

### Delivering the Right Product on Time at the Optimal Cost

# NetSuite Production Scheduling

<image>

Scheduling is one of the most complex functions within a manufacturing process. For years, the challenge has always been to find a solution that has the complexity to achieve the desired results while not sacrificing usability. NetSuite's Production Scheduling solution achieves this balance with a number of features that make it possible to create a realistic schedule with minimal effort.

#### **Key Benefits**

- Real-time scheduling engine—both forward and backwards.
- Flexible scheduling code to enable light to dark sequencing.
- Choice of infinite or finite scheduling with user definable constraints.
- Multiple graphical representations of the schedule.
- Drag-and-Drop scheduled operations for manual override.



### Drag and Drop Scheduling

The task scheduler in NetSuite shows the popular Gantt chart view of production with the ability to manually drag operations for last minute changes.

### **Real-Time Scheduling Engine**

The NetSuite scheduling engine is unique in that it runs in real-time and can be set to automatically schedule work orders as they are created or reach a defined status. As the work order is saved, each operation will be scheduled according to the defined parameters.

## Manufacturing Workbench

NetSuite's comprehensive workbench functionality provides a single place where most of the configuration is performed. From this one screen you can define:

- Setup and run standards
- Lag and hold time
- Batch configuration
- Asset and labor requirements with priorities
- Detailed work instructions
- Inspection plans with acceptable tolerances

## **Batch Scheduling**

For manufacturers who make their products in batches to match the capacities of their machines (specifically food and beverage manufacturers but broadly applicable), this can easily be attained by defining the appropriate batch parameters.

Once this is done, the system will create and schedule each batch separately to ensure compliance with the capacities of the equipment that's running them.



Planning Information				
SCHEDULING METHOD Forward	PRODUCTION START DATE 3/31/2016	PRODUCTION END DATE 5/9/2016	PLANNING PRIORITY CODE 02 - Standard Priority	PRIORITY 50
STATUS In Process FIRMED	PLANNED START DATE 4/1/2018	DELWERY DATE 3/31/2016		

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Manufacturing Workbench

### Shop Calendar Definition

When finite scheduling is being conducted, the shop calendar defines when a work center is normally available and can be configured with exceptions for lunch, etc. Individual assets (pieces of equipment) can then be set up with variances to this as required.

### Work Center Dispatch List

The dispatch list in NetSuite is updated to be color coded based on status and date to provide instant feedback to the Production Manager should there be any issues.

### Calendar View

One of the most popular and powerful views of the schedule is the calendar view.

This easy-to-read and understand screen shows a traditional calendar with the work orders that are scheduled to be performed in each work center along with additional critical information for use by the scheduler such as:

- Work order status
- Planned and available hours
- Utilization percentage with alerts
- Planned and completed quantity

### **Real-Time Updates from Production**

One of the most important aspects of scheduling is getting the right information back from production to allow for educated decisions about the schedule. This simple list view shows all of the current work orders and automatically highlights potential problem areas.

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64	Cutting Friday Lunch Days		19/20/15		Repeat Viselity	11.00 am	12:00 pm	No	No	6/5/2015 12:30 pm	6/5/2015 12:30 pm	Kavin Knap	
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#### Shop Calendar Definition

						AM Workcenter	Dispatch Lis	t - Real-Tir	ne			
	WORK ORDER	LOCATION	ITEM	STATUS	OP SEQ.#	OPERATION NAME	ASSET	STATUS	START DATE	END DATE	INPUT QUANTITY	COMPLETED QUANTIT
4	Work Order WWRK00000717	Danys	DAN 4004	in Process	110	Fill Jans	DAN Big Jans Ln 1	Completed	3/31/2016 1:44:00 pm	4/1/2016 2:05:00 pm	900	1,40
	Work Order #WRK00000722	Danys	DAN 4004	in Process	110	Fillars	DAN Big Juns Lin 1	in Progress	4/1.0016 2:05:00 pm	4/4/2016 2:26:00 pm	900	4
16	Work Order #WRK00000724	Danys	DAN 4004	In Process	110	FillJans	DAN Big Jers Un 1	In Progress	3/28/2016/6:00:00 am	3/29/2016 7:43:00 pm	1,800	77
14	Work Order #WRK00000725	Danys	DAN 4004	in Process	110	Fill Jans	DAN Big Jans Lin 1	in Progress	3/29/2016 7:43:00 pm	3/30/2016 8:04:00 pm	900	
jik.	Work Order #WRK00000727	Danya	DAN 4004	Released	110	FillJans	DAN Big Jans Lo 1	Not Started	4/4/2016 2:26:00 pm	4/5/2016 2:47:00 pm	900	
14	Work Order #Wrekcococo728	Danya	DAN 4004	In Process	110	Fillars	DAN Big Jans	Not Started	4/5/2016 2:47:00 pm	4/5/2016 8:45:00 pm	200	
ja.	Work Order #WRK00000730	Danya	DAN 4004	Released	110	FillJan	DAN Big Jans	Not Started	4/6/2016 6:00:00 am	4/6/2016 4:25:00 pm	500	
ju.	Work Onter #WRK00000731	Danys	DAN 4004	Planned	110	Fill Jans	DAN Big Jans Un 1	Not Started	4/8/2016 6:00:00 am	4/8/2016 5:54:00 pm	600	
pe .	Work Order #WRK00000732	Danya	DAN 4004	Planned	110	FillJan	DAN Big Juns	Not Started	4/8/2016 6:00:00 am	4/8/2016 3:40:00 pm	450	
14	Work Order #WRK00000734	Danys	DAN 4004	Released	110	Fillars	DAN Big Jars	Not Started	4/18/2016 8:43:00 pm	4/19/2016 2:23:00 pm	450	
N.	Work Onder #WRK00000736	Danys	DAN 4004	Released	110	Fill Jans	DAN Big Jans Un 1	Not Started	4/25/2016 1:36:00 pm	4/26/2016 12:28:00 pm	800	
N.	Work Order #WRK00000738	Danya	DAN 4004	Released	110	Fillans	DAN Big Jans Lo 1	Not Started	4/26/2016 12:28:00 pm	4/28/2016 7:06:00 pm	2,400	
14	Work Order #W/RK00000 768	Danya	DAN	Released	110	Fillans	DAN Big Jars	Not Biarted	5/13/2016-6:00:00	5/16/2016 7:51:00 am	1,000	

#### Work Center Dispatch List

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Calendar View

PLANNING PRIORITY	ORDER START	OP	DATE	PLANNED	RECORDED	OPEN QTY	COMPLETE
03 - Build For Stock	3/31/2016	3/28/2016	3/30/2016	1,800.0	770.0	1,030.0	42.
02 - Standard Priority	3/31/2016	3/29/2016	4/1/2016	900.0	460.0	440.0	51.
02 - Standard Priority	3/31/2016	3/31/2016	3/29/2016	900.0	1,455.0	-555.0	161.
02 - Standard Priority	3/31/2016	4/1/2016	3/31/2016	900.0	423.0	477.0	47.
01 - Priority Override	4/4/2016	4/4/2016	4/5/2016	900.0	0.0	900.0	0.
02 - Standard Priority	4/5/2016	4/5/2016	3/10/2016	200.0	0.0	200.0	0
03 - Build For Stock	4/6/2016	4/6/2016	4/7/2016	500.0	0.0	500.0	0
02 - Standard Priority	4/8/2016	4/8/2016	4/11/2016	600.0	0.0	600.0	0
02 - Standard Priority	4/8/2016	4/8/2016	3/14/2016	450.0	0.0	450.0	0.

Real-Time Updates from Production

