Manufacturing Industry Overview

Program agenda

- ¹ Overview of Manufacturing industry and terminology
- ² Describe how an organization in the Manufacturing industry functions and the NetSuite FIT
- 3 NetSuite Levels of Manufacturing



Overview of Manufacturing Industry and Terminology



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Basic Manufacturing Flow Example



MANUFACTURING KEY CONCEPTS

- Bill of Materials (BOM)
 - Bill of materials (BOM) is a list of the raw materials, sub-assemblies and components and the quantities of each needed to manufacture an assembly.
- Manufacturing Routing
 - Manufacturing routing is the sequenced manufacturing operations (activities) to be performed. The routing operations specify the department, work center and machine, the time required and the specifications to be referenced. The routing is also used in the standard cost roll up calculations.

MANUFACTURING KEY CONCEPTS

• Work in Process (WIP)

Work in process includes all unfinished items for products in a production process. These
items are not yet completed but either just being fabricated or waiting in a queue for further
processing or in a buffer storage. WIP accounting is used to track costs for jobs as they
pass through the manufacturing process.

Standard Cost

 Estimated or predetermined cost of performing an operation or producing a good or service, under normal conditions. Standard costs are used as target-costs (or basis for comparison with the actual costs), and are developed from historical data analysis or from time and motion studies. They almost always vary from actual costs, because every situation has its share of unpredictable factors.*

MANUFACTURING PLANNING CONCEPTS

•Forecasting

-Forecasting is the activity of estimating the quantity of a product or service that consumers will purchase. Demand forecasting involves techniques including both informal methods, such as educated guesses, and quantitative methods, such as the use of historical sales data or current data from test markets.

•Material Requirements Planning (MRP)

-Material Requirements Planning provides a time phased plan that determines what material is required, when and in what quantity based on supply (Inventory, Purchase Orders, Work Orders) and demand (Forecast, Sales, Service Spares) factoring in item lead times and scheduled due dates.

Capacity Planning

-Capacity planning is the process of determining the resource capacity needed by an organization to meet changing demands for its products. Resources can include:

- Work Centers > Machines > Labor > Tooling

MANFUACTURING EXECUTION CONCEPTS

•Shop Floor Packet

-Package of documents needed for the Shop Floor to execute production

- Traveler
- Drawings
- Specification Sheets
- Labels

Data Capture System

- -System to capture time spent, material used, material scrapped, labor incurred, downtime incurred and quantities completed on the Manufacturing Floor
 - Could be software or paper based system

Execution Reporting

-Reports produced from the data captured from the Manufacturing Floor, used to help management make business decisions

NetSuite Fit Across the Manufacturing Processes



Highest Fit

Lowest Fit

Make to Stock / Forecast You purchase or manufacture products to meet forecasts and put them into stock	Configure to Order Your products have some variability and features / options are selected at order entry	Project-driven / Project Manufacturing You use projects to manage the process of building large / complex products
Assemble to Order You assemble products after receiving an order (and often make sub-components to stock / forecast)	Contract Manufacturing You outsource your production to a 3 rd Party to manufacture on your behalf	Engineer to Order You design and manufacture large / complex one-off products based on customer specifications
Make to Order You manufacture products after receiving an order (and tracking labor and burden costs are		Job Shop You manufacture small batch's of custom product we low repeat business
important) Process-driven You use formulas or recipes, instead of BOMs, and often manufacture in batches	Confidential to Corrige and NetSuite	Continuous Process The materials, either dry bulk or fluids that are being processed are continuously in motion, undergoing chemical reactions or subject to mechanical or heat treatment.

MAKE TO STOCK

Make to Stock - A production environment where products can be and usually are finished before receipt of a customer order. Customer orders are typically filled from existing stocks, and production orders are used to replenish those stocks. Syn: produce-to-stock. Common Micro-Verticals Consumer Electronics Outdoor Products Baby Supplies Lighting

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ASSEMBLE TO ORDER

Assemble-to-Order - (ATO) A production environment where a good or service can be assembled after receipt of a customer's order. The key components used in the assembly or finishing process are planned and usually stocked in anticipation of a customer order. Receipt of an order initiates assembly of the customized product. Syn: finish-to-order.

Common Micro-Verticals High Tech Electronics Consumer Electronics Furniture





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MAKE TO ORDER

Make-to-Order - A production environment where a good or service can be made after receipt of a customer's order. The final product is usually a combination of standard items and items custom-designed to meet the special needs of the customer. Common Micro-Verticals Industrial Supply Custom Furniture Industrial Equipment Building Materials





PROCESS DRIVEN

Process Manufacturing - Production that adds value by mixing, separating, forming, and/or performing chemical reactions. It may be done in either batch or continuous mode

HITE

LABS

PURE YEAST & FERMENTATION

Common Micro-Verticals

Food and Beverage Health & Beauty Chemical





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CONFIGURE TO ORDER

Product Configurator - A system, generally rule-based, to be used in design-to-order, engineer-to-order, or make-to-order environments where numerous product variations exist. Common Micro Verticals Furniture Industrial Electronics Industrial Machinery Capital Equipment Building Materials





CONTRACT MANUFACTURING

Contract Manufacturing - A situation in which a third party makes products that are packaged under another company's label. Common Micro-Verticals High Tech Electronics Medical Device Consumer Electronics Lighting

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REQUIREMENTS FOR PROJECT MANUFACTURING CUSTOMERS



Engineering / Design

Procurement

Manufacturing

Installation / Commissioning



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Key Functional Requirements for Project Manufacturers

- Accurate costs
 - Materials
 - Labour
 - Design
 - Engineering
 - Commissioning
- Job Costing / Project Costing
- Cost Commitment Reporting
- Project Pegging for Stock Allocation
- Project Co-Mingling for Procurement
- Manufacturing Scheduled by Project

Activities / Dates / Milestones

- And other activities scheduled by manufacturing progress
- Rev Rec based on Manufacturing
 Progress
- Invoicing for Manufactured Good to be driven by Project Milestones
 - No Invoice at point of item shipment

Project Costing Report filtered for two customer projects – Budget Data and Actuals Calculated. Parent also summarised.

Project Costi	ng Report												More		
Filter															
PARENT CLASS															
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Project Manufacturing DO WE HAVE COMPETITION?



