



**OpenPro ERP Software**

# **OpenPro Application Demonstration Guide Manufacturing Basics**

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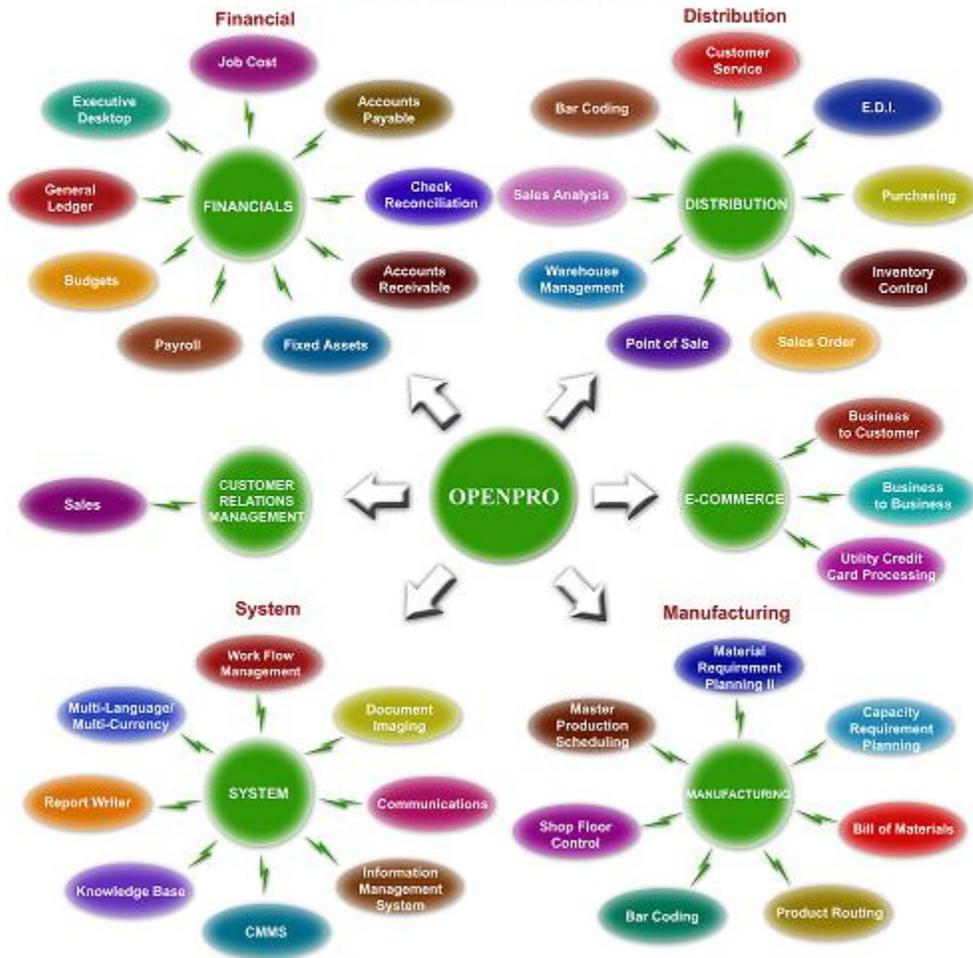
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# OpenPro ERP

The Open Source ERP Software Solution

*More Value. More Features.*



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## **Introduction**

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Thank you for your interest in OpenPro. This *Demonstration Guide* is designed to orient you to the OpenPro product. The guide contains getting started information as well as a more detailed overview of the basic business flow. We hope you will find the scenarios in the overview to be useful. We have loaded the same set of data used to populate the overview screen shots into the database you will be accessing during your evaluation period.

If after your evaluation you would like to learn more about how we might assist your enterprise, do not hesitate to contact us at [salesop@openpro.com](mailto:salesop@openpro.com) or call 714-378-4600. And again, thank you for your interest.

### On-line training processes

On the [www.openpro.com](http://www.openpro.com) website you can find our on-line training, which walks you through the processes in this manual.

Or go to [www.openpro.com/ol\\_training.html](http://www.openpro.com/ol_training.html)

This website has general information on the OpenPro ERP packages. It also contains video training sessions by application.

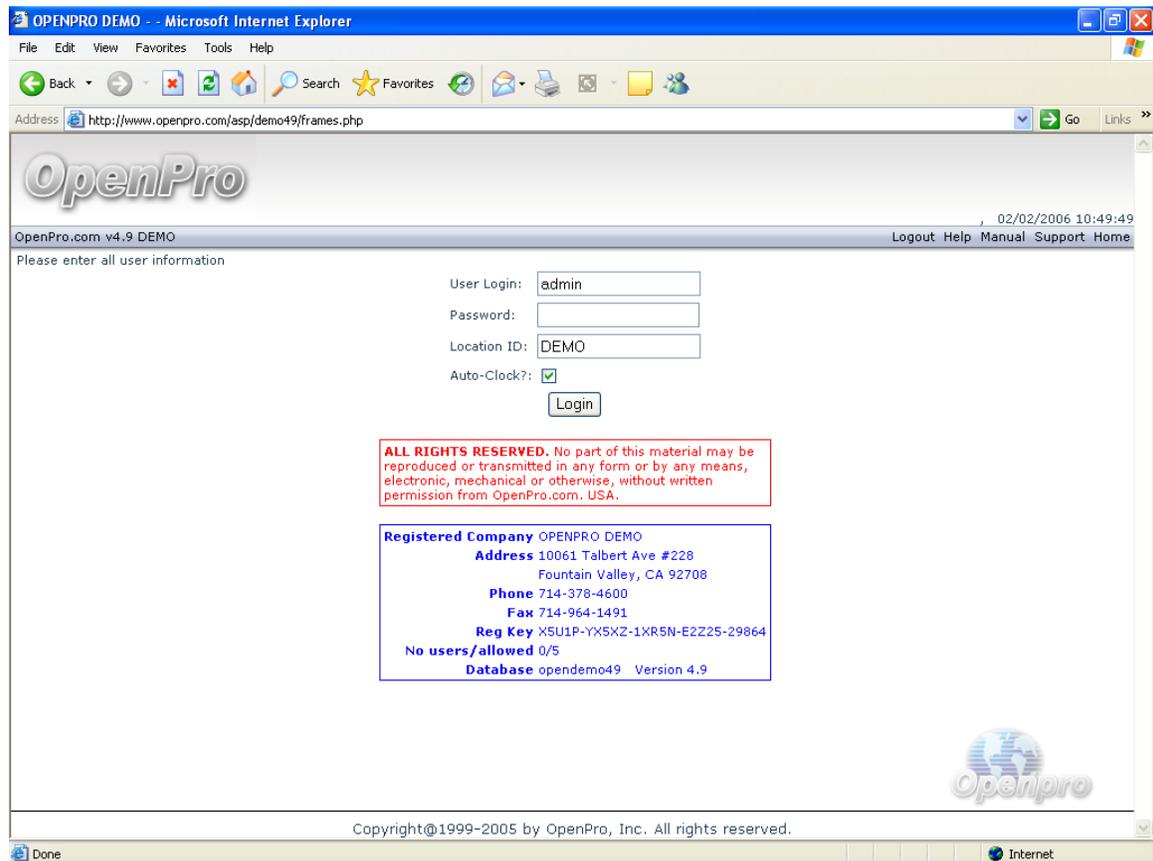
## Log In to OpenPro ERP software

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**Figure 1.1: Login Screen for OpenPro Client for Windows**

**Note:**

This is a fully functional OpenPro Client. It is hard-coded to access a demonstration database on our company server. Due to heavy usage we must limit the number of concurrent connections to the software. If you do not connect the first time you try, please try again later.



When logging into the OpenPro Standard Solution, you are presented with the following options:

**User Login:** Enter the Username we assigned you when you requested your evaluation copy.

- This will be the same Username as the Username you use to log into the OpenPro website.

**Password:** Enter the password we assigned you when you requested your evaluation copy.

- This will be the same password as the password you use to log into the OpenPro website. The password you type into this field will not display on your screen; it will be represented by asterisks (\*) for security purposes.

**Location ID:** Enter the upper case **DEMO**.

On the top menu bar, to the far right of the screen, the following buttons are available:

**LOGOUT:** Brings you back to this login screen.

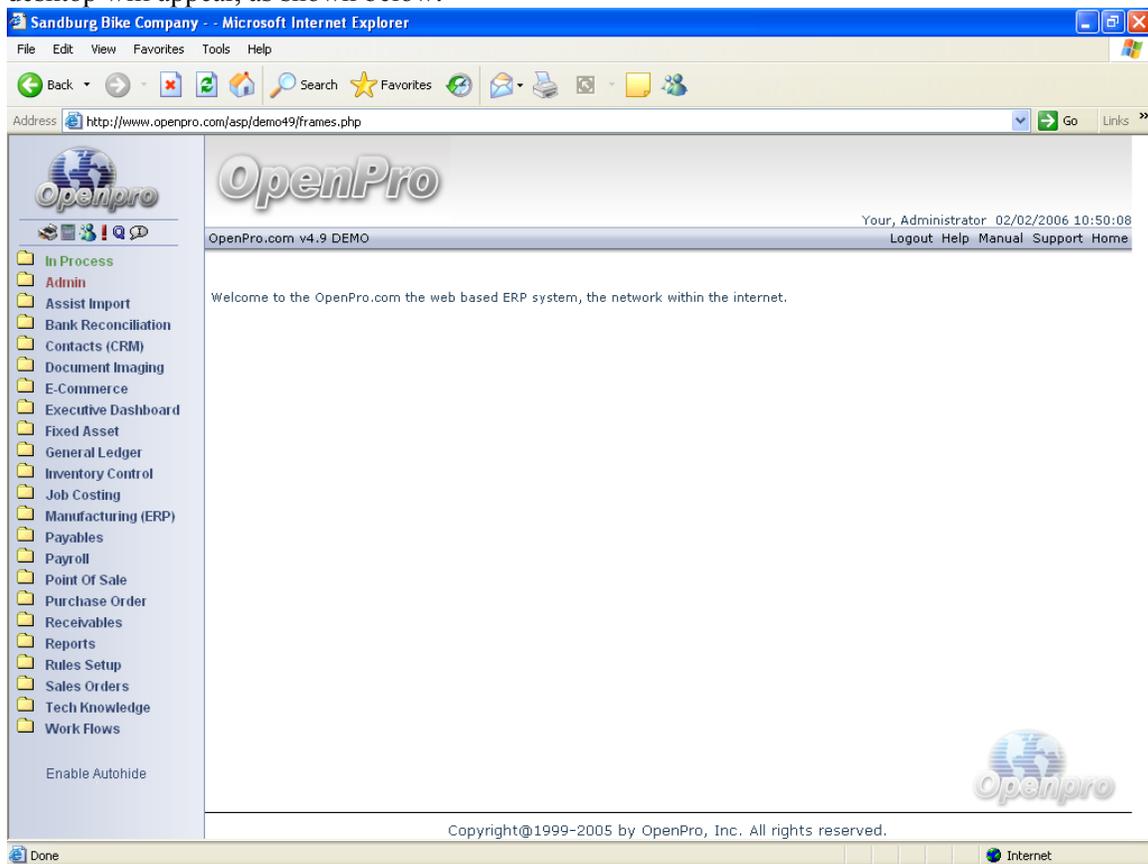
**HELP:** Click to see detailed help information about the screen you are working on.

