

## Material Requirements Planning (MRP) Module

### Take charge of your business with PULSE Dashboard Software

PULSE Dashboard is revolutionary software that lets you leverage your Macola investment a new way— with a real-time display of your vital business metrics, and detailed analysis with the click of a mouse. Other PULSE modules include Executive, Sales & Marketing, Customer Service/Shipping, Inventory and Purchasing, Financial Control, Production and Inventory ABC Class Generator. For more information, go to [www.PULSEdashboard.com](http://www.PULSEdashboard.com).

### PULSE Dashboard Software adds value to your Macola investment

- Installed and running in an afternoon on your computer.
- Pre-configured - no programming or IT assistance needed.
- Manage with real-time data, on-screen, company-wide, all the time.
- Drill-down to view details. One-click report writer generates custom reports.
- Everything exports to Excel/printer/PDF/e-mail.

### PULSE MRP gives you capabilities not available elsewhere

- Time phasing of demand and replenishment – Our MRP regeneration program creates 25 weekly buckets for demand (from customers and production orders) and 25 weekly buckets for replenishment (from purchase orders and production orders).
- No set-up – That is correct, there are no hours of tedious set-up.
- MRP Action Report – Our proven MRP Action report is concise and easy to understand.
- Supplier Action Report – Our unique Supplier Action report keeps your critical suppliers informed of their commitments to you over the next 25 weeks.

### Time-phasing has been added to your existing Inventory Status screen

We added MRP time phasing to your existing PULSE Inventory Status screen. In addition to viewing critical data on each inventory item, you can NOW see the projected on-hand quantity by week based on demand and replenishment.

Item Item Detailed View

Item #: E3089 Location: CIN View Transactions Transaction Date From: 1/1/2008 To: 6/20/2008

ATP Qty Needed: 0 Ship by: 1/8/2012 Do not allow shortages within 14 days. JIT Replenishment Preview in MRP

Summary

Qty O/H	Qty Alloc	Qty On-Order	Qty Avail	Mths O/H	Last Sale	Last Purch	Last Usage	YTD Usage	12 Mth Usq	Avg 12 Mth Usq	12 Mth Inv Turn
3,081.07	1,733.8	4,960.6	1,347.27	1.35	12/14/06	07/18/08	07/22/08	12,368	27,400	2,283.3	8.87

Historical Summary

	06/08	05/08	04/08	03/08	02/08	01/08	12/07	11/07	10/07	09/07	08/07	07/07
Qty O/H	3,081.1	3,081.1	2,221.1	1,816.3	3,404	2,580.8	3,307	4,236.7	5,366.8	1,025.2	2,368.9	2,938.1
Receipts		3,356.2	3,054.5	1,883.9	3,029.4	541.1		1,000.6	6,142.1	560.6	110	2,199.7
Usage		2,500.7	2,582.2	3,368.6	2,016.3	976.3	924.8	2,031.7	1,812.2	1,904.4	679.2	817.5
Transfer In												
Transfer Out												
Turns	6.8	8.4	8.9	8.4	7.4	7.2	7.5	8	7.7	7.2	6.7	7.2

MRP Summary

	Totals	Past Due	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Future Month 1	Future Month 2	Future Month 3	Future Month > 3
Demand	1,745	51	6	41	392	709	236	310				
Replenishm	4,961	1,961		3,000								
Net O/H	6,297.1	4,991.1	4,985.1	7,944.1	7,552.1	6,843.1	6,607.1	6,297.1	6,297.1	6,297.1	6,297.1	6,297.1

MRP Details

Bill of Material

Where-Used

# Easy to read and concise MRP reports

Our MRP Action and Supplier Forecast reports provide concise and easy to read demand and replenishment data. These reports can be run from within PULSE via the Designer module or from within the Crystal Reports software. These reports are also available if you are using the Macola MRP module. Both reports include filtering and exception reporting to pinpoint items that need attention.

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**PULSE Dashboard MRP Action Report**

**\*\* 2-Week Buffer is two week's avg. usage for the past 26 weeks \*\*\* Weeks Avail Qty is On-hand less Allocated divided by 26 week average usage**

