



OpenPro Manufacturing and labor processing options

When posting transaction with Manufacturing several options are available.

The Bill of Operations or Routing is used for calculating labor standards.

Name: Make this bike as a KIT
Description: Custom Bike Configurator with Options!

Bill of Operations MYKIT [item]

Revision #

Name **Begin Date** **End Date**

Operation Plan Image No file selected. [View current](#)

SEL	Sequence No	Standard Operations	Work Center	Machine	Description	Piece Rate	Effective	Expires	Setup Times	Run Time	Time UOM	Rate	Labor	Update Operations
<input type="radio"/>	10	Chassis Asse	ASSEM - ASSE		Assembly	2.50	Always	Never	20.00000	20.00000	Minutes	12	10.5	<input type="button" value="DETAIL"/>
<input type="radio"/>	20	packaging of	PKG - Packag		packaging of the product	0.00	Always	Never	0.00000	60.00000	Minutes	12	12	<input type="button" value="DETAIL"/>
						2.50			20.00	80.00	(minutes)	\$ 22.50		

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This manual describes those options and how they work.



OpenPro Manufacturing and labor processing options

In the business rules the IC Method is used to calculate what costing method to be used in manufacturing process and inventory process.

Company Business Rules Application Settings

Are Passwords Used?	<input checked="" type="checkbox"/>	
Is Logging Used?	<input checked="" type="checkbox"/>	
Remote Help	<input checked="" type="checkbox"/>	
Remote Manual	<input checked="" type="checkbox"/>	
Account Format	99999-999	Help
Current Retained Earnings	31000-000	
Retained Earnings Accumulated	30500-000	
Accounts Payable Account	20000-000	
PO liability account	12500-000	
Accounts Receivable Account	12000-000	
Interbranch Transfer Account	40800-099	<input checked="" type="checkbox"/> Use Interbranch Account
Gain And Loss Account	40800-099	
Default Billing Rate	exec150 - 200.00 - Exec Sales	
IC Method	FIFO	<input checked="" type="checkbox"/> Post Inventory
Allow SO configurator	- choose -	<input checked="" type="checkbox"/> Auto Fix Lots
Fullfilment Company	AVG COST	<input checked="" type="checkbox"/> Use Bins in Inventory
Next ACH Batch Number	STD COST	<input type="checkbox"/> Consolidated Company
	LIFO	
Next Order#	6860	Next SO Order# 3262

Most manufacturing companies use Standard Costing(STD COST), because it standardizes the cost thru the year and at the end of the year you can calculate the difference and write off the differences.

But some use the moving average (AVG COST), First in First Out (FIFO) and Last in First out (LIFO).

Use Pay Time for Work Order

D-Direct on WO
 T-Employee Input
 H-Timecard Input

And this flag Use Pay Time for Work Orders uses time based upon is timecard means they have to clock in an out of the work order.

D – Direct will use actual time entered on the work order

T - Employee input uses time input from the Pay times table,

H – Time Card input will take the time from the time card system from the Pay Hours Table.

This is all calculated in the wo cost includes program.



OpenPro Manufacturing and labor processing options

In the business setup for the company you can have different options for overhead.

Toll Free	
Website	
Email	
City	Fountain Valley
State	CA
Zip	92708
Country	USA
Tax ID	
Local Tax Reseller Number	
Region	West Coast
Tax	0.07500
Default Sales Order Required Offset (days)	0
Fixed Overhead	1.990000
Variable Overhead	2.300000
Overhead Method	Labor Time - choose - Part Cost Machine Time Labor Time labor time/machine time/part cost
Manager	
Manager 2	
Manager 3	
Territory	Los Angeles
Till Amount	99.00
Tax Table code	CAOR - CALIFORNIA ORANGE COUNTY
Return Warehouse	DEMO - OpenPro Samburg Bike Company
Receiving Warehouse	DEMO - OpenPro Samburg Bike Company

Default Location

Bin Name	666-001
Turn off City in Default Entry	<input type="checkbox"/>
Turn off State in Default Entry	<input type="checkbox"/>
Location Type	STORES
Form Prefix	

Fixed and variable overhead rates are set in the company location table.

Based upon the company location you can select Part Cost, Machine time, Labor Time, or a combination of all three. This rule let you choose on what basis you want to use for the Fixed and Variable overhead costing.



OpenPro Manufacturing and labor processing options

Cost buckets can change and where you post the cost out of the 5 different buckets.

Based upon the manufacturing business rules

OpenPro.com v8.9.0 DEMO (Language: English) LOGOFF HELP MANUAL

Your, Administrator 05/31/20

Home Manufacturing (MRP) Maintenance Table

Search **Type Code:** Cost Buckets what cost goes where Go

Manufacturer edited successfully

List

[Add New](#)

Edit	Copy	Description	MATERIAL	OTHER	LABOR	FIXEDOH	VAROH	Note
Edit	Copy	What cost buckets go where during rollup	COST1	COST5	COST2	COST3	COST4	This gives the customer the flexibility to move the cost from bucket to bucket during rollup process

Costing for fixed overhead options and history of rate amounts

OpenPro.com v8.9.0 DEMO (Language: English) LOGOFF HELP MANUAL

Your, Administrator 05/31/20

Home Manufacturing (MRP) Maintenance Table

Search **Type Code:** Costing Fixed overhead cost per amount Go

List

[Add New](#)

Edit	Copy	Description	YEAR	OH Amount	Note
Edit	Copy	2010 year overhead	2010	0.03250	Current year and if no year noted it will be the past years and future years if you add a record in here with 20XX then it will
Edit	Copy	Current year overhead	CURRENT	0.02250	Current year and if no year noted it will be the past years and future years if you add a record in here with 20XX then it will

This rule shows historical changes for the fixed and variable overhead costing amounts for prior years.