**MANUAL:** Detailed manuals about each application, including policy and procedures.

**SUPPORT:** Online support during normal business hours, or questions can be emailed to [supportop@openpro.com](mailto:supportop@openpro.com) .

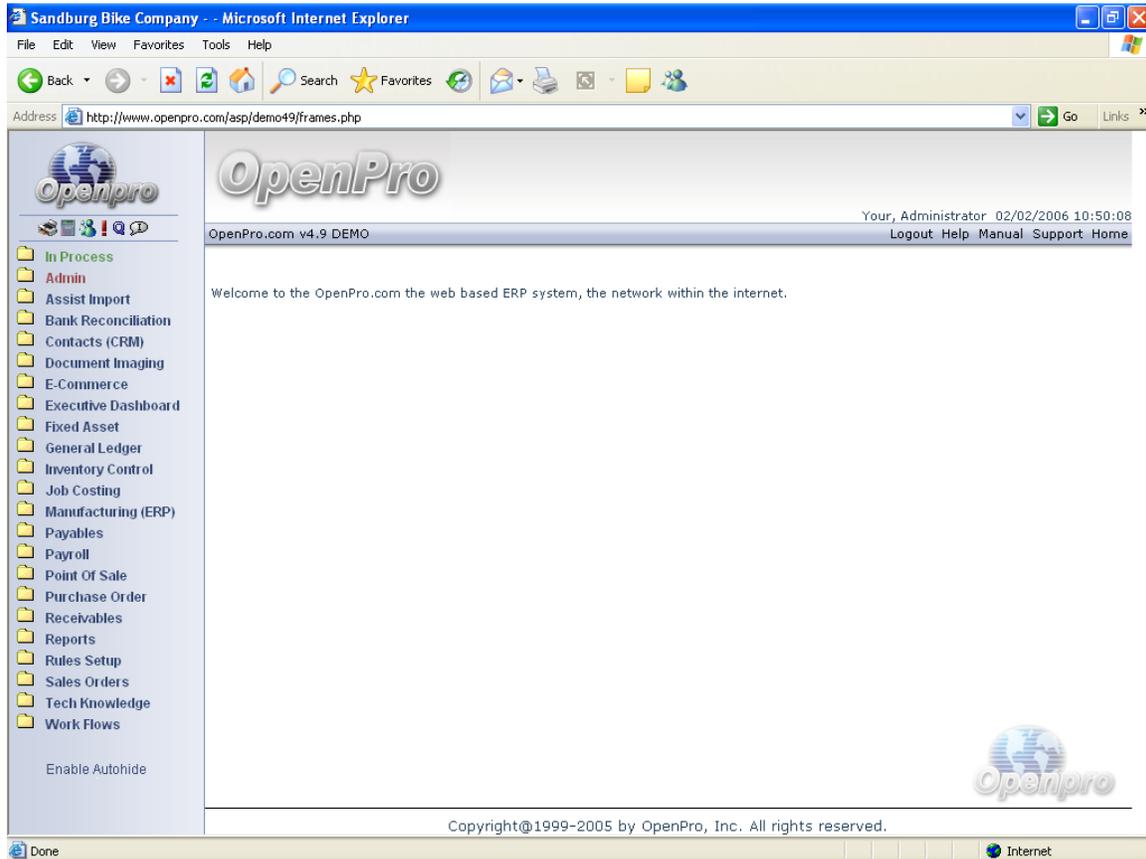
**HOME:** Takes you back to the main menu screen.

Once your Username and password have been successfully authenticated, the main application desktop will appear, as shown below:



**Figure 1.2: Main Application Desktop for the Windows Client**

If you do not reach the application desktop, verify that you have entered your Username and password correctly. Also keep in mind that we have limited the number of concurrent sessions. Our server may be busy when you try to log in initially. Try again later and see if this corrects the problem. If you are still having trouble, visit the Frequently Asked Questions (FAQ) section of our website. Or contact Customer Service at [opinfo@openpro.com](mailto:opinfo@openpro.com).



On the top **menu bar**, to the far left of the screen, the following buttons are available:

**Printer Icon:** Prints information on the right hand screen to your printer. This is used to print reports and screens. You can also use the right click, “print” option.

**Calculator:** An on-line 10 key calculator.

**Messenger Services:** This option can be used to send instant messages to anyone who is logged into the system.

The menu bar also shows you what Version of the software you are running, your Login ID, and the IP address that you logged in from. This information is also stored in the database for historical and security purposes.

To the right of the top **menu bar** are the following:

**Logout:** Brings you back to this login screen.

**Help:** Click to see detailed help information about the screen you are working on.

**Manual:** Detailed manuals about each application, including policy and procedures.

**Support:** Online support during normal business hours, or questions can be emailed to [supportop@openpro.com](mailto:supportop@openpro.com) .

**Home:** Takes you back to the main menu screen.

And on the **application menu** section at the bottom of the menu:

**Enable Autohide:** This will make the menu disappear until you move the mouse over to the far left of the screen, then you will see the menu appear.

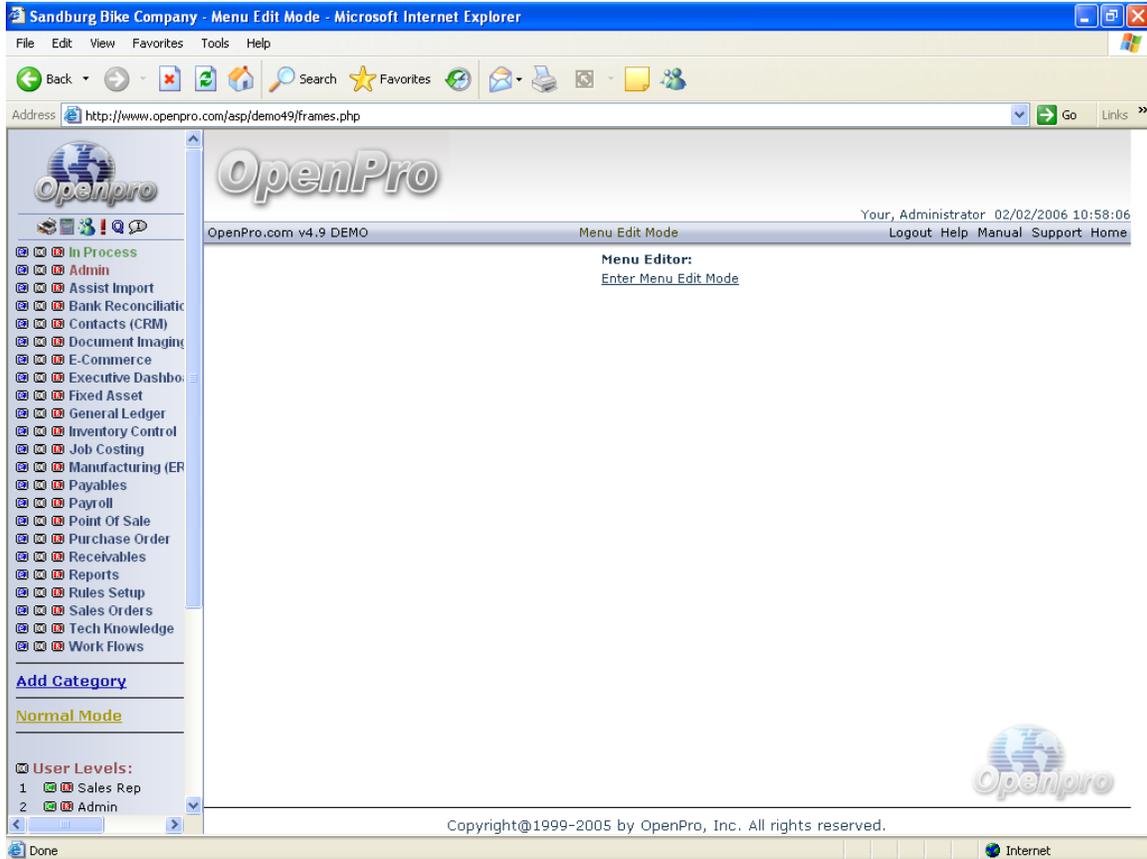
**Disable Autohide:** This makes the menu fixed, always open and on top of the screen.

**The Globe:** Used as the messenger between machines.

The Application menu is user definable; based upon your login id you can have different items on this menu.

For example, if you log in as an administrator this gives you the capability to change the menu, names of the fields, etc.

The menu system is fully customizable; with the menu editor, you can add, change and delete menu items per login type. So, in this example, someone in Accounts Payable only sees A/P screen information.