TOP COMMON COMPETITORS IN MANUFACTURING

By Volume & Velocity Business Acumatica Microsoft Dynamics infor Business Central • NAV **EPICOR**

By Vertical Niche Focus



NETSUITE MANUFACTURING

- 1 Levels of Manufacturing
- 2 Work Orders and Assemblies
- 3 WIP and Routings
- 4 Advanced Manufacturing

WORK ORDERS AND ASSEMBLIES



- Track BOM
- Create Shop Floor
 Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good
 cost from Components

Work Orders and Assembly

- + WO and Assemblies
- Routing
- Capture Operational Setup and Run Time
- Variable Lead Time
 Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at
 Operational Level
- Calculate Finished Good cost from Components and Operations

Work in Process and Routings

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual
 Operational Setup and
 Due Times as the unknown
- Tablet/Scanner for Real
- Time Work Order Tracking
- Downtime reporting
- In Process Quality

Advanced Manufacturing

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WORK ORDER AND ASSEMBLIES, OPTIMIZE INVENTORY AND IMPROVE PRODUCTIVITY

WORK ORDERS - NetSuite's work order capabilities allow manufacturers to readily plan the build process for production work orders to actively replenish inventory levels of finished goods. Alternatively, you can create special order work orders to build to exact specifications for a particular customer and order

ASSEMBLY MANAGEMENT - NetSuite's assembly management capabilities enable you to more effectively manage component quantities and multi-level assemblies using revision or effectivity dates if necessary.



WHY USE? Building on NetSuite's core strength in inventory and warehouse management, NetSuite allows multi-level assemblies to be built one level at a time or all at once.

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COMMON BUSINESS CHALLENGES

UNDERSTANDING YOUR prospect's CHALLENGES

- Hard to get accurate inventory at the component and assembly levels
- Need a way to track product history for the assemblies being built
- Inventory replenishment is difficult to plan or see usage
- Need some light assembly in the warehouse
- Would like to track work done but don't want to leverage routings.

NETSUIE in action

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PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		100.0% 1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default		
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Assembly/Bill of Materials - NetSi × +

WHL001 All Terrain MB Wheel

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PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD

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All Terrain MB Wheel

100.0% 2

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CUSTOMER	CLASS Sports & Outdoor Goods	DEPARTMENT Production : Finished Goods		
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PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	3	Ea	3	0	0	30	50	100.0% Available Qty		Stock		Johnson Supply	30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	3	Ea	3	0	0	20	40	100.0% Available Qty		Stock		AAK	30/07/2019 8:00 am			History
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	6	6	Ea	6	0	0	6	36	100.0% Available Qty		Work Order	WO0000088		30/07/2019 8:00 am			History
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ASSEMBLY MBK001 All Terrain Mountain Bike	MANUFACTURING ROUTING	BUILDABLE 3	PRODUCTION END DATE 30/07/2019
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ASSEMBLY MBK001 All Terrain Mountain Bike	MANUFACTURING ROUTING	BUILDABLE 0	PRODUCTION END DATE 30/07/2019
LOCATION	WIP	BUILT	AUTO-CALCULATE LAG
MEMO	MARK SUB-ASSEMBLIES PHANTOM	STATUS Built	PLANNER
Classification			
CUSTOMER	CLASS Sports & Outdoor Goods	DEPARTMENT Production : Finished Goods	
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PROJECT			

Items Inspection	<u>Analysis</u> <u>C</u> ommunication	<u>R</u> elated Records <u>S</u> ys	tem Information C <u>u</u> ston	n <u>E</u> FT	Source Transactio	on Case Re	cord <u>T</u> ar	get Transactio	on Case Re	ecord Sa <u>l</u> es Team								
ITEM	DESCRIPTION	BOM QUANTIT	Y QUANTITY UNITS	INVENTOR	Y COMMITTED	USED IN BUILD	BACK	AVAILABLE	ON HAND	COMPONENT YIELD COMMIT	COMMITMENT	ITEM SOURCE	TRANSACTION	PO VENDOR	PLANNED COMPONENT ISSUE DATE	OPERATION	OPTIONS	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	4 Ea		0	4	0	29	46	100.0% Available Qty	5	Stock		Johnson Supply	30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	3 Ea		0	3	0	20	37	100.0% Available Qty	2	Stock		AAK	30/07/2019 8:00 am			History
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	6	6 Ea		0	6	0	б	30	100.0% Available Qty	1	Work Order	WO000088		30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	3 Ea		0	3	0	44	61	100.0% Available Qty	5	Stock		AAK	30/07/2019 8:00 am			History

Back Print BOM

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	Search		Q		Help	Feedback Q - Cathy cadigan NetSuite - Administrator
👌 ★ 🖄 Activities Payments Transactions Lists Reports Ana	alytics Documents Setu	up Customization Fixed Asse	ets Administration & Controls Vendor Pre	payment Support		
ᡖ GL Impact						Return to Assembly Build #ASSYB10
						TOTAL: 5
ACCOUNT AMOUNT (DEBIT) AMO	DUNT (CREDIT) POSTING	MEMO NAME	SUBSIDIARY	DEPARTMENT	PROJECT	LOCATION CUSTOM SCRIPT
12010 Inventory : Inventory in Stock £1,281.45	Yes		Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester
12010 Inventory : Inventory in Stock	£530.00 Yes		Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester
12010 Inventory : Inventory in Stock	£105.00 Yes		Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester
12010 Inventory : Inventory in Stock	£481.45 Yes		Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester
12010 Inventory : Inventory in Stock	£165.00 Yes		Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester


WHAT IT MEANS FOR YOUR PROSPECT

✓ Inventory Visibility

More accurate inventory at the component and assembly levels
Better plan for Inventory by seeing actual usages at all levels of the Bill of Material

✓ Work Order Metrics

Light assembly and product history tracking

More accurate build history

✓ Additional Reporting

- Material shortage reporting
- Work Order Completion Reporting
- Usage tracking





WIP AND ROUTINGS



- Track BOM
- Create Shop Floor
 Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good cost from Components

Work in Process and Routings

- + WO and Assemblies
- Routings
- Capture Operational Setup
 and Run Time
- Variable Lead Time
 Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at
 Operational Level
- Calculate Finished Good cost from Components and Operations

Work in Process and Routings

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual
- Operational Setup and Run Times as they happen
- Tablet/Scanner for Real Time Work Order Tracking
- Downtime reporting
- In Process Quality

Work in Process and Routings

WORK IN PROCESS/ROUTINGS GAIN GREATER CONTROL OVER RESOURCES AND COSTIN

WORK IN PROCESS - Basic definition is the "bucket" of costs that are incurred during the manufacturing process. Optimal production management aims to minimize work in process. Work in process requires storage space, represents bound capital not available for investment and carries an inherent risk of earlier expiration of shelf life of the products. Bottom line it is not yet sellable products.

ROUTINGS - The production routings can be set up to represent every step that a product goes through, the expected set-up and run times, the associated work centers, and the cost templates that should be used. This also facilitates the real-time scheduling process, which can be defaulted to forward or backward and also over-ridden on a case by case basis.