OpenPro.com v8.9.0 DEMO (Language: English) LOGOFF HELP MANUAL

Your, Adm

Home Manufacturing (MRP) Maintenance Table

Search **Type Code:** Costing Variable overhead amount Go

List

[Add New](#)

Edit	Copy	Description	YEAR	Amount Var	Note
Edit	Copy	Costing Variable overhead cost per hrs	CURRENT	1.22225	This is the variable amount based upon time spent on the production of one unit



OpenPro Manufacturing and labor processing options

Variable rate amounts for the costing methods.

All those options change the cost you see on the items and what you see when posting work orders and inventory labor and general ledger.

Item SAVE REQ DUPLICATE NOTE SEE NOTE + SCREEN WF

Name Make this bike as a KIT **Rev #** **Status** Active

Part Number MYKIT **Model Number** label **Picture P**

Ship Reference **Sellable** **Taxable** **E-Commerce** **Superceded**

BOM **BOO** **Add Supplier** **Suppliers** **Item History** **INV** **AVAIL**

General **Dimensions** **Description** **Userdef** **Pictures** General

	Material	Labor	F.Overhead	V.Overhead	Outside	Total Cost
Cost	1890.44520	22.50000	1.44333	2.11333	0.00000	1916.50186

Inventory Tracking Regular **Inventory Class** FGItem - Finished Goods item

Price 500.000 0.000 0.000 0.000 0.000

Item Category Bikes

Image Browse... No file selected.


UPC Code 55555555543333 label

Manufacturer CUSTOM

Mfr. Number Custombike label

Vendor Number 1000 label

Color Blue **Size** 17 **Style**

Current Image: 



OpenPro Manufacturing and labor processing options

When processing a work order these options are very important

With no business rules OpenPro will only post material cost. And it will take the standard cost that is on the item and use that for the posting. If LABCOST is turned on then it will post labor cost and add it to the product cost when completing a work order.

Edit	Copy	Description	BACKFLSH	LOCATION	BFDRILL	SERIALLOT	Rounding	Note
Edit	Copy	Work Order Options	YES	YES	YES	%y%m%d%H%M%S	0.00000	Options that show up on the work order processing
Edit	Copy	update item master cost_1 field	updcost1	N	0	0	0.00000	This rule uses Y or N on location field. Y to update cost N to not update cost on item master file
Edit	Copy	jobcost	yes	.	.	.	0.00000	shows job cost linking on work order
Edit	Copy	bomindent	y	.	.	.	0.00000	display exploded bom on work order main screen with current quantities on materials
Edit	Copy	Add labor cost to the product cost	LABCOST	N	50760-000	.	0.00000	This will add the labor cost to the cost of the item
Edit	Copy	Fixed Cost Variance Account	COSTFIX	N	50755-000	.	0.00000	If the flag is turned on then all cost variance will be posted to this account, if not then no cost variance will be posted just
Edit	Copy	Cost Variance Account	COSTVAR	N	50750-000	.	0.00000	If the flag is turned on then all cost variance will be posted to this account, if not then no cost variance will be posted just
Edit	Copy	Post LIFO FIFO AVG LIKE STD	COSTSTD	N	.	.	0.00000	This will post the finish goods in as standard cost and not add up all the details cost and post to this the difference will go

If you have these business rules turned on it shows the account that Direct Labor cost will post to and if you will be posting labor as part of the work order processing.

COSTFIX and COSTVAR options are for fixed and variable overhead costing options.

With COSTSTD , If you are not using standard costing method you can still post work order using standard costing logic. Then the cost will just come from the IC item cost buckets.



OpenPro Manufacturing and labor processing options

GL Chart of accounts need to be setup before posting to the labor accounts.

maintenance							
Chart of accounts	Edit Copy	50500-000	No	Purchase discounts	P&L	Expense	Credit Summary
Fiscal Periods	Edit Copy	50600-000	No	Purchase rtms & allowncs	P&L	Expense	Credit Summary
GL Details	Edit Copy	50700-000	No	Inventory expenses	P&L	Expense	Credit Summary
GL Entry	Edit Copy	50750-000	No	Inventory Variable Labor	P&L	Expense	Credit Summary
GL Financials Div	Edit Copy	50755-000	No	Inventory Fixed Labor	P&L	Expense	Credit Summary
GL Financials Div Deb	Edit Copy	50760-000	No	Inventory Direct Labor	P&L	Expense	Credit Summary



Create a work order

Manufacturing Routing

Work Order
Part #: 1359 - MYKIT

Warehouse: DEMO OpenPro Samburg
Bike Company

Date: 05/31/2017

Unit of Meas.: Each

Status: Plan

Qty Ordered: 2.00000

Start Date: 05/31/2017

Qty Completed: 0.00000

Due Date: 05/31/2017

Customer:

Reference:

Item: MYKIT



Make this bike as a KIT

Custom Bike Configurator
with Options!

Production Notes

test cost with clockin labor

Sequence #	Work Center Std Oper.	Description	Tooling Reference	Labor Group	Setup Total Run Total	Setup Remain Run Remain
10	ASSEM Cha Assemb	ASSEMBLY WC Chassis Assembly			20.0000 40.0000	20.0000 40.0000

Instructions:

Assembly

20	PKG Package	Package packaging of the product			10.0000 120.0000	10.0000 120.0000
----	----------------	--	--	--	---------------------	---------------------

Clock in an out of the work order to add direct labor.