## Exit the OpenPro Standard Solution

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There are two ways to exit the OpenPro Standard Solution. You can click on the standard “X” icon in the upper right hand corner of the main application window. This will immediately close the application and return you to your computer desktop. Or, you can use the System menu’s “LOGOUT OpenPro” option. To exit the application and return to your computer desktop using this method, select the “LOGOUT OpenPro” option from the System Module’s drop-down menu, as shown below:

### Figure 1.5: Exit OpenPro

After selecting this option, the application will close, returning you to your computer desktop.

## Application Fundamentals

The OpenPro Standard Solution contains a number of fundamental features designed to simplify your use of the software. In this section, we describe those fundamentals to familiarize you with their use. First, look at a sample Inventory Item screen, as shown below. We will use this Item Search screen to illustrate several of the application fundamentals to be found throughout the application—across multiple screens and modules.

### First, go to **Inventory Control\Item Find**:

The screenshot shows a web browser window titled "Sandburg Bike Company - Item Find - Microsoft Internet Explorer". The address bar shows the URL "http://www.openpro.com/asp/demo49/frames.php". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The address bar also contains navigation buttons for "Back", "Forward", "Home", "Search", "Favorites", "Print", "Stop", "Go", and "Links".

The main content area displays the "OpenPro" logo and the text "OpenPro.com v4.9 DEMO" and "Item Find". The user's session information is shown as "Your, Administrator 02/02/2006 10:58:44". There are links for "Logout", "Help", "Manual", "Support", and "Home".

The "Find Item" section contains the following fields and options:

- Item Name**: Text input field
- Part #**: Text input field
- Vendor #**: Text input field
- Min Price**: Text input field
- Max Price**: Text input field
- Manufacturer #**: Text input field
- Min Weight**: Text input field
- Max Weight**: Text input field
- UPC #**: Text input field
- Inventory Class**: Dropdown menu with "-- choose --"
- Item Category**: Dropdown menu with "- all -"
- FAST**

The **Show Inventory For Location** dropdown menu is set to "--ALL--".

The **For item availability** section includes:

- By Day** (selected)
- By Week**
- Stock on hand**
- exclude non-inventory items**
- exclude Labor Billables**
- Search on Category Descriptors**

A blue **Search** button is located below the "FAST" checkbox.

The left sidebar contains a navigation tree with the following items:

- In Process
- Admin
- Assist Import
- Bank Reconciliation
- Contacts (CRM)
- Document Imaging
- E-Commerce
- Executive Dashboard
- Fixed Asset
- General Ledger
- Inventory Control
  - IC Reports
  - Maintenance
    - Item Find (selected)
    - Item Find Inq
    - Item Find Inq
    - Item Serial No.
    - Serial List
    - Trans History
- Job Costing
- Manufacturing (ERP)
- Payables
- Payroll
- Point Of Sale
- Purchase Order
- Receivables
- Reports
- Rules Setup

The footer of the page contains the text "Copyright©1999-2005 by OpenPro, Inc. All rights reserved." and the "OpenPro" logo.

## Search Screen

All the screens have many different options on searching records as well as sorting the data that is displayed on the screen. If you simply click the search button, it will reply with all the records in the database. OpenPro ERP software has very powerful options with every search screen, while remaining user-friendly.

In this example we can search items by the following categories: **Item #**, **Name or description**, **mfg number**, **weight** and **UPC**.

You can also search by **Item Category**. If you have multiple warehouse locations you can narrow your search down to a single location. Each field can be searched using a **% for a wild card**. For example, search **%FG%** to find all items that have FG in the item name. With our advanced SQL database, searches are fast and easy.

The screenshot displays the OpenPro ERP software interface. The main window shows a search results table titled "Selected Items". The table has the following columns: Item Name, Part #, Price, Weight, Stock, UPC #, and ACTIONS. The ACTIONS column contains icons for INFO, EDIT, INV ADJ, INV, AVAIL, MRP, and REQ. Below the table is a "New Search" button. The left sidebar contains a navigation menu with various categories like Development, Admin, Assiat Import, Bank Reconciliation, CMMS Machines, Contacts (CRM), Document Imaging, Ecommerce, Executive Dashboard, Fixed Asset, General Ledger, Inventory Control, IC Reports, IC Reporta..., Maintenance, Physical Inventory, Warehouse M S, Job Costing, Manufacturing (ERP), Payables, Payroll, Point Of Sale, PR Time Cards, Purchase Order, Receivables, Rules Setup, Sales Orders, Tech Knowledge, Warranty Service, and Work Flows. The top of the screen shows the OpenPro logo and the user's name, Administrator 11.

Item Name	Part #	Price	Weight	Stock	UPC #	ACTIONS
FG100 OpenPro Mountain Bike	FG100	100.00000	5.500	3610	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG100 OpenPro Mountain Bike 2copy	FG1002copy	100.00000	5.500	0	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG100 OpenPro Mountain Bike COPY	FG100COPY	100.00000	5.500	0	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG200 Deluxe Mountain Bike	FG200	995.00035	7.500	8894	45671233211	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG300 Custom Mountain Bike	FG300	1875.00000	10.000	42	890812312313	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG400 Custom electric Bike	FG400	15547.00000	35.000	38	987987123123	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG650 OpenPro Mountain Bike	FG650	100.00000	5.500	0	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG900 Racing bike 900	FG900	100.00000	0.000	11	12312333	INFO EDIT INV ADJ INV AVAIL MRP REQ
FG950 BLACK OPS CUSTOM	FG950C	100.00000	5.500	0	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ

Even once you received the result listing you can **sort** the listing by clicking on the underlined top header of each column.

If you have a large result, you can search by using the **EDIT/FIND** option on your browser.

You can **print** the information by clicking on the *Printer* Icon from the menu bar or doing a right click, "print" anywhere on the screen.

If at any time you want to change your search you can click on "new search" or click "Item Find" on the left menu bar.

## Application Fundamentals

On the right side of the listing are actions. This is where you can drill down into more details about this record (items).

Here is the item availability screen that is used for **Available to Promise** for your customers.

Item Availability

Item: 3lw - #3 lock washer

Sum by Week

Date	Beginning Balance	Required	Receiving	Committed
2/2/2006	13603.95	2548.00	560.00	5.00
2/3/2006	11610.95	0.00	0.00	0.00
2/4/2006	11610.95	0.00	0.00	0.00
2/5/2006	11610.95	0.00	0.00	0.00
2/6/2006	11610.95	0.00	0.00	0.00
2/7/2006	11610.95	0.00	0.00	0.00
2/8/2006	11610.95	0.00	0.00	0.00
2/9/2006	11610.95	0.00	0.00	0.00
2/10/2006	11610.95	0.00	0.00	0.00
2/11/2006	11610.95	0.00	0.00	0.00
2/12/2006	11610.95	0.00	0.00	0.00
2/13/2006	11610.95	0.00	0.00	0.00
2/14/2006	11610.95	0.00	0.00	0.00
2/15/2006	11610.95	0.00	0.00	0.00
2/16/2006	11610.95	0.00	0.00	0.00
2/17/2006	11610.95	0.00	0.00	0.00
2/18/2006	11610.95	0.00	0.00	0.00
2/19/2006	11610.95	0.00	0.00	0.00
2/20/2006	11610.95	0.00	0.00	0.00
2/21/2006	11610.95	0.00	0.00	0.00
2/22/2006	11610.95	0.00	0.00	0.00
2/23/2006	11610.95	0.00	0.00	0.00
2/24/2006	11610.95	0.00	0.00	0.00
2/25/2006	11610.95	0.00	0.00	0.00
2/26/2006	11610.95	0.00	0.00	0.00
2/27/2006	11610.95	0.00	0.00	0.00
2/28/2006	11610.95	0.00	0.00	0.00
3/1/2006	11610.95	0.00	0.00	0.00
3/2/2006	11610.95	0.00	0.00	0.00
3/3/2006	11610.95	0.00	0.00	0.00
3/4/2006	11610.95	0.00	0.00	0.00
3/5/2006	11610.95	0.00	0.00	0.00

http://www.openpro.com/asp/demo49/index.php?act=item\_availability&noheaders=true&period=byday&selectstore=&item=6855#

## Application Fundamentals

Here is the **Show Inventory** screen, displaying the current stock on hand. Here, you can also see a drill down list of serialized items.

Inventory on Hand for FG300  
FG300 Custom Mountain Bike

Location Code	Location Name	Location Phone	Quantity on Hand
hwd	<a href="#">Hollywood</a>	213-444-9088	0.000
DEMO	<a href="#">OpenPro Samburg Bike Company</a>	714-378-4603	15.000
SBO	<a href="#">San Bernardino</a>	9096764002	0.000
SDO	<a href="#">San Diego</a>	6145678900	2.000
Serial nos: 2222			
3333			
WHSE	<a href="#">Warehouse</a>	234-234-9898	2.000
WLA	<a href="#">West LA</a>	949-555-6578	0.000
<b>Item Total</b>			<b>19.000</b>

## Application Fundamentals

Here is the **Edit** screen, displaying the item and all its characteristics.