WORK IN PROCESS/ROUTINGS GAIN GREATER CONTROL OVER RESOURCES AND COSTIN

WHY USE? Building on Work Order and Assemblies, WIP and Routings allows the customer to have better visibility in where in the manufacturing process they might be on a work order by work order basis. It also provides for greater visibility into the planned costs vs. actual costs within the Work Order



COMMON BUSINESS CHALLENGES

UNDERSTANDING YOUR prospect's CHALLENGES

Our products take a bit of time to produce and we want to track where it might be in the manufacturing process.

We might have more than one way to manufacturing a product and want to see alternative steps.

Want to be able to track how efficiently we are building/making a product.

Need tighter accounting for our manufacturing process.

NETSUIE in action

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ITEM NAME/NUMBER MBK001		UNITS TYPE Each				ITEM	1 IMAGE	•						
DISPLAY NAME/CODE All Terrain Mountain Bike		STOCK UNITS Each												
SUBITEM OF		PURCHASE UNITS Each												
UPC CODE		SALE UNITS Each												
		BASE UNIT Ea		CRIPTION errain Mountain Bike										
Classification														
SUBSIDIARY Parent Company : United Kingdom		DEPARTMENT Production : Finished Goods				PREF	FERRED LOCATION							
INCLUDE CHILDREN		CLASS Sports & Outdoor Goods LOCATION			NNER									
Scheduling														
SCHEDULING ATTRIBUTE 1		SCHEDULING ATTRIBUTE 2				SCHE	EDULING ATTRIBUTE 3							
RICING UPDATE ITEM CATEGORY		ITEM VALIDATIONS ITEM GROUP												
Manufacturing Purchasing / Inventory Sales / Pricing Acco	ounting <u>I</u> nventory Detail I <u>t</u> e	m360 <u>R</u> elated Records <u>C</u> ommunicatio	n Pr <u>e</u> ferences	System Inform	nation <u>H</u> azi	:mat/Dangerous G	ioods Matri <u>x V</u>	<u>V</u> eb Store Tax_Repo	rting					
PHANTOM			MARK	SUB-ASSEMBLIES PI	HANTOM									
SPECIAL WORK ORDER ITEM			EFFECTIVE Revision (BOM CONTROL Control										
Components · Manufacturing Routings ·														
DISPLAY COMPONENTS ON TRANSACTIONS			✓ USE CO	OMPONENT YIELD										
ITEM	DESCRIPTION	COMPONENT YIELD BOM QUANTITY	ITEM SOURCE	QUANTITY	UNITS	SCHEDULE	EFFECTIVE DATE	OBSOLETE DATE	EFFECTIVE REVISION	OBSOLETE REVISION				
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		100.0% 1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default					
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		100.0% 1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default					
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	100.0% 2	Work Order	2	Ea	S-1 Taxable	01/03/1970		Default					
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		100.0% 1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default					

Manufacturing Routing - Google Chrome		– 0 ×
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Manufacturing Routing		
Save Cancel		
Primary Information		
SUBSIDIARY * United Kingdom TEM MBK001 LOCATION * Manchester	MEMO	
NAME *		

MCR - MBK001

<u>Routing Steps</u> <u>C</u> om	ponent Per Operation Comm	unication <u>W</u> orkflow								
OPERATION SEQUENCE	OPERATION NAME	MANUFACTURING WORK CENTER	MACHINE RESOURCES	LABOR RESOURCES	MANUFACTURING COST TEMPLATE	SETUP TIME (MIN)	RUN RATE (MIN/UNIT)	LAG TYPE	LAG AMOUNT	LAG UNITS
10	Weld	MCR - Welding Station A	1	1	MCR - Welding Station A	30	60			
20	Chain Assembly	MCR - Assembly Cell A	0	1	MCR - Assembly Cell A	30	25 (Quantity	1	Ea
30	Wheel Assembly	MCR - Wheel Assembly	0	1	MCR - Wheel Assembly	30	20			
40	Final Assembly	MCR - Assembly Cell A	0	1	MCR - Assembly Cell A	10	20 (Quantity	1	Ea
50	QC Inspection	MCR - Inspection Zone	0		MCR - Inspection Zone	10	15			
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Work Order Q WO000087 RELEASED Edit Back Create Build Close Print BOM	∔] ▼ Actions -		← → List Search Customise
Primary Information			
ORDER # W00000087	DATE 30/07/2019	QUANTITY 3	SCHEDULING METHOD
SUBSIDIARY United Kingdom	REVISION Default	UNITS Each	PRODUCTION START DATE 30/07/2019
ASSEMBLY MBK001 All Terrain Mountain Bike	MANUFACTURING ROUTING	BUILDABLE 3	PRODUCTION END DATE 30/07/2019
LOCATION	WIP	BUILT	AUTO-CALCULATE LAG
MEMO	MARK SUB-ASSEMBLIES PHANTOM	STATUS Released	PLANNER
Classification			
CUSTOMER	CLASS Sports & Outdoor Goods	DEPARTMENT Production : Finished Goods	
Scheduling			
SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3	SCHEDULE SEQUENCE
PROJECT			

Items Inspection	Analysis <u>C</u> ommunication	<u>Related Records</u>	ystem Information	C <u>u</u> stom	<u>E</u> FT	S <u>o</u> urce Transactio	on Case Re	cord <u>T</u> ar	get Transac	tion Case R	Record Sa <u>l</u> e	s Team								
ITEM	DESCRIPTION	BOM QUAN	TITY QUANTITY	I UNITS (INVENTORY DETAIL	COMMITTED	USED IN BUILD	BACK	AVAILABLE	ON HAND	COMPONENT YIELD	COMMIT	COMMITMENT	ITEM SOURCE	TRANSACTION	PO VENDOR	PLANNED COMPONENT ISSUE DATE	OPERATION	OPTIONS	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	3	Ea		3	0	0	3() 50	100.09	6 Available Qty		Stock		Johnson Supply	30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	3	Ea		3	0	0	20) 40	100.09	6 Available Qty		Stock		AAK	30/07/2019 8:00 am			History
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	6	6	Ea		6	0	0	(5 36	100.09	6 Available Qty		Work Order	WO0000088		30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	3	Ea		3	0	0	44	4 64	100.09	6 Available Qty		Stock		AAK	30/07/2019 8:00 am			History