OpenPro Manufacturing and labor processing options

Clocking in and out of the work order calculates the actual labor applied to the work order, just like when you issue material to the work order the material cost is applied.

Costs for Work Order # **1359**, item **MYKIT**, Quantity: **2.0000** , Quantity Completed: **0.0000** [LEARN](#)

Material Costs

Sequence No	Part	Planned	Actual	Difference	% Difference	Quantity
10	ECT2CB Easton CT2 Carbon Bar	80.00	0.00	-80.00	-100.00%	0.00
20	FRCS32V Fox Racing Shox 32 Vanilla RLC	600.00	0.00	-600.00	-100.00%	0.00
30	ARLAUNCH Arrow Racing Launch	28.00	0.00	-28.00	-100.00%	0.00
40	FG100 FG100 OpenPro Mountain Bike	124.88	0.00	-124.88	-100.00%	0.00
Direct Total		832.88	0.00	-832.88	-100.00%	
Fixed Overhead		1,657.43	0.00	-1,657.43	0.00%	
Variable Overhead		1,915.62	0.00	-1,915.62	0.00%	
Total Material Cost		4,405.93	0.00	-4,405.93	-100.00%	

Labor Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
10	Chassis Assembly	Assembly department	12.00	2.33	-9.67	-415.02%
20	packaging of the product		21.67	0.00	-21.67	-100.00%
Direct Total			33.67	2.33	-31.34	-1,345.06%
Fixed Overhead			67.00	4.63	-62.37	-1,347.08%
Variable Overhead			77.44	5.35	-72.09	-1,347.48%
Total Labor Cost			178.11	12.31	-165.80	-1,346.87%

This actual is based upon the .15 of an hour logged into the work center.



OpenPro Manufacturing and labor processing options

Development
Admin
Bank Reconciliation
Contacts (CRM)
General Ledger
Inventory Control
Job Costing Projects
Manufacturing (MRP)
Payables
Payroll
Point Of Sale
PR Time Cards
 Entry For Jobs
 Entry for WSO
 Entry Work Orders
 Maintenance
 Reports
 ▶ Clock In/Out
 ▶ **PR Clock**

Home PR Time Cards **PR Clock**

Search
User: Employee: Find Time Range: 05/31/2017 05/31/2017 Search

Edit	User	Time in	Time out	Activity	Wage	Approved	Sent to PR	Notes	Delete
Edit	adminc, adminc	05/31/2017 11:30:00	05/31/2017 11:39:00	Regular Work	15.50	No <input type="checkbox"/>	No <input type="checkbox"/>	start the work order	

The clocking in and out of a work order adds labor cost to time sheet and the work order as well. The wage that post on this time card is from the standard wage cost of the Admin=>business rules→ employee reps.



OpenPro Manufacturing and labor processing options

OpenPro.com v8.9.0 DEMO (Language: English) LOGOFF HELP MANUAL Home Manufacturing (MRP) Activity WO operation update

Work Order Operation Completion Entry

Employee	adminc - adminc adminc
Work Order #	1359
WO Operation #	20
Quantity Completed	2 <input type="button" value="Save"/>
Quantity Scrap	
Machine Code	- choose -
Die Number	
Time Started	05/31/2017 12:00:00 <input type="checkbox"/> Do not update start time
Time Completed (only if complete for BOO)	05/31/2017 13:00:00 <input type="checkbox"/> Do not update completion time
Notes	
Do not update WO quantities	<input type="checkbox"/>

OpenPro Bike Company - wo_cost - - Mozilla Firefox

64.27.6.6/~opprog180/openpro2017/index.php?act=wo_cost&noheaders=true&top_id=119 120%

Costs for Work Order # 1359, item MYKIT, Quantity: 2.0000 , Quantity Completed: 0.0000 [LEARN](#)

Material Costs

Sequence No	Part	Planned	Actual	Difference	% Difference	Quantity
10	ECT2CB Easton CT2 Carbon Bar	80.00	0.00	-80.00	-100.00%	0.00
20	FRCS32V Fox Racing Shox 32 Vanilla RLC	600.00	0.00	-600.00	-100.00%	0.00
30	ARLAUNCH Arrow Racing Launch	28.00	0.00	-28.00	-100.00%	0.00
40	FG100 FG100 OpenPro Mountain Bike	124.88	0.00	-124.88	-100.00%	0.00
Direct Total		832.88	0.00	-832.88	-100.00%	
Fixed Overhead		1,657.43	0.00	-1,657.43	0.00%	
Variable Overhead		1,915.62	0.00	-1,915.62	0.00%	
Total Material Cost		4,405.93	0.00	-4,405.93	-100.00%	

Labor Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
10	Chassis Assembly	Assembly department	12.00	2.33	-9.67	-415.02%
20	packaging of the product		21.67	0.00	-21.67	-100.00%
Direct Total			33.67	2.33	-31.34	-1,345.06%
Fixed Overhead			67.00	4.63	-62.37	-1,347.08%
Variable Overhead			77.44	5.35	-72.09	-1,347.48%
Total Labor Cost			178.11	12.31	-165.80	-1,346.87%

Notice the manual entry of time like we did, is not reflected on the work order time.