http://www.openpro.com - Sandburg Bike Company - - Microsoft Internet Explorer

### Edit Item

<b>Name</b>	FG100 OpenPro Mountain Bike	<b>Rev #</b>	1a	<b>Status</b>	Active
<b>Part Number</b>	FG100	<b>label</b>			
<b>Ship Reference</b>	<input checked="" type="checkbox"/>	<b>Sellable</b>	<input checked="" type="checkbox"/>	<b>Taxable</b>	<input checked="" type="checkbox"/>
		<b>E-Commerce</b>	<input checked="" type="checkbox"/>		
<b>Image</b>	<input type="text"/> Browse...				
<b>UPC Code</b>	01238882231	<b>label</b>			
<b>Manufacturer</b>	OpenPro Toy Company 1				
<b>Mfr. Number</b>	Manufacture#	<b>label</b>			
<b>Vendor Number</b>	V101	<b>label</b>			
<b>Weight</b>	5.500				
		<b>Current Image:</b>			
<b>Color</b>	Yellow	<b>Size</b>	- choose -	<b>Style</b>	
<b>Height</b>					
<b>Cost</b>	\$45.00000	\$1.22000	\$4.44000	\$3.23220	\$1.33540
<b>Price</b>	\$100.00000	\$98.00000	\$94.00000	\$90.00000	\$85.00000
<b>Inventory Tracking</b>	Regular	<b>Inventory Class</b>	FGItem - Finished Goods item		
<b>Inventory Unit of Measure</b>	Each	<b>Sell Unit of Measure</b>	Each		
<b>Inv to Sell Conv Factor</b>	1.000000	<b>Choices</b>	-- choose --		
<b>Price</b>	P1 Price by Custom type	<b>Commission</b>	-- none --	<b>Item Category</b>	Bikes
<b>Description</b>	FG100 OpenPro standard model				
<b>Description 2</b>	test descr 2				

Done Internet

## Basic Process Flow

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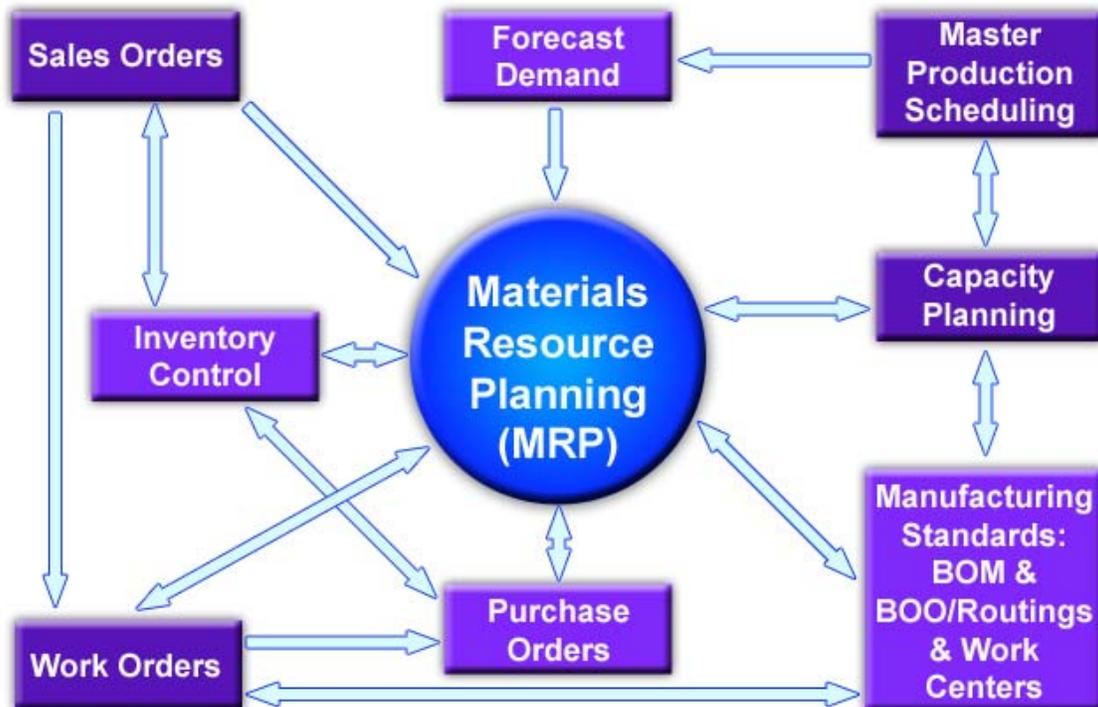
This section is a continuation of the *Application Demonstration Guide I and II* and is designed to orient you to the basic flow process through the OpenPro Manufacturing Standard Solution. We have assembled a series of related screenshots to illustrate a logical sequence of business scenarios. We hope you find the scenarios to be useful. Feel free to test them yourself. Your evaluation database comes pre-loaded with the same sample data used to generate the screen shots in this section.

The basic flow starts with Manufacturing Bill of Materials, Routings, Exploded Bills, Inventory Items Setup, Sales Order Manufacturing configurator, and Work Order processing and scheduling.

The key corporate benefits for ERP Manufacturing modules are as follows:

- Reduce Inventories, increase inventory turns and increase ability to meet clients demands.
- Increase production capacity and improve asset use thereby reducing unnecessary capital expenditures.
- Increase profits by improving productivity and reducing cost through minimal scrap and manufacturing waste.
- Catch costing trends before they happen through automatic data checking and warning system when going out of tolerance.
- Lower cost by optimizing production.
- Increase utilization through scheduling optimization.
- Improve customer service with faster lead times and on-time deliveries.

# Manufacturing Process Flow



## Getting Started with Manufacturing Standards

After you Login, go to the Manufacturing sub menu:

The screenshot shows a Microsoft Internet Explorer browser window displaying the OpenPro web application. The browser's title bar reads "Sandburg Bike Company - Bill of Materials - Microsoft Internet Explorer". The address bar shows the URL "http://www.openpro.com/asp/demo49/frames.php".

The application interface features a navigation menu on the left side with the following items:

- In Process
- Admin
- Assist Import
- Bank Reconciliation
- Contacts (CRM)
- Document Imaging
- E-Commerce
- Executive Dashboard
- Fixed Asset
- General Ledger
- Inventory Control
- Job Costing
- Manufacturing (ERP)
  - Activity
  - Maintenance
  - Reports
    - Bill of Materials
    - Bill of Ops
    - BOM Indented
    - Item Find
    - MFG Calendar
    - Work Orders
- Payables
- Payroll
- Point Of Sale
- Purchase Order
- Receivables
- Reports

The main content area displays the "OpenPro" logo at the top left and the text "Your, Administrator 02/02/2006 11:03:01" at the top right. Below the logo, the text "OpenPro.com v4.9 DEMO" and "Bill of Materials" is visible. A search form is present with the label "Item Number" and a text input field. To the right of the input field are the links "Get Bill of Materials" and "Search Items".

At the bottom of the page, the copyright notice reads "Copyright©1999-2005 by OpenPro, Inc. All rights reserved." and the "Internet" icon is visible in the taskbar.

## Getting Started with Manufacturing Bill of Materials

The first screen is the Bill of Materials, use FG100 as the example item:

OpenPro.com v4.9 DEMO Bill of Materials

Bill of Materials  
Part # FG100  
Name FG100 OpenPro Mountain Bike  
Description FG100 OpenPro standard model  
Unit of Measure Each

Plans Image  Browse... Show Current

SEL	Seq No	Part Number	Description	UDM	Issue Method	Qty Per	Scrap Percent	Effective Date	Expire Date	ECN No
<input type="radio"/>	10	RM1200	METAL HANDLE	Each	Call	1.00000	0.00000	04/29/2004		
<input type="radio"/>	20	RMSTEEL	RAW STEEL BARS	Pound	Call	1.23000	0.00000	05/05/2004		
<input type="radio"/>	30	RM2001X4	RAW WOOD 1 X 4	Feet	Call	4.50000	50.00000	05/05/2004		
<input type="radio"/>	40	RM1001	SHEET METAL	Pound	Call	32.33324	0.00000	05/05/2004		
<input type="radio"/>	50	RMP999	Ramp expanded	Each	Call	1.00000	0.00000	02/25/2005		
<input type="radio"/>	60	d1000	D1000 Special Roll Metal	Each	Call	4.44444	0.00000	09/12/2005		

SAVE

OpenPro Bill of Material features include:

- \* Unlimited number of levels of Bill of Material.
- \* Quantity Per can be up to 8 decimals to the right of the decimal place.
- \* Handles phantom bills, soft bills, flow through bills, and back flushing.
- \* Keep track of scrap percent and costing, based upon both the engineering standard and actual.
- \* Engineering change control (ECN) to maintain bills of materials.
- \* Shows pictures of the engineering drawing.

OpenPro has a built-in complete manufacturing Bill of Materials that also integrates with the configurator.

## Getting Started with Manufacturing Bill of Materials

When you select BOM Indented, select “part number” and type in FG100, then enter in the quantity required.

Sandburg Bike Company - BOM Indented - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Printers

Address http://www.openpro.com/asp/demo49/frames.php Go Links

**OpenPro**

Your, Administrator 02/02/2006 11:04:19

OpenPro.com v4.9 DEMO BOM Indented Logout Help Manual Support Home

Search For: fg100  Show Sub-B.O.M.s  Show available (Inventory)

By

Item Name Quantity to Manufacture 1  Show Cost

Part #

Vendor #

Price

Manufacturer #

Weight

UPC #

Item Category - choose one -

Find Item

OpenPro

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Done Internet

## Getting Started with Manufacturing Bill of Material Exploded Bill

When you select BOM Indented, select “part number” and type in FG100, then enter in the quantity required.

