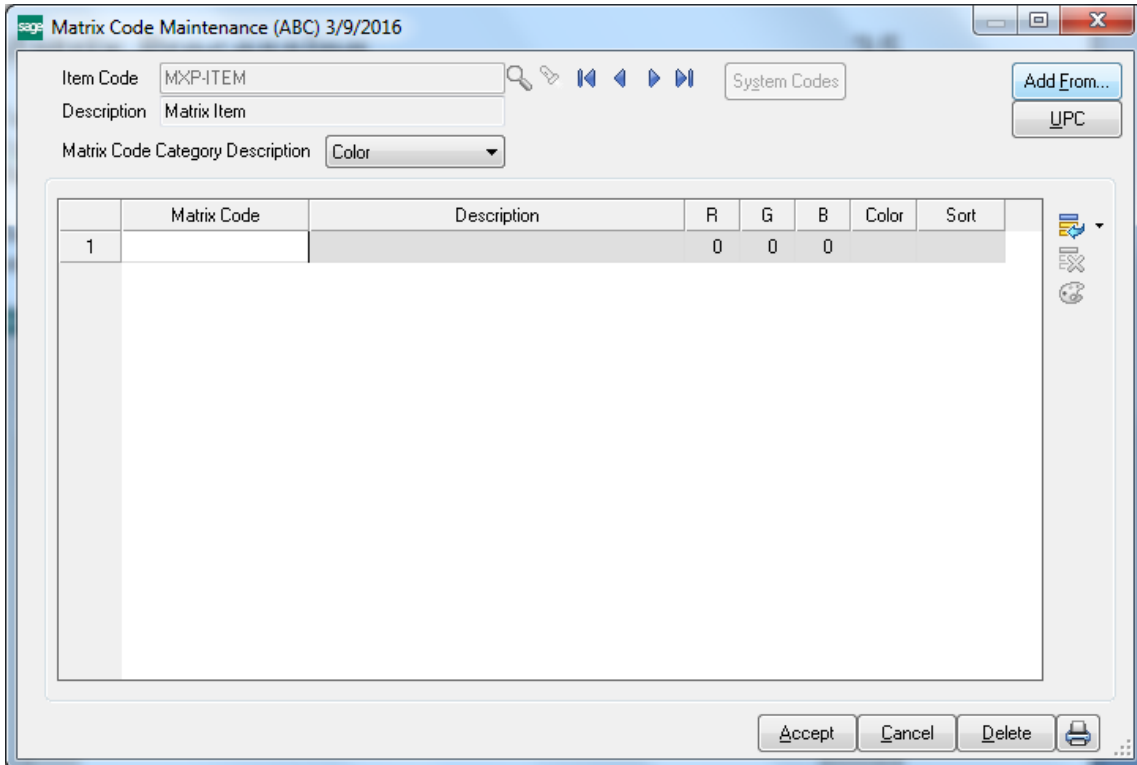
Matrix Code Category Description: Color

	Matrix Code	Description	R	G	B	Color	Sort
1	GREEN	GREEN	0	128	0		
2	BLUE	BLUE	0	0	255		
3	RED	RED	255	0	0		
4	WHITE	WHITE	255	255	255		
5	BLACK	BLACK	0	0	0		
6	YELLOW	YELLOW	255	255	0		
7			0	0	0		

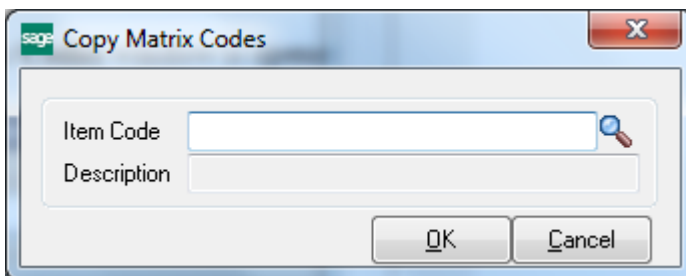
Accept Cancel Delete

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

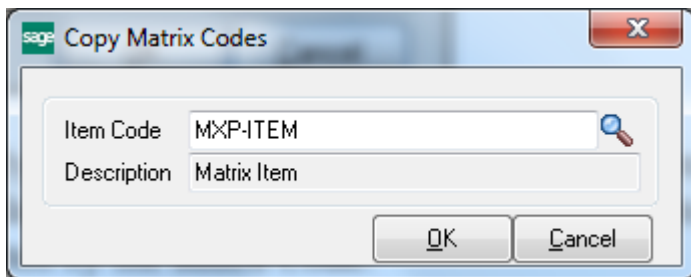
The **Add From** button allows for copying Matrix Codes from any item to the selected item's Matrix Codes.



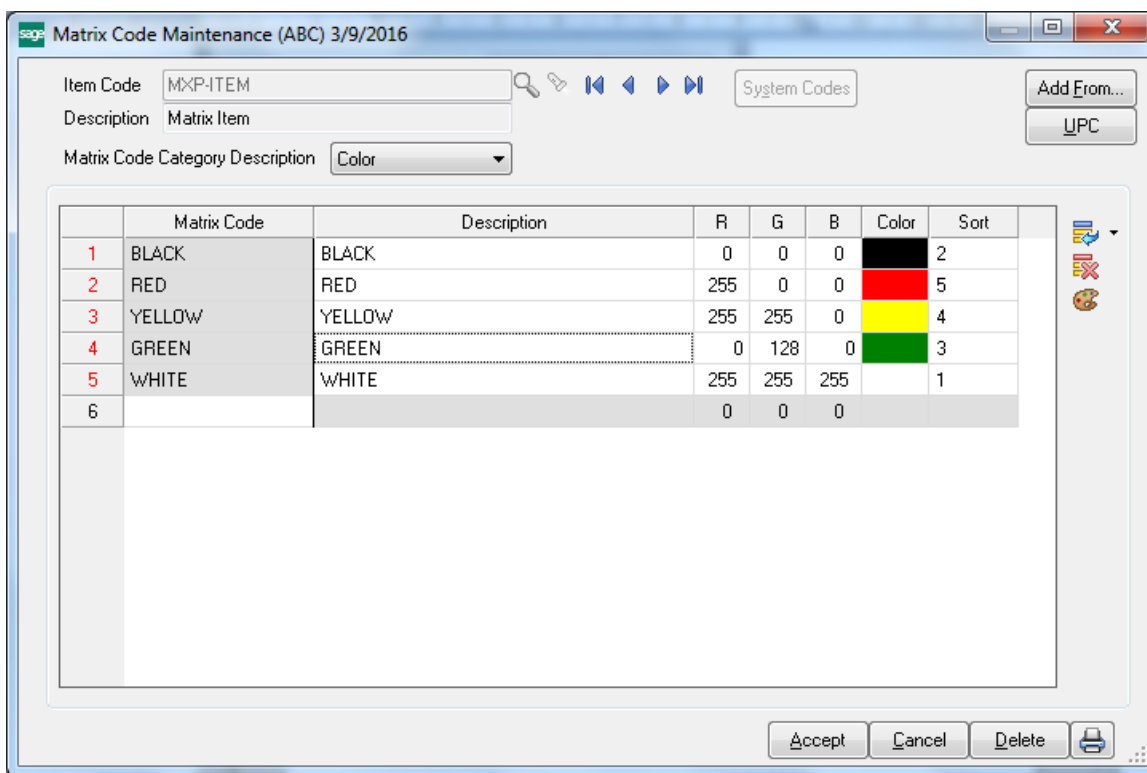
The **Copy Matrix Codes** window is opened upon pressing the **Add From...** button



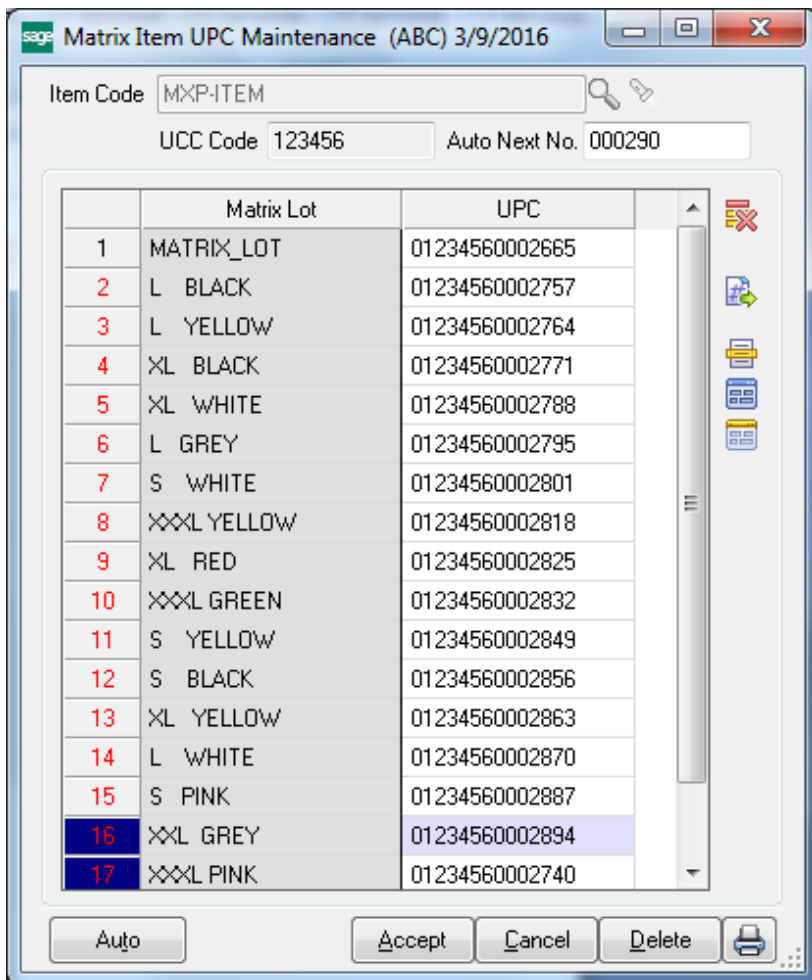
Select an Item you want the Matrix Codes to be copied from and press OK.



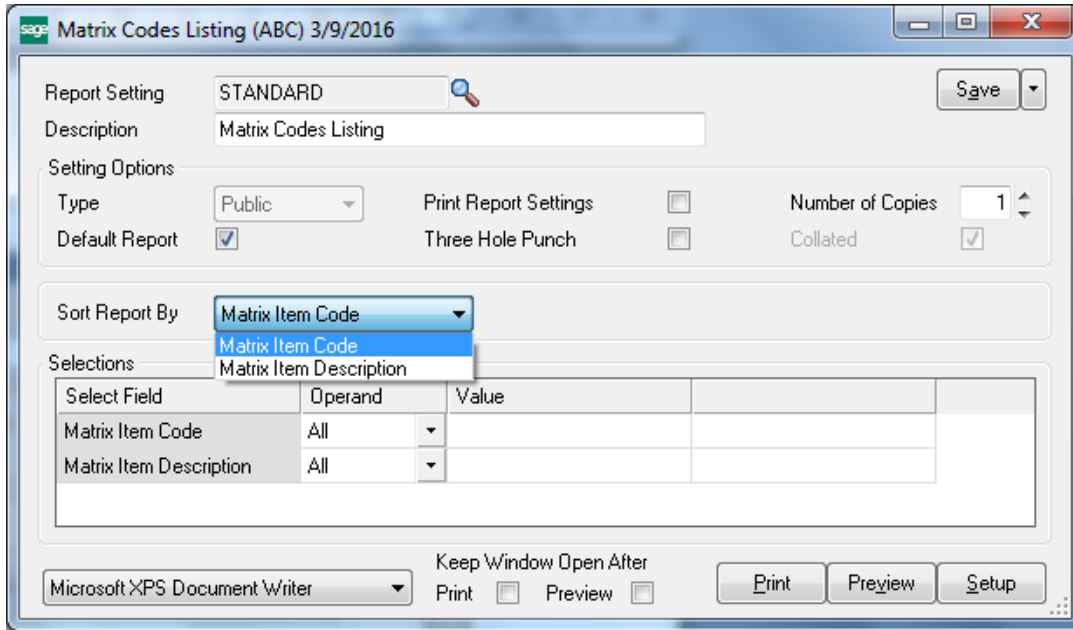
The Matrix Codes already entered for the destination Item will be retained, and the copied Codes will be added. If the Code being copied already exists, it is retained with all options and not overwritten by the added Code.



The **UPC** button links to **Matrix Item UPC Code Maintenance** for the selected Item. If there are UPC codes already generated for current Item Matrix Lots, they will be loaded.

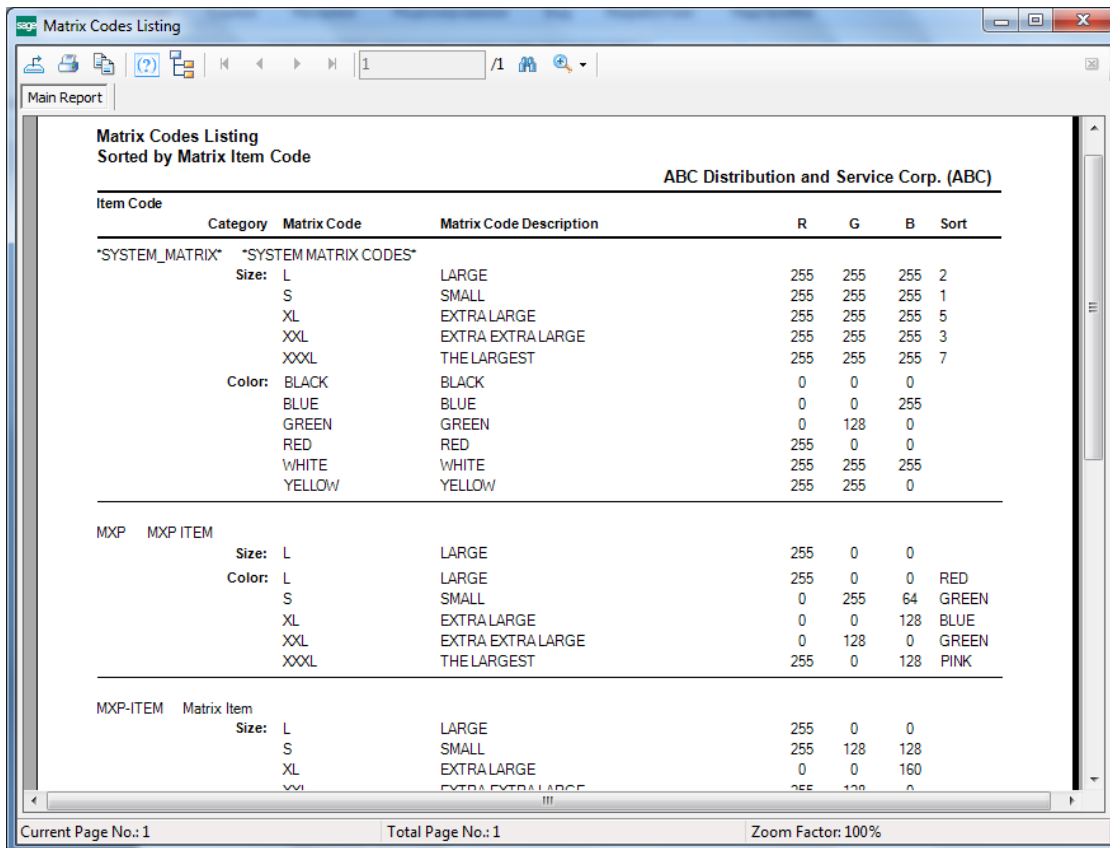


Pint button allows printing the Matrix Codes listing:



The report can be printed sorted by **Matrix Item Code** or **Matrix Item Description**. Default setting is Matrix Item Code.