OpenPro Manufacturing and labor processing options

Clock in again and using the time card processing

The screenshot shows the OpenPro v8.9.0 DEMO interface. The browser address bar indicates the user is logged in as 'adminc, adminc' on 05/31/2017 at 11:59. The navigation path is Home > Manufacturing (MRP) > Activity > Time Entry. The left sidebar contains a menu with categories: Development, Admin, Bank Reconciliation, Contacts (CRM), General Ledger, Inventory Control, Job Costing Projects, Manufacturing (MRP), Activity, Time Entry, WO operation Reject Qty update, WO operation update, Work Order Issue, Work Orders SFC list, Work Orders SFC Status limit, Work Orders Status limit, Work Orders Status List, Costing Update, and CRP Capacity. The main content area is titled 'Time Card Entry' and contains the following form fields:

Employee	adminc adminc
Start Time	05/31/2017 11:59
Location	OpenPro Samburg Bike Company
Activity	Regular Work
Work Order #	1359
WO Operation #	20
Machine Code	- choose -
Die Number	- choose -
% completed	0%
Notes	start second operation on the time card

Below the form is a green 'ADD' button with a plus sign icon.



OpenPro Manufacturing and labor processing options

Labor rate options:

Other options is to use the actual employee wage table from payroll, the reps table based upon login or use the wage on the operation work center (average of employees wage).

In the manufacturing table you can change what labor rate you want to use, based upon these options it calculates the labor rate, if no rule exist it take the rate from the

Home Manufacturing (MRP) Maintenance Table

Search **Type Code:** Labor where is the rate coming from Go

List

[Add New](#)

Edit	Copy	Description	Code	Y/N	Fix rate	Note
Edit	Copy	Labor from REPS BASE Rate	REPSRATE	N	0.00000	Labor rate comes from REPS base rate tableTHIS IS THE DEFAULT IF NO RULE EXIST
Edit	Copy	Labor from Work Center Rate	WORKCENT	Y	0.00000	Work center rate gets posted
Edit	Copy	Labor from EMPLOYEE Rate	EMPLOYEE	N	0.00000	Payroll EMPLOYEE rate gets posted
Edit	Copy	FIXED LABOR Rate	FIXEDRATE	N	18.50000	FIXED LABOR RATE gets posted

If no business rules setup, then it defaults to login SM REPS rate.

Business rule Employee Code – uses Employee payroll wage to calculate the BOO labor rate, if not and employee it will fall back to the login SM REPS rate

OpenPro

OpenPro.com v8.9.0 DEMO (Language: English) LOGOFF HELP MANUAL

Home Payroll Employee Maint

Employee Maintenance

Save

View Picture

Status: Active

Address: 123 address blvd

Address 2: 2nd address

City: Fountain Valley

State: CALIFORNIA

Zip: 92708

Country: USA

Home Phone: 7141231233

Cell Phone:

Store: DEMO-OpenPro Samburg Bike Company

Prefix: Dr.

First Name: John

Middle Initial: G

Last Name: Smith

Suffix: DD

User ID: adminc

Reprnum: adminc

Emp #: adminc

Tax ID: 001234567

Hire date: 01/20/2001

Fire Date:

Re-Hire Date:

Next Review Date: 04/20/2004

Date of Birth:

Number of Dependents: 3

OpenPro Bike Company - pr_emp_wages - - Mozilla Firefox

64.27.6.6/~opprog180/openpro2017/index.php?act=pr_emp_wages&id=3&noheaders=true

Add New

Employee Smith John

Edit	Pay Activity	Wage Amt	Rate Term	Total	Exp Date	Delete
EDIT	ALL	10.000	Hour	20800		

Email Address: openprojc@gmail.com



OpenPro Manufacturing and labor processing options

REPSRATE – Login sm rates wage amount

The screenshot displays the 'Edit Employee' form in the OpenPro system. The form is divided into several sections for data entry. A blue arrow points from the text 'REPSRATE – Login sm rates wage amount' to the 'Hourly Wage' field, which is highlighted with a green oval. The 'Hourly Wage' is currently set to \$15.500. Other fields include 'Rep. #', 'Emp. #', 'User Name', 'Password', and 'Commission'. The 'Department' is set to ACCOUNTING, and the 'Employee Status' is Active. The 'Hourly Wage' field is located at the bottom of the form, below the 'Commission Type' field.

Name	User
account rep, sales	sales
admin, admin	admin
agent, purchase	purchase
controller, controller	controller
person, payables	payables
Portal, Customer	customer
portal, lead	lead
salesARA, salesARA	salesARA
salesCHI, salesCHI	salesCHI
salesFRA, salesFRA	salesFRA
salesGER, salesGER	salesGER
salesITA, salesITA	salesITA
salesJPN, salesJPN	salesJPN
salesPOR, salesPOR	salesPOR
salesSPA, salesSPA	salesSPA
Your, Administrator	admin

Edit Employee

Rep. # adminc View

Emp. # adminc get Next #

Proximity Card

User Type Admin Department ACCOUNTING

User Name adminc Employee Status Active

Password Password Reset

Days before password update 90 Password Last Updated

Rep Local offset from Server 0 In minutes; positive if rep east of Server, if west negative. 60 per time zone.

