

For Sage 100 2014

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

www.iigservices.com



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

TRADEMARKS

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

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

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

Table of Contents

Installation Instructions and Cautions
Introduction
Setup Activity8Material Planning and Production Setup8Machine Code Maintenance11Plant Code Maintenance12Inventory Management Options13Warehouse Code Maintenance14Item Maintenance15Week Shifts Maintenance18Routing Maintenance18
Material Requirement Planning
Work Order Generation35Production Scheduling Board35Work Order Entry48Lot Number Generation48Production Generation50Auto Scheduling53Sales Order Entry55
Custom UDFs 61 Dispatch Data Entry 61 Production Number on the Dispatch 64 Dispatch Quick Printing 66
MRP Inquiry
Bill of Materials Inquiry 70
Production Release Status
Auto Generate Production for Component Bill
Outside Processing
Lot/Serial Distribution
Processing of BOM's with Percentage
Routing Steps on Work Order Printing 100

Work Order Printing	100
Import Routings from W/O Module	103

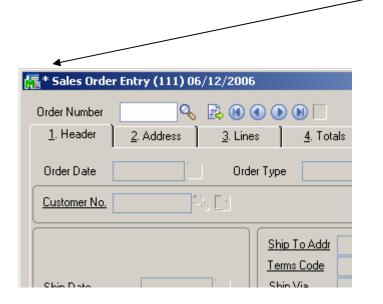
Installation Instructions and Cautions

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 E	nhancement R	egistration			? <u> </u>
Registered Customer IIG	- Glendale				
Registration Information Reseller Name					
Serial Number	1111111				
Customer Number	2222222222				
User Key	333333333333	33333333			
Product Key	55555 55	555 55555	55555 55555		
Enhancement	Level	Release Date	Serial Number	Unlocking Key	<u></u> K
IIG Enhancement	5.10		ААААААААААААААА	BBBBB	<u>U</u> ndo
Enhancement	Level	Release Date	Serial Number	Unlocking Key	
IIG Enhancement	5.10		ΑΔΑΔΑΔΑΔΑΔΑΔΑΔΑΔΑ	BBBBB	
Print Registration Form]				
					IIG ABC 4/7/2014

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.

-ODBC Security-	
Enable ODBC Security within Role Maintenance	

Role Maintenance

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

😎 Role Main	tenance (MPP) 3/10/	2015		
Role	ADMIN		4 6 61	Copy Role
Description	Admin			
<u>1</u> . Tasks	2. Security Events	3. Module Options	<u>4</u> . SData Securit	y <u>5</u> . ODBC Security
	Istom Office Istomer Relationship Man- evelopment Studio eneral Ledger ventory Management orary Master aterial Production Plannin Explorer View Inquiry Maintenance/Data Entr Miscellaneous Tasks Reports/Forms Setup Options	9		
		Accept	<u>C</u> ancel	

Introduction

Note: It is not recommended to have both the Material Production Planning and W/O Modules activated in the same company in order to avoid problems with I/M quantities committed.

The **Material Planning & Production Management** enhancement helps you to coordinate production to deliver what customers want accurately, efficiently and on a timely basis. Process takes into account BUF MAX values for items (stocking levels); and items that are produced to meet demand for existing sales orders

It also gives you full visibility into the process, with the ability to quickly adjust production as requirements change.

This enhancement provides the user with the following options:

Calculation of requirements for finished goods, WIP and purchased products based on:

Material requirements to fulfill sales orders for an entered ship date Material requirements based on stocking levels entered (min/max) Showing the raw material requirements for all BOM levels Taking into account existing SO, PO and WO transactions

Ability to manage production and purchasing functions by:

Ability to analyze calculated demand by drilling down to:

- Item Inquiry
- Bill of Material Inquiry
- Where Used Inquiry
- Vendor / Purchasing Activity

Ability to maintain the calculated quantity requirements for each item Auto creation of work orders to manufacture products from:

- Material Requirements Planning dashboard
- Sales Order Entry program for MTO items
- Scheduling Board based on MRP run's calculated requirements
- > Auto creation of purchase orders for products based on:

Demand based on existing transactions and inventory positions for purchased products

Demand calculated for components (all BOM component levels)

- Auto scheduling of work orders based on item's priority code and machine/mold preference entered
- Creation of production tasks (Work Order) based on routings linked to items
- Material requirement check based on work orders scheduled for the next x days

Setup Activity

Material Planning and Production Setup

Select the **WO Due date from SO Line Promise Date** checkbox to have the **Due Date** on the header of the generated Work Order populated with respective Sales Order line Item Promised Date.

Select the **Dispatch Ending Date from SO Line Promise Date** checkbox to have the Ending Date on the Dispatch Header populated with respective Sales Order line Item Promise Date.

See Material Planning and Production Setup (MPP) 3/10/2	015 ? - 🗆 🗙
1. Main 2. Entry 3. Line Entry	
Enable Schedule Board	Automatically Increment Steps By 010
	Integrate with Payroll
	Include History in Payroll Batch
Generated Document Line Hours Rounding	Payroll Overtime Calculation 8 hours a day
Spent Hours Rounding None 💌	- Auto Load
Spent Hours Precision in Minutes	Machine from Work Order to Dispatches and Labors
Minimum Billed Time 0 💌	Dispatch Starting Date/Time from Scheduled First
-Contract Audit	First Labor Hours from Dispatch Dates/Times
Contract Changes to Track None	Allow Use of Overtime Calculation for Labor
Track Additions in Detail	Apply Dispatch Date/Time to Labor Lines None 🗾
	WO Due Date from SO line Promise Date 🔽
	Dispatch Ending Date from SO line Promise Date
-Job Cost Posting	
Default Account	
J/C Cost Code Segment for Machine Postings	ne 🔽
Manual	Accept Cancel 🖨

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

On the **Entry** tab it is necessary to specify the **Work Order Type** and the **Default W.O Customer**.

The customer entered here is loaded as the customer number for the work orders generated. The actual customer number is loaded for work orders generated from the sales order entry program.

Work Order Type – is the default Work order type for the generated work orders. The WO type is used if there is no WO type selected for the Routing step.

See Material Planning and Production Setup (MPP) 3/11/20	015 ? _ X
1. Main 2. Entry 3. Line Entry	
Time entry drop box in Dispatch Data Entry 15 • Use Sort File in Quick Dispatch	Receiving Cost Write Back for Standard Cost Average Cost FIFO/LIFO Lot/Serial
Next Automatic Work Order Number 0000238 Next Automatic Contract Number 00000003 Next Automatic Template Contract Number 00000001 Default Values 00000001 Work Order Type M Dispatch Status (Quick Entry) O Close Dispatches into the Sales Order	Present Sales Kit as a Set of Regular Items Item Contract Instead Of Order Contract Retain Work Order History Allow Quote Hours in Work Order PM Work Order Generate Based On W.O. Close Date Commit Quantity During MFG Dispatch Generation Default W.O. Customer 01-SHEPARD
Dispatch Status (Released to Prod.) R Q Released to Pr	Lot/Serial Distribution in Dispatch Data Entry Enable Lot/Serial Distribution
Don't prompt if machine is not setup with the required skill set Don't prompt if machine is busy during the scheduled time	Require Lines to be Fully Distributed
Manual	Accept Cancel

The **Dispatch Status (Released to Prod)** field is intended for specifying the status of the Dispatches released to Production.

Enable Lot/Serial Distribution -Select this check box to enable the distribution of lot and serial numbers in the **Dispatch Data Entry**. If this check box is selected, you can distribute and commit quantities for lot or serial items using the Lot/Serial Number Distribution window.

This check box cannot be cleared if Dispatch Entry distributions already exist. The following message appears when trying to clear the checkbox:

see Sage	2 100 ERP	×
(į)	You cannot clear the Enable Lot/Serial Distribution check box while tiers are distributed in Dispatch Data Entry.	

Require Lines to be Fully Distributed - Select this check box to require the data entry lines for lot or serial items to be fully distributed in Dispatch Data Entry. Clear this check box if you do not want to require to fully distribute the data entry lines for lot or serial items in Dispatch Data Entry. If this check box is cleared, all lot or serial line items can be partially distributed. This field is available only if the **Enable Lot/Serial Distribution** check box is selected.

Refer to Lot/Serial Distribution section for details.

Lines Tab

OP Warehouse field added on the Line Entry tab of **Material Planning and Production Setup** screen allows specifying the Warehouse Code for outside processing. If there is no **OP Warehouse** selected for an Item in the Item Maintenance the Outside Processing warehouse code specified here will be used. Refer to <u>Outside Processing</u> part for detail.

🔓 Material Planning and	Production Setup (MPP)	3/11/2	2015 🤗 🗕	
<u>1</u> . Main <u>2</u> . Ent	ry <u>3</u> . Line Entry			
	000 11-000-000	Q Q	Middle Machine Code Lowest Machine Code Sales Account Priority 1. MachineCode ImachineCode	
Job Code Size Seg 1 3	22-000-000 Seg 2 3 Seg 3 3	Q	2. Labor Code 4. Nature of W.O. 5. Work Order Type	
Labor Billing Presentation Sales Account COGS Account	Special Item 111-00-00 205-00-00] Mis	scellaneous Item Q Other Receivables Q Notes payable	3
Product Line Order In Item No	Machine Code	-	Bypass Cost G/L Postings For Labor Items Calculate Taxes on Labor Based on None	
Manual			Accept Cancel	Ð

Machine Code Maintenance

The **Machine Code Maintenance** program is used to setup machines with respective mold types they can handle. The Machine Codes setup here are available in the Dispatch Board used to generate Work Orders.

During Work Order generation the program validates the Machine Code/Mold type to match the Mold type set on the Item.

🔓 Machine Code I	Maintenance (MPP) 3/11/2015	
Machine Code Machine Name ABV Name	M001 - I I I I I I I I I I I I I I I I I I	Molds
Labor Cost Plant Code	.00 UNION 🔍 Union city	Active 🔽
		<u>Cancel</u> <u>D</u> elete

Enter new **Machine Code** to add in the system or select an existing one to make changes if necessary; e.g. change the Plant Code, Labor Cost etc.

Press the **Molds** button to assign the mold type to current machine.

The Lookup button lists all Machine codes setup in the system:

s	ዋ Machine Code	List				
	Machine Code	Machine Name Machine A1	ABV Name			
	M001 M002 M1	Machine #1 Machine #2 MATK204-Auto	M1 M2 204 Auto			
	Search Machir Filters	ne Code 📃 💌	Begins with			<u> </u>
(C <u>u</u> stom			<u>S</u> elect	Cancel 5	
F	Found 4 records					.::

Plant Code Maintenance

The **Plant Code Maintenance** program is used to setup Plant Codes and assign the Default Machine Code to the Plant Code.

🔓 Plant Mainte	nance (MPP) 3/11/2015	? _ 🗆 🗙
Plant Code	UNION 🗁 🖬 🖉 🕨 🕅	
Description	Union city	
Default Machin	ne Code M001 🔍 Machine #1 M1	
	<u>Accept</u> <u>Cancel</u> <u>D</u> ela	te 🔒 🕜

The Lookup button next to the Plant Code field lists the Plant codes setup in the system.

sa	₽Plant Code	List				
	Plant Code 1 PL1 UNION	Description South West Plant 1 Union city		Machine Code M1 A1 M001	Name MATK204-Auto 204 Auto Machine A1 Machine #1 M1	
	Search Plan Filters Custom	nt Code	Begins with		<u>S</u> elect <u>C</u> ancel	Eind
F	ound 3 records					:

Inventory Management Options

The **MRP Warehouse Code** has been added on the Main tab of the **Inventory Management Options** to allow setting the warehouse code to be used as the warehouse for transactions generated if **Calculate Quantity to Produce** (MRP run) program is processed at the item level (not at warehouse level).

Inventory Management Options (MPP) 3/11/2015	
1. Main 2. Additional 3. Entry 4. Printing	
Require Multiple Warehouses Image: Constraint of the second sec	Inventory Period Base Inventory Periods On Calendar Months Current Calendar Year 2014 Current Period 03
Segment Substitution G/L Segment for Whse Postings Location	Enable Warranty Tracking
Track Warehouse Transfers as Issues	General Ledger
	Accept Cancel 🖶 🕢

Warehouse Code Maintenance

The **Include In MRP** checkbox has been added on the **Warehouse Code Maintenance** to allow indicating the Warehouse(s) to be included in MRP run when calculating demand for items at the item level.

🔓 Warehouse Cod	e Maintenance (MPP) 3/11/2015	? _ 🗆 🗙
Warehouse Code Description	MRP - I I I I I I I I I I I I I I I I I I	
Name		
Address	Ø	
ZIP Code		
City	State	
Country	Q	
Telephone	Ext	
Fax		
E-mail Address		
Contact		
Include In MRP		
Post to Location	Q	
	<u>Accept</u> <u>Cancel</u>	lete 🔒 🕜

Item Maintenance

The **Planning Code**, **MFG Priority Code** and **MFG Code** fields have been added on the main tab of the Item Maintenance.

Planning Code field is an informational field, which supports up to 5 alphanumeric characters and is used as selection field in the Calculate **Items Quantity To Produce** program.

🔓 Item Mainten	ance (MPP) 3/11/2015
Item Code BELC Description HON	25
<u>1</u> . Main	2. Additional <u>3</u> . Quantity <u>4</u> . History <u>5</u> . Transactions <u>6</u> . Orders <u>7</u> . Cost Detail
Product Line Product Type Valuation Procurement	WF&A WORKSTATION FURN & ACCESS Finished Good Weight FIFO Volume Make Inventory Cycle Unit of Measure Standard EACH & No. of EACH 1 Sales EACH & No. of EACH 1 OP Warehouse OP Control of EACH 1 Dented Standard Dented Standard S
Price Code Default Whse Planning Code Sales Retail Price Standard Price Last Sold	STD STANDARD QUANTITY PRIC Primary Vendor 01 AIRWAY Airway Property 000 CENTRAL WAREHOUSE Warranty Code Q 001 MFG Priority Code 1 MFG Code Made to Stock Item Molds Machine 001 MFG Priority Code 1 MFG Code Made to Order ast Costs 131.000 Standard Cost Made to Stock tem 82.500 131.000 Average Cost 82.500 Allocated .000 131.000 Item Receipt 3/5/2013 Total 82.500
	Inipition On Hand On PO On SO On Bk Ord Committed On WO Reg for WO Av RAL 5.00 25.00 200.00 .00 200.00 153.00 .00 WA .00 124.00 272.00 .00 272.00 .00 .00 .00

MFG Priority Code– is used to define MFG sort for the item. Items are loaded into the MRP grid sorted by the manufacturing priority code entered for each item.

MFG Code – is used to define material planning groups to manage purchasing, production and scheduling processes. The following options are available:

- Made to Order
- Made to Stock

Mold and machine information is setup for each Item in the **Item Molds Machine** grid opened through the **Item Molds Machine** hyperlink button. The information entered here is required for work order generation and auto-scheduling functions.

s	9ª Item I	Molds Machine	e (MPP) 3/1	1/2015							
	Item Code BEL25 HON 4 DRAWER LETTER FLE W/O LK										
		Quick Row	1 💋		2						
	Mold Number Modified Pr		Prefer Code	Machine Code	Qty Produced Per Hour	Queue Time					
	1	002		1	моо2 🔍	5.00					
	2	001		2	M001	.00	Mold Info				
	3					.00	.00				
L											
						<u>Accept</u>	Cancel Delete				

Multiple Items can be linked to the same Mold Number. Press the Mold Info button:

ब्ख्य Mold Inf	io (MPP) 3/11/	2015			
Item Code	BEL25			Mold Num	ber 002
Multiple Ite	ms 🔽 S	Slave	Bin L	ocation	
Comment					
Show All					
	Work Order No.		Item Code		
				Accept	Cancel

The **Mold Info** screen is opened with current Item and Mold number selected. Select the **Multiple Items** checkbox to indicate multiple Items can be assigned to current Mold number. If the selected item is not flagged as **Slave** it is considered to be the master Item. In this case when assigning another Item to current Mold number the **Slave** checkbox will be automatically set upon checking the Multiple Items checkbox:

sag	Mold In	fo (I	MPP) 3/1	1/2015			
1	ltem Code	•	BEL25			Mold N	umber 002
1	Multiple Items 🔽 SI		Slave		Bin Location		
1	Comment						A V
	Show Al)					
		Wo	rk Order N	lo.	ltem C	Code	
	1	1 0000237 2 0000240		BEL25			
	2			BEL25			
							ept <u>C</u> ancel

The Multiple Items flag (indicating that this mold is used by more than one item) impacts quantity calculation in the Calculate Quantity to Produce/Purchase program. Refer to <u>Processing Master/Slave Items</u> for details.