OpenPro Bike Company - Mozilla Firefox

OpenPro.com v6.0.0 DEMO (Language: English) Logout Help Manual Support Home

Your, Administrator 11/02/2009 13:47:35

**Item FG100** FG100 OpenPro Mountain Bike  
 FG100 OpenPro standard model This is more detail for this item

Location Inventory : 1456  
 Overall Inventory : 3610  
 Unit of Measure : Each  
 Quantity Needed : 1

[±]	Sequence #	Item #	Description	Unit Of Measure	# per Unit	Extended	Location Inventory	Total Inventory	Standard Cost	Rollup Cost [±]
		<b>Operation Work Center</b>								
	10		Edge Mill Operations Bending work center						2.92000	2.92000
	20		Chassis Assembly						0.00000	0.00000
	30		Chassis Assembly Cutting Work Center						1.68000	1.68000
	40		Edge Mill Operations Cutting Work Center						31.80000	31.80000
	50		Edge Mill Operations Bending work center						6.61000	6.61000
[±]	10	RM1200	METAL HANDLE RM1200 Metal handle bars	Each	1.00000	1.00000	157.00000	171.00000	1.25600	
	20	BMSTEEL	RAW STEEL BARS RAW STEEL BARS	Pound	1.23000	1.23000	1120.32000	1120.32000	1.50060	1.50060
[±]	30	RM2001Xd	RAW WOOD 1 X 4 RAW WOOD	Feet	4.50000	4.50000	115.50000	126.50000	10.44000	10.44000
[±]	40	RM1001	SHEET METAL	Pound	32.33324	32.33324	1441.00000	1441.00000	7.30731	
[±]	50	d1000	D1000 Special Roll Metal	Feet	4.44444	4.44444	249.60000	413.60000	80.97770	
	60	RM21111	RM21111 PAINT COLORS	Each	2.22000	2.22000	0.00000	0.00000	0.02220	0.02220
									<b>Total Cost</b>	101.50381 884.62202
									<b>Variable Overhead</b>	2.33459 20.34631
									<b>Fixed Overhead</b>	2.01993 17.60398
									<b>Grand Total Cost</b>	105.85832 922.57230

**Total WO Parts View (OpenPro Samburg Bike Company)**

Part	Part Name	Projected Work Order Quantity	Total Currently Available	Total Anticipated Changes	Net	Resulting Inventory
RM1001	SHEET METAL	44.73312	1441.00000	0.00000	1441.00000	1396.26688
RM1200	METAL HANDLE	1.00000	157.00000	0.00000	157.00000	156.00000

The top portion shows the exploded Bill of Materials. It also explodes the quantity required. The box below shows the material required to complete the quantity of 100 and in red shows the shortages of inventory.

## Getting Started with Manufacturing Bill of Material Where Used

When you select Item Find, select “Item Category Raw Materials”:

The screenshot displays the OpenPro Item Find application window. The main content area shows a table of items with the following columns: Part #, Price, Weight, Stock, and UPC #. The table lists various items, including Mountain Bikes and custom parts, with their respective prices and weights. The interface also features a navigation menu on the left and a toolbar at the top with various action buttons.

Part #	Price	Weight	Stock	UPC #	ACTIONS
5469-0	100.00000	5.500	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem11	100.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem10	50.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
OpenPro Mountain Bike	FG100	100.00000	5.500	3610 01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
OpenPro Mountain Bike 2copy	FG1002copy	100.00000	5.500	0 01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
OpenPro Mountain Bike COPY	FG100COPY	100.00000	5.500	0 01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
Large Mountain Bike	FG200	995.00035	7.500	8894 45671233211	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
Storm Mountain Bike	FG300	1875.00000	10.000	42 890812312313	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
Storm electric Bike	FG400	15547.00000	35.000	38 907907123123	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
OpenPro Mountain Bike	FG650	100.00000	5.500	0 01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
ping bike 900	FG900	100.00000	0.000	11 12312333	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
BACK OPS CUSTOM	FG950C	100.00000	5.500	0 01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem12	200.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem13	1000.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem5	400.00000	50.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem6	55.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem7	400.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem8	500.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM
newitem9	200.00000	0.000	0		INFO EDIT INV ADJ INV AVAIL MRP REQ DEF BOM

## Getting Started with Manufacturing Bill of Material Where Used

When you select Item Find, select “Item Category Raw Materials”.

Select item Metal Handle RM1200:

The screenshot displays the OpenPro web application interface. The browser window title is "Sandburg Bike Company - BOM Indented - Microsoft Internet Explorer". The address bar shows "http://www.openpro.com/asp/demo49/frames.php". The main content area features the OpenPro logo and a navigation menu on the left. The menu includes categories like "In Process", "Admin", "Assist Import", "Bank Reconciliation", "Contacts (CRM)", "Document Imaging", "E-Commerce", "Executive Dashboard", "Fixed Asset", "General Ledger", "Inventory Control", "Job Costing", "Manufacturing (ERP)", "Payables", "Payroll", "Point Of Sale", "Purchase Order", "Receivables", and "Reports". Under "Manufacturing (ERP)", the "Item Find" option is selected. The main content area displays a table of BOM items for "METAL HANDLE" (Part # RM1200). The table has columns for Item Name, Part #, Vendor #, Price, Manufacturer #, Weight, Stock on Hand, UPC #, and ACTIONS. The table shows two rows: "D1000 Special Roll Metal" and "METAL HANDLE".

Item Name	Part #	Vendor #	Price	Manufacturer #	Weight	Stock on Hand	UPC #	ACTIONS
D1000 Special Roll Metal	d1000	0	4.00000		0.000	2415		Show B.O.M.
METAL HANDLE	RM1200	METAL HANDLES	0.00000	MH1200	4.000	515	upc1	Show B.O.M.

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Click on “BOM” and you see where this item is being used in the BOM:

**OpenPro**  
Your, Administrator 02/02/2006 11:05:52  
OpenPro.com v4.9 DEMO Logout Help Manual Support Home

Item RM1200 METAL HANDLE  
testdesc  
testdesc2

Location Inventory: 500  
Overall Inventory: 515  
Unit of Measure: Each  
Quantity Needed: 1

Seq #	Item #	Description	Unit Of Measure	# per Unit	Extended	Location Inventory	Total Inventory	Total Cost
10	RMSTEEL	RAW STEEL BARS RAW STEEL BARS	Pound	1.000	1.000	476.850	476.850	22.44
20	RM1001	SHEET METAL	Pound	1.756	1.756	55.000	21470.000	175.60
<b>Total Cost</b>								198.04

**Total WO Parts View (OpenPro Samburg Bike Company)**

Part	Part Name	Projected WO Quantity	Total Currently Available	Total Anticipated Changes	Net	Resulting Inventory
RM1001	SHEET METAL	1.756	55.000	-40.000	15.000	13.24
RMSTEEL	RAW STEEL BARS	1.000	476.850	-5.000	471.850	470.85

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## Getting Started with Manufacturing Bill of Operations or Routings

From the menu select “Bill of Operations”. Enter in FG100 item number, then click “update”. The system will display the following BOO records:

The screenshot shows the OpenPro software interface for editing a Bill of Operations (BOO). The browser window title is "Sandburg Bike Company - Bill of Ops - Microsoft Internet Explorer". The address bar shows "http://www.openpro.com/asp/demo49/frames.php".

The main content area displays the "Bill of Operations" form for item "FG100 BO05456". The form includes fields for "Bill of Operations Name", "Revision #", and "Operation Plan Image". Below the form are icons for "cut", "up", "down", "add", "save", and "print".

A table of BOO records is displayed below the form:

SEL	Seq No	Std Oper.	Work Center	Description	Effective	Expires	Setup Times	Run Time	Update Oper
<input checked="" type="radio"/>	10	Chassis Asse	Cutting meta	- Take sheets of Metal and cut into 2.5' by 4.2'	Over 3000	Already	2.000	1.000	
<input type="radio"/>	20	Edge Mill Op	Cutting meta	2134123	Always	Never	22.433	34.440	
<input type="radio"/>	30	Edge Mill Op	Metal Shapin			Never	43.660	54.000	

The detailed view for the selected BOO (Seq No 10) shows the following information:

- Standard Operation:** Chassis Assembly
- Description:** - Take sheets of Metal and cut into 2.5' by 4.2'
- Work Center:** Cutting metal
- Tooling/Machine:** Paint Bake
- Effective:** Over 3000
- Expires:** Already
- Setup Time (mins):** 2.000
- Run Time (mins):** 1.000
- Instructions:**
  - Setup machine for program CUT BED FG100
  - Run test sample size (2)
  - Q.C test sample size

Buttons for "Report Setup Time Cost as" and "Report Run Time Cost as" are also visible, both set to "Indirect fixed".

You can drill down to the details of each operation and see detail records.

## Getting Started with Manufacturing Product Configuration in Order Entry

From the menu select “Sales Order, Add Order”. Search for a customer then select “New Order”:

The screenshot shows the OpenPro software interface. The main window displays a table of customer information. The table has the following columns: Name, Reference #, Company, Phone #, City, State, and Actions. The Actions column contains buttons for NEW ORDER, MORE INFO, CHANGE, and INVOICES. The table lists several customers, including Harry Frank, Computer Management Services, Sandy Toy Company, Gallo Bike Company, Goose Bike Company, Scene Tours Inc, Hillinburg Co, AMETHYST Grinding Co, ASDF company, Computer Bike Services LLC, Rocky and Road, General sales Corp, Smarty Company, Coconut Oil Dist CO, and OpenPro demo customer.

Name	Reference #	Company	Phone #	City, State	Actions
	28	Harry Frank company	898423342323	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
	458	Computer Management Services L	8005335595	Westbrook, CT	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Beach, Sandy	2	Sandy Toy Company	8982324567	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
gill, Gallo	5433tt	Gallo Bike Company	6549883466	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
goose, gander	30	Goose Bike Company	7894326788	san nono, AK	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Hallinburten, Michael	8	Scene Tours Inc	1234567891	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Hillinburg, Michael	7	Hillinburg Co	1234567890	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Kleeman, Hinto	234T5	AMETHYST Grinding Co	8212904455	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Lastname, Harry	666u	ASDF company	345345345	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Mathers, Harry	458HR	Computer Bike Services LLC	800-533-0595	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Rocky, James	470	Rocky and Road	617-965-5959	Newton, MA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Sales, Sally	1	General sales Corp	2137869009	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Smarty, Marty	480	Smarty Company	7142251331	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Smith, Frank	6	Coconut Oil Dist CO	7149642140	Fountain Valley, CT	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>
Smith, Harry	23	OpenPro demo customer	7143784603	Fountain Valley, CA	<input type="button" value="NEW ORDER"/> <input type="button" value="MORE INFO"/> <input type="button" value="CHANGE"/> <input type="button" value="INVOICES"/>

Below the table, there is a "New Search" button.

Under Category Items select “bikes”, then select “FG100” (First Selection). This will give a detailed description of the item, along with add-on items to upsell.

