

# For Sage 100 ERP 2013

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## **Installation Instructions and Cautions**

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

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

**THIS IS AN IMPORTANT CAUTION:** If you have Custom Office installed, **and** if you have modified any Sage 100 ERP screens, you must run **Customizer Update** after you do an enhancement installation.

But wait! BEFORE you run Customizer Update, it is very important that you print all of your tab lists. Running Customizer Update will clear all Tab settings; your printed tab list will help you to reset your Tabs in Customizer Update. Custom Office is installed on your system if there is an asterisk in the title bar of some of the screens. The asterisk indicates that the screen has been changed.

Ň	🎆 * Sales Order Entry (111) 06/12/2006					
	Order Number	Q.	🛃 🖪 🤇			
	<u>1</u> . Header	<u>2</u> . Address	<u>3</u> . Lines	: <u>4</u> . Totals		
	Order Date		Order	г Туре		
	Customer No.		2. E1			
				<u>Ship To Addr</u>		
	Ship Data			<u>Terms Code</u> Shin Via		

An *asterisk* in a window's title bar indicates that the screen has been modified. This means that **Custom Office** is installed.

Follow all the instructions on this page before you run **Customizer Update**!

### **Registering IIG products**

IIG Enhancement should be registered to be able to use it. If registration is not performed, the enhancement will work in a demo mode for a limited time period. The registration can be still done during the demo period.

Select the **IIG Product Registration** program under the **Library Master Setup** menu of the Sage 100 ERP.

If this option is not listed under the Library Master Setup menu, go to the main menu, and select **Run** from the **File** menu. Type in SVIIGR and click **OK**.

🔓 IIG Master Developer En	hancement Re	gistration			? _ 🗆 🗙
Registered Customer IIG					
-Registration Information Reseller Name					
Serial Number	1111111				
Customer Number	2222222222				
User Key	33333333333333	3333333			
Product Key	55555 555	55 55555	55555 55555		
Enhancement	Level	Release Date	Serial Number	Unlocking Key	<u> </u>
IIG Enhancement	5.00			BBBBBB	Undo
Enhancement	Level	Release Date	Serial Number	Unlocking Key	Status
IIG Enhancement	5.00		ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	. BBBBBB	Invalid
•					Þ
Print Registration Form					
					IIG TST 5/24/2013

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	2
Enable ODBC Security within Role Maintenance	
	J

### Role Maintenance

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

🚟 Role Maintenance (MPP) 7/9/2014					
Role	SUPER		0 0 00	Copy Role	
Description	Super role				
<u>1</u> . Tasks	2. Security Events 3. M	Module Options	<u>4</u> . SData Securit	ty] <u>5</u> . ODBC Security]	
	ed Assets eneral Ledger ventory Management b Cost orary Master aterial Production Planning Explorer View I Inquiry Maintenance/Data Entry Miscellaneous Tasks Reports/Forms Setup Options aterial Requirements Planning				
		Accept	<u>C</u> ancel		

## Introduction

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

It is necessary to specify the **Work Order Type** and the **Default W.O Customer** in the **Material Planning and Production Setup** screen.

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.

Material Planning and Production Setup (MPP) 7/	9/2014 ? 💶 🗙
<u>1</u> . Main <u>2. Entry</u> <u>3</u> . Line Entry	
Time entry drop box in Dispatch Data Entry       15         Use Sort File in Quick Dispatch       0000233         Next Automatic Work Order Number       00000233         Next Automatic Contract Number       000000000	Receiving Cost Write Back for  Standard Cost  FIFO/LIFO  Present Sales Kit as a Set of Regular Items Item Contract Instead Of Order Contract
Next Automatic Template Contract Number 00000001  Default Values Work Order Type M Q Manufacturing	Retain Work Order History       Image: Constraint of the start of the
Dispatch Status (Quick Entry) 0 🔍 Open Close Dispatches into the Sales Order 💌	Default W.O. Customer 01-SHEPARD
Don't prompt if machine is not setup with the required skill Don't prompt if machine is busy during the scheduled time	set
	Accept Cancel

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 theDispatch Header populated with respective Sales Order line Item Promised Date.

Material Planning and Production Setup (MPP) 8/8/20	114 <b>? X</b>
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	Dispatch Starting Date/Time from Scheduled First 💌
	First Labor Hours from Dispatch Dates/Times
Contract Audit	Allow Use of Overtime Calculation for Labor
Contract Changes to Track None	Apply Dispatch Date/Time to Labor Lines None
Track Additions in Detail	W0 Due Date from S0 line Promise Date
	Dispatch Ending Date from SO line Promise Date
Job Cost Posting	
Default Account	r
J/C Cost Code Segment for Machine Postings	ne 🔽
	Accept Cancel

### 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) 7/9/2014	? _ 🗆 🗙
Machine Code Machine Name ABV Name	M001 -, N	Molds
Labor Cost Plant Code	.00 UNION 🔍 Union city	Active 🔽
	Accept	<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:

58	PMachine Code	List				
ſ	Machine Code	Machine Name	ABV Name			
	A1 M001 M002	Machine 41 Machine #1 Machine #2	M1 M2			
	Fjiters	ne Code 🛛 💌	Begins with	Select	Cancel	
F	ound 3 records					

### Plant Code Maintenance

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

🔓 Plant Mainte	📽 Plant Maintenance (MPP) 7/9/2014 🏾 🔋 💷 🗙					
Plant Code	UNION 🗁 🖬 🖉 🕨 🕅					
Description	Union city					
Default Machi	ne Code M001 🔍 Machine #1 M1					
	<u>A</u> ccept <u>C</u> ancel <u>D</u> ela	te 🔒 🕜				

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

sag	Plant Code	List				<u> </u>
	Plant Code PL1 UNION	Description Plant 1 Union city		Machine Co A1 M001	de Name Machine A1 Machine #1 M1	
	Search Pla Filters	nt Code	Begins with			<u>F</u> ind
C	C <u>u</u> stom				Select Cancel	180
F	ound 2 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).

PInventory Management Options (MPP) 7/9/2014				
1. Main 2. Additional 3. Entry 4. Printing				
Require Multiple Warehouses Reorder by Warehouse Default Warehouse Code MRP Warehouse Code MRF Q	Inventory Period Base Inventory Periods On Calendar Months Current Calendar Year Current Period 03			
Segment Substitution G/L Segment for Whse Postings Location	Enable Warranty Tracking			
Track Warehouse Transfers as Issues         Calculate Commission by Inventory Item         Include in Quantity Available	General Ledger  Job Cost			
	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) 7/9/2014	? _ 🗆 🗙
Warehouse Code	000 1.4 4 6 61	
Description	CENTRAL WAREHOUSE	
Name	ABC CENTRAL WAREHOUSE	
Address	1101 W. MAC ARTHUR BLVD.	
ZIP Code	92626	
City	COSTA MESA State CA	
Country	Q	
Telephone	Ext	
Fax		
E-mail Address		
Contact		
Include In MRP		J.
Post to Location	03 Central Warehouse	
	<u>Accept</u> <u>Cancel</u> <u>D</u> e	elete

### 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) 7/9/2014
Item Code BEL2	
Description HON	4 DRAWER LETTER FLE W/O LK
<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       0.0000       Make     Inventory Cycle
Price Code Default Whse Planning Code	STD     STANDARD QUANTITY PRIC     Primary Vendor     01-AIRWAY     Airway Property       000     CENTRAL WAREHOUSE     Warranty Code     Q       001     MFG Priority Code     MFG Code     Made to Stock V     Item Molds Machine
Sales	
Retail Price	131.000 🗐 Standard Cost 82.500 🗐 Item 82.500
Standard Price	131.000 🚔 Average Cost 82.500 Allocated .000 🚍
Last Sold	Last Receipt 3/5/2013 📅 Total 82.500 🗐
Quantities	
	iption On Hand On PO On SO On Bk Ord Committed On WO Reg for WO Av
000 CENT 001 EAST	RAL 5.00 25.00 200.00 .00 200.00 30.00 .00 WA00 124.00 272.00 .00 272.00 .00 .00 .00
	₩₩₩
<u>()</u>	Accept Cancel Delete 🔒 🕢

**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.

**MRP 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.

Item Item Co	Molds Machine	: (MPP) 7/9/	2014	HON 4 DRAV	VER LETTER FLE W/O L	 .K
	Quick Row	1 🔁				G₽.
	Mold Number	Modified	Prefer Code	Machine Code	Qty Produced Per Hour	Queue Time 📖
1	002		1	M002	5.00	
2	001		2	M001	.00	Mold Info
3					.00	.00
4						
					Accept <u>C</u> a	ancel <u>D</u> elete

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

ब्ख्य Mold In	fo (MPP) 7/9/2	2014					<
Item Code	BEL25				Mold Num	nber 002	
Multiple It	ems 🔽 🤅	Slave		Bin Loc	ation		
Comment						A V	
Show Al	I 🗌						
	Work Order No.		Item Co	ode			
					Accep	t <u>C</u> ancel	ļ.

