

Take charge of your business with PULSE Dashboard & Analytics Software

Material Requirements Planning (MRP) Module

PULSE DASHBOARD is revolutionary software that lets you leverage your Macola® investment in a new way —with a real-time display of vital business metrics and detailed analysis with the click of a mouse. You can track critical factors for your business on-screen and in real time. Other PULSE Dashboard modules include Executive, Customer Service & Shipping, Financial, Sales and Marketing, Inventory, Purchasing, and MRP.

PULSE Dashboard & Analytics adds value to your Macola® investment

- Manage real-time data, on-screen, company-wide, all the time
- Important metrics not found in standard Macola® software
- One-click drill-down to view the underlying details
- One-click report writer to select the report columns you need
- Export all data to Excel/prINTER/PDF/e-mail
- Installation & training in an afternoon

PULSE MRP gives you capabilities not available elsewhere

- No set-up – yes, tedious set-up
- Time phasing of demand and replenishment creates 25 weekly buckets for demand (i.e., customers and production orders) and replenishments (i.e., purchase and production orders).
- The PULSE MRP Orders report is pre-configured. However, the user may easily customize the report in multiple ways to meet your unique requirements.

MRP Detail Report																
Item # Δ																
Loc	Item Description	Byr Plnr	Pur or MFG	MRP - Ord Type	O/H Qty (Loc)	MRP - Demand/Replenish...	MRP - Qty Demand/Replenish	MRP - New Qty On-Hand (Loc)	MRP Ord #	Safety Stk	PO Lead Time	Cust #	OE Order #	Par Item #	Org Ord #	PO Ord #
Item #:	POLY SH #451-CA															
...	BEARING	M	Production (Demand)		14	7/17/21	-10	4	00217931	0	90			451D-E5431	00217931	
...	BEARING	M	Production (Demand)		14	7/18/21	-1	3	00219391	0	90		00232557	451-E5446	00219391	
...	BEARING	M	Production (Demand)		14	7/21/21	-2	1	00218281	0	90			451-E3409	00218281	
...	BEARING	M	Production (Demand)		14	7/21/21	-1	0	00218592	0	90		00231261	451-E5446	00218592	
...	BEARING	M	Purchase (Replenishment)		14	7/25/21	1	1	01727300	0	90					01727300
...	BEARING	M	Production (Demand)		14	8/8/21	-1	0	00218628	0	90		00231281	451-E5421	00218628	
...	BEARING	M	Production (Demand)		14	8/9/21	-4	-4	00218654	0	90		00231321	451-E5452	00218654	
...	BEARING	M	Production (Demand)		14	8/15/21	-1	-5	00219467	0	90		00232917	451-E5442	00000000	
Item #:	POLY SH #451-R															
...	BEARING	M	Purchase (Replenishment)		0	7/18/21	2	2	01722000	0	90					01722000
...	BEARING	M	Production (Demand)		0	7/24/21	-2	0	00218380	0	90		00231146	986836	00218380	
Item #:	POLY SH #500-CA															
...	BUSHING	P	Production (Demand)		53	5/9/21	-4	49	00205525	0	90		00214566	500-E5421	00205525	
...	BUSHING	P	Production (Demand)		53	7/8/21	-16	33	00218282	0	90			500-E3409	00218282	
...	BUSHING	P	Purchase (Replenishment)		53	7/25/21	2	35	01727300	0	90					01727300
...	BUSHING	P	Production (Demand)		53	8/1/21	-2	33	00219361	0	90		00232539	500-E5442	00219361	
Item #:	POLY SH #501-CA															
...	BUSHING	P	Purchase (Replenishment)		0	7/25/21	1	1	01727300	0	90					01727300
...	BUSHING	P	Production (Demand)		0	8/1/21	-1	0	00219359	0	90		00232539	501-E5442	00219359	
Item #:	POLY SH #502															
...	BUSHING	P	Production (Demand)		286	7/16/21	-20	266	00217098	0	90		00229653	902098	00217098	

