



# Matrix Processing For Sage 100 2018

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## Pre-Installation Checklist

Before beginning the installation of this enhancement:

1. Verify you have the following standard modules activated in your MAS system:
  - CI
  - IM
  - AR
  - SO
  - PO
2. Necessarily follow the steps described in the “**Installation Instructions for MXP2018.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.*

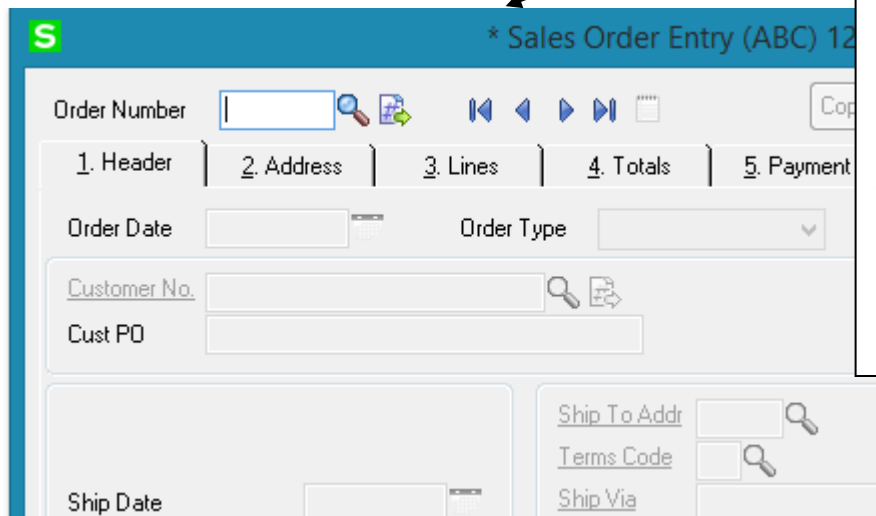
### Wait! Before You Install – Do You Use CUSTOM OFFICE?

**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**.

**IIG Master Developer Enhancement Registration**

Registered Customer: IIG - Glendale

Registration Information:

- Reseller Name: [Empty]
- Serial Number: 1111111
- Customer Number: 222222222
- User Key: 3333333333333333
- Product Key: 55555 55555 55555 55555 55555

Enhancement	Level	Release Date	Serial Number	Unlocking Key
IIG Enhancement	6.00		AAAAAAAAAAAAAAAAAA	BBBBB

Buttons: OK, Undo, Print Registration Form, Close, [Printer Icon]

Status Bar: IIG | ABC | 12/16/2016

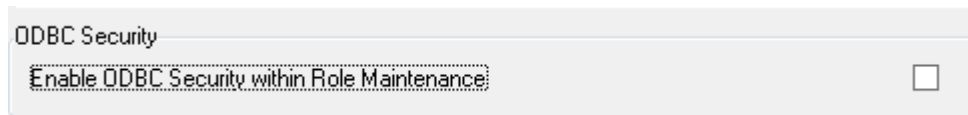
Enter **Serial Number** and **Unlocking Key** provided by IIG, and click **OK**.

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.

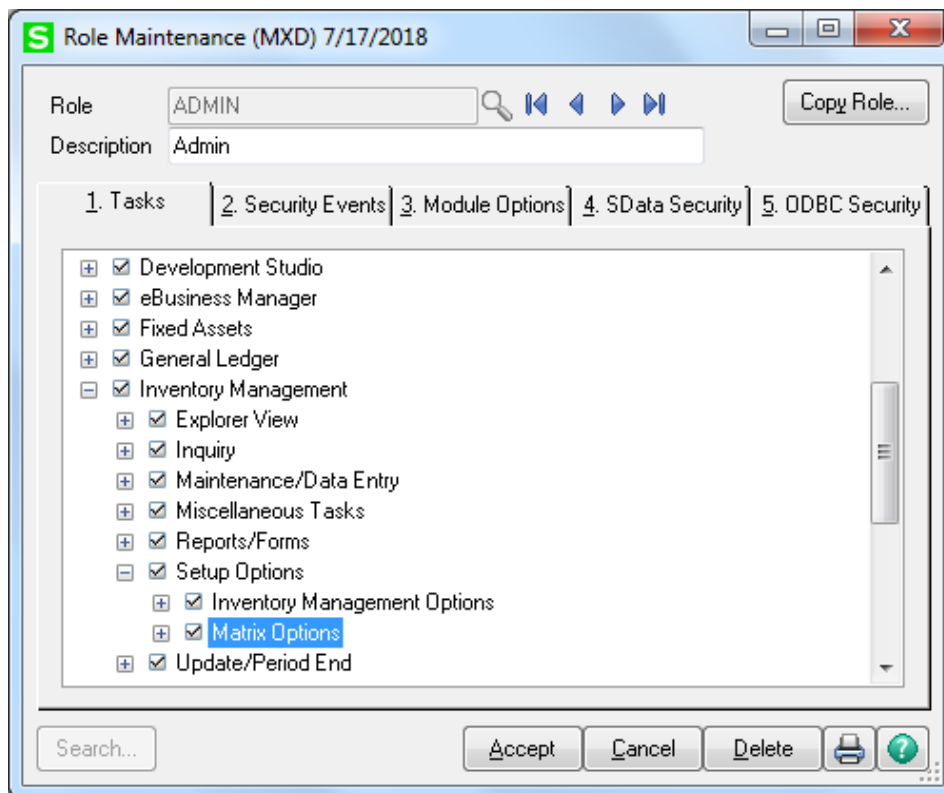
## ODBC Security

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.

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

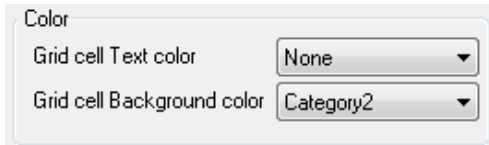
Select the **Matrix Options** program under the **Inventory Management Setup** menu.

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 screenshot shows a window titled "Color" with two dropdown menus. The first menu, labeled "Grid cell Text color", has "None" selected. The second menu, labeled "Grid cell Background color", 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.

**S** Lot/Serial No.- Matrix Distribution Entry

Item Code: MATRIX\_DIST      Matrix Item: Matrix Codes

Unit of Measure: EACH

It is necessary to setup Matrix Codes for current Item

	Lot Number	Available	Distribute
1		.00	.00

Grid column Width: 15

Enter quantities by: Columns

Show Quantities:

- On Hand ☒
- Available ☒
- Distributed ☒

Distribution Balance: .00

Qty Distributed: .00

OK Cancel

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

Matrix Options (MXD) 7/17/2018

1. Main | 2. Purchase Order | 3. Sales Order | 4. Inventory | 5. Bill of Materials | 6. RMA

Lot Number Preview: SSSSSSSSSSSSSSSS

Category 1  
Description: Size | Starting Position: 1 | Length: 5 | Type: String

Category 2  
Description: Color | Starting Position: 6 | Length: 10 | Type: String

Color  
Grid cell Text color: None | Grid cell Background color: Category2

Delete Zero Quantity Lots When Deleting Matrix Code: ☒ | Use System Matrix Codes By Default: ☐

UPC  
UPC Code Type: EAN/UCC-14 | Allow Only Selected UPC Type: ☒ | Scanning: ++UPC++ | UPC Scanning during Receipt: ☒ | Use UCC: ☒ | UCC Code: 123456 | UPC Next Auto Item Reference: 000309

Manual | Accept | Cancel | [Printer Icon]

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.

Sage 100

Changing this option will rebuild the existing UPC Codes data to adjust to the new setting. Do you want to proceed with these changes?

Yes | No

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:

**Matrix Options Listing** MXD Company (MXD)

**Main Folder Options**

Category 1	Starting Position	Length	Type
Description	1.00	5.00	String

Category 2	Starting Position	Length	Type
Description	6.00	10.00	String

Color

Grid cell Text color: None

Grid cell Background color: Category2

Delete Zero Quantity Lots When Deleting Matrix Code: Yes

Use System Matrix Codes by Default: Yes

**UPC**

UPC Code Type: EAN/UCC-14

Allow Only Selected UPC Type: Yes

Scanning: ++UPC++

UPC Scanning during Receipt: Yes

Use UCC: Yes

UCC Code: 123456

UPC Next Auto Item Reference: 000309

**Purchase Order Options**

Matrix Distribution in	Show Quantities
Purchase Order Entry: Yes	On Hand: Yes
Repeating Order: No	Available: Yes
Receipts of Goods Entry: Yes	Distributed: Yes
Return of Goods Entry: Yes	On PO: Yes

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

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.

**S Matrix Options (MXD) 7/17/2018**

1. Main | 2. Purchase Order | 3. Sales Order | **4. Inventory** | 5. Bill of Materials | 6. RMA

Matrix Distribution in

Inventory Transaction Entry ☒

Physical Count Entry ☒

Show Quantities

On Hand ☒

Available ☒

Distributed ☒

Grid Column Width 15

Enter quantities by Columns

Manual Accept Cancel

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.

Matrix Options (MXD) 7/17/2018

1. Main | 2. Purchase Order | 3. Sales Order | 4. Inventory | 5. Bill of Materials | 6. RMA

Matrix Distribution in

Production Entry ☒

Auto Distribute Lines ☒

Disassembly Entry ☒

Show Quantities

On Hand ☐

Available ☒

Distributed ☒

Grid Column Width 15

Enter quantities by Rows

Manual Accept Cancel

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.

**S Matrix Options (MXD) 7/17/2018**

1. Main | 2. Purchase Order | 3. Sales Order | 4. Inventory | 5. Bill of Materials | **6. RMA**

Matrix Distribution in

RMA Data Entry ☒

RMA Receipts Entry ☒

Show Quantities

Available ☒

Distributed ☒

Grid Column Width 15

Enter quantities by Columns

Manual Accept Cancel

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.

Item Maintenance (MXD) 7/17/2018

Item Code: MXP\_ITEM  
Description: Matrix Item

1. Main | 2. Additional | 3. Quantity | 4. History | 5. Transactions | 6. Orders | 7. Cost Detail | 8. Matrix Detail

Product Line: SPW SPORTSWARE  
Product Type: Finished Good  
Valuation: Lot  
Procurement: Make

Unit of Measure: Standard EACH, Purchases EACH, Sales EACH  
No. of EACH: 1

Matrix Item ☒

Price Code:   
Default Whse: 000 CENTRAL WAREHOUSE  
Primary Vendor: 01-STEVE Stevens Supply  
Warranty Code:

Sales: Retail Price 65.000, Standard Price 65.000, Last Sold 12/12/2018  
Purchases: Standard Cost 24.000, Average Cost 24.012, Last Receipt 12/12/2020  
Last Costs: Item 24.000, Allocated .000, Total 24.000

Whse	Description	On Hand	On PO	On SO	On Bk Ord	Committed	Available	In Shipping	On H
000	CENTRAL ...	11,227.00	30.00	.00	.00	.00	11,227.00	.00	
001	EAST WA...	4,984.00	13.00	11.00	4.00	15.00	4,969.00	.00	
002	WEST WA...	.00	.00	.00	.00	.00	.00	.00	

Accept Cancel Delete

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

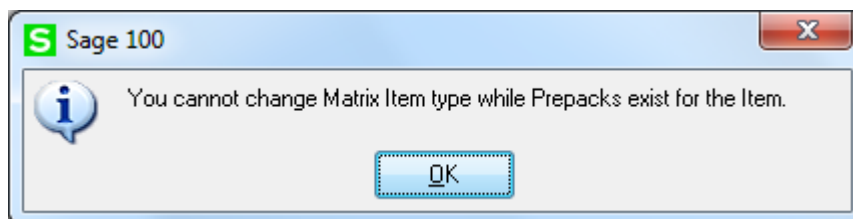
The **Matrix Item** box can be checked only for **Lot** items. The **Valuation** of an item specified as **Matrix Item** cannot be changed to any type other than **Lot**.

Whse	Description	On Hand	On PO	On SO	On Bk Ord	Committed	Available	In Shipping	On H
000	CENTRAL ...	11,227.00	30.00	.00	.00	.00	11,227.00	.00	
001	EAST WA...	4,984.00	13.00	11.00	4.00	15.00	4,969.00	.00	
002	WEST WA...	.00	.00	.00	.00	.00	.00	.00	

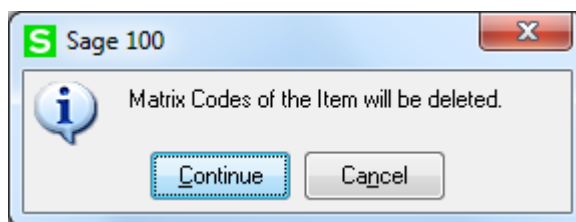
The **Prepacks**, **Matrix Codes**, **Matrix Sales** and **MXP Sales History** buttons are enabled only for Matrix Items.

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

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



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



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

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

	Matrix Code	Description	R	G	B	Color	Sort
1	L	LARGE	255	0	0	Red	3
2	M	MEDIUM	255	128	128	Pink	2
3	S	SMALL	0	0	160	Blue	1
4	XL	EXTRA LARGE	255	128	0	Orange	4
5	XXL	EXTRA EXTRA LARGE	0	255	0	Green	5
6	XXXL	XXX LARGE	255	25	255	Magenta	6
7	XXXXL	XXXX LARGE	125	255	255	Cyan	7
8			0	0	0		

Here the user can add new matrix codes for current item if necessary or modify the existing ones (Refer to [Matrix Codes](#) for details).

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

Use the **Matrix Sales** button on the **Item Maintenance** screen to view Matrix Item Sales history information by customer and by the Item Matrix codes.

Click **ALL** to view the combined total of all ship-to locations for the customer and the selected Matrix Code combination.

**S Customer Sales History**

Item Code: MXP\_ITEM      Matrix Item

Customer No.: 01-ABF      Ship To: 2      Compare PY

Name: American Business Futures

Size: XL      Color: BL\_LT

Period	Ending	Qty Sold	Sales \$	Cost of Sales	Qty Returned
01	Jan 31	.00	.00	.00	.00
02	Feb 28	.00	.00	.00	.00
03	Mar 31	.00	.00	.00	.00
04	Apr 30	.00	.00	.00	.00
05	May 31	.00	.00	.00	.00
06	June 30	.00	.00	.00	.00
07	July 31	2.00	130.00	48.00	.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	2.00	130.00	48.00	.00

2018

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 2018 Period 07

Item Code MXP\_ITEM Matrix Item Ship To 2

Trans Date	Type	Ref No.	Whse	Description	Quantity	Unit Cost	Extension	Item Cost
7/17/2018	SD	0100165...	001	EAST WA...	4.00	24.000	96.00	24.000
7/17/2018	SD	0100186...	001	EAST WA...	3.00	24.000	72.00	24.000
7/17/2018	SD	0100187...	001	EAST WA...	20.00	24.000	480.00	24.000
7/17/2018	SD	0100189...	001	EAST WA...	10.00	24.000	240.00	24.000
7/17/2018	SD	0100193...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SD	0100196...	001	EAST WA...	10.00	24.019	240.19	24.019
7/17/2018	SD	0100197...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SD	0100200...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SD	0100202...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SD	0100203...	001	EAST WA...	4.00	24.000	96.00	24.000
7/17/2018	SD	0100208...	001	EAST WA...	10.00	24.000	240.00	24.000

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.

**S Item Maintenance (MXD) 7/17/2018**

Item Code: MXP\_ITEM Description: Matrix Item

1. Main | 2. Additional | 3. Quantity | 4. History | 5. Transactions | 6. Orders | 7. Cost Detail | 8. Matrix Detail

Product Line: SPW SPORTSWARE  
 Product Type: Finished Good Weight: Volume: 0.0000  
 Valuation: Lot Inventory Cycle: ☐  
 Procurement: Make

Unit of Measure: Standard: EACH Purchases: EACH Sales: EACH  
 No. of EACH: 1 No. of EACH: 1

Price Code: Default Whse: 000 CENTRAL WAREHOUSE  
 Primary Vendor: 01-STEVE Stevens Supply  
 Warranty Code:

Sales: Retail Price: 65.000 Standard Price: 65.000 Last Sold: 5/31/2017  
 Purchases: Standard Cost: 24.000 Average Cost: 24.003 Last Receipt: 5/31/2017  
 Last Costs: Item: 24.000 Allocated: .000 Total: 24.000

Quantities

Whse	Description	On Hand	On PO	On SO	On Bk Ord	Committed	Available	In Shipping	On H
000	CENTRAL ...	29,227.00	61.00	.00	.00	.00	29,227.00	.00	
001	EAST WA...	36,248.00	10.00	71.00	2.00	73.00	36,175.00		Matrix Detail, Alt-J
002	WEST WA...	.00	.00	.00	.00	.00	.00	.00	

Accept Cancel Delete

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.