Job User Portable User

Seller Planner

Buyer Approver

Void Capable Sales Manager

Commission 5.000 % Edit Commission Tiers Customer Get Remove

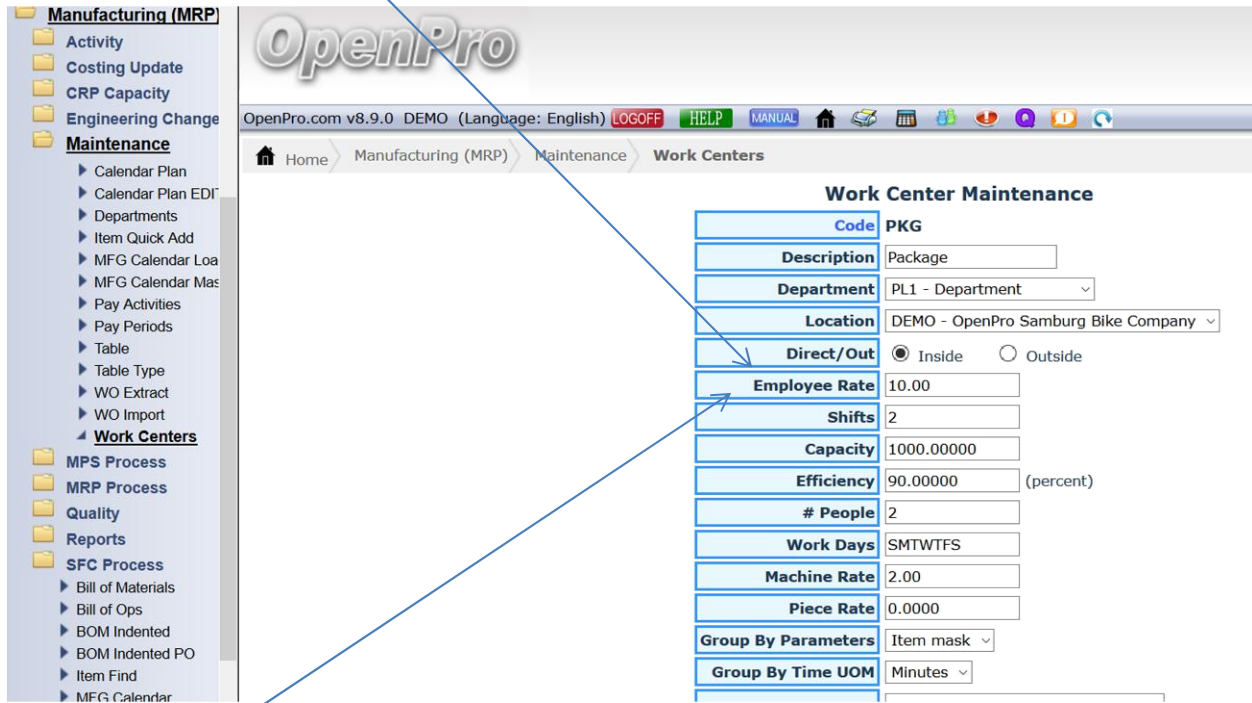
Commission Type Sales

Hourly Wage \$15.500 Show Price



OpenPro Manufacturing and labor processing options

WORKCENT - Work center employee rate



The screenshot shows the OpenPro Work Center Maintenance form. The left sidebar contains a navigation tree with categories like Manufacturing (MRP), Maintenance, and Work Centers. The main form area is titled 'Work Center Maintenance' and contains various input fields. A blue arrow points from the text 'WORKCENT - Work center employee rate' to the 'Employee Rate' field in the form.

Field	Value
Code	PKG
Description	Package
Department	PL1 - Department
Location	DEMO - OpenPro Samburg Bike Company
Direct/Out	<input checked="" type="radio"/> Inside <input type="radio"/> Outside
Employee Rate	10.00
Shifts	2
Capacity	1000.00000
Efficiency	90.00000 (percent)
# People	2
Work Days	SMTWTFS
Machine Rate	2.00
Piece Rate	0.0000
Group By Parameters	Item mask
Group By Time UOM	Minutes

Employee Rate is an average of all employees that work in that work center.



OpenPro Manufacturing and labor processing options

See the cost on a work order

The screenshot shows the OpenPro Manufacturing Work Order form for work order 1359. The form is titled "Work order : 1359" and is located in the "Manufacturing (MRP) Work Orders" section. The form includes the following fields and options:

- Type:** Build
- Part #:** MYKIT
- Revision #:** (empty)
- Name:** Make this bike as a KIT
- Description:** Custom Bike Configurator with Options!
- Customer:** Find Customer, Find Order
- Reference #:** (empty)
- Unit of Measure:** Each
- Warehouse:** OpenPro Samburg Bike Company
- Lead Time:** 0
- Quantity Ordered:** 2.0000
- Quantity Completed:** 0.0000
- New Quantity Completed:** (empty)
- Due Date:** 05/31/2017
- Start Date / Time:** 05/31/2017 11:17:30
- Completed Date:** (empty)
- Issue By:** (empty)
- Issue Date:** (empty)
- Heat No:** (empty)
- Heat Code:** (empty)
- Priority:** Standard
- Work Center:** 10 Cutting
- UserDefine5:** 0.00%

The "Production Notes" section contains the text "work order for MYKIT". A "COST" button is highlighted with a blue arrow pointing to it from the text "Click on COST" below the screenshot.