Buyer	Item #	Description	P/M	O/H Qty	2-Week Buffer **	Repl LT	P.O. LT	Wks Avail ***	Reorder Qty	Past Due	1/06/12	1/13/12	1/20/12	1/27/12	2/03/12	2/10/12	2/17/12	2/24/12	Wks 9-12	Wks 13-16	After Wk 16		
C	20-531	VLVG	P	0	138	6	30	(27.1)	507														
Weekly Usage: 4 weeks = 75 13 weeks = 81 26 weeks = 69 Avg Mon Usage: 277										R	Prior Inventory *	0	0	0	0	0	0	0	0	0	0	75	75
											Demand	0	75	75	75	75	75	0	0	0	300	225	975
											Replenishment	0	75	75	75	75	75	0	0	0	375	225	900
											Net Inventory	0	0	0	0	0	0	0	0	0	75	75	0
C	20-672	1/4 IN	P	3,929	419	5	10	(11.7)	1500														
Weekly Usage: 4 weeks = 147 13 weeks = 232 26 weeks = 210 Avg Mon Usage: 839										R	Prior Inventory *	3,929	3,929	3,653	3,652	3,177	2,427	1,952	1,677	927	302	(1,348)	(2,448)
											Demand	0	276	1	475	750	475	275	750	625	1,650	1,100	0
											Replenishment	0	0	0	0	0	0	0	0	0	0	0	0
											Net Inventory	3,929	3,653	3,652	3,177	2,427	1,952	1,677	927	302	(1,348)	(2,448)	(2,448)
C	20-672	3/8 IN	P	5,302	725	5	10	(0.6)	1171														
Weekly Usage: 4 weeks = 483 13 weeks = 417 26 weeks = 362 Avg Mon Usage: 1450										R	Prior Inventory *	5,302	5,200	4,856	4,064	3,451	3,024	2,590	2,465	2,090	1,715	267	(233)
											Demand	102	344	792	613	427	434	125	375	375	1,448	500	0
											Replenishment	0	0	0	0	0	0	0	0	0	0	0	0
											Net Inventory	5,200	4,856	4,064	3,451	3,024	2,590	2,465	2,090	1,715	267	(233)	(233)
C	20-778	UMB 1	P	0	12		60	(8.7)	14														
Weekly Usage: 4 weeks = 0 13 weeks = 4 26 weeks = 6 Avg Mon Usage: 23										R	Prior Inventory *	0	0	0	0	0	0	0	0	0	0	0	0
											Demand	50	0	0	0	0	0	0	0	0	0	0	0
											Replenishment	50	0	0	0	0	0	0	0	0	0	0	0
											Net Inventory	0	0	0	0	0	0	0	0	0	0	0	0
C	20-785	NUT,	P	1,682	212	5	10	(2.9)	373														
Weekly Usage: 4 weeks = 151 13 weeks = 193 26 weeks = 106 Avg Mon Usage: 423										R	Prior Inventory *	1,682	1,682	1,542	1,542	1,492	1,392	1,342	1,292	742	192	(108)	(308)
											Demand	0	140	0	50	100	50	50	550	550	300	200	0
											Replenishment	0	0	0	0	0	0	0	0	0	0	0	0
											Net Inventory	1,682	1,542	1,542	1,492	1,392	1,342	1,292	742	192	(108)	(308)	(308)

## Custom Crystal reports and SQL Queries can be run within PULSE

Now you have a place to store, protect and run your critical custom Crystal reports. If you are SQL trained, you can also develop your own custom screens or we will develop them for you. Note that this feature requires the use of our Designer module.

Crystal Reports

Main Report

1/8/2012 Supplier MRP Forecast Report

XYZ Supplier, Inc. 0000000C

C/O C  
P.O. B  
CHARLOTTE NC

DEBB

Item no	Item description	Ord No	Due Date	Past Due	1/13/12	1/20/12	1/27/12	2/03/12	2/10/12	2/17/12	2/24/12	3/02/12	Weeks
E3089	EDGE HOUSING	1665	05/29/08	1,961	0	0	0	0	0	0	0	0	
		1704	06/27/08	0	0	3,000	0	0	0	0	0	0	
E3090	EDGE HOUSING	1665	05/29/08	2,198	0	0	0	0	0	0	0	0	
		1704	06/27/08	0	0	3,000	0	0	0	0	0	0	
E3091	EDGE HOUSING	1665	05/29/08	1,974	0	0	0	0	0	0	0	0	
		1704	06/27/08	0	0	2,000	0	0	0	0	0	0	

**MRP Query for Weekly Replenishments**

```

select opt.item_no as [Item #], im.item_desc_1 as [Item Desc 1], MAX(il.byr_plnr) as [Buyer],
sum(il.qty_on_hand) as [O/H Qty], sum(il.qty_allocated) as [Allocated Qty],
sum(past_due_replenish_qty) as [Past Due Replenish Qty], sum(past_due_demand_qty) as [Past Due Demand Qty],
sum(week_replenish_qty_00) as [Week 00 Replenish Qty], sum(week_demand_qty_00) as [Week 00 Replenish Qty],

```

Drag a column header here to group by that column

Item #	Item Desc 1	O/H Qty	Allocated Qty	Past Due Replenish Qty	Week 00 Replenish Qty	Week 01 Replenish Qty	Week 02 Replenish Qty	Week 03 Replenish Qty	Week 04 Replenish Qty	Week 05 Replenish Qty	Week 06 Replenish Qty
E3251	EDGE HOUSING	3,187.47	1,914.49	2,997	0	2,000	0	0	0	0	0
E3090	EDGE HOUSING	2,818.44	1,495.08	2,198.1	0	3,000	0	0	0	0	0
E3091	EDGE HOUSING	2,528.42	1,350.94	1,974.2	0	2,000	0	0	0	0	0
E3089	EDGE HOUSING	3,081.07	1,733.8	1,960.6	0	3,000	0	0	0	0	0
E5425	EDGE HOUSING	3,231.7	1,795.33	1,000	0	3,500	0	0	0	0	0
E5410	EDGE HOUSING	3,061.49	928.57	1,000	0	2,000	0	0	0	0	0
E5439	EDGE HOUSING	2,751.86	2,358.54	960	0	2,000	0	0	0	0	0
E5453	EDGE HOUSING	2,173.09	515.99	700.6	0	2,000	0	0	0	0	0
FRAME 6...	FRAMES	0	84	200	0	0	225	225	225	225	225
9837-540...	WHEEL	0	5	10	4	0	0	0	0	0	0
9847-540...	WHEEL	3	53	0	0	11	0	0	0	0	0
9846-540...	WHEEL	2	50	0	8	0	14	14	14	14	14
9845-540...	WHEEL	6	54	0	8	30	22	22	22	22	22

**For questions or a demonstration of the PULSE software,  
call Terry Lanham in Cincinnati at (513) 723-8091**

In one afternoon, you can have PULSE installed and running on your computer with your data. We include UNLIMITED software updates, UNLIMITED on-going training and UNLIMITED phone support. We encourage your phone calls with suggestions for making PULSE work better for your organization. Most enhancements are made at no charge.

Visit [www.PulseDashboard.com](http://www.PulseDashboard.com)

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