Matrix Detail

Item Code: MXP\_ITEM Matrix Item

Warehouse: 001 EAST WAREHOUSE

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	495.00/492.00/0	190.00/190.00/0	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0	492.00/492.00/0	500.00/500.00/0
BL_LT	497.00/497.00/0	198.00/198.00/2.00	500.00/500.00/2.00	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0
YELL	495.00/495.00/0	597.00/597.00/3.00	500.00/495.00/0	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0
GR_LT	500.00/500.00/0	5,800.00/5,800.00/0	495.00/490.00/0	485.00/485.00/0	500.00/490.00/0	500.00/500.00/0	493.00/493.00/0
GRAY	490.00/490.00/0	500.00/500.00/0	500.00/495.00/0	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0
RED	498.00/498.00/0	500.00/500.00/0	485.00/485.00/0	500.00/496.00/0	500.00/500.00/0	500.00/500.00/0	500.00/495.00/0
BLUE	500.00/495.00/0	500.00/500.00/0	550.00/550.00/0	495.00/495.00/0	500.00/496.00/0	500.00/500.00/0	500.00/500.00/0
GREEN	500.00/500.00/0	500.00/500.00/0	495.00/495.00/0	500.00/500.00/0	500.00/494.00/0	500.00/500.00/0	500.00/495.00/0
BLACK	500.00/500.00/0	500.00/500.00/0	498.00/498.00/3.00	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0	500.00/500.00/0

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

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

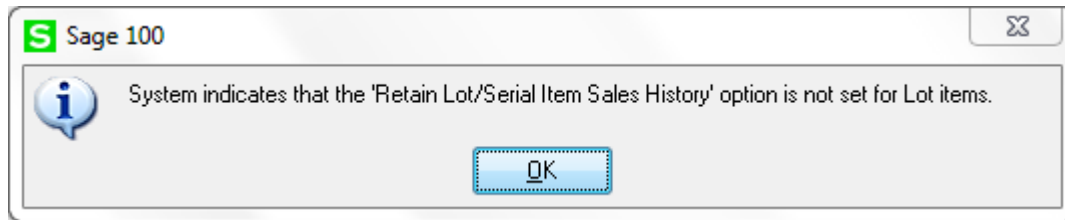
If the **Include in Quantity Available** option is set to “Purchase Order” or “PO s and WO s” in the **Inventory Management Options** the quantity On PO for Matrix Lot will be included in the quantity available calculation and reflected in the quantity available displayed on the Matrix Grid wherever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

“On PO” quantity will be included in the availability calculation after the Purchase Order is accepted.

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

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

It is necessary to have the **Retain Lot/Serial Item 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**

Item Code: MXP\_ITEM Matrix Item

Show Detail ☒

Selections

Select Field	Operand	Value	
Invoice Date	Range	5/1/2017	7/17/2018
Matrix Size	All		
Matrix Color	All		
Customer Number	All		

	Size	Color	Invoice No.	Date	Customer No.	Name	Quantity

Buttons: Scan History, Clear, Close

**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:

**Matrix Sales History Inquiry**

Item Code
MXP\_ITEM
Matrix Item

Show Detail
☒

Select Field
Operand
Value

Invoice Date	Range	5/1/2017	7/17/2018
Matrix Size	All		
Matrix Color	All		
Customer Number	All		

	Size	Color	Invoice No.	Date	Customer No.	Name	Quantity
	L	BLACK	0100193	7/17/2018	01-ABF	American Business Futures	1.00
	L	BLACK	0100196	7/17/2018	01-ABF	American Business Futures	24.00
	L	BLACK	0100197	7/17/2018	01-ABF	American Business Futures	2.00
	L	BLACK	0100200	7/17/2018	01-ABF	American Business Futures	2.00
	L	BLACK	0100202	7/17/2018	01-ABF	American Business Futures	1.00
	L	BLUE	0100193	7/17/2018	01-ABF	American Business Futures	1.00
	L	GRAY	0100187	5/31/2017	01-ABF	American Business Futures	5.00
	L	GREEN	0100159	5/31/2017	01-ABF	American Business Futures	2.00
	L	GR_LT	0100160	5/31/2017	01-ABF	American Business Futures	5.00
	L	GR_LT	0100196	7/17/2018	01-ABF	American Business Futures	5.00
	L	RED	0100162	5/31/2017	01-ABF	American Business Futures	10.00
	L	YELL	0100187	5/31/2017	01-ABF	American Business Futures	5.00
	M	BL_LT	0100154	5/31/2017	01-ABF	American Business Futures	2.00
	M	GREEN	0100196	7/17/2018	01-ABF	American Business Futures	4.00
	M	RED	0100202	7/17/2018	01-ABF	American Business Futures	1.00
	M	WHITE	0100155	5/31/2017	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.

**S Customer Sales History**

Customer No. 01-ABF American Business Futures Alias... Pricing...

Item Code Description Ship To All Compare PY

Size Color

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

2018

OK ?

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

Item Code	Description	Lot Serial No	Ship To Code	Fiscal Cal
BLINKERS	BLINKERS	XL WHITE	2	2018
CAP	CAP	L WHITE	2	2018
CAP	CAP	S GREEN	2	2018
CAP	CAP	S RED	2	2018
CAP	CAP	S WHITE	2	2018
MXP2_ITEM	Matrix	M GREEN	2	2018
MXP2_ITEM	Matrix	M RED	2	2018
MXP2_ITEM	Matrix	S BLUE	2	2018
<b>MXP_ITEM</b>	<b>Matrix Item</b>	<b>L BLACK</b>	<b>2</b>	<b>2018</b>
MXP_ITEM	Matrix Item	L BLUE	2	2018
MXP_ITEM	Matrix Item	L GRAY	2	2018
MXP_ITEM	Matrix Item	L GR_LT	2	2018
MXP_ITEM	Matrix Item	L YELL	2	2018
MXP_ITEM	Matrix Item	M GREEN	2	2018
MXP_ITEM	Matrix Item	M RED	2	2018
MXP_ITEM	Matrix Item	S BLUE	2	2018
MXP_ITEM	Matrix Item	S RED	2	2018
MXP_ITEM	Matrix Item	S WHITE	2	2018
MXP_ITEM	Matrix Item	XL GREEN	2	2018
MXP_ITEM	Matrix Item	XL GR_LT	2	2018
MXP_ITEM	Matrix Item	XL RED	2	2018
MXP_ITEM	Matrix Item	XXL BLUE	2	2018
MXP_ITEM	Matrix Item	XXL GREEN	2	2018
MXP_ITEM	Matrix Item	XXL GR_LT	2	2018
MXP_ITEM	Matrix Item	XXL RED	2	2018
MXP_ITEM	Matrix Item	XXXLBLUE	2	2018
MXP_ITEM	Matrix Item	XXXLGREEN	2	2018
MXP_ITEM	Matrix Item	XXXLRED	2	2018
T-SHIRT	T-SHIRT	L BLACK	2	2018
T-SHIRT	T-SHIRT	M GRAY	2	2018

Search:  Begins with:  Find

Filters...

Custom... Lookup Wizard...

Select Cancel

Found 91 records

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



**S Customer Sales History**

Customer No. 01-ABF American Business Futures Alias... Pricing...

Item Code MXP\_ITEM Item Inquiry, Alt-Z Ship To ALL All Compare PY

Description Matrix Item

Size XL Color GREEN

Period	Ending	Qty Sold	Sales \$	Cost of Sales	Qty Returned
01	Jan 31	.00	.00	.00	.00
02	Feb 28	.00	.00	.00	.00
03	Mar 31	.00	.00	.00	.00
04	Apr 30	.00	.00	.00	.00
05	May 31	.00	.00	.00	.00
06	June 30	.00	.00	.00	.00
07	July 31	4.00	260.00	96.00	.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	4.00	260.00	96.00	.00

2018 Transaction History, Alt-Z

OK

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

**Sales Transaction History**

Customer No. 01-ABF
American Business Futures
Year 2018
Period 07

Item Code MXP\_ITEM
Matrix Item
Ship To ALL

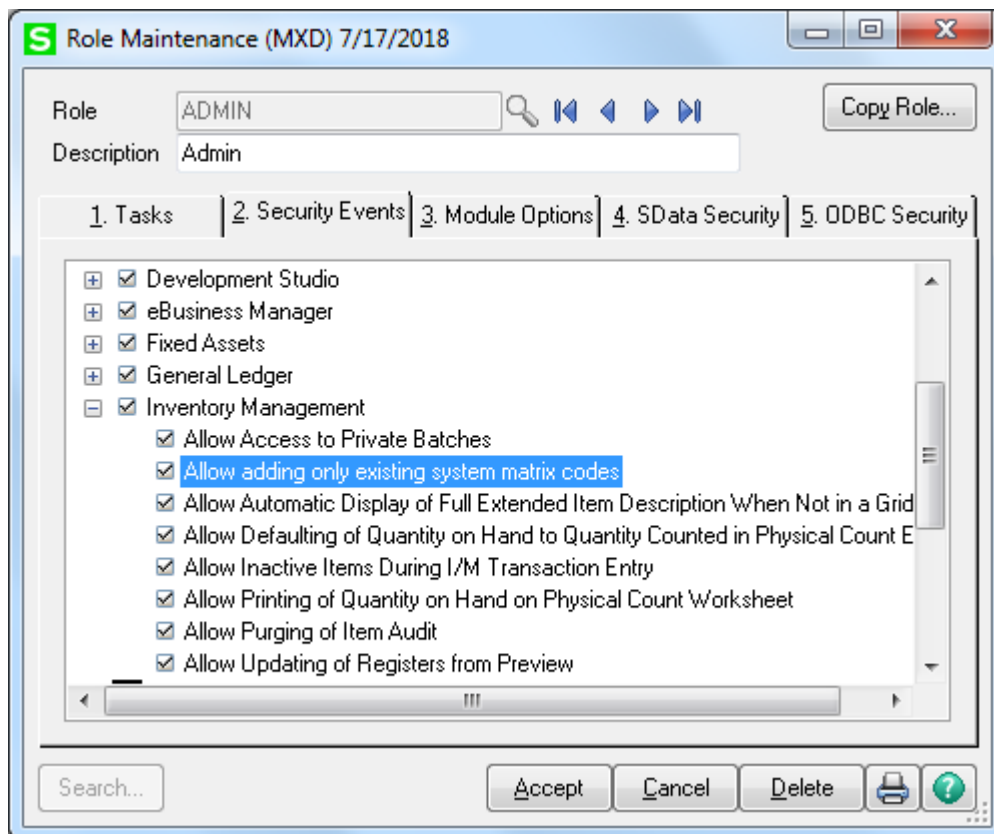
Trans Date	Type	Ref No.	Whse	Description	Quantity	Unit Cost	Extension	Item Cost
7/17/2018	SO	0100165...	001	EAST WA...	4.00	24.000	96.00	24.000
7/17/2018	SO	0100186...	001	EAST WA...	3.00	24.000	72.00	24.000
7/17/2018	SO	0100187...	001	EAST WA...	20.00	24.000	480.00	24.000
7/17/2018	SO	0100189...	001	EAST WA...	10.00	24.000	240.00	24.000
7/17/2018	SO	0100193...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SO	0100196...	001	EAST WA...	10.00	24.019	240.19	24.019
7/17/2018	SO	0100197...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SO	0100200...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SO	0100202...	001	EAST WA...	2.00	24.000	48.00	24.000
7/17/2018	SO	0100203...	001	EAST WA...	4.00	24.000	96.00	24.000

OK

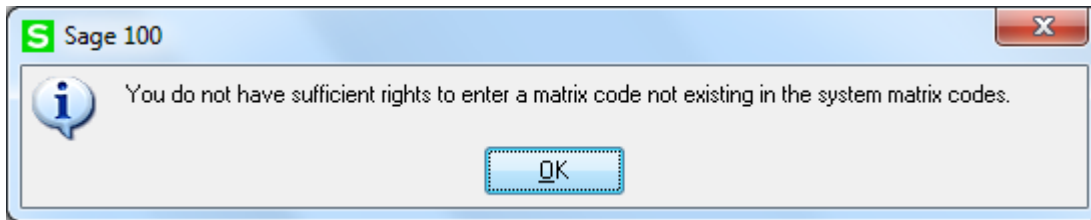
## Matrix Codes Setup

### 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.

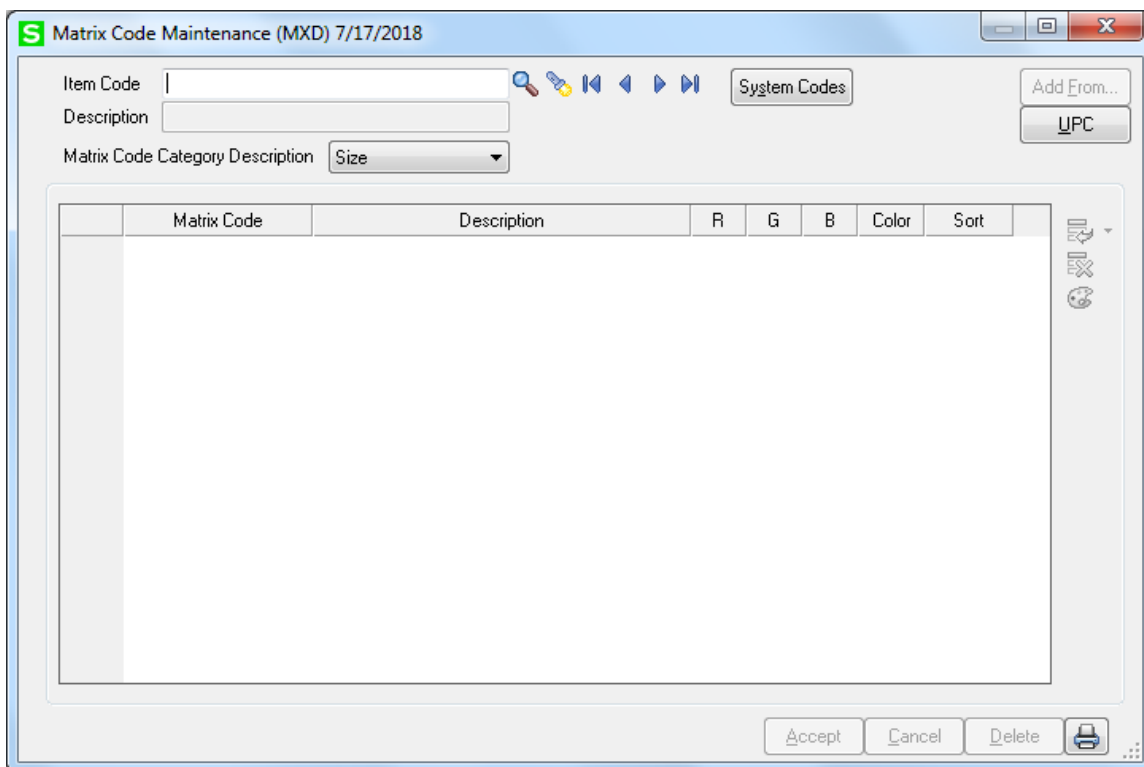


If this security event is enabled for a user's role, the user can add a Matrix code for an Item only from System Matrix codes. The following message will appear when trying to add a Matrix Code not existing in the System Matrix Codes.