Here is an example of printout for the report sorted by Matrix Item Code:

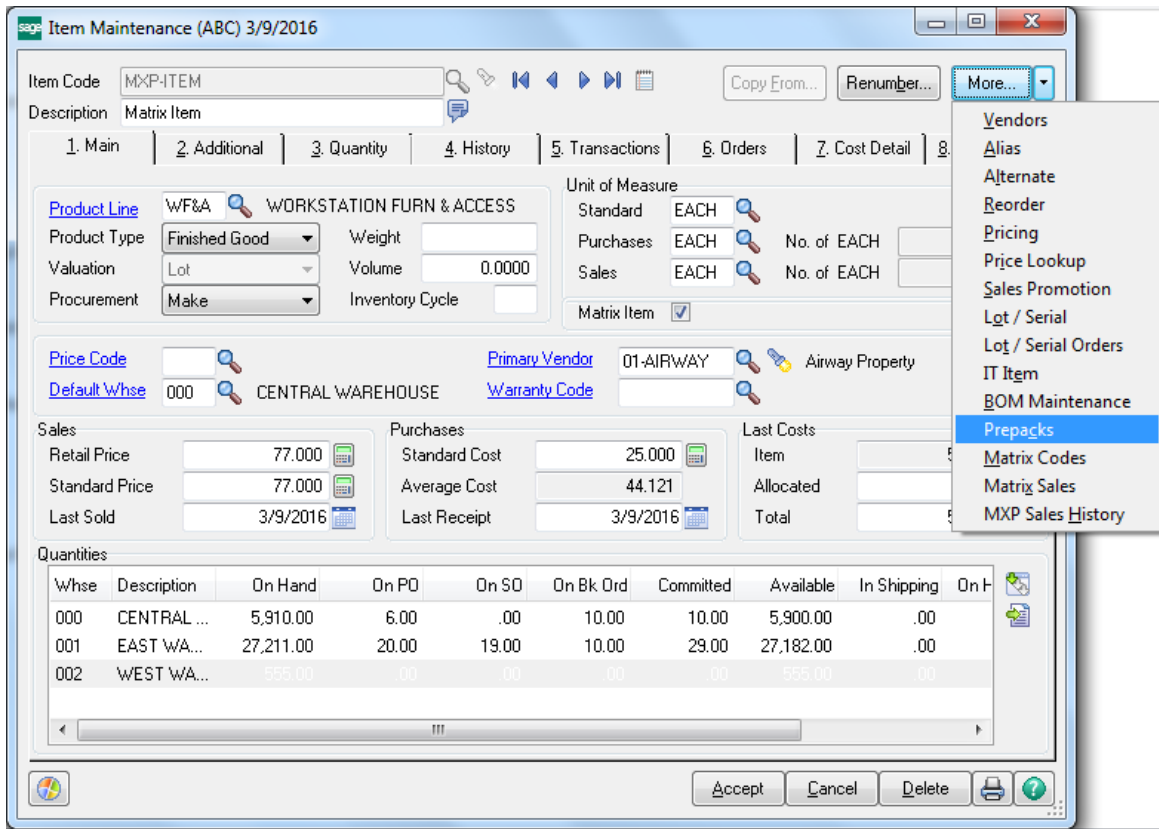


This report is accessible also from Inventory Management Reports menu. The initial grid is constructed from the Matrix Codes of the selected Item, if it has at least one Code of each Category. Otherwise system's Matrix Codes are used.

Prepacks

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

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



Prepack Code Maintenance (ABC) 3/9/2016

Item Code: MXP-ITEM Matrix Item

Customer No. [Search Icon]

Prepack Code [Search Icon]

Description [Search Icon]

Enter quantities by: Columns

	L	S	XL	XXL	XXXL
WHITE	.00	.00	.00	.00	.00
GREEN	.00	.00	.00	.00	.00
YELLOW	.00	.00	.00	.00	.00
RED	.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:

Prepack Code Maintenance (ABC) 3/9/2016

Item Code: MXP-ITEM Matrix Item

Customer No. [Search]

Prepack Code: SSIZE [Search]

Description: S_Size items Enter quantities by: Columns

	L	S	XL	XXL	XXXL
WHITE	.00	.00	.00	.00	.00
GREEN	.00	.00	.00	.00	.00
YELLOW	.00	.00	.00	.00	.00
RED	.00	.00	.00	.00	.00

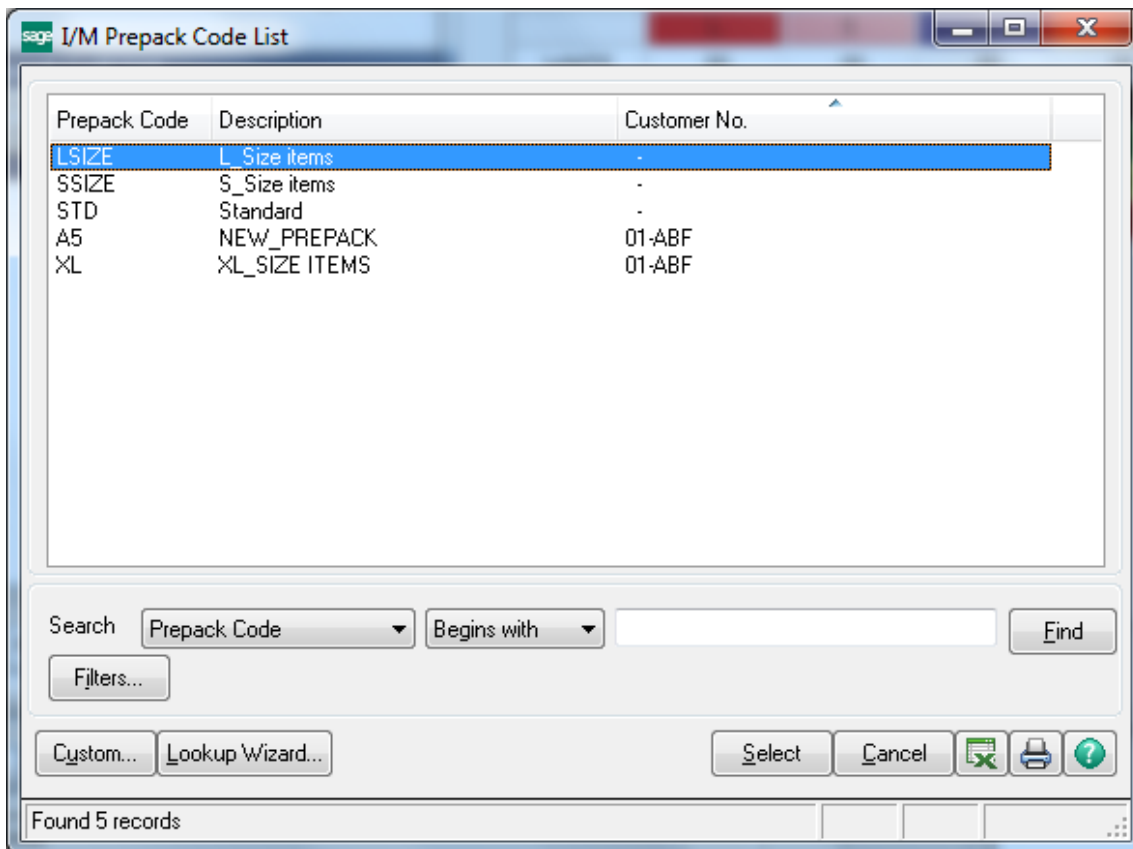
Accept Cancel Delete

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).

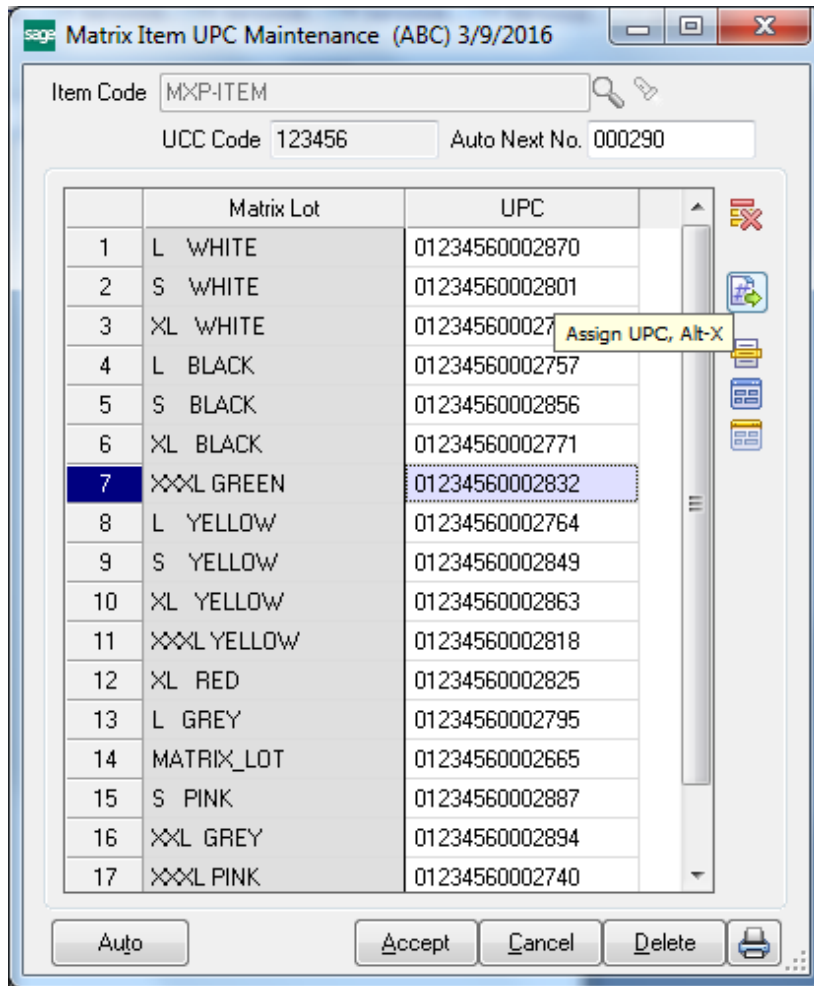


The initial grid is constructed from the Matrix Codes of the selected Item, if it has at least one Code of each Category. Otherwise system's Matrix Codes are used.

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.



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

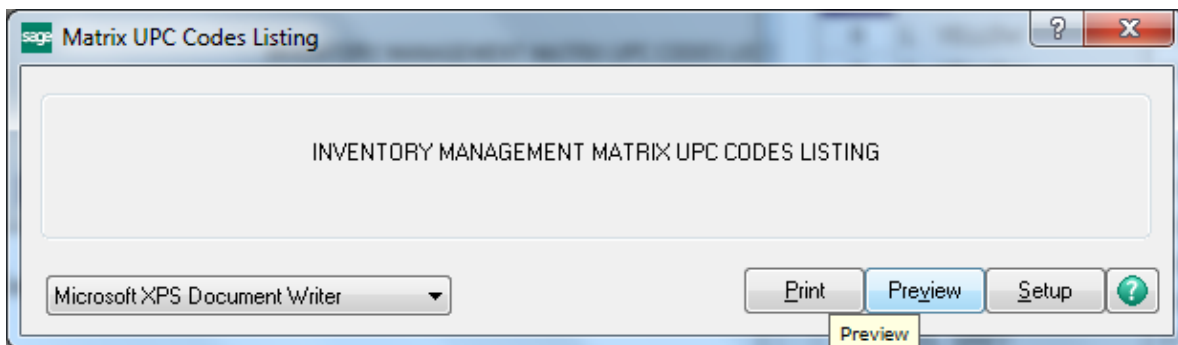
- this button allows loading the System Matrix Codes setup in the system.

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:

The screenshot shows a software window titled "Matrix UPC Codes Listing" for "ABC Distribution and Service Corp. (ABC)". The window contains a table with the following data:

Item Code	Description Matrix Lot	UPC
MXP-ITEM	Matrix Item	
	L BLACK	01234560002757
	L WHITE	01234560002870
	L YELLOW	01234560002764
	L GREY	01234560002795
	MATRIX_LOT	01234560002665
	S BLACK	01234560002856
	S WHITE	01234560002801
	S YELLOW	01234560002849
	S PINK	01234560002887
	XL BLACK	01234560002771
	XL RED	01234560002825
	XL WHITE	01234560002788
	XL YELLOW	01234560002863
	XXL GREY	01234560002894
	XXXL GREEN	01234560002832
	XXXL PINK	01234560002740
	XXXLYELLOW	01234560002818

At the bottom of the window, the status bar shows: Current Page No.: 1, Total Page No.: 1, and Zoom Factor: 100%.

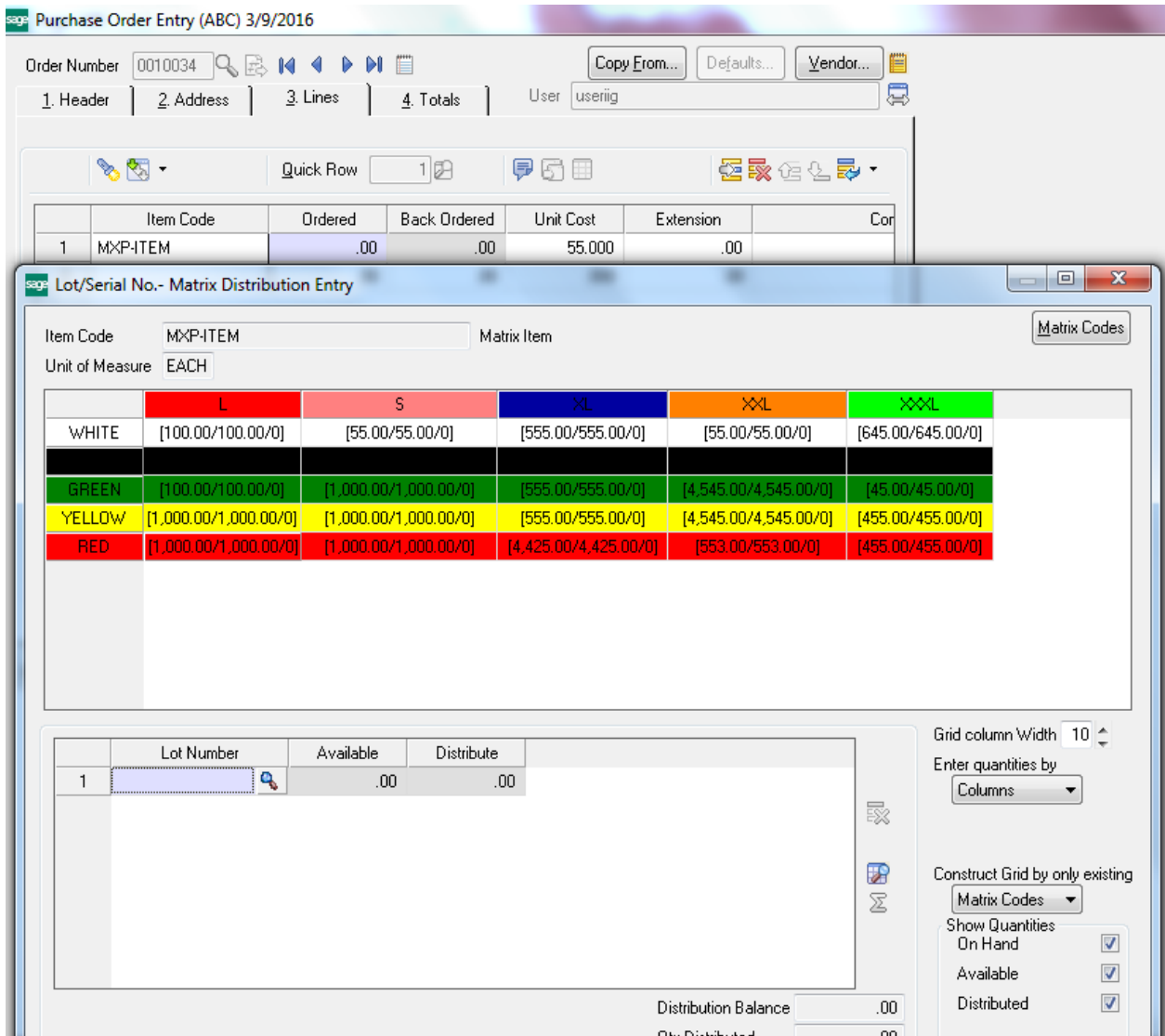
Matrix Distribution

Purchase Order Entry

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

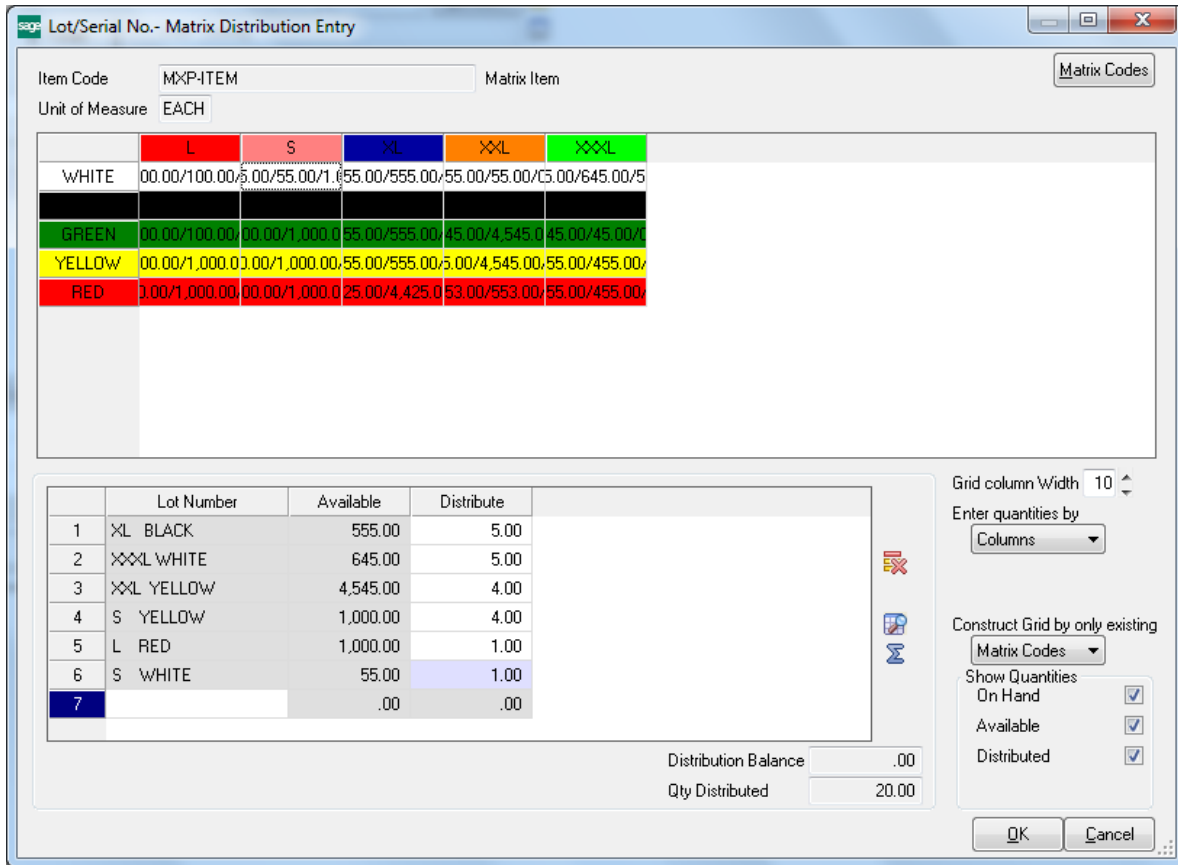
The Matrix Distribution is allowed for Standard Order Type and Repeating Orders (if corresponding checkbox is selected on the Purchase Order tab of the Matrix Options). For Repeating Orders the distributed quantities are not committed to the corresponding warehouse.