Week Shifts Maintenance

The **Shift Maintenance** program added under the **Material Planning and Production Management** Setup menu is used to setup shift schedules by week days.

sag	₽ Week	Shifts M	aintenance (M	IPP) 3/17/201	5							
	Week Day Monday 🗾 📢 🍕 🕨 🕅											
ſ		<u>Q</u> uick R	ow 3 🖉	9	2	. C (=	.					
		Shift	Start Time	End Time								
	1	1	09:00 AM	12:30 PM								
	2	2	01:00 PM	05:30 PM								
	3	3	06:00 PM	11:00 PM								
	4											
					Accept	Cancel	Delete					

Routing Maintenance

Routing Maintenance is a program that allows setup of steps to be used when generating Work Orders for Bill Items.

The term "Routing" is used in this case to describe the total set of steps, of any kind, taken to complete a dispatch or Work Order.

scription Equipment / AC MFG										
									Steps b	by Dispateł
										- 5
	Step No.	Description	Req. Hours	Gen. W.O.	W.O.Type	Nature Of W.O.	Mfg	Labor Code	Machine	tep No., Alt
1	0010	Pull Product	3.00	7	S					
2	0030	Assemble Case / Enclosure	5.00	4	М	ASSEMBLY				
3	0050	Install Motor / Pump	4.00	4	М	INSTALL				
4	0070	Install Temp Control / Heat Pa	4.00	✓	м	INSTALL	V	LAB1	M1	
5			.00							

Enter the **Routing Number** that represents the series of steps to be performed in completing a repair, installation or manufacturing.

Enter the **Description** (effectively, the name) of the routing in this field. You may use up to thirty characters for the description.

Enter the number of the step you wish to add or maintain in the **Step Number** field. Use the **Next Number** icon to accept the next automatically incremented step number.

If the **Step Number** represented by the next incremented value already exists, then the difference between the current step number and the step represented by the multiple will be divided by two.

If you are entering the first step number for a new routing, clicking the **Next Number** icon will insert **Step Number 0000** automatically.

Enter the **Step Description**. You may use as many characters as you wish to describe each step in the routing. The **Step Text Maintenance** window will be opened allowing the user to enter extended description.

Enter the **Required Hours** planned to complete this step.

									Steps	by Dispatch
									[] 🖗	₩ ₽,
	Step No.	Description	Reg. Hours	Gen. W.O.	W.O.Type	Nature Of W.O.	Mfg	Labor Code	Machine	
1	0010	Pull Product	3.00	4	s 🔍					
2	0030	Assemble Case / Enclosure	5.00	4	М	ASSEMBLY				
3	0050	Install Motor / Pump	4.00	✓	м	INSTALL				
4	0070	Install Temp Control / Heat Pa	4.00	✓	м	INSTALL	\checkmark	LAB1	M1	
5			.00							

Select the **Gen. W.O** box to mark the step as a task, which can be dispatched when an item with this routing is sold or needs repairing.

If the **Generate W.O** box is checked, select a **W.O Type** describing the task. This will be transferred automatically to the generated Work order, and can be used for assigning a machine with the molds appropriate for completing the task.

If the **Generate W.O** box is checked, enter a **Nature of W.O** describing the task. You can click the **Lookup** button and select it from the list, which changes based on the **W.O Type**. This will be transferred automatically to the generated Work Order

The **Mfg** (**Manufacturing**) check box is available only for Steps with the **Generate W.O** option selected.

If the **Mfg** box is selected for a **Step**, the **Labor Code** and **Machine Code** fields become visible enabling selection for that Step.

For **Manufacturing** Step, Dispatch with Labor Charge line will be generated when generating **W.O** using the specified **Labor Code** and **Machine**.

The **Steps by Dispatch** option allows for setup of routings for which a single Work Order will be generated with respective Dispatches for all steps of Routing. This option is available only for newly created Routing Numbers.

sa	Routin	g Mainter	iance (M	PP) 4/3/2015							<u>- 🗆 ×</u>
	Routing N	Number M	FGROUT	ING	<u> </u>					Сор	y <u>f</u> rom
	Descriptio	on M	FG Routin								
	W.O. Ta:	sk Type	_ Q _ N	ature of W.O.	Q	W.O. Description				Steps by Di	ispatch 🔽
										B	-
		Step No.	Mfg	Labor Code	Machine		 				
	1										
l											
								Accept	<u>C</u> ancel	<u>D</u> elete	

Upon selecting the **Steps by dispatch** checkbox the Routing Maintenance screen changes allowing to setup steps for a W.O Task Type.

see Routing Maint	tenance (M	1PP) 4/3/2015					<u>_ 0 ×</u>]
Routing Number	MFGROUT	ING	- 14 A				Copy from	
Description	MFG Routir	-						
W.O. Task Type	м 🔍 N	ature of W.O.	9	W.O. Description	Manufacturing W0		Steps by Dispatch 🔽	
							C 🖗 🛼 💀 🔹	
Step N	lo. Mfg	Labor Code	Machine					
1 0010		LAB1	M001					
2 0020		LAB2	M002 🔍					
3								
						t <u>C</u> ancel		

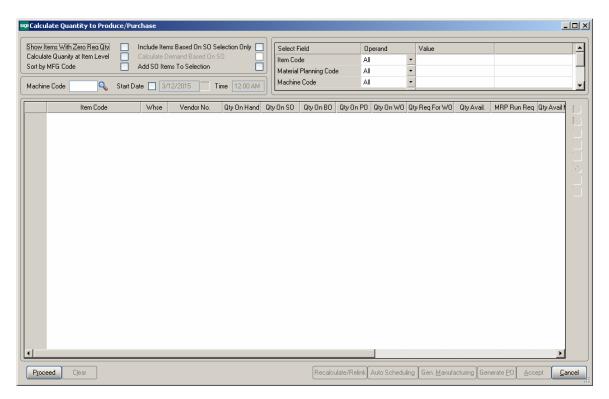
When Work order is generated for a Bill Item having such Routing Number assigned one Work Order with the specified W.O Type will be generated. For each of steps having the MFG flag set manufacturing dispatches will be generated. For the step not marked as MFG a Dispatch is generated only with Labor Code loaded in the **Labor Charge Data Entry.**

Material Requirement Planning

Calculate Quantity to Produce/Purchase

The **Calculate Quantity to Produce/Purchase** program added under the **Material Production Planning Main** menu is designated to simplify and speed up the work processes of purchasing and the production managers, enabling them to plan more effectively.

This program allows for processing the selected Items and calculating quantity requirements for each Item based on selected MRP run options. The program calculates also the component requirements for each Item by Warehouse.



MRP Run Processing Options:

Show Items With Zero Req. Qty- select this checkbox if you don't want to load the Items with zero quantity required into the material production planning grid.

Calculate Quantity for Item Level – select this checkbox if you want the demand to be calculated at the Item level (instead of warehouse level). Only the warehouses flagged as "Include in MRP" in the Warehouse Code Maintenance are included in the

calculation and the calculated quantities are shown under the Warehouse code selected as **MRP Warehouse** in the **Inventory Management Options.**

Include Items Based on SO Selection Only – select this checkbox to include in the demand calculation only the items of the selected Order(s) lines. If the ordered Item is a Bill the program uses the bill of materials structure to disassemble all components into the lowest level items and loads also those items.

Calculate Demand Based on SO – this option is enabled upon selecting the **Include Items Based on SO Selection Only** checkbox. If checked the demand is determined based on the open Sales Orders for the selected Ship Date.

Add SO Items to Selection – this checkbox is enabled only if the above two options are turned off. It allows for adding also Sales Orders' Items to the Items selected based on other selection criteria.

	ms With Zero Req Qty		ms Based On SO Sel		Select F	ield		Operand	Value			
	Quanity at Item Level)emand Based On SI		Item Co	de		Equal to	 BEL10 		BEL25VIP	
tby M	IFG Code	Add SU Ite	ms To Selection		Material	Planning Cod	e /	All	-			
chine	Code 🤍	Start Date 📃 3.	/17/2015 Ti	ne 12:00 AM	Machine	e Code	,	All	•			
	Item Code	Whse	Vendor No.	Qty On Hand	Qty On SO	Qty On BO	Qty On Pl	D Qty On WO	Qty Req For WO	Qty Avail.	MRP Run Req	Qty Av 🔺
	1001-HON-H252LK	000	01-CONT 🔍	59.00	.00	.00	.0	00. C	.00	59.00	182.00	
2	1001-HON-H252LK	001	01-CONT	.00	.00	.00	.0	00. 0	.00	.00	39,160.00	
3	1001-HON-H254	000	01-CONT	86.00	.00	.00	.0	00. 0	.00	86.00	52.00	
L I	1001-HON-H254	001	01-CONT	19.00	.00	.00	12,783.0	00. C	6376.00	6,426.00	12,888.00	
5	200-230	000	01-CONT	18.00	119.00	.00	143.0	00. 0	4088.00	4,046.00-	52.00	
5	200-230	001	01-CONT	52.00	.00	.00	7.0	6,376.00	4.00-	6,439.00	12,888.00	
'	230-182-Z	000	01-CONT	63.00-	.00	.00	84.0	00. 0	3066.00	3,045.00-	39.00	
3	230-182-Z	001	01-CONT	24.00	.00	.00	1,930.0	00. 0	12.00-	1,966.00	9,666.00	
1	2480-8-50	001	01-UNITED	165.00	.00	.00	.0	00. 0	.00	165.00	25,776.00	
0	6655	000	01-CONT	23.00	.00	.00	.0	00. 0	.00	23.00	728.00	
1	6655	001	01-CONT	5.00	3.00	.00	.0	00. 0	.00	2.00	156,640.00	
2	720-100	001	01-CONT	60.00-	15.00-	.00	1,040.0	00. 0	20.00-	1,015.00	14,870.00	
3	BEL10	001	01-CONT	7.00	3,123.00	.00	.0	0 142.00	.00	2,974.00-	.00	
4	BEL10-VIP	001	01-CONT	84.00	11.00	.00	212.0	0 1.00-	143.00	141.00	2,974.00	
5	BEL25	000	01-AIRWAY	5.00	200.00	.00	25.0	0 157.00	.00	13.00-	.00	
6	BEL25	001	01-AIRWAY	.00	272.00	.00	124.0	00. 0	.00	148.00-	.00	
7	BEL25-VIP	000	01-AIRWAY	7.00	8.00	.00	.0	0 2.00-	157.00	160.00-	13.00	
8	BEL25-VIP	001	01-AIRWAY	.00	.00	.00	122.0	00. 0	.00	122.00	248.00	
9	PLS-TRAY	000	01-CONT	259.00-	.00	.00	244.0	00. 1	450.00	464.99-	13.00	
0	PLS-TRAY	001	01-CONT	192.00	4.00-	.00	110.0	00. 0	143.00	163.00	3,222.00	
1	TIP	000	01-CONT	.00	.00	.00	4.0	3.00	157.00	152.97-	13.00	-

The **Machine Code** and **Start Date/Time** options are used for Manufacturing WO/Dispatch generation.

The following selection options may be applied:

- Item code
- Material Planning Code
- Machine Code
- Order Number

- Ship Date
- Warehouse

MRP columns:

- Item Code item number from inventory master file. The program lists all components (purchased or manufactured) to meet the selected items demand
- Whse the warehouse code for the information or the MRP Warehouse code setup in the I/M options if MRP run is at item level
- Vendor No vendor number for purchase items. The Make or Buy drop down in the inventory file is used to determine if a PO is to be generated for the item.
- **Qty On Hand** (**QOH**) quantity on hand for the warehouse
- Qty on SO (SOQ) sales order quantity represents quantity on sales orders for the entered date range or item's demand based on the Bypass Sales Order Selection MRP run option
- Qty on BO (BOQ) backorder quantity, quantity on back orders for the entered date range or item's demand based on the Bypass Sales Order Selection MRP run option
- **Qty on PO** (**POQ**) quantity on purchase orders
- **Qty on WO (WOQ)** quantity on existing work orders
- Qty Req for WO (QRWO) component quantity needed for planned work orders
- Qty Avail (QAVL) is calculated using the formula below: QAVL=QOH-SOQ-BOQ+POQ+WOQ-QRWO
- Demand New Requirements (DNR) this value represents the requirements on items entered on the bill of material line's tab for any BOM item with negative Qty Avail (QAVL) value. The Demand New Requirement quantity is calculated for component Items only, it doesn't make sense for Bill parent Item. It is calculated as the Bill Recommended Qty multiplied by the component's Quantity/Bill.
- **Qty Avail MRP Run (MRPQ)**, this value is calculated as follows:
- MRPQ = QAVL DNR
- **Reorder Method** MAX, ROP or EOQ.
- **Calc. Demand** is calculated based on the Reorder method as follows:
 - For Max Stock level Reorder method, if the Qty Available is below reorder, Recommended Qty=Buf Max Quantity –MRPQ (Qty Avail MRP Run)
 - For Reorder Point method if Available quantity is below the Reorder, Recommended Qty=Reorder Point Quantity – MRPQ (Qty Avail MRP Run)
 - For Economic Qty method, if Available is below reorder, Recommended Qty=Economic Ord. Quantity
- **Mold Type** this field is defaulted to the Mold Type setup for an Item in the Item Mold Maintenance and can be changed here. If there are several Molds setup, the Mold Type with the highest Prefer Code (for example from 001,

003, 005 the one with 001 will be loaded). The user is not allowed entering the Mold Type manually. It is necessary to select from the lookup list.

- **Machine Code** this field is defaulted to the Machine Code setup for an Item in the Item Mold Maintenance and can be changed here.
- **Include** select this checkbox to include the line in the Manufacturing WO generation

The following actions are available:

- Recalculate/Relink
- Auto Scheduling
- Generate Manufacturing WO
- Generate PO

Recalculate/Relink- this button is used for linking/relinking Master/Slave Items in case Multiple Items are being produced through the same Mold.

Pressing the **Auto Scheduling** button will generate and schedule work orders based on the machine/mold information entered for an Item in the **Calculate Quantity to Produce** grid taking into account Shifts setup in the <u>Week Shift Maintenance</u>. If the **Start Date** checkbox is selected with a Date/Time entered the Manufacturing Dispatch Starting Date/Time fields will be defaulted to that Date/Time if the Machine specified for an Item is available for that Date/Time and the Ending Date will be calculated taking into account the shifts setup in the **Week Shift Maintenance**.

Generate Manufacturing WO- press this button to generate work orders based on the demand calculated. The user may schedule the generated work Orders using the **Schedule Board** program.

Generate PO- press this button to generate Purchase Orders for Items with Buy Procurement type. Purchase orders are generated both for components of BOM items or items sold on sales order.

Here is an example of material requirement calculation for Bill Item BEL10 for warehouse code: "001".

Calculate Quanity at Item Level Calc Sort by MFG Code Add	stude Items Based On SO Selection Only	ode Il Planning Code	Operand Valu All • BEL1 All • All •		
Item Code	Whee Oty Avail MRP Run Reorder Method Reord.	Qty EOR Ma	x Qty Calc. Demand	Mold Number Machine Coc	le Include
P <u>roceed</u> Clear		Recalculate/Relin	k Auto Scheduling Ger	n. <u>M</u> anufacturing Generate <u>P</u> O	Accept Cancel

Press **Proceed** after making the necessary selections:

Item Code 1 1001-HON-H252LK 2 1001-HON-H252LK 3 200-230 4 230-182-Z 5 2480-8-50 6 6655 7 720-100 8 BEL10	Whee 001 001 001 001 001 001 001 001	5,470.00- 5,457.00- 6,956.00- 23,627.00-	Reorder Method Max Stock Lev • Max Stock Lev • Economic Qty • Economic Qty • Max Stock Lev •	Reord. Qty 5.00 10.00 .00	EOR 10.00 20.00 2,000.00	Max Qty 20.00 50.00	Calc. Demand 35,708.00 5,520.00	Mold Number	Machine Code	Include	
2 1001-HON-H254 3 200-230 4 230-182-2 5 2480-8-50 6 6655 7 720-100 8 BEL10	001 001 001 001 001 001	5,470.00- 5,457.00- 6,956.00- 23,627.00-	Max Stock Lev • Economic Qty • Economic Qty •	10.00	20.00	50.00	5,520.00				
3 200-230 4 230-182-Z 5 2480-8-50 6655 6655 7 720-100 8 BEL10	001 001 001 001	5,457.00- 6,956.00- 23,627.00-	Economic Qty 🝷 Economic Qty 🝷	.00							
4 230-182-Z 2480-8-50 6655 7 720-100 8 BEL10	001 001 001	6,956.00- 23,627.00-	Economic Qty 💌		2,000.00	00					
2480-8-50 6655 7 720-100 8 BEL10	001	23,627.00-		00		.00	7,457.00				
6655 7 720-100 8 BEL10	001		Max Stock Lev 💌	.00	1,000.00	.00	7,956.00				
7 720-100 BEL10		142,750.00-	indirectoric Eo	200.00	600.00	800.00	24,427.00				
BEL10	001		Max Stock Lev 💌	10.00	30.00	70.00	142,820.00				
		13,855.00-	Economic Qty 💌	.00	.00	.00	13,855.00				
	001	2,974.00-	Economic Qty 💌	.00	.00	.00	2,974.00	002 🔍	M002		
BEL10-VIP	001	2,833.00-	Max Stock Lev 💌	.00	.00	100.00	2,933.00				
0 PLS-TRAY	001		Economic Qty 💌	.00	.00	.00	2,811.00				
1 TIP-XI	001	2,828.98-	Max Stock Lev 💌	.00	.00	100.00	2,928.98				

The Bill Item is loaded in the grid with its components.