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:

saga	Mold In	fo (I	MPP) 7/9	9/2014						_0	×
I	tem Code		BEL25-V	IP			Mold	Num	ber	002	
į	Multiple Ite	ems		Slave		Bin Loo	ation				
(	Comment									<b>A</b>	
					 					-	
ſ	Show All										
			ik Order N	lo.	Item C	ode					וור
							A	cept	T	<u>C</u> ancel	ר
							_	_			-11

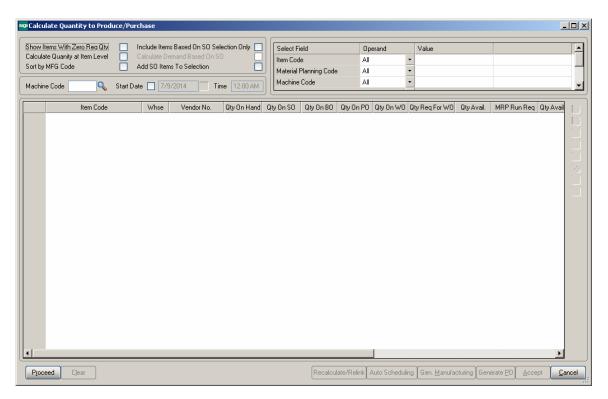
The Multiple Items flag (indicating that this mold is used by more than one item) impacts quantity calculation in the Calculate Quantity to Produce/Purchase program. Refer to <u>Processing Master/Slave Items</u> for details.

## **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.

	Code 🧠 Start I	Date 🔲 7/	10/2014 <b>Tin</b>	ne 12:00 AM	Machine	Code	Al	•				
	Item Code	Whse	Vendor No.	Qty On Hand	Qty On SO	Qty On BO	Qty On PO	IQtyOn WO 0	ty Req For WO	Qty Avail.	MRP Run Req	Qty Avail
1 1	1001-HON-H252LK	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	6,348.00	
2 1	1001-HON-H254	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	1,816.00	
3 2	200-230	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	1,816.00	
4 2	230-182-Z	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	1,362.00	
5 2	2480-8-50	MRP	01-UNITED	.00	.00	.00	.00	.00	.00	.00	3,632.00	
6 6	6655	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	25,392.00	
7 7	720-100	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	20.00	
8 <mark>B</mark>	BEL10	MRP	01-CONT	.00	4.00	.00	.00	.00	.00	4.00-	.00	
9 B	BEL10-VIP	MRP	01-CONT	.00	6.00	.00	.00	.00	.00	6.00-	4.00	
0 8	BEL25	MRP	01-AIRWAY	.00	450.00	.00	.00	.00	.00	450.00-	.00	
18	BEL25-VIP	MRP	01-AIRWAY	.00	.00	.00	.00	.00	.00	.00	450.00	
2 F	PLS-TRAY	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	454.00	
13 T	TIP	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	450.00	
4 T	TIP-XI	MRP	01-CONT	.00	.00	.00	.00	.00	.00	.00	4.00	

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
- 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.
- **Recommended Qty** 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 **Week Shift Maintenance**. 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.

Calculate Quantity to Produce/Purchase Show Items With Zero Req Qty Calculate Quanity at Item Level Calculate Demand Based On SO Calculate Quanity at Item Level Calculate Demand Based On SO Calculate Quanity at Item Level	Select Field Item Code Material Planning Code Machine Code	Operand Equal to • All • All •			
Item Code Whee Ity Req For W Qty Avail. MRP Run Req	jły Avail MRP Rur Reorder Met	nod Reord. Qty	EOR Max Qıy	Calc. Demand Mold	Number
Proceed Clear	Recalculate/Re	link Auto Schedulin	g Gen. <u>M</u> anufacturing	Generate <u>P</u> O <u>A</u> ccep	t <u>C</u> ancel

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

chine	Code	Start Date	7/10/2014	Tim	e 12:00 AM	Material Plannir Machine Code	-	Al	•		R.	
	Item Code	Whse	Ity Req For W	Qty Avail.	MRP Run Req	) ty Avail MRP Run	Reorder Metho	d Reord. Qty	EOR	Max Qty	Calc. Demand	Mold Number
	1001-HON-H252LK	001	.00	.00	35,640.00	35,640.00-	Max Stock Le	• 5.00	10.00	20.00	35,660.00	001
-	1001-HON-H254	001	6376.00	6,426.00	11,880.00		Max Stock Le	_	20.00	50.00	5,504.00	
:	200-230	001		6,439.00	11,880.00		Economic Qty	_	2,000.00	.00	7,441.00	
_	230-182-Z	001		1,966.00	8,910.00		Economic Qty		1,000.00	.00	7,944.00	
_	2480-8-50	001	.00	165.00	23,760.00		Max Stock Le	_	600.00	800.00	24,395.00	
_	6655	001	.00	2.00	142,560.00		Max Stock Le		30.00	70.00	142,628.00	
_	720-100	001	20.00-	1,015.00	14,850.00		Economic Qty	_	.00	.00	13,835.00	
_	BEL10	001	.00	2,970.00-	.00		Economic Qty	_	.00	.00	2,970.00	002
_	BEL10-VIP	001	143.00	147.00	2,970.00		Max Stock Le		.00	100.00	2,923.00	
-	PLS-TRAY	001	143.00	163.00	2,970.00		Economic Qty	_	.00	.00	2,807.00	
1	TIP-XI	001	143.00	145.02	2,970.00	2,824.98-	Max Stock Le	• .00	.00	100.00	2,924.98	

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 enable 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	try (MPP) 7/10/2014	<u>- 🗆 ×</u>
Work Order No. 0	0000238 🗇 🔄 🚍 📢 🗳 🕨 Make step	De <u>f</u> aults
<u>1</u> . Header	2. Address 3. Dispatches User useriig	
Order Date 77	/10/2014 📅 Order Time 02:57 PM <u>Order Type</u> M 🔍 😥 Manufacturin	g
Customer No. 01	1-SHEPARD 🔍 🛃 Shepard Motorworks	
W.D. Status Job Site Code	E Chtered	
Job Site Contact	Alan Shepard	
Nature of W.O.	Q	
Prefer, Machine	A1 🔍 Machine A1 Mold Number 002	۹ ا
Item Number	BEL10 🔍 🔆 🕅 🐼 Item	
Lot/Serial No.		
Plant Code	Q	
Schedule Date	7/10/2014 Time 02:57 PM	
Due Date	7/10/2014 Time 02:57 PM	
Cust PO		
Priority Code		
Quic <u>k</u> Print	Accept Cance	el <u>D</u> elete

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

SOF Work Order Entr							
			🜒 👂 🕅 Make step )	_		₽	De <u>f</u> aults
<u>1</u> . Header	2. Address	3. Dispatches		User	useriig		
Dispatch No.	Dispatch Date	Machine	Machine Name	Status			8
0001 7	/10/2014	A1		Open			
Quic <u>k</u> Print					Accept	<u>C</u> ancel	Delete