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.

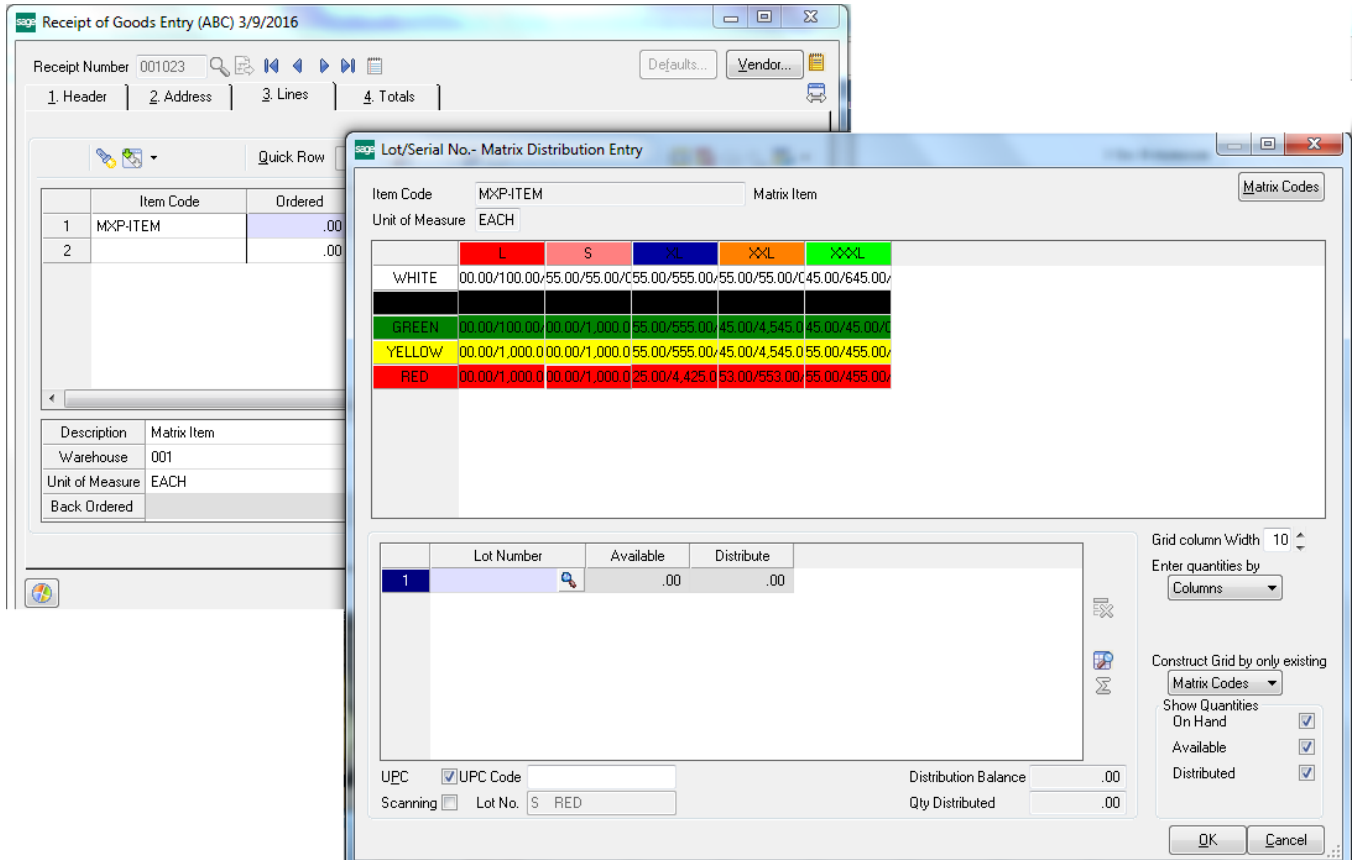
If the Allow only existing Matrix Codes box is checked in the Matrix Options program, then only Lot Numbers containing existing Matrix Codes are allowed to be entered. If the check box is cleared, you can enter Lot Numbers with new Matrix Codes (not entered in the Matrix Code Maintenance). If the Grid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

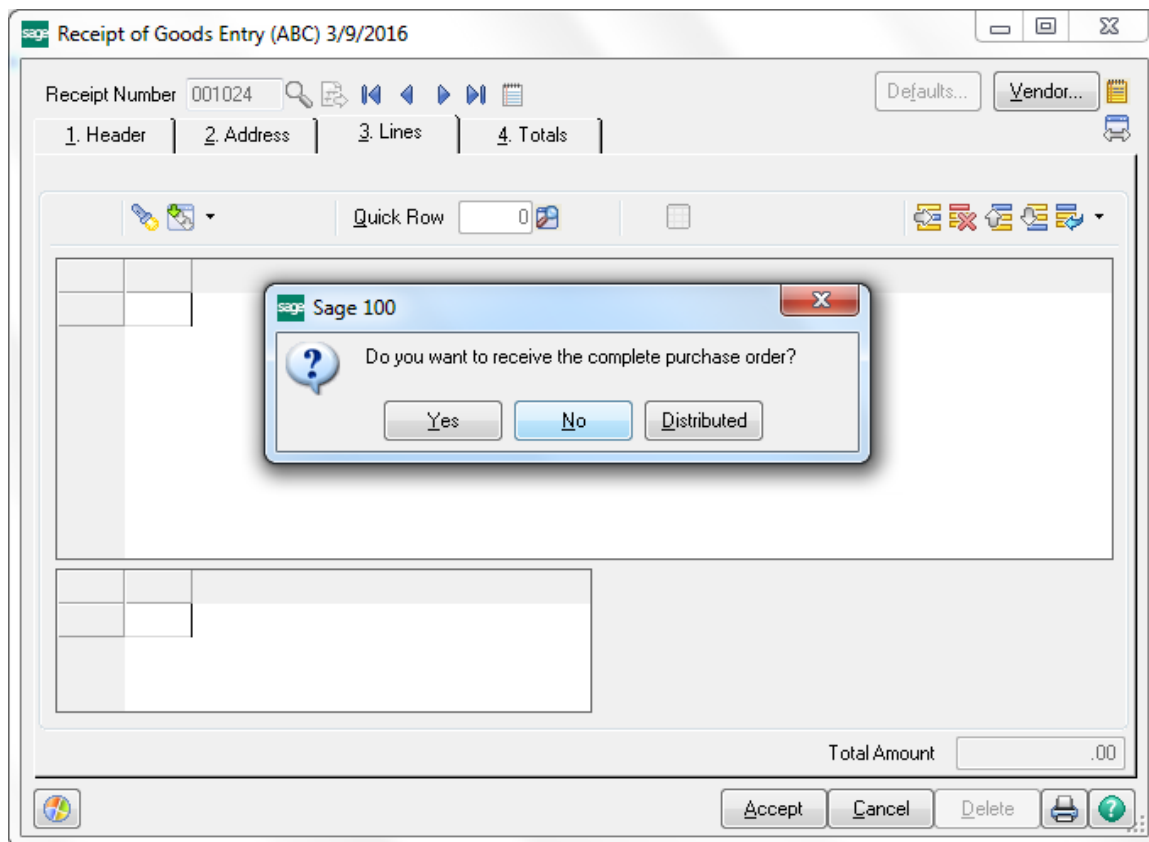
The **Quantity On PO** field displays the distributed quantities on Purchase Order.

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	20.00	15.00	55.000	825.00	
2	MXP_ITEM	20.00	20.00	.000	.00	
3		.00	.00	.000	.00	

Warehouse: 001
Unit of Measure: EACH
Back Ordered: 5.00
Required Date: 3/9/2016

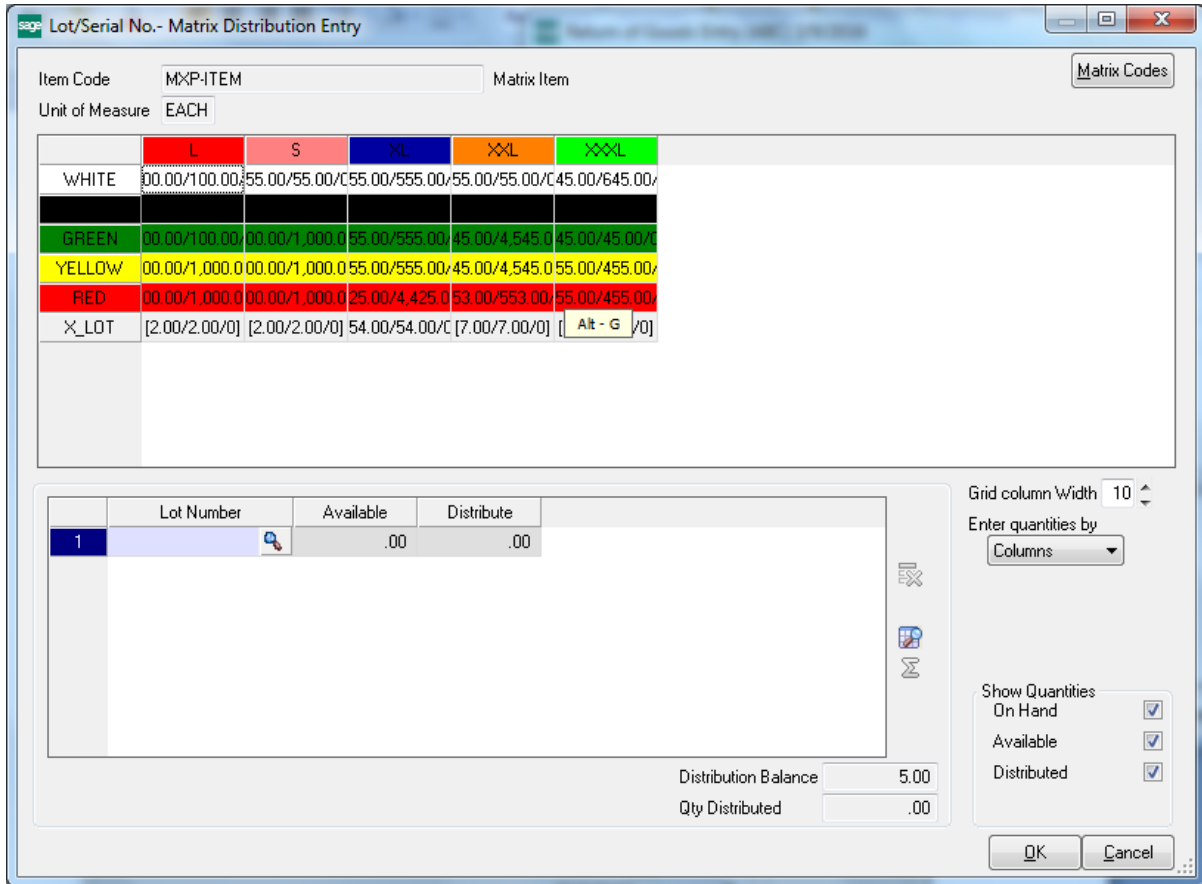
Enter qty received (Orig Order:20, Received to Date:0, Invoiced to Date:0) Total Amount: 825.00

Accept Cancel Delete

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**.*

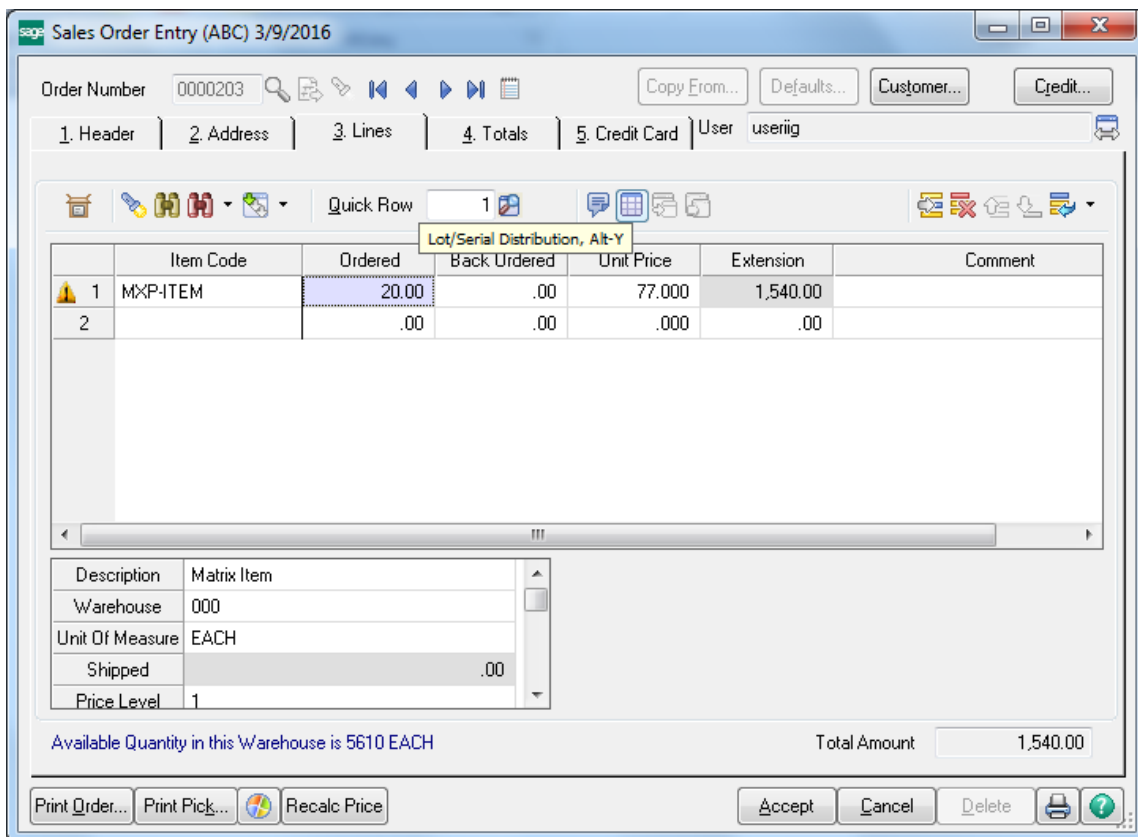
When running the **Return Order Register/Update** program checking is performed by **Qty On Hand** and error log is printed to prevent the user from updating the journal if the total **Qty Returned** for some lot number by Warehouse exceeds the **Qty On Hand** for it.

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.