PULSE Shortage Reports by Item Number, Production Order, or Customer

Production order shortages - all components - showing P/O's

Production order shortages - only shortage components - showing P/O's

MRP Detail Report

Shortages Reports

Sales Orders - Component Availability

Mfg Items - Component Availability

Production Components Causing Shortages by Item Number

Vend #	Item #	Item Description	Par Item #	MRP - Ord Type	Cust #	Org Ord #	MRP - Demand/Replenish Date	MRP - Calc Demand Qty	MRP - New Qty On-Hand (Loc)
BACK-SEE SPEC	LABELS	500-E5421	Production (Demand)	00205525	5/9/21		4	-4	
BACK-SEE SPECS		6359-3251	Production (Demand)	00216213	6/20/21		3	-3	
BACK-SEE SPECS		6354-3693	Production (Demand)	00217225	6/28/21		1	-4	
BACK-SEE SPECS		6354-5425	Production (Demand)	00217226	6/28/21		3	-7	
BACK-SEE SPECS		6354-5435	Production (Demand)	00217227	6/28/21		4	-11	
BACK-SEE SPECS		6354-3089	Production (Demand)	00217221	6/28/21		8	-19	
BACK-SEE SPECS		6359-5410	Production (Demand)	00217238	6/28/21		6	-27	
BACK-SEE SPECS		6354-3251	Production (Demand)	00217224	6/28/21		2	-21	
BACK-SEE SPECS		6354-5420	Production (Demand)	00217533	7/2/21		2	-29	
								2,420.84	
[X] [MRP - Ord Type] = 'Customer (Demand)' Or [MRP - Ord Type] = 'Production (Demand)'									

Production Components Causing Shortages by Production Order Number

MRP Ord #

Org Ord #	Item #	Item Description	MRP - Demand/Replenish Date	Par Item #	POP Item Desc 1	MRP - Calc Demand Qty	MRP - New Qty On-Hand (Loc)
MRP Ord #: 00199997 (MRP - Calc Demand Qty: 1)							
0019...	POLYSH 87/88-CA	BUSHING	4/10/21	87-E5421	MOTOR 2 HP	1	-1
						1	
MRP Ord #: 00200633 (MRP - Calc Demand Qty: 2)							
0020...	VELCRO CUSTOMER	VELCRO	4/1/21	57-E5421	WHEEL	1	-1
0020...	POLYSH#57/58-CA	BUSHING	4/1/21	57-E5421	WHEEL	1	-1
						2	
MRP Ord #: 00203894 (MRP - Calc Demand Qty: 6)							
							882

Production Components Causing Shortages by Customer (IMPORTED)

Cust #

OE Order #

Org Ord #	Item Description	Par Item #	POP Item Desc 1	Item #	MRP Ord #	MRP - Ord Type	MRP - Demand/Replenish Date	MRP - Calc Demand Qty	MRP - New Qty On-Hand (Loc)
Cust #: (MRP - Calc Demand Qty: 294,949.2)									
OE Order #: (MRP - Calc Demand Qty: 138,575.08)									
	GROMMET		#10 GROMMET	FORECAST	Forecast (Dema...		7/11/21	4	-12

PULSE Shortages Reports by Production Order with Drill-Down to View Anticipated Purchase Order Replenishments

This report displays the components of each production order containing a shortage. You can click on the component item to view any outstanding purchase order(s). This allows you to determine whether a purchase order exists, its due date, and its expected quantity. This allows you to see if a shortage will be covered by one or more purchase orders (or not).

Shortages by production order number showing all components																	
Mfg Ord # △																	
Production Ord Status	Prod Cat	Mfg Order Due Dt	Par Item #	POP Item Desc 1	Item #	Item Description	Pur or MFG	MRP - Demand/Replenish Date	MRP - Calc Demand Qty	MRP - Avail?	MRP - Net Qty O/H (Loc)	On-Ord Qty (All Loc)	Qty Allocated (Loc)	MRP Qty Avail (Loc)	Qty Avail (Loc)	Gross Demand Qty (Loc)	MRP - Ord Type
Mfg Ord #: 00203894 (MRP - Calc Demand Qty: 6)																	
R	FRA	5/5/21	6391-54...	TURNTABLE...	FRAME 63...	FRAMES	P	4/22/21	3	N	233	416	113	0	-113	114	Production (Demand)
R	MIS	5/5/21			FREIGHT...	FREIGHT	P	4/22/21	3	N	-183	0	113	0	-113	114	Production (Demand)
									6								
Mfg Ord #: 00204629 (MRP - Calc Demand Qty: 2)																	
I	FRA	5/1/21	6390-32...	TURNTABLE...	FRAME 63...	FRAMES	P	4/18/21	1	N	93	192	61	0	-61	68	Production (Demand)
I	MIS	5/1/21			FREIGHT...	FREIGHT	P	4/18/21	1	N	-99	0	61	0	-61	68	Production (Demand)
									2								
Mfg Ord #: 00205072 (MRP - Calc Demand Qty: 1)																	
R	POL	7/14/21	6369S...	TURNTABLE...	POLY RH...	BUSHING	P	7/1/21	1	N	-2	0	1	0	-1	7	Production (Demand)
									1								
Mfg Ord #: 00205401 (MRP - Calc Demand Qty: 24)																	
R	PAC	4/24/21	6370S...	TURNTABLE...	SELF-TIE...	PACKAGING	M	4/11/21	12	N	-378	0	359	0	-359	227	Production (Demand)
R	POL	4/24/21			POLY RH...	BUSHING	P	4/11/21	12	N	-71	0	77	6	-71	6	Production (Demand)
									2,627.84								
Purchase Orders Scheduled to be Received (Item # = FRAME: 6391)																	
Vend #	Vend Name		Item #	Item Description		Qty Ordered	Qty Allocated (Loc)		PO Ord #	Ord Dt	Promise Dt	Request Dt	△	Loc	PO Remaining Qty		
000000017900	DAYTON TRUCKING		FRAME...	FRAMES		200			113 01706400	7/1/21	10/31/21	7/1/21		CIN	200		
000000017900	DAYTON TRUCKING		FRAME...	FRAMES		216			113 01619900	4/30/21	8/25/21	8/25/21		CIN	216		

