

Manufacturing Order Processing



PowerShift manufacturing order processing programs release orders to the manufacturing floor manually, semi-automatically, or in a fully-automated process (or in any combination of manual and automated methods). Release can be triggered by sales, with orders generated based on component availability. Orders can be consolidated to create a single pick list to speed the picking process. Options are available to back flush components based on operation or on manufacturing order completion. Serial numbers can be pre-assigned at order creation or input at time of receipt. Documents are barcoded to simplify reporting. Paperless manufacturing is supported by PowerShift's "workorderless" feature; no order is released, rather, components are back flushed based on the bill of material and quantity received.

Open Manufacturing Order Inquiry | WIP Cost Inquiry | Manufacturing Order Analysis Inquiry | Manufacturing Order Picking Selection | Routing Inquiry | Inventory Status Inquiry

CA-1 | 4.0 WVI 102511 | RCE | MSS | Manufacturing Order Picking Selection | 10/12/2012

Sel	Pr	Mfg order	Parent item	Due date	Qty open	Demand order	Dept	Pck?
<input checked="" type="checkbox"/>	999	CA-100002293	1C/KC	10/11/2012	1		STK	F
<input checked="" type="checkbox"/>	999	CA-100002289	100	10/11/2012	4		STK	P
<input checked="" type="checkbox"/>	999	CA-100002280	1-ABCI				STK	F
<input type="checkbox"/>	999	CA-100002279	1-ABCI				STK	F
<input checked="" type="checkbox"/>	999	CA-100002274	XK-250				STK	F
<input type="checkbox"/>	999	CA-100002273	XK-250				STK	F
<input type="checkbox"/>	999	CA-100002272	100				STK	F
<input type="checkbox"/>	999	CA-100002271	XK-250				STK	F
<input checked="" type="checkbox"/>	999	CA-100002270	XK-250				STK	F
<input type="checkbox"/>	999	CA-100002269	100	10/09/2012	10	S/O CA-100003251	STK	
<input type="checkbox"/>	999	CA-100002268	1-ABCD-W	10/07/2012	2		STK	F
<input checked="" type="checkbox"/>	999	CA-100002266	1-EFG	10/17/2012	3		STK	
<input type="checkbox"/>	999	CA-100002265	100	10/05/2012	9		STK	
<input type="checkbox"/>	999	CA-100002264	100	10/05/2012	10		STK	
<input type="checkbox"/>	999	CA-100002263	100	10/05/2012	10		STK	
<input checked="" type="checkbox"/>	999	CA-100002261	100	10/05/2012	10		STK	
<input type="checkbox"/>	999	CA-100002260	100	10/05/2012	10		STK	
<input type="checkbox"/>	999	CA-100002252	100	10/03/2012	8		STK	

◆ Select multiple orders for picking at one time

◆ Print a consolidated pick list to expedite efficient picking of selected orders

Drill to component availability

Mfg order no	CA-100002272	Partial	Qty ordered	12	Released	10/08/2012
Parent item no	100		Qty scrapped	0	Due	10/09/2012
Description	Pen, felt		Qty received	0	Start	10/08/2012
ECL	A	RRL A	Qty rejected	0	Picked	
			Qty stocked	0	Completed	10/08/2012

Comp item no	Qty open	Qty on order	Qty on hand	Qty in flr	stk	Qty available	Qty obligated	Qty committed	Comp due
100-1	0	60	621	0	0	595	26	200	10/08/2012
100-2	12	140	496	0	0	496	0	200	10/08/2012
100-3	0	100	571	0	0	545	26	200	10/08/2012

Manufacturing Orders

- Opt to create a manufacturing order when the customer's sales order is entered.
- Link manufacturing orders to associated demand.
- Generate manufacturing orders for subassemblies the order for the parent is released.
- Assign serial numbers for controlled parent items at order release or receipt.
- Start dates are calculated based on the item's manufacturing lead time.
- To support lean concepts, PowerShift supports workorderless manufacturing.
- For rework and repair orders, you can select specific components and operation sequences, and optionally assign a different item number at receipt.

Shop Paper

- Prints documents that add value to your work flow—automatically or on demand.
- Uses barcodes for efficiency and data entry accuracy.