The screenshot shows a Microsoft Internet Explorer browser window displaying a product page for 'FG100 OpenPro Mountain Bike'. The browser's address bar shows the URL: <http://www.openpro.com/asp/demo49/frames.php>. The page title is 'Sandburg Bike Company - Microsoft Internet Explorer'. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar contains icons for Back, Forward, Stop, Home, Search, Favorites, and other utilities. The address bar also includes a search box and a 'Go' button.

The main content area of the browser displays the product page. At the top, there is a search bar with a dropdown menu set to 'By: Name' and an 'Advanced Search' button. Below the search bar, the breadcrumb navigation reads 'Warehouse -> Bikes -> FG100 OpenPro Mountain Bike'. The product name 'FG100 OpenPro Mountain Bike' is displayed in blue text, followed by a small image of the bicycle. Below the image, the text reads 'FG100 OpenPro standard model test descr 2'. The 'Product Info:' section lists the following details: UPC: 01238882231, Mfr: OpenPro Toy Company 1, MfrNum: Manufacture#, PartNum: FG100, Weight (lb): 5.500, and Retail: 100.00. To the right of these details, the 'Color: Yellow', 'Size:', 'Style:', and 'Height:' are listed. Below the product info, it states 'Items in Stock: 0'. The 'Purchasing Info:' section includes an 'Add to Cart' button and the price '\$100.00'. A 'Notes:' section contains the text 'DOT INFORMATION TO PRINT UP ON THE SHIPPING PAPERS'. The 'Products to suggest:' section lists three items: 'Power Opticube' (Retail: 89.00000, Stock: 0, Check Stock button, Add to Cart button), 'Racing Bars Aluminum bar' (Retail: 110.00000, Stock: 0, Check Stock button, Add to Cart button), and 'Airflex saddle' (Retail: 79.00000, Stock: 54, Check Stock button, Add to Cart button). The 'enpro' logo is visible in the bottom right corner of the product page.

The left sidebar of the browser contains a navigation menu with the following items: Contacts (CRM), Document Imaging, E-Commerce, Executive Dashboard, Fixed Asset, General Ledger, Inventory Control, Job Costing, Manufacturing (ERP), Payables, Payroll, Point Of Sale, Purchase Order, Receivables, Reports, Rules Setup, Sales Orders, Customers, History, Maintenance, Reports, RMA, Wizard, Add order, Customer Search, Process Services, Search Invoices, Search Quotes, SO Shipments, The End of Day, Tech Knowledge, and Work Flows. The bottom of the browser window shows the status bar with the text 'Copyright@1999-2005 by OpenPro, Inc. All rights reserved.' and the 'Internet' icon.

## Getting Started with Manufacturing Product Configuration in Order Entry

When adding the items to the sales order, you can create an immediate work order by clicking on the “line item show” button, then click on “Add W.O.” link. The Bill of Material and routing will be exploded and a new Work Order will be created. (Items must be setup to process work orders before creating work orders during a sale.)

The screenshot displays the OpenPro software interface within a Mozilla Firefox browser window. The main window title is "OpenPro Bike Company - Mozilla Firefox". The interface includes a navigation menu on the left with categories like "Assist Import", "Bank Reconciliation", "CMMS Machines", "Contacts (CRM)", "Document Imaging", "Ecommerce", "Executive Dashboard", "Fixed Asset", "General Ledger", "Inventory Control", "Job Costing", "Manufacturing (ERP)", "Payables", "Payroll", "Point Of Sale", "PR Time Cards", "Purchase Order", "Receivables", "Rules Setup", "Sales Orders", "Customers", "History", "Maintenance", "Reports", "Reports...", "RMA", "Templates", and "Wizard".

The main content area shows the "OpenPro" logo and a header with the text "OpenPro.com v6.0.0 DEMO (Language: English) Logout Help Manual Support Home". Below this, there is a store information section: "Store: DEMO", "Quote: 5506", "Phone Order", "6 Mr. Smith, Frank DD", "Cocanut Oil Dist CO", "Fountain Valley, CT", "November 2, 2009 1:49 PM", and "Entered By: Administrator Your". There are buttons for "DETAIL", "DOCUMENT", "OPEN BOOK", "NOTE", "SEE NOTE", "+SCREEN", and "PAINT".

The main table displays the following data:

Keep	Line	Item	Type	Item Name	Part #	Quantity	Details	Discount	Unit Price	Total Price
<input checked="" type="checkbox"/>	0001		+	Activation	EG100 OpenPro Mountain Bike	EG100	1.00	SHOW	90.00000	90.00

Below the table, there are buttons for "update", "Place Order", and "Invoice Order". A "Discount Amount" field is set to 0.00, and a "Total" field is 90.00. There is a checkbox for "Override Discount Amount". The "Shipping" dropdown is set to "UPS - Customer Pickup Pickup - 0.00" with a "0.00" value. The "Tax Code" is "CAOR - CALIFORNIA ORANGE COUNTY" with a "7.20" value. The "Total Weight" is 5.50, "Rebate" is 0.00, and the "Grand Total" is US\$97.20. There are input fields for "Quick Add", "Input Part #", and "Input serial".

Below the table, there are search and filter options: "Show only stock", "Show 20", "Sort By: Name", "Change Options", "By: Name", "Search", "MATRIX", "IMPORT CSV", and "ADVANCED SEARCH".

The bottom section shows a list of suggested items with "Add to Cart" buttons:

- Add to Cart** 5469-0 Price:100.00 Manufacturer: UPC Code: Weight: 5.500 Retail Value: 100.00 Part Number: 5469-0 Mfr. Number: 6925 Stock: 0
- Add to Cart** fadffad Price:100.00 Manufacturer: UPC Code: Weight: 0.000 Retail Value: 100.00 Part Number: newitem11 Mfr. Number: Stock: 0
- Add to Cart** fadffadfad Price:50.00 Manufacturer: UPC Code: Weight: 0.000 Retail Value: 50.00 Part Number: newitem10 Mfr. Number: Stock: 0
- Add to Cart** EG100 OpenPro Mountain Bike Price:100.00 Manufacturer: OpenPro Toy Company 1 UPC Code: 01238882231 Weight: 5.500 Retail Value: 100.00 Part Number: FG100 Mfr. Number: Manufacture# Stock: 1456
- Add to Cart** EG100 OpenPro Mountain Bike 2copy Price:100.00 Manufacturer: OpenPro Toy Company 1 UPC Code: 01238882231 Weight: 5.500 Retail Value: 100.00 Part Number: FG1002copy Mfr. Number: Manufacture# Stock: 0

## Getting Started with Manufacturing Work Order Processing

After we created a work order from the sales order, from the menu go to Manufacturing, Work Orders and then click on “Find Work Order”.

From this list you can sort by any top menu item by clicking on the field header area. We sorted the list by work order number and selected work order 71, as an example.

The screenshot shows the OpenPro Manufacturing Work Orders interface. The sidebar menu on the left includes categories like Assist Import, Bank Reconciliation, CMMS Machines, Contacts (CRM), Document Imaging, Ecommerce, Executive Dashboard, Fixed Asset, General Ledger, Inventory Control, Job Costing, Manufacturing (ERP), Activity, Costing Update, CRP Capacity, Engineering Change, Maintenance, MPS Process, MRP Process, Quality, Reports, SFC Process, Bill of Materials, Bill of Ops, BOM Indented, Calendar Plan, Item Find, MFG Calendar, MFG Calendar Master, Production Report, SFC Calendar, Work Orders, Payables, Payroll, Point Of Sale, PR Time Cards, Purchase Order, Receivables, Rules Setup, Sales Orders, Tech Knowledge, and Warranty Service.

The main content area features the OpenPro logo and a search form for work orders. The search form includes fields for Part #, Item Name, Work Order Number, Project, Sub-Pro, Item Category, Min Start Date, Min Due Date, and Creator Representative. There are also checkboxes for 'Fast' and 'Edit Rows Inline', and a 'Find Work Order' button.

Below the search form is a table titled 'Work Orders' with the following columns: Work Order #, Item #, Item Name, Work Order Quantity, Work Order Start, Work Order Due, Creator Representative, Sales Order, Order Status, Priority, and Sales Quantity. The table is sorted by Work Order #. The selected work order is 71, which is 'FG200 Deluxe Mountai'.

Work Order #	Item #	Item Name	Work Order Quantity	Work Order Start	Work Order Due	Creator Representative	Sales Order	Order Status	Priority	Sales Quantity
9	FG100	OpenPro Mounta	5.00	11/06/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.	High	0.00
18	FG100	OpenPro Mounta	100.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.		0.00
23	FG300	Custom Mountai	1.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.		0.00
32	FG300	Custom Mountai	555.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.	High	0.00
59	FG300	Custom Mountai	200.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.	High	0.00
61	FG200	Deluxe Mountai	100.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.	High	0.00
67	FG200	Deluxe Mountai	18.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.	High	0.00
103	OT1001	Airflex saddle	10.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.		0.00
107	FG100	OpenPro Mounta	140.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.	High	0.00
110	FRL0T	Lot Controlled Finis	1000.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.		0.00
111	FRL0T	Lot Controlled Finis	100.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.		0.00
168	FG100	OpenPro Mounta	6342.00	11/04/2009 00:00:00	11/13/2009	Administrator Your		W.I.P.	High	0.00

## Getting Started with Manufacturing Work Order Processing

Then you can drill down and see the detail work order by clicking “edit”.

The screenshot displays the OpenPro Manufacturing Work Order Processing interface. The browser window title is "OpenPro Bike Company - Work Orders". The browser address bar shows "OpenPro.com v6.0.0 DEMO (Language: English) Logout Help Manual Support Home". The page header includes "OpenPro" and "Your, Administrator 11/02/2009 13:49:52".