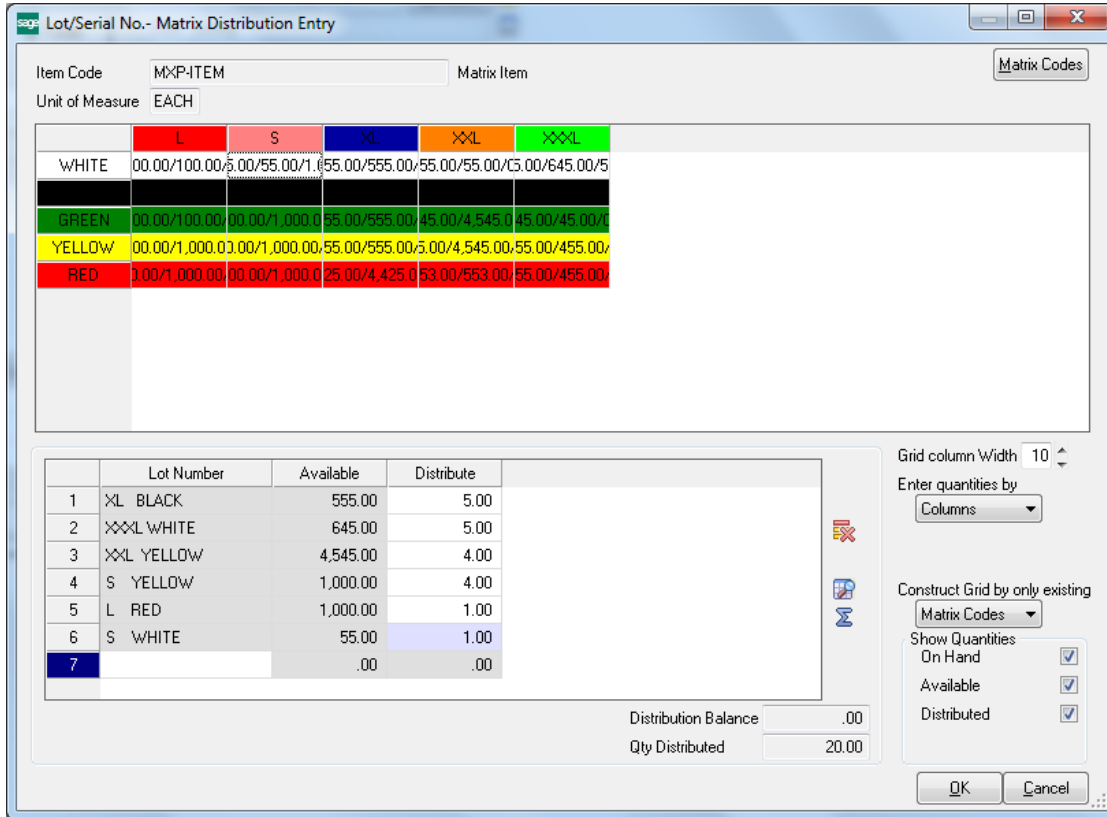


The quantity should be distributed in the **Matrix Distribution** screen, which is similar to the screen in the **Receipt of Goods** program.

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.

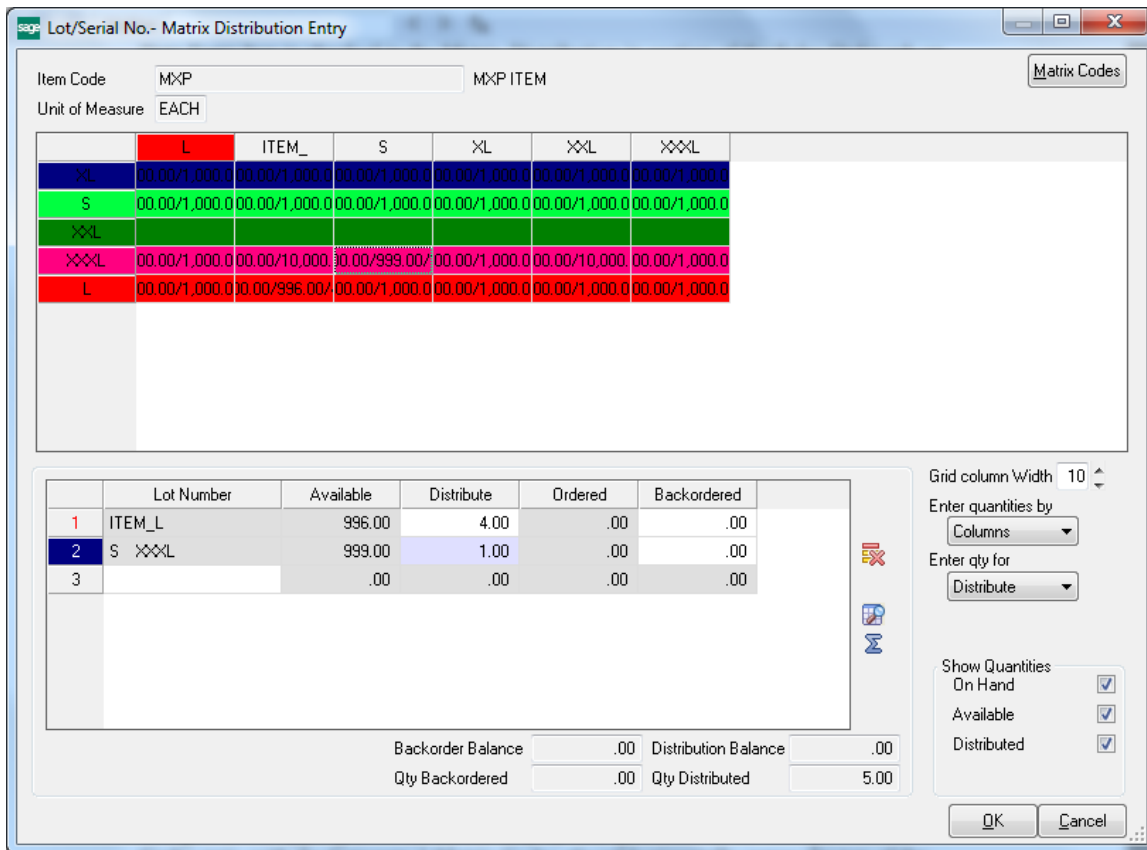
Matrix distribution entered for the Price Quote is preserved when converting to Standard Order.

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:

The screenshot shows the 'Lot/Serial No.- Matrix Distribution Entry' window. At the top, the Item Code is 'MXP:ITEM' and the Unit of Measure is 'EACH'. The Matrix Codes section contains a table with columns for sizes (L, S, XL, XXL, XXXL) and a 'Matri' column. The rows represent colors: WHITE, GREEN, YELLOW, RED, and X_LOT. Each cell in the matrix contains a quantity and a price in parentheses.

	L	S	XL	XXL	XXXL	Matri
WHITE	[3.00/3.00/0]	[3.00/3.00/0]		3.00/2.00/6.00		
GREEN		[7.00/6.00/0]	[0/0/0]		[5.00/0/5.00]	
YELLOW		[5.00/0/5.00]	[1.00/1.00/0]	[0/0/0]		
RED	[4.00/3.00/0]	[0/0/0]	5.00/1.00/4.00		[0/0/0]	
X_LOT						55.00/5,555.0

Below the matrix is a summary table with columns for Lot Number, Lot Description, Available, and Distribute.

	Lot Number	Available	Distribute
1	S YELLOW	.00	5.00
2	XXXL GREEN	.00	5.00
3	XXL WHITE	2.00	6.00
4	XL RED	1.00	4.00
5		.00	.00

At the bottom right, there are summary fields: Distribution Balance (.00) and Qty Distributed (20.00). There are also checkboxes for 'Show Quantities' (On Hand, Available, Distributed) and buttons for 'OK' and 'Cancel'.

Here is the Order invoiced:

The screenshot shows the Sage S/O Invoice Data Entry window for invoice 0100077, dated 3/9/2016. The window has a menu bar with '1. Header', '2. Address', '3. Lines', '4. Totals', and '5. Credit Card'. Below the menu bar is a toolbar with various icons and a 'Quick Row' dropdown set to '1'. The main area contains a table with the following data:

	Item Code	Ordered	Shipped	Unit Price	Extension	Comment
1	MXP4ITEM	20.00	10.00	77.000	770.00	
2		.00	.00	.000	.00	

Below the table is a scrollable area with the following details:

Description	Matrix Item
Warehouse	001
Unit Of Measure	EACH
Back Ordered	10.00
Price Level	1

At the bottom right of the window, the 'Total Amount' is displayed as 770.00. The bottom of the window features a 'Quick Print' button and a row of buttons: 'Accept', 'Cancel', 'Delete', a printer icon, and a help icon.

	L	S	XL	XXL	XXXL	MATRI
WHITE	13.00/13.00/C	13.00/13.00/C	10.00/10.00/C	3.00/12.00/3.00	10.00/10.00/C	10.00/10.00/C
GREEN	10.00/10.00/C	17.00/16.00/A	10.00/10.00/A	10.00/10.00/A	5.00/10.00/2.00	10.00/10.00/C
YELLOW	10.00/10.00/C	5.00/10.00/3.00	11.00/11.00/C	10.00/10.00/C	10.00/10.00/C	10.00/10.00/C
RED	14.00/13.00/C	10.00/10.00/C	5.00/11.00/2.00	10.00/10.00/C	10.00/10.00/C	10.00/10.00/C

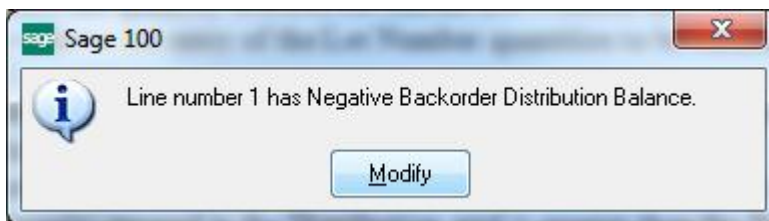
	Lot Number	Available	Distribute	Ordered	Backordered
1	S YELLOW	10.00	3.00	5.00	2.00
2	XL RED	11.00	2.00	4.00	2.00
3	XXL WHITE	12.00	3.00	6.00	3.00
4	XXXL GREEN	10.00	2.00	5.00	3.00
5		.00	.00	.00	.00

Backorder Balance: .00 Distribution Balance: .00
 Qty Backordered: 10.00 Qty Distributed: 10.00

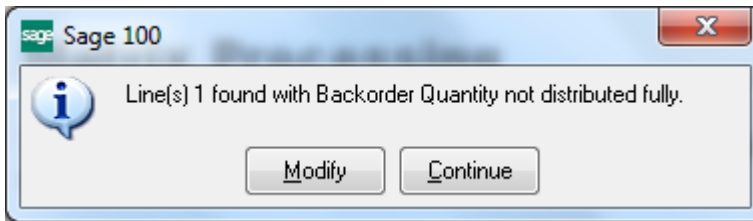
The Backorder quantity may be entered manually as well as calculated automatically upon entering the Distributed quantity. Upon entering the distributed quantity, backordered quantity is automatically calculated as follows: “Qty Ordered – Qty Distributed”.

- 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:

Sales Order Entry (ABC) 3/9/2016

Order Number: 0000203

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

Item Code	Ordered	Back Ordered	Unit Price	Extension
1 MXP-ITEM	20.00	10.00	77.000	770.00
2	.00	.00	.000	.00

Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP-ITEM Matrix Item

Unit of Measure: EACH

	L	S	XL	XXL	XXXL	MATRI
WHITE	13.00/13.00/C	13.00/13.00/C	10.00/10.00/C	5.00/12.00/4	10.00/10.00/C	10.00/10.00/C
GREEN	10.00/10.00/C	12.00/16.00/C	10.00/10.00/C	10.00/10.00/C	2.00/10.00/2	10.00/10.00/C
YELLOW	10.00/10.00/C	2.00/10.00/2	11.00/11.00/C	10.00/10.00/C	10.00/10.00/C	10.00/10.00/C
RED	14.00/13.00/C	10.00/10.00/C	3.00/11.00/2	10.00/10.00/C	10.00/10.00/C	10.00/10.00/C
X_LOT	10.00/10.00/C					55.00/5,555.0

Lot Number	Available	Distribute
1 S YELLOW	10.00	2.00
2 XL RED	11.00	2.00
3 XXL WHITE	12.00	4.00
4 XXXL GREEN	10.00	2.00
5	.00	.00

Distribution Balance: .00
Qty Distributed: 10.00

Grid column Width: 10
Enter quantities by: Columns

Show Quantities:
On Hand
Available
Distributed

OK Cancel

Available Quantity in this Warehouse is 5910 EACH

Total Amount: 770.00

Print Order... Print Pkg... Recalc Price

Accept Cancel Delete

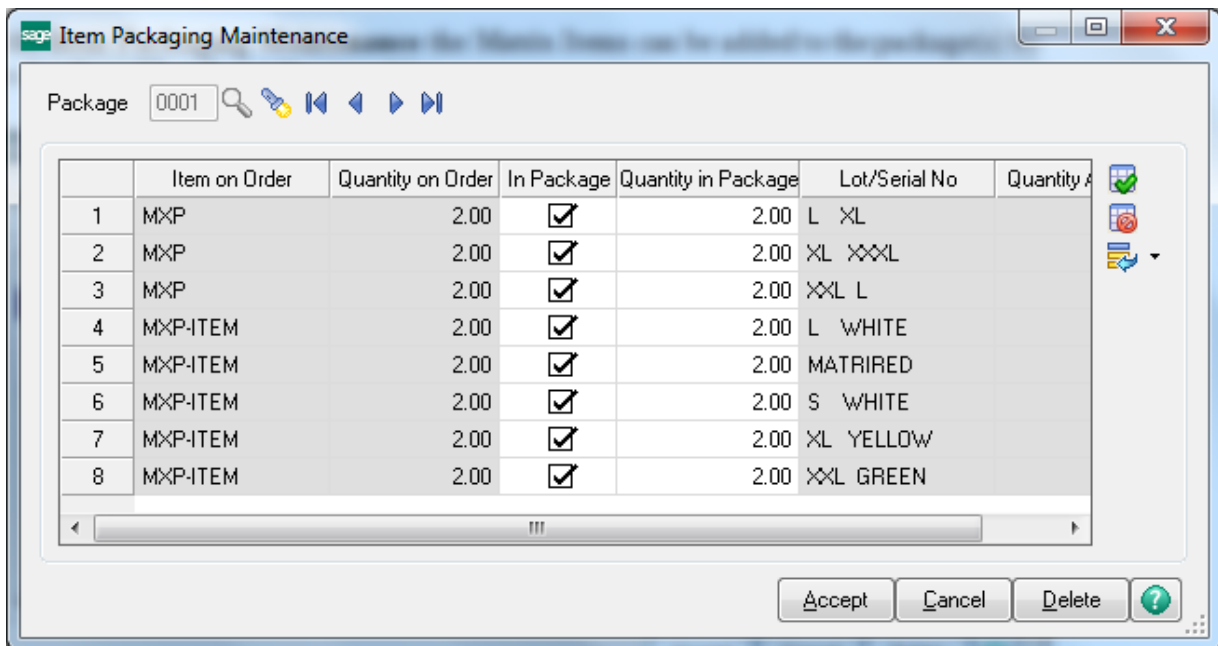
The distribution in the created backorder is done based on the backordered quantities entered in the Invoice Matrix Distribution screen.

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.

Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP-ITEM Matrix Item: Matrix Codes

Unit of Measure: EACH

	L	S	XL	XXL	XXXL
WHITE	[100.00/90.00/0]	[55.00/55.00/0]	[555.00/555.00/0]	[55.00/55.00/0]	[645.00/645.00/0]
GREEN	[100.00/100.00/0]	[1,000.00/1,000.00/0]	[555.00/555.00/0]	[4,545.00/4,543.00/0]	[45.00/45.00/0]
YELLOW	[1,000.00/1,000.00/0]	[1,000.00/1,000.00/0]	[555.00/555.00/0]	[4,545.00/4,545.00/0]	[455.00/455.00/0]
RED	[1,000.00/1,000.00/0]	[1,000.00/999.00/0]	[4,425.00/4,425.00/0]	[553.00/553.00/0]	[455.00/455.00/0]

	Lot Number	Available	Distribute
1		.00	.00

Grid column Width: 14

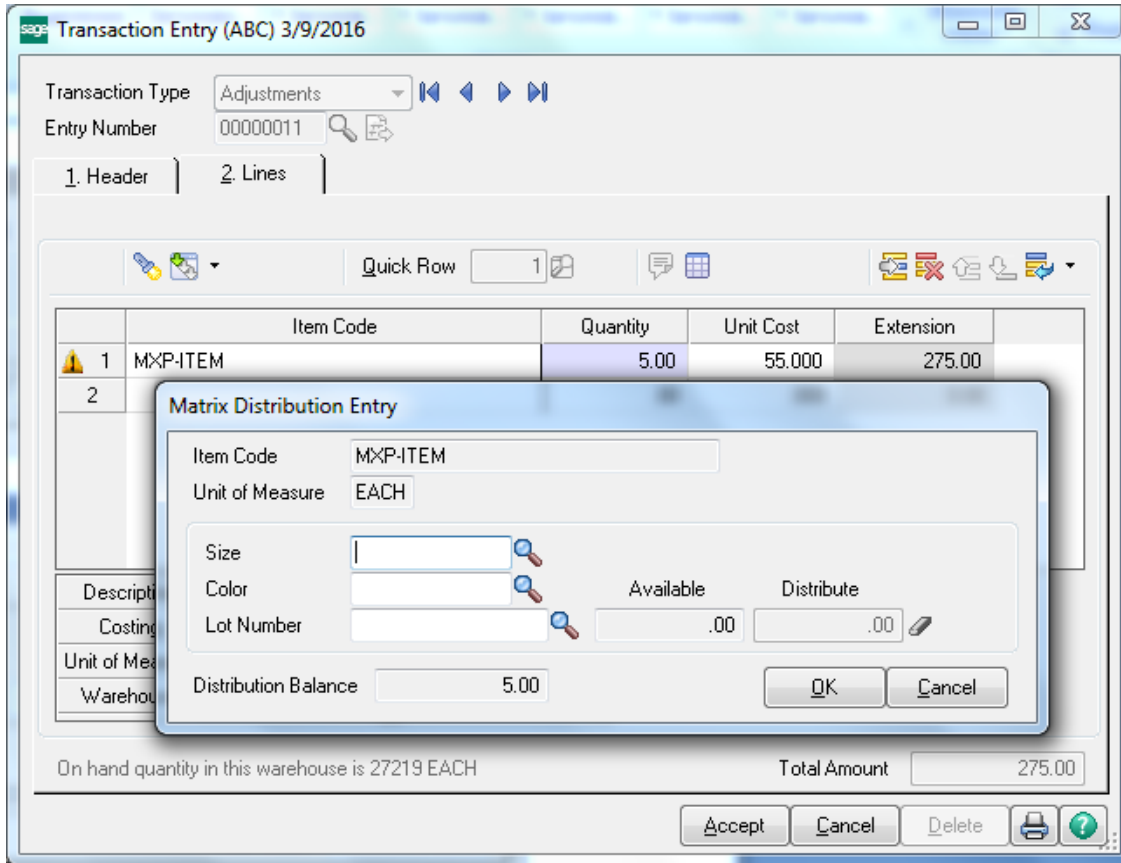
Enter quantities by: Columns

Show Quantities: On Hand Available Distributed

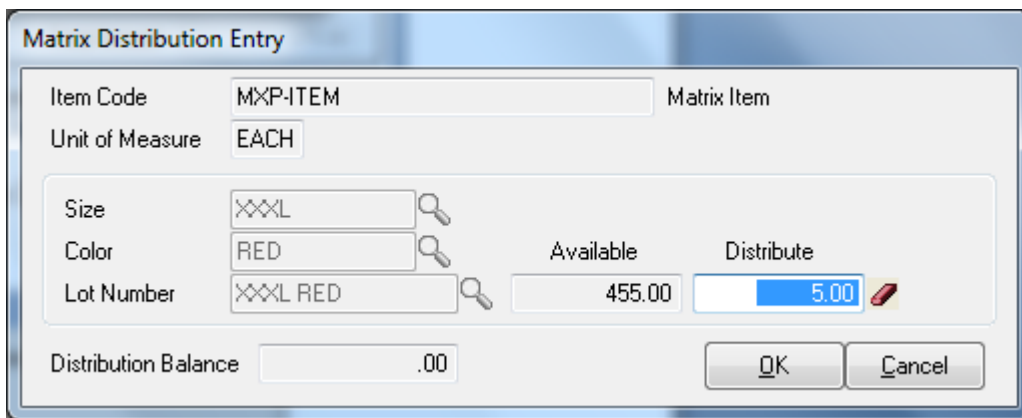
Distribution Balance: .00
Qty Distributed: .00

OK Cancel

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.



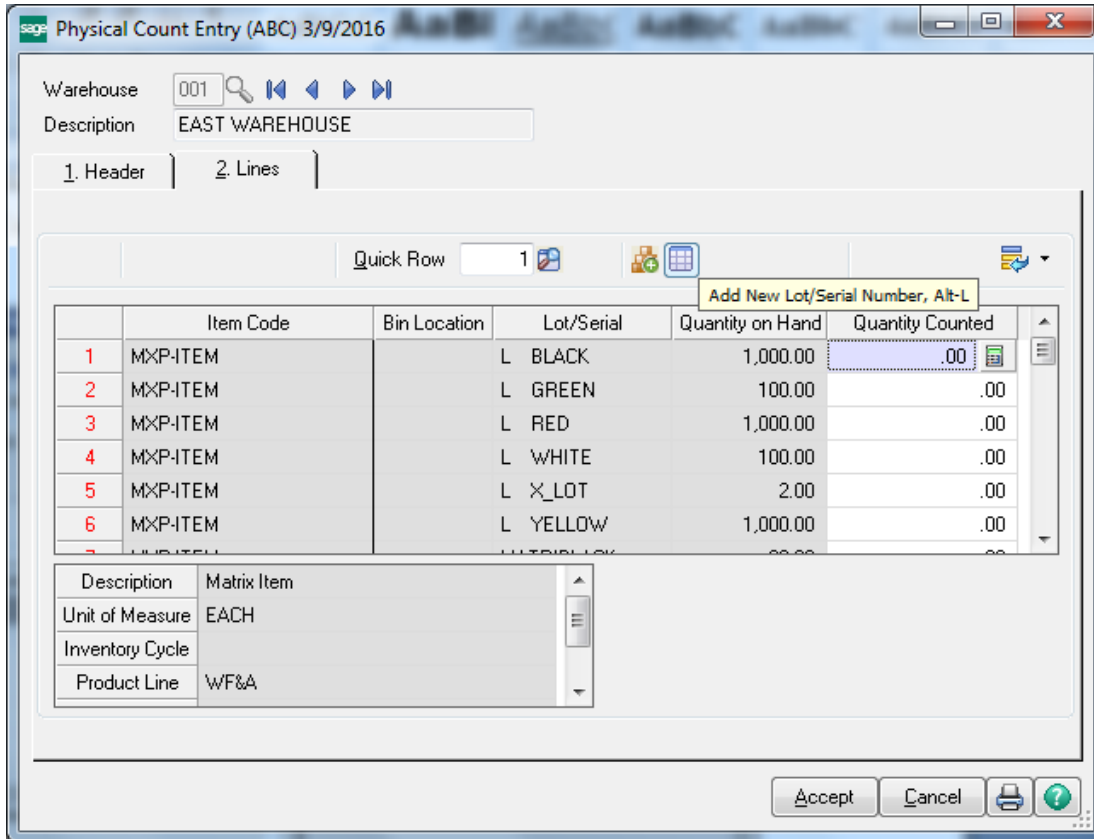
The user may select the Size and Color code to create the Lot Number automatically or specify an existing Lot Number.



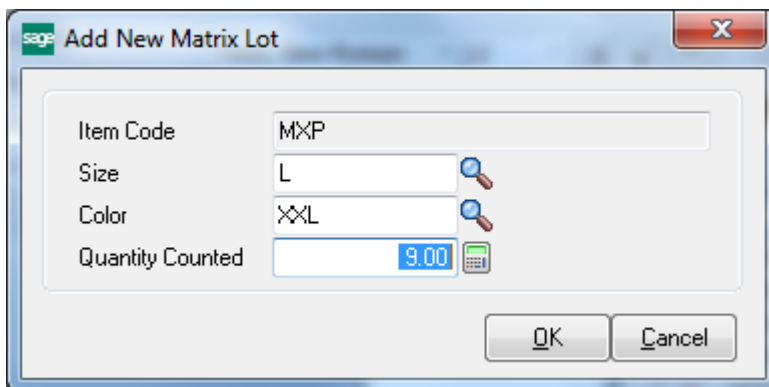
During the Transaction Register Update, checking is performed by the Matrix item Lot Committed Qty by warehouse and error log is printed to prevent the user from updating transaction journal if the Qty Committed in the I/M Transactions for some lot number by Warehouse exceeds the **Qty On Hand** for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

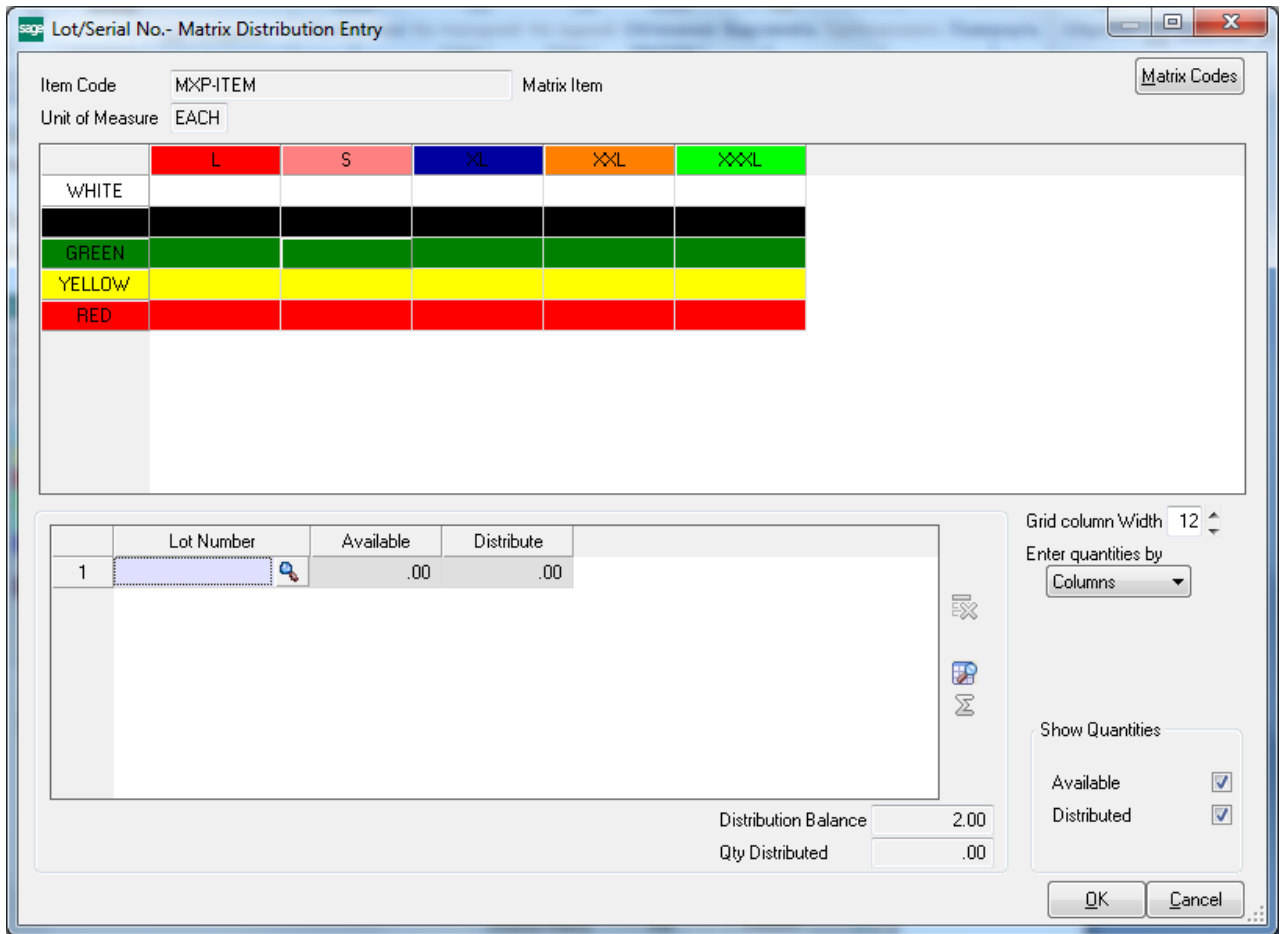


Enter Codes of the first and second Categories, which descriptions are displayed. You can enter new Matrix Codes, or enter/select existing Matrix Code from the lookup.

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.

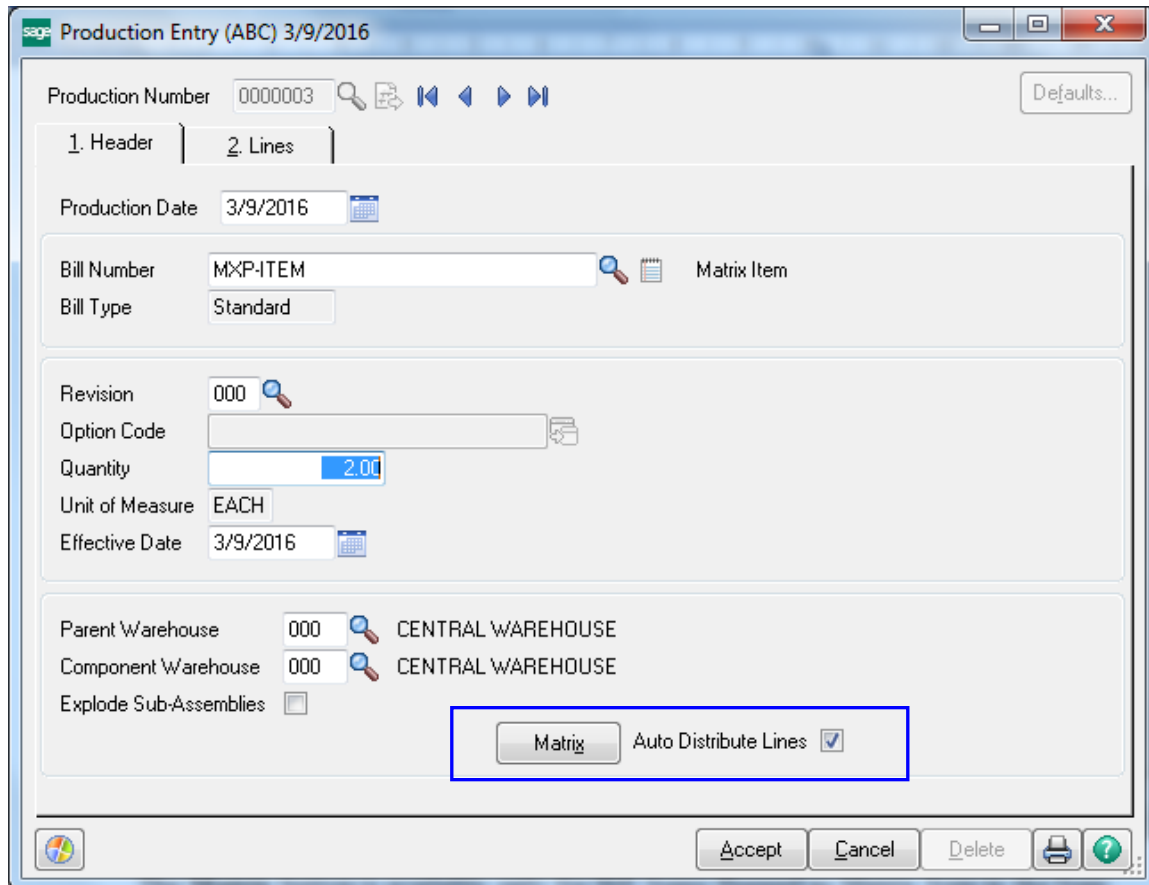
The Matrix Distribution screen for the **RMA Entry** programs is like the one in the **Invoice Data Entry** program.