## 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.

**S Matrix Code Maintenance (MXD) 7/17/2018**

Item Code: \*SYSTEM\_MATRIX\* 🔍 🔑 ⏪ ⏩ ⏴ ⏵

Description: \*SYSTEM MATRIX CODES\*

Matrix Code Category Description: Size

System Codes Add From... UPC

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

Accept Cancel Delete

**S Matrix Code Maintenance (MXD) 7/17/2018**

Item Code: \*SYSTEM\_MATRIX\* 🔍 🔑 ⏪ ⏩ ⏴ ⏵

Description: \*SYSTEM MATRIX CODES\*

Matrix Code Category Description: Color

System Codes Add From... UPC

	Matrix Code	Description	R	G	B	Color	Sort
1	BLACK	BLACK	64	0	64		6
2	BLUE	BLUE	0	0	255		5
3	GREEN	GREEN	0	255	0		4
4	RED	RED	255	0	0		3
5	WHITE	WHITE	255	255	255		1
6	YELL	YELLOW	255	255	0		2
7			0	0	0		

Accept Cancel Delete

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

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

Matrix Code Maintenance (MXD) 7/17/2018

Item Code: MXP2\_ITEM

Description: Matrix

Matrix Code Category Description: Color

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

Buttons: Add From..., UPC, Accept, Cancel, Delete, Print

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

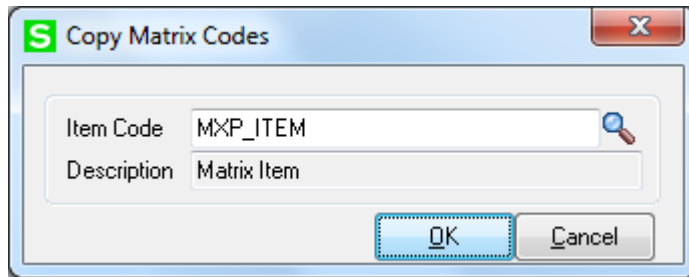
Copy Matrix Codes

Item Code:

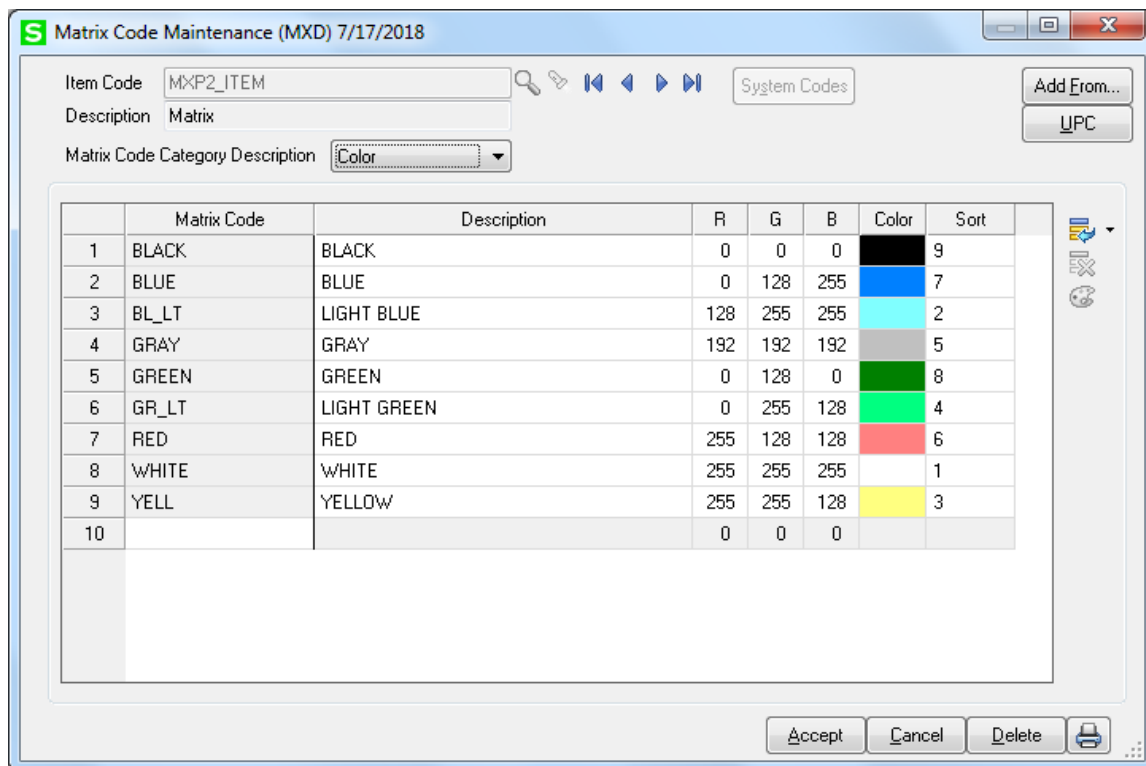
Description:

Buttons: OK, Cancel

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.

**S Matrix Item UPC Maintenance (MXD) 7/17/2018**

Item Code: MXP2\_ITEM

UCC Code: 123456 Auto Next No. 000520

	Matrix Lot	UPC
38	XXL BL_LT	01234560004973
39	XXL YELL	01234560004997
40	XXL GR_LT	01234560004980
41	XXL GRAY	01234560005000
42	XXL RED	01234560005017
43	XXL BLUE	01234560004157
44	XXL GREEN	01234560004164
45	XXL BLACK	01234560005024
46	XXXL WHITE	01234560005031
47	XXXL BL_LT	01234560005048
48	XXXL YELL	01234560005055
49	XXXL GR_LT	01234560005062
50	XXXL GRAY	01234560005079
51	XXXL RED	01234560005086
52	XXXL BLUE	01234560005093
53	XXXL GREEN	01234560004171
54	XXXL BLACK	01234560005109

Auto Accept Cancel Delete

Pint button allows printing the Matrix Codes listing:



**Matrix Codes Listing (MXD) 7/17/2018**

Report Setting: STANDARD

Description: Matrix Codes Listing

Setting Options:

Type: Public

Print Report Settings: ☐

Number of Copies: 1

Default Report: ☒

Three Hole Punch: ☐

Collated: ☒

Sort Report By: Matrix Item Code

Selections:

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

Microsoft XPS Document Writer

Keep Window Open After:

Print: ☐ Preview: ☐

Print Preview Setup

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

Default setting is Matrix Item Code.

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

Matrix Codes Listing							
Sorted by Matrix Item Code							
				MXD Company (MXD)			
Item Code	Category	Matrix Code	Matrix CodeDescription	R	G	B	Sort
*SYSTEM_MATRIX* *SYSTEM MATRIXCODES*							
	Size:	L	LARGE	255	255	255	3
		S	SMALL	255	255	255	1
		XL	EXTRA LARGE	255	255	255	4
		XXL	EXTRA EXTRALARGE	255	255	255	5
		XXXL	THE LARGEST	255	255	255	6
	Color:	BLACK	BLACK	64	0	64	6
		BLUE	BLUE	0	0	255	5
		GREEN	GREEN	0	255	0	4
		RED	RED	255	0	0	3
		WHITE	WHITE	255	255	255	1
		YELL	YELLOW	255	255	0	2
BELT:WIDE WIDE:BELT							
	Size:	STD	FITS ALL SIZES	255	255	255	
		XXXL	THE LARGEST	255	255	255	6
	Color:	BLACK	BLACK	64	0	64	
		BLUE	BLUE	0	0	255	
		BROWN	BROWN	128	64	64	
		GREEN	GREEN	0	128	128	
		WHITE	WHITE	255	255	255	
BLINKERS BLINKERS							
	Size:	L	LARGE	255	255	255	3
		M	MEDIUM	255	255	255	2
		S	SMALL	255	255	255	1
		XL	EXTRA LARGE	255	255	255	4
		XXL	EXTRA EXTRALARGE	255	255	255	5
		XXXL	XXX LARGE	255	255	255	6
		XXXXL	XXXX LARGE	255	255	255	7
	Color:	BLACK	BLACK	255	255	255	9

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

## Prepacks

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

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

**Item Maintenance (MXD) 7/17/2018**

Item Code:  Description:

1. Main | 2. Additional | 3. Quantity | 4. History | 5. Transactions | 6. Orders | 7. Cost Detail | 8.

Product Line:  SPORTSWARE  
 Product Type:  Weight:   
 Valuation:  Volume:   
 Procurement:  Inventory Cycle:

Unit of Measure  
 Standard:  No. of EACH:   
 Purchases:  No. of EACH:   
 Sales:  No. of EACH:

Price Code:  Primary Vendor:  Stevens Supply  
 Default Whse:  CENTRAL WAREHOUSE Warranty Code:

Sales: Retail Price:  Standard Price:  Last Sold:   
 Purchases: Standard Cost:  Average Cost:  Last Receipt:   
 Last Costs: Item:  Allocated:  Total:

Quantities



Whse	Description	On Hand	On PO	On SO	On Bk Ord	Committed	Available	In Shipping	On H
000	CENTRAL ...	29,227.00	61.00	.00	.00	.00	29,227.00	.00	
001	EAST WA...	36,189.00	22.00	7.00	13.00	20.00	36,169.00	.00	
002	WEST WA...	.00	.00	.00	.00	.00	.00	.00	

Accept Cancel Delete

**S Prepack Code Maintenance (MXD) 7/17/2018**

Item Code:  Matrix Item

Customer No.:

Prepack Code:   

Description:

Enter quantities by:

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

The screenshot shows the 'Prepack Code Maintenance' window with the title bar 'S Prepack Code Maintenance (MXD) 7/17/2018'. The window contains several input fields and a data grid.

Input fields:

- Item Code: MXP\_ITEM
- Customer No. (empty)
- Prepack Code: STD
- Description: Standard
- Enter quantities by: Columns (dropdown menu)

The data grid displays quantities for various colors and sizes. The columns are labeled S, M, L, XL, XXL, XXXL, and XXXXL. The rows are labeled WHITE, BL\_LT, YELL, GR\_LT, GRAY, RED, BLUE, GREEN, and BLACK. The values are as follows:

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	4.00	.00	7.00	4.00	5.00	.00	.00
BL_LT	.00	.00	.00	.00	.00	4.00	1.00
YELL	3.00	2.00	4.00	3.00	5.00	.00	.00
GR_LT	4.00	2.00	4.00	1.00	2.00	7.00	25.00
GRAY	.00	2.00	4.00	4.00	2.00	.00	.00
RED	4.00	.00	12.00	.00	.00	.00	4.00
BLUE	.00	.00	.00	.00	.00	.00	.00
GREEN	5.00	.00	1.00	1.00	4.00	.00	.00
BLACK	.00	2.00	.00	6.00	.00	.00	7.00

Buttons at the bottom: 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).

Prepack Code	Description	Customer No.
STD	Standard	-
LSIZE	L_Size Items	01-ABF
WHITE	NEW_COLLECTION	01-ABF
AVN_1	Prepack 1	01-AVNET
Y_G	YELL_GR	02-ATOZ
PR_1	Red Coll	02-AUTOOCR
PR_JL	Prepack_blue	02-JELLCO

Search: Prepack Code Begins with [ ] Find

Filters...

Custom... Lookup Wizard... Select Cancel [Excel] [Print] [Help]

Found 7 records

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.

Matrix Item UPC Maintenance (MXD) 7/17/2018

Item Code: MXP\_ITEM

UCC Code: 123456

Auto Next No.: 000531

	Matrix Lot	UPC
1	S WHITE	
2	S BL_LT	
3	S YELL	0123456000
4	S GR_LT	01234560005277
5	S GRAY	01234560005284
6	S RED	01234560005291
7	S BLUE	01234560005307
8	S GREEN	
9	S BLACK	
10	M WHITE	
11	M BL_LT	
12	M YELL	
13	M GR_LT	
14	M GRAY	
15	M RED	
16	M BLUE	
17	M GREEN	

Buttons: Auto, Accept, Cancel, Delete, Print

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

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

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



Load All Existing Lots, Alt-S

- this button allows loading all existing lots for the selected Item from IM\_ItemCost table.



Load Existing Matrix Codes, Alt-L

-this button allows loading all Matrix Codes setup for current Item in the Matrix Code Maintenance.



Load System Matrix Codes, Alt-M

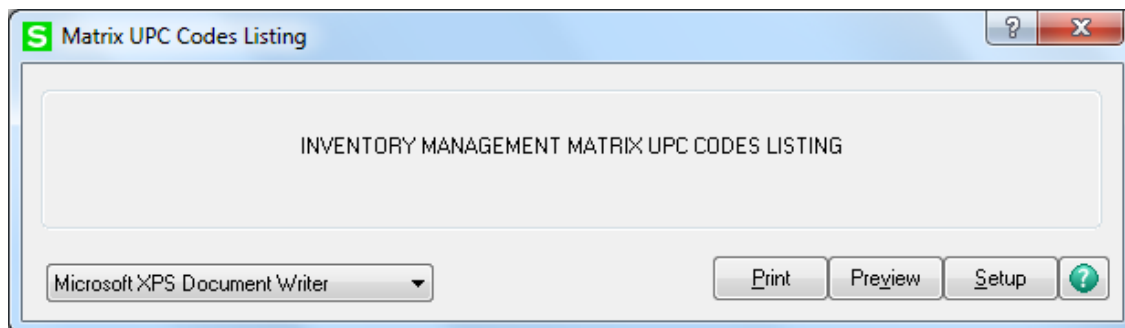
- this button allows loading the System Matrix Codes setup in the system.

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

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

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

Print button allows for printing the Matrix UPC Codes Listing:



Here is an example of printout:



Item Code	Description	Matrix Lot	UPC
MXP_ITEM	Matrix Item		
	L BLACK		01234560004447
	L BLUE		01234560004423
	L BL_LT		01234560004379
	L GRAY		01234560004409
	L GREEN		01234560004430
	L GR_LT		01234560004393
	L RED		01234560004416
	L WHITE		01234560004362
	L YELL		01234560004386
	M BLACK		01234560004355
	M BLUE		01234560004331
	M BL_LT		01234560004287
	M GRAY		01234560004317
	M GREEN		01234560004348
	M GR_LT		01234560004300
	M RED		01234560004324
	M WHITE		01234560004270
	M YELL		01234560004294
	S BLACK		01234560004263
	S BLUE		01234560004249
	S BL_LT		01234560004195
	S GRAY		01234560004225
	S GREEN		01234560004256
	S GR_LT		01234560004218
	S RED		01234560004232
	S WHITE		01234560004188
	S YELL		01234560004201
	XL BLACK		01234560004539
	XL BLUE		01234560004515
	XL BL_LT		01234560004461
	XL GRAY		01234560004492

## 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:

**Lot/Serial No.- Matrix Distribution Entry**

Item Code: MXP\_ITEM      Matrix Item

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[500.00/500.00/0]	[800.00/800.00/0]	[95.00/95.00/0]	[122.00/122.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
BL_LT	[500.00/500.00/0]	[80.00/80.00/0]	[95.00/95.00/0]	[10.00/10.00/0]	[550.00/550.00/0]	[515.00/515.00/0]	[506.00/506.00/0]
YELL	[500.00/500.00/0]	[80.00/80.00/0]	[100.00/100.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[412.00/412.00/0]	[508.00/508.00/0]
GR_LT	[500.00/499.00/0]	[100.00/100.00/0]	[95.00/95.00/0]	[5.00/4.00/0]	[510.00/510.00/0]	[611.00/611.00/0]	[500.00/500.00/0]
GRAY	[500.00/500.00/0]	[100.00/100.00/0]	[38.00/38.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[500.00/500.00/0]	[100.00/100.00/0]	[10.00/10.00/0]	[10.00/10.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
BLUE	[5.000.00/5.000.00/0]	[89.00/89.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GREEN	[475.00/475.00/0]	[100.00/100.00/0]	[500.00/500.00/0]	[510.00/510.00/0]	[500.00/499.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
BLACK	[500.00/500.00/0]	[590.00/590.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

Lot Number: 1      Available: .00      Distribute: .00

Distribution Balance: .00  
Qty Distributed: .00

Grid column Width: 10  
Enter quantities by: Columns  
Construct Grid by only existing: Lot Numbers  
Show Quantities: On Hand, Available, Distributed

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.

**S** Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP\_ITEM Matrix Item: Matrix Codes

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[500.00/500.00/0]	[800.00/800.00/0]	[95.00/95.00/0]	[122.00/122.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
BL_LT	[500.00/500.00/0]	[80.00/80.00/0]	[95.00/95.00/0]	[10.00/10.00/0]	[550.00/550.00/0]	[515.00/515.00/0]	[506.00/506.00/0]
YELL	[500.00/500.00/0]	[80.00/80.00/2.00]	[100.00/100.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[412.00/412.00/0]	[508.00/508.00/0]
GR_LT	[500.00/499.00/0]	[100.00/100.00/0]	[95.00/95.00/0]	[5.00/4.00/0]	[510.00/510.00/1.00]	[611.00/611.00/0]	[500.00/500.00/0]
GRAY	[500.00/500.00/4.00]	[100.00/100.00/0]	[38.00/38.00/0]	[500.00/500.00/0]	[500.00/500.00/5.00]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[500.00/500.00/3.00]	[100.00/100.00/0]	[10.00/10.00/0]	[10.00/10.00/0]	[500.00/500.00/0]	[500.00/500.00/5.00]	[500.00/500.00/0]
BLUE	[5,000.00/5,000.00/0]	[89.00/89.00/3.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/4.00]
GREEN	[475.00/475.00/0]	[103.00/103.00/0]	[508.00/508.00/0]	[510.00/510.00/0]	[500.00/499.00/4.00]	[500.00/500.00/1.00]	[500.00/500.00/0]
BLACK	[500.00/500.00/0]	[590.00/590.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute
3	S GRAY	500.00	4.00
4	S RED	500.00	3.00
5	XXL GRAY	500.00	5.00
6	XXL GREEN	499.00	4.00
7	XXL GR_LT	510.00	1.00
8	XXXL GREEN	500.00	1.00
9	XXXL RED	500.00	5.00
10	XXXXLBLUE	500.00	4.00

Distribution Balance: .00  
Qty Distributed: 32.00

Grid column Width: 10  
Enter quantities by: Columns  
Construct Grid by only existing: Lot Numbers  
Show Quantities: On Hand ☒ Available ☒ Distributed ☒

OK Cancel

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.

