



## Manufacturing Routing

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### Overview

A Routing is the process that is to be taken when creating an item with the Manufacturing process. Each Routing has a defined number of sequences for the Manufacturing Order.

### Security

#### Routing Entry

- *Can Edit : True/False* - Determines if a user has permission to edit Routing Details.

#### Scripts

- *On Load Script* - Script that executes before a Routing is loaded.
- *Pre Save Script* - Script that executes before a Routing is saved.

#### Routing Search

#### Routing Details Search

#### Routing Detail User Fields

- *Allow Layout Customization: True/False* - Determines if a user has permission to edit the User Field layout.
- *Read Only: True/False* - Determines if a user has permission to edit User Fields.

1. Routing Mass Update
2. Routing Mass Add Details
3. Routing Details Mass Update
4. Routing Details Mass Delete
5. Routing Details Mass Update
6. Manufacturing Routing Lookup



### Routing Search Screen

The Routing Search is found on the ribbon menu across the top of the SalesPad window, on the Manufacturing tab. Here, the user can search for existing Routings by any part of a keyword in the Item Number, or by the Routing Name. Opening any of the Routings will open the Routing Details Entry Screen, as seen below.

Manufacturing BOM Entry    Manufacturing BOM Search    Routing Details Mass Update    Routing Mass Update  
 Manufacturing BOM Line Mass Update    Manufacturing Order Entry    Routing Details Search  
 Manufacturing BOM Mass Update    Manufacturing Order Search    Routing Entry    Routing Search

Manufacturing

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**Routing Search**  

Close    Search

Search By


Item Number: 100xlg  
 Routing Name:





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Search Results

Item Number	Routing Name	Routing Status	Primary	Revisi
<a href="#">100XLG</a>	100		<input type="checkbox"/>	
<a href="#">100XLG</a>	100XLG PRIMARY	Released	<input type="checkbox"/>	

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**100XLG : 100 : 100** 

Close    Save     Delete Routing     Delete Sequence     Previous Sequence     New Sequence


**Header Information**

Item Number: 100XLG ...  
 Routing Name: 100 ...

**Time And Costing**

Setup Time: 0  
 Setup Labor Code:  X  
 Labor Time: 0  
 Labor Code:  X  
 Number Of Employees/Crews: 0  
 Number Of Machines: 0  
 Machine Time: 0  
 Machine ID:  X  
 Move Time: 0  
 Queue Time: 0  
 Cycle Time: 0

**Sequence Information**

Routing Sequence: 100 ...  
 Description:  
 Work Center ID:  
 Vendor ID:  
 Work Center Op Code:  X  
 PO Offset Days: 0  
 WIP Output Per MO Start Qty: 0

**Scheduling Information**

Percentage Next Start: 0  
 Quantity Next Start: 0  
 Concurrent Sequence:  
 Next Run Sequence: ...  
☐ Last Sequence Scheduled For A Day

**Other**

☒ Auto-Back Flush Labor  
☐ QA Sequence  
☐ Auto-Back Flush Machine  
 Drawing Group:

**Run Time**

Time Per Piece: 0      Time Per Additional Piece: 0

### Routing Details Entry

From the Routing Details Entry Screen, users can modify, and delete existing Routing Sequences, and add new Routing Sequences.

Item Number: This is the inventory item that can use this routing.

Routing Name: This is a unique name for this routing. Multiple routings with different names can be made for the same Item.

**Routing Sequence:** This is the unique sequence in the routing. Sequences are consecutive, and are govern the workflow of the manufacturing process.

**Work Center ID:** This is the work center at which this sequence of the routing takes place.

**Vendor ID:** Displays the identifier of the vendor associated with an outsourced work center.

**Work Center Op Code:** Operation code for the sequence. Selecting an Op Code will default in some fields

**PO Release Offset Days:** The number of days the purchase order for outsourced services should be released before the vendor will need to begin working on the outsourced sequence.

**WIP Output Per MO Start Qty:** The number of items per finished item expected from this sequence.

**Auto-Back Flush Labor:** Labor costs for this sequence should be calculated using the standard routing times when the manufacturing order is closed or items from the manufacturing order are received.

**QA Sequence:** The sequence is part of a quality assurance program.

**Auto-Back Flush Machine:** Machine costs for this sequence should be calculated using standard routing times when a manufacturing order is closed or items from the manufacturing order are received.