Click on COST



OpenPro Manufacturing and labor processing options

Depending on the options selected in the business rules. Option 1

Rules Setup Maintenance ▶ Bank Accounts ▶ Comm Doc Type ▶ Company Loc: ▶ Company Locati	Default Sales Order Required Offset (days)	<input type="text" value="0"/>
	Fixed Overhead	<input type="text" value="1.200000"/>
	Variable Overhead	<input type="text" value="1.500000"/>
	Overhead Method	<input type="text" value="labor time/machine time/part cost"/>

When selecting overhead method, you can see it added to the totals of each section

Costs for Work Order # 1359, Item MYKIT, Quantity: 2.0000 , Quantity Completed: 0.0000 [LEARN](#)

Material Costs

Sequence No	Part	Planned	Actual	Difference	% Difference	Quantity
10	ECT2CB Easton CT2 Carbon Bar	80.00	0.00	-80.00	-100.00%	0.00
20	FRCS32V Fox Racing Shox 32 Vanilla RLC	600.00	0.00	-600.00	-100.00%	0.00
30	ARLAUNCH Arrow Racing Launch	28.00	0.00	-28.00	-100.00%	0.00
40	FG100 FG100 OpenPro Mountain Bike	124.88	0.00	-124.88	-100.00%	0.00
Direct Total		832.88	0.00	-832.88	-100.00%	
Fixed Overhead		999.46	0.00	-999.46	0.00%	
Variable Overhead		1,249.32	0.00	-1,249.32	0.00%	
Total Material Cost		3,081.66	0.00	-3,081.66	-100.00%	

Labor Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
10	Chassis Assembly	ASSEMBLY WC	12.00	1.80	-10.20	-566.67%
30	TAGGING	Tagging	9.38	11.25	1.87	16.62%
Direct Total			21.38	13.05	-8.33	-63.83%
Fixed Overhead			25.66	15.66	-10.00	-63.86%
Variable Overhead			32.07	19.58	-12.49	-63.79%
Total Labor Cost			79.11	48.29	-30.82	-63.82%

Labor Machine Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
20	packaging of the product	Package WC	4.33	2.54	-1.79	-70.47%
Direct Total			4.33	2.54	-1.79	-70.47%
Fixed Overhead			5.20	3.05	-2.15	-70.49%
Variable Overhead			6.50	3.81	-2.69	-70.60%
Total Labor Machine Cost			16.03	9.40	-6.63	-70.53%



OpenPro Manufacturing and labor processing options

Depending on the options selected in the business rules. Option 2

Rules Setup Maintenance ▶ Bank Accounts ▶ Comm Doc Type ▶ Company Loc: ▶ Company Locati	Default Sales Order Required Offset (days)	<input type="text" value="0"/>
	Fixed Overhead	<input type="text" value="1.200000"/>
	Variable Overhead	<input type="text" value="1.500000"/>
	Overhead Method	<input type="text" value="Part Cost"/>

Costs for Work Order # 1359, item MYKIT, Quantity: 2.0000 , Quantity Completed: 0.0000 **LEARN**

Material Costs

Sequence No	Part	Planned	Actual	Difference	% Difference	Quantity
10	ECT2CB Easton CT2 Carbon Bar	80.00	0.00	-80.00	-100.00%	0.00
20	FRCS32V Fox Racing Shox 32 Vanilla RLC	600.00	0.00	-600.00	-100.00%	0.00
30	ARLAUNCH Arrow Racing Launch	28.00	0.00	-28.00	-100.00%	0.00
40	FG100 FG100 OpenPro Mountain Bike	124.88	0.00	-124.88	-100.00%	0.00
	Direct Total	832.88	0.00	-832.88	-100.00%	
	Fixed Overhead	999.46	0.00	-999.46	0.00%	
	Variable Overhead	1,249.32	0.00	-1,249.32	0.00%	
	Total Material Cost	3,081.66	0.00	-3,081.66	-100.00%	

Labor Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
10	Chassis Assembly	ASSEMBLY WC	12.00	1.80	-10.20	-566.67%
30	TAGGING	Tagging	9.38	11.25	1.87	16.62%
	Direct Total		21.38	13.05	-8.33	-63.83%
	Total Labor Cost		21.38	13.05	-8.33	-63.83%

Labor Machine Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
20	packaging of the product	Package WC	4.33	2.54	-1.79	-70.47%
	Direct Total		4.33	2.54	-1.79	-70.47%
	Total Labor Machine Cost		4.33	2.54	-1.79	-70.47%

Machine Costs

Sequence No	Operation	Machine	Planned	Actual	Difference	% Difference
10	Chassis Assembly		0.00	0.00	0.00	0.00%
20	packaging of the product	Milling machine	26.00	0.00	-26.00	-100.00%
30	TAGGING		0.00	0.00	0.00	0.00%



OpenPro Manufacturing and labor processing options

Depending on the options selected in the business rules. Option 3

<ul style="list-style-type: none"> Rules Setup Maintenance <ul style="list-style-type: none"> ▶ Bank Accounts ▶ Comm Doc Type ▶ Company Loc. ▶ Company Locati 	Default Sales Order Required Offset (days)	<input type="text" value="0"/>
	Fixed Overhead	<input type="text" value="1.200000"/>
	Variable Overhead	<input type="text" value="1.500000"/>
	Overhead Method	<input type="text" value="Labor Time"/>

Costs for Work Order # **1359**, item **MYKIT**, Quantity: **2.0000**, Quantity Completed: **0.0000** **LEARN**

Material Costs

Sequence No	Part	Planned	Actual	Difference	% Difference	Quantity
10	ECT2CB Easton CT2 Carbon Bar	80.00	0.00	-80.00	-100.00%	0.00
20	FRCS32V Fox Racing Shox 32 Vanilla RLC	600.00	0.00	-600.00	-100.00%	0.00
30	ARLAUNCH Arrow Racing Launch	28.00	0.00	-28.00	-100.00%	0.00
40	FG100 FG100 OpenPro Mountain Bike	124.88	0.00	-124.88	-100.00%	0.00
Direct Total		832.88	0.00	-832.88	-100.00%	
Total Material Cost		832.88	0.00	-832.88	-100.00%	