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Work Order Q WO000087 RELEASED Edit Back Issue Components Enter Completion Primary Information	Enter Completion with Backflush Close Print BOM	Actions +	← → List Search Customise
ORDER # WO000087 CUSTOMER PROJECTX ASSEMBLY MBK001 All Terrain Mountain Bike REVISION Default MARK SUB-ASSEMBLIES PHANTOM WIP	MANUFACTURING ROUTING MCR - MBK001 AUTO-CALCULATE LAG BUILT 0 QUANTITY SCRAPPED 0 QUANTITY 3 UNITS Each DATE 30/07/2019	STATUS Released ✓ FIRMED MEMO SCHEDULING METHOD Backward PRODUCTION START DATE 30/07/2019 PRODUCTION END DATE 30/07/2019	
Classification			
SUBSIDIARY United Kingdom DEPARTMENT Production : Finished Goods	PROJECT Sports & Outdoor Goods	LOCATION Manchester	
SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 3	PLANNER	
SCHEDULING ATTRIBUTE 2	SCHEDULE SEQUENCE		
Items Operations Planned Time Sales Team Communicat	tion <u>R</u> elated Records System Information C <u>u</u> stom <u>W</u> ork Order Analysi:	s <u>E</u> FT I <u>n</u> spection Source_Transaction Case Record <u>T</u> arget Transaction C	Case Record

PRODUCTION COMPONENTS : FRM001 All remain MB Frame 3 0 0 100.0% 3 2 Ea Available of the component of the com	ITEM	OPERATION	COMMITTED	USED IN BUILD	BACK ORDERED	COMPONENT YIELD	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	DESCRIPTION	COMMIT	COMMITMENT CONFIRMED	ORDER PRIORITY	OPTIONS	ITEM SOURCE	TRANSACTION	PLANNED COMPONENT ISSUE DATE	HISTORY
PRODUCTION COMPONENTS : BHB001 MB 3 0 0 100.0% 3 2 Ea Available Qty Available Qty Stock 30/07/2019 9:50 am History 9:50 am WHL001 All Terrain MB Wheel 6 0 0 100.0% 3 6 Ea All Terrain MB Wheel Available Qty Work WO000088 9:50 am 30/07/2019 9:50 am History 9:50 am PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD 3 0 0 100.0% 3 2 2 All Terrain MB Wheel Available Qty Work WO000088 9:50 am 30/07/2019 9:50 am History 9:50 am	PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	0	0	100.09	63	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
WHL001 All Terrain MB Wheel 6 0 0 100.0% 6 6 Ea All Terrain MB Wheel Available Qty Work Qty Work Qty Woold Work 9:50 am Bitsory 9:50 am PRODUCTION COMPONENTS : HDW002 3 0 0 100.0% 3 3 Ea Available Available Qty Available Available Qty Stock 30/07/2019 30/07/2019 9:50 am History 9:50 am	PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	0	0	100.09	63	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
PRODUCTION COMPONENTS : HDW002 3 0 0 100.0% 3 Ea Available Stock 30/07/2019 History MB Hardware Pack STD Qty 9:50 am 9:50 am 9:50 am	WHL001 All Terrain MB Wheel		6	0	0	100.09	6	6	Ea		All Terrain MB Wheel	Available Qty				Work Order	WO000088	30/07/2019 9:50 am	History
	PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	0	0	100.09	b 3	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History

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Work Order Issue Q Save Cancel Reset				List Search Customise More
Primary Information				
REFERENCE # To Be Generated	MANUFACTURING ROUTING MCR - MBK001	CREATED FROM Work Order #WO0000087		
ASSEMBLY MBK001 All Terrain Mountain Bike	MEMO	POSTING PERIOD	•	
DATE * B0/07/2019		FORM * UK MFG MM - Work Order Issue Fr	orm 🔻	
Classification				
SUBSIDIARY United Kingdom	Manchester	PLANNER	•	
		CLASS Sports & Outdoor Goods	•	
		DEPARTMENT Production : Finished Goods	-	
Issue Operation Component				
STARTING OPERATION REVISION Default	ENDING OPERATION			
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	<u>C</u> omponents	Inspection	C <u>o</u> st Analysis	Co <u>m</u> munication	System Information	EFT	So <u>u</u> rce Transaction Case Record	Iarget Transaction Case Record	L
1	COMPONENT				OPERATION			QUANTITY INVENTORY DETAIL	
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l	WHL001							6 🍯	
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										TOTAL: 8
ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	POSTING	MEMO	NAME	SUBSIDIARY	DEPARTMENT	PROJECT	LOCATION	CUSTOM SCRIPT
12010 Inventory : Inventory in Stock		£397.50	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£397.50		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£105.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£105.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£481.45	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£481.45		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£165.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£165.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	

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Work Order WO000087 RELEASED Edit Back Issue Components Enter Completion Primary Information	Enter Completion with Backflush Close Print BOM	•	← → List Search Customise
ORDER # WO000087 CUSTOMER PROJECTX ASSEMBLY MBK001 All Terrain Mountain Bike REVISION Default MARK SUB-ASSEMBLIES PHANTOM WIP	MANUFACTURING ROUTING MCR - MBK001 AUTO-CALCULATE LAG BUILT 0 QUANTITY SCRAPPED 0 QUANTITY 3 UNITS Each DATE 30/07/2019	STATUS Released FIRMED MEMO SCHEDULING METHOD Backward PRODUCTION START DATE 30/07/2019 PRODUCTION END DATE 30/07/2019	
Classification			
SUBSIDIARY United Kingdom DEPARTMENT Production : Finished Goods	PROJECT Sports & Outdoor Goods	LOCATION Manchester	
SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 3	PLANNER	
SCHEDULING ATTRIBUTE 2	SCHEDULE SEQUENCE		
Items Operations Planned Time Sales Team Communic	cation Related Records System Information Custom Work Order Analysis EFT	Inspection Source Transaction Case Record Target Transaction Case R	ecord

ITEM	OPERATION	COMMITTED	USED IN BUILD	BACK	COMPONENT B YIELD C	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	DESCRIPTION	COMMIT	COMMITMENT	ORDER PRIORITY	OPTIONS	ITEM SOURCE	TRANSACTION	PLANNED COMPONENT ISSUE DATE	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	0	0	100.0% 3		3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	0	0	100.0% 3		3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
WHL001 All Terrain MB Wheel		6	0	0	100.0% 6		6	Ea		All Terrain MB Wheel	Available Qty				Work Order	WO000088	30/07/2019 9:50 am	History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	0	0	100.0% 3		3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History

