

Order Module

The primary responsibility of the **Order** module is to allow you to create work orders to help manage jobs through the manufacturing process. A typical work order lists the item and quantity to be made; the options that you have chosen that help manage the order; the route that will be used to process the order; the list of materials necessary to build the item and any lot or serial numbered materials included; how the item is configured if there are different features and options available; and the transactions that go into the manufacturing process, such as labor, material, overhead costs, scrap, etc.

Work orders are designed to be printed and accompany the job through the shop. There are options to print them with their route and material list and even include bar code on the document for easier processing.

Work orders can be classified based on whether they are to assemble an item, build an item, rework an item, perform maintenance in the shop, or simply to track a manufacturing activity.

The ALERE work order is very flexible allowing the route and material list to be modified while it is in process, the quantity to be changed and the finished items to be placed in inventory as they are completed. Bar coding can be used to quickly post the many kinds of transactions that a work order can accumulate while being manufactured. Mass transactions that authorize the release of many work orders simultaneously or that issue long list of material to orders with one key stroke, help to speed the process.

Work orders are created and are formally released through a Firm Plan Order (FPO) process. FPO'ing an order allocates the items on the material list in inventory and makes that order available for the MRP tool.

Material pick lists can be printed to aid the issuing of components from inventory to the order.

Header	Route	Material	Config	ID	Trans	Status	Notes
Work Order	1006	Status	FPO 12/01/2012	<input type="checkbox"/> Order Locked	Start Qty	42.000	
Created	12/01/2012	BOM	07/05/2011	Printed	Projected Qty	42.000	
					Finish Qty		
Item	Rev	Description					
MBWH01	001	Wheel Assembly					
Route	Rev	Description					
WHEEL		Wheel Assembly					
Customer	Description	Order Type	SO No	Line			
TB01	Tom's Bikes	Build	70028	1			
Contract# (Misc Definition)	Misc02	Misc03	Customer PO				
			TB4744				
Start/Restart	12/01/2012	Saturday	Shipped	//	Priority	Active	
Needed By	02/01/2013	Friday	Completed	//	Schedule	Forward	
Sched Comp	02/05/2013	Tuesday	Work Center	BestAlternate	Overlap Qty	0.000	

Rel	Work Order	Item	Priority	Sales Order	Need By	Customer	Remain Qty
	1008	MBBR01	A		02/01/2013		10.000
	1009	MBCH01	A		02/01/2013		10.000

The date the work order is expected to be completed is automatically updated if you are using the Schedule Module. The individual orders can be set to use forward scheduling or backward scheduling techniques. When an order is forward scheduled, the time it will take to manufacture the items is calculated beginning with the start date on the order and working through the route to arrive at when it is expected to be completed. When an order is backward scheduled, the time it will take to manufacture the items is calculated beginning from the needed by date and worked backward through the route to arrive at when it should be started.

Partial quantities on a work order may be posted to inventory as they are finished and without completing the order.

A real-time inquiry process makes it easy to look up a list of orders for a customer. Choosing an individual order from the list will display that order. The same inquiry tool can be used to find all orders building a specific item or which are on a sales or customer purchase order.