In the PULSE Inventory Module, Time-Phasing is Included on the Item Detail View Screen

MRP time phasing is included in the existing PULSE Inventory Item Detail View screen. In addition to viewing critical data on each inventory item, you can view the projected on-hand quantity by week based on demand and replenishment. Use the Inventory Item Detail View to create a detailed MRP view in seconds.

Item Details View

Item: 6210-3089 - PRODUCT LINE TRUCK

Loc: (ALL)

Group: (ALL)

View Transactions

Transaction Date

From: 1/1/2014

To: 6/20/2014

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
2	93	212	-91	0.01	06/20/14		06/20/14	758	1,787	148.9	0.00

MRP Summary

	Totals	Past Due	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Weeks 7-10	Weeks 11-14	Weeks 15-18	Future
> Demand	93								93			212
Replenish	212											
Net O/H	121	2	2	2	2	2	2	2	-91	-91	-91	121

MRP Details

Drag a column header here to group by that column

MRP - Ord Type	MRP - Ord Dt	MRP Ord #	MRP - Demand/Replenish Date	MRP - Qty Demand/Replenish	MRP - New Qty On-Hand (Loc)	MRP - ATP Qty Avail
Customer (Demand) - Short	7/19/14	00232499	8/1/14	-6	-69	-69
Customer (Demand) - Short	7/21/14	00232762	8/4/14	-6	-75	-75
Customer (Demand) - Short	7/21/14	00232765	8/4/14	-4	-79	-79
Customer (Demand) - Short	7/21/14	00232839	8/4/14	-2	-81	-81
Customer (Demand) - Short	7/21/14	00232866	8/4/14	-4	-85	-85
Customer (Demand) - Short	7/21/14	00232887	8/4/14	-8	-91	-91
Production (Replenishment)	7/9/14	00218077	7/18/15	100	9	9
Production (Replenishment)	7/16/14	00218994	7/25/15	112	124	121

Bill of Material

Item #	Item Description	Qty Per Par	ATP Qty Needed	O/H Qty (Loc)	Qty Allocated (Loc)	On-Order Qty (Loc)	Scrap Factor	Scrap Qty	Attaching Oper #
CARTON FRONTGAT	SHIPPING CARTON	1	0	31,807.2	5,873.1	4,500	0	0	0 N
E3089	EDGE HOUSING	0.69	0	3,081.07	1,733.8	4,960.6	0	0	0 N
EW39R	EDGE HOUSING	1	0	396.868	5,381	0	0	0	0 N

In the PULSE Production Module, Time-Phasing is Included in the Component Causing Shortages Screen

This screen pinpoints component shortages over the next X days. The second screen below is the drill-down screen displaying the demand and replenishment details for each component in date order.

Component shortages for POP/SFC orders								
Drag a column header here to group by that column								
Loc	Item #	Item Description 1	Item Pur or MFG	Vend #	Earliest Demand	O/H Qty (All Loc)	MRP - Replenish Orders Count	Net Qty (Loc)
CIN	POLY ...	BUSHING	P	000000005800		0	3	-13
CIN	POLY ...	BUSHING	P	000000005800		0	3	-40
CIN	POLY ...	BUSHING	P	000000005800		0	3	-39
CIN	POLYS...	BUSHING	P	000000005800		0	2	-22
CIN	POLY ...	BUSHING	P	000000005800		0	2	-16
CIN	FRAME...	FRAMES	P	000000017900		0	2	303
CIN	FRAME...	FRAMES	P	000000017900		0	2	131
CIN	POLY ...	BUSHING	P	000000005800		0	1	-8
CIN	POLY ...	BUSHING	P	000000005800		0	1	-651
CIN	VELCR...	VELCRO	P		6/28/13	0	0	-1,142
CIN	VELCR...	VELCRO	P		4/1/13	0	0	-1,558
CIN	VELCR...	VELCRO	P		6/18/13	0	0	-218
CIN	SELF-...	PACKAGING	M		4/1/13	0	0	-359
CIN	SELF-...	PACKAGING	M		6/20/13	0	0	-68
MRP - Ord Type	MRP - Ord Dt	MRP Ord #	Vend #	MRP - New Qty On-Hand (Loc)		MRP - Qty Demand/Replenish		MRP - Demand/Replenish Date
Production (Demand)	4/30/13	00209524		-5		-6		5/22/13
Purchase (Replenishment)	5/9/13	01632100	000000005800	1		1		5/15/13
Production (Demand)	7/14/13	00218639		-4		-1		8/8/13
Production (Demand)	7/14/13	00218669		-6		-2		8/9/13
Production (Demand)	7/15/13	00218697		-10		-4		8/10/13
Production (Demand)	7/15/13	00218862		-6		-4		7/24/13
Purchase (Replenishment)	7/16/13	01724000	000000005800	-2		3		7/22/13
Production (Demand)	7/21/13	00219390		-12		-2		8/14/13
Production (Demand)	7/21/13	00219412		-13		-1		8/16/13
Purchase (Replenishment)	7/21/13	01727966	000000005800	-3		3		7/25/13