The main content area displays "Work order : 18" with the following details:

- Type: Build
- Part #: FG100
- Revision #: [Field]
- Name: FG100 OpenPro Mountain Bike
- Description: FG100 OpenPro standard model This is more detail for this item
- Customer: Sandy Toy Company
- Unit of Measure: Each
- Warehouse: OpenPro Samburg Bike Company
- Lead Time: 0
- Quantity Ordered: 100.00
- Quantity Completed: 0.00
- Due Date: 11/13/2009
- Start Date / Time: 11/04/2009 00:00:00
- Completed Date: [Field]
- Priority: High

The interface includes a sidebar with navigation options such as Assist Import, Bank Reconciliation, CMMS Machines, Contacts (CRM), Document Imaging, Ecommerce, Executive Dashboard, Fixed Asset, General Ledger, Inventory Control, Job Costing, Manufacturing (ERP), Payables, Payroll, Point Of Sale, PR Time Cards, Purchase Order, Receivables, Rules Setup, Sales Orders, and Tech Knowledge.

The bottom of the page shows "Copyright©1999-2009 by OpenPro, Inc. All rights reserved."

The work order can create a “shop traveler and pick” list for manufacturing.

**Sandburg Bike Company - - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

### Manufacturing Pick List

Work Order #: 9 | [Barcode]

Item: FG100 | [Barcode]

FG100 OpenPro Mountain Bike FG100 OpenPro standard model

**Warehouse:** DEMO OpenPro Samburg Bike Company      **Date:** 06/04/2004

**Unit of Meas.:** Each      **Status:** W.I.P.

**Qty Ordered:** 5.00      **Start Date:** 05/19/2006

**Qty Completed:** 0.00      **Due Date:**

**Customer:** joe Smith      **Reference:** 904451

Part Number Description	Qty Required	Qty Issued	UOM	Qty to Pick	Qty Picked
<b>RM1200</b>   [Barcode] METAL HANDLE testdesc	5.00	5.00	Each	0.00	
<b>RMSTEEL</b>   [Barcode] RAW STEEL BARS RAW STEEL BARS	6.15	6.15	Pound	0.00	
<b>RM2001X4</b>   [Barcode] RAW WOOD 1 X 4 RAW WOOD	22.50	23.00	Feet	-0.50	
<b>d1000</b>   [Barcode] D1000 Special Roll Metal	5.00	5.00	Each	0.00	
<b>FG300</b>   [Barcode] FG300 Custom Mountain Bike Custom Colors Custom side rails Custom Pin Stripes	20.00	4.00	Each	16.00	
<b>FG100</b>   [Barcode] FG100 OpenPro Mountain Bike FG100 OpenPro standard model	5.00	0.00	Each	5.00	
<b>FG300</b>   [Barcode] FG300 Custom Mountain Bike Custom Colors Custom side rails Custom Pin Stripes	5.00	0.00	Each	5.00	
<b>FG300</b>   [Barcode] FG300 Custom Mountain Bike Custom Colors Custom side rails Custom Pin Stripes	5.00	0.00	Each	5.00	

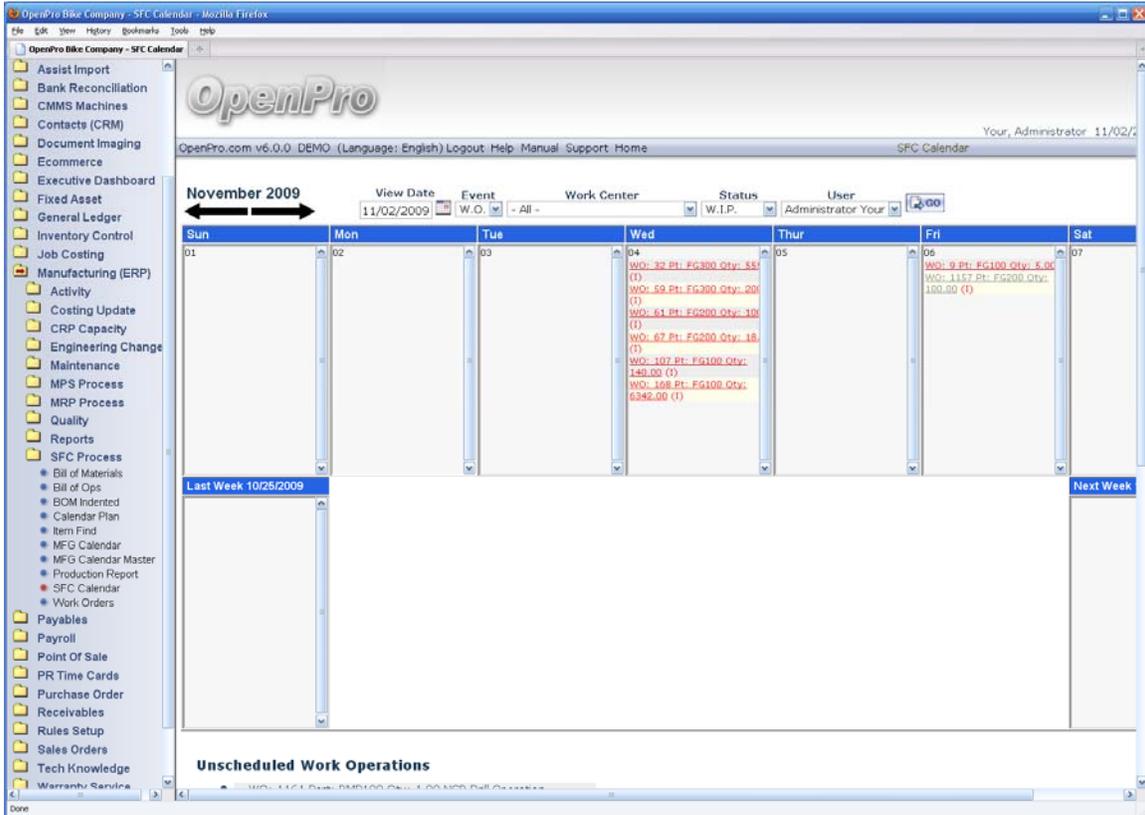


The manufacturing calendar is used for scheduling the shop orders and the work centers for each shop order.

The screenshot displays the OpenPro MFG Calendar interface. The main window shows a calendar for November 2009. The calendar is organized by days of the week (Sun to Sat). Each day contains a list of work orders (WO) and their associated quantities (Qty). The interface includes a navigation pane on the left with various menu items, a top navigation bar with the OpenPro logo and user information, and a footer with copyright information.

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			WO: 18 Pt: EG100 Qty: 100.00 (1) WO: 21 Pt: EG300 Qty: 1.00 (1)	WO: 5 Pt: EG300 Qty: 5.00 (1)	WO: 7 Pt: FG400 Qty: 10.00 (1) WO: 9 Pt: FG100 Qty: 5.00 (1) WO: 1157 Pt: FG200 Qty:	
WO: 1171 Pt: EG100 Qty: 181.00 (1) WO: 1172 Pt: RM1200 Qty: 10.00 (1)	WO: 14 Pt: EG400 Qty: 2.00 (1)	WO: 11 Pt: EG100 Qty: 400.00 (1) WO: 16 Pt: EG100 Qty: 4.00 (1)				

You can also see detail of the BOM and BOO.



The system gives you the capability to build immediate purchase orders for raw materials when you are short.

When the work order is completed, the shipping department will be notified that the sales order is ready for shipping.

## Getting Started with Manufacturing Work Order Processing

The purchase order is created by clicking on “Edit/View B.O.M.”

**Work order : 67**

Type	Build	Created by	Administrator Your
Part #	FG200	Revision #	
Name	FG200 Deluxe Mountain Bike		
Description	Deluxe Mountain Bike with wood side rails		
Customer	<a href="#">Find Customer</a> <a href="#">Find Order</a>		
Reference #			
Unit of Measure	Feet	Bill of Materials	<a href="#">Edit / View Bill of Materials</a>
Warehouse	San Bernardino	Bill of Operations	<a href="#">Edit/View Bill of Operations</a>
Lead Time	4	Quantity Ordered	18.00
Quantity Completed	2.00	Quantity Completed	New Quantity Completed
Due Date	11/13/2009	Start Date / Time	11/04/2009 00:00:00
Completed Date		Priority	High

[Generate Pick List](#)  
[Generate Routing](#)

**Production Notes**

Done

Then continue by clicking on “Add P.O.” under Order:

SAVE

Description	UOM	Issue Method	Qty Per	Projected Quantity	Scrap Percent	Actual Quantity	Actual Scrap	Ref No	BOO Seq	Order
ETAL HANDLE	Each	Pull	1.00	5.00	0.00	5.00000	2.00000		- choose -	<a href="#">View P.O.</a>
W STEEL BARS	Pound	Pull	1.23	6.15	0.00	6.15000	0.00000		- choose -	<a href="#">Add P.O.</a> <a href="#">Add W.O.</a>
W WOOD 1 X 4	Feet	Pull	4.50	22.50	50.00	23.00000	12.00000		- choose -	<a href="#">Add P.O.</a> <a href="#">Add W.O.</a>
Special Roll Metal	Each	Call	1.00	5.00	0.00	5.00000	2.00000		- choose -	<a href="#">View P.O.</a>
ustom Mountain Bike	Each	Call	4.00	20.00	2.00	4.00000	1.00000		- choose -	<a href="#">Add P.O.</a>
penPro Mountain Bike	Each	Call	1.00	5.00	0.00	0.00000	0.00000		- choose -	<a href="#">View P.O.</a>
ustom Mountain Bike	Each	Call	1.00	5.00	0.00	0.00000	0.00000		- choose -	<a href="#">Add P.O.</a>
ustom Mountain Bike	Each	Call	1.00	5.00	0.00	0.00000	0.00000		- choose -	<a href="#">Add P.O.</a>
ustom Mountain Bike	Each	Call	1.00	5.00	0.00	0.00000	0.00000		- choose -	<a href="#">Add P.O.</a>
ustom Mountain Bike	Each	Call	1.00	5.00	0.00	0.00000	0.00000		- choose -	<a href="#">Add P.O.</a>
ustom Mountain Bike	Each	Call	1.00	5.00	0.00	0.00000	0.00000		- choose -	<a href="#">Add P.O.</a>
SHEET METAL	Pound	Call	1.00	5.00	0.00	0.00000	0.00000		- choose -	<a href="#">Add P.O.</a> <a href="#">Add W.O.</a>