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

Work Or Pispatch <u>1</u> . Hea		000238, 001 <sup>-</sup> , <u>[-1</u> <u>2</u> . Lines	14 4 <b>•</b> •1	Make step	User userii	g
	N 🇞	•	Quick Row	2 🛃		
	lti	em Code	Ordered	Unit Price	Extension	Comment 🔺
2	BEL10-	/IP 🔍	2,970.00	117.900	350,163.00	
3	<b>*</b>		2,970.00	121.500	360,855.00	
4			2,970.00	117.900	350,163.00	
5	TIP-XI /LAB2		5,940.00	.000	25.00	
6			.00	.000	.00	
•						
Desc	cription	HON 4 DRAW	ER LETTER FLE '	w/0 LK 🔺		
Ware	ehouse	001				
Unit Of	Measure	EACH				
Price	e Level			-		
						Total Amount 1,285,738.00
uic <u>k</u> Prir	nt		Manufacturing		Labor	Accept Cancel Delete

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	tems With Zero F te Quanity at Iter MFG Code		Cal	lude Items Based On Iculate Demand Based d SO Items To Selecti	d On SO	Iten Mai	ect Field Code erial Planning (	Code	Operand All All	Value		<b>Q</b>		
achin	e Code	<b>Q</b>	Start Date	7/11/2014	Time 12		chine Code		All					
	Item Code	Whse	Qty Avail.	MRP Run Req Jty A	wail MRP Rur	Reorder Method	Reord. Qty	EOR	Max Qty	Calc. Demand	fold Numbe	Machine Code	Include	-
38	720-100	MRP	50.00-	150.00		Economic Qty		.00		200.00				
39	8953	001	555.00	.00		Max Stock Le <sup>,</sup>		2,000.00		3,445.00				
40	8971	001	170.00	.00		Max Stock Ler			2,000.00	1,830.00				
41	8972	001	27.00	.00		Max Stock Ler		3,000.00		4,973.00				
42	ARS-9101	002	24.00	.00		Max Stock Ler		20.00	50.00	26.00				
43	ARS-9301	001	9.00	.00	9.00	Max Stock Ler	10.00	20.00	50.00	41.00				
44	BEL10	000	3.00	.00	3.00	Economic Qty		.00	.00	.00	002	A1		
45	BEL10	001	32.00	.00	32.00	Economic Qty		.00	.00	.00	002	A1	Ø	
46	BEL10	MBP	.00	.00		Economic Qty		.00	.00	.00	002	A1		
47	BEL10-VIP	001	68.00	.00		Max Stock Ler		.00	100.00	32.00				
48	BEL10-VIP	MBP	30.00-	.00		Economic Qty		.00	.00	30.00				
49	BEL25	001	102.00	.00	102.00	Max Stock Let	.00	.00	100.00	.00	002	M002		
50	BEL25	MRP	.00	.00	.00	Economic Qty	.00	.00	.00	.00	002	M002		
51	BEL25-VIP	000	140.00-	.00	140.00-	Economic Qty	.00	.00	.00	140.00	001	M001		
52	BEL25-VIP	001	122.00	.00	122.00	Economic Qty	.00	.00		.00	001	M001		
53	BEL25-VIP	MBP	.00	.00		Economic Qty		.00	.00	.00	001	M001		
54	D1000	001	352.00-	.00	352.00-	Economic Qty	.00	.00	.00	352.00				
55	D1400	001	7.00-	.00		Economic Qty		.00	.00	7.00				
56	D1700	001	4.00-	.00	4.00-	Economic Qty	.00	.00	.00	4.00				
57	D2000-C	001	2.00-	.00		Economic Qty		.00	.00	2.00				
58	GB-EL04MS-07	002	17.00	.00	17.00	Max Stock Ler	30.00	70.00	200.00	183.00				-

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	×
(j)	Recalculate/Relink is required as changes have been made on the lines once linked.	

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

alcula ort by	ems With Zero F te Quanity at Iter MFG Code e Code	n Level	Cal	Iude Items Based On S Iculate Demand Based d SO Items To Selectio	On SO	00 AM	ltem Mate	ct Field Code rial Planning C nine Code	Code	Operand All All All	Value		<b>Q</b>			
	Item Code	Whse	Qty Avail.	MRP Run Reg 2ty Av	/ail MRP Rur	Reorder M	ethod	Reord. Qty	EOR	Max Qty	Calc. Demand	fold Numbe	Machine Code	Include		
40	8971	001	170.00	.00	170.00	Max Stock	Le 🔻	600.00	1,000.00	2,000.00	1,830.00					
41	8972	001	27.00	.00	27.00	Max Stock	Le 🔹	2000.00	3,000.00	5,000.00	4,973.00					
42	ARS-9101	002	24.00	.00	24.00	Max Stock	Le' 🔻	10.00	20.00	50.00	26.00					
43	ARS-9301	001	9.00	.00	9.00	Max Stock	Le' 🔻	10.00	20.00	50.00	41.00					
44	BEL10	000	3.00	.00	3.00	Economic (	lty 🔻	.00	.00	.00	.00	002	A1			0
45	BEL10	001	32.00	.00	32.00	Economic 0	lty 🝷	.00	.00	.00	40.00	002	A1			1
46	BEL10	MRP	.00	.00	.00	Economic 0	lty -	.00	.00	.00	.00	002	A1			
47	BEL10-VIP	001	68.00	.00	68.00	Max Stock	Le <sup>,</sup> 🔹	.00	.00	100.00	32.00					
48	BEL10-VIP	MRP	30.00-	.00	30.00-	Economic (	lty 🔹	.00	.00	.00	30.00					
49	BEL25	001	102.00	.00	102.00	Max Stock	Le 🝷	.00	.00	100.00	40.00	002	M002	<b>⊻</b>		
50	BEL25	MRP	.00	.00	.00	Economic 0	lty 🝷	.00	.00	.00	.00	002	M002			
51	BEL25-VIP	000	140.00-	.00	140.00-	Economic (	λty ₹	.00	.00	.00	140.00	001	M001			
52		001	122.00	.00		Economic (		.00	.00	.00	.00	001	M001			
53	BEL25-VIP	MBP	.00	.00	.00	Economic (	λty ₹	.00	.00	.00	.00	001	M001			
54	D1000	001	352.00-	.00		Economic (		.00	.00	.00	352.00					
55		001	7.00-	.00		Economic (		.00	.00	.00	7.00					
56		001	4.00-	.00		Economic (	· · ·	.00	.00	.00	4.00					
57	D2000-C	001	2.00-	.00		Economic (		.00	.00	.00	2.00					
58	GB-EL04MS-07		17.00	.00		Max Stock		30.00	70.00	200.00	183.00					
59	GB-EL04MS-25		24.00	.00		Max Stock	_	60.00	200.00	400.00	376.00					
60	GB-EQ380-10-ł	001	59.00	.00	59.00	Max Stock	Le <sup>,</sup> •	100.00	300.00	400.00	341.00				-	

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

Work Order No	
Dispatch No. 00	001        , []           2. Lines         3. Production   User Usering
Dispatch Date	7/23/2014 🛅 Dispatch Status 0 🔍 🔒 Open
Starting Date Ending Date	7/23/2014         Starting Time         09:00 AM         Commit Quantity         ✔           7/26/2014         Ending Time         02:00 AM
<u>Machine</u> MFG Item Code	M002 🔍 Machine #2 M2 Mold Number 002 🔍 BEL25 Lot/Serial No.
Quic <u>k</u> Print	Manufacturing Labo <u>r</u> Accept <u>C</u> ancel <u>D</u> elete

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

oer 002
4
]
<u>C</u> ancel

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

ब्ख्य Mold Ir	nfo (M	MPP) 7/3	1/2014				<u>- 🗆 ×</u>
Item Code	e	BEL25			h	fold Number	002
Multiple It	tems		Slave		Bin Locati	ion	
Comment							<b>A</b>
							-
							]
Show A							
		rk Order N		Item Co	ode		
1		0238	BEL10				
2	-	0240	BEL10				
3	-	0248	BEL25				
4	-	0255	BEL25				
5	000	0257	BEL10				
						Accept	Cancel

