

Manufacturing Order

- Window Introduction
 - Introduction
- Manufacturing order flow chart
 - Manufacturing order flow chart
- Tabs
 - Manufacturing Order
 - Order Parent Product
 - Order Routing
 - Attributes
- Validations & Actions
 - Validations
 - Delete
- Process
 - Order Process
 - Order line process
- Video
 - Manufacturing order video
- Reports
- Form and process
 - Re-generate PO/PR
 - Generate Manufacturing Order from Project
 - Generate Production from Project
 - Generate Rework order
- Shopfloor View

Window Introduction

Introduction

Introduction

Manufacturing Order Window contains the details required for production in shop-floor. Details like (Production Quantity of the finished goods to be manufactured, List of components required and their quantity, List of operations (Process), Resources for example.

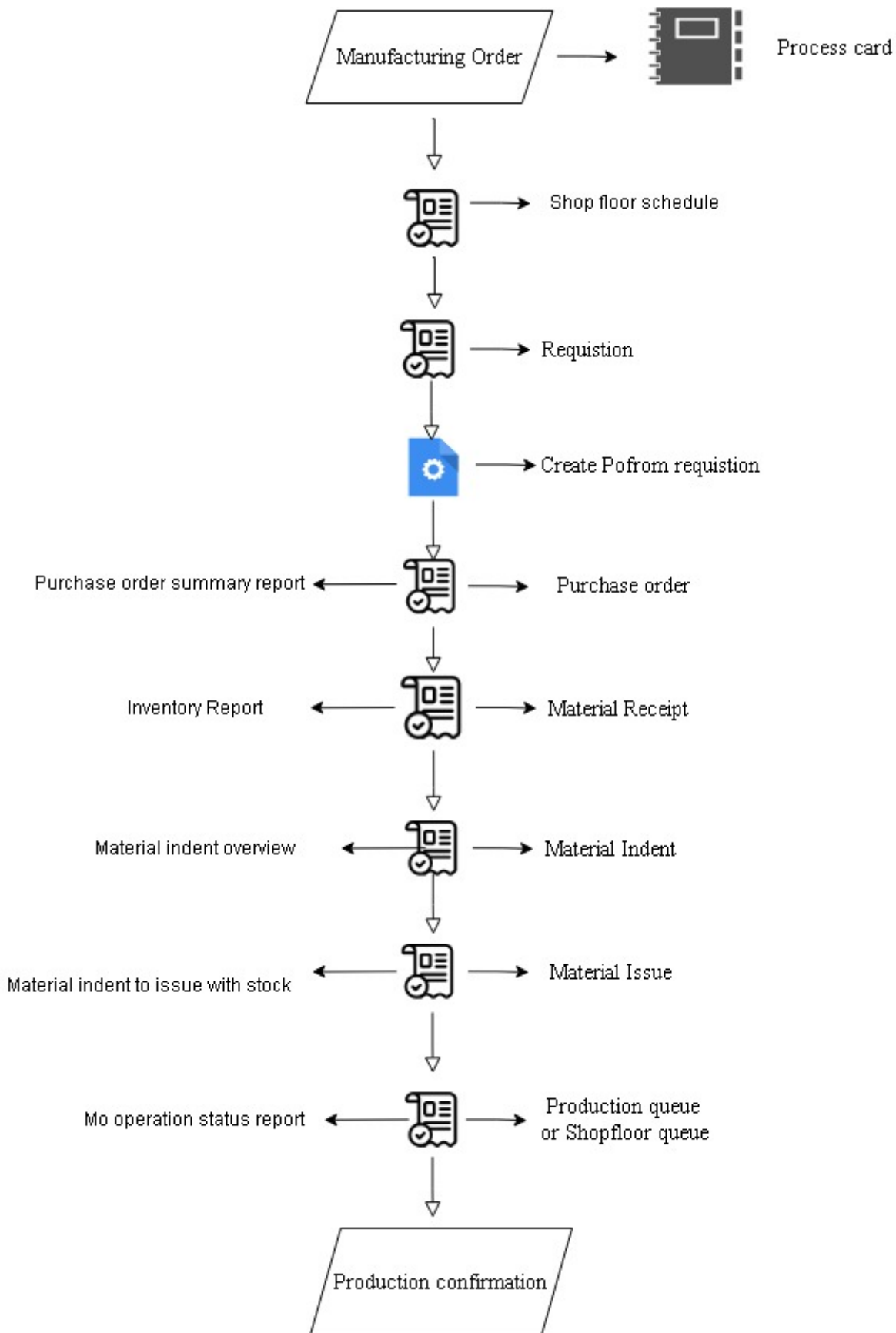
Business Example

A Manufacturing Industries receives a Purchase order from its customer. The Marketing will raise a demand (Sale order). Based on the sales order if the stock is not available in ware house. Then planning person will generate a internal Production order which is said to be Manufacturing order.