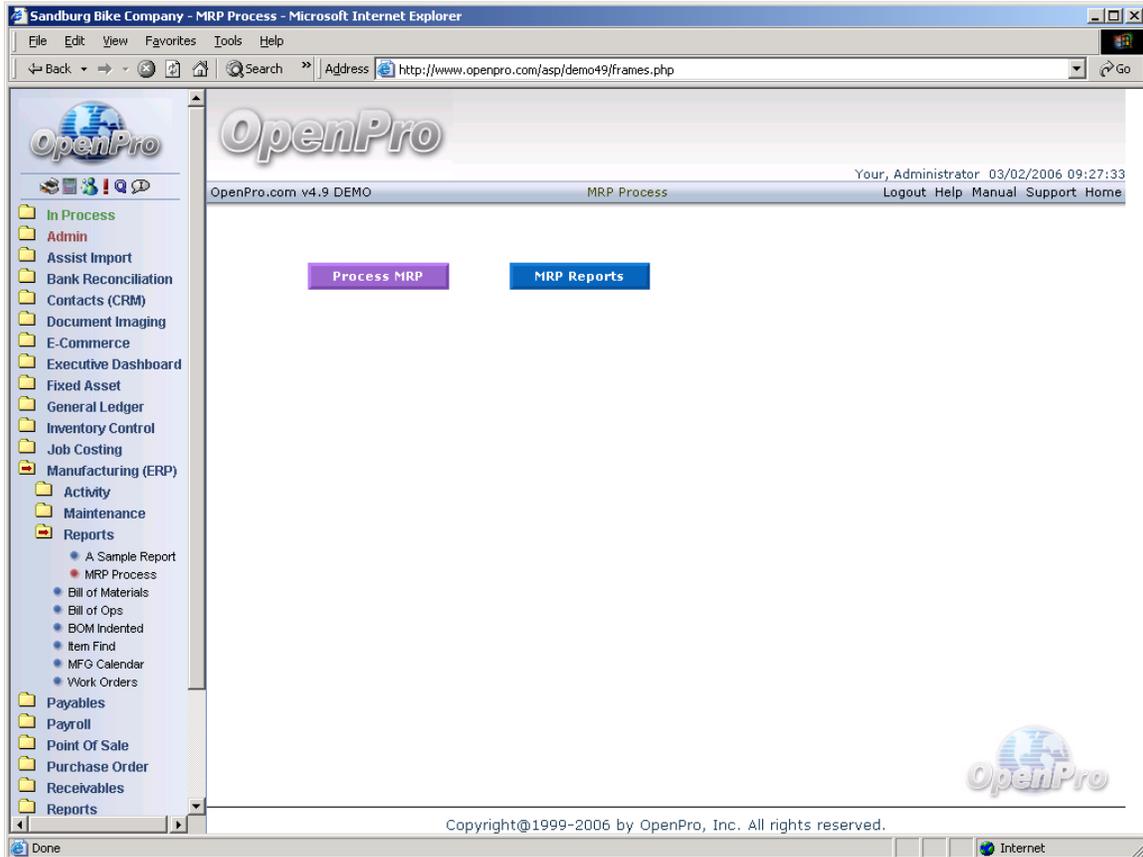
SAVE

Once “Add P.O.” is clicked, the screen will direct you to either **Create PO** or **Approve PO**.

Select Supplier Item for P.O.

Vendor	Item	Default	Quantity	Create	Create Approved
Metal Supply Company / John Steel Detail Description of item		yes	20.00	<a href="#">Create PO</a>	<a href="#">Approved PO</a>
Metal Supply Company / John Steel FG300 Custom Mountain Bike		yes	20.00	<a href="#">Create PO</a>	<a href="#">Approved PO</a>

The MRP process will generate shop orders and purchase orders based upon requirements, planned orders and/or regular sales orders.



OpenPro can run both net change and regen MRP processes.

Below is a sample of the MRP report that comes out of the system:

Back

File contents:

MRP Report for 2006-02-15 21:10:36:

Location Code: DEMO, Planner Code: 101

FG100 (FG100 OpenPro Mo)	Past Due	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
22 day lead time							
Inventory	120	95527	95527	95527	95527	95527	95527
Sales Order	195	0	0	0	0	0	0
Forecast Order	0	0	0	0	0	0	0
Work Order	95597	0	0	0	0	0	0
Purchase Order	5	0	0	0	0	0	0
Calc. PO Balance	0	0	0	0	0	0	0
Calc. WO Balance	0	0	0	0	0	0	0
Calc. Stock	95527	95527	95527	95527	95527	95527	95527
d1000 (D1000 Special Ro)	Past Due	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
0 day lead time							
Inventory	2256	323097.07	323097.07	323097.07	323097.07	323097.07	323097.07
Sales Order	0	0	0	0	0	0	0
Forecast Order	0	0	0	0	0	0	0
WO Requirements	95597	0	0	0	0	0	0
Purchase Order	345	0	0	0	0	0	0
Calc. PO Balance	0	0	0	0	0	0	0
Calc. WO Balance	0	0	0	0	0	0	0
Calc. Stock	323097.07	323097.07	323097.07	323097.07	323097.07	323097.07	323097.07
RMP999 (Ramp expanded: )	Past Due	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
0 day lead time							
Inventory	0	-95597	-95597	-95597	-95597	-95597	-95597
Sales Order	1	0	0	0	0	0	0
Forecast Order	0	0	0	0	0	0	0
WO Requirements	95597	0	0	0	0	0	0
Purchase Order	0	0	0	0	0	0	0
Calc. PO Balance	0	0	0	0	0	0	0
Calc. WO Balance	0	0	0	0	0	0	0
Calc. Stock	-95597	-95597	-95597	-95597	-95597	-95597	-95597
RM1001 (SHEET METAL: )	Past Due	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
0 day lead time							
Inventory	55	1616257.04	1616257.04	1616257.04	1616257.04	1616257.04	1616257.04

Done Internet

An inquiry is generated for immediate MRP of an item.

The screenshot displays the OpenPro software interface. The main window is titled 'OpenPro Bike Company - Item Find'. The interface includes a sidebar with a navigation menu, a header area with the 'OpenPro' logo and user information, and a central table of 'Selected Items'. Below the table is a 'New Search' link and a footer with copyright information.

Item Name	Part #	Price	Weight	Stock	UPC #	ACTIONS
FG100 OpenPro Mountain Bike	FG100	100.00000	5.500	3610	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG100 OpenPro Mountain Bike 2copy	FG1002copy	100.00000	5.500	0	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG100 OpenPro Mountain Bike COPY	FG100COPY	100.00000	5.500	0	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG200 Deluxe Mountain Bike	FG200	995.00035	7.500	8894	45671233211	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG300 Custom Mountain Bike	FG300	1875.00000	10.000	42	890812312313	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG400 Custom electric Bike	FG400	15547.00000	35.000	38	987987123123	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG650 OpenPro Mountain Bike	FG650	100.00000	5.500	0	01238882231	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG900 Racing bike 900	FG900	100.00000	0.000	11	12312333	INFO EDIT INV ADJ INV AVAIL MRP REQ DE
FG950 BLACK OPS CUSTOM	FG950C	100.00000	5.500	0	01230002231	INFO EDIT INV ADJ INV AVAIL MRP REQ DE

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This can report daily or weekly schedules.

Sandburg Bike Company - - Microsoft Internet Explorer

Planned     
      
 Location:      

Forecast:  
  none  
  Item  
  by Category  
  by Partial  
  Wildcard

MRP View Close Window

Item: FG100 - FG100 OpenPro Mountain Bike

Date	Running Balance	MFG WIP	MFG Plan	Sales Orders	Forecast Orders
3/2/2006	870.00	0.00	0.00	15000.00	0.00
3/9/2006	15870.00	0.00	0.00	0.00	0.00
3/16/2006	15870.00	0.00	0.00	0.00	0.00
3/23/2006	15870.00	0.00	0.00	0.00	0.00
3/30/2006	15870.00	0.00	0.00	0.00	0.00
4/6/2006	15870.00	0.00	0.00	0.00	0.00
4/13/2006	15870.00	0.00	0.00	0.00	0.00
4/20/2006	15870.00	0.00	0.00	0.00	0.00
4/27/2006	15870.00	0.00	0.00	0.00	0.00
5/4/2006	7070.00	0.00	0.00	2200.00	0.00
5/11/2006	4985.00	115.00	0.00	0.00	0.00
5/18/2006	5100.00	0.00	0.00	0.00	0.00
5/25/2006	95205.00	5.00	0.00	45045.00	0.00
6/1/2006	134255.00	0.00	0.00	1696.00	0.00
6/8/2006	132559.00	0.00	0.00	0.00	0.00
6/15/2006	132559.00	0.00	0.00	0.00	0.00
6/22/2006	132559.00	0.00	0.00	0.00	0.00
6/29/2006	132559.00	0.00	0.00	0.00	0.00
7/6/2006	132559.00	0.00	0.00	0.00	0.00
7/13/2006	132559.00	0.00	0.00	0.00	0.00
7/20/2006	132559.00	0.00	0.00	0.00	0.00
7/27/2006	132559.00	0.00	0.00	0.00	0.00
8/3/2006	132559.00	0.00	0.00	0.00	0.00
8/10/2006	132559.00	0.00	0.00	0.00	0.00
8/17/2006	132559.00	0.00	0.00	0.00	0.00

Done Internet

We would be happy to answer any additional questions you may have about this module. You can reach us by phone (714) 378-4600, email or live web support.

Thank you again for your interest in OpenPro. Your ideas and suggestions are always welcome.



**OpenPro ERP Software**

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