Select the Include checkbox. You can **Include** all lines by pressing the **Select All** button or just clicking in the box to select an individual line.

The drill down buttons on the right hand of the grid enables drill down to Item Inquiry, Bill Item Inquiry (enabled for Bill Items), Where used Inquiry (enabled for component Items), Item Vendor Maintenance, Item Molds Machine entry and MRP Inquiry.

After selecting the lines and pressing **Accept** the information is saved in a special table (SO068_XXXItemsQtyToProduce.M4T) used for generating Work Orders from Production Scheduling Dispatch Board.

If Bill Item has options, the BOM option components' quantities will take part in this calculation.

Here is the Work Order with respective Manufacturing Dispatch generated for Make Item# BEL10 by the **Gen Manufacturing WO** button:

😎 Work Order Ent	ry (MPP) 3/17/2015	IX
Work Order No.	0000245 🗇 🚺 👘 🚺 Install Temp Control / Heat Pa 🗦 🕫]
<u>1</u> . Header	2. Address 3. Dispatches User Useriig	٦.
Order Date 3/17	7/2015 Time 03:39 PM Order Type M 🔍 🎉 Manufacturing	
Customer No. 01	-SHEPARD 🔍 🛃 Shepard Motorworks	
W.O. Status Job Site Code Job Site Contact Nature of W.O. Prefer. Machine Item Number Lot/Serial No. Plant Code Schedule Date Due Date Cust PO	E Chtered Alan Shepard M002 Machine #2 M2 M002 Machine #2 M2 BEL10 BEL10 Sign Sign Sign Sign Sign Sign Sign Sign	
Priority Code	Production Lot/Batch Size	- 11
	Production Increment	븨
Quic <u>k</u> Print	Accept Cancel Delete	

The **Customer No** of the generated WO is the **Default W.O Customer** entered in the **Material Planning and Production Setup** window.

SOP Work Order Entry (MPP) 3/17/20	015	×
Work Order No. 0000245	🚍 14 🔹 🕨 🕅 Install Temp Contr	ol / Heat Pa 🛛 🕫 🛛 🕞 🛛 🖓
<u>1</u> . Header <u>2</u> . Address <u>3</u> . [Dispatches User	Useriig
	Machine Machine Name Status 1002 Machine #2 M2 Open	
0001 3/17/2015 M	1002 Machine #2 M2 Open	
Quic <u>k</u> Print		Accept <u>C</u> ancel <u>D</u> elete

Components are loaded from the BOM into the WO Dispatch Transaction.

)ispatch <u>1</u> . Hea		001 - [1 <u>2</u> . Lines		Install Temp Con	User Useri	ig					
Serial N	0.		Add	New 🗌 Incr	ement 🗌						
	Ite	em Code	Ordered	Unit Price	Extension	Comment 🔺					
2 BEL10-VIP Q 3 PLS-TRAY		/IP 🔍	2,974.00	117.900	350,634.60						
		2,974.00	121.500	361,341.00							
4			2,974.00	117.900	350,634.60						
5			5,948.00	.000	25.00						
6			.00	.000	.00						
•											
Des	cription	HON 4 DRAW	ER LETTER FLE	W/0 LK 🔺							
Ware	ehouse	001									
Unit Of	Measure	EACH									
Price	e Level			•							
	Total Amount 1,287,469.60										

Daily Production entry transactions are created for closed WO transactions.

Processing Master/Slave Items

The **Recalculate/Relink** action is intended for the Items linked to the same Mold Number.

After the lines are loaded in the grid you may press the **Recalculate/Relink** button to link the Items assigned to the same Mold Number and marked as **Multiple Items** (Master/Slave) in the **Mold Info** screen launched from the **Item Mold Machine** entry.

alcula ort by	tems With Zero Req ite Quanity at Item Le MFG Code ie Code	vel	Calculate De			Select Field tem Code Material Planning Machine Code) Code	Operand All All All	Value Value Value Value Value Va		٩,		
	Item Code	Whse	MRP Run Req	Qty Avail MRP Run	Reorder Method	Reord. Qty	EOR	Max Qty	Calc. Demand	Mold Number	Machine Code	Include 🔺	
1	1001-HON-H252LK	000	182.00	123.00-	Economic Qty 💌	30.00	80.00	200.00	203.00				Ì
2	1001-HON-H252LK	001	38,668.00	38,668.00-	Max Stock Lev 💌	5.00	10.00	20.00	38,688.00				
3	1001-HON-H254	000	52.00	34.00	Economic Qty 💌	50.00	100.00	300.00	100.00				
4	1001-HON-H254	001	12,724.00	6,298.00-	Max Stock Lev 💌	10.00	20.00	50.00	6,348.00				
5	200-230	000	52.00	4,098.00-	Economic Qty 💌	.00	.00	.00	4,098.00				
6	200-230	001	12,724.00	6,285.00-	Economic Qty 💌	.00	2,000.00	.00	8,285.00				
7	230-182-Z	000	39.00	3,084.00-	Economic Qty 💌	.00	.00	.00	3,084.00				
8	230-182-Z	001	9,543.00	7,577.00-	Economic Qty 💌	.00	1,000.00	.00	8,577.00				
9	2480-8-50	001	25,448.00	25,283.00-	Max Stock Lev 💌	200.00	600.00	800.00	26,083.00				
10	6655	000	728.00	705.00-	Economic Qty 💌	30.00	70.00	100.00	775.00				
11	6655	001	154,672.00	154,670.00-	Max Stock Lev 💌	10.00	30.00	70.00	154,740.00				
12	720-100	001	14,665.00	13,650.00-	Economic Qty 💌	.00	.00	.00	13,650.00				
13	BEL10	000	.00	3.00	Economic Qty 🝷	.00	.00	.00	173.00	002	M002		
14	BEL10	001	.00	.00.	Economic Qty 🝷	.00	.00	.00	248.00	002	M002		
15	BEL10-VIP	001	.00	2,833.00-	Max Stock Lev 💌	.00	.00	100.00	2,933.00				
16	BEL25	000	.00	13.00-	Economic Qty 💌	.00	.00	.00	173.00	002	M002		
17	BEL25	001	.00	148.00-	Max Stock Lev 🝷	.00	.00	100.00	248.00	002	M002		
18	BEL25-VIP	000	13.00	173.00-	Economic Qty 💌	.00	.00	.00	173.00	002	M002		
19	BEL25-VIP	001	248.00	126.00-	Economic Qty 🝷	.00	.00	.00	248.00	002	M002		-
20	PLS-TRAY	000	13.00	477.99-	Economic Qty 💌	.00	.00	.00	477.99				
21	PLS-TRAY	001	248.00	3,059.00-	Economic Qty 💌	.00	.00	.00	3,059.00				-

Upon pressing the **Recalculate/Relink** button the lines having the same Mold Number, Warehouse and marked as Master/Slave become highlighted in red. After making any change on one of the linked lines it is necessary to Recalculate/Relink the lines again, otherwise the following message will appear while performing other actions (e.g. Auto Scheduling).

see Sage	2 100 ERP	×
(į)	Recalculate/Relink is required as changes have been made on the lines once linked.	
	<u><u> </u></u>	

Upon pressing Recalculate/Relink button:

- The Include checkbox becomes selected for all linked lines if it is selected at least for one line.
- The Calc. Demand Quantity on all linked lines is updated with the greater one if it is changed on one of them so that the Calc. Demand Quantity becomes the same for all linked Items

ilcul rt bj	tems With Zero Req ate Quanity at Item Le MFG Code	vel	Calculate De Add SO Item	Based On SO Select nand Based On SO To Selection 7/2015 Time		Select Field Item Code Material Planning Machine Code) Code	Operand All All All	Value Value Value Value Value Value Value		٩,		
	Item Code	Whse	MRP Run Req	Qty Avail MRP Run	Reorder Method	Reord. Qty	EOR	Max Qty	Calc. Demand	Mold Number	Machine Code	Include _	1
1	1001-HON-H252LK	000	182.00	123.00-	Economic Qty 💌	30.00	80.00	200.00	203.00				
2	1001-HON-H252LK	001	38,668.00	38,668.00-	Max Stock Lev 🔻	5.00	10.00	20.00	38,688.00				L
3	1001-H0N-H254	000	52.00	34.00	Economic Qty 🔻	50.00	100.00	300.00	100.00				
4	1001-HON-H254	001	12,724.00	6,298.00-	Max Stock Lev 🔻	10.00	20.00	50.00	6,348.00				L
5	200-230	000	52.00	4,098.00-	Economic Qty 🝷	.00	.00	.00	4,098.00				L
6	200-230	001	12,724.00	6,285.00-	Economic Qty 💌	.00	2,000.00	.00	8,285.00				L
7	230-182-Z	000	39.00	3,084.00-	Economic Qty 💌	.00	.00	.00	3,084.00				
8	230-182-Z	001	9,543.00	7,577.00-	Economic Qty 💌	.00	1,000.00	.00	8,577.00				L
9	2480-8-50	001	25,448.00	25,283.00-	Max Stock Lev 🔻	200.00	600.00	800.00	26,083.00				
10	6655	000	728.00	705.00-	Economic Qty 🔻	30.00	70.00	100.00	775.00				
11	6655	001	154,672.00	154,670.00-	Max Stock Lev 🔻	10.00	30.00	70.00	154,740.00				
12	720-100	001	14,665.00	13,650.00-	Economic Qty 🔻	.00	.00	.00	13,650.00				
13	BEL10	000	.00	3.00	Economic Qty 👻	.00	.00	.00	173.00	002	M002	I	L
14	BEL10	001	.00	.00	Economic Qty 🝷	.00	.00	.00	248.00	002	M002		
15	BEL10-VIP	001	.00	2,833.00-	Max Stock Lev 🔻	.00	.00	100.00	2,933.00				
16	BEL25	000	.00	13.00-	Economic Qty 👻	.00	.00	.00	173.00	002	M002		
17	BEL25	001	.00	148.00-	Max Stock Lev -	.00	.00	100.00	248.00	002	M002		
18	BEL25-VIP	000	13.00	173.00-	Economic Qty 👻	.00	.00	.00	173.00	002	M002		
19	BEL25-VIP	001	248.00	126.00-	Economic Qty -	.00	.00	.00	248.00	002	M002		
20	PLS-TRAY	000	13.00	477.99-	Economic Qty -	.00	.00	.00	477.99				
21	PLS-TRAY	001	248.00		Economic Qty -	.00	.00	.00	3,059.00			Ξ,	
1						1							-

During Auto Scheduling a separate Work Order/Dispatch is generated for each linked line. The Dispatches are created with the same Starting-Ending Dates/Times as the same Mold is used for linked Items.

🔓 Dispatch Data Enl	tr y (MPP) 3/17/2015				<u> </u>
Work Order No 0000 Dispatch No. 000	0248 (14) 🚺 🌒 🕨	MFG Door		P	
	2. Lines		User Useriig		
Dispatch Date	3/18/2015	Dispatch Status	0 🔍 🔒 Open		
Starting Date Ending Date	3/18/2015 📰 3/24/2015 📰	Starting Time Ending Time	09:00 AM 💌 10:34 AM 💌	Commit Quantity	
Machine MFG Item Code	M002 🔍 Machine : BEL25		_ot/Serial No.	Mold Number 002	Q 3
Outside Processing	Receive	Quantity on ^v	w0 17	3.00	
Quic <u>k</u> Print	Manufactur	ing	Labor	Accept Cancel	Delete

After Work Orders are generated the Work Order numbers are shown in the Mold Info screen:

ब्ख्य Mold In	fo (MPP) 3/17,	/2015					<u>_ ×</u>	1
Item Code	BEL25				Mold Nu	mber [002	
Multiple It	ems 🔽	Slave		Bin Loc	ation			
Comment							A V	
Show Al								
	Work Order No.		Item C	ode				
1	0000237	BEL25						
2	0000240 0000248	BEL25 BEL25						
						ot	Cancel	

The **Show All** option allows for viewing the Work Order numbers generated for all the Items linked to current one.

ब्ख् <mark>र</mark> Mold In	fo (MPP) 3/1	7/2015					×
Item Code	BEL25			M	old Num	nber 002	
Multiple It	ems 🗹	Slave		Bin Locatio	n		
Comment						<u> </u>	
						-	
Show Al) 🔽						
	Work Order N	0.	ltem C	ode]
1	0000237	BEL25					
2	0000240	BEL25					
3	0000248	BEL25					
4	0000253	BEL10					
						Υ	5
					Accept	t <u>C</u> ancel	

Once the Tasks/Dispatches have been generated with a Mold Number already assigned, the following message will appear while pressing **Proceed** button on the **Calculate Quantity to Produce/Purchase** screen:

sage Sage	100 ERP	×
į)	Mold Number ''002'' is planned for the following Item/W0(s): BEL10_0000253 BEL25_0000237 BEL25_0000240 BEL25_0000248 W0 for item ''BEL10'' will be scheduled after completion of planned W0 for mold ''002''. Do you want to bypass creating W0(s) for mold ''002''?	
	Bypass Schedule Bypass All Schedule All	

Work Order Generation

Production Scheduling Board

Schedule Board provides the following functions:

- Ability to create work orders by:
- a. Manually dragging and dropping work orders into machine and date/time specific cells for items and quantity set by the MRP program. Program will validate that the item dragged can be run produced on the machine selected
- b. Auto create and schedule work orders based on the demand set by the MRP program
- Visibility over production schedule.
- a. Work order generated can be dragged and dropped from one machine to another or from one day / shift to another
- b. Views can be setup to display certain day shift or task by type, Mold Setup, Production, etc. using view selection grid
- Managing daily functions by right clicking on a work order

ntions for User - 'IIG'			
Options Type 001 💌 Description Shift1			
	Fields View		
Show on Startup Toolbar Fields Grid Lines Show History Blanks Show as Column Machine	View Date Range Current Week Number Of Days Before Current Date 10 Number Of Days After Current Date 10 Unassigned Machines		
	uplicate Show despite the filtering		
Color Use color for W.O. in Color Bars Sort of the same duplicate by W.O Number Use color for Dispatches in Color Bars Show Color Bars Over Text Show Items			
Dk Cancel IIG MPP 03/17/2015			

Select the Show Items checkbox to have the Items loaded in the Item list.

🚓 Options for User - 'IIG'		×
Options Type 001 💌 Descrip	tion Shift1	
Eilters	Fiel <u>d</u> s	⊻iew
W.O Field Value1	Show W.O. Number	🖃 🗹 😼
Customer No Field Value2	Show Division - Custo	mer Number 💌 📝 😵
Start Date - Field Value3	Show Start Date/Time	• 💽 🛃 😵
End Date - Field Value4	Show End Date/Time	🖃 🛃 😵
Dispatch No Field Value5	Show Dispatch Numb	er 💽 🛃 🝪
_ Time		Past Due W.O. 😼
Interval 4 hour 💌		
Open Time 8 hours		
Close Time 2 hour		
30 minutes		
20 minutes 10 minutes	<u>0</u> k	Cancel
None		
	IIG	MPP 03/17/2015

4 and 8 hours intervals added in the Interval drop down allows for showing Work Orders/Dispatches on the Board by 4/8 hours interval:

🎸 Schedule Board				
Options View About				
🛃 🔮 🍌 - 🔲 🎉 🦪 🔅 🚧 👹 🤰 Use Shift	t Hours From	▼ Shift ▼	Time	Auto Scheduling
	Machine #2 M2	Machine #2 M2 Machine #	#2 M2 Machine #2 M2	Machine #2 M2
Load 07:0 Item Code QOH Q-REC W 03/07/15 07:0	W.D 0000237 Customer No 01-S Start Date - 01/23/1 End Date - 03/11/15 Dispatch No 0001			
	DO PM			
07:0	00 AM			
	00 PM			-
	•			Þ
W.D. Number Description	Entry Date	/Time Scheduled Date/Time 15 15:40 03/17/2015 15:39	Status Color	W.O. Dispatch
SO Number W.O. Type W.O. Status	Customer Number Job	Site Code	Closed	
Setup	01-SHEPARD		Entered	
Nature of W.O. Pref. Machine Item Number	Lot/Serial Number	Plant Code Priority Code	Hold A/R	NO USE NO USE
p procession procession of the	I ng Date/Time Ending Date/1	l I Fime Dispatch Interval	Open Released to Pro	NO USE NO USE
			Updated Ropt.	NO USE NO USE
			IIG M	IPP 03/17/2015

Use Shift Hours From drop down allows the user to select a day (Monday, Tuesday, etc.) and specify the Shift for that day. Upon selecting a day with respective shift the starting/ending times are automatically loaded from Shift Maintenance. The Schedule Board is refreshed automatically to show only the W.O./Dispatches for current Shift.