**S Receipt of Goods Entry (MXD) 7/17/2018**

Receipt Number 001071

1 Header | 2 Address | 3 Lines | 4 Totals

Quick Row 1

	Item Code	Ordered	Received	Unit Cost	Extension	Comment
1	CAP	30.00	30.00	11.600	348.00	

**S Lot/Serial No.- Matrix Distribution Entry**

Item Code CAP CAP

Unit of Measure EACH

Matrix Codes

	S	M	L	XL	XXL
WHITE	[4.00/4.00/0/0]	[508.00/508.00/7.00/7.00]	9.00/499.00/0	[2.00/0/0/0]	
YELL				[0/0/0/0]	[0/0/0/0]
RED	[12.00/12.00/0/0]	[509.00/509.00/0/0]		[150.00/150.00/5.00/5.00]	
BLUE	[507.00/507.00/4.00/4.00]	[501.00/501.00/4.00/4.00]	0.00/500.00/0	[505.00/505.00/2.00/2.00]	[508.00/507.00/6.00/6.00]
GREEN		[505.00/505.00/2.00/2.00]	9.00/7.00/0/0		
BLACK		[0/0/0/0]			

	Lot Number	Available	Distribute
1	M BLUE	501.00	4.00
2	M GREEN	505.00	2.00
3	M WHITE	508.00	7.00
4	S BLUE	507.00	4.00
5	XL BLUE	505.00	2.00
6	XL RED	150.00	5.00
7	XXL BLUE	507.00	6.00
8		.00	.00

UEC ☒ UPC Code

Scanning ☐ Lot No. XL BLUE

Distribution Balance .00

Qty Distributed 30.00

Grid column Width 10

Enter quantities by Columns

Construct Grid by only existing Lot Numbers

Show Quantities

On Hand ☒

Available ☒

Distributed ☒

On PO ☒

OK Cancel

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.

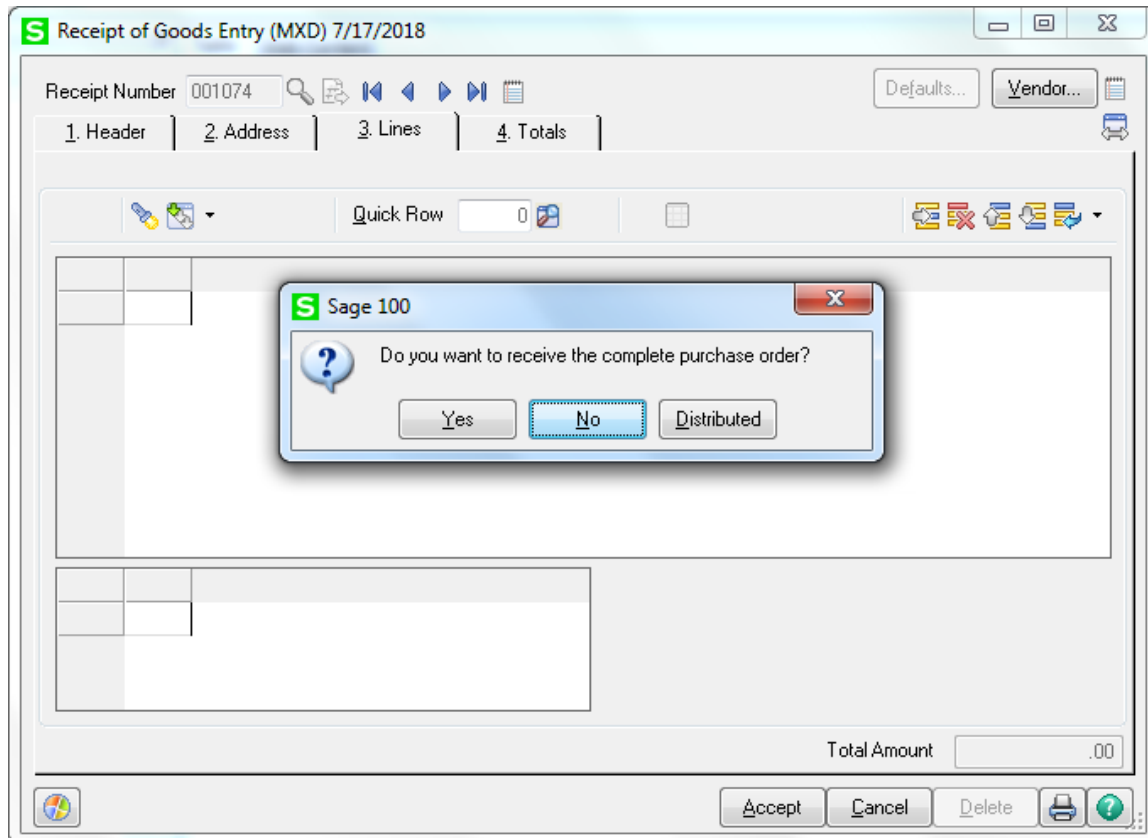
The **Quantity On PO** field displays the distributed quantities on Purchase Order.

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.

**S Receipt of Goods Entry (MXD) 7/17/2018**

Receipt Number 001076

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

Quick Row 2

	Item Code	Ordered	Received	Unit Cost	Extension	Comm
1	MXP_ITEM	26.00	26.00	24.000	624.00	
2	MXP2_ITEM	25.00	20.00	20.000	400.00	
3		.00	.00	.000	.00	

Description Matrix  
Warehouse 000  
Unit of Measure EACH  
Back Ordered 5.00

Enter qty received (Orig Order:25, Received to Date:0, Invoiced to Date:0) Total Amount 1,024.00

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.



**Return of Goods Entry (MXD) 7/17/2018**

Return Number: 001015

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

Quick Row: 1

	Item Code	Ordered	Returned	Unit Cost	Extension	Comment
1	MXP_ITEM	10.00	10.00	24.000	240.00	

**Lot/Serial No.- Matrix Distribution Entry**

Item Code: MXP\_ITEM    Matrix Item

Unit of Measure: EACH

	S	M	L	>L	>>L	>>>L	>>>>L
WHITE	[500.00/500.00/0]	[800.00/800.00/0]	[95.00/95.00/0]	[122.00/122.00/0]	[500.00/500.00/0]	500.00/500.00/0	[500.00/500.00/0]
BL_LT	[500.00/500.00/0]	[80.00/80.00/0]	[95.00/95.00/0]	[10.00/10.00/0]	[500.00/500.00/0]	515.00/515.00/0	[506.00/506.00/0]
YELL	[500.00/500.00/0]	[80.00/80.00/0]	[100.00/100.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	412.00/412.00/0	[508.00/508.00/0]
GR_LT	[500.00/499.00/0]	[100.00/100.00/0]	[95.00/95.00/0]	[5.00/4.00/0]	[510.00/510.00/0]	611.00/611.00/0	[500.00/500.00/0]
GRAY	[500.00/500.00/0]	[100.00/100.00/0]	[38.00/38.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	500.00/500.00/0	[500.00/500.00/0]
RED	[500.00/500.00/0]	[100.00/100.00/0]	[10.00/10.00/0]	[10.00/10.00/0]	[505.00/505.00/0]	500.00/500.00/0	[500.00/500.00/0]
BLUE	[5,000.00/5,000.00/0]	[89.00/89.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	500.00/500.00/0	[500.00/500.00/0]
GREEN	[475.00/475.00/0]	[103.00/103.00/0]	[506.00/506.00/0]	[510.00/510.00/0]	[500.00/499.00/0]	500.00/500.00/0	[500.00/500.00/0]
BLACK	[500.00/500.00/0]	[590.00/590.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	500.00/500.00/0	[500.00/500.00/0]

	Lot Number	Available	Distribute
1		.00	.00

Distribution Balance: 10.00  
Qty Distributed: .00

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

OK Cancel

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.

Sales Order Entry (MXD) 7/17/2018

Order Number: 0000242

Copy From... Defaults... Customer... Credit...

1. Header | 2. Address | 3. Lines | 4. Totals | 5. Payment | User: useriig

Quick Row: 1

	Item Code	Ordered	Back Ordered	Unit Price	Extension	Comment
1	MXP_ITEM	20.00	.00	65.000	1,300.00	
2		.00	.00	.000	.00	

Lot/Serial Distribution, Alt-Y

Description	Matrix Item
Warehouse	001
Unit Of Measure	EACH
Shipped	.00
Price Level	1

Available Quantity in this Warehouse is 36169 EACH

Total Amount: 1,300.00

Print Order... Print Pick... Recalc Price Accept Cancel Delete

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.

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[492.00/492.00/0]	[190.00/187.00/3.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[492.00/492.00/0]	[500.00/500.00/0]
BL_LT	[497.00/497.00/0]	[198.00/198.00/0]	[500.00/500.00/0]	[500.00/496.00/4.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
YELL	[495.00/495.00/0]	[597.00/597.00/0]	[495.00/495.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GR_LT	[500.00/498.00/2.00]	[5800.00/5800.00/0]	[490.00/490.00/0]	[483.00/479.00/4.00]	[490.00/490.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
GRAY	[490.00/490.00/0]	[500.00/500.00/0]	[495.00/495.00/0]	[500.00/495.00/4.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[494.00/494.00/0]	[499.00/499.00/0]	[485.00/485.00/0]	[494.00/494.00/0]	[500.00/500.00/0]	[498.00/498.00/0]	[495.00/495.00/0]
BLUE	[495.00/495.00/0]	[500.00/500.00/0]	[549.00/549.00/0]	[495.00/495.00/0]	[496.00/496.00/0]	[500.00/500.00/0]	[498.00/498.00/0]
GREEN	[500.00/500.00/0]	[496.00/496.00/0]	[495.00/494.00/0]	[496.00/496.00/0]	[498.00/491.00/3.00]	[500.00/500.00/0]	[493.00/493.00/0]
BLACK	[500.00/500.00/0]	[500.00/500.00/0]	[516.00/536.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute
1	M WHITE	187.00	3.00
2	S GR_LT	498.00	2.00
3	XL BL_LT	496.00	4.00
4	XL GRAY	495.00	4.00
5	XL GR_LT	479.00	4.00
6	XXL GREEN	491.00	3.00
7		.00	.00

Distribution Balance: .00  
Qty Distributed: 20.00

Show Quantities:  
On Hand ☒  
Available ☒  
Distributed ☒

OK Cancel

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.

Item Code: MXP\_ITEM Matrix Item

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[492.00/492.00/0]	[190.00/187.00/3.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[492.00/492.00/0]	[500.00/500.00/0]
BL_LT	[497.00/497.00/0]	[198.00/198.00/0]	[500.00/500.00/0]	[500.00/496.00/4.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
YELL	[495.00/495.00/0]	[597.00/597.00/0]	[495.00/495.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GR_LT	[500.00/498.00/2.00]	[5,800.00/5,800.00/0]	[490.00/490.00/0]	[483.00/479.00/4.00]	[490.00/490.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
GRAY	[490.00/490.00/0]	[500.00/500.00/0]	[495.00/495.00/0]	[500.00/495.00/4.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[494.00/494.00/0]	[499.00/499.00/0]	[485.00/485.00/0]	[494.00/494.00/0]	[500.00/500.00/0]	[498.00/498.00/0]	[495.00/495.00/0]
BLUE	[495.00/495.00/0]	[500.00/500.00/0]	[549.00/549.00/0]	[495.00/495.00/0]	[496.00/496.00/0]	[500.00/500.00/0]	[498.00/498.00/0]
GREEN	[500.00/500.00/0]	[496.00/496.00/0]	[495.00/494.00/0]	[496.00/496.00/0]	[498.00/491.00/3.00]	[500.00/500.00/0]	[493.00/493.00/0]
BLACK	[500.00/500.00/0]	[500.00/500.00/0]	[516.00/536.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute	Ordered	Backordered
1	M WHITE	187.00	3.00	3.00	.00
2	S GR_LT	498.00	2.00	2.00	.00
3	XL BL_LT	496.00	4.00	4.00	.00
4	XL GRAY	495.00	4.00	4.00	.00
5	XL GR_LT	479.00	4.00	4.00	.00
6	XXL GREEN	491.00	3.00	3.00	.00
7		.00	.00	.00	.00

Backorder Balance: .00 Distribution Balance: .00

Qty Backordered: .00 Qty Distributed: 20.00

Grid column Width: 10

Enter quantities by: Columns

Enter qty for: Distribute

Show Quantities: On Hand ☒ Available ☒ Distributed ☒

OK Cancel

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:

**S Lot/Serial No.- Matrix Distribution Entry**

Item Code: MXP\_ITEM Matrix Item: Matrix Codes

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[492.00/492.00/0]	[190.00/187.00/3.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[492.00/492.00/0]	[500.00/500.00/0]
BL_LT	[497.00/497.00/0]	[198.00/198.00/0]	[500.00/500.00/0]	[500.00/496.00/4.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
YELL	[495.00/495.00/0]	[597.00/597.00/0]	[495.00/495.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GR_LT	[500.00/498.00/2.00]	[5,800.00/5,800.00/0]	[490.00/490.00/0]	[483.00/479.00/4.00]	[490.00/490.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
GRAY	[490.00/490.00/0]	[500.00/500.00/0]	[495.00/495.00/0]	[500.00/495.00/4.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[494.00/494.00/0]	[499.00/499.00/0]	[485.00/485.00/0]	[494.00/494.00/0]	[500.00/500.00/0]	[498.00/498.00/0]	[495.00/495.00/0]
BLUE	[495.00/495.00/0]	[500.00/500.00/0]	[549.00/549.00/0]	[495.00/495.00/0]	[496.00/496.00/0]	[500.00/500.00/0]	[498.00/498.00/0]
GREEN	[500.00/500.00/0]	[496.00/496.00/0]	[495.00/494.00/0]	[496.00/496.00/0]	[498.00/491.00/3.00]	[500.00/500.00/0]	[493.00/493.00/0]
BLACK	[500.00/500.00/0]	[500.00/500.00/0]	[516.00/536.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute	Ordered	Backordered
1	M WHITE	187.00	3.00	3.00	.00
2	S GR_LT	498.00	2.00	2.00	.00
3	XL BL_LT	496.00	4.00	4.00	.00
4	XL GRAY	495.00	4.00	4.00	.00
5	XL GR_LT	479.00	4.00	4.00	.00
6	XXL GREEN	491.00	3.00	3.00	.00
7		.00	.00	.00	.00

Grid column Width: 10

Enter quantities by: Columns

Enter qty for: Distribute

Show Quantities: On Hand ☒ Available ☒ Distributed ☒

Backorder Balance: .00 Distribution Balance: .00

Qty Backordered: .00 Qty Distributed: 20.00

OK Cancel

Here is the Order invoiced:

**S/O Invoice Data Entry (MXD) 7/17/2018**

Invoice No. 0100208

Defaults... Customer... Credit...