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 **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:

Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP2 MXP_ITEM Matrix Codes

Unit of Measure: EACH

	S	L	XXL	XL	XXXL
BLUE			[10.00/0]		
GREEN		[10.00/0]			
RED	[10.00/0]				
WHITE					
YELLOW				[10.00/0]	

	Lot Number	Available	Distribute
1	L GREEN	4.00	6.00
2		.00	.00

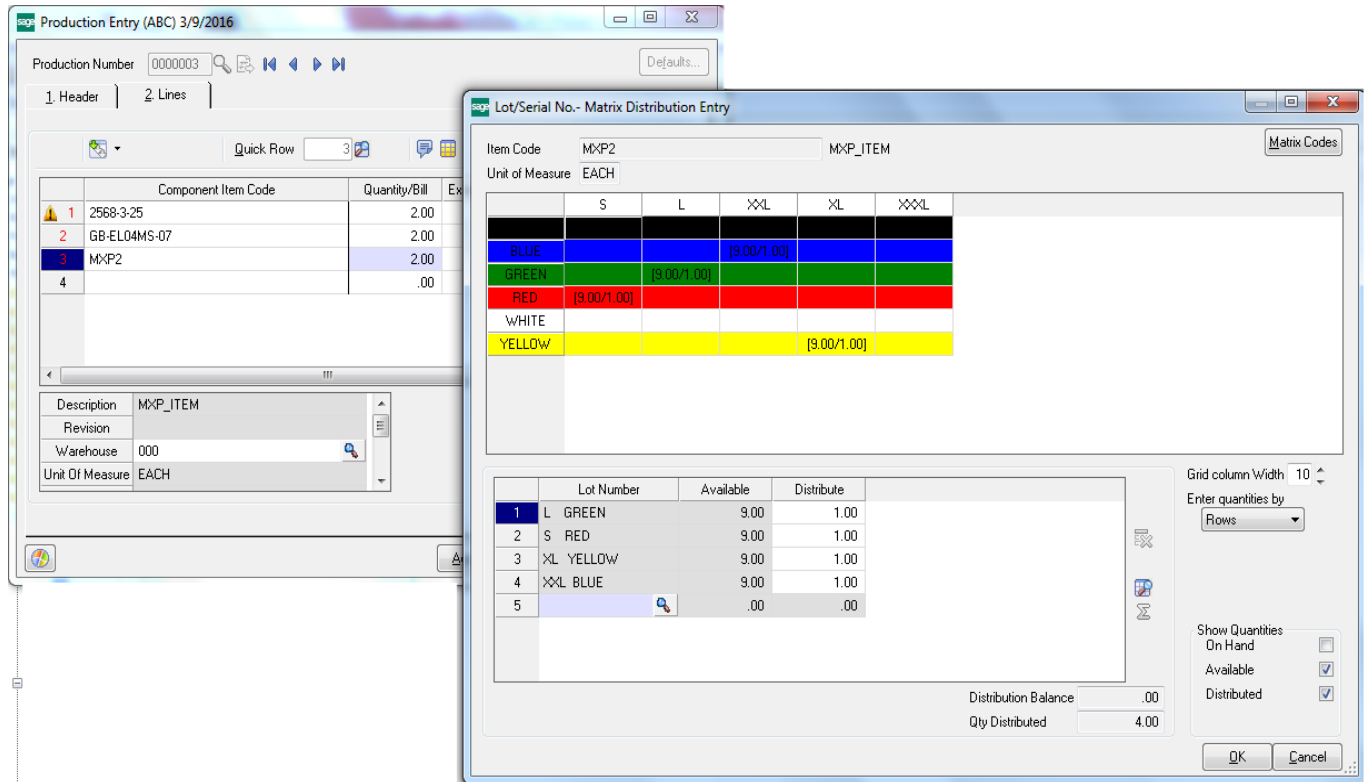
Distribution Balance: 6.00
Qty Distributed: .00

Grid column Width: 10
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.

Disassembly Entry (ABC) 3/9/2016

Disassembly Number 0000001

1. Header | 2. Lines

Disassembly Date 3/9/2016

Bill Number MXP-ITEM Matrix Item

Bill Type Standard

Revision 000

Option Code

Quantity 1.00

Unit of Measure EACH

Effective Date 3/9/2016

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.

Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP-ITEM Matrix Item: Matrix Codes

Unit of Measure: EACH

	L	S	XL	XXL	XXXL	MATRI
WHITE				[8.00/0]		
GREEN		[1.00/1.00]				
YELLOW			[1.00/0]			
RED	[3.00/1.00]					
X_LOT						[5.555.00/0]

	Lot Number	Available	Distribute
1	S GREEN	1.00	1.00
2	L RED	3.00	1.00
3		.00	.00

Distribution Balance: .00
Qty Distributed: 2.00

Grid column Width: 10
Enter quantities by: Rows
Show Quantities: On Hand Available Distributed

OK Cancel

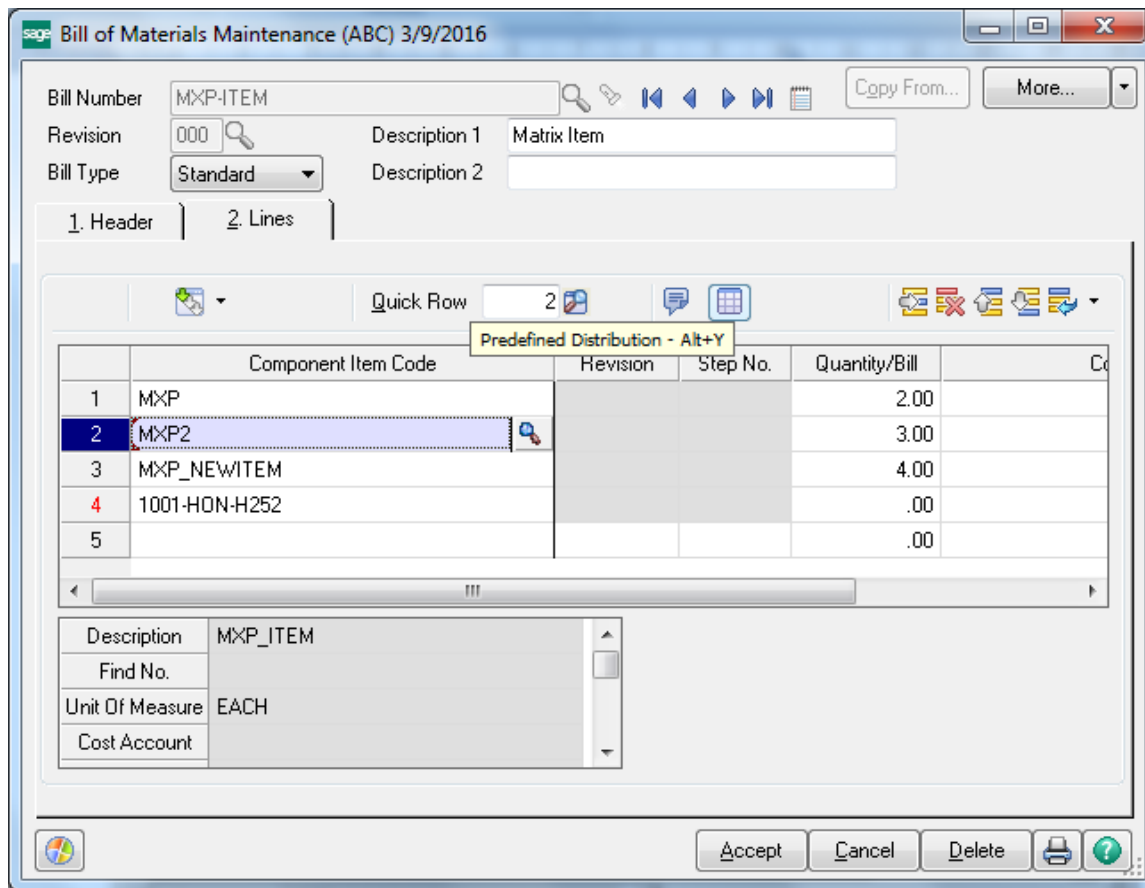
The Matrix Distribution screen for the **Disassembly Entry** program is the same as in the **Production Entry** program.

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.



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

Predefined Distribution Maintenance

Bill Number MXP-ITEM Matrix Item

Item Code MXP2 MXP_ITEM

Bill Lot No. L BLACK

Component Lot Number	Quantity
1	.00

Balance 3.00 Quantity 3.00

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.

Bill Number MXP-ITEM Matrix Item

Item Code MXP2 MXP_ITEM

Bill Lot No. L BLACK

	Component Lot Number	Quantity
1	L BLACK	1.00
2	XL GREEN	1.00
3	XXL RED	1.00
4		.00

Balance .00 Quantity 3.00

Close

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

Predefined Distribution Maintenance

Bill Number: MXP-ITEM Matrix Item

Item Code: MXP2 MXP_ITEM

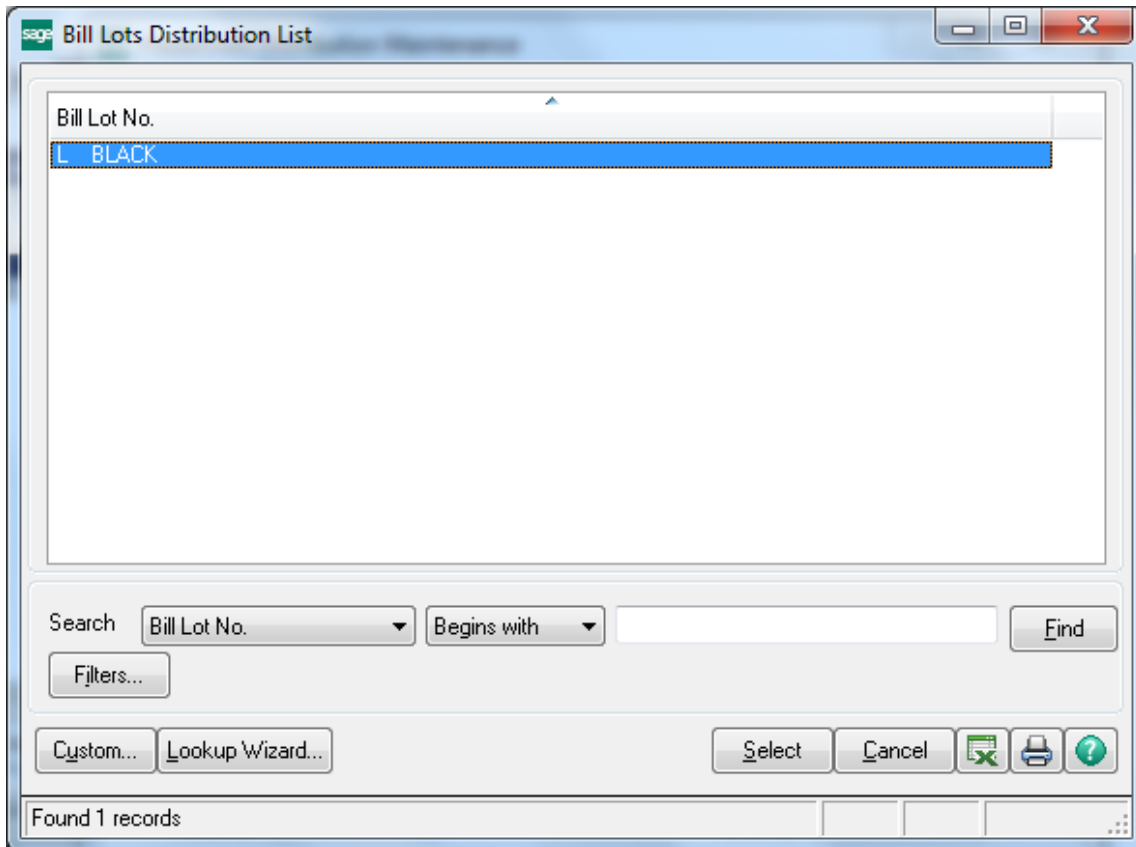
Bill Lot No. L BLACK

Existing Bill Lots List

	Component	Quantity
1	L BLACK	1.00
2	XL GREEN	1.00
3	XXL RED	1.00
4		.00

Balance: .00 Quantity: 3.00

Close



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.

Purchase Order Inquiry (ABC) 3/9/2016

Order Number: 0010036

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

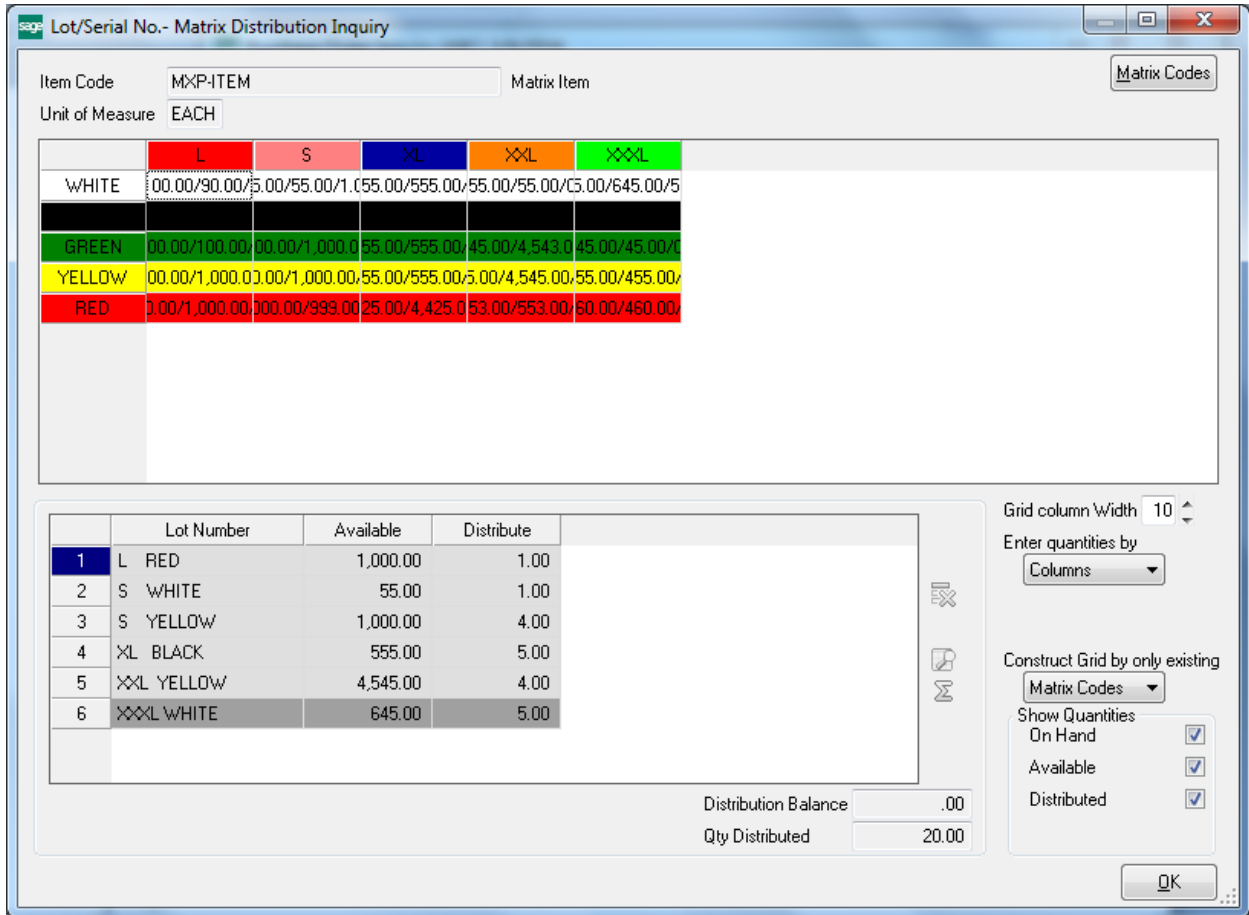
Quick Row: 1

	Item Code	Ordered	Back Ordered	Unit Cost	Extension	Cor
1	MXP-ITEM	20.00	.00	55.000	1,100.00	

Description: Matrix Item
Warehouse: 001
Unit of Measure: EACH
Ordered to Date+1: .00

Enter qty ordered for vendor item no: MXP-ITEM (Qty on PO: 0 Avail: 27182 EACH) Total Amount: 1,100.00

Quick Print... OK



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.

