

Advance Manufacturing Solution

Plant-One system is advanced manufacturing solution that provides all functions about manufacturing from Bill of material, costing, Backward planning (MPS, Seiban, MRP, E-Kanban), Forward planning, production scheduling (Advanced production scheduling (EDD, OTM), Shop Floor Control and QC Process by barcode system and integrated real-time information with ERP (SAP Business One & Microsoft NAV).



MPS, SEIBAN, MRP, E-KANBAN

- Plan Order
- Work Orders
- Purchase Requisition

APS

- EDD Earliest Due Date
- OTM Optimization

Shop Floor Control Barcode

- Work Order
- Picking List
- Part Tag
- Picking Instruction

Plant-One, Advanced manufacturing add-on (SAP Business One/NAV) automatically integrates the information from different sphere of business from Production, Sales order, Purchase, Inventory control and Financial costing. Once the order is received from customer, Plant-One recommends the order to the production by backward planning. Plant-One not only provides the integration of data but also provides with the planning for each product. Using the various planning features already built in the system. MPS / Seiban /MRP / E-Kanban System will propose Work orders & Purchase Requisition to support the production plan.

Once the proposed Work orders are generated, Management can either approve or modify it. Approved production will be published to the production schedule. After Production is scheduled it evaluated the resource capacity then accordingly arrange for APS to run planning to ensure production plan by backward/forward.

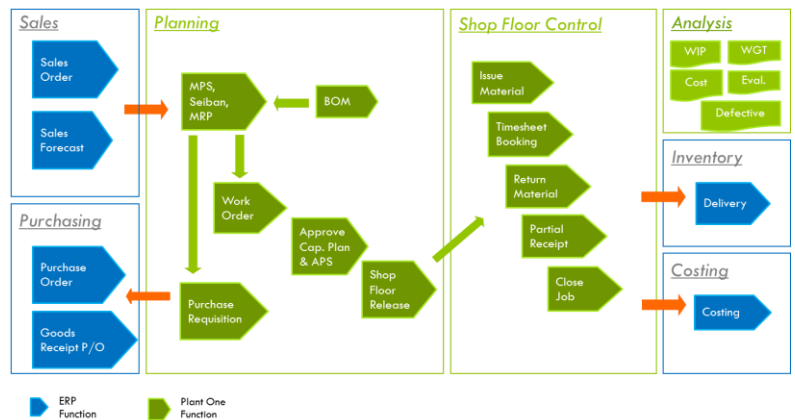
Work Order can be changed, Split/Merge, or rescheduled before release. After reevaluating production plan it's ready to release and print, Work order can be printed with barcode for shop floor control. (System will check enough material and suggest machine the time of production plan. Purchase requisition will be generated by MRP. Procurement to consolidate and generate purchasing data in SAP Business One/Dynamics Nav. Purchase order to vendor, goods receipt and A/P invoice are fully integrated with the chosen ERP. On Commencement of production, Work orders are scanned to issue materials, track routing status and track employees' performance. On completion of work order, a summary production status with barcode is printed and then work order is closed. System will automatic process work order cost and inventory posting to ERP.



At a Glance

Basic Functions

- Bill Of Materials
- Master Production Schedule (MPS)
- Seiban (MTO)
- Materials Requirement Planning (MRP)
- Advanced Production Scheduling (APS)
- Shop Floor Control
- Subcontract Process
- Purchase Requisition
- Quality Control
- Costing.



MPS: Master Production Scheduling for Mass Production Plan

Code	Name	MPS	E	05-01	01-01	29-01	01-01
FG_FOODS	FG FOODS	Plan Order		0	0	0	0
FG_FOODS	(DTF= 0, PTF= 0)	Exist Order		0	0	0	0
FG_FOODS	(Batch Size= 5000)	Total Supply		0	0	0	0
FG_FOODS	(Min Lot Size= 5000)	Sales Order		0	0	0	0
FG_FOODS	(HYBRID)	Sales Forecast		0	0	0	0
FG_FOODS	Daily	Total Demand		0	0	0	0
FG_FOODS	(Stock= 900)	POH		-100	4,900	4,900	4,900
FG_FOODS	(Safety= 1000)	PAB		4,900	4,900	4,900	4,900
FG_FOODS		ATP		0	0	0	0
FG_FOODS	FG FOODS	MPS	R	5,000	0	0	0

MRP: Material Requirement Planning (Safety Stock & ROQ)