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CUSTOM FORM * UK MFG MM - Work REFERENCE # To Be Generated ASSEMBLY MBK001 All Terrain M MANUFACTURING ROU MCR - MBK001	r Completion Form Mountain Bike			UNITS Each BACKFLU WORK ORDE 3 PROJECTED V	JSH IR QUANTITY YALUE				CREATED FRON Work Order # DATE * 30/07/2019 POSTING PERIC Jul 2019 MEMO	/ WO0000087	▼		
Classification													
United Kingdom				Manchester CLASS Sports & O DEPARTMEN Production	utdoor Goods T : Finished Goods	•							
Operation Completi	on							(
STARTING OPERATION	*	•		ENDING OPE	RATION *	•			COMPLETED Q 3	UANTITY			
Assembly Detail													
QUANTITY TO BUILD					DETAIL				SCRAP QUANTI	ITY			
REVISION Default				PLANNER		•							
Operations In:	spection <u>C</u> ost Analy	ysis Co <u>m</u> munication <u>S</u> yst	em Information <u>E</u> FT	So <u>u</u> rce Transac	tion Case Record	<u>T</u> arget Transacti	on Case Record						B
OPERATION SEQUENCE	OPERATION NAME	MANUFACTURING WORK CENTER	MACHINE RESOURCES	LABOR RESOURCES	INPUT QUANTITY	QUANTITY REMAINING	PREDECESSOR COMPLETED QUANTITY	COMPLETED QUANTITY	RECORD SETUP TIME	MACHINE SETUP TIME (MIN)	LABOR SETUP TIME (MIN)	MACHINE RUN TIME (MIN)	LABOR RUN TIME (MIN)
10	Weld	MCR - Welding Station A	1	1	3	3		3	~	30	30	180	180
20	Chain Assembly	MCR - Assembly Cell A	0	1	3	3	0		~				
30	Wheel Assembly	MCR - Wheel Assembly	0	1	3	3	0		v				
40	Final Assembly	MCR - Assembly Cell A	0	1	3	3	0		~				
50	QC Inspection	MCR - Inspection Zone	0	1	3	3	0		~				

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🕹 ★ 🖀 Activities Payments Transactions Lists Reports /	Analytics Documents	Setup Customizati	on Fixed	Assets Adm	inistration	& Controls Vendor Prepayment S	upport			
b GL Impact								Return to	Nork Order Compl	etion #WCO0000060
										TOTAL: 8
ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	POSTING	MEMO	NAME	SUBSIDIARY	DEPARTMENT	PROJECT	LOCATION	CUSTOM SCRIPT
65015 Staff Costs : Direct Labour		£45.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£45.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
65017 Staff Costs : Indirect Labour		£30.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£30.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
60020 Administration Expenses : Manufacturing Expenses (Machine & Labour)		£45.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£45.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
60020 Administration Expenses : Manufacturing Expenses (Machine & Labour)		£30.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£30.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	

MANUFACTURING TASK SCHEDULER

Expand All Collapse All	Dally We	ekly Monthly	< >	August 10 - 23	, 2014				1 - 5	• < >	Total: 5
Search Work Center	SUN AUG 10	MON AUG 11	TUE AUG 12	WED AUG 13	THU AUG 14	FRI AUG 15	SAT AUG 16	SUN AUG 17	MON AUG 18	TUE AUG 19	WED AUG
Work Center 2											•
Work Order #60: 20 Painting			25.00%								
Work Order #61:10 Sanding		0.00%									
Work Order #61: 20 Painting				0.00%							
Work Order #62: 20 Painting					0.00%						
Work Order #63: 20 Machine Printing				0.00%							
Work Order #64: 20 Machine Printing			0.00%								- 1
Work Order #65: 20 Machine Printing											
Work Center 3											
Work Center 4											-
	4	i		i	1						F
					Task Assigned	Task Co	onflict 📃 No	t Started	Completed	Non-Work	king Day

RESCHEDULING – FORWARD SCHEDULING METHOD

Expand All Collapse All	Daily Wee	kly Monthly	< > A	ugust 10 - 23, 2	014		
Search Work Center	SUN AUG 10	MON AUG 11	TUE AUG 12	WED AUG 13	THU AUG 14	FRI AUG 15	SAT
Work Order #57: 20 Painting							
Work Order #60: 20 Painting			25.00%				
Work Order #61: 10 Sanding		0.00%					
Work Order #61: 20 Painting				0.00%			
Work Order #62: 20 Painting					0.00%	au Aug 14	
Work Order #63: 20 Machine Printing				0.00%	14 14 14	nu Aug 14	
Work Order #64: 10 Cutting				\rightarrow	0.00%		
Work Order #64: 20 Machine Printing			0.00%				
Work Order #65: 20 Machine Printing							

WORK CENTRE REASSIGNMENT

Expand All Collapse All	Daily Wee	kly Monthly	< > A	ugust 10 - 23, 2	014		1 - 5 🔻	
Search Work Center	SUN AUG 10	MON AUG 11	TUE AUG 12	WED AUG 13	THU AUG 14	FRI AUG 15	SAT AUG 16	SUN
Work Order #60: 10 Sanding			50.00%					
Work Order #62: 10 Sanding			0.00%					
Work Order #63: 10 Cutting			0.00%					
Work Order #64: 10 Cutting			1					
Work Order #65: 10 Cutting								
Work Center 2			₩					
Work Order #42: 20 Painting			Var Tue Aug	12				
Work Order #43: 20 Painting			12 Tue Aug	12				
Work Order #44: 20 Machine Printing			0.00%					
Work Order #46: 20 Machine Printing								

WHAT IT MEANS FOR YOUR PROSPECT

✓ Manufacturing Visibility

Ability to track where your product is in the manufacturing process
Ability to see how well we are producing to plan

✓ Work Order Metrics

Labor efficiency
Scrap tracking
Production variances and WIP

✓ Additional Reporting

- Online dispatch List
- In process Work orders
- Late Work Orders...



ADVANCED MANUFACTURING



- Track BOM
- Create Shop Floor
 Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good
 cost from Components

Work in Process and Routings

- + WO and Assemblies
- Routing
- Capture Operational Setup
 and Run Time
- Variable Lead Time
 Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at
 Operational Level
- Calculate Finished Good cost from Components and Operations

Work in Process and Routings

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual Operational Setup and Run Times as they happen
- Tablet/Scanner for Real
 Time Work Order Tracking
- Downtime reporting
- In Process Quality

Advanced Manufacturing

ADVANCED MANUFACTURING STRENGTHS



Capacity Planning

Verifies that there is sufficient resource capacity to meet the scheduling requirements



Finite Scheduling

Ensure that work proceeds at an even and efficient pace through the facility

Shop Floor Execution

Allows for the collection of downtime, production loss and production results

Reporting

1

Shop Floor Information and status in real-time allowing you to make better decisions

COMMON BUSINESS CHALLENGES

UNDERSTANDING YOUR prospect's CHALLENGES

SCHEDULING

Visibility into potential Work Center constraints

Unrealistic production schedules which fail to optimize production capacity

EXECUTION

Shop reporting is done after the fact or ad hoc

Work Center efficiency issues may go unnoticed until too late

REPORTING

Lack of visibility into corporate KPIs around product throughput or resource efficiencies