1. Header | 2. Address | 3. Lines | 4. Totals | 5. Payment

Quick Row 1

	Item Code	Ordered	Shipped	Unit Price	Extension	Comment
1	MXP_ITEM	20.00	10.00	65.000	650.00	
2		.00	.00	.000	.00	

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

Total Amount 650.00

Quick Print

Accept Cancel Delete

**S** Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP\_ITEM Matrix Item: Matrix Codes

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[492.00/492.00/0]	90.00/187.00/2.00	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[492.00/492.00/0]	[500.00/500.00/0]
BL_LT	[497.00/497.00/0]	[198.00/198.00/0]	[500.00/500.00/0]	500.00/496.00/2.00	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
YELL	[495.00/495.00/0]	[597.00/597.00/0]	[495.00/495.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GR_LT	[500.00/498.00/2.00]	800.00/5.800.00/0	[490.00/490.00/0]	[483.00/479.00/0]	[490.00/490.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
GRAY	[490.00/490.00/0]	[500.00/500.00/0]	[495.00/495.00/0]	500.00/495.00/2.00	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[494.00/494.00/0]	[499.00/499.00/0]	[485.00/485.00/0]	[494.00/494.00/0]	[500.00/500.00/0]	[498.00/498.00/0]	[495.00/495.00/0]
BLUE	[495.00/495.00/0]	[500.00/500.00/0]	[549.00/549.00/0]	[495.00/495.00/0]	[496.00/496.00/0]	[500.00/500.00/0]	[498.00/498.00/0]
GREEN	[500.00/500.00/0]	[496.00/496.00/0]	[495.00/494.00/0]	[496.00/496.00/0]	498.00/491.00/2.00	[500.00/500.00/0]	[493.00/493.00/0]
BLACK	[500.00/500.00/0]	[500.00/500.00/0]	[516.00/536.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute	Ordered	Backordered
1	M WHITE	187.00	2.00	3.00	1.00
2	S GR_LT	498.00	2.00	2.00	.00
3	XL BL_LT	496.00	2.00	4.00	2.00
4	XL GRAY	495.00	2.00	4.00	2.00
5	XL GR_LT	479.00	.00	4.00	4.00
6	XXL GREEN	491.00	2.00	3.00	1.00
7		.00	.00	.00	.00

Grid column Width: 10

Enter quantities by: Columns

Enter qty for: Distribute

Show Quantities:   
☒ On Hand   
☒ Available   
☒ Distributed

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

OK Cancel

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.

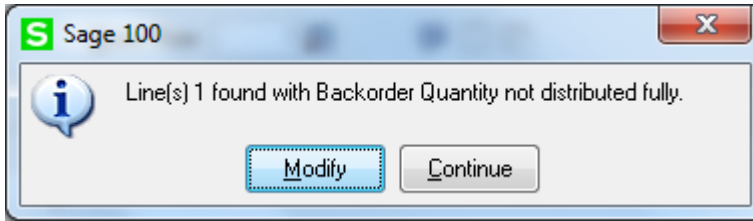
**S** Sage 100

 Line number 1 has Negative Backorder Distribution Balance.

Modify



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:

**S Sales Order Entry (MXD) 7/17/2018**

Order Number: 0000243

1. Header | 2. Address | 3. Lines | 4. Totals | 5. Payment | User: useriig

Quick Row: 1

	Item Code	Ordered	Back Ordered	Unit Price	Extension	Comment
1	MXP_ITEM	20.00	10.00	65.000	1,300.00	

---

**S Lot/Serial No. - Matrix Distribution Entry**

Item Code: MXP\_ITEM Matrix Item

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[492.00/492.00/0]	[190.00/187.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[492.00/492.00/0]	[500.00/500.00/0]
BL_LT	[497.00/497.00/0]	[198.00/196.00/2.00]	[500.00/500.00/0]	[500.00/496.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
YELL	[495.00/495.00/0]	[597.00/597.00/0]	[495.00/495.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GR_LT	[500.00/498.00/0]	[580.00/580.00/0]	[490.00/490.00/0]	[483.00/479.00/0]	[490.00/490.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
GRAY	[490.00/490.00/0]	[500.00/500.00/0]	[495.00/495.00/0]	[500.00/493.00/2.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[494.00/494.00/0]	[499.00/499.00/0]	[485.00/485.00/0]	[494.00/494.00/0]	[500.00/498.00/2.00]	[498.00/498.00/0]	[495.00/495.00/0]
BLUE	[495.00/493.00/2.00]	[500.00/500.00/0]	[549.00/549.00/0]	[495.00/495.00/0]	[496.00/496.00/0]	[500.00/500.00/0]	[498.00/498.00/0]
GREEN	[500.00/500.00/0]	[496.00/496.00/0]	[495.00/494.00/0]	[496.00/496.00/0]	[498.00/498.00/2.00]	[500.00/500.00/0]	[493.00/493.00/0]
BLACK	[500.00/500.00/0]	[500.00/500.00/0]	[516.00/536.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute
1	M BL_LT	196.00	2.00
2	S BLUE	493.00	2.00
3	XL GRAY	493.00	2.00
4	XXL GREEN	489.00	2.00
5	XXL RED	498.00	2.00
6		.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

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

## Shipping Data Entry

### *Item Packaging*

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.

If the UPC Code of Matrix Lot is scanned in the Item Code field the Lot quantity in current package is incremented upon each scan. If the shipped quantity is less than and the Lots are redistributed, the packaging information for Lot/Serial numbers is updated accordingly.

In the Shipped column, enter the quantity that will go into package 1 for each line.

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

Shipping Data Entry (MXD) 7/17/2018

Shipper ID: 1 Ship Date: 7/17/2018 Order No.: 0000244  
 Shipping No.: 0100209 Ship Status: New SO Created By: IIG  
 Customer No.: 01-ABF American Business Futures

1. Lines 2. Shipping

Item Code Quick Row 1 Pkg 0001

	Item Code	Ordered	Shipped	Back Ordered	Comment
1	CAP	7.00	7.00	.00	
2	1001-HON-H252	2.00	2.00	.00	
3	2480-8-50	2.00	2.00	.00	

Description: CAP Warehouse: 000 U/M: EACH Package: 0001

Quick Print Auto Increment ☒ Accept Cancel Delete

The Lot/Serial Distribution is displayed above the packaging grid:

Item Code: CAP

Shipped Qty: 7.00

Lot/Serial No	Quantity
L WHITE	1.00
M GREEN	2.00
S RED	2.00
XL BLUE	2.00

	Package No	Lot/Serial No	Quantity
1	0001	L WHITE	1.00
2	0001	M GREEN	2.00
3	0001	S RED	2.00
4	0001	XL BLUE	2.00
5			.00

Accept Cancel

In parallel with standard Item Packaging table the packaging information for Lot/Serial is stored in the "SO068\_MXPPackageTrackByItemLot.M4T" table.

The Lot/Serial quantities can be moved from one package to another with respective quantity distributed.

Item Code: CAP

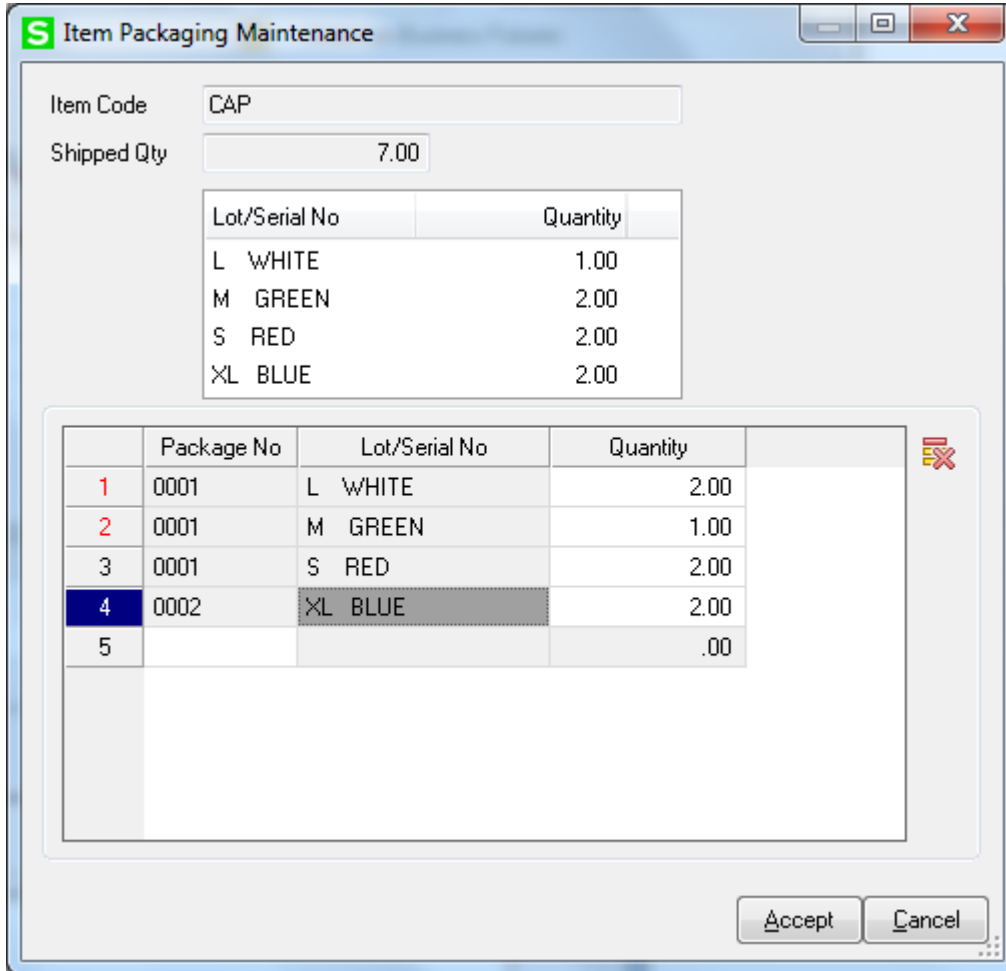
Shipped Qty: 7.00

Lot/Serial No	Quantity
L WHITE	1.00
M GREEN	2.00
S RED	2.00
XL BLUE	2.00

	Package No	Lot/Serial No	Quantity
1	0001	L WHITE	1.00
2	0001	M GREEN	2.00
3	0001	S RED	2.00
4	0002	XL BLUE	2.00
5			.00

Accept Cancel

A prompt will appear when accepting the Item Packaging Maintenance if the Lot/serial No quantity in the package doesn't match the quantity distributed:



**Item Packaging Maintenance**

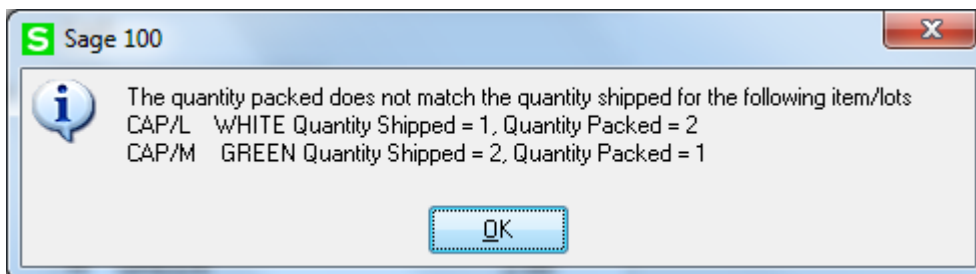
Item Code: CAP

Shipped Qty: 7.00

Lot/Serial No	Quantity
L WHITE	1.00
M GREEN	2.00
S RED	2.00
XL BLUE	2.00

	Package No	Lot/Serial No	Quantity
1	0001	L WHITE	2.00
2	0001	M GREEN	1.00
3	0001	S RED	2.00
4	0002	XL BLUE	2.00
5			.00

Accept Cancel



**Sage 100**

The quantity packed does not match the quantity shipped for the following item/lots  
 CAP/L WHITE Quantity Shipped = 1, Quantity Packed = 2  
 CAP/M GREEN Quantity Shipped = 2, Quantity Packed = 1

OK

After the Sales Journal is updated Lot/Serial packaging information is moved to the "AR068\_MXPTrackingByItemLotHist.M4T" table.

## 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.

Item Code: MXP\_ITEM Matrix Item

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[492.00/492.00/0]	[190.00/187.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[492.00/492.00/0]	[500.00/500.00/0]
BL_LT	[497.00/497.00/0]	[198.00/196.00/0]	[500.00/500.00/0]	[500.00/496.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
YELL	[495.00/495.00/0]	[597.00/597.00/0]	[495.00/495.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GR_LT	[500.00/498.00/0]	[5.800.00/5.800.00/0]	[490.00/490.00/0]	[483.00/479.00/0]	[490.00/490.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
GRAY	[490.00/490.00/0]	[500.00/500.00/0]	[495.00/495.00/0]	[500.00/493.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[494.00/494.00/0]	[499.00/499.00/0]	[485.00/485.00/0]	[494.00/494.00/0]	[500.00/498.00/0]	[498.00/498.00/0]	[495.00/495.00/0]
BLUE	[495.00/493.00/0]	[500.00/500.00/0]	[549.00/549.00/0]	[495.00/495.00/0]	[496.00/496.00/0]	[500.00/500.00/0]	[498.00/498.00/0]
GREEN	[500.00/500.00/0]	[496.00/496.00/0]	[495.00/494.00/0]	[496.00/496.00/0]	[498.00/489.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
BLACK	[500.00/500.00/0]	[500.00/500.00/0]	[516.00/536.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

Grid column Width: 10

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.

**S Transaction Entry (MXD) 7/17/2018**

Transaction Type: Adjustments  
Entry Number: 00000104

1. Header | 2. Lines

Quick Row: 1

	Item Code	Quantity	Unit Cost	Extension
1	MXP_ITEM	5.00	24.000	120.00
2				

**Matrix Distribution Entry**

Item Code: MXP\_ITEM  
Unit of Measure: EACH

Size:    
Color:    
Lot Number:

Available: .00  
Distribute: .00

Distribution Balance: 5.00

OK Cancel

On hand quantity in this warehouse is 29232 EACH  
Total Amount: 120.00

Accept Cancel Delete

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

**Matrix Distribution Entry**

Item Code: MXP\_ITEM Matrix Item  
Unit of Measure: EACH

Size: XL   
Color: YELL   
Lot Number: XL YELL

Available: 500.00  
Distribute: 5.00

Distribution Balance: .00

OK Cancel

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.

Physical Count Entry (MXD) 7/17/2018

Warehouse: 000  
Description: CENTRAL WAREHOUSE

1. Header | 2. Lines

Quick Row: 1

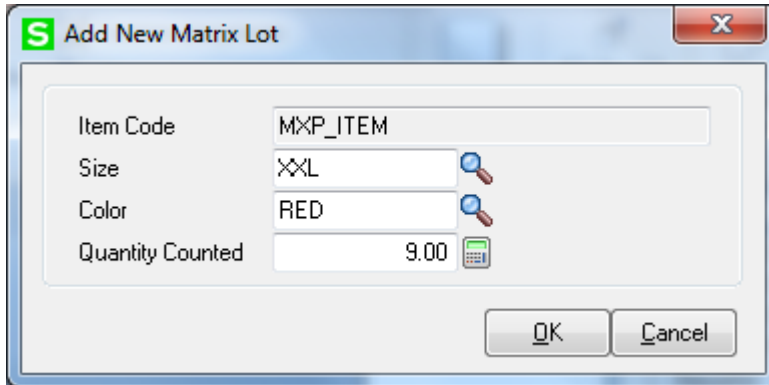
Add New Lot/Serial Number, Alt-L

	Item Code	Bin Location	Lot/Serial	Quantity on Hand	Quantity Counted
2	MXP_ITEM		L BLACK	500.00	.00
3	MXP_ITEM		L BLUE	500.00	.00
4	MXP_ITEM		L BL_LT	95.00	.00
5	MXP_ITEM		L GRAY	38.00	.00
6	MXP_ITEM		L GREEN	508.00	.00
7	MXP_ITEM		L GR_LT	95.00	.00
8	MXP_ITEM		L RED	10.00	.00
9	MXP_ITEM		L WHITE	95.00	.00

Description	Matrix Item
Unit of Measure	EACH
Inventory Cycle	
Product Line	SPW
Product Type	Finished Goods

Accept Cancel [Print] [Checkmark]

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



Item Code	MXP_ITEM
Size	XXL
Color	RED
Quantity Counted	9.00

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.