🎸 Schedule Board								_ 🗆 ×
Options View About								
🕺 🜑 🍰 - 🔲 🎘 🥑 🕅 M	🖞 🚦 Usa	e Shift Hours	s From Monday	▼ Shift 1	•	Fime 09:00 AM	12:30 PM	Auto Scheduling
			iviachine #2 ivi2	iviachine #2 ivi2	iviachine #2	iviachine	#21012 101	achine #2 M2
	03/09/15	09:00 AM	W.O 0000237 Customer No 01-S Start Date - 01/23/1 End Date - 03/11/15 Dispatch No 0001					
	03/10/15	09:00 AM						
	03/11/15	09:00 AM		W.O 0000238 Customer No 01-S Start Date - 03/11/1 End Date - 03/11/1 Dispatch No	Start Date - 03	- 01-S Customer N 3/11/1 Start Date - /11/15 End Date -	o 01-S Cust 03/11/1 Start 03/11/15 End	. • 0000241 omer No. • 01-S Date • 03/11/1 Date • 03/11/15 atch No. •
	03/18/15	09:00 AM	W.O 0000242 Customer No 01-S Start Date - 03/17/1 End Date - 03/17/15 Dispatch No	W.O 0000243 Customer No 01-S Start Date - 03/17/1 End Date - 03/17/1 Dispatch No	Start Date - 03	- 01-S Customer N 3/17/1 Start Date - /17/15 End Date -	o 01-S Cust 03/17/1 Start 03/17/15 End	. • 0000246 omer No. • 01-S Date • 03/17/1 Date • 03/17/15 atch No. •
			•					Þ
W.D. Number Description 0000242 Pull Product	1		Entry Da	te/Time Schedu 015 15:40 03/17/	led Date/Time	- Status Color		0. Dispatch 🔺
, ,	.O. Status	D		b Site Code	2010 10.55	Closed	W.	0. Dispaten 🔺
	ntered		1-SHEPARD	<u>2 0 KC 0006</u>		Entered		
Nature of W.O. Pref. Machine Item Nu		Lot/	Serial Number	Plant Code	Priority Code	Hold A/R		
M002 BEL10						Open		JSE NO USE
Disp. No. Disp. Date Machine Code Disp	atch Status	Starting Date	/Time Ending Date	/Time Dispatch Ir	iterval	Released to Pro Updated Rcpt.		JSE NO USE JSE NO USE 💌
							i MPP	03/17/2015

If no Shift is selected the W.O./Dispatches are shown based on the Time Interval set in the Board Options:

Upon pressing **Load** button the Items processed through the **Calculate Quantity to Produce/Purchase** program and saved in the SO068_MPPItemsQtyToProduce.M4T table are loaded in the Item list at the left hand of the Board. It is necessary to have the **Include** checkbox selected for respective lines in the **Calculate Quantity to Produce/Purchase** program and accepted.

Work Order Generation can be processed also from Schedule Board. The Columns of the Board display dates and the Rows are Machine Codes setup in the system:

Production **Scheduling Board** can be used to manage the Production. Work Orders can be moved from one day/shift to next or from one machine to another.

Production Scheduling Board Views can be setup to display machines in a given Plan, Machine Type, or Work Orders for a specific shift. If needed a Board View can be setup to Show the hours of Operation on the Board.

Drag the Item and drop into a cell in the Production Scheduling Board.

≪Schedule Bo Options <u>V</u> iew										
💁 🖸 🔬 -	- 🔳 🎘	3 🕅	#9 👹	🗴 🥊 🛛 Use	e Shift Hours	From	▼ Shift	▼ Tim	e	Auto Scheduling
						Machine #2 M2	Machine #2 M2	Machine #2 M2	2 Machine #2 M2	Machine #2 M2
Item Code	QOH 59	Q-REC V	<u>L</u> oad		11:00 AM	W.O 0000237 Customer No 01-S Start Date - 01/23/ End Date - 03/11/1 Dispatch No 0001				
1001-HON 200-230 200-230 BEL10 BEL10 BEL10	0 18 52 270 7	6070 0 8285 0 333 0	01 00 01 00	03/09/15	03:00 PM		W.O 0000255 Customer No 01-S Start Date - 03/09/1 End Date - 03/09/1 Dispatch No	Start Date - 03/09		Start Date - 03/09/1
BEL10-VIP BEL25 BEL25 BEL25-VIP BEL25-VIP BEL25-VIP	84 5 0 7 0	2933 0 333 0 248 0 333 0	01 00 01 01 00		07:00 PM					
DEC23-VII	0	240 0		03/10/15	07:00 AM		W.O 0000260 Customer No 01-S Start Date - 03/10/1 End Date - 03/10/1 Dispatch No	Start Date - 03/10	W.O 0000262 I-S Customer No 01-5 D/1 Start Date - 03/10/1 Zispatch No	1
						•				Þ
W.O. Number 0000262 60 Number	Description Install Moto W.O. Type Manufacturi			.O. Status			ate/Time Schedu 2015 17:07 03/10/ ob Site Code	led Date/Time 2015 07:00	itatus Color osed ntered	W.O. Dispatch
Nature of W.O. Disp. No. Disp.	Pref. Ma M002 Date Mac	achine chine Code	Item Nu BEL10 Dispa		Lot/!	Serial Number /Time Ending Dat	Plant Code	nterval R	old A/R pen eleased to Pro pdated Ropt.	NO USE NO USE NO USE NO USE NO USE NO USE
									IIG N	MPP 03/17/2015

The following message appears for the user to confirm new Work Order generation for current Date and Machine code:

Schedule	Board 🔀
?	Do You want to create new W.O. for 03/09/15 07:00 PM Schedule Date
	Yes No

If the user selects **Yes** to generate Work Order, the Bill Options Selections screen is opened allowing the user to select Bill option.

sage	Option	Selection					? _ 🗆 ×
В	ill Numb	er BEL10	lte	m			
R	evision	000					
							- 🛃
		Option Category	Required	Option	Option Description		
	1	Counter Top		01	Marble - Dora Royal		
	2	Cabinet Finish		٩			
	3	Door Styles					
	4	Counter Top Finish					
	5	Tear Down & Hallaway					
]
						<u> </u>	Cancel

Work Order generation is done based on the Routing Number specified on the Bill Item Header.

see Bill of Materials Maintenance (MPP) 3/17/2015		
Bill Number BEL10 Revision 000 Bill Type Standard Description 1 Item]-2, 10, 14, 4, ▶ № 🗒 C <u>o</u> py From	Option <u>B</u> ills 💌
<u>1</u> . Header <u>2</u> . Lines		
Drawing Number	1 Counter Top	Required
Drawing Revision	2 Cabinet Finish	Required
Routing Number EQP_MFG	3 Door Styles	Required
Current Revision 000 Q	4 Counter Top Finish	Required
Date Last Used 8/27/2013	5 Tear Down & Hallaway	Required
Maximum Lot Size 0	6	Required
	7	Required
Print Components	8	Required
Bill Has Options 🔽	9	Required
Components By Percentage	L	
Production Lot/Batch Size 0		
Production Increment 0		
	Accept Cancel Del	
	<u>Accept</u> <u>Cancel</u> el	

The number of Work Orders being generated is based on the Routing steps. Work Orders are generated for all the steps having the Gen. W. O. option selected. Manufacturing Dispatch is automatically created for a Work Order generated for a Routing Step indicated as Mfg.

onpa	on E	quipment / AC MFG								
									Steps t	by Dispatch
									[] 🖓	R 🖗 🗸
	Step No.	Description	Req. Hours	Gen. W.O.	W.O.Type	Nature Of W.O.	Mfg	Labor Code	Machine	
1	0010	Pull Product	3.00	4	S					
2	0030	Assemble Case / Enclosure	5.00		м	ASSEMBLY				
3	0050	Install Motor / Pump	4.00	⊻	М	INSTALL				
4	0070	Install Temp Control / Heat Pa	4.00	⊻	М	INSTALL	∑	LAB1	M1 🔍	
5			.00							

Here is a Work Order with respective Manufacturing Dispatch generated for Bill Item: BEL10:

See Work Order Entry (MPP) 3/17/2015	IX
Work Order No. 0000267 🗁 📑 😭 🔌 🕨 M Install Temp Control / Heat Pa 🔛 Default	s
<u>1</u> . Header <u>2</u> . Address <u>3</u> . Dispatches User Useriig	
Order Date 3/17/2015 Time 05:23 PM Order Type M 🔍 💯 Manufacturing	
Customer No. 01-SHEPARD Shepard Motorworks	
W.O. Status E Chered Job Site Code Q Job Site Contact Alan Shepard Nature of W.O. Q Prefer. Machine M002 Model Number 002 Item Number BEL10 Lot/Serial No. Q Plant Code Q Schedule Date 3/10/2015 Time 07:00 AM Due Date 3/10/2015	
Quick Print Accept Cancel Delet	

Note: The Customer number is defaulted from Material Planning and Production Setup so you may have the Default WO Customer setup in the system.

🔓 Work Order Entry (MPP) 3	/17/2015		
Work Order No. 0000267	-), [_1] 14 🕢 🕨 🕅 Install	Temp Control / Heat Pa 🛛 📮	De <u>f</u> aults
<u>1</u> . Header <u>2</u> . Address	<u>3</u> . Dispatches	User Useriig	
Dispatch No. Dispatch Dai 0001 3/17/2015	e Machine Machine Name M002 Machine #2 M2	Status Open	🔄 📗
3/1//2013	MOUZ Machine #2 M2	Dispatching/Material Labor/	Fransaction
Quic <u>k</u> Print		Accept Cancel	Delete

Press the Dispatching button to open the Dispatch Data Entry:

See Dispatch Data Entry (MPP) 3/17/2015	<u>_ ×</u>
Work Order No 0000267 🗇 📢 🔌 🕨 Install Temp Control / Heat Pa 🤛 Dispatch No. 🛛 0001 🗇 🖂	
1. Header 2. Lines User User	
Dispatch Date 3/17/2015 🛅 Dispatch Status 🔍 🗣 Open	
Starting Date 3/10/2015 Starting Time 07:00 AM Commit Quantity Ending Date 3/17/2015 Ending Time 05:23 PM	
Machine M002 Q Machine #2 M2 Mold Number O MFG Item Code BEL10 Lot/Serial No. Image: Comparison of the serial No. Image: Comparison of the	02 Q
Quantity on WD 333.00 Outside Processing Send Out Receive	
Quick Print Manufacturing Labor Accept Cancel	Delete

Go to the Lines tab. The Bill Item is automatically exploded in the Dispatch Data Entry with the Component Item of Option Bill added in the lines.

)ispatch <u>1</u> . Hea		001 [[-]		Install Temp Cont	User User	ig
	🗞 🕅	- 10	Quick Row	1 💋		
Serial N	lo.		Add	New Bill Options,	Alt-B	
		em Code	Ordered	Unit Price	Extension	Comment 🔺
1	BEL10	۹,	333.00	75.600	25,174.80	
2	BEL10-V	/IP	333.00	117.900	39,260.70	
3	FINSTN	IGLAZE	5,994.00	.000	.00	
4	PLS-TR	AY	333.00	121.500	40,459.50	
5	SLBMD	R	15,984.00	.000	.00	
↓	TIP.VI		333.00	117 900	39 260 70	
Des	cription	Item				
War	ehouse	000				
Unit Of Measure EACH		EACH				
Price	e Level			-		
						Total Amount 144,260.70

Bill Options button in the Dispatch Data entry allows for viewing Bill Options:

sage	Option	Selection				? _ 🗆 🗙
В	ill Numb	er BEL10	I	:em		
R	levision	000				
ſ						=
-						
		Option Category	Require	d Option	Option Description	
	1	Counter Top		01	Marble - Dora Royal	
	2	Cabinet Finish		02	Stain / Glazed	
	3	Door Styles		03	Item	
	4	Counter Top Finish				
	5	Tear Down & Hallaway				
C						
						<u>o</u> k 🕜

If the **Commit Quantity During MFG Dispatch Generation** flag is set on the Entry tab of the **Material Planning and Production Setup**, the **Commit Quantity** checkbox will be automatically selected on the generated manufacturing Dispatch to commit the quantities on Work Order. Press the Item Inquiry button on the Dispatch line to see the quantities updated:

m Code BEL	10			, is ia ia	D DI 🗐 🖔	2		More
escription Item <u>1</u> . Main	2. Additional] <u>3</u> . Qua	intity 📔 💡	<u>4</u> . History	<u>5</u> . Transactio	ns <u>6</u> . Orde	rs <u>7</u> . C	ost Detail
<u>Product Line</u> Product Type Valuation Procurement	WF&A ¹	Ve Vol	N FURN & AC	CCESS 35 0.0000 B	–Unit of Measu Standard Purchases Sales <u>OP Warehou</u> :	EACH A	No. of EACH No. of EACH	1
Price Code Default Whse Planning Code Sales		NDARD QU ITRAL WAR MFG Priority		Warranty MFG Cod	Code 30 DA) days from shi <u>Item Molds I</u>	
Retail Price Standard Price Last Sold		4.000 [4.000 [Standard Average (Last Rece	Cost	32.750 1,952.185 8/27/201	I Item	ated	2,076.243 .000 2,076.243
Quantities Description CENTRAL EAST WA	On Hand 270.00 7.00	On PO .00 .00	On SO 560.00 3,123.00	On Bk Ord .00 .00	Committed 560.00 3,123.00	On W0∆ R 1,132.00 3,116.00	ieq for WO .00 .00	Available 290.00- 3,116.00-
•								Þ

The Quantity On WO for Bill Item reflects the Quantity Ordered in the manufacturing dispatch(es).

For component Items the Req for WO field is updated with respective quantity from manufacturing dispatch Quantity Ordered:

The Components defined for the Bill Item are loaded into the created Work Order. Users can change the quantity loaded if actual quantity used is different than component quantity entered in the Bill of Material program.

The actual Labor defined for the Bill item is loaded into the Created Work Order. Users can change the labor based on actual Labor hours for the production.

Work Order Entry

In addition to the **Production Scheduling Board**, the **Work Order Entry** program can also be accessed from the **Material Production Planning Main** menu for creation of Work Orders.

🔓 Work Order Entry (MPP) 3/17/2015	
Work Order No. 0000268	Defaults
<u>1</u> . Header <u>2</u> . Address <u>3</u> . Dispatches	User Useriig
Order Date 3/17/2015 Torder Time 05:34 PM	Order Type M Q 1/2/ Manufacturing
Customer No. 01-ABF	American Business Futures
W.O. Status E Q Entered Job Site Code 2 Q American Business Futures Job Site Contact John Quinn Q Nature of W.O. Q Machine #2 M2 Prefer. Machine M002 Q Machine #2 M2 Item Number BEL25 EL25 Lot/Serial No. Q France Q Plant Code Q Time 05:34 PM Due Date 3/17/2015 Time 05:34 PM	Mold Number 002 🔍 S Mold Number 002 Not the wide of t
Cust PO Priority Code	Production Lot/Batch Size 0 Production Increment 0
Quick Print	Accept <u>C</u> ancel <u>D</u> elete

Lot Number Generation

The **Mold Number** assigned to the work order is used when generating Lot/serial number for Make Item with Lot/Serial Valuation.

Pressing the **Lot/Serial Number** generation button added next to the Lot/Serial No field will generate the lot number based on the specified mold number and Julian date.