Labor Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
10	Chassis Assembly	ASSEMBLY WC	12.00	1.80	-10.20	-566.67%
30	TAGGING	Tagging	9.38	11.25	1.87	16.62%
Direct Total			21.38	13.05	-8.33	-63.83%
Fixed Overhead			25.66	15.66	-10.00	-63.86%
Variable Overhead			32.07	19.58	-12.49	-63.79%
Total Labor Cost			79.11	48.29	-30.82	-63.82%

Labor Machine Costs

Sequence No	Operation	Work Center	Planned	Actual	Difference	% Difference
20	packaging of the product	Package WC	4.33	2.54	-1.79	-70.47%
Direct Total			4.33	2.54	-1.79	-70.47%
Fixed Overhead			5.20	3.05	-2.15	-70.49%
Variable Overhead			6.50	3.81	-2.69	-70.60%
Total Labor Machine Cost			16.03	9.40	-6.63	-70.53%

Machine Costs

Sequence No	Operation	Machine	Planned	Actual	Difference	% Difference
10	Chassis Assembly		0.00	0.00	0.00	0.00%



OpenPro Manufacturing and labor processing options

When reviewing the work order you can Drill down the detail labor clock in and out

OpenPro Manufacturing (MRP) interface showing Work Order # 1359 details. The interface includes a navigation menu on the left, a main data entry area, and a right-hand panel with various links and options.

Bill of Operations for Work Order # 1359, item MYKIT

Work Center: 10 Cutting 0.00%

[SEE NOTE](#)
[DETAIL](#)
[SAVE](#)

SEL	Seq No	Std Oper .	Work Center	Description	Setup Time	Actual Setup	Run Time Per	Projected Run Time	Actual Run Time	Time UOM	Qty Completed	Qty Scrapped	Total	Line Detail
<input type="radio"/>	10	Chassis Asse	ASSEMBLY WC	Assembly	20.00000	0.15	20.00000	40	9.00000	Minutes	0.000	0	0	DETAIL
<input type="radio"/>	20	packaging of	Package WC	packaging of the product	10.00000	1.27	60.00000	120	76.00000	Minutes	2.000	0.000	2	DETAIL
<input type="radio"/>	30	TAGGING	Tagging	tagging	10.00000	0.60	10.00000	20	36.00000	Minutes	0.000	0	0	DETAIL

Hours for Workorder # 1359

Worker	Activity	Regular	Overtime	Total	Shift	Quantity Completed
adminc adminc	Regular Work	1.42	0.00	1.42		0.00
worker1 worker1	Regular Work	0.60	0.00	0.60		0.00
Totals		2.02	0.00	2.02		0.00

[DETAIL](#)
[CLOSE WINDOW](#)



OpenPro Manufacturing and labor processing options

Pay Times Details for Workorder # 1359

Rep Number	Worker Name	Activity	Clock In Date	Clock Out Date	Time	Labor Cost	% completed	Piece Qty	Piece Rate	Bonus Amount	Workcenter	Machine Code	Die Number	Notes	Cost Details	
169	adminc adminc	Regular Work	2017-05-31 11:30:00	2017-05-31 11:39:00	0.150	2.325	0%	0.000	0.000	0.000	ASSEMBLY WC			start the work order	COST	
169	adminc adminc	Regular Work	2017-05-31 11:59:00	2017-05-31 12:24:00	0.420	6.510	0%	0.000	0.000	0.000	Package WC			start second operation on the time card	COST	
169	adminc adminc	Regular Work	2017-05-31 12:39:00	2017-05-31 13:30:00	0.850	13.175	0%	0.000	0.000	0.000	Package WC milling			start with machine cost added	COST	
173	worker1 worker1	Regular Work	2017-06-01 15:08:00	2017-06-01 15:44:00	0.600	12.000	0%	0.000	0.000	0.000	Tagging			test processing of the worker 1	COST	
Total						2.020	34.010	0.000	0.000	0.000						

When you drill down to the COST details it shows the screen below.

Labor Cost Details for Workorder# 1359

Rate	Variable Overhead	Variable Cost	Fixed Overhead	Fixed Cost	Direct Cost	Time
20.0000	0.000000	0.0000	0.000000	0.0000	11.2500	0.600



OpenPro Manufacturing and labor processing options

Material cost options and use of sales order configuration

When you build an order using the sales order configuration you can add additional items to the work order BOM. These will then be flagged as configured bom items, you have the options to have the material cost of those items be added to the finished good item.

WOPTIONS - Work Order Options Record

Description	Configured cost add to main item
BACKFLSH	CONFCOST
LOCATION	ALL
BFDRILL	Y
SERIALLOT	.
Rounding	0.00000
Note	For sales order configured options add the base cost of those items to the main item

SAVE

Under manufacturing maintenance table you can change the work order options to include cost of all the work order added items. Below is the work order BOM with Configured items.