The PULSE MRP Detail Report Pinpoints Shortages by Item Number, Production Order, Vendor, Customer, Product Category, etc.

The MRP Orders Causing Shortages screens display shortages. In this example, it is by order number:

MRP Detail Report															
Item #															
Loc	Item Description	Byr Plnr	Pur or MFG	MRP - Ord Type	O/H Qty (Loc)	MRP - Demand/Replenish.	MRP - Qty Demand/Replenish	MRP - New Qty On-Hand (Loc)	MRP Ord #	Safety Stk	PO Lead Time	Cust #	OE Order #	Par Item #	Org Ord #
Item #															
Item #: POLY SH #451-CA															
...	BEARING	...	M	Production (Demand)	14	7/17/21	-10	4	00217931	0	90			451D-E5431	00217931
...	BEARING	...	M	Production (Demand)	14	7/18/21	-1	3	00219391	0	90		00232557	451-E5446	00219391
...	BEARING	...	M	Production (Demand)	14	7/21/21	-2	1	00218281	0	90			451-E3409	00218281
...	BEARING	...	M	Production (Demand)	14	7/21/21	-1	0	00218592	0	90		00231261	451-E5446	00218592
...	BEARING	...	M	Purchase (Replenishment)	14	7/25/21	1	1	01727300	0	90				01727300
...	BEARING	...	M	Production (Demand)	14	8/8/21	-1	0	00218628	0	90		00231281	451-E5421	00218628
...	BEARING	...	M	Production (Demand)	14	8/9/21	-4	-4	00218654	0	90		00231321	451-E5452	00218654
...	BEARING	...	M	Production (Demand)	14	8/15/21	-1	-5	00219467	0	90		00232917	451-E5442	00000000
Item #: POLY SH #451-R															
...	BEARING	...	M	Purchase (Replenishment)	0	7/18/21	2	2	01722000	0	90				01722000
...	BEARING	...	M	Production (Demand)	0	7/24/21	-2	0	00218380	0	90		00231146	986836	00218380
Item #: POLY SH #500-CA															
...	BUSHING	...	P	Production (Demand)	53	5/9/21	-4	49	00205525	0	90		00214566	500-E5421	00205525
...	BUSHING	...	P	Production (Demand)	53	7/8/21	-16	33	00218282	0	90			500-E3409	00218282
...	BUSHING	...	P	Purchase (Replenishment)	53	7/25/21	2	35	01727300	0	90				01727300
...	BUSHING	...	P	Production (Demand)	53	8/1/21	-2	33	00219361	0	90		00232539	500-E5442	00219361
Item #: POLY SH #501-CA															
...	BUSHING	...	P	Purchase (Replenishment)	0	7/25/21	1	1	01727300	0	90				01727300
...	BUSHING	...	P	Production (Demand)	0	8/1/21	-1	0	00219359	0	90		00232539	501-E5442	00219359
Item #: POLY SH #502															
...	BUSHING	...	P	Production (Demand)	286	7/16/21	-20	266	00217098	0	90		00229653	902098	00217098
...	BUSHING	...	P	Production (Demand)	286	7/16/21	-20	246	00217104	0	90		00229658	902098	00217104
...	BUSHING	...	P	Production (Demand)	286	7/16/21	-15	231	00217102	0	90		00229658	902080	00217102
...	BUSHING	...	P	Production (Demand)	286	7/16/21	-30	201	00217097	0	90		00229653	902080	00217097
...	BUSHING	...	P	Purchase (Replenishment)	286	7/24/21	35	236	01710500	0	90				01710500
...	BUSHING	...	P	Purchase (Replenishment)	286	7/24/21	50	286	01710500	0	90				01710500

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