**S** Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP\_ITEM Matrix Item: Matrix Codes

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE							
BL_LT							
YELL							
GR_LT							
GRAY							
RED							
BLUE							
GREEN							
BLACK			[2.00/0]				

Grid column Width: 15

Enter quantities by: Columns

	Lot Number	Available	Distribute
1		.00	.00

Distribution Balance: 7.00  
 Qty Distributed: .00

Show Quantities:  
 Available: ☒  
 Distributed: ☒

OK Cancel

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

## Production Entry

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

Production Entry (MXD) 7/17/2018

Production Number: 0000018

Production Date: 7/17/2018

Bill Number: MXP\_ITEM

Bill Type: Standard

Revision: 000

Option Code:

Quantity: 2.00

Unit of Measure: EACH

Parent Warehouse: 000 CENTRAL WAREHOUSE

Component Warehouse: 000 CENTRAL WAREHOUSE

Explode Sub-Assemblies: ☐

**Matrix** Auto Distribute Lines ☒

Accept Cancel Delete

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:

**S** Lot/Serial No.- Matrix Distribution Entry

Item Code: MXP\_ITEM Matrix Item: Matrix Codes

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[500.00/500.00/0]	[800.00/800.00/0]	[95.00/95.00/0]	[122.00/122.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
BL_LT	[500.00/500.00/0]	[80.00/80.00/0]	[95.00/95.00/0]	[10.00/10.00/0]	[550.00/550.00/0]	[515.00/515.00/0]	[506.00/506.00/0]
YELL	[500.00/500.00/0]	[80.00/80.00/0]	[100.00/100.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[412.00/412.00/0]	[508.00/508.00/0]
GR_LT	[500.00/499.00/0]	[100.00/100.00/0]	[95.00/95.00/0]	[5.00/2.00/0]	[510.00/510.00/0]	[611.00/611.00/0]	[500.00/500.00/0]
GRAY	[500.00/500.00/0]	[100.00/98.00/0]	[38.00/38.00/1.00]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[500.00/500.00/0]	[100.00/100.00/0]	[10.00/10.00/0]	[10.00/10.00/0]	[505.00/505.00/0]	[500.00/500.00/0]	[500.00/498.00/0]
BLUE	[5,000.00/5,000.00/0]	[89.00/89.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GREEN	[475.00/475.00/0]	[103.00/103.00/1.00]	[508.00/508.00/0]	[510.00/510.00/0]	[500.00/497.00/0]	[500.00/498.00/0]	[500.00/500.00/0]
BLACK	[500.00/500.00/0]	[590.00/590.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute
1	L GRAY	38.00	1.00
2	M GREEN	103.00	1.00
3		.00	.00

Grid column Width: 15  
Enter quantities by: Rows

Show Quantities:  
On Hand ☒  
Available ☒  
Distributed ☒

Distribution Balance: .00  
Qty Distributed: 2.00

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 image shows two overlapping software windows. The top window is titled "Production Entry (MXD) 7/17/2018". It has a "Production Number" field with the value "0000018" and a "Defaults..." button. Below this are tabs for "1. Header" and "2. Lines". The "2. Lines" tab is active, showing a table with columns: Component Item Code, Quantity/Bill, Extended Quantity, and Comment. The table contains three rows:

	Component Item Code	Quantity/Bill	Extended Quantity	Comment
1	BOOTS-EJM876	2.00	4.00	
2	CAP	1.00	2.00	
3	MXP2_ITEM	3.00	6.00	

The bottom window is titled "Lot/Serial No. Matrix Distribution Entry". It has fields for "Item Code" (MXP2\_ITEM) and "Unit of Measure" (EACH). Below these is a "Matrix" table with columns: S, M, L, XL, XXL, XXXL, XXXXL. The rows are color-coded and contain values in parentheses, representing ranges or quantities. Below the matrix is a table with columns: Lot Number, Available, and Distribute. It contains four rows of data:

	Lot Number	Available	Distribute
1	L RED	499.00	1.00
2	M GREEN	597.00	3.00
3	S RED	698.00	2.00
4		.00	.00

At the bottom right of the window, there are fields for "Distribution Balance" (.00) and "Qty Distributed" (6.00). There are also checkboxes for "Show Quantities: On Hand", "Available", and "Distributed", all of which are checked. "OK" and "Cancel" buttons are at the bottom right.

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

## Disassembly Entry

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

The screenshot shows the 'Disassembly Entry (MXD) 7/17/2018' window. It features a header section with 'Disassembly Number' (0000009) and 'Disassembly Date' (7/17/2018). Below this is a section for '1. Header' and '2. Lines'. The 'Bill Number' is set to 'MXP\_ITEM' and 'Bill Type' is 'Standard'. The 'Revision' is '000', 'Option Code' is empty, 'Quantity' is '2.00', and 'Unit of Measure' is 'EACH'. The 'Parent Warehouse' is '000', 'Component Warehouse' is '000', 'Disassembly Type' is 'Produced Item', and 'Explode Sub-Assemblies' is unchecked. At the bottom, there are buttons for 'Accept', 'Cancel', 'Delete', and a help icon.

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

**S Lot/Serial No. - Matrix Distribution Entry**

Item Code: MXP\_ITEM      Matrix Item:      Matrix Codes:      Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[500.00/500.00/0]	[800.00/800.00/0]	[95.00/94.00/1.00]	[122.00/122.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
BL_LT	[500.00/500.00/0]	[80.00/80.00/0]	[95.00/95.00/0]	[10.00/10.00/0]	[550.00/550.00/0]	[515.00/515.00/0]	[506.00/506.00/0]
YELL	[500.00/500.00/0]	[80.00/80.00/0]	[100.00/100.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[412.00/412.00/0]	[508.00/508.00/0]
GR_LT	[500.00/499.00/0]	[100.00/100.00/0]	[95.00/95.00/0]	[5.00/2.00/0]	[510.00/510.00/0]	[611.00/611.00/0]	[500.00/500.00/0]
GRAY	[500.00/500.00/0]	[100.00/98.00/0]	[38.00/38.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[500.00/500.00/0]	[100.00/100.00/0]	[10.00/10.00/0]	[10.00/10.00/0]	[505.00/505.00/0]	[500.00/500.00/0]	[500.00/498.00/0]
BLUE	[500.00/4,999.00/1.0]	[89.00/89.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GREEN	[475.00/475.00/0]	[103.00/103.00/0]	[508.00/508.00/0]	[510.00/510.00/0]	[500.00/497.00/0]	[500.00/498.00/0]	[500.00/500.00/0]
BLACK	[500.00/500.00/0]	[590.00/590.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute
1	S BLUE	4,999.00	1.00
2	L WHITE	94.00	1.00
3		.00	.00

Distribution Balance: .00  
Qty Distributed: 2.00

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

OK Cancel

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



## Predefined Distribution in Bills

### Bill of Materials Maintenance

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

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

Bill of Materials Maintenance (MXD) 7/17/2018

Bill Number: MXP\_ITEM  
Revision: 000  
Description 1: MXP  
Description 2:   
Bill Type: Standard

1. Header | 2. Lines

Quick Row: 1

	Component Item Code	Revision	Step No.	Quantity/Bill	Co
1	MXP2_ITEM			3.00	
2	T-SHRT			2.00	
3	CAP	*		1.00	
4	BOOTS-EJM876			2.00	
5				.00	

Predefined Distribution - Alt+Y

Description	Matrix
Find No.	
Unit Of Measure	EACH
Cost Account	

Accept Cancel Delete

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

Predefined Distribution Maintenance

Bill Number MXP\_ITEM MXP

Item Code MXP2\_ITEM Matrix

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.

**S** Predefined Distribution Maintenance

Bill Number: MXP\_ITEM MXP

Item Code: MXP2\_ITEM Matrix

Bill Lot No. L BLACK

	Component Lot Number	Quantity
1	L BLACK	1.00
2	M RED	1.00
3	XL GREEN	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.

**S** Predefined Distribution Maintenance

Bill Number: MXP\_ITEM MXP

Item Code: MXP2\_ITEM Matrix

Bill Lot No. L BLACK

Existing Bill Lots List

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

Balance: .00 Quantity: 3.00

Close

Bill Lots Distribution List

Bill Lot No.

L BLACK

Search Bill Lot No. Begins with Find

Filters...

Custom... Lookup Wizard...

Select Cancel Excel Print Help

Found 1 records

## Inquiries

### Purchase Order Inquiry

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

**S** Purchase Order Inquiry (MXD) 7/17/2018

Order Number: 0010102

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

Quick Row: 1

	Item Code	Ordered	Back Ordered	Unit Cost	Extension	Comment
1	MXP_ITEM	10.00	.00	24.000	240.00	

Lot/Serial Distribution, Alt-J

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

Total Amount: 240.00

Quick Print... OK

**S Lot/Serial No.- Matrix Distribution Inquiry**

Item Code: MXP\_ITEM      Matrix Item:      Matrix Codes:

Unit of Measure: EACH

	S	M	L	XL	XXL	XXXL	XXXXL
WHITE	[492.00/492.00/0]	[190.00/187.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[492.00/492.00/0]	[500.00/500.00/0]
BL_LT	[497.00/497.00/0]	198.00/196.00/2.00	[500.00/500.00/0]	[500.00/496.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
YELL	[495.00/495.00/0]	[597.00/597.00/0]	[495.00/495.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
GR_LT	[500.00/498.00/0]	5,800.00/5,800.00/0	[490.00/490.00/0]	[483.00/479.00/0]	[490.00/490.00/0]	[500.00/500.00/0]	[493.00/493.00/0]
GRAY	[490.00/490.00/0]	[500.00/500.00/0]	[495.00/495.00/0]	500.00/493.00/2.00	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]
RED	[494.00/494.00/0]	[499.00/499.00/0]	[485.00/485.00/0]	[494.00/494.00/0]	500.00/498.00/2.00	[498.00/498.00/0]	[495.00/495.00/0]
BLUE	495.00/493.00/2.00	[500.00/500.00/0]	[549.00/549.00/0]	[495.00/495.00/0]	[496.00/496.00/0]	[500.00/500.00/0]	[498.00/498.00/0]
GREEN	[500.00/500.00/0]	[496.00/496.00/0]	[495.00/494.00/0]	[496.00/496.00/0]	498.00/489.00/2.00	[500.00/500.00/0]	[493.00/493.00/0]
BLACK	[500.00/500.00/0]	[500.00/500.00/0]	[516.00/536.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]	[500.00/500.00/0]

	Lot Number	Available	Distribute
1	M BL_LT	196.00	2.00
2	S BLUE	493.00	2.00
3	XL GRAY	493.00	2.00
4	XXL GREEN	489.00	2.00
5	XXL RED	498.00	2.00

Distribution Balance: .00  
Qty Distributed: 10.00

Grid column Width: 14  
Enter quantities by: Columns  
Construct Grid by only existing: Matrix Codes  
Show Quantities: On Hand ☒ Available ☒ Distributed ☒

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

## Printings

### Matrix Sales History Report

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

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

**Matrix Sales History Report (MXD) 7/17/2018**

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: 2017   Ending: 2018   Include Ship-to Detail ☐

Product Types to Print

All Types ☒ Finished Goods ☒ Raw Materials ☒ Discontinued ☒

Procurement Types to Print

All Types ☒ Make ☒ Buy ☒ Subcontract ☒

Data to Print

Quantity Sold ☒ Gross Profit Percent ☒ Quantity Returned ☒

Dollars Sold ☒ Cost of Goods Sold ☒

Selections

Select Field	Operand	Value
Item Code	All	
Product Line	All	
Primary Vendor Number	All	
Item Description	All	
Customer Number	All	
Year to Date Dollars Sold	All	

Microsoft XPS Document Writer  ☐ Print ☐ Preview ☐

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: 2017 To: 2018												
MXD Company (MXD)												
Item Code	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
T-SHIRT	T-SHIRT											
Quantity Sold:	0	0	0	0	5	0	0	0	0	0	0	0
Dollars Sold:	0	0	0	0	325	0	0	0	0	0	0	0
Gross Profit Percent:	0.00%	0.00%	0.00%	0.00%	63.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cost of Goods Sold:	0	0	0	0	120	0	0	0	0	0	0	0
Quantity Returned:	0	0	0	0	0	0	0	0	0	0	0	0
Size	L	Color	BLUE									
Customer Number:	01-ABF American Business Futures											
Year: 2017												
Quantity Sold:	0	0	0	0	2	0	0	0	0	0	0	0
Dollars Sold:	0	0	0	0	130	0	0	0	0	0	0	0
Gross Profit Percent:	0.00%	0.00%	0.00%	0.00%	63.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cost of Goods Sold:	0	0	0	0	48	0	0	0	0	0	0	0
Quantity Returned:	0	0	0	0	0	0	0	0	0	0	0	0
Size	L	Color	BLACK									
Customer Number:	01-ABF American Business Futures											
Year: 2017												
Quantity Sold:	0	0	0	0	2	0	0	0	0	0	0	0
Dollars Sold:	0	0	0	0	130	0	0	0	0	0	0	0
Gross Profit Percent:	0.00%	0.00%	0.00%	0.00%	63.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cost of Goods Sold:	0	0	0	0	48	0	0	0	0	0	0	0
Quantity Returned:	0	0	0	0	0	0	0	0	0	0	0	0
Year: 2018												
Quantity Sold:	0	0	0	0	0	0	2	0	0	0	0	0
Dollars Sold:	0	0	0	0	0	0	130	0	0	0	0	0
Gross Profit Percent:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	63.08%	0.00%	0.00%	0.00%	0.00%	0.00%
Cost of Goods Sold:	0	0	0	0	0	0	48	0	0	0	0	0
Quantity Returned:	0	0	0	0	0	0	0	0	0	0	0	0
Size	XL	Color	GRAY									
Customer Number:	01-ABF American Business Futures											
Year: 2018												
Quantity Sold:	0	0	0	0	0	0	1	0	0	0	0	0
Dollars Sold:	0	0	0	0	0	0	25	0	0	0	0	0
Gross Profit Percent:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cost of Goods Sold:	0	0	0	0	0	0	24	0	0	0	0	0
Quantity Returned:	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

## 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.

**Matrix Stock Status Report (MXD) 7/17/2018**

Report Setting: STANDARD

Description: Matrix Stock Status Report

Setting Options:

Type: Public ☐ Print Report Settings ☐ Number of Copies: 1 ☐ Collated ☒

Default Report: ☒ Three Hole Punch ☐

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 ☒

Selections:

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 ☐

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**  
Sorted by Item Code

MXD Company (MXD)

Item Code/Description	Primary Vendor	Product Line	Product Type	Unit Of Measure	Weight	Size	Color	Quantity	Reorder Point	Average Cost
								On Hand	Available	
BELT-WIDE WIDE BELT										
02-BROWN	SPW	Finished Good	EACH	000		STD	BLACK	7.00	8.00	
						STD	BLUE	2.00	6.00	
						STD	GREEN	3.00	8.00	
						STD	WHITE	3.00	8.00	
							Warehouse 001 Total:	15.00	30.00	
						001	STD	BLACK	480.00	480.00
						STD	BLUE	498.00	500.00	
						STD	BROWN	500.00	500.00	
						STD	GREEN	500.00	500.00	
						STD	WHITE	500.00	500.00	
							Warehouse 001 Total:	2,478.00	2,480.00	
							Item BELT-WIDE Total:	2,493.00	2,510.00	
										Cycle: 0.00
										10.996
BLINKERS BLINKERS										
01-CONT	SPW	Finished Good	EACH	000		S	WHITE	998.00	1,000.00	
						S	BLLT	500.00	500.00	
						S	RED	500.00	502.00	
						S	BLUE	500.00	500.00	
						S	GREEN	500.00	500.00	
						S	BLACK	1,002.00	1,002.00	
						M	WHITE	998.00	1,000.00	
						M	BLLT	504.00	504.00	
						M	YELL	505.00	507.00	
						M	GR_LT	508.00	508.00	
						M	GRAY	500.00	500.00	
						M	RED	1,002.00	1,002.00	
						M	BLUE	500.00	503.00	
						M	GREEN	500.00	501.00	
						M	BLACK	500.00	502.00	
						L	WHITE	500.00	500.00	
						L	BLLT	500.00	500.00	
						L	YELL	506.00	506.00	
						L	GRAY	500.00	500.00	
						L	RED	500.00	500.00	
						L	BLUE	500.00	502.00	
										Cycle: 0.00
										35.596

Current Page No.: 1      Total Page No.: 5      Zoom Factor: 100%

## Matrix Stock Status Report (Grid)

**Report Setting** STANDARD Save

**Description** Matrix Stock Status Report (Grid)

**Setting Options**

Type: Public Print Report Settings ☐ Number of Copies 1 Collated ☒

Default Report ☒ Three Hole Punch ☐

**Sort Report By** Item Code

**Options**

Print Zero Balances ☒ 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 ☒

**Selections**

Select Field	Operand	Value	
Item Code	Range	MXP2_ITEM	MXP_ITEM
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

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

Matrix Stock Status Report (Grid)

2
 /2+

Main Report

**Matrix Stock Status Report (Grid)**  
 Sorted by Item Code

MXD Company (MXD)