Manufacturing order flow chart

Manufacturing order flow chart

Manufacturing order flow chart



Tabs

Tabs

Manufacturing Order

Home (38) Manufacturing Order: 50735-10 Manufacturing Order: 81690 Material Issue and Return: ... Inventory Report

Manufacturing Order [1/1144]

Client: Sandbox Organization: Manufacturing Discrete

Document No: 81690 Parent MO: 50736-10

Target Document Type: Manufacturing Order Account Date:

Description: Generated from Parent Order -> 50736-10 Sales Order Line: 50736_09/07/2024_10_Component-3-Component-3

Product

Resource/Plant: Manufacturing Discrete Plant Warehouse: Discrete-Shopfloor Warehouse

Product: Component-2-Component-2 Attribute Set Instance:

BOM Formula: Component-2_Test component-2_1000201 Workflow: Test component-2

Float Before: 0 Float After: 0

Quantities

Quantity: 10 UOM: Each

No of Batches: 10

Qty Per Batch: 1

Delivered Quantity: 0 Yield %: 100

Qty Reject: 0 Scrap %: 0

Project: Campaign:

Status

Document Status: Completed Document Type: Manufacturing Order

Document Action

Approved Printed

Selected Processed

Activate Windows
Go to Settings to activate Windows.

Critical Fields

- 1) Product- Enter or select the product that needs to be produced.
- 2) Resource Plant- Select a plant name where you're going to process the order.
- 3) Warehouse- Select a warehouse where the final product needs to be stored.
- 4) Workflow- Workflow will be taken automatically from the product planning data window as per

your master configuration.

5) BOM Formula- BOM will be taken automatically from the product planning data window as per your master configuration.

6) Date Ordered- The date of the order will be maintained.

7) Date Promised- This field represents the date that this order needs to be completed.

8) Quantity- Quantity that needs to be manufactured.

9) Planner- Name of the person who is planning the Manufacturing order

10) Priority- This field determines the order's Priority of delivery and production.

11) Description - Description field to be updated for all child orders which is created from parent order.

Critical & one-time setup fields

1) Organization Field- This Field is used to select the organization to which you are going to process the order.

2) Target Document Type- This Field is used to select the type of document that you are going to process.

Non-Critical Fields

1) Project- If this order is processed against a project user can tag the project for tracking.

2) Date Start and Date Finish Schedule- This field represents the date when the production schedule starts and Ends.

3) Approved- This field is used when Hierarchy approval is set for the Order. But in default when

you complete the order system will auto-check this check box.

4)Float Before: This float represents the planned number of workdays between the start date (planned start date) and the production start date (target start date). It provides flexibility to account for any pre-production activities or adjustments

5)Float After: Represents the planned number of workdays between the start date (planned start date) and the production start date (target start date)

6)Delivered Quantity: Once the production confirmation is complete, the quantity data in this field are updated automatically

7)Yield %:Production Yield Percentage refers to the percentage of non-defective items out of all items produced by an entity, and is commonly designated by the proportion of the number of non-defective items against the number of manufactured items.

8)Qty Reject: This field will update automatically if any rejection qty details are updated in the ncr document. Note: You need to give reject Qty in production confirmation create lines.

9)Campaign: This field displayed in master data for selection of the campaign details.

10)Activity: This field details show in master data, so We can select the data

Serial number/Lot number (ASI)

The values of the actual Product Attribute Instances. The product level attributes are defined on the Product level.

Zoom condition's

1) Activity control Report Documents

2) Production Issue & Receipt Documents

3) MRP Documents

4) Quality Inspection Documents

5) Requisition Documents

6)Material Indent

7)FAME2 Upload

8)Production confirmation

9)Sales order

10)Manufacturing order

11)Subcontract Receipt

12.Production Stoppage

Customization

1) Parent MO- This field shows when a sub-manufacturing order is released based on another Manufacturing order. This feature is applicable when the user uses the following System Configuration ().

2) ASI option from the Process button helps to Generate Serial Numbers Automatically.