NETSUIE in action

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Capacity Resource Planning

Calculates cumulative work center load **and** capacity remaining

Capacity Plan	ning Repo	rts					More
Print Report	Display Plan						
Select Report Paramete	ers						
CAPACITY PLAN CE - 1 of 3 MO		•		SELECT REPORT Work Center Utiliz	zation By Period	•	
Work Center Summa	iry						
WORK CENTER	UNITS PLANNED	PLANNED LABOR HOURS	LABOR HOURS AVAILABLE	PLANNED LABOR UTILIZATION %	PLANNED MACHINE HOURS	MACHINE HOURS AVAILABLE	PLANNED MACHINE UTILIZATION %
D-Packaging	305.0	20.3	200.0	10.2	10.2	200.0	5.1
P-Blending	3,250.0	32.5	200.0	16.3	35.0	200.0	17.5
P-Inspection	7,350.0	542.4	200.0	271.2	544.2	200.0	272.1
P-Packaging	7,350.0	0.7	200.0	0.3	36.6	200.0	18.3
D-Hand Assembly	305.0	25.5	200.0	12.8	25.7	200.0	12.8
D-Inspection	305.0	25.5	200.0	12.8	25.5	200.0	12.8
P-Baking	4,100.0	4.1	200.0	2.0	2.5	200.0	1.3
Add X Can	cel + Insert	t Remove					
Print Report	Display Plan						

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	SUITE	Search	Q J	• 🕜 Help 👥 •	Tom Kess Solentim - Adv Mfg - AM Production Manag	er
ب 🟠 🖈 🕒	Activities Shipping Receiving	Inventory Reports Documents Setup Advanced Ma	anufacturing Planning & Scheduling	Support		
eate Rough C	ut Capacity Plan					Mor
efresh	ed Demand Resource Supply	Save The Plan				
acity Plan						
CATION /imborne	• 🖸	PLAN NAME Wimborne - November	PLAN TYP Work Ord	E ers	•	
nning Horizon						
RIZON START /10/2017		TIME FENCE Week	COMMENT	S		
12/2017 lanned Demand Re	esource Supply				2	
roduct Demand •						
ORDER NO	ITEM NO	DESCRIPTION	QUANTI	TY PRODUCTION DATE	PLANNING PERIOD	
RK00001731	Cell VIPS - Small	Cell Seeding		1 6/11/2017	6/11/2017	
RK00001730	Cell VIPS - Medium	Cell Seeding		1 3/11/2017	30/10/2017	
RK00001729	Cell VIPS - Large	Cell Seeding		1 1/11/2017	30/10/2017	
RK00001725	Cell Metric - Small	Cell Metric® Imager		1 1/11/2017	30/10/2017	
RK00001724	Cell Metric - Medium	Cell Metric® Imager		1 1/11/2017	30/10/2017	
	Cell Matric J arga	Cell Metric® Imager		1 30/10/2017	30/10/2017	
RK00001723	Cell Metric - Large					
VRK00001723 VRK00001726	Cell Metric CLD - Large	Cell Metric® CLD Premium with built-in 10 plate loade	r	1 30/10/2017	30/10/2017	

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DRACLE	NETSUITE 🎝	Solentim	Search				Q	, "ħ	🕜 Help 🛒	Tom Kess Solentim - Adv Mfg - Alv	Production Manager
ک 🖈 🕲	Activities Ship	oping Receiving	Inventory Re	eports Documents	Setup Advance	d Manufacturing	Planning	& Scheduling	upport		
reate Rougi	n Cut Capacit	ty Plan					di				More
Refresh	anned Demand	Resource Supply	Save The	e Plan							
pacity Plan											
CATION Vimborne	8	• 12		PLAN NAME Wimborne - November				PLAN TYPE Work Order	s	•	
Inning Horizon											
RIZON START)/10/2017				TIME FENCE Week		-		COMMENTS			
RIZON END 12/2017											
lanned Demand	Resource Supply										8
Resources .											
WORK CENTER	PLANNING PERIOD	STD DAYS	HEAD	LABOR SHIFT HOURS	TOTAL DAII LABO	Y PERIOD L R H	ABOR OURS	MACHINES	MACHINE SHIFT HOURS	TOTAL DAILY MACHINE	PERIOD MACHINE HOURS
Vimborne - Person	30/10/2017	4	5	1	8	8	40	1	8	8	40
Vimborne - Person	6/11/2017	-	5	1	8	8	40	1	8	8	40
Vimborne - Person	13/11/2017	ł	5	1	8	8	40	1	8	8	40
/imborne - Person	20/11/2017		5	1	8	8	40	1	8	8	40
Vimborne - Person	27/11/2017	(5	1	8	8	40	1	8	8	40
Vimborne - Person	30/10/2017	ţ	5	1 7.	5	7.5	37.5	1	7.5	7.5	37.5
Wimborne - Person	6/11/2017	4	5	1 7.	5	7.5	37.5	1	7.5	7.5	37.5

← → C a Oracle Corporation [US] | https://system.netsuite.com/app/site/hosting/scriptlet.nl NetSuite - Custome: A M Tablet C Online Lead Form scriptlet.nl 1/1 C ± 0 Planned Production Summary Plan Name : Wimborne - November Report : Planned Work Center Production Summary Planned Planned Available Planned Planned Machine Planned

Work Center	Period	Planned Units	/ Planned Labor Hours	Available Labor Hours	Planned Labor Utilization	Planned Machine Hours	Machine Hours Available	Planned Machine Utilization
	20/10/2018		nours	Hours	Othization	Hours	Available	Othization
Wimborne - Person A	30/10/2017	4	5.5	40	13.8	7.5	40	18.8
Wimborne - Person B	30/10/2017	12	35.25	37	95.3	41.25	37	111.5
	6/11/2017	4	5.5	37	14.9	7.5	37	20.3
Wimborne - Person C	30/10/2017	8	18.5	20	92.5	22.5	20	112.5
Wimborne - Person D	30/10/2017	4	14	12	116.7	15	12	125.0

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Finite Capacity Scheduling

All critical scheduling information consolidated into one view Color code status, real-time, reschedule, material availability, production results, downtime, quality, charts, etc.