Item Code/Description	Primary Vendor	Product Line	Product Type	Unit Of Measure	Whse	Reorder Point	Average Cost			
					000		0.00			
			SMALL	MEDIUM	LARGE	EXTRA LAR	EXTRA EXT	XXX LARGE	XXXX LAR	Total
WHITE	On Hand	500.00	800.00	95.00	122.00	500.00	500.00	500.00	500.00	3,017.00
	Available	504.00	800.00	94.00	122.00	500.00	500.00	500.00	500.00	3,020.00
LIGHT BLUE	On Hand	500.00	80.00	95.00	10.00	550.00	515.00	508.00	508.00	2,256.00
	Available	506.00	80.00	117.00	10.00	550.00	521.00	508.00	508.00	2,290.00
YELLOW	On Hand	500.00	80.00	100.00	500.00	500.00	412.00	508.00	508.00	2,600.00
	Available	505.00	82.00	104.00	502.00	500.00	412.00	508.00	508.00	2,613.00
LIGHT GREEN	On Hand	500.00	100.00	95.00	5.00	510.00	511.00	500.00	500.00	2,321.00
	Available	501.00	105.00	95.00	3.00	513.00	511.00	504.00	504.00	2,332.00
GRAY	On Hand	500.00	100.00	38.00	500.00	500.00	501.00	500.00	500.00	2,638.00
	Available	508.00	98.00	41.00	503.00	505.00	501.00	505.00	505.00	2,661.00
RED	On Hand	500.00	100.00	10.00	10.00	505.00	500.00	500.00	500.00	2,125.00
	Available	503.00	102.00	11.00	13.00	505.00	517.00	498.00	498.00	2,149.00
BLUE	On Hand	5,000.00	89.00	500.00	500.00	500.00	500.00	500.00	500.00	7,589.00
	Available	4,999.00	92.00	502.00	500.00	500.00	500.00	504.00	504.00	7,597.00
GREEN	On Hand	475.00	103.00	508.00	510.00	500.00	500.00	500.00	500.00	3,096.00
	Available	475.00	103.00	513.00	510.00	505.00	499.00	505.00	505.00	3,110.00
BLACK	On Hand	500.00	590.00	500.00	500.00	500.00	500.00	500.00	500.00	3,590.00
	Available	500.00	590.00	500.00	500.00	500.00	500.00	500.00	500.00	3,590.00
Total	On Hand	8,975.00	2,042.00	1,941.00	2,857.00	4,555.00	4,538.00	4,514.00	4,514.00	29,232.00
	Available	9,001.00	2,052.00	1,977.00	2,883.00	4,576.00	4,561.00	4,530.00	4,530.00	29,382.00

			SMALL	MEDIUM	LARGE	EXTRA LAR	EXTRA EXT	XXX LARGE	XXXX LAR	Total
WHITE	On Hand	492.00	188.00	500.00	500.00	500.00	492.00	500.00	500.00	3,172.00
	Available	492.00	190.00	500.00	500.00	500.00	492.00	500.00	500.00	3,174.00
LIGHT BLUE	On Hand	497.00	198.00	500.00	498.00	500.00	500.00	500.00	500.00	3,193.00
	Available	497.00	200.00	502.00	500.00	500.00	500.00	500.00	500.00	3,199.00
YELLOW	On Hand	495.00	597.00	495.00	500.00	500.00	500.00	500.00	500.00	3,587.00
	Available	495.00	600.00	495.00	500.00	500.00	500.00	500.00	500.00	3,590.00
LIGHT GREEN	On Hand	498.00	5,800.00	490.00	483.00	490.00	500.00	493.00	493.00	8,754.00
	Available	500.00	5,800.00	490.00	483.00	490.00	500.00	493.00	493.00	8,756.00
GRAY	On Hand	490.00	500.00	495.00	495.00	500.00	500.00	500.00	500.00	3,483.00
	Available	490.00	500.00	495.00	495.00	500.00	500.00	500.00	500.00	3,483.00

Current Page No.: 2

Total Page No.: 2+

Zoom Factor: 100%

## Matrix Committed Report

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

Matrix Committed Report (MXD) 7/17/2018

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	YELL

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											
Main Report											
Matrix Committed Report Sorted by Item Code											
MXD Company (MXD)											
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
					M	BLACK	800.00	0.00	0.00	0.00	800.00
					L	WHITE	900.00	0.00	0.00	0.00	900.00
					L	YELL	500.00	5.00	0.00	0.00	500.00
					L	RED	500.00	5.00	0.00	0.00	499.00
					L	BLUE	500.00	0.00	0.00	0.00	500.00
					L	GREEN	500.00	9.00	0.00	0.00	499.00
					L	BLACK	500.00	0.00	0.00	0.00	500.00
					XL	WHITE	500.00	4.00	0.00	0.00	499.00
					XXL	BLUE	500.00	3.00	0.00	0.00	500.00
Warehouse 000 Total:							11,950.00	55.00	0.00	0.00	11,938.00
001											
					S	WHITE	480.00	0.00	0.00	0.00	480.00
					S	YELL	5,478.00	0.00	0.00	0.00	5,478.00
					S	RED	533.00	0.00	0.00	0.00	533.00
					S	BLUE	1,349.00	1.00	0.00	0.00	1,349.00
					S	GREEN	550.00	0.00	0.00	0.00	550.00
					S	BLACK	1,080.00	0.00	0.00	0.00	1,080.00
					M	WHITE	580.00	0.00	0.00	0.00	580.00
					M	YELL	580.00	0.00	0.00	0.00	580.00
					M	RED	578.00	4.00	0.00	0.00	578.00
					M	BLUE	580.00	0.00	0.00	0.00	580.00
					M	GREEN	578.00	4.00	0.00	0.00	578.00
					M	BLACK	580.00	0.00	0.00	0.00	580.00
					L	WHITE	550.00	0.00	0.00	0.00	550.00
					L	YELL	550.00	0.00	0.00	0.00	550.00
					L	RED	590.00	0.00	0.00	0.00	590.00
					L	BLUE	500.00	0.00	0.00	0.00	500.00
					L	GREEN	500.00	0.00	0.00	0.00	500.00
					XL	WHITE	494.00	0.00	0.00	0.00	494.00
					XL	YELL	500.00	0.00	0.00	0.00	500.00
					XL	RED	500.00	0.00	0.00	0.00	500.00
					XL	BLUE	500.00	0.00	0.00	0.00	500.00
					XXL	GREEN	500.00	0.00	0.00	0.00	500.00
					XXXL	GREEN	500.00	0.00	0.00	0.00	500.00
Warehouse 001 Total:							18,628.00	9.00	0.00	0.00	18,628.00
Item MXP2_ITEM Total:							30,578.00	64.00	0.00	0.00	30,564.00
Average Cost:											24.003
MXP_ITEM 01-STEV	Matrix Item	SPW	Finished Good	EACH	000	S	WHITE	500.00	4.00	0.00	500.00
					S	BLU	500.00	6.00	0.00	0.00	500.00
					S	YELL	500.00	5.00	0.00	0.00	500.00

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

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

## Inventory Valuation Report

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

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

Inventory Valuation Report										
Sorted by Item Code										
MXD Company (MXD)										
Item Code	Item Description		Unit of			Receipt	Receipt			
Product	Product Type	Valuation	Measure	Whse	Lot/Serial Number	Number	Date	Quantity On Hand	Unit Cost	Inventory Value
MXP2_ITEM	SPW	Finished Good	Lot							
			EACH	001						
			Size M		ColorYELL	00000016	10/13/2009	580.00	20.000	11,600.00
			Size S		ColorBLACK	00000016	10/13/2009	1,080.00	20.000	21,600.00
			Size S		ColorBLUE	00000016	10/13/2009	1,349.00	20.000	26,980.00
			Size S		ColorGREEN	00000016	10/13/2009	550.00	20.000	11,000.00
			Size S		ColorRED	00000016	10/13/2009	533.00	20.000	10,660.00
			Size S		ColorWHITE	00000016	10/13/2009	480.00	20.000	9,600.00
			Size S		ColorYELL	00000016	10/13/2009	5,478.00	20.000	109,560.00
			Size XL		ColorBLUE	00000024	5/31/2017	500.00	20.000	10,000.00
			Size XL		ColorRED			500.00	20.000	10,000.00
			Size XL		ColorWHITE			494.00	20.000	9,880.00
			Size XL		ColorYELL			500.00	20.000	10,000.00
			Size XXL		ColorGREEN	00000024	5/31/2017	500.00	20.000	10,000.00
			Size XXXL		ColorGREEN	00000024	5/31/2017	500.00	20.000	10,000.00
Item Warehouse 001 Total:								18,626.00	20.000	372,520.00
Item MXP2_ITEM Total:								30,576.00	20.000	611,520.00
MXP2_ITEM	SPW	Finished Good	Lot							
			EACH	000						
			Size L		ColorBLACK	00000022	5/31/2017	500.00	24.000	12,000.00
			Size L		ColorBLUE	00000022	5/31/2017	500.00	24.000	12,000.00
			Size L		ColorBLU LT	00000016	10/13/2009	95.00	24.000	2,280.00
			Size L		ColorGRAY	00000016	10/13/2009	38.00	24.000	912.00
			Size L		ColorGREEN		2/28/2014	508.00	24.000	12,192.00
			Size L		ColorGR_LT	00000016	10/13/2009	95.00	24.000	2,280.00
			Size L		ColorRED		2/28/2014	10.00	24.000	240.00



## Open Orders by Matrix Item Report

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

**Open Orders By Matrix Item Report (MXD) 7/17/2018**

Report Setting: STANDARD

Description: Open Orders By Matrix Item Report

Setting Options

Type: Public ☐ Print Report Settings ☐ Number of Copies: 1 ☐ Collated ☒

Default Report: ☒ Three Hole Punch: ☐

Print Report By: Item Code  Sort Report By: Item Code

Sales Order Types to Print

All Types: ☒ Standard Orders: ☒ Back Orders: ☒

Print Summary Report: ☐

Selections

Select Field	Operand	Value
Item Code	All	
Product Line	All	
Warehouse	All	
Salesperson	All	

Microsoft XPS Document Writer

Keep Window Open After  
Print ☐ Preview ☐

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

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

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

Open Orders By Matrix Item Report

For Order Types: All

MXD Company (MXD)

Item Code	Type	Description	Order Date	Promise Date	Customer Number/Name	White	Ordered	Shipped	Back Ordered	Net Order	Extension
BELT-WIDE	Back	WIDE BELT	7/17/2018	7/17/2018	02-CAPRI	Product Line: SPW	U/M: EACH	50.00	0.00	50.00	1,250.00
0000226	Back		7/17/2018	7/17/2018	Salesperson No: 02-0400 Ginny Hernandez	000					
0000226	Back		7/17/2018	7/17/2018	Salesperson No: 02-CAPRI	001	21.00	0.00	21.00	21.00	525.00
					Salesperson No: 02-0400 Ginny Hernandez						
						Item BELT-WIDE Total:	71.00	0.00	71.00	71.00	1,775.00
BLINKERS	Back	BLINKERS	8/27/2010	7/17/2018	01-AVNET	Product Line: SPW	U/M: EACH	3.00	0.00	3.00	0.00
0000207	Back		7/17/2018	7/17/2018	Salesperson No: 01-0200 Shelly Westland	002					
0000226	Back		7/17/2018	7/17/2018	Salesperson No: 02-CAPRI	001	35.00	0.00	35.00	35.00	2,800.00
					Salesperson No: 02-0400 Ginny Hernandez						
						Item BLINKERS Total:	38.00	0.00	38.00	38.00	2,800.00
BOOTS-EJM876	Back	TENNIS BOOTS	8/27/2010	7/17/2018	01-AVNET	Product Line: SPW	U/M: EACH	3.00	0.00	3.00	0.00
0000207	Back		7/17/2018	7/17/2018	Salesperson No: 01-0200 Shelly Westland	002					
0000226	Back		7/17/2018	7/17/2018	Salesperson No: 02-CAPRI	001	35.00	0.00	35.00	35.00	5,250.00
					Salesperson No: 02-0400 Ginny Hernandez						
						Item BOOTS-EJM876 Total:	38.00	0.00	38.00	38.00	5,250.00
CAP	Back	CAP	8/21/2009	8/21/2009	01-BRESLIN	Product Line: SPW	U/M: EACH	5.00	0.00	5.00	125.00
0000191	Back		8/27/2010	7/17/2018	Salesperson No: 01-0100 Jim Kentley	001					
0000207	Back		8/27/2010	7/17/2018	Salesperson No: 01-AVNET	002	3.00	0.00	3.00	3.00	0.00
					Salesperson No: 01-0200 Shelly Westland						
						Item CAP Total:	8.00	0.00	8.00	8.00	125.00
MXPJTEM	Back	Matrix Item	5/31/2017	01-ABF	Product Line: SPW	U/M: EACH	7.00	4.00	3.00	3.00	195.00
0000226	Back		7/17/2018	7/17/2018	Salesperson No: 01-0100 Jim Kentley	001					
0000229	Back		7/17/2018	7/17/2018	Salesperson No: 01-ABF	001	20.00	10.00	10.00	10.00	650.00
					Salesperson No: 01-0100 Jim Kentley						
0000234	Std	Size: XXL	7/17/2018	7/17/2018	01-ABF	4.00	2.00	0.00	0.00	2.00	130.00
		Size: L			Color: GREEN	1.00					
		Size: XL			Color: GRAY	1.00					
0000237	Std	Size: XL	7/17/2018	7/17/2018	01-ABF	4.00	4.00	0.00	0.00	4.00	260.00
		Size: L			Color: BLACK	4.00					
0000242	Back	Size: M	7/17/2018	7/17/2018	01-ABF	1.00	20.00	10.00	10.00	10.00	650.00
		Size: XL			Color: WHITE	1.00					
		Size: XL			Color: BLT	2.00					
		Size: XL			Color: GR	4.00					
		Size: XL			Color: GRAY	2.00					
		Size: XXL			Color: GREEN	1.00					
0000243	Std	Size: XXL	7/17/2018	7/17/2018	01-ABF	1.00	20.00	0.00	10.00	20.00	1,300.00
					Salesperson No: 01-0100 Jim Kentley						

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

For Order Types: All

MXD Company (MXD)

Item Code	Description	Prod:SPW	U/M: EACH	Ordered	Shipped	Back Ordered	Net Order	Item Total
BELT-WIDE	WIDE BELT	Prod:SPW	U/M: EACH	71.00	0.00	71.00	71.00	1,775.00
BLINKERS	BLINKERS	Prod:SPW	U/M: EACH	38.00	0.00	38.00	38.00	2,800.00
BOOTS-EJM876	TENNIS BOOTS	Prod:SPW	U/M: EACH	38.00	0.00	38.00	38.00	5,250.00
CAP	CAP	Prod:SPW	U/M: EACH	8.00	0.00	8.00	8.00	125.00
MXPJTEM	Matrix Item	Prod:SPW	U/M: EACH	73.00	24.00	33.00	49.00	3,185.00
MXP2JTEM	Matrix	Prod:SPW	U/M: EACH	65.00	50.00	15.00	15.00	1,200.00
T-SHIRT	T-SHIRT	Prod:SPW	U/M: EACH	3.00	0.00	3.00	3.00	0.00
				Report Total:	296.00	74.00	222.00	14,335.00

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).