Report Setting: STANDARD

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: 2015, Ending: 2016, 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:

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

Microsoft XPS Document Writer | 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: 2015 To: 2016

ABC Distribution and Service Corp. (ABC)

Item Code	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
MXP	MXP ITEM											
Size	L	Color	XL									
ProdLine:	WF&A											
Prod Type:	Finished Good											
UM:	EACH											
Customer Number:	01-ABF American Business Futures											
Year:	2015											
Quantity Sold:	0	0	4	0	0	0	0	0	0	0	0	0
Dollars Sold:	0	0	0	0	0	0	0	0	0	0	0	0
Gross Profit Percent:	0.00%	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	L									
Customer Number:	01-ABF American Business Futures											
Year:	2016											
Quantity Sold:	0	0	16	0	0	0	0	0	0	0	0	0
Dollars Sold:	0	0	0	0	0	0	0	0	0	0	0	0
Gross Profit Percent:	0.00%	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	S	Color	XL									
Customer Number:	01-ABF American Business Futures											
Year:	2015											
Quantity Sold:	0	0	4	0	0	0	0	0	0	0	0	0
Dollars Sold:	0	0	0	0	0	0	0	0	0	0	0	0
Gross Profit Percent:	0.00%	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	S	Color	XXXL									
Customer Number:	01-ABF American Business Futures											
Year:	2015											
Quantity Sold:	0	0	2	0	0	0	0	0	0	0	0	0

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

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	

Microsoft XPS Document Writer

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

ABC Distribution and Service Corp. (ABC)

Item Code/Description Primary Vendor Number	Product Line	Product Type	Unit Of Measure	Whse	Size	Color	Quantity		Reorder Point	Average Cost
							On Hand	Available		
MXP MXP ITEM	WF&A	Finished Good	EACH	000	ITEM_	MXP	5,555.00	5,555.00	Cycle: 0.00	0.000
					L	MXP	10.00	10.00		
					ITEM_	XL	1,000.00	1,000.00		
					L	XL	1,000.00	1,000.00		
					ITEM_	S	1,000.00	1,000.00		
					L	S	1,000.00	1,000.00		
					ITEM_	XXXL	10,000.00	10,000.00		
					L	XXXL	1,000.00	1,000.00		
					ITEM_	L	1,000.00	1,000.00		
					L	L	1,000.00	1,000.00		
					S	MXP	1,001.00	1,001.00		
					S	XL	1,000.00	1,000.00		
					S	S	1,000.00	1,000.00		
					S	XXXL	1,000.00	1,000.00		
					S	L	1,000.00	1,000.00		
					XXL	MXP	100.00	100.00		
					XXL	XL	1,000.00	1,000.00		
					XXL	S	1,000.00	1,000.00		
					XXL	XXXL	10,000.00	10,000.00		
					XXL	L	1,000.00	1,000.00		
					XL	MXP	1,000.00	1,000.00		
					XL	XL	1,000.00	1,000.00		
					XL	S	1,000.00	1,000.00		
					XL	XXXL	1,000.00	1,000.00		
					XL	L	1,000.00	1,000.00		
					XXXL	MXP	1,010.00	1,010.00		
					XXXL	XL	1,000.00	1,000.00		
					XXXL	S	1,000.00	1,000.00		
					XXXL	XXXL	1,000.00	1,000.00		
					XXXL	L	1,000.00	1,000.00		
						Warehouse 000 Total:	50,878.00	50,878.00		
				001	ITEM		550.00	550.00	0.00	
					L		5.00	5.00		
					L	XL	55,551.00	55,551.00		
					ITEM	S	553.00	553.00		

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

ABC Distribution and Service Corp. (ABC)

Item Code/Description	Primary Vendor Number	Product Line	Product Type	Unit Of Measure	White	Reorder Point	Average Cost
MXP MXP ITEM		WF&A	Finished Good	EACH	000	Cycle: 0.00	0.000
			LARGE	Total			
EXTRA LARGE	On Hand	1,000.00	1,000.00				
EXTRA LARGE	Available	1,000.00	1,000.00				
EXTRA EXTRA	On Hand	0.00	0.00				
EXTRA EXTRA	Available	0.00	0.00				
SMALL	On Hand	1,000.00	1,000.00				
SMALL	Available	1,000.00	1,000.00				
THE LARGEST	On Hand	1,000.00	1,000.00				
THE LARGEST	Available	1,000.00	1,000.00				
LARGE	On Hand	1,000.00	1,000.00				
LARGE	Available	1,000.00	1,000.00				
Total	On Hand	4,000.00	4,000.00				
Total	Available	4,000.00	4,000.00				
				001			0.00
			LARGE	Total			
EXTRA LARGE	On Hand	55,551.00	55,551.00				
EXTRA LARGE	Available	55,551.00	55,551.00				
EXTRA EXTRA	On Hand	0.00	0.00				
EXTRA EXTRA	Available	0.00	0.00				
SMALL	On Hand	0.00	0.00				
SMALL	Available	0.00	0.00				
THE	On Hand	55,555.00	55,555.00				

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.

Matrix Committed Report (ABC) 3/9/2016

Report Setting: STANDARD

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 XXXL
Matrix Color	Range	BLACK YELLOW

Microsoft XPS Document Writer

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:

Matrix Committed Report
Sorted by Item Code

ABC Distribution and Service Corp. (ABC)

Item Code	Description	Primary Vendor Number	Product Line	Product Type	Unit Of Measure	Whse	Size	Color	Quantity							
									On Hand	On Purchase Order	On Sales Order	On Back Order	Other Committed	Available		
MXP	MXP ITEM		WF&A	Finished Good	EACH	000										Average Cost: 0.000
							L	XL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							L	S	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							L	XXXL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							L	L	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							S	XL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							S	S	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							S	XXXL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							S	L	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XXL	XL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XXL	S	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XXL	XXXL	10,000.00	0.00	0.00	0.00	0.00	0.00	10,000.00	
							XXL	L	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XL	XL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XL	S	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XL	XXXL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XL	L	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XXXL	XL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XXXL	S	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XXXL	XXXL	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							XXXL	L	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00	
							Warehouse 000 Total:		29,000.00	0.00	0.00	0.00	0.00	0.00	29,000.00	
						001	L	XL	55,551.00	0.00	0.00	0.00	0.00	0.00	55,551.00	
							L	XXXL	55,555.00	0.00	0.00	0.00	0.00	0.00	55,555.00	
							L	L	539.00	0.00	0.00	0.00	0.00	0.00	539.00	
							S	XL	5,551.00	0.00	0.00	0.00	0.00	0.00	5,551.00	
							S	XXXL	5,553.00	0.00	0.00	0.00	0.00	0.00	5,553.00	
							S	L	555.00	0.00	0.00	0.00	0.00	0.00	555.00	
							XXL	XL	555.00	0.00	0.00	0.00	0.00	0.00	555.00	
							XXL	S	555.00	0.00	0.00	0.00	0.00	0.00	555.00	
							XXL	XXXL	5,543.00	0.00	0.00	0.00	0.00	0.00	5,543.00	
							XXL	L	539.00	0.00	0.00	0.00	0.00	0.00	539.00	

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

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

ABC Distribution and Service Corp. (ABC)

Item Code Product Line	Item Description Product Type	Unit of Measure	Whse	Lot/serial Number	Receipt Number	Receipt Date	Quantity On Hand	Unit Cost	Inventory Value
Item AR 5-5401 Total:							91.00	65.227	5,935.65
CHROME KIT	CHROME LUGGAGE AND SIDE RAILS								
WF&A	Finished Good	FIFO	EACH	000			0.00	0.000	0.00
D1000	DESK 72" X 30"								
WF&A	Finished Good	FIFO	EACH	000			0.00	0.000	0.00
				001	OVERDIST		350.00-	450.000	157,500.00-
Item D1000 Total:							350.00-	450.000	157,500.00-
D1000-BBW/LIGHT	BOOK BIN W/FLUORESCENT LIGHT								
WF&A	Finished Good	FIFO	EACH	000			0.00	0.000	0.00
				001	OVERDIST		1.00-	65.000	65.00-
Item D1000-BBW/LIGHT Total:							1.00-	65.000	65.00-
D1000-CD	DESK CENTER DRAWER								
WF&A	Finished Good	FIFO	EACH	000			0.00	0.000	0.00
D1000-FC	FILING CABINET								
WF&A	Finished Good	FIFO	EACH	000			0.00	0.000	0.00
D1400	EXECUTIVE DESK ENSEMBLE								
WF&A	Kt	Average Cost	EACH	000			7.00	0.000	0.00
				001			0.00	0.000	0.00
Item D1400 Total:							7.00	0.000	0.00
D1500	DESK ENSEMBLE								
WF&A	Kt	FIFO	EACH	000			0.00	0.000	0.00
D1700	SECRETARY DESK ENSEMBLE								
WF&A	Kt	Average Cost	EACH	000			21.00	0.000	0.00
				001			0.00	0.000	0.00
Item D1700 Total:							21.00	0.000	0.00
D2000	DESK 84" X 48"								
WF&A	Finished Good	FIFO	EACH	000			0.00	0.000	0.00
D2000-C	EXECUTIVE CREDENZA								
WF&A	Finished Good	FIFO	EACH	001			0.00	0.000	0.00

Current Page No.: 4 Total Page No.: 4+ 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' dialog box. The window title is 'Open Orders By Matrix Item Report (ABC) 3/9/2016'. The dialog is divided into several sections:

- Report Setting:** A dropdown menu set to 'STANDARD' with a search icon and a 'Save' button.
- Description:** A text field containing 'Open Orders By Matrix Item Report'.
- Setting Options:**
 - Type:** A dropdown menu set to 'Public'.
 - Print Report Settings:** An unchecked checkbox.
 - Number of Copies:** A spinner box set to '1'.
 - Default Report:** A checked checkbox.
 - Three Hole Punch:** An unchecked checkbox.
 - Collated:** A checked checkbox.
- Print Report By:** A dropdown menu set to 'Salesperson'.
- Sort Report By:** A dropdown menu set to 'Item Code'.
- Sales Order Types to Print:** Three checked checkboxes for 'All Types', 'Standard Orders', and 'Back Orders'.
- Print Summary Report:** An unchecked checkbox.
- Selections:** A table with columns 'Select Field', 'Operand', and 'Value'.

Select Field	Operand	Value
Item Code	All	
Product Line	All	
Warehouse	All	
Salesperson	All	
- Bottom Section:**
 - A dropdown menu set to 'Microsoft XPS Document Writer'.
 - Keep Window Open After:** Two unchecked checkboxes for 'Print' and 'Preview'.
 - Buttons for 'Print', 'Preview', and '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

1 / 1

Main Report

Open Orders By Matrix Item Report
For Order Types: All

ABC Distribution and Service Corp. (ABC)

Salesperson		Description		Promise	Customer Number/Name	Whse	Quantity				Extension	
Item Code	Order No	Type	Order Date	Date			Ordered	Shipped	Back Ordered	Net Order		
01-0100 Jim Kanhay												
MXP-NEWITEM												
0000183	Back		3/9/2016	3/9/2016	01-ABF	Product Line: WFS&A	U:M: EACH	4.00	2.00	2.00	2.00	0.00
0000184	Back		3/9/2016	3/9/2016	01-ABF		001	4.00	3.00	1.00	1.00	555.00
0000185	Std		3/9/2016	3/9/2016	01-ABF		000	5.00	0.00	0.00	5.00	3,770.00
0000187	Back		3/9/2016	3/9/2016	01-ABF		001	66.00	62.00	4.00	4.00	0.00
0000191	Std		3/9/2016	3/9/2016	01-ABF		001	4.00	0.00	0.00	4.00	0.00
0000199	Std		3/9/2016	3/9/2016	01-ABF		001	6.00	0.00	0.00	6.00	0.00
Item MXP Total:								89.00	67.00	7.00	22.00	4,325.00
MXP_NEWITEM NEW ITEM												
Product Line: WFS&A U:M: EACH												
0000178	Std		3/9/2016	3/9/2016	01-ABF		001	5.00	0.00	0.00	5.00	0.00
0000179	Back		3/9/2016	3/9/2016	01-ABF		001	10.00	5.00	5.00	5.00	0.00
0000182	Back		3/9/2016	3/9/2016	01-ABF		001	6.00	4.00	2.00	2.00	1,990.00
Item MXP_NEWITEM Total:								21.00	9.00	7.00	12.00	1,990.00
MXP-ITEM Matrix Item												
Product Line: WFS&A U:M: EACH												
0000176	Back		3/9/2016	3/9/2016	01-ABF		001	5.00	2.00	3.00	3.00	0.00
0000177	Std		3/9/2016	3/9/2016	01-ABF		001	1.00	0.00	0.00	1.00	0.00
0000195	Std		3/9/2016	3/9/2016	01-ABF		001	8.00	0.00	0.00	8.00	816.00
0000198	Std		3/9/2016	3/9/2016	01-ABF		001	20.00	0.00	10.00	20.00	1,540.00
0000199	Std		3/9/2016	3/9/2016	01-ABF		001	10.00	0.00	0.00	10.00	770.00
Item MXP-ITEM Total:								44.00	2.00	13.00	42.00	2,926.00
Salesperson 01-0100 Total:								154.00	78.00	27.00	76.00	9,241.00
Report Total:								154.00	78.00	27.00	76.00	9,241.00

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

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

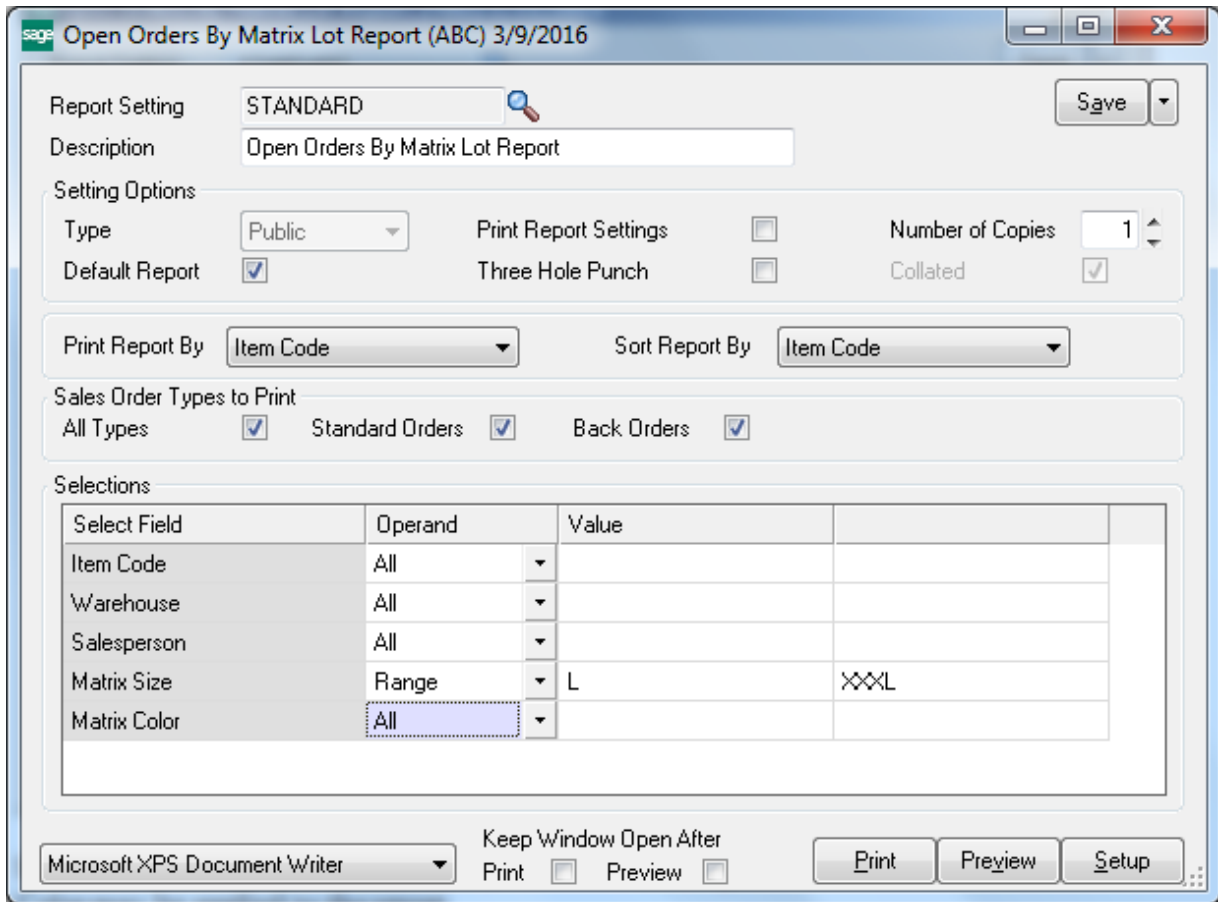
MX Demo Company (MXD)

Salesperson				Quantity				
Item Code	Description			Ordered	Shipped	Back Ordered	Net Order	Item Total
01-100 Jim Kennedy								
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	1,560.00
MXP2_ITEM	Matrix	Prod :SPW	U/M: EACH	65.00	30.00	5.00	35.00	2,800.00
T-SHIRT	T-SHIRT	Prod :SPW	U/M: EACH	12.00	0.00	2.00	12.00	570.00
Salesperson 01-100 Total:				197.00	60.00	33.00	137.00	7,690.00
01-0200 Shelly Westland								
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 Earlwright								
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).



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

ABC Distribution and Service Corp. (ABC)

Open Orders By Matrix Lot Report
For Order Types: All

Item Code/Description	Size	Color	Order No.	Type	Ord. Date	Customer Number /Name	Salesperson No./Name	Whse	Quantity Ordered
MATRIX Matrix									
L		YEL							
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	2.00
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000178	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	2.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	3.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				000	1.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
Size: L Color: YEL Total:									14.00
M		YEL							
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	2.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	3.00
Size: M Color: YEL Total:									5.00
L		RED							
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000178	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	2.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	3.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
Size: L Color: RED Total:									11.00
M		RED							
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	2.00
Size: M Color: RED Total:									3.00
L		GRN							
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	2.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	3.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley				001	1.00
Size: L Color: GRN Total:									9.00
M		GRN							

Current Page No.: 1 Total Page No.: 1 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

ABC Distribution and Service Corp. (ABC)

Item Code/Description	Color	Customer Number /Name	Salesperson No/Name	Whse	Quantity Ordered
Order No.	Type	Ord. Date	Product Line P-0&A	U/M: EACH	
MATRIX Matrix					
L YEL					
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	2.00
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000178	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	2.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	3.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
Size: L Color: YEL Total:					14.00
M YEL					
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	2.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	3.00
Size: M Color: YEL Total:					5.00
L RED					
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000178	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	2.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000180	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	3.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000182	Std	5/15/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
Size: L Color: RED Total:					11.00
M RED					
0000175	Back	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	1.00
0000179	Std	5/13/2015	01-ABF American Business Futures	01-0100 Jim Kentley	2.00
Size: M Color: RED Total:					3.00

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

Matrix Codes Invoice History Report

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

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 XXXL
Matrix Color	All	
Item Code	All	
Item Description	All	
Invoice Date	All	
Invoice Number	All	
Customer Number	All	
Salesperson	All	

Microsoft XPS Document Writer

Keep Window Open After: Print Preview

Buttons: Print, Preview, Setup

Here is an example of printout for summary report form:

The screenshot shows a software window titled "Matrix Codes Invoice History Report" with a standard toolbar and a scrollable report area. The report area contains the following data:

Matrix Codes Invoice History Report		ABC Distribution and Service Corp. (ABC)
ItemCode	Description	Quantity
MXP	MXP ITEM	
	Size: ITEM Color:	5.00
	Size: L Color: XL	4.00
	Size: ITEM Color: S	2.00
	Size: ITEM Color: L	2.00
	Size: L Color: L	16.00
	Size: S Color: XL	4.00
	Size: S Color: XXXL	2.00
	Size: XXL Color: XXXL	12.00
	Size: XXL Color: L	19.00
	Size: XL Color: XXXL	3.00
	Size: XXXL Color: XL	3.00
	Size: XXXL Color: L	16.00
MXP_NEWITEM	NEW ITEM	
	Size: MXP Color:	14.00
MXP2	MXP_ITEM	
	Size: XXL Color: XL	1.00
	Size: XXL Color: XXL	1.00
MXP-ITEM	Matrix Item	
	Size: MATRI Color: X_LOT	4.00

At the bottom of the window, the status bar displays: "Current Page No.: 1", "Total Page No.: 1", and "Zoom Factor: 100%".