Work O	rder N	lanagement											More
List Work	Orders	View Contents Display	Proc	luction Data Entry									
Planning Ho	orizon												
WORK CEN D-Hand As JOB STATUS All	TER <mark>sembly</mark> 3	▼ ▼		HORIZON STAR 5/1/2016 HORIZON END 6/30/2016	۲T				VIEW FORMAT Detail View		•		
<u>M</u> aster Pl	an <u>W</u> o	rk Calendar											8
Work Or View C	ders• M	Mfg Operations Material Requirement	ents <u>R</u> elated	Work Orders Production Results P	ro <u>d</u> uction Loss <u>E</u> qu	uipment Down Time	<u>Q</u> uality Control	Labor Charges					
SELEC	Г	WORK ORDER	ITEM NO	ITEM DESCRIPTION	PL	ANNING PRIORITY	ORDER START	OP START	DATE DUE	PLANNED QTY	RECORDED QTY	OPEN QTY	▲ % COMPLETE
	•	Work Order #WRK00001513	WRB400S	Activity Wearable Device 400 Black	00 -	Rush Order	5/1/2016	5/1/2016	5/5/2016	1.0	0.0	1.0	0.0
	•	Work Order #WRK00001514	WRB400S	Activity Wearable Device 400 Black	01 -	Priority Override	5/1/2016	5/1/2016	5/5/2016	3.0	0.0	3.0	0.0
	۲	Work Order #WRK00001498	WRB400S	Activity Wearable Device 400 Black	02 -	Standard Priority	5/4/2016	5/4/2016	6/18/2016	1.0	1.0	0.0	100.0
	•	Work Order #WRK00001499	WRB400S	Activity Wearable Device 400 Black	02 -	Standard Priority	5/4/2016	5/4/2016	6/18/2016	3.0	0.0	3.0	0.0
	۲	Work Order #WRK00001500	WRB400S	Activity Wearable Device 400 Black	00 -	Rush Order	5/4/2016	5/4/2016	5/20/2016	3.0	2.0	1.0	66.0
	•	Work Order #WRK00001501	WRB400S	Activity Wearable Device 400 Black	03 -	Build For Stock	5/4/2016	5/4/2016	5/20/2016	2.0	0.0	2.0	0.0

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	olentim	Search				٩		% • Ø •	letp 👥 -	Tom Kess Solentim - Adv M	Mg - AM Production Ma	inager
🕒 ★ 🛣 Activities Shippi	ng Receiving	Inventory Rep	orts Documents	Setup A	dvanced Manufac	turing Planning	& Schedulin	g Support				
ist Work Orders Preview Schedule	Release V	Nork Orders										
play Filters												
ATION	HORIZO	ON START		PLAN	IED ORDERS		SORT BY			SPEC	IFIC WORK ORDER	_
	1/12/2	017		Displa			Planning C	ode				
	+ 2 30/4/2	018		Use [ate Filter		Schedule	Code		•		
rk Order Release Options												
EDULE DATE	SCHEDULE N	NETHOD	CHIL	D WORK OF	DERS	RELEAS	ED TO PRODI	JCTION				
2/2017	Forward Sch	nedule	▼ Do N	Not Release	Child Work Orders	Work	Order Count =	2 Units Planne	d = 2			
elect Work Orders To Release •												
Mark All Unmark All Sort De	emand											
RELEASE SEQUENCE	WORK	ITEM NO	DESCRIPTION		QUANTITY	ROUTING	PLANNED START	STATUS	DELIVERY	PLANNING CODE	SCHEDULE	
•	WRK00001757	Cell Metric - Medium	Cell Metric® Imager		15	Cell Metric - Medium	15/1/2018	Planned Firm		02 - Standard Priority	0202 (SOL-MET- SOL-MED)	
•	WRK00001758	Cell Metric - Medium	Cell Metric® Imager		15	Cell Metric - Medium	5/3/2018	Planned Firm		02 - Standard Priority	0202 (SOL-MET- SOL-MED)	
•	WRK00001760	Cell Metric CLD - Medium	Cell Metric® CLD Pre in 10 plate loader	emium with b	uilt- 1	Cell Metric CLD - Medium	14/12/2017	In Process			0102 (SOL-CLD- SOL-MED)	
	14/01/0004764	Coll Motric CLD	Cell Metric® CLD Pre	mium with h	uilt. 1	Cell Metric CLD	14/12/2017	Closed			0102 (SOL-CLD-	

List Work Orders

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Preview Schedule Release Work Orders

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🛧 🛣 Activities Sh	ipping Receivir	ng Inventory Rep	orts Documents Setup Adv	anced Manufac	turing Planning	& Schedulin	g Support				
Nork Orders Preview Sche	dule Releas	se Work Orders									
/ Filters											
ON	- FZ 1/1	RIZON START	PLANNEE Display	ORDERS		SORT BY	ode.		SPEC	IFIC WORK ORDER	
TION CLASS		RIZON END	RELEASE	D ORDERS		THEN BY					
	+ ☑ 30.	4/2018	Use Dat	e Filter	*	Schedule	Code		-		
rder Release Options											
LE DATE	SCHEDU	LE METHOD Schodulo	CHILD WORK ORDE	RS wild Work Ordors	RELEAS	SED TO PROD	UCTION	d = 0			
Work Orders To Release •											
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t Work Orders To Release • k All Unmark All So ASE SEQUENCE 2	rt Demand WORK ORDER WRK00001	ITEM NO 757 Cell Metric - Medium	DESCRIPTION Cell Metric® Imager	quantity 15	ROUTING Cell Metric - Medium	PLANNED START 15/1/2018	STATUS Planned Firm	DELIVERY DATE	PLANNING CODE 02 - Standard Priority	SCHEDULE CODE 0202 (SOL-MET- SOL-MED)	ORDE
t Work Orders To Release • k All Unmark All So ASE SEQUENCE 2 0 1 0	rt Demand WORK ORDER WRK00001 WRK00001	ITEM NO 757 Cell Metric - Medium 758 Cell Metric - Medium	DESCRIPTION Cell Metric® Imager Cell Metric® Imager	QUANTITY 15 15	ROUTING Cell Metric - Medium Cell Metric - Medium	PLANNED START 15/1/2018 5/3/2018	STATUS Planned Firm Planned Firm	DELIVERY DATE	PLANNING CODE 02 - Standard Priority 02 - Standard Priority	SCHEDULE CODE 0202 (SOL-MET- SOL-MED) 0202 (SOL-MET- SOL-MED)	ORDEF
t Work Orders To Release • k All Unmark All So ASE SEQUENCE 1 0	rt Demand WORK ORDER WRK00001 WRK00001	ITEM NO 757 Cell Metric - Medium 758 Cell Metric - Medium 760 Cell Metric CLD - Medium	DESCRIPTION Cell Metric® Imager Cell Metric® Imager Cell Metric® CLD Premium with buil in 10 plate loader	QUANTITY 15 15 - 1	ROUTING Cell Metric - Medium Cell Metric - Medium Cell Metric CLD - Medium	PLANNED START 15/1/2018 5/3/2018 14/12/2017	STATUS Planned Firm Planned Firm In Process	DELIVERY DATE	PLANNING CODE 02 - Standard Priority 02 - Standard Priority	SCHEDULE CODE 0202 (SOL-MET- SOL-MED) 0202 (SOL-MET- SOL-MED) 0102 (SOL-CLD- SOL-MED)	ORDE