**Open Orders By Matrix Lot Report (MXD) 7/17/2018**

Report Setting: STANDARD [Search Icon] [Save]

Description: Open Orders By Matrix Lot Report

Setting Options:

Type: Public [Dropdown] Print Report Settings: ☐ Number of Copies: 1 [Up/Down]

Default Report: ☒ Three Hole Punch: ☐ Collated: ☒

Print Report By: Item Code [Dropdown] Sort Report By: Item Code [Dropdown]

Sales Order Types to Print:

All Types: ☒ Standard Orders: ☒ Back Orders: ☒

Selections:

Select Field	Operand	Value
Item Code	All [Dropdown]	
Warehouse	All [Dropdown]	
Salesperson	All [Dropdown]	
Matrix Size	All [Dropdown]	
Matrix Color	All [Dropdown]	

Microsoft XPS Document Writer [Dropdown] Keep Window Open After: ☐ Print ☐ Preview ☐ [Print] [Preview] [Setup]

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

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

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

Open Orders By Matrix Lot Report

For Order Types: All

MXD Company (MXD)

Item Code/Description	Size	Color	Order No.	Type	Ord Date	Customer Number /Name	Salesperson No/Name	Whse	Quantity Ordered
MXD_ITEM Matrix Item	S	BLUE	0000243	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		2.00
								Size: S Color: BLUE Total:	2.00
M		WHITE	0000242	Back	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		1.00
								Size: M Color: WHITE Total:	1.00
M		BL_LT	0000243	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		2.00
								Size: M Color: BL_LT Total:	2.00
L		GREEN	0000234	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		1.00
								Size: L Color: GREEN Total:	1.00
L		BLACK	0000237	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		4.00
								Size: L Color: BLACK Total:	4.00
XL		BL_LT	0000242	Back	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		2.00
								Size: XL Color: BL_LT Total:	2.00
XL		GR_LT	0000242	Back	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		4.00
								Size: XL Color: GR_LT Total:	4.00
XL		GRAY	0000234	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		1.00
			0000242	Back	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		2.00
			0000243	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		2.00
								Size: XL Color: GRAY Total:	5.00
XXL		RED	0000243	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		2.00
								Size: XXL Color: RED Total:	2.00
XXL		GREEN	0000239	Back	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		4.00
			0000242	Back	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		1.00
			0000243	Std	7/17/2018	01-ABF American Business Futures	01-0100 Jim Kentley		2.00
								Size: XXL Color: GREEN Total:	7.00
								Item MXP_ITEM Total:	30.00
								Report Total:	30.00

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									
For Order Types: All									
MXD Company (MXD)									
Item Code/Description	Size	Color	Order No.	Type	Ord. Date	Customer Number /Name	Salesperson No/Name	Whse	Quantity Ordered
Item Code/Description	Size	Color	Order No.	Type	Ord. Date	Customer Number /Name	Salesperson No/Name	Whse	Quantity Ordered
MXP_ITEM Matrix Item							U/M: EACH		
S	0000243	BLUE	7/17/2018	Std	01-ABF American Business Futures	01-0100 Jim Kentley			2.00
									2.00
M	0000242	WHITE	7/17/2018	Back	01-ABF American Business Futures	01-0100 Jim Kentley			1.00
									1.00
M	0000243	BL_LT	7/17/2018	Std	01-ABF American Business Futures	01-0100 Jim Kentley			2.00
									2.00
L	0000234	GREEN	7/17/2018	Std	01-ABF American Business Futures	01-0100 Jim Kentley			1.00
									1.00
L	0000237	BLACK	7/17/2018	Std	01-ABF American Business Futures	01-0100 Jim Kentley			4.00
									4.00
XL	0000242	BL_LT	7/17/2018	Back	01-ABF American Business Futures	01-0100 Jim Kentley			2.00
									2.00
XL	0000242	GR_LT	7/17/2018	Back	01-ABF American Business Futures	01-0100 Jim Kentley			4.00
									4.00
XL	0000234	GRAY	7/17/2018	Std	01-ABF American Business Futures	01-0100 Jim Kentley			1.00
									2.00
									2.00
									5.00
XXL	0000243	RED	7/17/2018	Std	01-ABF American Business Futures	01-0100 Jim Kentley			2.00
									2.00
XXL	0000229	GREEN	7/17/2018	Back	01-ABF American Business Futures	01-0100 Jim Kentley			4.00
									1.00
									2.00
									7.00
									30.00
									30.00

## 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.

**Matrix Codes Invoice History Report (MXD) 7/17/2018**

Report Setting: STANDARD [Save]

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: ☐


Selections:

Select Field	Operand	Value
Matrix Size	All	
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 ☐ Print Preview Setup]

Here is an example of printout for summary report form:

Matrix Codes Invoice History Report



Main Report

MatrixCodes Invoice History Report

MXD Company (MXD)

Item Code/Description		Quantity
<b>BELT-WIDE WIDE BELT</b>		
Size: STD	Color: BLACK	29.00
Size: STD	Color: BLUE	17.00
Size: STD	Color: GREEN	5.00
Size: STD	Color: WHITE	3.00
<b>BLINKERS BLINKERS</b>		
Size: S	Color: WHITE	4.00
Size: S	Color: RED	1.00
Size: S	Color: BLUE	5.00
Size: M	Color: WHITE	4.00
Size: M	Color: YELL	2.00
Size: M	Color: BLUE	3.00
Size: M	Color: GREEN	2.00
Size: L	Color: WHITE	14.00
Size: L	Color: BLUE	7.00
Size: L	Color: GREEN	2.00
Size: L	Color: BLACK	5.00
Size: XL	Color: WHITE	3.00
Size: XL	Color: RED	4.00
Size: XL	Color: BLUE	1.00
<b>BOOTS-EJM876 TENNIS BOOTS</b>		
Size: 7	Color: BLUE	3.00
Size: 7½	Color: WHITE	8.00
Size: 7½	Color: GREEN	3.00
Size: 7½	Color: BLUE	8.00
Size: 8	Color: WHITE	8.00
Size: 8	Color: BLUE	8.00
Size: 8½	Color: GREEN	2.00
Size: 8½	Color: BLUE	5.00
<b>CAP CAP</b>		
Size: S	Color: WHITE	7.00
Size: S	Color: RED	8.00
Size: S	Color: GREEN	2.00
Size: S	Color: BLACK	1.00
Size: M	Color: WHITE	15.00
Size: M	Color: RED	10.00
Size: M	Color: BLUE	9.00

Current Page No.: 1

Total Page No.: 1+

Zoom Factor: 100%

Here is an example of printout for detail report form:

Matrix Codes Invoice History Report



## 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:

**Sales Order Printing**

MXD Company 0000247  
7/17/2018

0100  
01-ABF

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

John Quinn

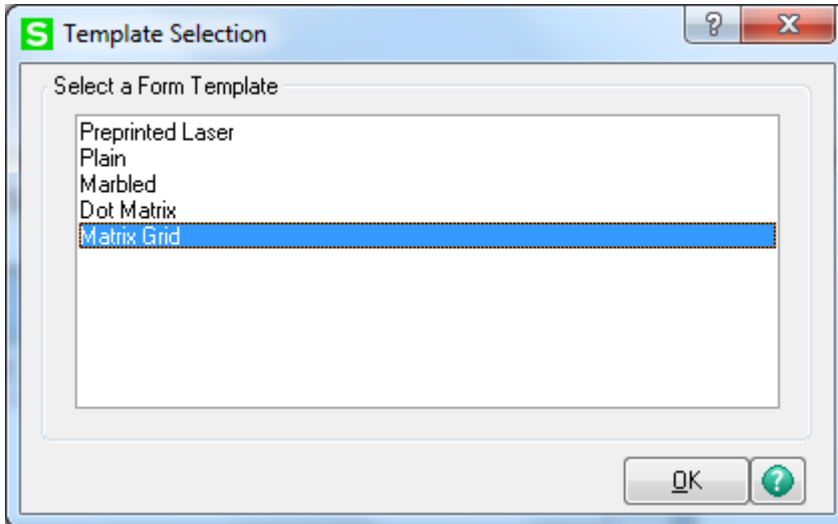
UPS BLUE Net 30 Days

Item Description	Unit	Price	Qty	Whse	Ext Price	Ext Price
SPWARE	EACH	2.00	0.00	0.00	250.000	500.00
SPORTSWARE KIT	EACH	5.00	0.00	0.00	25.000	125.00
CAP	EACH	7.00	0.00	0.00	80.000	560.00
CAP	EACH	5.00	0.00	0.00	65.000	325.00
Size: M						
Size: XL						
Color: GREEN						
Color: RED						
Color: GRAY						
Color: YELL						
Color: RED						
Color: GR_LT						

Current Page No.: 24 Total Page No.: 24 Zoom Factor: 90%


## 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.

**S Sales Order Printing (MXD) 7/17/2018**

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	All	
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 Printing**

24 / 24

**Main Report**

**Sales Order**

MOO Company  
 Order Number: 0002247  
 Order Date: 7/17/2018  
 Salesperson: 0100  
 Customer Number: 01-ABF

MOO Co.  
 American Business Futures  
 2131 N. 14th Street  
 Suite 100  
 Accounting Department  
 Milwaukee, WI 53206-1204  
 Confirm To:  
 John Quinn

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

Customer P.O.	Ship Via	P.O.D.	Terms
	UPS BLUE		Net 30 Days

Item Code	Unit	Ordered	Shipped	Back Order	Price	Amount
SPWARE	EACH	2.00	0.00	0.00	250.000	500.00
SPORTSWARE KIT						
MOXP_ITEM	EACH	7.00	0.00	0.00	80.000	560.00
Matrix						
			White: 000			
			White: 001			
	MEDIUM	SMALL	MEDIUM	Total		
YELLOW	1.00	0.00	0.00	1.00		
GRAY	0.00	4.00	0.00	4.00		
RED	0.00	0.00	2.00	2.00		
Total	1.00	4.00	2.00	7.00		
MOXP_ITEM	EACH	5.00	0.00	0.00	66.000	330.00
Matrix Item						
	EXTRA LK	LARGE	Total			
LIGHT GREEN	4.00	0.00	4.00			
RED	0.00	1.00	1.00			
Total	4.00	1.00	5.00			
Net Order:						1,385.00
Less Discount:						0.00
Freight:						0.00
Sales Tax:						0.00
<b>Order Total</b>						<b>1,385.00</b>

Current Page No.: 24      Total Page No.: 24      Zoom Factor: 75%

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

Invoice

MXD Company

Invoice Number: 01002134IN  
Invoice Date: 7/17/2018  
  
Order Number: 0000247  
Order Date: 7/17/2018  
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 Quinn

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

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

Item Code	Unit	Ordered	Shipped	Back Ordered	Price	Amount
MXP2_ITEM	EACH	7.00	5.00	2.00	80.000	400.00
Matix Whse: 001						
		SMALL	MEDIUM	Total		
YELLOW	Ordered	0.00	1.00	1.00		
	Shipped	0.00	0.00	0.00		
	Backord	0.00	0.00	0.00		
GRAY	Ordered	4.00	0.00	4.00		
	Shipped	4.00	0.00	4.00		
	Backord	0.00	0.00	0.00		
RED	Ordered	0.00	2.00	2.00		
	Shipped	0.00	1.00	1.00		
	Backord	0.00	1.00	1.00		
Total	Ordered	4.00	3.00	7.00		
	Shipped	4.00	1.00	5.00		
	Backord	0.00	1.00	1.00		
MXP_ITEM	EACH	5.00	4.00	1.00	65.000	260.00
Matrix Item Whse: 001						

Current Page No.: 1

Total Page No.: 2

Zoom Factor: 80%

INFORMATION INTEGRATION GROUP  
 457 PALM DRIVE  
 GLENDALE, CA 91202

877.475.4092  
 WWW.IIGSERVICES.COM

**S Invoice Printing**

Main Report

Page: 2

## Invoice

**MXD Company**

Invoice Number: 0100213-IN  
 Invoice Date: 7/17/2018

Order Number: 0000247  
 Order Date: 7/17/2018  
 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 Quinn

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

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

Item Code	Unit	Ordered	Shipped	Back Ordered	Price	Amount
	LARGE	EXTRA BX	Total			
LIGHT GREEN	Ordered	0.00	4.00	4.00		
	Shipped	0.00	4.00	4.00		
	Backord	0.00	0.00	0.00		
RED	Ordered	1.00	0.00	1.00		
	Shipped	0.00	0.00	0.00		
	Backord	0.00	0.00	0.00		
<b>Total</b>	Ordered	1.00	4.00	5.00		
	Shipped	0.00	4.00	4.00		
	Backord	0.00	0.00	0.00		

Net Invoice: 660.00  
 Less Discount: 0.00  
 Freight: 0.00  
 Sales Tax: 0.00  
**Invoice Total: 660.00**

Current Page No.: 2      Total Page No.: 2      Zoom Factor: 80%

Here is an example of printout for Packing List Printing:

**Packing List Printing**

Main Report

MXD Company

Shipping Number: 0100214  
Ship Date: 7/17/2018  
Order Number: 0000248  
Order Date: 7/17/2018  
Salesperson: 0100  
Customer Number: 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 Quinn

Number of Packages: 1

Customer P. O.

Ship VIA

F. O. B.

Terms

UPS BLUE

Net 30 Days

Item Number	Unit	Ordered	Shipped	Backordered
MXP2_ITEM	EACH	7.00	7.00	0.00

Warehouse:001

	MEDIUM	LARGE	Total
WHITE	Ordered 2.00 Shipped 2.00 Backord 0.00	3.00 3.00 0.00	5.00 5.00 0.00
RED	Ordered 0.00 Shipped 0.00 Backord 0.00	2.00 2.00 0.00	2.00 2.00 0.00
Total	Ordered 2.00 Shipped 2.00 Backord 0.00	5.00 5.00 0.00	7.00 7.00 0.00

MXP\_ITEM

EACH

Warehouse:001

	LARGE	EXTRA EX	Total
LIGHT GREEN	Ordered 0.00 Shipped 0.00 Backord 0.00	2.00 2.00 0.00	2.00 2.00 0.00
GRAY	Ordered 3.00 Shipped 3.00 Backord 0.00	0.00 0.00 0.00	3.00 3.00 0.00
Total	Ordered 3.00 Shipped 3.00 Backord 0.00	2.00 2.00 0.00	5.00 5.00 0.00

Current Page No.: 1

Total Page No.: 1

Zoom Factor: 75%

## Matrix Codes Sorting in Printings

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

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

Matrix Code Maintenance (MXD) 7/17/2018

Item Code: \*SYSTEM\_MATRIX\*  
 Description: \*SYSTEM MATRIX CODES\*  
 Matrix Code Category Description: Size

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

Accept Cancel Delete



## 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.

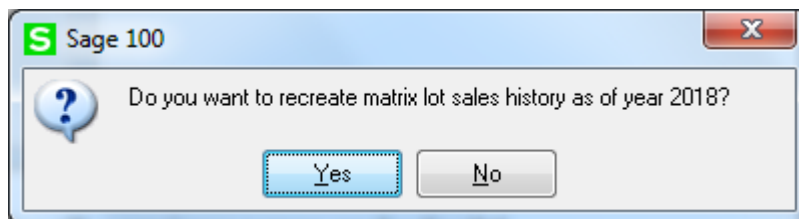


**Recreate Matrix Lot Sales History as of Year-** Enter the year to be used for recreating Matrix Lot Sales History.

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.

## Visual Integrator

The files listed below have been added, or changed, in the Data Dictionary by MXP enhancement for Visual Integrator purposes.

Tables	Fields
AR_InvoiceHistoryLotSerial	AR068_MXPInvoiceDate AR068_MXPQuantityOrdered AR068_MXPQuantityBackordered
BM068_MXPPreComponentsDist	All Fields
CI_Item	CI068_MXPMatrixItem
IM068_MXPItemCustHistoryByLot	
IM068_MXPMatrixCodesDetail	All Fields
IM068_MXPMatrixCodesHeader	All Fields
IM068_MXPMatrixOptions	
IM068_MXPPrepackCodeDetail	All Fields
IM068_MXPPrepackCodeHeader	All Fields
IM068_MXPUnivProdCode	All Fields
IM_ItemCost	IM068_MXPQuantityOnPO
SO068_MXPPackageTrackByItemLot	All Fields
SO_SalesOrderHeader	SO068_MXPAssignedOrder

## ODBC Dictionary

The files listed below have been added or changed in the ODBC Dictionaries by this enhancement for Crystal Reports purposes.

Tables	Fields
IM068_MXPMatrixCodesListingWrk	All Fields
IM068_MXPMatrixCommitReportWrk	All Fields
IM068_MXPMatrixHistWrk	All Fields
IM068_MXPMatrixOptListingWrk	All Fields
IM068_MXPMatrixStockStatusWrk	All Fields
IM_ValuationReportWrk	IM068_MXPMatrixItem
PO068_MXPOpenMatrixItemWrk	All Fields
SO068_MXPMatrixCodesInvHistWrk	All Fields
SO068_MXPOpenSOByItemWrk	All Fields
SO068_MXPOpenSOByMatrixLotWrk	All Fields
SO_InvoiceWrk	SO068_MXPOrderLineKey SO068_MXPMatrixItem SO068_MXPCat1CodeDesc

SO_PackingListWrk	SO068_MXPCat2CodeDesc
	SO068_MXPCat1CodeSort
	SO068_MXPCat2CodeSort
	SO068_MXPLotSerQuantityOrdered
	SO068_MXPLotSerQtyBackOrdered
	SO068_MXPOrderLineKey
	SO068_MXPMatrixItem
	SO068_MXPCat1CodeDesc
	SO068_MXPCat2CodeDesc
	SO068_MXPCat1CodeSort
SO_PickingSheetWrk	SO068_MXPCat2CodeSort
	SO068_MXPLotSerQuantityOrdered
	SO068_MXPLotSerQtyBackOrdered
	SO068_MXPMatrixItem
	SO068_MXPOrderLineKey
	SO068_MXPCat1CodeDesc
	SO068_MXPCat2CodeDesc
	SO068_MXPCat1CodeSort
	SO068_MXPCat2CodeSort
	SO068_MXPMatrixItem
SO_SalesOrderWrk	SO068_MXPCat1CodeDesc
	SO068_MXPCat2CodeDesc
	SO068_MXPCat1CodeSort
	SO068_MXPCat2CodeSort
	SO068_MXPCat2CodeSort