Евоок

10 Graphical Functions a Production Planning Table Should Offer





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Introduction

As NETRONIC, our main focus is on developing and providing Gantt charts for planning and scheduling. According to our experience, manufacturing companies highly benefit from intelligent planning tables, since, when it comes to production planning, graphical planning tables provide valuable assistance as to visualizing complex contexts and bringing transparency to production planning data. Visual planning boards are proven tools for controlling and managing your production, and for scheduling production orders

Yet, you may ask yourself how to recognize an intelligent and powerful planning board. What are the "basic functions" a graphic planning table for use in manufacturing companies needs to offer to convey meaningful information and support decision makers and production planners in the best possible way? How can a planning table ease the typical daily work of a production planner as it helps him focus on relevant information?

In our e-book we have compiled and outlined for you 10 key features an intelligent planning board should offer.





1. Switching between a machine and an order view

Production is no one-dimensional process - so use multi-dimensional views and keep track of the delivery dates in an order view and manage the resource load in a machine view.

Group by Order No and Row No Vorkplace and Working Plan		Group by Order No and Row No Workplace and Working Plan							
Order No Row No 31 01 02 03 04 0 ▲ AU1106137	August 2013 5 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Work Place Working Plan G1M11	August 2013 11 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 2						
▶ 10000 ▲ AU1107228	-	G1IV-BF500 G1PRESSEN-B							
▶ 5000 ▶ 10000 ▶ 30000		 ▶ G1PRESSEN-S ▲ G1M14 ▶ G1DL-SORT-B 							
▶ AU1109193 ▶ AU1114698 ▶ AU1115912		 ▶ G1DL-SORT-B ▶ G1DL-SORT-B ▶ G1DL-SORT-L 							
▲ AU1116578 ▶ 10000		G2M10 ↓ G2BEIZEN-BF							

2. Flexible and infinitely variable timescale

Planning horizons are never static. Sometimes you may need a rough overview of what to expect in the next weeks while other occasions and decisions needs require that you immediately delve into the daily details. Expand or shrink the timescale with the mousewheel and zoom stepless from a long-term overview into short-term planning.

		Ja	nuary 2014 - C	W 04	Production Order	sday, 01/.	22/2014		Thursday, 01/23/2014			
Production Order		22	23	24	Production Order	12:00	18:00	00:00	06:00	12:00	18:00	00:0
Planned		Date			Planned			Date				
D 101001 - 10000		/ork	10	20	D 101001 - 10000			Vork		10		
Þ 101003 - 10000	0	20	30 40		D 101003 - 10000	20				30 4	10	
Þ 101004 - 10000				1 20 30	D 101004 - 10000							
Þ 101006 - 10000					D 101006 - 10000							
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Þ 101044 - 10000					D 101044 - 10000							
Þ 101045 - 10000					D 101045 - 10000							
Þ 101049 - 10000					D 101049 - 10000							
▷ 101065 - 10000					D 101065 - 10000							



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3. Visualization of groups

Summarize information according to contents: Production orders together with suborders and operations; departments with work groups and work centers. Use one-, two- or multilevel grouping for creating a general overview and at the same time accessing detailed information after having expanded the respective levels.

	No and Row No ace and Working Plan													
Item No	Work Place	Stock	Req. Qty	Miss. Qt	Miss. Qty									
1001110	WORKFlace	otock	10041-0207	Phiss. QL	VP	03	04	05	06	07	08	09	10	11
♦ AU1106														
▶ AU1107.	228													
▶ AU1109														
▲ AU1114														
⊿ 10000														
7321100	G3M15	2.000	96.000	0.000	0.000									
7221100	G3M13-SCH	350.000	96.000	96.000	0.000				///////					
7421200	G2M13	269.000	96.000	96.000	96.000		*****							
7821200	G2M14-BÜRSTEN	761.000	96.000	96.000	96.000									
1132200	G4M10	168.000	96.000	96.000	96.000									





4. Histogram for displaying capacities

Optimizing the machines' capacity utilization is one of the key challenges in production planning, so that visualizing the machine load in a capacity graph ("histogram") is definitely a must have. Bottlenecks as well as unused resources can be recognized immediately and our live-update function is the perfect tool for rescheduling resources. The effects of a mouse interaction are being visualized immediately during the operation and not only upon ending it. Every mouse movement results in updating the node, the consequences of the interaction for the overall planning becoming visible in the histogram at once so that the planner can quickly find the new optimum position for the job respectively the resource.