🔓 Work Order Ent	ry (MPP) 3/17/2015	<u>- 0 ×</u>
Work Order No. 0	000268 🗁 🖂 🕼 🖌 🕨	De <u>f</u> aults
<u>1</u> . Header	2. Address 3. Dispatches User Useriig	
Order Date 3/17	/2015 Crder Time 05:34 PM Order Type M 🔍 💯 Manufacturing	
Customer No. 01	ABF American Business Futures	
W.O. Status	E Q Entered	
Job Site Code Job Site Contact	2 American Business Futures John Quinn	
Nature of W.O.		
Prefer. Machine	M002 🔍 Machine #2 M2 Mold Number 002 🔍	
Item Number	2480-8-50 🔍 🖓 🕅 🚼 🗧 DESK FILE 8'' CAP 50	
Lot/Serial No.	2457099002	
Plant Code	Lot/Serial Number Generation	
Schedule Date	3/17/2015 Time 05:34 PM	
Due Date	3/17/2015 Time 05:34 PM	
Cust PO		
Priority Code		
Quic <u>k</u> Print	Accept Cancel	Delete

The generated lot number is saved in the work order transaction and is loaded into the Daily Production Entry transaction, created when manufacturing dispatch is closed.

Production Generation

B/M Production is automatically generated upon closing the Dispatch.

🔓 Dispatch Data En	ntry (MPP) 3/31/2015	
Work Order No 000 Dispatch No. 000	00258 1→, 14 4 🕨 🕅 MFG Door	₽
·	<u>2</u> . Lines User Useriig	<u>.</u>
Dispatch Date	3/17/2015 <u>Dispatch Status</u> O & A Ope Close Dispatch and Generate Production.	en
Starting Date Ending Date	3/9/2015 Image: Starting Time 05:06 PM ▼ 3/17/2015 Image: Starting Time 05:05 PM ▼	· · · ·
Machine MFG Item Code	M002 🔍 Machine #2 M2 BEL25 Lot/Serial No.	Mold Number 002 🔍
Outside Processin		333.00
Quic <u>k</u> Print	Manufacturing Labor	Accept Cancel Delete

The following screen is opened with the quantity on work order defaulted to Quantity Produced. The user is allowed to change the quantity produced. If the user reduces the Quantity Produced a prompt appears about leaving the work order open for the remaining quantity. In this case after generating Production a new dispatch will be created with "Open" status with Items Ordered Quantity equal to original **Qty Ordered – Quantity Produced.**

seperation Generation					
Quantity Produced	3.00				

If Batch processing is enabled for Production Entry the B/M Production Entry Batch screen is opened upon pressing Ok.

898 B/M Product	tion Entry	Batch			<u> </u>
Batch Number Comment Private Batch	00001	<u>]4, [1] 14 4</u>		<u>M</u> odify <u>R</u> enumber	⊻erify M <u>e</u> rge
Status A Entries	vailable 0	Created By Modified By			
			Accept	<u>C</u> ancel <u>D</u> e	elete 🕜 .::

Here is the Production Entry generated after the manufacturing Dispatch is closed:

Production Entry (MPP) 3/31/2015		
Production Number 00000041 Image: Im	atch 00001	De <u>f</u> aults
Production Date 3/31/2015		
Bill Number BEL25	HON 4 DRAWER LETTER FLE W/O	LK
Revision 000 Option Code Quantity 3.00 Unit of Measure EACH Effective Date 3/31/2015		
Parent Warehouse 000 CENTRAL WAREHOUSE Component Warehouse 000 CENTRAL WAREHOUSE Explode Sub-Assemblies Image: Central warehouse		
	Accept Cancel Delete	

roductio <u>1</u> . Hea	on Number 0000041 [], [_1] (4) 4 ader 2. Lines] S - Quick Row [Batch		Defaults		
Lot/Se	cial Number		Quantity/Bill	Extended Quantity	Commen		
1	BEL25-VIP	Q	Quantity/bill	3.00	Commen		
2	PLS-TRAY		1.00	3.00			
3	TIP		1.00	3.00			
4	/MISC_CHARGE1		5.00	15.00			
5			.00	.00			
Description HON 4 DRAWER LETTER FLE W/O LK Revision 000 Waterbauee 000							
Warehouse 000 Unit Of Measure EACH							

Actual Inventory and Labor information from the Work Order transaction is loaded into the Daily Production Entry transaction.

After the Production is updated the Bill Item Qty On Hand is updated with quantity produced and the Qty On WO and Qty Req For WO are released.

The generated **Production** number is displayed on the Header tab of the Dispatch Entry: The **Production** button allows for launching respective Production Entry.

🔓 Dispatch Data Entry (MPF	P) 3/31/2015	
Work Order No 0000258 Dispatch No. 0001	-/, 🛯 🗣 🕨 MFG Door 🤛	
<u>1. Header</u> <u>2</u> . Lines	User Useriig	
Dispatch Date 3/17/20	Dispatch Status C C Closed	
Starting Date 3/9/201 Ending Date 3/17/20		
Machine M002 MFG Item Code BEL25	Machine #2 M2 Mold Number 002 Lot/Serial No.	
Outside Processing Send Out Receive.		
Quic <u>k</u> Print	Manufacturing Labor	<u>o</u> k)

Auto Scheduling

When Work orders are generated from **Calculate Quantity To Produce** program by **Auto Scheduling** button, the work orders are auto-assigned to machine code specified on the **Calculate Quantity To Produce screen.**

The duration of dispatch is calculated based on the information entered for each mold/machine combination (**Recommended Qty/QtyProduced PerHour + Queue Time**) taking into account the Shifts setup in the Week Shift Maintenance. If there is Start Date specified on the **Calculate Quantity To Produce** screen that Date/Time is taken into account when checking for Machine availability.

See Dispatch Data Entry (MPP) 4/2/2015	<u> </u>
Work Order No 0000271 🗇 📢 🔌 🕨 MFG Door 🔛	
1. Header 2. Lines User Usering	
Dispatch Date 4/2/2015 Dispatch Status 0 🔍 🔒 Open	
Starting Date 4/2/2015 Starting Time 09:00 AM Commit Quantity Ending Date 4/4/2015 Ending Time 04:00 PM Commit Quantity	
Machine M002 Machine #2 M2 Mold Number 002 MFG Item Code BEL25 Lot/Serial No.	Q 34
Quantity on W0 5.00 Outside Processing Send Out Receive	
Quick Print Manufacturing Labor Accept Cancel	Delete

sa	Week Shifts Maintenance (MPP) 4/2/2015										
	Week Day Thursday 🗾 📢 🌒 🕨										
ſ		<u>Q</u> uick Ri	₩ ₩								
		Shift	Start Time	End Time							
	1	1	09:00 AM	01:00 PM							
	2	2	01:00 PM	06:00 PM							
	3										
			-								
L											
					Accept Cancel Delete						

Sales Order Entry

This enhancement provides also ability of creating Work Orders from the Sales Order Entry program.

<u>1</u> . Hea	ader <u>2</u> . Address	<u>3</u> . Lines	<u>4</u> . Totals	5. Credit Card	Jser Useriig	
	📎 H) H) - 😒 -	Quick Row	1	- 🗟 🗆	8	.
	Item Code	Ordered	Back Ordered	ork Order Generati Unit Price	on Extension	Comment
1	BEL10	2.00	.00	2,586.000	5,172.00	Control K
2		.00	.00	.000	.00	
Desc	cription Item					
	cription Item ehouse 001					
Ware						

Press the **Work Order Generation** button to generate Work Order(s) for the selected Bill Item based on the Routing entered for current Bill Item in the Bill of Materials Maintenance.

If the selected **Bill Number** has options, the Options Selection screen is displayed allowing the user to select options.

5398 (ption	Selection					? _ 🗆 ×
Bi	ll Numb	er BEL10	lte	:m			
R	evision	000					
							.
		Option Category	Required	Option	Option Description		
	1	Counter Top		01	Marble - Dora Royal		
	2	Cabinet Finish		02	Stain / Glazed		
	3	Door Styles		03	Item		
	4	Counter Top Finish		٩			
	5	Tear Down & Hallaway					
Ľ)
						<u> </u>	Cancel 🕜

The Generate Work Orders screen is opened with the Bill number selected and disabled

seperate Work ()rders	
-Work Order Fields-		
Next W.O. Number	0000273	
Routing Number		
Bill Number	BEL10	그, []
Options	01,02,03	
L		
	<u>G</u> ener	ate <u>C</u> ancel

Work Orders are generated for all the steps of Routing having the **Gen. W.O** option flagged in the **Routing Maintenance**. For the steps having **Mfg** checkbox selected in the Routing Maintenance Dispatches are automatically created under the Work Order with a Labor Code and **Machine Code** specified for that Step of the Routing.

-			5 IA A D						l	Copy from.
cript	ion E	quipment / AC MFG								
									Steps	by Dispatch
									[] 🖗	R R
	Step No.	Description	Req. Hours	Gen. W.O.	W.O.Type	Nature Of W.O.	Mfg	Labor Code	Machine	
1	0010	Pull Product	3.00	4	S					
2	0030	Assemble Case / Enclosure	5.00	⊻	м	ASSEMBLY				
3	0050	Install Motor / Pump	4.00		м	INSTALL				
4	0070	Install Temp Control / Heat Pa	4.00		м	INSTALL	\checkmark	LAB1	M1	
5			.00							
	_									

Press the **Edit/View** button to see the Work Orders generated for the Sales Order Bill line:

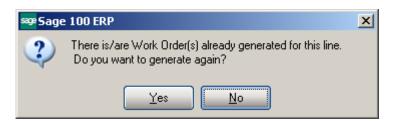
🤓 Sales Or	der Ent	r y (M PP) 4/2,	/2015				_ 🗆 🗵
Order Num	ber 0	1000189 🗐		d di 🖂	Copy fro	om De <u>f</u> aults	Customer Credit WOs 🔹
<u>1</u> . Heade	er)	2. Address	<u>3</u> . Lines	<u>4</u> . Totals	5. Credit Card	User Useriig	Generation
							<u>E</u> dit, <u>V</u> iew
[]	`s 10	51+11+	Quick Row	1 🔁	🖗 🗆 😓 -	1 🗆 🔯	[범립션섬률•]
	lte	em Code	Ordered	Back Ordered	Unit Price	Extension	Comment
1	BEL10	٩,	2.00	.00	2,836.000	5,672.00	
2			.00	.00	.000	.00	
•]	Base					F
Descri Wareh		ltem 001					
Unit Of M		EACH					
Ship		CHOIL		.00			
للصنعد		1		_			
						To	otal Amount 5,672.00
Print Order	. Print F	Pic <u>k</u> 👧 R	ecalc Price			Accept	Cancel Delete

		0 💋	9					2	5			
	W.O. Number	W.O. Description	W.O. Dat	te a	chine Co	W.O. Type	W.O. Status	ire Of V	iote Ho	uote Amou	Dispatch	Gene
1	0000273	Pull Product	4/2/2015			Setup	Entered		.00	.00		Line 1
2	0000274	Assemble Case / En	4/2/2015			Manufacturing	Entered		.00	.00		Line 1
3	0000275	Install Motor / Pump	4/2/2015			Manufacturing	Entered		.00	.00		Line 1
4	0000276	Install Temp Control .	4/2/2015		M1	Manufacturing	Entered		.00	.00	V	Line 1
•												F

The Number of the Work Order generated from a SO line is loaded in the **W.O. No**. field in the Sales Order secondary grid.

irder Nur		y (MPP) 4/3 /		d di 📺	Copy <u>f</u> ro	om De <u>f</u> aults	Lustomer Credit WOs
<u>1</u> . Head		2. Address	<u>3</u> . Lines		5. Credit Card	Jser Useriig	3
	800	H) • 😒 •	Quick Row	1 💋	🖗 [_] 👼 -	2	፼影住住影・
	Iter	m Code	Ordered	Back Ordered	Unit Price	Extension	Comment
1	BEL10	٩,	2.00	.00	2,836.000	5,672.00	
2			.00	.00	.000	.00	
Ship	Date 4	4/2/2015					•
· ·		4/2/2015 0000276					▶
W.O				_			 ▶
W.O Dispal Startin). No. 🛛			×			▶
W.O Dispal Startin	D. No. (atch No. ng Date			×		Tc	tal Amount 5,672.00

If there are multiple WOs generated for a line, the last Work Order number is displayed. The user may generate a new Work Order for a sales Order even if there are Task s already generated. In this case a prompt appears about the Task(s) already generated for Sales Order.



Here is the Dispatch automatically created for Mfg WO:

🔓 Dispatch Data En	try (MPP) 4/3/2015	
Work Order No 000 Dispatch No. 000	10276 [나, 14 4 🕨 🕅 Install Temp Control / Heat Pa 🧔	
1. Header	2. Lines User Useriig	
Dispatch Date	4/2/2015 🛅 Dispatch Status 0 🔍 🔒 Open	
Starting Date	4/2/2015 Starting Time 05:46 PM 💌 Commit Quantity	
Ending Date	4/2/2015 Ending Time 05:46 PM 💌	
	M1 Q MATK204-Auto 204 Auto Mold Number	
Machine MFG Item Code	M1 ATK204-Auto 204 Auto Mold Number BEL10 Lot/Serial No.	
		_ ** _
	Quantity on W0 2.00	
-Outside Processing	g	
Send Out	Receive	
Quic <u>k</u> Print	Manufacturing Labo <u>r A</u> ccept <u>C</u> ancel	Delete :

The Bill Item Components are loaded from the BOM into the WO Dispatch Transaction.

Dispatch No. 0001 [-/, [-' 1. Header 2. Lines User Useriig							
	🗞 (f) 😒	•	Quick Row	1 💋	00	25 ℃1450	
Serial N	o.		Add	New 📃 Incr	ement		
	ltem I	Code	Ordered	Unit Price	Extension	Comment 🔺	
1	BEL10	۹,	2.00	2,836.000	5,672.00		
2	BEL10-VIP		2.00	131.000	262.00		
3	FINSTNGLA	-ZE	36.00	.000	.00		
4	PLS-TRAY		2.00	135.000	270.00		
15	SLBMDR		96.00	.000	.00		
a ∎	TIP.VI		2.00	131.000	262.00	▼ ►	
Desc	ription Ite	m		_			
Ware	house 00	1					
Unit Of	Measure EA	(CH					
Price	Level 1			_			

To be able to enter a Labor line in the Labor **Charge Data Entry** it is necessary to have Miscellaneous Charge Item matching the Labor Code setup in the Miscellaneous Item Maintenance. The following message appears if no Misc. Charge is found with the Item Code matching the Labor Code entered:

se Sage	100 ERP	×
į	There is no Misc. Charge matching the Labor Code.	

9ºLabor C	Charge Data Entr <mark>y (</mark> MP	P) 4/3/2015		
Work Orde	er No. 0000276 Dis	spatch No. 0001 Dispatch Date 4	/2/2015 Starting	4/2/2015 05:46 PM
			Ending	4/2/2015 05:46 PM
	Start	Quick Row 1 🗗		2 ■ (1 (1 2 •
	Labor/Mold Type Code	Description	Hours Spent	
1	LAB1 🔍	Machine#1 Labor	2.50	
2			.00	
Machir	ne Code M1	Q		
				<u>Cancel</u> elete

Daily Production entry transactions are created when Dispatch is closed. The Labor line added in the Labor Charge Entry is loaded in the generated Production lines as a **Miscellaneous Charge** line.

If Work Order is generated from Sales Order header, the selected Bill Item is loaded to the generated Work Order. No manufacturing dispatch is generated in this case.

Custom UDFs

Dispatch Data Entry

The **Dispatch Data Entry** program has been modified to allow transferring the Dispatch UDF fields' values to respective UDF-s added on the B/M Production Entry.

🔓 * Dispatch Data Entry (MPP) 4/3/2015		
Work Order No 0000304 [-] Dispatch No. 0001 [-]	14 4 D DI		
<u>1</u> . Header <u>2</u> . Lines	Production	User Useriig	
Custom Field1			
Test Prod]		
Custom Field 2			
200.00			
Custom Field3			
4/3/2015			
Quic <u>k</u> Print	Manufacturing	Labo <u>r</u> <u>A</u> ccept <u>C</u> ancel	Delete

In order to have the UDF data transferred from Dispatch Data Entry to Production Entry, the UDF fields' names added on the Dispatch Data Entry should match the ones added on the Production Entry.