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:

see Sage	100 ERP	×
ţ)	Mold Number "001" is planned for the following Item/W0(s): BEL10-VIP_0000242 BEL10-VIP_0000244 BEL25-VIP_0000246 BEL25-VIP_0000250 W0 for item "1001-H0N-H252LK" will be scheduled after completion of planned W0 for mold "001". Do you want to bypass creating W0(s) for mold "001"?	
	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

\lambda Options for User - 'IIG'	<u>×</u>
Options Type 000 💌 Description S	tandard
	Fiel <u>d</u> s <u>V</u> iew
Show on Startup Toolbar Grid Lines Blanks	View Date Range Current Week
Show as Column Date	Unassigned Machines
Color Use color for W.O. in Color Bars Use color for Dispatches in Color Bars Show Color Bars Over Text	Sort of the same duplicate by W.O Number  Date/Time Range  Show Items
	<u>O</u> k <u>Cancel</u> IIG MPP 08/27/2013

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

👶 Options for User - 'IIG'		×
Options Type 001 💌 Des	cription Shift1	
Eilters	Fiel <u>d</u> s	⊻iew
W.O Field Value1	Show	W.O. Number 🔽 📝 🝪
Customer No Field Value2	🔽 Show	Division - Customer Number 💌 📝 👸
W.O. Status - Field Value3	🔽 Show	W.O. Status 💽 🛃 😵
Dispatch No Field Value4	🗹 Show	Dispatch Number 🔄 📝 😵
Disp. Status - Field Value5	Show	Dispatch Status 🔄 📝 😵
Time Interval 8 hours Open Time Close Time 30 minutes		Past Due W.O. 谢
20 minutes 20 minutes 10 minutes None		<u>D</u> k <u>C</u> ancel
		IIG   MPP   09/12/2013

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							
🛃 🔮 🍌 - 🔲 🎘 🥩 🕅 🚳 🤰 🗉	lse Shift Hours	s From	▼ Shift	▼ T	ime	Au	to Scheduling
		Machine A1	Machine A1	Machine A	1 Machine	A1 Machir	ne #1 M1
Load 07/08/14	11:00 PM					Start Date End Date	No 0001 e - 04/01/1 e - 07/09/14 rval - 2387h
07/03/14	07:00 AM						
	03:00 PM						
07/10/14	07:00 AM	Dispatch No 0001 Start Date - 07/10/1	Dispatch No Start Date - 07/10/1 End Date - 07/10/14		0001 Dispatch No. /10/1 Start Date - 0	 )7/10/1 7/10/14	
		•					<u> </u>
W.O. Number Description		Entry Da	te/TimeScheduk 014 14:58 07/10/2	ed Date/Time	Status Color	W.O.	Dispatch
0000238 Make step S0 Number W.0. Type W.0. Status	0		b Site Code Contract	· ·	Closed		Dispatch
Manufacturing Entered		1-SHEPARD		rtambor	Entered		
Nature of W.O. Pref. Machine Item Number	Lot/	Serial Number	Plant Code	Priority Code	Hold A/R		
A1 BEL10					Open		NO USE
Disp. No. Disp. Date Machine Code Dispatch Status 0001 07/10/2014 A1 Open	Starting Date	/Time Ending Date. 14:57 07/10/2014			Updated Ropt. Wait. for Ropt		NO USE NO USE
Joon Jownovzore Jwi Jopen	10//10/2014	J 14.37 J 0771072014	jiwar ji o nouisi		Walk for hept		07/10/2014

**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					
🛃 🔮 🍰 - 🔲 🎘 🥩 🕅 🕅	🖞 🥊 Use Shift Hour	s From Monday 💌	Shift 2	Time 01:00 PM	05:30 PM Auto Scheduling
		Machine	#1 M1	Mach	ine #2 M2
	07/09/14 01:00 PM				
	07/10/14 01:00 PM	W.O 0000247 Dispatch No Start Date - 07/10/14 16:01 End Date - 07/10/14 16:01 Time Interval -		W.O 0000248 Dispatch No 0001 Start Date - 07/10/14 09 End Date - 07/22/14 11: Time Interval - 290h58m	
	07/11/14 01:00 PM	_			
	07/12/14 01:00 PM				
		•			
W.O. Number Description	1	Entry Date/Time			
0000248 Make step			6:24 07/10/2014 16:		W.O. Dispatch
			Code Contract Number	Closed	
Manufacturing E Nature of W.O. Pref. Machine Item Nu		11-SHEPARD Serial Number PI	ant Code Priority Co	Entered de Hold A/B	
M002 BEL25			Anic Code Filolity CO	Open	NO USE NO USE
J		/Time Ending Date/Time	Dispatch Interval	Updated Ropt.	NO USE NO USE
0001 07/10/2014 M002 Ope		09:00 07/22/2014 11:58			NO USE NO USE
				IIG	MPP 07/10/2014

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.

**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 Board		
Options View About		
📶 🔕 🕹 - 🔲 🎉 🥩 🔅 🛤 🔞 🧜 Use Si	hift Hours From 🗾 💌 Shift 📃 💌	Time Auto Scheduling
	Machine #1 M1	Machine #1 M1
Item Code         QOH         Q-REC         W           6655         0         1440         07/11/14	03:00 PM	
720-100 0 200 M BEL10 0 30 M	11:00 PM	
	W. 0, - 0000246 Dispatch No 0001 Stat Date - 07/11/14 09:00 End Date - 07/14/14 09:29 Time Interval - 72h29m	
	03:00 PM	
W.O. Number Description	Entry Date/Time Scheduled Date/Tim	Status Color
0000246 Make step	07/10/2014 16:01 07/10/2014 16:01	
SO Number W.O. Type W.O. Status	Customer Number Job Site Code	Closed
Manufacturing	01-SHEPARD	Entered
Nature of W.O. Pref. Machine Item Number	Lot/Serial Number Plant Code Priority Code	
M001 BEL25-VIP		Open NO USE NO USE
	arting Date/Time Ending Date/Time Dispatch Interval 7/11/2014 09:00 07/14/2014 09:29 72 hours 29 minutes	Updated Rcpt. NO USE NO USE Wait, for Rcpt NO USE NO USE
		IIG MPP 07/10/2014

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 07/11/14 03:00 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.

窳	Option 9	Selection					? _ 🗆 ×
В	ill Numbe	er BEL10	lte	m			
R	levision	000					
							<b>.</b>
		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 🕜

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

see Bill of Materials Maintenance (MPP) 7/10/2014		
Bill Number     BEL10       Revision     000 ->       Bill Type     Standard         Description 1     Iten	12.5 14 4 D DI 📋 Copy From	More
<u>1</u> . Header <u>2</u> . Lines	⊖ ⊂Option Categories	
Drawing Number	1 Counter Top	Required
Drawing Revision	2 Cabinet Finish	Required
Routing Number R1 🔍	3 Door Styles	Required
Current Revision 000 🔍	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
	Accept Cancel Del	ete 🔒 🕢

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.

criptio	Number R on R	louting 1	j-, 14 4 D					 ۱۲۰	Copy from.
	Step No.	Description	Req. Hours	Gen. W.O.	W.O.Type	Nature Of W.O.	Mfg	Labor Code	Machine
1	0010	Make step	.00	<b>I</b>	м		Z	LAB2	M001
2	0020	Grinding	.00	4	Р				
3			.00						

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

See Work Order Entry (MPP) 7/10/2014	<u>_                                    </u>
Work Order No. 0000252 🖓 📋 😭 📢 🗳 🕨 Make step 🕞	e <u>f</u> aults
<u>1</u> . Header <u>2</u> . Address <u>3</u> . Dispatches User useriig	
Order Date 7/10/2014 Time 05:50 PM Order Type M 🔍 🎲 Manufacturing	
Customer No. 01-SHEPARD 🔍 🗟 Shepard Motorworks	
W.O. Status       E       Children         Job Site Code       Q         Job Site Contact       Alan Shepard         Nature of W.O.       Q         Prefer. Machine       A1         Machine A1       Mold Number         Item Number       BEL10	
Lot/Serial No. Plant Code Schedule Date 7/10/2014 Time 05:50 PM Due Date 7/11/2014 Time 03:00 PM Cust P0 Priority Code	
Quick Print Accept Cancel	<u>D</u> elete