Tabs

Order Parent Product

The screenshot shows a web browser window with the URL <https://erpdemo.konnect-analytics.com/webui/>. The page title is 'manufacturing order'. The user is logged in as 'dineshraj.s@Konnect Demo.*Konnect Demo Admin'. The breadcrumb navigation is 'Manufacturing Order > Order Parent Product > Components of the Manufacturing Order'. The form fields are as follows:

Line No	110
Description	Copper Pipes
Comment/Help	
<input checked="" type="checkbox"/> Active	Change Notice
Valid from: 12/06/2018 12:00:00 AM	Valid to:
Product: 1000000_Copper Pipes	Attribute Set Instance:
Component Type: Component	
<input type="checkbox"/> Is Qty Percentage	<input type="checkbox"/> Is Critical Component
Quantity: 27	Each
Quantity Assay: 0	Scrap %: 0.0
Issue Method: Issue	Lead Time Offset: 0
Backflush Group:	Forecast: 0

The screenshot shows the 'Delivery' section of the form. The fields are as follows:

Date Delivered:	User/Contact:
Warehouse: Manufacturing Discrete Store	Locator: 1000000
Quantity: 0	Qty Required: 270
Delivered Quantity: 0	On Order Quantity: 270
Qty Reject: 0	Scrap %: 0
Qty Post: 0	
Manufacturing Order BOM Line: 1000000_Copper Pipes	

NOTE: Manufacturing Order->Order Parent Product->Components of the Manufacturing order

Critical Fields

1) Product- Enter the child component

2) Quantity- System will multiply the quantity provided in Workflow Routing and display automatically.If manual entry,Enter the Child quantity required for production

3) Issue Method- There are two methods for issue the components to the Manufacturing order

a) Method Issue: The component are delivered one for one and is necessary indicate the delivered quantity for each component.

b) Method BackFlush: The component are delivered based in BOM, The delivered quantity for each component is based in BOM or Formula and Manufacturing Order Quantity.

4) Warehouse- The Warehouse identifies a unique Warehouse where products are stored or Services are provided.

5) Locator- The Locator indicates where in a Warehouse a product is located.

6) Unit of Measurement

Critical & onetime setup fields

Non-Critical Fields

1) User/Contact- The User identifies a unique user in the system. This could be an internal user or a business partner contact

2) Scrap%- Scrap is useful to determinate a right Standard Cost and management a good supply.

3) Change Notice- This field represents the Bill of material's change Notice Revision.

Serial number/Lot number (ASI)

The values of the actual Product Attribute Instances. The product level attributes are defined on Product level.

Zoom condition's

1) MRP

2) Production Issue and Receipt

Validation

Tabs

Order Routing

KONNECT ANALYTICS manufacturing order

dineshraj.s@Konnect Demo.*Konnect Demo Admin
Feedback | Profile | Preference | Change Role | Log Out

Home (23) | Summary | Manufacturing Order: 80000 ... ✕

Manufacturing Order > Order Routing

Client: Organization:

Manufacturing Order:

Workflow:

Manufacturing Order Activity:

Search Key:

Name:

Description:

Comment/Help:

Active Default

Process Type:

Resource: Qty Per Batch:

Valid from: Valid to:

Publication Status: Priority:

Document No: Version:

Author:

Simulation

Cost: Working Time:

Overlap Units:

Duration Unit:

Queuing Time: Setup Time:

Duration: Duration Limit:

Waiting Time: Yield %:

Moving Time: Activate Windows
Go to Settings to activate Windows.

Konnect ERP - Demo x

Secure | https://erpdemo.konnect-analytics.com/webui/

KONNECT ANALYTICS manufacturing order Q

dinashraj.s@Konnect Demo / Konnect Demo Admin

Feedback | Profile | Preference | Change Role | Log Out

Home (23) Summary Manufacturing Order: 80000 ... x

Manufacturing Order > Order Routing > Order Operations

Workflow: elevator Organization: Manufacturing Discrete

Search Key: 1000000

Sequence: 10

Name: Cutting

Description:

Comment/Help:

Resource: Bandsaw UOM:

Is Milestone

Is Subcontracting

isQC

Valid from: Valid to:

Priority: 0

Join Element: XOR Split Element: XOR

Activate Windows
Go to Settings to activate Windows.

Cost: 0.00 Working Time: 0

Overlap Units: 0

Queuing Time: 0 Setup Time: 0

Duration: 0 Duration Limit: 0

Waiting Time: 0 Moving Time: 0

History

Setup Time Required: 0 Setup Time Real: 0

Duration Required: 0 Duration Real: 139,986

Moving Time Required: 0 Moving Time Real:

Date Start: 12/06/2018 3:19:03 PM Finish Date:

