



Light Assembly for Manufacturers
and Distributors

NetSuite Work Orders and Assemblies



NetSuite can be easily configured to support the needs of manufacturers of all types and sizes, and for many the first step is to implement the Work Orders and Assemblies module. Enabling this feature allows users to define assembly items, build complex multi-level bill of materials, create work orders, record assembly builds, and backflush components with minimal effort.

Key Benefits

- Easy set-up – up and running in days
- Automatic back flushing of components
- Real-time costing
- Ability to manufacture without work orders
- Support lean initiatives
- Review and analyze production plans based on actual production times



Process Flow

Assembly Item

Work Order

Assembly Build

Assembly Item

In NetSuite, an item that is manufactured and consumes other components as part of that process is called an Assembly Item and is easily defined through the New Items menu. Assembly Items can optionally be defined as lot numbered or serialized. If a product requires full traceability from the components being used—where they came from and where the end product went—then selecting one of these options will ensure that traceability is strictly maintained.


Work Order

In NetSuite, creating a Work Order is actually an optional step in the manufacturing process; however, if you require the ability to communicate to production what you want made, when you want it, and the components they need to use, or if you sell a configurable product where there are features and options, then creating a work order is a critical part of the process. In this case, the work order is the starting point of implementing a production control system.

Actual Production Dates are automatically calculated by default for related work order transactions. This enables you to track actual production dates to better assess your production plans, identify problems, optimize production runs and make data-driven decisions.

The screenshot shows the 'New Item' form in Oracle NetSuite. The 'ITEM TYPE' is set to 'Assembly'. Under 'Inventory Item', 'Lot Numbered' and 'Serialized' are both checked. The 'Description' field is empty. The 'Item Group' is set to 'Kit/Package'. The 'Markup' is set to 'Non-inventory Item'. The 'Assembly Build' section is visible, showing 'ASSEMBLY BUILD' and 'ASSEMBLY BUILD' with a 'Save & New' button. The 'Primary Information' section includes 'CUSTOM FORM' (Assembly Build (Demo)), 'REFERENCE #', 'ASSEMBLY #', 'BOM100 BOM100', 'BILL OF MATERIALS', 'BOM100 BOM', 'Revision 1', 'Classification', 'SUBSIDIARY', 'United States', 'DEPARTMENT', 'SDG PROJECT', 'BUILDABLE QUANTITY TO', 'QUANTITY TO BUILD', 'UNITS', 'EACHES', 'PROJECTED VALUE', 'INVENTORY DETAIL', 'DATE', '03/16/2020', 'POSTING PERIOD', 'Mar 2020', 'MEMO', 'CLASS', 'LOCATION', 'San Francisco', 'SDG MFG PROJECT TASK'.

The screenshot shows the 'Work Order' form in Oracle NetSuite. The 'ORDER #' is 'WO621' and the status is 'RELEASED'. The 'CUSTOM FORM' is 'AM Work Order Form (Demo)'. The 'SUBSIDIARY' is 'United States' and the 'LOCATION' is 'San Francisco'. The 'ASSEMBLY' is 'AS200 Assembly for Ultrasound Monitor'. The 'QUANTITY' is '1'. The 'Scheduling Details' section includes 'PRODUCTION START DATE' (03/18/2020), 'PRODUCTION END DATE' (03/18/2020), 'SCHEDULING METHOD' (Backward), 'STATUS' (Released). The 'Classification' section includes 'DATE' (03/16/2020), 'CUSTOMER' (Time Plus Tech), 'PROJECT' (Medical Devices), 'CLASS'.

ORACLE NETSUITE 

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Print Manufacturing Traveler

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SUBSIDIARY

LOCATION

WORK ORDER

ASSEMBLY ITEM

WORK ORDER STATUS

Manufacturing Traveler •

SELECT ORDER NUMBER 101 - 104 of 104

[Mark All](#) [Unmark All](#)

| PRINT | WORK ORDER | ASSEMBLY ITEM | START DATE | END DATE | INPUT QUANTITY | WORK ORDER STATUS |
|-------------------------------------|------------|---------------|------------|------------|----------------|-------------------|
| <input type="checkbox"/> | WO606 | SAF100 | 03/22/2020 | 03/22/2020 | 1 | Released |
| <input type="checkbox"/> | WO607 | SSP100P | 03/23/2020 | 03/23/2020 | 400 | In Process |
| <input type="checkbox"/> | WO608 | SSP100CTP | 03/23/2020 | 03/23/2020 | 20 | In Process |
| <input checked="" type="checkbox"/> | WO621 | ASY200 | 03/18/2020 | 03/18/2020 | 1 | Released |


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Work Order Traveler

The traveler is a document that is printed and handed over to production to communicate the production plan. This document can also be used for them to communicate back how much raw material they actually consumed compared to what you were expecting.