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ڪ 🖈 🙆	Activities Shippir	ng Receiving Inver	tory Reports Documents Setup Adv	anced Manufacturi	ng Planning &	Scheduling	Suppo	ort			
Vork Order N	lanagement										Mor
List Work Orders	View Contents	Edit Work Order	Displays Production Data Entry	•							
lanning Horizon											
VORK CENTER			HORIZON START			VIEW F	ORMAT		1:50		
Wimborne - Person C	•	+ 12	1/12/2017			Detail	View		•		
All	-		30/12/2017								
Work Orders • M View Contents	Mg Operations Materia	al Requirements <u>R</u> ela	ted Work Orders Production Results Pro	duction Loss Equip	pment Down Tim	e <u>Q</u> uality C	ontrol	Labor Charges			
SELECT	WORK ORDER	ITEM NO	ITEM DESCRIPTION	PLANNING PRIORITY	ORDER START	OP START	DATE DUE	PLANNED QTY	RECORDED	OPEN QTY	COMPLETE
•	Work Order #WRK00001758	Cell Metric - Medium	Cell Metric® Imager	02 - Standard Priority	1/12/2017	1/12/2017		15.0	0.0	15.0	0.0
	Work Order #WRK00001760	Cell Metric CLD - Medium	Cell Metric® CLD Premium with built-in 10 plate loader		14/12/2017	14/12/2017		1.0	1.0	0.0	
					and the second second second second			1.0	1.0		100.0
•	Work Order #WRK00001761	Cell Metric CLD - Medium	Cell Metric® CLD Premium with built-in 10 plate loader		14/12/2017	14/12/2017		1.0	1.0	0.0	100.0
	Work Order #WRK00001761 Work Order #WRK00001759	Cell Metric CLD - Medium Cell Metric - Medium	Cell Metric® CLD Premium with built-in 10 plate loader Cell Metric® Imager	00 - Rush Order	14/12/2017 27/11/2017	14/12/2017		15.0	5.0	0.0	100.0 100.0 33.0
	Work Order #WRK00001761 Work Order #WRK00001759	Cell Metric CLD - Medium Cell Metric - Medium	Cell Metric® CLD Premium with built-in 10 plate loader Cell Metric® Imager	00 - Rush Order	14/12/2017 27/11/2017	14/12/2017		15.0	5.0	0.0	100.0 100.0 33.0





Gantt Chart Scheduling

Gantt Chart View (non Interactive!) Color coded to easily track work orders Pop-up views provide detailed information

Production P	lanning Report	S		
Display Report	Go Back			
Planning Horizon				
ELECT CHART Entire Plant - Group By	Work Center	DEPARTMENT	HORIZON START 5/1/2016	WORK ORDER
		WORK CENTER D-Hand Assembly	HORIZON END	SELECT STATUS All Work Orders
Planned Production				
P-Blending			Work Order #WRK00000771	W Work Order #WRK00000826 W rk • Work Order #WRK00000772
P-Packaging			Work Order #WRK00000771	rk P-Inspection: Jun 17 - Jul 15, 2016 Duration: 28 days
P-Inspection	W.,	Work Or	W Work Order #WRK00000770 Work Order #WRK00001307 Work Order #WRK00001307	Work Order #WRK00000772 (00001089 Work Order #WRK00001312
				Work Order #WRK00000771



SHOP FLOOR EXECUTION – Touch Pad Tablet

Active Run in 'Green' Sequenced based on Finite Shop Floor Schedule Easy Menu Items

NETSUITE	N NETSUITE Dr manufacturers								\$
WORK CENTER DAN Big Jars Ln 1	Clear List		START DATE 03/28/2016	END DATE 04/08/2016		;	Select		
)()()								
03/31/2016	DAN 4004	WORK ORDER	17	OPERATION 110	(900	PRODUCED		
04/01/2016	DAN 4004	WRK000007	22	110	(900	402		
03/28/2016	DAN 4004	WRK000007	24	110		1800	770		
03/29/2016	DAN 4004	WRK000007	25	110	{	900	460		
04/04/2016	DAN 4004	WRK000007	27	110	{	900			
04/05/2016	DAN 4004	WRK000007	28	110	2	200			
04/07/2016	DAN 4004	WRK000007	30	110	Ę	500			

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LISA SCHAGUNN - DATA SCANNER

or \$

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Solentim					Work Qu	ieue			II T	\$ €		
WORK CENTER START DATE					E	ND DATE		QUICK SEARCH				
Wimborne - Person C	Clear	List	01/12/2017	7 Select		31/12/2017	Select			Clear		
T PLANNED START	T ITEM			WORK ORUER		▼ ORDERED	T PRODUCED	T PLANNER	Y PRIORITY	STATUS		
1/12/2017 9:00 am	Cell Metric - Medi		ledium WRK00001758		10	15		Stonelake	02 - Standard Priority			
12/12/2017 2:00 pm	Cell Metric - Medium		ium	WRK00001758	30	15		Stonelake	02 - Standard Priority			
4/12/2017 4:30 pm	Cell Met	ric - Med	ium	WRK00001758	20	15		Stonelake	02 - Standard Priority			
1/12/2017 12:00 am	Cell Met	r <mark>ic - Me</mark> d	ium	WRK00001759	30	15	5	Stonelake	00 - Rush Order			
14/12/2017 12:00 am	m Cell Metric CLD - M		Medium	WRK00001760	40	1	1 Stonelake		- None -			
14/12/2017 12:00 am	am Cell Metric CLD - M		Medium	WRK00001760	10	1 1		Stonelake	- None -			
14/12/2017 12:00 am Cell Metric CLD - Medium		Medium	WRK00001760	30	1	1	Stonelake	- None -				
14/12/2017 12:00 am	Cell Met	ric CLD -	Medium	WRK00001760	20	1	1	Stonelake	- None -			




WHAT IT MEANS FOR YOUR PROSPECT

✓ Real Time Information

- Integrated Data Collection
- Near real time visibility of Inventory
- Mobile interface allows for immediate insight into ongoing production activities

✓ Visibility into Critical Metrics

- Insight into Resource capacity prior to schedule
- Alert to inefficient metrics or unexpected downtime
- Create realistic schedule based on capacity

✓ Additional Reporting

- 40+ additional reports/KPI's for your use





ADVANCED MANUFACTURING – (PHASE ONE?)



- Track BOM
- Create Shop Floor
 Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good
 cost from Components

Work Orders and Assembly

- + WO and Assemblies
- Routings
- Capture Operational Setup
 and Run Time
- Variable Lead Time
 Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at
 Operational Level
- Calculate Finished Good cost from Components and Operations

Work in Process and Routings

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual Operational Setup and Run Times as they happen
- Tablet/Scanner for Real Time Work Order Tracking
- Downtime reporting
- In Process Quality

Advanced Manufacturing

ORACLE NETSUITE

Learning Cloud Support



Velcome	
	Global Search
Welcome	Clear Imanufacturing Refine search
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