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

See Work Order Entry (MPP) 7/10	)/2014			_ 🗆 🗶
Work Order No. 0000252	ELS N	🌒 👂 🕅 Make step		De <u>f</u> aults
<u>1</u> . Header <u>2</u> . Address	<u>3</u> . Dispatches		User	useriig
Dispatch No. Dispatch Date	Machine A1	Machine Name	Status	2 Dimetelaine (Material Labor (Transaction
0001 7/10/2014	AI	Machine A1	Open	Dispatching/ Material Labor/ Transaction
Quic <u>k</u> Print				Accept Cancel Delete

Press the Dispatching button to open the Dispatch Data Entry:

🔓 * Dispatch Data Entry (MPP) 7/10/20	14		
Work Order No         0000252         1         1         4           Dispatch No.         0001         1	Make step	User useriig	
Dispatch Date 7/10/2014	Dispatch Status	0 🔍 🔒 Open	
Starting Date         7/10/2014           Ending Date         7/10/2014	Starting Time Ending Time	05:50 PM 💌 Comm 05:50 PM 💌	t Quantity 🔽
Machine A1 Q Machin MFG Item Code BEL10	ne A1	Mold No.	lumber 002 Q
Quic <u>k</u> Print Manufac	turing	Labo <u>r</u> <u>A</u> ccept	<u>Cancel</u> <u>D</u> elete

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.

<u>1</u> . Hea		001 [ [	<u>3</u> . Production		User userii	ig
	8 <b>H</b>	∕⊼ •	Quick Row	1 🖉		
	lte	em Code	Ordered	Bill Option Unit Price	s, Alt-B 113 Extension	Comment 🔺
1	BEL10	۹,	30.00	75.600	2,268.00	
2	BEL10-V		30.00	117.900	3,537.00	
3	PLS-TR4	¥Υ	30.00	121.500	3,645.00	
4	TIP-XI		30.00	117.900	3,537.00	
5	/LAB2		60.00	.000	25.00	
a  ▼			00	000	00	
Desc	cription	Item		<b>_</b>		
Ware	ehouse	MRP				
Unit Of	Measure	EACH				
Price	e Level			•		

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

sage	Option 9	5election					<u>? _ D ×</u>
	Bill Numbe Revision	er BEL10	Ite	m			
							<b>.</b>
		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					
	5	Tear Down & Hallaway					
						<u>о</u> к	<u>Cancel</u>

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:

Item Inquiry (	(MPP) 7/10/2014
em Code BEL1	
escription Item	
<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
<u>Product Line</u> Product Type Valuation	WF&A     WORKSTATION FURN & ACCESS     Unit of Measure       Finished Good     Weight     35       FIFO     Volume     0.0000       Sales     EACH       Anno     No. of EACH       1
Procurement	Make  Inventory Cycle B
<u>Price Code</u> <u>Default Whse</u> <b>Planning Code</b>	STD     STANDARD QUANTITY PRIC     Primary Vendor     01-CONT     Standard Container Corporation Of Usa       000     CENTRAL WAREHOUSE     Warranty Code     30 DAY     30 days from shipment       001     MFG Priority Code     MFG Code     Made to Stock V     Item Molds Machine
Sales	
Retail Price	84.000 Standard Cost 32.750 Item 2.076.243
Standard Price	84.000 Average Cost 1,952.185 Allocated .000
Last Sold	Last Receipt 8/27/2013 Total 2,076.243
Quantities	
Whse Descr	
000 CENTI 001 EAST	RAL 270.00 .00 560.00 .00 560.00 293.00 .00 4
MRP MRP v	
•	<b>&gt;</b>
<u>%</u>	

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

escription H	ON 4 DRAV	VER LETTER FLI	E W/O LK	P					
<u>1</u> . Main	<u>2</u> . Ad	lditional <u>3</u> .	Quantity	<u>4</u> . History	<u>5</u> . Trans	actions	<u>6</u> . Orders	<u>7</u> . Cost Deta	a ]
<u>Product Line</u> Product Type Valuation Procurement			ATION FURN Weight Volume Inventory Cyd	0.0000	Unit of M Standard Purchase Sales	EACH EACH	'', No. of I '', No. of I		1
Price Code Default Whse Planning Cod		CENTRAL V	QUANTITY F /AREHOUSE ority Code	Wan 2 MFG	ranty Code	•CONT ade to Order	litem	ainer Corporatic Molds Machine	
Sales Retail Price		131.000	Purch	ases lard Cost	02	.500	Last Costs Item	17	33.550
Standard Price		131.000		iaru cost ige Cost	2.471		Allocated		.000
Last Sold		131.000	_	Receipt	8/27/	_	Total	1,7	33.550
Quantities		(					<u> </u>		
	scription	On Hand	On PO	On SO	On Bk Ord	Committed	0n W0	Req for WO	Av_ 🐼
	NTRAL ST WA	245.00- 84.00	244.00 212.00	.00 5.00	.00 .00	.00 5.00	1,022.00 2,922.00	293.00 3.113.00	1
	P wareh	.00	.00	6.00	.00	6.00	10.00	34.00	
•							1		F

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.

The Quantity On WO for Bill Item is equal to the Quantity Ordered in the manufacturing dispatch.

#### 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 Entr	у (MPP) 7/10/2014	
Work Order No. 00	000254 🖓 🗋 💭 📢 🔌 🕨 🕅	Defaults
<u>1</u> . Header	2. Address <u>3</u> . Dispatches User useriig	
Order Date 7/10/	/2014 Time 06:13 PM Order Type M	💫 🎉 Manufacturing
Customer No. 01-	ABF 🧠 🥵 American Business Futu	ires
Job Site Code Job Site Contact Nature of W.O. Prefer. Machine Item Number Lot/Serial No. Plant Code Schedule Date	E Chered 2 Chereican Business Futures John Quinn C M001 C Machine #1 M1 BEL10 C UNION C Union city C C UNION C Union city C C C C C C C C C C C C C	old Number 002 🔍 n
Cust PO Priority Code		
Quic <u>k</u> Print	ĺ	Accept Cancel Delete

#### Lot Number Generation

The **Mold Number** assigned to the work order is used when genearting 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.

🔓 * Dispatch Data I	Entry (MPP) 8/8/2014	_ 🗆 🗵
Work Order No 000 Dispatch No. 000		
<u>1</u> . Header	2. Lines 3. Production User Userig	
Dispatch Date	8/8/2014 🛅 Dispatch Status 0 🔍 🔒 Open	
Starting Date Ending Date	8/8/2014         Starting Time         02:11 PM         Commit Quantity           8/18/2014         Ending Time         02:11 PM         Commit Quantity	
Machine MFG Item Code	M002 Nachine #2 M2 Mold Number 002 2480-8-50 Lot/Serial No. 2456878002 Lot/Serial Number Genera	
	Quantity on WD 5.00	
Quic <u>k</u> Print	Manufacturing Labor 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 Entry (MPP) 8/8/2014	
Production Number 0000040 🖓 🚺 🕪 🔺 🕨 📦	De <u>f</u> aults
<u>1</u> . Header <u>2</u> . Lines <u>3</u> . Production	
Production Date 8/8/2014	
Bill Number 2480-8-50 - DESK FILE 8" CAP 50 Bill Type Standard	
Revision 000 [-+]	
Quantity     5.00       Unit of Measure     EACH       Effective Date     8/8/2014	
Parent Warehouse     001     State     EAST WAREHOUSE       Component Warehouse     001     EAST WAREHOUSE       Explode Sub-Assemblies     Image: Component Warehouse       Lot Number     1/2456878002	
Accept         Cancel	

#### Production Generation

B/M Production is automatically generated upon closing the Dispatch. If Batch processing is enabled for Production Entry the B/M Production Entry Batch screen is opened upon changing the Dispatch status to "C" (Closed).