OpenPro Bill of Materials for Work Order # 1438, Item MYOBS

SEL	Seq No	Part Number	Description	UOM	Issue Method	Qty Per	Projected Quantity	Scrap Percent	Actual Quantity	Actual Scrap	Ref No
	10	TK080N	Toolkit Basic tool kit but can have optional components	Each	Bflush	1.00000	150.00000	0.00	4.00000	0.00000	
	20	ATT11	Aero TT 08, 2009 Mariner Aero TT Frame 6061 ALUMINUM Custom butted, Aero shaped, (Double water bottle mounts) ± Replaceable Rear Derailleur	Each	Bflush	12.00000	1800.00000	0.00	48.00000	0.00000	c
	30	FRCS32V	Fox Racing Shox 32 Vanilla RLC • 5.5"(140 mm) of travel • Integrated disc brake cable guide	Each	Bflush	1.00000	150.00000	0.00	4.00000	0.00000	c
	40	ARS32	Alex Rims Supra 34 • Lightweight strong DH specific rim design	Each	Bflush	1.00000	150.00000	0.00	4.00000	0.00000	c
	50	ALS	Azonic Love Seat Made of Kevlar/Leather material and available in Black/Black or Black/Grey	Each	Bflush	1.00000	150.00000	0.00	4.00000	0.00000	c
	60	SRE27	Sun-Ringle Equalizer 27 • USE ALL MOUNTAIN/CROSS COUNTRY/FREERIDE	Each	Bflush	1.00000	150.00000	0.00	4.00000	0.00000	c
	70	3lw	#3 lock washer	Each	Bflush	1.00000	150.00000	0.00	4.00000	0.00000	c



OpenPro Manufacturing and labor processing options

With the business rule turned on

Part #: MYOBS  

MYOBS / Make your own bike Serialized
from 05/20/2017 to 06/19/2017

From: 05/20/2017 To: 06/19/2017

Store: All Year: 2017

Transaction Type: All

Summary Details													
Action Date	Time	Rep Name	Location From	Type Transaction	Location To	Quantity	Document Number	Sold Price	Unit Cost	Extended Amount	Running Total	Customer/Vendor	Description
06/18/2017	14:35:44	Administrator Your	DEMO - 666-001	RE		2	WO # 1438	770	2414.81583	4829.63	4829.63	Cocanut Oil Dist CO - 6	WO # 1438

Cost includes all the configured items into inventory control.

- Development
- Admin
- Bank Reconciliation
- Contacts (CRM)
- General Ledger**
 - GL Reports
 - Maintenance
 - Chart of accounts
 - Fiscal Periods
 - GL Details
 - GL Entry
 - GL Financials Div
 - GL Financials Div Det
 - GL Financials Div orig
 - GL Financials OLD
 - GL Financials Orig
 - GL Forms
 - GL Posting**
 - Journal Listing
 - Trial Balance
 - Inventory Control
 - Job Costing Projects
 - Manufacturing (MRP)
 - Payables
 - Payroll
 - Point Of Sale
 - PR Time Cards
 - Purchase Order
 - Receivables

Warehouse: Hollywood

Search: System: - All - Start Date: 06/18/2017 End Date: 06/19/2017

Edit Detail	View Post	View Detail	View Original	Journal	Vendor Customer	From System	Transaction Date	No of Transaction	Location	Notes	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WO	5738	WO EXPENSE	06-18-2017	2	DEMO	WO Completed: 1438 ,Partnum: MYOBS ,Quantity: 2 ,C 2414.81583

Location	Account	Debit	Credit	Notes
DEMO	14000-000 Inventory	0	44	WO issued: 1438 ,Partnum: TK080N ,Quantity: -2 ,Cost: 22
DEMO	50700-000 Inventory expenses	44	0	WO issued: 1438 ,Partnum: TK080N ,Quantity: -2 ,Cost: 22
DEMO	14000-000 Inventory	0	3615.998	WO issued: 1438 ,Partnum: ATT11 ,Quantity: -24 ,Cost: 150.6666
DEMO	50700-000 Inventory expenses	3615.998	0	WO issued: 1438 ,Partnum: ATT11 ,Quantity: -24 ,Cost: 150.6666
DEMO	14000-000 Inventory	0	401.778	WO issued: 1438 ,Partnum: FRCS32V ,Quantity: -2 ,Cost: 200.8888
DEMO	50700-000 Inventory expenses	401.778	0	WO issued: 1438 ,Partnum: FRCS32V ,Quantity: -2 ,Cost: 200.8888
DEMO	14000-000 Inventory	0	80.667	WO issued: 1438 ,Partnum: ARS32 ,Quantity: -2 ,Cost: 40.33333
DEMO	50700-000 Inventory expenses	80.667	0	WO issued: 1438 ,Partnum: ARS32 ,Quantity: -2 ,Cost: 40.33333
DEMO	14000-000 Inventory	0	60.889	WO issued: 1438 ,Partnum: ALS ,Quantity: -2 ,Cost: 30.4444
DEMO	50700-000 Inventory expenses	60.889	0	WO issued: 1438 ,Partnum: ALS ,Quantity: -2 ,Cost: 30.4444
DEMO	14000-000 Inventory	0	88.889	WO issued: 1438 ,Partnum: SRE27 ,Quantity: -2 ,Cost: 44.4444
DEMO	50700-000 Inventory expenses	88.889	0	WO issued: 1438 ,Partnum: SRE27 ,Quantity: -2 ,Cost: 44.4444
DEMO	14000-000 Inventory	0	0.24	WO issued: 1438 ,Partnum: 3lw ,Quantity: -2 ,Cost: 0.12
DEMO	50700-000 Inventory expenses	0.24	0	WO issued: 1438 ,Partnum: 3lw ,Quantity: -2 ,Cost: 0.12
DEMO	14000-000 Inventory	4829.632	0	WO Completed: 1438 ,Partnum: MYOBS ,Quantity: 2 ,Cost: 2414.81583
DEMO	50700-000 Inventory expenses	0	4829.632	WO Completed: 1438 ,Partnum: MYOBS ,Quantity: 2 ,Cost: 2414.81583
Difference: 0.00		9122.093	-9122.093	

Same happens with general ledger posting.

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