It is necessary to select the Data Source and respective column on the Data Sources tab of the Edit UDF screen:

	Header : Edit Field						? _ 🗆
ield Name	UDF_CUSTOM_FIELD1	[Locked]		Field in Use			
escription	Custom Field1			Bytes Used		f 20,000	
Control Type	Multi-Line	[Locked]		Name Space Use	d 529		
	<u>Multi-Line</u> <u>Drop-Box</u> <u>List-Box</u> Check-Box			Bytes Used is the the table. Name leng	e sum of the len Space Used is ths of all columr	bytes-used p	umns in Ius the
<u>1</u> . Attribut	tes <u>2</u> . Validation	<u>3</u> . Data Sources					
Business O		Select Data Source	Column	Ignore	Expression	DM]
BM_Produc	:tion_bus :tion_bus:CreateFromSMPDispatch	SM DispatchHeader	UDF_CUSTOM_FIELD1	•			2 2
							ancel (

If the UDF fields are created correctly and the data source specified, the UDF fields' values are transferred to the Production Entry generated upon closing the Manufacturing Dispatch.

ape * Production Entry (MPP) 4/3/2015	
Production Number 0000046 🗇 📋 🕪 🖗 🔊 Batch 00005	De <u>f</u> aults
<u>1</u> . Header <u>2</u> . Lines	
Production Date 4/3/2015	
Bill Number BEL10 Type Standard	
Revision 000 Option Code	
Parent Warehouse 000 CENTRAL WAREHOUSE Component Warehouse 000 CENTRAL WAREHOUSE Explode Sub-Assemblies Custom Field1 Test Prod	
Accept Cancel	

Production Number on the Dispatch

The **Production** button has been added on the Dispatch Header to provide a link to the Production Entry. The field added next to the **Production** button is populated with Production Number generated upon closing the manufacturing Dispatch.

see * Dispatch Data Entry (MPP) 4/3/2015	
Work Order No 0000304 🗁 🕅 🌒 🕨 🚺	
<u>1. Header</u> <u>2. Lines</u> Production User Useriig	
Dispatch Date 4/3/2015 Dispatch Status C - C Closed	
Starting Date 4/3/2015 Starting Time 04:45 PM v Corr Ending Date 4/3/2015 Ending Time 04:45 PM v Corr	mmit Quantity
Machine M002 Machine #2 M2 Mo MFG Item Code BEL10 Lot/Serial No.	Id Number
Production 0000046 Quantity on W0 1.00 Outside Processing Send Out Receive	
Quick Print Manufacturing	Labo <u>r O</u> K

Upon pressing the **Production** button respective Production Entry Lines tab is accessed:

	S •	1 🛃 🛛 🎼		25 ≷(1 25)•					
Lot/Se	component Item Code	Quantity/Bill	Extended Quantity	Commer					
1	BEL10-VIP		1.00						
2	PLS-TRAY	1.00	1.00						
3	TIP-XI	1.00	1.00						
4	/LAB2	2.00	2.00						
5		.00	.00						
Description HON 4 DRAWER LETTER FLE W/O LK Revision 000 Warehouse 000									

Dispatch Quick Printing

The **Dispatch Quick Printing** program has been modified to allow printing custom UDF fields and the generated Production Number. In order to have the UDFs populated in the SM_Dispatch worktable it is necessary to add those UDF fields in the SM Dispatch Report Table and select respective data source:

I Dispatch Report Table:Add F	ield		2
ield Name UDF_CUSTOM_FIE Description Custom Field1 Control Type ③ Multi-Line ③ Drop-Box	LD1 [Sourced]		Field in Use No Bytes Used
List-Box Check-Box Latributes L. Attributes L. Attributes	<u>A</u>	Data Sources	the table. Is the same Space Used is bytes used plus the lengths of all column names.
Business Object SM_DispatchQuickPrint_rpt		Source Column DispatchHeader UDF_CUST	Ignore Expression DM

Here is the SM_Dispatch Worktable with the UDF fields populated:

🔓 Data File	Display and Maintenance	<u> </u>
File Name	D:\MAS\MAS510\MPP\PU3\MAS90\MAS_MPP\SMMPP\SM_DispatchWrkIIG0403169998	.
Key Size	N/A Rcd Size 7,936 Rcd Count 5 Company MPP Type Keye	ed
0	10	70
111 Line 112 Labo 113 Line 114 Tech 115 Line 116 Star 117 Star 118 Over 120 Over 121 Impo 122 Hour 123 Bill 124 Reta 125 Over 127 UDF 127 UDF	00fMeasureConvFactor. 1.00 DiscountPercent. .00 orSkillCode\$ [] fType\$ [] micianCode\$ [M002] Desc\$ [] tingDate\$ [] tingTime\$ [] tingTime\$ [] timeStartDate\$ [] timeStartTime\$ [] ortToJC\$ [] :sSpent. .00 inerFactor. .00 imeFactor. .00 CUSTOM_FIELD1\$ [Test Prod] CUSTOM_FIELD2\$.200.00	
-	and Display Options n Separator 🛛 💌 Key Scan Filter 🗌 <u>F</u> ormatted Display 🗹	
Key No.		a 0,

MRP Inquiry

The **MRP Inquiry** program has been added under the **Material Planning and Production Management** Inquiries menu to allow reviewing information for an item by Transaction type and Required Date. The demand, supply, and Proj. On Hand quantities for an item can be viewed.

SEP MRP I	(nquiry (MP	P) 4/3/2015					<u>- 0 ×</u>
Item C	ode		٩,		U/M		
Descri	iption				On Hand	.00	
	Туре	Document No.	Required Date	Demand	Supply	Proj. On Hand	
	Type	Document No.	nequiled Date	Demand	зирру	FIOJ. OR HANU	
L							
							<u>o</u> k:

Ho. Required Date 1/22/2013 1/22/2013 1/22/2013 1/22/2013 8/24/2013 8/24/2013 8/24/2013 8/24/2013 8/26/2013 8/29/2013 8/29/2013 8/29/2013	Demand 30.00 30.00 250.00 1,500.00 3.00 4.00 310.00 2.00	Supply .00 .00 .00 .00 .00 .00 .00	Proj. On Hand Order Zoor 29.00 1,471.00- 1,474.00- 1,478.00- 1,788.00-
1/22/2013 1/22/2013 8/24/2013 8/24/2013 8/26/2013 8/29/2013	250.00 1,500.00 3.00 4.00 310.00	00. 00. 00. 00. 00.	29.00 1,471.00- 1,474.00- 1,478.00-
1/22/2013 8/24/2013 8/24/2013 8/26/2013 8/29/2013	1,500.00 3.00 4.00 310.00	.00 .00 .00 .00	1,471.00- 1,474.00- 1,478.00-
8/24/2013 8/24/2013 8/26/2013 8/29/2013	3.00 4.00 310.00	00. 00. 00.	1,474.00- 1,478.00-
8/24/2013 8/26/2013 8/29/2013	4.00 310.00	.00. .00	1,478.00-
8/26/2013 8/29/2013	310.00	.00	
8/29/2013			1 788 00-
	2.00		1,100.00
8/29/2013		.00	1,790.00-
	2.00	.00	1,792.00-
8/29/2013	2.00	.00	1,794.00-
001 8/29/2013	2.00	.00	1,796.00-
001 8/29/2013	2.00	.00	1,798.00-
01 9/3/2013	.00	35.00	1,763.00-
001 9/12/2013	.00	257.00	1,506.00-
10/29/2013	1,580.00	.00	3,086.00-
001 10/29/2013	.00	1,560.00	1,526.00-
001 3/17/2015	.00	2,974.00	1,448.00
001 3/24/2015	.00	173.00	1,621.00
4/2/2015	2.00	.00	1,619.00
	.00	2.00	1,621.00
)(10/29/2013 01 3/17/2015 01 3/24/2015	01 10/29/2013 .00 01 3/17/2015 .00 01 3/24/2015 .00 4/2/2015 2.00	01 10/29/2013 .00 1,560.00 01 3/17/2015 .00 2,974.00 01 3/24/2015 .00 173.00 4/2/2015 2.00 .00

Bill of Materials Inquiry

The **Item Inquiry** and **MRP Inquiry** buttons added to the **Bill of Materials Inquiry** screen allows for drill down respectively to Item Inquiry and MRP Inquiry for the selected component line.

🔤 Bill of Materia	ls Inquir	y (MPP)	4/3/2015							
D'II NI I	DEL 10				- 04 4	0.00				
Bill Number	BEL10				• 14 4					xplode
Revision	000 🖓			Current Revision	000					
Bill Type	Standard			Description 1	Item					
Unit of Measure	EACH			Description 2						
Routing Number	EQP_MF	G		Date Last Used	12/11/20	13				
Option Code	01,02		5	Effective Date	4/3/2015		Detail t	o Display	Include All De	tail 💌
Single-Lev Component Ite BEL10-VIP FINSTNGLAZE PLS-TRAY SLBMDR TIP-XI /LAB2 /MISC_CHARG	m Code	O In Revision 000	idented Type Standard	Summarized Description HON 4 DRAWER I DESK FILE 5 1/4" HON 4 DRAWER I Dora Royal Marble HON 4 DRAWER I Labor 2 charge Charge 1	CAP 50 .ETTER	Quantit	y/Par 1.00 18.00 1.00 48.00 1.00 2.00 3.00	U/M EACH EACH EACH EACH EACH	Comment	1
							1			

🔓 Item Inquiry	(MPP) 4/3/2015				
	10-VIP A 4 DRAWER LETTER FLE		4 🕨 🕅 🛅 😒		More 🔻
<u>1</u> . Main	<u>2</u> . Additional <u>3</u> .	Quantity <u>4</u> . History	5. Transactions	<u>6</u> . Orders	7. Cost Detail
Product Line Product Type Valuation Procurement	Finished Good 💌	ATION FURN & ACCESS Weight Volume 0.0000 Inventory Cycle	Unit of Measure Standard EACH Purchases EACH Sales EACH <u>OP Warehouse</u>	[고] [고] No. of EA [고] No. of EA	
Price Code Default Whse Planning Code	000 CENTRAL W		ary Vendor 01-CONT anty Code Code Made to Stock		ner Corporation Of Usa
Sales		Purchases		-Last Costs	
Retail Price	131.000	Standard Cost	82.500	Item	1,733.550
Standard Price	131.000	Average Cost	1,654.458	Allocated	.000
Last Sold		Last Receipt	3/31/2015	Total	1,733.550
000 CENT 001 EAST	ription On Hand RAL 783.00 WA 52.00 wareh00	On PO On SO 244.00 .00 212.00 11.00 .00 5.00	On Bk Ord Committed .00 .00 .00 11.00 .00 5.00	On W0 F 1,195.00 1.00- .00	Req for WD Av 55 466.00 3,119.00 .00
					F
					<u>ok</u> a

oriptio	on HOM	4 DRAWER LETTE	R FLE W/O LK		On Hand	835.00
	Туре	Document No.	Required Date	Demand	Supply	Proj. On Hand
1	PO	0010019	3/20/2013	.00	239.00	1,074.00
2	PO	0010019	3/20/2013	.00	208.00	1,282.00
3	PO	0010024	3/20/2013	.00	3.00	1,285.00
4	PO	0010035	3/20/2013	.00	4.00	1,289.00
5	PO	0010040	3/20/2013	.00	2.00	1,291.00
6	SO	0000178	8/24/2013	5.00	.00	1,286.00
7	SO	0000179	8/24/2013	6.00	.00	1,280.00
8	WO	0000163/0001	9/3/2013	35.00	.00	1,245.00
9	W0	0000196/0001	9/12/2013	257.00	.00	988.00
10	W0	0000204/0001	10/29/2013	1,560.00	.00	572.00-
11	W0	0000198/0001	10/31/2013	.00	257.00	315.00-
12	W0	0000208/0001	11/4/2013	.00	257.00	58.00-
13	W0	0000245/0001	3/17/2015	2,974.00	.00	3,032.00-
14	W0	0000253/0001	3/24/2015	173.00	.00	3,205.00-
15	W0	0000253/0002	3/24/2015	.00	173.00	3,032.00-
16	W0	0000276/0001	4/2/2015	2.00	.00	3,034.00-
17	SO	0000190	4/3/2015	5.00	.00	3,039.00-

Production Release Status

Change Manufacturing Dispatches Status/Date

The **Change Manufacturing Dispatches Status/Date** program has been added under the **Material Planning and Production Management ->Main** menu to allow processing all manufacturing dispatches for a given status and dispatch date range to check for availability of inventory for production of quantity (all the components) on the dispatch.

Additional selections for WO type, Nature of W.O. and Customer Number are available:

sage Chan	ge Manufact	uring D	vispatcl	nes Stal	:us/Date (MPP) 4/3/201	.5				Ĭ×
Select	Field		Operan	d	Value						
W.0. 1	Гуре	ĺ	All	-							
Nature	e of W.O.		All	-							
Custor	ner Number		All	-							
Dispat	ch Status		All	-							
Dispat	ch Date		All	-							
								-			_
	W.O. No.	Dispat	tch No.	lter	n Code	Whse Code	Qty Avail.	Qty Ord.	Customer No.	Dispate	[]
•										Þ	
Clea	r								S <u>e</u> lect <u>C</u> ance	P <u>r</u> ocee	

Press **Select** to load the Dispatches meeting the selection criteria:

Select	: Field	Opera	nd Va	lue				
W.O. 1	Гуре	All	•					
Nature	e of W.O.	All	-					
Custor	ner Number	All	•					
Dispat	ch Status	All	-					
Dispat	ch Date	All	-					
	W.O. No.	Dispatch No.	Item Code	Dispatch Date	Disp. St.	Start Date	Include	▲
15	0000258	0003	BEL25	3/17/2015	0	3/9/2015		
16	0000267	0003	BEL10	3/17/2015	0	3/10/2015		
17	0000271	0001	BEL25	4/2/2015	0	4/2/2015		
18	0000276	0001	BEL10	4/2/2015	0	4/2/2015		
19	0000277	0001	TEST_BILL	4/3/2015	0	4/3/2015		
20	0000277	0002	TEST_BILL	4/3/2015	R	4/3/2015		
21	0000277	0003	TEST_BILL	4/3/2015	R	4/3/2015		
22	0000281	0001	BEL10	4/3/2015	0	4/3/2015		
23	0000281	0002	BEL10-VIP	4/3/2015	0	4/3/2015		
•								•

The **Qty Available** column displays the min quantity available to produce current Bill based on the components quantity available in the Warehouse. Here the user can change the Dispatch Status and Dispatch start Date. If there is enough inventory in stock for current Bill (Qty Ordered< QtyAvail) the user can change the Dispatch Status to the one setup as the **Dispatch Status** (**Released to Production**) in the **Material Planning and Production Setup** without any warning.

If there is not enough inventory in stock for current Bill (Qty Ordered > QtyAvail) a message appears upon changing a **Dispatch Status** to the one setup as the Dispatch Status (Released to Production) in the **Material Planning and Production Setup:**

Select	Field	Opera	and V	/alue				
W.O. 1	Гуре	All	-					
Nature	of W.O.	All	-					
Custon	ner Number	All	-					
Dispati	ch Status	All	-					
Dispat	ch Date	All	-					
						1		
	W.O. No.	Dispatch No	. Item Cod	e Dispatch Date	Disp. St.	Start Date	Include	<u> </u>
11	0000245	0001	BEL10	3/17/2015	0	3/17/2015	Ę.	
12	0000248	0001 sage Sa	ige 100 ERI	,			×	
13	0000253	0001	TI .	not enough invento	ru in stock to			
14	0000253	0002 🤱		not enough invento	IY IT SOCK (C	generate produc	aon.	
15	0000258	0003		(<u>i</u> k			
16	0000267	0003						
17	0000271	0001	BEL25	4/2/2015	0	4/2/2015		
18	0000276	0001	BEL10	4/2/2015	R 🔍	4/2/2015		
19	0000277	0001	TEST_BIL	L 4/3/2015	0	4/3/2015		
20 •	0000277	0002	TEST BIL	L 4/3/2015	R	4/3/2015		▼

After pressing Ok the status will be changed. It is necessary to select the **Include** checkbox and press Proceed to have the Date and Status changes updated on respective Dispatches.

Auto Generate Production for Component Bill

Bill of Material Maintenance

The **Auto Production checkbox** has been added to the **Bill of Materials Maintenance** Lines grid to allow indicating the component Item, which is manufactured item (item that has its own BOM needs to be produced together.