The following screen is opened with the quantity on work order defaulted to Quantity Produced. The user is allowed for entry of quantity produced

eroduction Gene	ration	×
Quantity Produced	30.00	]
	<u></u> K	):

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

eroduction Ent	ry (MPP) 7/10/2014	
Production Number	r 0000038 🖓 🔄 📢 🔌 🕨 🕅	De <u>f</u> aults
<u>1</u> . Header	2. Lines	
Production Date	7/10/2014	
Bill Number	BEL10 Ltem	
Bill Type	Standard	
Bevision		
Option Code		
Quantity	30.00	
Unit of Measure	EACH	
Effective Date	7/10/2014	
Parent Warehous Component Ware Explode Sub-Asso	shouse MRP Q MRP warehouse	
	<u>Accept</u> <u>D</u> elete	

	n Number 🚺 der 📔 🕹	1PP) 7/10/2014 000038 [-4, [-1] 14 4 D D1 Lines			Defaults.
1	rial Number	Quick Row 1	) <b>Ø</b> [Ų]		፼影は優影・
Lot/Se		Component Item Code	Quantity/Bill	Extended Quantity	Comment
1	BEL10-VIP	Q	1.00	30.00	
2	PLS-TRAY	,	1.00	30.00	
3	TIP-XI		1.00	30.00	
4	/LAB2		2.00	60.00	
5	/LAB2		.01	.15	Labor Description: Machin
6			.00	.00	
•	cription HO1	N 4 DRAWER LETTER FLE W/O LI			
	vision 000				
	ehouse MRI				
	Measure EAC		•		
<u>&gt;</u>			(	Accept Cano	el Delete 🔒 🤅

Actual Inventory and Labor information from the Work Order transaction will be 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.

em Code BEL	10			]-5 is 🖬		iii ጜ			More
escription Item				P					
<u>1</u> . Main	2. Addition	al <u>3</u> .Q	uantity	<u>4</u> . History	<u>5</u> . Tran	sactions	<u>6</u> . Orders	<u>7</u> . Cost Detai	
Product Line	WF&A	WORKSTAT		* *****	Unit of M		· .		
Product Type				« ACCESS 35	Standar		-'. 		
	Finished Goo		√eight		Purchas		No. of E		1
Valuation	FIFO			0.0000	Sales	EACH	No. of I	EACH	1
Procurement	Make	Ir	nventory Cy	cle B					
Price Code	STD 🗐 s	STANDARD Q		PBIC Prima	arv Vendor 🛛 🛛	1-CONT	Cont	ainer Corporatio	n Oflisa
Default Whse		CENTRAL WA				0 DAY		rom shipment	
Planning Code	001	MFG Priori				lade to Stock 1		Molds Machine	
-Sales	001	MEG FIIOI	Purch			Tade to Stock	-Last Costs-	MOIUS Machine	
Retail Price		84.000		lases Jard Cost	3	2.750	Item	1.9	32.550
Standard Price		84.000		age Cost		9.911	Allocated		.000
Last Sold				Receipt		/2014	Total	1.91	32.550
Quantities				Tooopt	1710	.2014			2.000
	ription 0r	n Hand	On PO	On SO	On Bk Ord	Committed	On WO	Reg for WO	Αν 🍖
		270.00	.00	560.00	.00	560.00	293.00	.00	1
001 EAST	WA wareh	39.00 30.00	.00. 00.	3,119.00 34.00	.00. 00.	3,119.00 34.00	3,112.00 4.00	.00 00.	3,0
	Monorita.	33.00	.00		.00	34.00	4.00	.00	
_									
•									•

#### 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.

🐲 * Dispatch Data Entry (MPP) 7/11/2014	
Work Order No       0000265       Image: Additional state in the step       Image: Additional state in the step         Dispatch No.       0001       Image: Additional state in the step       Image: Additional state in the step         1. Header       2. Lines       3. Production       User       usering	
Dispatch Date 7/18/2014 🛅 Dispatch Status 🛛 🔍 🔒 Open	
Starting Date     7/18/2014     Starting Time     09:00 AM     Commit Quantity       Ending Date     7/20/2014     Ending Time     07:28 PM	
Machine         M001         Machine #1 M1         Mold Number         001           MFG Item Code         BEL10-VIP         Lot/Serial No.	<b>Q</b> 
Quick Print Manufacturing Labor Accept Cancel	Delete

<b>P Week</b> Week D			IPP) 7/11/201 	4
	<u>Q</u> uick R	ow 1	9	
	Shift	Start Time	End Time	
1	1	09:00 AM	01:00 PM	
2	2	01:00 PM	06:00 PM	
3				
				Accept Cancel Delete

#### Sales Order Entry

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

ider <u>2</u> . Address	<u>3</u> . Lines	<u>4</u> . Totals	5. Credit Card	Jser useriig	
🔊 🔨 🕅 🕅 🗸	• Quick Row				121-22-22-22-22-22-22-22-22-22-22-22-22-
Item Code	Ordered	Back Ordered	rk Order Generatio Unit Price	Extension	Comment
BEL10	2.00	.00	84.000	168.00	
	.00	.00	.000	.00	
vietice ltern					
cription Item		1			
ehouse 001		1			
		.00			
	k 🕅 🕅 🔹 😒 🥆 Item Code	No.     No.     Quick Row       Item Code     Ordered       BEL10     2.00	Item Code     Ouick Row     Image: Contered work       Item Code     Ordered     Back Ordered       BEL10     2.00     .00	Item Code     Ordered     Back Ordered     Unit Price       BEL10     2.00     .00     84.000	Item Code     Ordered     Back Ordered     Unit Price     Extension       BEL10     2.00     .00     84.000     168.00

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.

9º Op	ption	Selection				? _ 🗆
Bill	Numb	er BEL10	lte	em		
Rev	vision	000				
						<b>.</b>
		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				
L						
					<u>[</u>	OK <u>C</u> ancel 🕜

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

Orders	
0000267	
BEL10	그 그 -
01,02,03	
<u>G</u> ene	rate <u>C</u> ancel
	D1,02,03

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.

uting N scriptic	lumber R	1 outing 1	-514 4 6						Copy from
	Step No.	Description	Req. Hours	Gen. W.O.	W.O.Type	Nature Of W.O.	Mfg	Labor Code	P Nachine
1		Make step	.00		M				
2	0020	Grinding	.00		P		Π		
3			.00						
								~	elete 🔒 🕜

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

<section-header> Sales Order En</section-header>	try (MPP) 7/1	1/2014				
Order Number	0000190			Copy fro	om De <u>f</u> aults	Customer Credit WOs 🔹
<u>1</u> . Header	2. Address	<u>3</u> . Lines	<u>4</u> . Totals	5. Credit Card	Jser useriig	Generatio
<u>-</u>	<u>-</u>	- I	<u>-</u>	<u></u>		<u>E</u> dit/View
[] [] S.I.	• [] • [2]	Quick Row	1 💋		10	=====
	tem Code	Ordered	Back Ordered	Unit Price	Extension	Comment
1 BEL10		2.00	.00	2,836.000	5,672.00	
2		.00	.00	.000	.00	
Description	Item					
Warehouse	001					
Unit Of Measure	EACH					
Shipped			.00			
	1					
					To	otal Amount 5,672.00
Print <u>O</u> rder Print	Pic <u>k</u>	ecalc Price			Accept	Cancel Delete 🖨 📀

			0 💋 🔰	2	91	
1	W.O. Number	W.O. Description	W.O. Date	Machine Code	W.O. Type	
4 00	000270	Grinding	7/11/2014 📰	A1	Production	
5 00	000271	Make step	7/11/2014 📰	A1	Manufacturing	
6 00	000272	Grinding	7/11/2014 📰	A1	Production	
7 00	000273	Make step	7/11/2014 📰	A1	Manufacturing	
8 00	000274	Grinding	7/11/2014 📰	A1	Production	_

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.