5. Visualization of dependencies

If multi-level production is concerned it will not do to plan the single operation only. It's important to know the effects the modification will have on the succeeding and the preceeding operations. Recognize and plan interlinked operations or order networks by making links visible. Reschedule successors automatically if a predecessor has been moved.

	A Resource	MARY		
	Schedule	MARY	Mary A. Dempsey	
	4 1120 : Posting	Selecting F	urnishings	
	A Resource	MARY		
	Schedule	MARY	Mary A. Dempsey	
l	4 1130 : Posting	Obtaining Customer Approval		
	A Resource	Resource MARY		
	Schedule	MARY	Mary A. Dempsey	
	🖌 1200 : Begin-Total	Assembling	g the Furniture etc.	
	4 1210 : Posting	Assembling	g the Furniture etc.	
	🖌 Item			
	Schedule	1896-5	ATHENS Desk	
L	Schedule	1906-5	ATHENS Mobile Pedestal	

6. Visual alerts

Visual alerts translate your business rules into the planning board and thus bring them to the planner's attention. They are the "soul" of visual planning. Use data-driven visualization and send signals to warn the planner if there's a risk of not keeping a delivery date, if operations on machines could overlap or if rescheduling violates the sequences of operations.







7. Individual calendar settings

One-, two- or even multi-shift work? No problem for a state-of-the-art planning board. Define individual calendars with different working times for each machine or resource. It goes without saying that the individual calendars will not only be visualized but will also take effect on the (re)-scheduling.

		Job No	lab a serie	Technome	Start	Durati	Wednesday, 26/11/2014												
\$	5	Job No	Jobname	Taskname	End	Durati	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	00:00			
	Ar	tWork																	
	►	Sachin																	
	►	Amol				AKS	AKS												
	▲ Pla	ateMaking																	
	►	Hiedleberg	Suprasetter 105																
	د C	utting																	
1	►	Polar 117						[Pre	Pre		Pre							
	►	Schinder Cu	ıtting						E	Ν									
	e Pr	inting																	
	►	Heidelberg	Sm72v						Pr		Pri		Pri						
	►	Kamori Spri	ine																
-	▲ Lamination																		
	•	Straight Lar	mination						silver										
	►	Window lar	nination																





8. Interactive moving of operations

Only a plan that can be adjusted to reality is vivid and hence can be called a good plan. Drag and drop allows for intuitive, quick and simple planning while never losing track of the modifications' effects on the overall plan.

~	Đ	Job No	Jobname	Taskname	Start	Durati	Wednesday, 26/11/2014											
\$			Jobname		End	Durati	06:00	08:00) 10:00	12:00	14:00	16:00	18:00	20:00	22:00	00:00		
4	Ar	tWork																
	۲	Sachin																
	۲	Amol						AKS	AKS									
4	Pla	ateMaking																
	۲	Hiedleberg	Suprasetter 105				art:	Move Node 26/11/2	014 12:06									
4	Cu	ıtting						nd:										
	۲	Polar 117																
	۲	Schinder Cu	ıtting															
4	Pri	inting								/								
	۲	Heidelberg	Sm72v						Pr		Pri		Pri					
	۲	Kamori Spri	ine															
4	La	mination																
	۲	Straight Lar	mination									silver	I					
	۲	Window lan	nination															





9. Automatic scheduling

Don't only visualize dependencies but also take them into account while rescheduling. Interlinked, i.e. dependent operations will move automatically when a node of the chain or the net is moved.

~	Ð	Job No	Jobname	Taskname	Start	Durati	Wednesday, 26/11/2014												
\$					End	Durati	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	00:0			
4	Art	Work																	
	×	Sachin																	
	Þ	Amol						AKS	AKS										
	Pla	teMaking																	
	•	Hiedleberg	Suprasetter 105																
	Cut	tting																	
	Þ	Polar 117					Pre Pre Pre												
	•	Schinder Cu	itting				FIN												
	Pri	nting																	
	►	Heidelberg	Sm72v							-	Pr Pr	i	Pri						
	×	Kamori Spri	ne																
4	Lar	nination																	
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	×	Window lan	nination																





10. Print functionality

Print versions of planning boards are a valuable means of communication in meetings and presentations. The print functionality enables printing of complex plans spanning several weeks for managers as well as a production execution plan for the next work week.





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Free Trial: Empower Your Scheduling Application

Do you want to know more about the powerful features of VARCHART XGantt or would you like to try yourself and benefit from our vivid samples?

<u>Download</u> our free trial version of VARCHART XGantt and have a look at the included sample collection.



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