Product	ProductName	Notify	OrderRC	OnHand	Committed	Ordered	AVE	SS
FG_BATCH	FG BATCH	*	5000	548	4400	5000	564.6	0
FG_SELECT	FG Electronic	*	500	0	0	2400	2400	600
FG151001	FG COSMETIC	*	5000	0	4500	5000	500	0
FORBF244	RBF244	*	500	80	0	1130	1210	0
HRFA0186A	FIN TUBE EVAPOLATOR	*	1000	0	0	10900	10000	0
HRFA0186AS1	FIN TUBE EVAPOLATOR S	*	8000	0	10800	10900	0	0
SM_BATCH	SM batch item	*	5910	2090	10000	7910	0	0
SM_SEIBAN	SM_SEIBAN	*	100	0	1120	1120	0	0
SM_WOOD_LEG	SM WOOD LEG	*	1000	0	1000	1000	0	0
HRFA0186AS2	FIN TUBE EVAPOLATOR S	*	6000	0	10900	10900	0	0

APS: Advanced Production Scheduling recommends new Production Plan after Forward Planning.

Production Status	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
1001A																						
1001B																						
1001C																						
2001A																						
2001B																						
3001A																						
3001B																						

Active Monitoring System: Real-time active production data display on LED TV 40"

Today Status		PLAN	11560	REMAIN	10940	95 %	
All Work Center		ACTUAL	620	DELAY	9040	78 %	
		PROGRESS	6 %	DEFECT	0	0 %	
Machine	Work No.	Name	Plan	Actual Unit	Finish Status	Delay (hr)	Remark
1001A	W15G002058	SM_SEIBAN	3000.00	0.00 PCS	01-Jun-15 09:53 Release	9hr	Delay
1001A	W15G001097	SM_MRP	100.00	100.00 PCS	08-Jul-15 10:05 Finish		Complete
1001A	W15G001106	SM_SEIBAN	1000.00	100.00 PCS	03-Aug-15 12:05 Start		In Progress
1001B	W15G001103	SM_SEIBAN	20.00	0.00 PCS	08-Jul-15 10:05 Release	77	Delay
1001C	W15G001111	SM_MRP	100.00	100.00 PCS	09-Jul-15 10:05 Finish		Complete
1001C	W15G001100	SM_SEIBAN	10.00	10.00 PCS	09-Jul-15 12:26 Finish		Complete
2001A	W15G002057	SM_SEIBAN	3000.00	0.00 PCS	25-Jun-15 16:00 Release	383	Delay
2001A	W15G001096	SM_MRP	100.00	100.00 PCS	09-Jul-15 12:10 Finish		Complete
2001A	W15G001110	SM_MRP	100.00	100.00 PCS	10-Jul-15 12:10 Finish		Complete
2001B	W15G001102	SM_SEIBAN	20.00	0.00 PCS	08-Jul-15 12:10 Release	75	Delay
2001B	W15G001099	SM_SEIBAN	10.00	10.00 PCS	09-Jul-15 13:31 Finish		Complete
2001B	W15G001105	SM_SEIBAN	1000.00	0.00 PCS	20-Aug-15 08:10 Release		Wait

Shop Floor Control: Support production by Barcode System (Issue Materials/ Start-Stop Work/ Complete Work)

Work Order		PLANT ONE DEMO	
Work Order No.	W15J000231	Production Date	21-October-2015
Material (SM or FG Name)	FG_MRP	Quantity	1,000 PCS
BOM No.	FG_MRP	Warehouse	01 FG Warehouse
Status	Release	Warehouse	COMMON
Issue No.	W15J000231	From WH / ผลิต	30
Product / วัสดุ	BM PART	Quantity	2,000.000 PCS
Part material / วัสดุ	BM PACKAGE	Quantity	2,000.000 PCS
Packaging Materials / วัสดุ	BM	Quantity	1,000.000 PCS
Raw material / วัสดุ	1010 CUTTING	Start-Finish	21-Oct-2015 0:00 - 21-Oct-2015 10:05
Machine	10CUT1	STD. Time	605

Key Benefits

- Managing production by Real-Time information system
- Best Practice Easy for Implementation
- Easy for production users with fully barcode system
- Accurate information for ERP by integrated solution
- Ready to use 300 reports
- Cover all production areas with lower total cost

Key Features

- Backward Planning MPS, Seiban, MRP
- E-Kanban (ERP-Kanban)
- Forward Planning (APS by EDD, Optimization)
- Fully Barcode System in SFC Module
- Active Monitor Display
- Cost Distribution

Technical Support

Operating System: Windows 7-10
 Database : SQL 2005-2014
 ERP : SAP Business One 2007-9.2, NAV2009-13

Contact Person

Mr. Pakpoom Saebe/ Plant One Co. Ltd
 Email: pakpoom.planone@gmail.com
 Tel: 018-912-9118