ञ् <mark>छः</mark> Sales	s Order Enti	r <b>y (MPP)</b> 8/8/	2014				<u>_   ×</u>
Order N	Number 0	000190 🖓	14.4	Þ ÞI 🗐	Copy fro	om De <u>f</u> aults	Customer Credit WOs 🕶
<u>1</u> . H	leader	2. Address	<u>3</u> . Lines	<u>4</u> . Totals	5. Credit Card	Jser useriig	
	1				1		
	🇞 🕅	H • 🐼 •	Quick Row	1 🔁	- III -	2	
	lte	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	
Iter	m Contract						F
S	ihip Date	7/11/2014					
V	√.0. No.	0000267					
	spatch No.						
						To	otal Amount 5,672.00
Print <u>O</u> r	rder Print F	Pic <u>k</u> 🧖 Re	calc Price			Accept	<u>Cancel</u> elete

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.

sege Sage	100 ERP	×
?	There is/are Work Order(s) already generated for this line. Do you want to generate again?	
	Yes No	

Here is the Dispatch automatically created for Mfg WO:

👐 * Dispatch Data Entry (MPP) 7/11/2014	<u> </u>
Work Order No       0000273	
<u>1</u> . Header <u>2</u> . Lines <u>3</u> . Production User useriig	
Dispatch Date 7/11/2014 🛅 Dispatch Status 0 🔍 🔒 Open	
Starting Date     7/11/2014     Starting Time     05:13 PM      Commit Quantity       Ending Date     7/11/2014     Ending Time     05:13 PM      Commit Quantity	
Machine         M001         Machine #1 M1         Mold Number           MFG Item Code         BEL10         Lot/Serial No.	<b>Q</b> 3.
Quick Print         Manufacturing         Labor         Accept         Cancel	<u>D</u> elete

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

	atch Data Entry (MPP) der No 0000273 [, No. 0001 [, [-1		Make step		
<u>1</u> . Hea	ider <u>2</u> . Lines	3. Production		User userii	g
	N 🔁 🕈	Quick Row	1 🛃		屋■信任局・
	Item Code	Ordered	Unit Price	Extension	Comment 🔺
1	BEL10 🔍	2.00	2,836.000	5,672.00	
2	BEL10-VIP	2.00	131.000	262.00	
3	FINSTNGLAZE	36.00	.000	.00	
4	PLS-TRAY	2.00	135.000	270.00	
5	SLBMDR	96.00	.000	.00	
ء ١	тіруі	2.00	131.000	262.00	▼ ▶
Desc	cription Item		_		
Ware	ehouse 001				
Unit Of	Measure EACH				
Price	e Level 1		-		
					Total Amount 6,571.00
Quic <u>k</u> Prir	nt	Manufacturing		Labo <u>r</u>	Accept <u>C</u> ancel <u>D</u> elete

Labor (	Charge Data Entry (MP	P) 7/11/2014			נ
Vork Ord	er No. 0000273 Di	spatch No. 0001 Dispatch Date	7/11/2014 Starting	7/11/2014 05:13 F	PM
			Ending	7/11/2014 05:13 F	٩M
	Start	Quick Row 1 🗂	)	<b>20</b>	-
	Labor/Mold Type Code	Description	Hours Spent		٦
1	LAB2 🔍	Machine#002 Labor	2.50		
2			.00		
Machir	ne Code M001	Q			
				t <u>C</u> ancel <u>D</u> elet	e

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:

sege Sage	: 100 ERP	X
į	There is no Misc. Charge matching the Labor Code.	

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.

# **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	) 7/11/2014			
Work Order No         0000273            Dispatch No.         0001          [*]	14 4 6 61	Make step		
<u>1</u> . Header <u>2</u> . Lines	3. Production	Use	useriig	
Custom Field 1 Test Prod Custom Field2 200.00 Custom Field 3 7/11/2014				
Quic <u>k</u> Print	Manufacturing		.abo <u>r A</u> ccept	<u>Cancel</u> <u>D</u> elete

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:

jeld Name       UDF_CUSTOM_FIELD1       [Locked]         Description       Custom Field 1       Bytes Used       279 of 20,000         Name Space Used       279 of 20,000       Name Space Used       528         Dipop Box       Image: Check_Box       Image: Check_Box       528         1. Attributes       2. Validation       3. Data Sources       Image: Check_Box       Image: Check_Box <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>?</th></t<>									?
iontrol Type       Multi-Line       Image: Clocked in the second			[Locked]						
Check-Box      A      I. Attributes     2. Validation     3. Data Sources      Business Object     Select     Data Source     Column     Ignore     Expression     DM     +=									
Check-Box      A     I. Attributes     2. Validation     3. Data Sources      Business Object     Select Data Source     Column     Ignore Expression DM     +=	ntrol Type 💿 Multi-Line 📰	[Locked	1						
Business Object Select Data Source Column Ignore Expression DM BM_Production_bus	O List-Box ■ O List-Box ■ O Chec <u>k</u> -Box ⊠▲				Bytes U the tab	le. Name	Space Used i	s bytes-use	columns in ed plus the
BM_Production_bus	<u>1</u> . Attributes <u>2</u> . Validatio	n ]	3. Data Sources						
	Business Object	Select	Data Source	Column		Ignore	Expression	DM	
BM_Production_bus:CreateFromSMPDispatch 🗶 SM_DispatchHeader UDF_CUSTOM_FIELD1									<u>t</u> =
	BM_Production_bus:CreateFromSMPDispa	tch 🗵	SM_DispatchHeader	UDF_CUSTOM_FIELD1					

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.

see * Production Entry (MPP) 7/11/2014	
Production Number 0000033	De <u>f</u> aults
1. Header 2. Lines 3. Production	
Custom Field 1	
Test Prod	
Custom Field 2 200.00	
Custom Field 3	
7/11/2014 🛅	
Accept Cancel Del	ete 🔒 🕜

#### 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.

🔓 * Dispatch Data I	intry (MPP) 7/11/2014				<u>- 0 ×</u>
	17.61	Make step		₽	
<u>1</u> . Header	<u>2</u> , Lines <u>3</u> , Production		User useriig	]	
Dispatch Date	7/11/2014	Dispatch Status	C 2, A Cla	sed	
Starting Date	7/11/2014	Starting Time	05:13 PM 🔻	Commit Quantity	
Ending Date	7/11/2014	Ending Time	05:13 PM 💌		
Machine MFG Item Code	M001 🔄 Machine #1 BEL10	M1	Lot/Serial No.	Mold Number	
	Production 0000039	Quantity or	w0	2.00	
Quic <u>k</u> Print	Manufacturing			Labor	<u> </u>

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

	tion Entry (MPP) on Number 00000 ader <u>2</u> . Lines	39 [-], [-] 14 4 🕨 🕅			Defaults.
	- 😒	Quick Row 1	2 IV		중ଋ(:65,•
Lot/Se	erial Number				
	Comp	onent Item Code	Quantity/Bill	Extended Quantity	Comm_
1	BEL10-VIP	٩	1.00	2.00	
2	FINSTNGLAZE		18.00	36.00	
3	PLS-TRAY		1.00	2.00	
4	SLBMDR		.00	.00	ExtendedQuantity=96 (
5	TIP-XI		1.00	2.00	
6	/LAB2		2.00	4.00	
7	/MISC_CHARGE1		3.00	6.00	•
•	1				Þ
Desc	cription HON 4 D	RAWER LETTER FLE W/O LI	K 🔺		
	vision 000				
Ware	ehouse 001				
Unit Of	Measure EACH		•		
				Accept Cano	el 🚺 <u>D</u> elete 🛛 🚑 🕻 🏈