^{sage} Bill of №	1aterials Maintenance	(MPP) 4/3/2015				
Bill Numb Revision Bill Type <u>1</u> . Hea	000 Standard	Description 1 Item Description 2] ¹ .5 🕅	4 6 61	Copy From	More 🔻
	• 🐼	Quick Row 1	2	2	2	▓લख≅∙
	Component	t Item Code	Revision	Step No.	Quantity/Bill	C4
1	BEL10-VIP	٩,	×		1.00	
2	PLS-TRAY				1.00	
3	TIP-XI				1.00	
4	/LAB2				2.00	
5					.00	
Del Ch	ange No.		_			
Del Ch	ange Dte					
Extend	led Desc					
Auto Pi	roduction		_			
				Accept	<u>C</u> ancel	

Two Dispatches (One for the main Bill Number and one for the component Bill) will be generated for production of these items when Work Order is generated for the Bill Number from the **Calculate Quantity To Produce/Purchase** program.

	ne Code	🔍 Star	t Date 📃 4/3/		12:00 AM							
	Item Code	Whse	· · ·	Qty Avail MRP Run		Reord. Qty	EOR	Max Qty	Calc. Demand	Mold Number	Machine Code	Include
1	1001-HON-H252LK		180.00		Economic Qty 💌	.00	.00	.00	186.00			
2	1001-HON-H254	MRP	60.00		Economic Qty -		.00	.00	60.00			
3	200-230	MRP	60.00		Economic Qty 💌	.00	.00	.00	60.00			
1	230-182-Z	MRP	45.00		Economic Qty 💌	.00	.00	.00	45.00			
5	2480-8-50	MRP	120.00		Economic Qty 🝷	.00	.00	.00	138.00			
;	6655	MRP	720.00		Economic Qty -	.00	.00	.00	720.00			
7	720-100	MRP	75.00		Economic Qty -	.00	.00	.00	75.00	000	1.1000	
}	BEL10	MRP	.00		Economic Qty -	.00	.00	.00		002 🔍	M002	V
3	BEL10-VIP PLS-TRAY	MRP MRP	15.00 15.00		Economic Qty	.00	.00	.00	32.00 15.00			
0	TIP-XI	MRP	15.00		Economic Qty • Economic Qty •		.00 .00	.00 .00	15.00			
-		MPL	15.00	15.00-	Economic Qty	.00	.00	.00	15.00			

Here are 2 Dispatches generated for current Bill Item:

saga	Work Order E	ntr y (MPP) 4/3/						
	Work Order No.	0000281	CLE N -	🌒 👂 🕅 İnstall T	emp Control /	Heat Pa	₽ [De <u>f</u> aults
	<u>1</u> . Header	<u>2</u> . Address	<u>3</u> . Dispatches)	User Us	eriig		
	Dispatch No.	Dispatch Date	Machine	Machine Name	Status			<u> </u>
	0001 0002	4/3/2015 4/3/2015	M002 M002	Machine #2 M2 Machine #2 M2	Open Open			
	0002	47072010	11002		open			
	Desirate Drives						Conned 1	Dalata
Ľ	Quic <u>k</u> Print					Accept	<u>C</u> ancel	<u>D</u> elete

This is the Dispatch generated for main Bill:

🔓 Dispatch Data Entr	y (MPP) 4/3/2015				_ 🗆 X
Work Order No 00002 Dispatch No. 0001	281 (H) 14 (H) (H) 1940 E 1	Install Temp Control /	/ Heat Pa	P	
	Lines		User Useriig		
Dispatch Date	4/3/2015	Dispatch Status 0	🔍 🔒 Open		
	4/3/2015 💼 4/3/2015 💼	Starting Time Ending Time	11:53 AM 💌 11:53 AM 💌	Commit Quantity	
	M002 Q Machine #2		/Serial No.	Mold Number 002	Q 6
Outside Processing	eceive	Quantity on WC	j į	5.00	
Quic <u>k</u> Print	Manufacturing	3	Labo <u>r</u> 4	Accept Cancel	Delete

Work Ori ^J ispatch <u>1</u> . Hea) IA A D DI [Install Temp Cont	rol / Heat Pa User User	iig
	N 🔁 🔹	Quick Row	1 🛃		
Serial N	lo.	Add	New 🗌 Incr	ement	
	Item Code	Ordered	Unit Price	Extension	Comment 🔺
1	BEL10	5.00	81.480	407.40	
2	BEL10-VIP	5.00	127.070	635.35	
3	PLS-TRAY	5.00	130.950	654.75	
4	TIP-XI	5.00	127.070	635.35	
5	/LAB2	10.00	.000	25.00	
а •	1	00	000	00	
Desc	cription Item		_		
Ware	ehouse MRP				
Unit Of	Measure EACH				
Price	e Level		_		
					Total Amount 2,357.85
uic <u>k</u> Prir		Manufacturing		Labor	Accept Cancel Delete

Here is the second dispatch generated for component Bill:

ispatch <u>1</u> . Hea		<u>2</u> . Lines			User User	ig	
	8 H	₹5 -	Quick Row	1 🛃			k (∃ (⊒ ₽ •
Serial N	0.		Add	New 📃 Incr	ement 📃		
	lt	em Code	Ordered	Unit Price	Extension	C	omment 🔺
1	BEL10-\	/IP 🔍	5.00	127.070	635.35		
2	200-230		20.00	179.000	3,580.00		
3 230-182-Z		15.00	125.550	1,883.25			
4	720-100		25.00	429.000	10,725.00		
5	/MISC_	CHARGE3	15.00	.000	50.00	23	
م ا	1		00	000	00		<u> </u>
Desc	ription	HON 4 DRAW	ER LETTER FLE	W/0 LK 🔺			
	house	MRP					
Unit Of	Measure	EACH					
Price	Level			-			
						Total Amount	16,873.60
uic <u>k</u> Prir			Manufacturing		Labor	Accept Ca	ancel Delete



When the Dispatch generated for the main Bill Number is closed, the first Production is generated for the component Bill and then for the Main Bill Number:

eroduction En	try (MPP) 4/3/2015	
Production Number	er 0000043 🗁 📋 📢 🗳 🕨 🔛 🛛 Batch 00003 👘	De <u>f</u> aults
1. Header	2. Lines	
Production Date	4/3/2015	
Bill Number	BEL10-VIP HON 4 DRAWER LETTER F	EE W/O LK
Bill Type	Standard	
Revision Option Code Quantity Unit of Measure Effective Date	000 [•] , 5.00 EACH 4/3/2015	
Parent Warehou Component War Explode Sub-Ass	ehouse MRP Q MRP warehouse	
<u>(%)</u>	Accept Cancel	

oductio <u>1</u> . Hea	on Number 0000043 [-], [_1] [4] 4 (ader 2. Lines] 		Batch	00003	Default:
Lot/Se	erial Number				
	Component Item Code		Quantity/Bill	Extended Quantity	Commer
1	200-230	٩	4.00	20.00	
2	230-182-Z		3.00	15.00	
3	720-100		5.00	25.00	
4	/MISC_CHARGE3		3.00	15.00	23
5			.00	.00	
	cription PRINTER STAND W/ BASKET		<u> </u>		
	rehouse MRP				
Unit Of	f Measure EACH		-		

eroduction En	try (MPP) 4/3/2015	
Production Number	er 0000044 🖓 🔄 📢 🗳 🕨 🕒 🛛 Batch 00003 🖆	De <u>f</u> aults
<u>1</u> . Header	<u>2</u> . Lines	
Production Date	4/3/2015 💼	
Bill Number	BEL10 Ltem	
Віії Туре	Standard	
Revision Option Code Quantity Unit of Measure Effective Date	000, 5.00 EACH 4/3/2015	
Parent Warehou Component War Explode Sub-Ass	ehouse MRP 🔍 MRP warehouse	
	Accept Car	ncel Delete 🔒 🕢

oductio <u>1</u> . Hea	on Number 0000044 [-2, [_1] [4] 4 (ader 2. Lines] 100	▶ ▶	sh 00003 20	Defaults
Lot/Se	arial Number			
	Component Item Code	Quantity/Bill	Extended Quantity	Commen
1	BEL10-VIP	1.00		
2	PLS-TRAY	1.00		
3	TIP-XI	1.00		
4	/LAB2	2.00		
5	/LAB1	.00		Labor Description: Machir
6		.00	.00	
•				•
Des	cription HON 4 DRAWER LETTER FLE V	V/0 LK 🔺		
Re	vision 000			
War	ehouse MRP			
Unit Of	f Measure EACH	-		

Outside Processing

Dispatch Data Entry

The **Dispatch Data Entry** program has been modified to enable outside processing for bill components which are processed outside your company.

🔓 Dispatch Data En	try (MPP) 4/3/2015				
Work Order No				₽	
	1 [, [] <u>2</u> . Lines		User Useriig		
Dispatch Date	4/3/2015	Dispatch Status	O 🔍 🔒 Open		
Starting Date Ending Date	4/3/2015 🗂 4/3/2015 🗂	Starting Time Ending Time	12:07 PM 💌 12:08 PM 💌	Commit Quantity	
Machine MFG Item Code	M002 Machine #2 BEL10-VIP		.ot/Serial No.	Mold Number 002	%
		Quantity on V	VO 1!	5.00	
Outside Processing	g Receive				
Quic <u>k</u> Print	Manufacturing	I	Labo <u>r</u> į	Accept <u>C</u> ancel	Delete

The Outside processing is performed by the following steps:

- a. sending Items for outside processing
- b. receiving the Items already processed

Upon pressing **Send Out** button all the components with Standard and Average Cost valuation types (LIFO, FIFO and Lot/Serial valuation types are not supported) are automatically loaded into the **Send out Items for outside Processing** grid.

sage	Send O	ut Items for	Outside Pro	cessing		
		Item Code	Warehouse	OP Warehouse	Quantity	Include
	1	200-230	MRP	OP	60.00	
	2	720-100	000	OP	75.00	
	4					
					<u> </u>	<u>C</u> ancel

The Warehouse field displays the Warehouse Code from the Dispatch line and the OP warehouse is the **OP Warehouse** code specified for current Item in the Item Maintenance or the OP Warehouse Code setup in the **Material Planning and Production Setup** if there is not one selected in the **Item Maintenance**.

It is necessary to select include checkbox for a component and press OK to have Transfer Transaction automatically generated.

seno	l Out Items for Ou	tside Processin	g		_ 🗆 ×
	Item Code	Warehouse)P Warehous	Quantity	Include
1	200-230	MRP	OP	60.00	X
2	720-100	000	OP	75.00	X
I					
				<u>о</u> к	<u>C</u> ancel
see Sage	100 ERP		×	1	
(j)	Transaction(s) gene	ration completed s	succesfully.		

Transfer transaction(s) is/are generated for the Items send out for outside processir	ng
Here is the Transfer transaction generated:	U

<u>0</u>K

see Transaction Entry (MPP) 4/3/2015	<u> </u>
Transaction Type Transfers I I Entry Number 00000001 I I 1. Header 2. Lines	
Transaction Date 4/3/2015	
Transfer From Warehouse 000 2 CENTRAL WAREHOUSE Transfer To Warehouse 0P Q Outside Processing	
Comment SM Outside Processing	
<u>Accept</u>	.

The Outside Processing Warehouse is set as the **Transfer To** Warehouse for current transaction.

For the Dispatch lines send out for outside processing the Item Code cell becomes red colored:

	der No 00 No. 00	Entry (MPP) (000282	•/3/2015 I¶ ¶ D DI[User User	
	🔊 🔊	•	Quick Row	3 🌮		22 (1) (1) 2 →
Serial N	0.		Add	New 🗌 Incr	rement	
	lte	em Code	Ordered	Unit Price	Extension	Comment 🔺
1	BEL10-V	/IP	15.00	121.830	1,827.45	
2	200-230		60.00	179.000	10,740.00	
3	230-182	Z 🔍	45.00	121.500	5,467.50	
4	720-100		75.00	429.000	32,175.00	
5	/MISC_0	CHARGE3	45.00	.000	50.00	23
۹ ۲				000	00	
Desc	cription	HON 4 DRAV	/ER LETTER FLE	W/O LK 🔺		
Ware	ehouse	000				
Unit Of	Measure	EACH				
Price	e Level	1		-		
						Total Amount 50,259.95
)uic <u>k</u> Prir	nt		Manufacturing		Labor	Accept Cancel Delete

It is necessary to manually update Transfer transaction generated during Send Out process.

Receiving of Items is performed similar to sending just by pressing the **Receive** button. While receiving Items Item may be replaced by another Item. While receiving Items Transfer transaction is generated for receiving the Item from OP Warehouse to the Warehouse specified on the Dispatch Line.

If a replacement Item is entered for an Item in the **Receive Items from Outside Processing** grid an adjustment transaction will be generated for that Item and the Item Code in the Dispatch Line will be replaced with that item Code.

eceive	e Items fron	n Outside Processii	ng			_ 🗆 🤉
	Item Code	Replace Item Code	Warehouse	'Warehoi	Quantity	Include
1	200-230	٩,	MRP	OP	60.00	
2	720-100		000	OP	75.00	
I						
				[<u>0</u> K	<u>C</u> ancel

200-230 720-100	230-182-Z	MRP 000	OP OP	60.00 75.00	X
720-100		000	OP		

ispatch <u>1</u> . Hea		001 [-4, [-1 <u>2</u> . Lines			User User	ïg
	8 (1)	≪ -	Quick Row	2 🛃		
Serial N	lo.		Add	New 🗌 Incr	ement	
	lte	em Code	Ordered	Unit Price	Extension	Comment 🔺
1	BEL10-V	/IP	15.00	121.830	1,827.45	
2	230-182	-Z	60.00	121.500	7,290.00	
3	230-182	Z	45.00	121.500	5,467.50	
4	720-100		75.00	429.000	32,175.00	
5	/MISC_0	CHARGE3	45.00	.000	50.00	23
a ∎			00	000	00	► ►
Des	cription	HON 4 DRAW	ER LETTER FLE	w/0 LK 🔺		
War	ehouse	MRP				
Unit O	f Measure	EACH				
Pric	e Level	1		-		
						Total Amount 46,809.95

If Batch processing for Transaction entry is enabled in the **Inventory Management Options a Batch** is created with a comment indicating the Batch is created for Outside Processing and all transaction auto generated during outside processing are located in that batch.

‱ I/M Transac	tion Entry Ba	tch			×
Batch Number Comment Private Batch	00001 ^{(1,2}) SM Outside P	E 14 4 rocessing		<u>M</u> odify <u>V</u> erify <u>R</u> enumber <u>Me</u> rge	
Status A Entries	vailable 1	Created By Modified By	IIG IIG	4/3/2015 01:59:24 pm 4/3/2015 01:59:24 pm	
		(Accept	t <u>C</u> ancel <u>D</u> elete	

Lot/Serial Distribution

Dispatch Data Entry

Use the **Lot/Serial Number Distribution** button to distribute the transaction quantity or to display the lot and serial numbers that are already distributed for the current line item.

^{sage} Dispato	ch Data Entry (Mi	PP) 4/3/2015				
Work Or Dispatch	rder No 0000277 No. 0003 []	1	MFG Product			
	<u>1</u> . Header <u>2</u> . Lines User Useriig					
-						
	📎 🕅 🐼 🔹	Quick Row	3 🛃		25 ℃(16 5 •	
Serial N	lo.	Add	Lot/Serial Distri	bution, Alt-Y		
	Item Code	Ordered	Unit Price	Extension	Comment	
1	TEST_BILL	2.00	84.000	168.00		
2	1001-HON-H252L	< 2.00	87.000	174.00		
🛕 З	2480-8-50	6.00	33.902	203.41		
4	BEL10-VIP	4.00	131.000	524.00		
5		.00	.000	.00		
I I -						
Des	cription DESK FIL	.E 8'' CAP 50				
	ehouse 000					
Unit Of	Measure EACH		Q,			
					Total Amount 1,069.41	
Quic <u>k</u> Prir	nt	Manufacturing		Labo <u>r</u>	Accept <u>C</u> ancel <u>D</u> elete	

When entering a lot or serial item during line entry, you are required to distribute the total quantity entered for the item to one or more lot/serial numbers. You can enter the lot/serial numbers and quantities one at a time until the total quantity for the item is fully distributed. If the **Require lines to be Fully Distributed** flag is set in the **Material Planning and Production Setup** screen you must fully distribute all lot and serial lines before accepting Dispatch Entry.

sage	Lot/Se	rial Number Distributio	n		? <u>_ </u> ×		
	tem Code Jnit of Me			DESK	FILE 8" CAP 50		
		Lot Number	Available	Distribute			
	1	101	9,699.00	2.00			
	2	10210	198.00	2.00			
	3	JAN10	323.00	2.00			
	4	Ф,	.00	.00	🗊 -		
	Distribution Balance .00						
					<u>DK</u> <u>Cancel</u>		

Available -This field displays the lot or serial number quantity available for the selected lot or serial number and can only be viewed.

Distribute-Type the total quantity to distribute for the lot or serial number selected.

The **Distribution Balance** field at the bottom of the window reflects a running total of the remaining quantity to distribute. This balance does not reflect the quantity entered for the current line.