**Drawing Group:** Displays the drawing group that includes any electronic file attached to the routing sequence.

**Setup Time:** The hours required to prepare the work area for this sequence.

**Setup Labor Code:** The labor code required of the person completing the setup tasks.

**Labor Time:** The hours required for an employee to complete this sequence for one item.

**Labor Code:** The labor code required of the person completing the sequence tasks.

**Move Time:** The hours required to move an item to the location for the next sequence.

**Queue Time:** The number of hours that items must wait before beginning this sequence.

**Cycle Time:** Number of hours required for each unit in this sequence.

**Percentage Next Start:** The percentage of the total items in a manufacturing order that needs to be complete before the next sequence can begin.

**Quantity Next Start:** The number of the total items in a manufacturing order that needs to be complete before the next sequence can begin.

**Concurrent Sequence:** A parallel sequence that can be run at the same time as this one.

**Next Run Sequence:** The sequence number of the next sequence to be completed after this

sequence. Used for concurrent sequencing.

Time Per Piece: The amount of time needed to produce one piece, including setup time.

Time Per Additional Piece: The amount of time needed to complete this sequence for the second and subsequent pieces.

### Routing Mass Update

The Routing Mass Update is found on the ribbon menu across the top of the SalesPad window, on the Manufacturing tab.

Here, the user can search for existing Routing and add a sequence to many routings at once.

Routing Mass Update

Close Search Add Details

Search By

Item Number:

Routing Name:

Search Options

☐ Selected Routings Only

Search Results

Item Number	Routing Name	Routing Status	Primary	Revision Level	Note Index
100XLG	100		<input type="checkbox"/>		0.00
100XLG	100XLG PRIMARY	Released	<input type="checkbox"/>		0.00
512 SDRAM	512 SDRAM	Released	<input checked="" type="checkbox"/>		0.00
A100	A100	Released	<input type="checkbox"/>		0.00
ARM	123		<input type="checkbox"/>		0.00
BA100G	BA PRIMARY	Released	<input checked="" type="checkbox"/>		0.00
BACK ASSEMBLY	BACK ASSEMBLY	Released	<input checked="" type="checkbox"/>		0.00
BARREL ASSEMBLY	BARREL ASSEMBLY	Released	<input checked="" type="checkbox"/>		0.00
BOM	BOM ASSEMBLY	Released	<input type="checkbox"/>	1	0.00
CBA100	CBA PRIMARY	Released	<input checked="" type="checkbox"/>		0.00
CHAIR	chair		<input type="checkbox"/>		0.00
CHAIR	CHAIR2	Released	<input type="checkbox"/>		0.00

If the **Selected Routings Only** checkbox is not checked when running the Add Details plugin, all lines that are manually selected in the search result will have the routing sequence added. It is possible to manually select/deselect more than one routing by holding down Ctrl and clicking a row.

### Routing Details Mass Update

The Routing Details Mass Update is found on the ribbon menu across the top of the SalesPad window, on the Manufacturing tab.

Routing Details Mass Update

Close Search Delete Details Modify Details

Search By

Item Number:

Routing Name:

Routing Seq Number:

Search Options

☐ Selected Routings Only

Search Results

Item Number	Routing Name	Routing Sequence	Routing Sequence Description	xboolean	WorkCenter ID	Modified Date
100XLG	100XLG PRIMARY	1	w	<input type="checkbox"/>	WAREHOUSE	4/12/2014
512 SDRAM	512 SDRAM	1234	3	<input checked="" type="checkbox"/>	WC1	6/5/2014
512 SDRAM	512 SDRAM	1334	321123	<input checked="" type="checkbox"/>	01-N	6/5/2014
512 SDRAM	512 SDRAM	213	213	<input checked="" type="checkbox"/>	01-N	6/5/2014
A100	A100	0100	3	<input checked="" type="checkbox"/>	WC1	6/5/2014
A100	A100	100	321123	<input checked="" type="checkbox"/>	01-N	6/5/2014

Here, the user can search for existing Routing and add a sequence to many routings at once.

If the Selected Routings Only checkbox is not checked when running the Routing Mass Delete Details plugin, all sequences in the search result will be deleted.

If the Selected Routings Only checkbox is checked when running the Routing Mass Delete Details plugin, all sequences that are manually selected in the search result will be deleted.

If the Selected Routings Only checkbox is not checked when running the Routing Mass Modify Details plugin, all sequences in the search result will be modified.

If the Selected Routings Only checkbox is checked when running the Routing Mass Modify Details plugin, all lines that are manually selected in the search result will be modified.