#### 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:

	Dispatch R	eport Table : E	dit Field								?_
I. Attributes       2. Validation       3. Data Sources         Business Object       Select       Data Source         Column       Ignore       Expression	eld Name	UDF_CUSTO	4_FIELD1		[Locked]						
	escription										
	ontrol Type			[Locked	]		_	Name Space Use	ed 1,63	3	
Business Object Select Data Source Column Ignore Expression DM		O List-Box						<ul> <li>the table. Name</li> </ul>	e Space Used i	is bytes-used	olumns in plus the
	<u>1</u> . Attribut	tes	<u>2</u> . Validation		<u>3</u> . Data Sources	]					
SM_DispatchQuickPrint_rpt IM	Business O	bject		Select	Data Source	Column		Ignore	Expression	DM	
	SM_Dispate	chQuickPrint_rpt		×	SM_DispatchHeader	<ul> <li>UDF_CUSTO</li> </ul>	M_FIELD1				5=
										<u>0</u> K	

Here is the SM\_Dispatch Worktable with the UDF fields populated:

🔓 Data File	Display and Maintenance	<u>_                                    </u>
File Name	D:\MAS\MAS500\MPP\MAS90\MAS_MPP\SMMPP\SM_DispatchWrkIIG071117424530.Mv	- 🖻
Key Size	N/A Rcd Size 7,936 Rcd Count 9 Company MPP Type Keyer	£
0		0
111 Labo 112 Line 113 Tech 114 Line 115 Star 116 Star 117 Over 118 Over 120 Impo 121 Hour 122 Bill 123 Reta 124 Over 125 Gene 126 UDF 127 UDF	DiscountPercent.       .00         rrSkillCode\$       []         Type\$       []         micianCode\$       [M001]         Desc\$       []         tingDate\$       []         tingTime\$       []         tingTime\$       []         tingTime\$       []         timeStartDate\$       []         timeStartTime\$       []         rtToJC\$       []         rtToJC\$       []         sSpent       .00         ingRate       .00         timeFactor       .00         ratedProductionNo\$       [0000039]         CUSTOM_FIELD1\$       [Test Prod]         CUSTOM_FIELD3\$       [20140711]	
	and Display Options n Separator 📃 Key Scan Filter 🗌 <u>F</u> ormatted Display 🗹	
Key No. [ Key [		

# **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. The information can only be viewed.

MRP Inqu	iry (MP	P) 7/11/2014					
tem Code Descriptior			Q			U/M	.00
	Туре	Document No.	Required Date	Demand	Supply	Proj. On Hand	
							<u> </u>

escripti	on HOM	BEL10-VIP         U/M         EACH           HON 4 DRAWER LETTER FLE W/O LK         On Hand         805.00										
						L						
	Туре	Document No.	Required Date	Demand	Supply	Proj. On Hand	·					
1	PO	0010019	3/20/2013	.00	239.00	1,044.00						
2	PO	0010019	3/20/2013	.00	208.00	1,252.00						
3	PO	0010024	3/20/2013	.00	3.00	1,255.00						
4	PO	0010035	3/20/2013	.00	4.00	1,259.00						
5	PO	0010040	3/20/2013	.00	2.00	1,261.00						
6	SO	0000178	8/24/2013	5.00	.00	1,256.00						
7	SO	0000179	8/24/2013	6.00	.00	1,250.00						
8	WO	0000163/0001	9/3/2013	35.00	.00	1,215.00						
9	WO	0000196/0001	9/12/2013	257.00	.00	958.00						
10	W0	0000204/0001	10/29/2013	1,560.00	.00	602.00-						
11	W0	0000198/0001	10/31/2013	.00	257.00	345.00-						
12	WO	0000208/0001	11/4/2013	.00	257.00	88.00-						
13	WO	0000238/0001	7/10/2014	2,970.00	.00	3,058.00-						
14	WO	0000240/0001	7/10/2014	4.00	.00	3,062.00-						
15	WO	0000242/0001	7/10/2014	.00	2,923.00	139.00-						
16	WO	0000244/0001	7/10/2014	.00	10.00	129.00-						
17	WO	0000267/0001	7/11/2014	2.00	.00	131.00-						
18	WO	0000269/0001	7/11/2014	2.00	.00	133.00-						
19	WO	0000271/0001	7/11/2014	2.00	.00	135.00-	-					

# **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 Inqui	y (MPP)	7/10/2014							<u>_   ×</u>
Bill Number	BEL10			 	- 14 4	N NI	(****)		<b></b>	1
					• 14 4				<u>⊢ </u> Ext	olode
Revision	000		1	Current Revision						
Bill Type	Standar	4		Description 1	Item					
Unit of Measure	EACH			Description 2						
Routing Number	R1			Date Last Used	7/10/201	4				
Option Code				Effective Date	7/10/201	4	Detail t	o Display	Include All Deta	eil 💌
⊙ Single-Lev	vel	() Ir	ndented	<ul> <li>Summarized</li> </ul>						
Component Ite	m Code	Revision	Туре	Description		Quantit	y/Par	U/M	Comment	8
BEL10-VIP		000	Standard	HON 4 DRAWER L			1.00	EACH		8
PLS-TRAY TIP-XI				HON 4 DRAWER L HON 4 DRAWER L			1.00 1.00	EACH EACH		
/LAB2				Labor 2 charge			2.00	LACH		
				-						
									Item Inquiry	
									MRP Inqui	ry 🗟
							]		•	
									<u> </u>	

🔓 Item Inquiry	(MPP) 7/11/201	14						
	10-VIP V 4 DRAWER LET	TER FLE W/O LK	× _ ₽	4 6 61 (	- 10			More 💌
<u>1</u> . Main	2. Additional	<u>3</u> . Quantity	4. History	<u>5</u> . Transa	actions	<u>6</u> . Orders	<u>7</u> . Cost Detail	
Product Line Product Type Valuation Procurement	WF&A WI Finished Good FIFO Make	DRKSTATION FUR Veight Volume Inventory (	0.0000	Unit of Mo Standard Purchase Sales	EACH Is EACH			1
Price Code Default Whse Planning Code	000 - CEN	NDARD QUANTIT ITRAL WAREHOUS MFG Priority Code	SE <u>Warr</u>	anty Code	CONT		ainer Corporation	n Of Usa
Sales			chases			-Last Costs-		
Retail Price			indard Cost		.500	Item	1,73	33.550
Standard Price	131	.000 Av	erage Cost	1,651.	.510	Allocated		.000
Last Sold		La	st Receipt	7/10/	2014	Total	1,73	33.550
	ription On Ha		On SO	On Bk Ord	Committed	0n W0	Req for WO	Αν 👧
000 CENT 001 EAST		244.00 244.00 212.00 212.00	.00 5.00	.00 .00	.00 5.00	1,022.00 2,994.00	293.00 3,153.00	
		.00 .00	6.00	.00	6.00	40.00	4.00	Þ
							<u>0</u> K	

em Cod		10-VIP			U/M	EACH	
escripti	on HOM	I 4 DRAWER LETTE	.R FLE W/O LK		On Hand	805.00	
	Туре	Document No.	Required Date	Demand	Supply	Proj. On Hand	
1	PO	0010019	3/20/2013	.00	239.00	1,044.00	
2	PO	0010019	3/20/2013	.00	208.00	1,252.00	
3	PO	0010024	3/20/2013	.00	3.00	1,255.00	
4	PO	0010035	3/20/2013	.00	4.00	1,259.00	
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8	W0	0000163/0001	9/3/2013	35.00	.00	1,215.00	
9	W0	0000196/0001	9/12/2013	257.00	.00	958.00	
10	W0	0000204/0001	10/29/2013	1,560.00	.00	602.00-	
11	W0	0000198/0001	10/31/2013	.00	257.00	345.00-	
12	W0	0000208/0001	11/4/2013	.00	257.00	88.00-	
13	W0	0000238/0001	7/10/2014	2,970.00	.00	3,058.00-	
14	W0	0000240/0001	7/10/2014	4.00	.00	3,062.00-	
15	W0	0000242/0001	7/10/2014	.00	2,923.00	139.00-	
16	WO	0000244/0001	7/10/2014	.00	10.00	129.00-	