Note When the warehouse code, or unit of measure is changed on a previously saved line with existing lot and serial distribution records, the previously entered distribution records are removed.

Work Or Dispatch <u>1</u> . Hea	No. 00		14 4 6 61	MFG Product	User Useri	
	[`&3)`	*	<u>Q</u> uick Row	5 🎾	QCD	1월립(3)일기 -
Serial N	0.	55-127	Add	New 🔽 Incr	ement	
	lte	m Code	Ordered	Unit Price	Extension	Comment
1	TEST_BI	LL	2.00	84.000	168.00	
2	1001-HO	N-H252LK	2.00	87.000	174.00	
3	2480-8-5	0	6.00	33.902	203.41	
4	BEL10-V	IP	4.00	131.000	524.00	
5	ľ	٩	.00	.000	.00	
Ware Unit Of	Image: Description Warehouse Unit Of Measure Price Level					
						Total Amount 1,069.41

For **Serial Items** Serial number scanning is provided on the Dispatch entry Lines: In the **Add New** mode upon scanning serial number respective Serial Item is loaded in the grid with the ordered quantity set to 1 and the Serial Item is distributed by the scanned Serial number.

If the **Increment** checkbox is selected upon scanning each Serial Number the ordered quantity is incremented by one with respective Serial Number auto distributed.

Serial No. Add New Increment Increment 1 Item Code Ordered Unit Price Extension Comment 1 TEST_BILL 2.00 84.000 168.00 2 2 1001-HON-H252LK 2.00 87.000 174.00 3 3 2480-8-50 6.00 33.902 203.41 200 86.00 4 BEL10-VIP 4.00 131.000 524.00 5 6B-MD788 2.00 99.500 199.00 1 Descriptior Item Code GB-MD788 MODEM 300 (AUTO-ANSWER) 1 Unit of Measure EACH Varehouse Unit of Measure EACH 1 28-275 .00 1.00 1.00	<u>1</u> . Heada	ler <u>2</u> .1	Lines				User Useriig	
Item Code Ordered Unit Price Extension Comment 1 TEST_BILL 2.00 84.000 168.00 2 1001-HON-H252LK 2.00 87.000 174.00 3 2480-8-50 6.00 33.902 203.41 4 BEL10-VIP 4.00 131.000 524.00 5 GB-MD788 2.00 99.500 199.00 4 Set Lot/Serial Number Distribution ?		🏷 (H) 😒	•		Quick Row	5 💋		2≅ ,2€′⊒ 5 ,
1 TEST_BILL 2.00 84.000 168.00 2 1001-H0N-H252LK 2.00 87.000 174.00 3 2480-8-50 6.00 33.902 203.41 4 BEL10-VIP 4.00 131.000 524.00 5 GB-MD788 2.00 99.500 199.00 4 ELOt/Serial Number Distribution ? 0 Code GB-MD788 MODEM 300 (AUTO-ANSWER) Unit of Measure EACH MODEM 300 (AUTO-ANSWER) Unit of Measure Serial Number Available Distribute 1 28-275 .00 1.00	erial No.				Add	New 🗌 Incre	ement 🔽	
2 1001-HON-H252LK 2.00 87.000 174.00 3 2480-8-50 6.00 33.902 203.41 4 BEL10-VIP 4.00 131.000 524.00 5 GB-MD788 2.00 99.500 199.00 *** Lot/Serial Number Distribution C S*** Lot/Serial Number Distribution ?* Descriptior Item Code GB-MD788 MODEM 300 (AUTO-ANSWER) Unit Of Meas Varehouse Variable Distribute Image: Serial Number Price Leve Serial Number Available Distribute Image: Serial Number		Item Co	ode		Ordered	Unit Price	Extension	Comment
3 2480-8-50 6.00 33.902 203.41 4 BEL10-VIP 4.00 131.000 524.00 5 GB-MD788 2.00 99.500 199.00 • • • • • Description Item Code GB-MD788 MODEM 300 (AUTO-ANSWER) Warehouse Unit of Measure EACH • Unit 0f Meas Serial Number Available Distribute 1 28-275 .00 1.00	1 1	TEST_BILL			2.00	84.000	168.00	
4 BEL10-VIP 4.00 131.000 524.00 5 GB-MD788 2.00 99.500 199.00 • • • • • • • • • • • • • • • • • • • • • • •	2 1	1001-HON-H	252LI	к	2.00	87.000	174.00	
5 GB-MD788 2.00 99.500 199.00 	3 2	2480-8-50			6.00	33.902		
Percent Serial Number Distribution ?					4.00	131,000	524.00	
Description Item Code GB-MD788 MODEM 300 (AUTO-ANSWER) Warehouse Unit of Measure EACH Unit Of Meas Serial Number Available Price Leve 1 28-275	4 i	BEL10-VIP			4.00	101.000		
Price Leve Serial Number Available Distribute 1 28-275 .00 1.00) <mark>5</mark> ۱	GB-MD788			2.00 nber Distributi	99.500	199.00	? ×
1 28-275 .00 <u>1.00</u>	5 (F Descrip Wareh	GB-MD788 See Lot iption Item house Unit	Code		2.00 nber Distributi GB-MD788	99.500	199.00	
	5 Cescrij Wareh Jnit Of M	GB-MD788	Code	asure	2.00 nber Distributi GB-MD788 EACH	99.500	199.00 MODEM	300 (AUTO-ANSWER)
2 55-127 .00 1.00	5 Cescrij Wareh Jnit Of M	GB-MD788	Code of Me	asure S	2.00 nber Distributi GB-MD788 EACH erial Number	99.500 on Available	199.00 MODEM	300 (AUTO-ANSWER)
300 .00	5 Cescrij Wareh Jnit Of M	GB-MD788	Code of Me	asure S	2.00 nber Distributi GB-MD788 EACH erial Number	99.500 on Available	199.00 MODEM Distribute	300 (AUTO-ANSWER)
	5 Cescrij Wareh Jnit Of M	GB-MD788	Code of Me 1 2	easure S 28-275	2.00 nber Distributi GB-MD788 EACH erial Number	99.500 on Available .00 .00	199.00 MODEM Distribute 0 1.00 0 1.00	300 (AUTO-ANSWER)

The Lot/Serial distribute quantity is always committed regardless the Dispatch Header Commit checkbox setting.

When **Manufacturing Dispatch**, having Bill Item with Lot/Serial components fully distributed, is closed the distribution is carried over to the Production generated.

The Lot/Serial distribution is carried over also to the Sales Order/SO Invoice generated upon closing the Dispatch if the Lot/Serial items are fully distributed.

Processing of BOM's with Percentage

Bill of Material Maintenance

The **Components By Percentage** checkbox has been added on the **Header** tab of **Bill of Materials Maintenance** to enable entering Percentage for component items instead of **Quantity/Bill.**

See Bill of Materials Maintenance (MPP) 4/3/2015	
	I I I I I I I I I I I I I I I I I I I
1. Header 2. Lines Drawing Number	Option Categories 1
	$\underline{Accept} \underline{C}ancel \underline{D}elete \underline{\Box}$

Upon selecting this checkbox on the **Bill of Materials Header** the Quantity/Bill field is hid and the **Percentage** field is shown instead:

The **Production Lot/Batch Size** field is intended for entry of the lot/batch quantity of the product to be produced. It is loaded to the respective field in the Work Order entry upon selecting the Bill Item.

The **Production Increment** field is intended for determination of the optimum production lot/batch size of a product and the ordering quantities of associated raw materials together.

ll Number	TEST_BILL				Copy From	More
evision	000	· · ·	st Bill Item			
ill Type	Standard 💌	Description 2				
<u>1</u> . Header	<u>2</u> . Lines					
	` *	Quick Row	2 🛃 🛛 [,		12	=1<= (= 🔜 💀 •
	Component	Item Code	Revision	Step No.	Percentage	(
1 10	01-HON-H252LK		×	0010	50.00	
2 BE	L10-VIP		×	0020	20.00	
3 24	80-8-50			0030	30.00	
4					.00	
•						•
Descripti	ion HON 4 DRAW	ER LETTER FLE W/O	LK 🔺			
Find No	D.					
Unit Of Measure EACH						
Cost Acco	ount		_			

Checking is performed upon **Accept** to not allow accepting the entry if the sum of components percentages is not 100.

see Sage	100 ERP	×
(į)	Lines Total Percentage must be 100%.	
	<u>Ω</u> K	

When Manufacturing Dispatch, Production is generated for Bill Item with Percentages entered for components, the components' quantity in the Dispatch and production entries is calculated based on the Percentage specified in the Bill of Materials Entry. Here is an example of Manufacturing Dispatch created for Bill Item with components percentages:

ispatch <u>1</u> . Hea		1		User Useri	iig
	N 🕅 😒 🔹	Quick Row	1 🛃		
Serial N	0.	Add	New 🗌 Incr	ement	
	Item Code	Ordered	Unit Price	Extension	Comment
1	TEST_BILL	1.00	84.000	84.00	
2	1001-HON-H252LK	.50	87.000	43.50	
🛕 З	2480-8-50	.30	34.950	10.49	
4	BEL10-VIP	.20	131.000	26.20	
5		.00	.000	.00	
•					Þ
Desc	ription Item		_		
Ware	ehouse 000				
Unit Of	Measure EACH				
Price Level 1					
					Total Amount 164.19

The **Production Lot/Batch Size** and **Production Increment** fields' values are defaulted to the Work Order and are applied when generation Dispatch from Work order entry:

😎 Work Order Entry (MPP) 4/3/2015	<u>_ </u>						
Work Order No. 0000268 🗁 🖂 🕼 🚺 🖌 🕨	Defaults						
<u>1</u> . Header <u>2</u> . Address <u>3</u> . Dispatches User	Useriig						
Order Date 3/17/2015 Torder Time 05:34 PM Order Type	Order Date 3/17/2015 Time 05:34 PM Order Type M 🔍 💯 Manufacturing						
Customer No. 01-ABF 🔍 🖹 American Business Futures							
W.O. Status E Entered Job Site Code 2 4 American Business Futures Job Site Contact John Quinn 4 Nature of W.O. 4 4 Prefer. Machine M002 4 Item Number TEST_BILL 4 Lot/Serial No. 4 4 Plant Code 4 4 Schedule Date 3/17/2015 Time 05:34 PM Due Date 3/17/2015 Time 05:34 PM	Mold Number 002 🔍						
Cust P0 Priority Code	Production Lot/Batch Size 5 Production Increment 2						
Quic <u>k</u> Print	Accept Cancel Delete						

Routing Steps on Work Order Printing

Work Order Printing

The **Print Additional Bill Item Routing** option added on the **Work Order Printing** program allows for printing the information about the steps of Bill Item Routing.

🔓 Crystal Work Orde	er Printing		?×
Form Code	STANDARD	6	S <u>a</u> ve -
Description	Work Order Quick Print		
Number of Copies	1 Collated	Multi-Part Form Enabled	<u>Multi Part</u>
Print Additional Bill Iter	m Routing 🔽		
Adobe PDF		gnment <u>P</u> rint Pre <u>v</u> ie	w <u>S</u> etup

Select the **Print Additional Bill Item Routing** checkbox to print the information of the Routing assigned to the Bill Item.

After Work Order report is printed the Work Order Additional Printing is opened.

Vork Order Printi	ing					
	5			MPP	Demo Compan	y (MPP)
Work Order Nu Work Order Customer Nu	Date: 4/3/20	015		^o referred Machine: W.O. type: Nature of W.O.: W.O. Status: W.O. Priority:	М	
American Business Fu RacineWarehouse 5411 Kendrick Place Racine, WI 53120	utures		American Business Futu 2131 N. 14th Street Suite 100 Accounting Department Milwaukee, WI 53205-1			
W.O. Descrip	tion: MFG Pro	oduct				
Dispatch No . D)ispatch Date	Dispatch Machine				
0001 4	1/3/2015	Machine #2 M2				
TEST_BILL 1001-HON-H252LF 2480-8-50 BEL10-VIP LAB1	<	ltem HON 2 DRAWER LETTER FLE W/ LCK DESK FILE 8" CAP 50 HON 4 DRAWER LETTER FLE W/O LK Machine#1 Labor	6.00	84.000 87.000 33.902 131.000 0.000	0.000 0.000 0.000 0.000 0.000	168.00 174.00 203.41 524.00 0.00
				Dispatcl	n Total : 1	,069.41
Dispatch No . D)ispatch Date	Dispatch Machine				
0002 4	//3/2015	Machine #2 M2				
TEST_BILL 1001-HON-H252LF 2480-8-50 BEL10-VIP LAB2	<	ltem HON 2 DRAWER LETTER FLE W/ LCK DESK FILE 8" CAP 50 HON 4 DRAWER LETTER FLE W/O LK Machine#002 Labor	6.00	84.000 87.000 33.902 131.000 0.000	0.000 0.000 0.000 0.000 0.000	168.00 174.00 203.41 524.00 0.00
				Dispatcl	a Total :	.069.41

🔓 Work Order Additional Printing	<u>?</u> ×
MATERIAL PRODUCTION PLANNING WORK O	RDER ADDITIONAL PRINTING
	<u>Print</u> Pre <u>v</u> iew <u>S</u> etup

The **Work Order Additional Printing** prints information about the Bill Item, the Routing assigned to it and the steps of Routing.

Here is an example of printout for a **Routing Number** marked as **Steps by Dispatch** in the **Routing Maintenance**.

👐 Work Order Additional Printing					<u> </u>
🛃 🍜 🖹 😰 📴 💌 🗠		/1 船 🔍 🛨			×
Main Report					
					<u> </u>
Work Order Additional F	Printing				1
	Thrung			MPP Demo Company (MPP)	
Work Order Number:	0000310				
W.O. Description:	MFG Product				_
Item Code:	TEST_BILL				
Routing Number :	TEST_MFG				
Steps By Dispatch :	Yes				
W. O. Type: Nature of W.O.:	М				
Routing W.O. Desc.:	MFG Product				
StepNumber: 0010	Manufacturing: Yes	Labor Code: LAB1		M001	1
StepNumber: 0020	Manufacturing: Yes	Labor Code: LAB2		M002	
StepNumber: 0030	Manufacturing: Yes	Labor Code: LAB1	Machine Code:	MUU2	
•					
Current Page No.: 1	Total Page I	No.: 1	Zoom Fa	ctor: 100%	

This is an example of printout for a Routing Number not marked as **Steps by Dispatch** in the **Routing Maintenance.**

		dditional Printing								
5	5 h (?) 💾 н. ч.) н. 1	/1 🔐	• 🔍 - 🛛						×
	Report									
	1									
	Work Ord	ler Additional Printing					MF	P Demo Co	ompany (MPP)	
	Work	Order Number: 0000163								
	w.	O. Description: Test WO								
		Item Code: BEL10								
	Ro	outing Number: EQP_MFG	Equip	ment / AC N	IFG					
	Steps By Dispatch: No							_		
	Step No.	Description	Req. Hours			Nature Of W.O		Labor Code	Machine Code	
	0010	Pull Product	3.00	Yes	S		No			
	0030	Assemble Case / Enclosure jjjjjjjjjjjj	5.00	Yes	м	ASSEMBLY	No			
	0050	Install Motor / Pump	4.00	Yes	м	INSTALL	No			
	0070	Install Temp Control / Heat Pa	4.00	Yes	м	INSTALL	Yes	LAB1	M1	
	0080		0.00	No			No			
										الخور
Curren	t Page No.: 1		Total Page No.: 1			Zoom F	actor:	100%		

Import Routings from W/O Module

The **Import Routings from W/O Module** utility program has been added under the **Material Planning and Production Management-> Utilities** menu to allow importing the Routings setup in W/O module of any Company (with W/O module activated) to the Material Planning and Production Management-> Routing Maintenance.

se Import Routings	(MPP) 9/16/2	015		_ 🗆 🗡
Skip Existing Routin Import Step Extende		✓✓		
Import File Name				
			Proceed	<u>C</u> ancel

Skip Existing Routings – is defaulted to checked. **Import Step Extended Description -** is defaulted to checked.

Import File Name - it is necessary to select the WOCXXX.soa file (where XXX is the Company code) from any Company with W/O module activated and having Routings setup.

sage)	Import Routings	(MPP) 9/17/2	015		_ 🗆 X
	Skip Existing Routin Import Step Extende	_	✓		
	Import File Name	D:\MAS\MAS5	10\MPF	P\New\PU5\MAS90\MAS_XYZ\W0XYZ\\	× 🖻 📗
				Proceed C	ancel
sage	5age 100 ERP		×		
G	Import succes	ssfully completed			
	•	<u>j</u> K			