Work Instructions

Instructional files can be added to the assembly item and flagged to print at the same time as the traveler. This offers a quick and easy method to issue additional information to the production team.

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Work Order

WO621 **RELEASED** [Save](#) [Cancel](#) [Actions](#)

Primary Information

ORDER # WO621

CUSTOM FORM * AM Work Order Form (Demo)

SUBSIDIARY United States

LOCATION San Francisco

ASSEMBLY * ASY200 Assembly for Ultrasound Monitor

MARK SUB-ASSEMBLIES PHANTOM

QUANTITY * 1

MEMO

BILL OF MATERIALS REVISION Rev. A

MANUFACTURING ROUTING ASY200

WIP

BILL OF MATERIALS ASY200 Bom

Scheduling Details

PRODUCTION START DATE 03/18/2020

PRODUCTION END DATE 03/18/2020

SCHEDULING METHOD * Backward

STATUS Released

DEPARTMENT Production

Classification

DATE * 03/16/2020

PROJECT

DEPARTMENT Production

Items Operations Planned Time Inspection Analysis **Communication** Related Records System Information Custom Advanced Manufacturing NS WMS EFT Production Data Source Transaction Case Record Target Transaction Case Record

Activities Files • User Notes

ATTACH EXISTING FILES

<Type then tab>

[Attach](#) [New File](#)

| ATTACHED FILES | FOLDER | SIZE (KB) | LAST MODIFIED | DOCUMENT TYPE | REMOVE | EDIT | DOWNLOAD |
|-------------------|------------------------|-----------|--------------------|---------------|--------|------|----------|
| Work Instructions | Solar Attic Fan Images | 14 | 03/16/2020 3:28 pm | Word File | Remove | Edit | download |

[Save](#) [Cancel](#) [Actions](#)

| Items • AM Work Order CoProduct | | | | | | | | | | | | | | | | |
|---|--------------|--------------|----------|-------|------------------|-----------|---------------|--------------|-----------|---------|-----------------|---------------|----------------------|-------------|-----------|------------------------------|
| Add Multiple | | | | | | | | | | | | | | | | |
| ITEM * | DESCRIPTION | BOM QUANTITY | QUANTITY | UNITS | INVENTORY DETAIL | COMMITTED | USED IN BUILD | BACK ORDERED | AVAILABLE | ON HAND | COMPONENT YIELD | COMMIT | COMMITMENT CONFIRMED | ITEM SOURCE | PO VENDOR | PLANNED COMPONENT ISSUE DATE |
| PCB005 PCB Board | PCB Board | | 1 | Ea | | 1 | 0 | 0 | 39 | 56 | | Available Qty | | Stock | | 03/18/2020 3:45 pm |
| MNB001 Monitor Base | Monitor Base | | 1 | Ea | | 1 | 0 | 0 | 39 | 56 | | Available Qty | | Stock | | 03/18/2020 3:45 pm |
| MNC001 Monitor Case | Monitor Case | | 1 | Ea | | 1 | 0 | 0 | 39 | 56 | | Available Qty | | Stock | | 03/18/2020 3:45 pm |
| LCD015 15" LCD Display | 15" LCD | | 1 | Ea | | 1 | 0 | 0 | 39 | 56 | | Available Qty | | Stock | | 03/18/2020 3:45 pm |
| <div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> <div>+</div> </div> <div> <div>✓ Add</div> <div>✗ Cancel</div> <div>📄 Copy Previous</div> <div>👤 Add Child</div> <div>➕ Insert</div> <div>🗑 Remove</div> </div> | | | | | | | | | | | | | | | | |
| <div> <div>Save</div> <div>Cancel</div> <div>⚙ Actions</div> </div> | | | | | | | | | | | | | | | | |

Inventory Commitment

By creating a Work Order, NetSuite automatically commits inventory to production when the work order is created and gives a more accurate view of the current inventory status.

Assembly Build

The Assembly Build transaction is the point at which the components are consumed and the finished good is created—sometimes referred to as “backflushing”. It is important to note that the Assembly Build can be completed either against a work order or directly from the menu if working in a lean or work order-less environment.

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20.1 Mfg Leading Master - Administrator

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Assembly Build

ASSYB167

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Primary Information

CUSTOM FORM *

Assembly Build (Demo)

REFERENCE #

ASSYB167

ASSEMBLY *

BOM100 BOM100

BILL OF MATERIALS

BOM100 Bom

BILL OF MATERIALS REVISION

Revision 1

BUILDABLE QUANTITY

10

QUANTITY TO BUILD *

4

UNITS

Each(1)

PROJECTED VALUE

0.00

INVENTORY DETAIL

DATE *

03/16/2020

POSTING PERIOD

Mar 2020

MEMO