Here is an example of printout for detail report form:

Matrix Codes Invoice History Report

ABC Distribution and Service Corp. (ABC)

Item Code	Description	Invoice Number	Invoice Date	Customer Number /Name	Salesperson No/Name	U/M	Quantity
MXP	MXP_ITEM						
	Size: L		Color: XL				
		0100070	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
		0100071	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	3.00
	Size: L		Color: L				
		0100088	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
		0100089	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	14.00
		0100070	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
	Size: S		Color: XL				
		0100089	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	4.00
	Size: S		Color: XXXL				
		0100071	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
	Size: XXL		Color: XXXL				
		0100089	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	12.00
	Size: XXL		Color: L				
		0100089	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	17.00
		0100071	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
	Size: XL		Color: XXXL				
		0100088	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
		0100071	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
	Size: XXXL		Color: XL				
		0100070	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
		0100071	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	2.00
	Size: XXXL		Color: L				
		0100089	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	15.00
		0100070	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00
MXP2	MXP_ITEM						
	Size: XXL		Color: XL				
		0100072	3/9/2016	01-ABF American Business Futures	01-0100 Jim Kentley	EACH	1.00

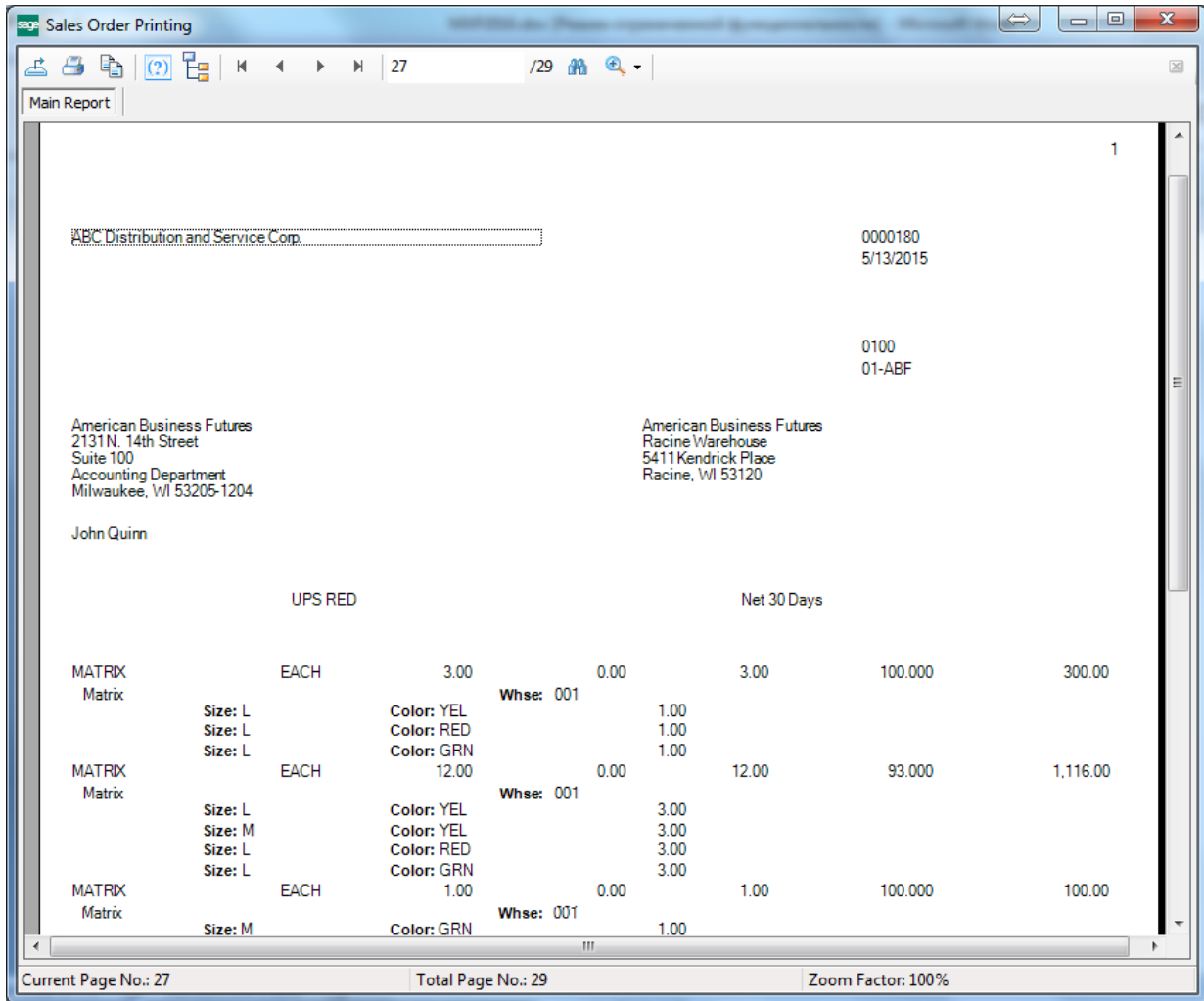
Current Page No.: 1 Total Page No.: 1 Zoom Factor: 100%

Other Printing Forms

Preprinted Laser

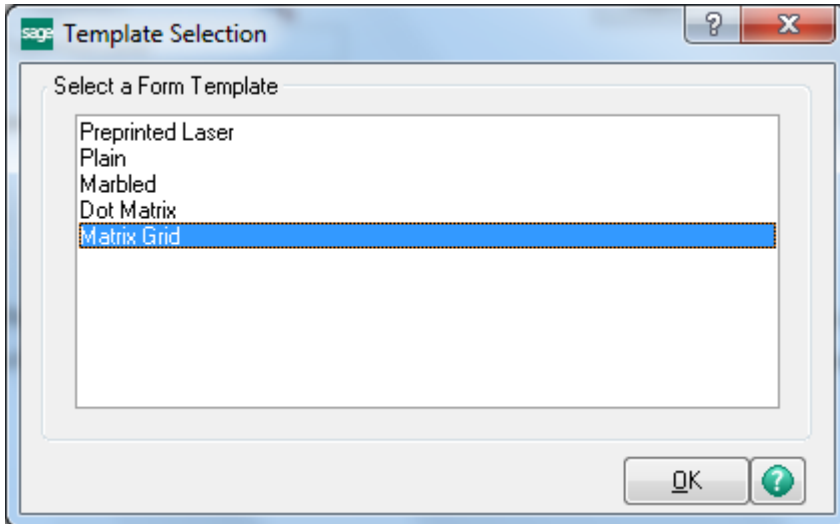
The **Preprinted** form of graphical printing in **Sales Order, S/O Invoice, Picking Sheet, Packing List** and **Purchase Order** have been modified to display Lot Numbers for Matrix Items as a pair of Matrix Codes with their Category Descriptions.

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 (ABC) 3/9/2016

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	0000103	0000203
Warehouse Code	All		

Keep Window Open After
 Print Preview

Microsoft XPS Document Writer

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

Sales Order

ABC Distribution and Service Corp. OrderNumber: 0000182
 Order Date: 5/15/2015

Salesperson: 0100
 CustomerNumber: 01-ABF

Sold To: American Business Futures
 2131 N. 14th Street
 Suite 100
 Accounting Department
 Milwaukee, WI 53205-1204

Ship To: American Business Futures
 Racine Warehouse
 5411 Kendrick Place
 Racine, WI 53120

Confirm To:
 John Quirm

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

Item Code	Unit	Ordered	Shipped	BackOrder	Price	Amount
MATRX	EACH	3.00	0.00	0.00	100.000	300.00
Matrix			Whse: 001			

	Large	Total
Yellow	1.00	1.00
Red	1.00	1.00
Green	1.00	1.00
Total	3.00	3.00

MATRX	EACH	3.00	0.00	0.00	100.000	300.00
Matrix			Whse: 001			

Current Page No.: 30 Total Page No.: 31 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:

Invoice Printing

Main Report

Page: 3

Invoice

ABC Distribution and Service Corp.

Invoice Number : 0100062-IN
 Invoice Date : 5/13/2015

Order Number : 0000180
 Order Date : 5/13/2015
 Salesperson : 0100
 Customer Number : 01-ABF

Sold To:
 American Business Futures
 2131 N. 14th Street
 Suite 100
 Accounting Department
 Milwaukee, WI 53205-1204
Confirm To:
 John Quirm

Ship To:
 American Business Futures
 Racine Warehouse
 5411 Kendrick Place
 Racine, WI 53120

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

Item Code	Unit	Ordered	Shipped	Back Ordered	Price	Amount
MATRIX1	EACH	2.00	2.00	0.00	100.000	200.00
Matrix 1			Whse: 001			
			Middle	Total		
Red	Ordered	1.00	1.00			
	Shipped	1.00	1.00			
	Backord	0.00	0.00			
Green	Ordered	1.00	1.00			
	Shipped	1.00	1.00			
	Backord	0.00	0.00			
Total	Ordered	2.00	2.00			
	Shipped	2.00	2.00			
	Backord	0.00	0.00			

Current Page No.: 3 Total Page No.: 4 Zoom Factor: 100%

Here is an example of printout for Packing List Printing:

Packing List Printing

Main Report

Packing List

ABC Distribution and Service Corp. Shipping Number: 0100062
Ship Date: 5/13/2015

OrderNumber: 0000180
Order Date: 5/13/2015
Salesperson: 0100
CustomerNumber: 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 Quirn Number of Packages: 1

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

Item Number	Unit	Ordered	Shipped	Backordered
MATRIX	EACH	3.00	3.00	0.00
Matrix				
				Warehouse: 000

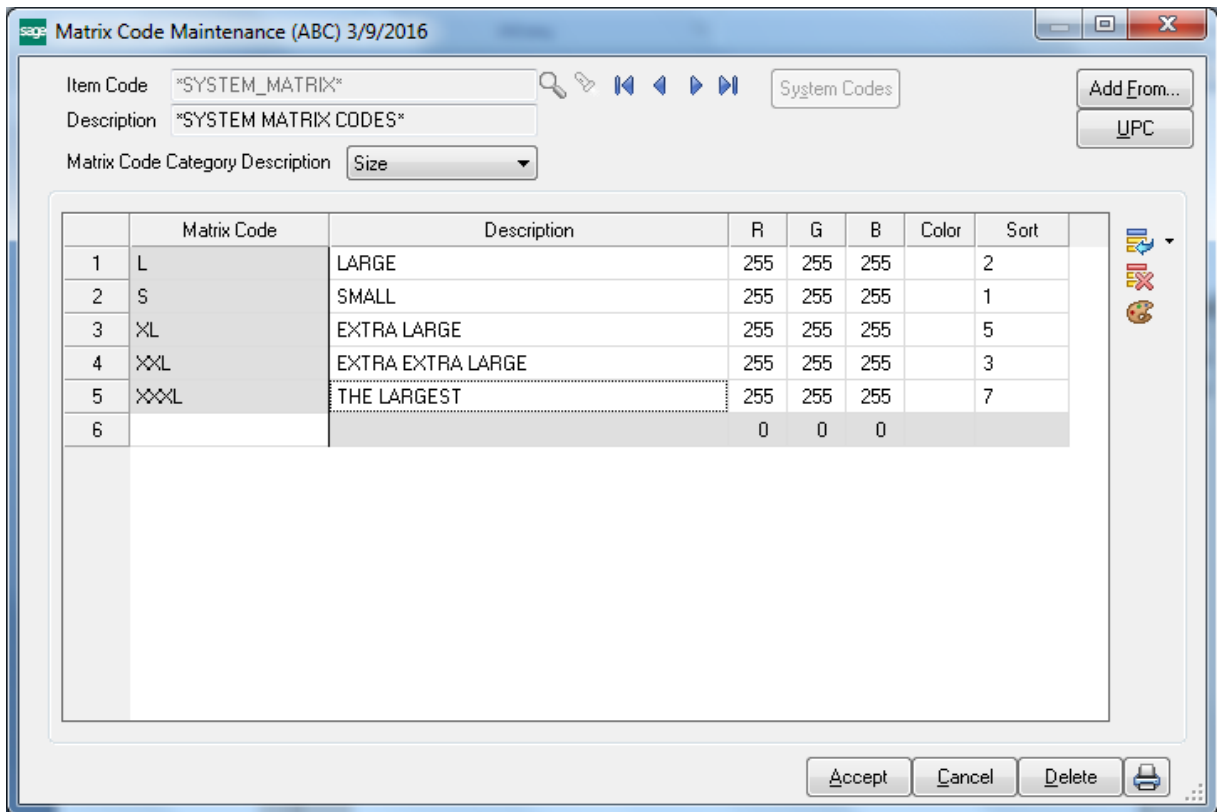
		Large	Total
Yellow	Ordered	0.00	0.00
	Shipped	1.00	1.00
	Backord	0.00	0.00
Red	Ordered	0.00	0.00
	Shipped	1.00	1.00
	Backord	0.00	0.00
Green	Ordered	0.00	0.00
	Shipped	1.00	1.00
	Backord	0.00	0.00
Total	Ordered	0.00	0.00
	Shipped	3.00	3.00
	Backord	0.00	0.00

Current Page No.: 1 Total Page No.: 3 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

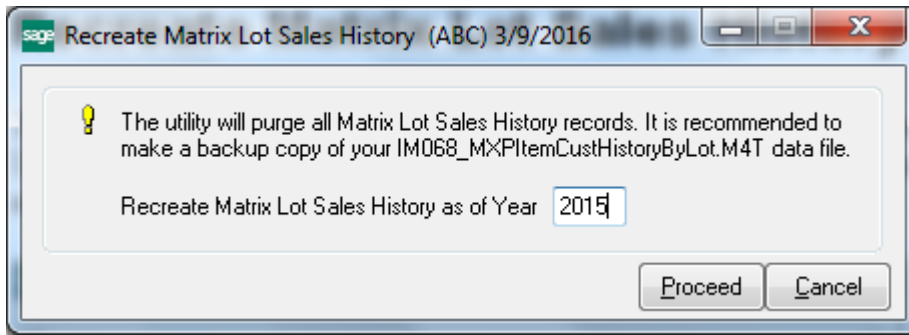


The screenshot shows the SAP Matrix Code Maintenance window for item code *SYSTEM_MATRIX*. The table below displays the matrix codes sorted by their Sort field value. The columns are Matrix Code, Description, R, G, B, Color, and Sort.

	Matrix Code	Description	R	G	B	Color	Sort
1	L	LARGE	255	255	255		2
2	S	SMALL	255	255	255		1
3	XL	EXTRA LARGE	255	255	255		5
4	XXL	EXTRA EXTRA LARGE	255	255	255		3
5	XXXL	THE LARGEST	255	255	255		7
6			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.

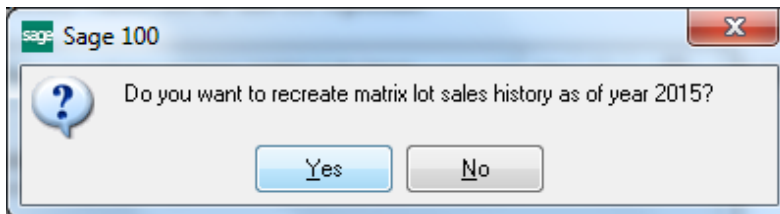


Recreate Matrix Lot Sales History as of Year- Enter the year to be used for recreating Matrix Lot Sales History.

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.