Picking

- Picking updates on hand inventory of components.
- Partially pick sets of components to begin work despite shortages.
- Selectively pick, over-pick, under-pick and close short, or substitute component s.
- Opt to backflush components as operations are completed.

**Multi-Site
Manufacturing**

PowerShift supports forecasting, planning, and manufacturing at multiple branches in the US and abroad

Work In Process

- Labor reporting offers several options for recording hours worked:
 - Enter the hours based on time cards
 - Import the data from another application
 - Use labor data collection to capture hours worked based on the system clock
- WIP reporting allows you select pay points to record completed and scrapped quantities; prior sequences are back flushed, saving tedious data entry.
- Recording scrap (parents or components) alerts you to a problem so that you do not continue to make defective items.
- When you reject components, the material review board can decide whether to stock as is or scrap.
- If you activate the general ledger interface, the WIP Register can update separate accounts for material, special purchased material, labor, outside service, overhead, and adjustments.
- Pegged expedite reports show what needs to be done to ship orders on time.

Receiving

- Manufacturing order receipt can back flush labor and overhead at standard cost for all routing steps.
- Optionally back flush components when you receive finished goods.
- Customer-driven demand with a linked manufacturing order automatically obligates the item received and can optionally create a shipment.
- When inspected items are rejected, the material review board can salvage the components or create a rework order.

Manufacturing Order History

- Manufacturing order detail is available after an order is closed.
- Complete audit trails of transactions with date, time, action and user.

Bills of Material

- Component effective dates are supported; mass change and delete capability provides another efficient method to substitute components.
- Copy a BOM to quickly create a new ECL; for a new item, merge an existing BOM and edit it.
- Use a part designator to list a component on a BOM multiple times.
- Bills of material for configured products can have nested prompts; intermediates can be standard components or parent items (subassemblies).
- Manufacturing orders for unapproved bills of material cannot have components picked or operation completions reported.

Work Centers and Routings

- Base multiple setups for regular and unattended operations on lot size.
- Releasing a manufacturing order creates a purchased service requisition.
- Alternate routings can be used when a machine is not available or a more efficient method exists.
- Employee labor can be allocated to unattended operations.

Bulk Material Movement

- Multiple manufacturing orders can share an item stored in a large container without having to return unused quantities to inventory between picks.

Performance Reporting

- Review performance by manufacturing order for both setup and direct labor.
- Review performance for a user selectable range of operations.

Runtime, Sort, Selection & Program Options
(saved by user)
provide unlimited flexibility in information reported and how it is presented

EM1 Output to EMAIL information

To: kate@qantel.com

Subject: Planner BUY: Orders Due 9/24/12

Copy From: mfgmfr@qantel.com

Email output as plain text, a PDF attachment or in-line HTML

Planner BUY: Orders Due 9/24/12 - Message (HTML)

From: kate@qantel.com
To: Kathryn Jackson
Cc: mfgmfr@qantel.com
Subject: Planner BUY: Orders Due 9/24/12

Mfg order no	Type	Parent item no	Description	ECL Plnr	Due	Picked	Qty ordered	Qty received	Dem order no	Ln	Typ	Customer name
CA-100002236	P	XX-155-NWH-LOT	SPECIALIST TRANSDUCER PART 9LN	BUY	09/24/2012	09/24/2012	1		0 CA-1000014221	1	RMA	Custom Classics
CA-100002237	P	XX-155-NWH-LOT	SPECIALIST TRANSDUCER PART 9LN	BUY	09/24/2012	09/24/2012	2		0 CA-1000014221	1	RMA	Custom Classics
CA-100002238	P	XX-155-NWH-LOT	SPECIALIST TRANSDUCER PART 9LN	BUY	09/24/2012	09/24/2012	3		0 CA-1000014221	1	RMA	Custom Classics
CA-100002240	P	XX-155-NWH-LOT	SPECIALIST TRANSDUCER PART 9LN	BUY	09/24/2012	09/24/2012	1		0 CA-1000014241	1	RMA	Custom Classics
CA-100002241	P	XX-155-NWH-LOT	SPECIALIST TRANSDUCER PART 9LN	BUY	09/24/2012	09/24/2012	3		0 CA-1000014241	1	RMA	Custom Classics