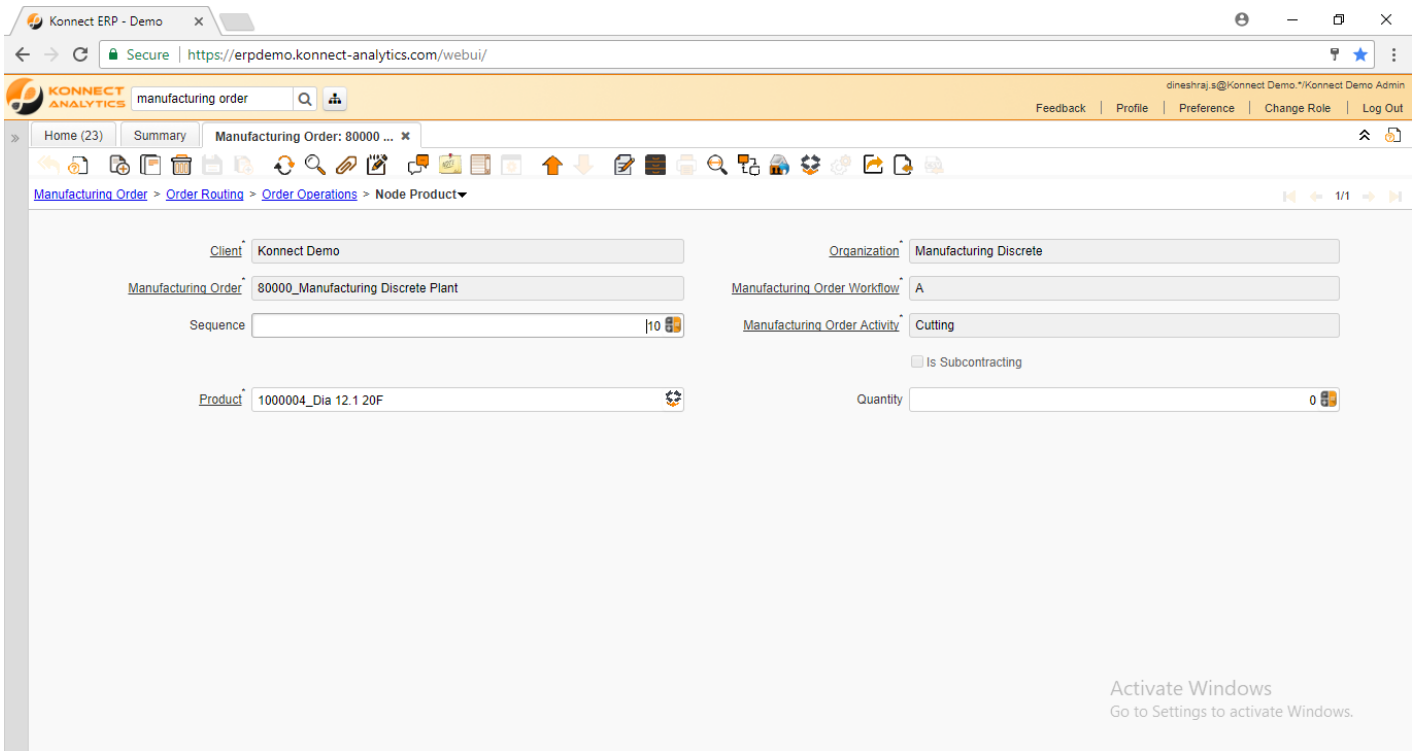
Date Start Schedule: Date Finish Schedule:

Qty Required: 10 Delivered Quantity: 8

Qty Reject: 0 Scrap %: 0

Document Status: In Progress Document Action: Complete

Activate Windows
Go to Settings to activate Windows.



Critical Fields

- 1) Name- Define the name of the Operation. For Example Grinding, turning, Milling etc.
- 2) Resource- The machine in which the operation is going to perform.

Critical & onetime setup fields

- 1) Is QC Check Box- This field will auto update if record is maintained in Manufacturing workflows routing master or You can check or unchecked this check box. If the box is checked Valid test plan needs to be mapped.
- 2) Is Subcontracting- This field will auto update if record is maintained in Manufacturing workflows routing master or You can check or unchecked this check box. If the box is checked a valid vendor needs to be mapped.
- 3) Node Product - This field will auto update if record is maintained in Manufacturing workflows

routing master or You can add a Product and its quantity for subcontracting.

Non-Critical Fields

1) Valid From and Valid To Date

2) Setup Time Required

3) Duration Required

4) Moving Time Required

5) Description

4) Quantity Required- Data will be taken automatically from the manufacturing order qty.user can edit the quantity but not greater the the previous operation movement quantity.

Serial number/Lot number (ASI)

Zoom condition's

1) Activity control Report document for the operation will be displayed

Customization

Tabs

Attributes

The screenshot shows the 'Manufacturing Order' form in the Konnect ERP system. The form is titled 'Manufacturing Order: 80020' and is located in the 'Home (101574)' tab. The form includes the following fields and sections:

- Client:** XYZ Foundation
- Organization:** HQ
- Document No:** 80020
- Parent MO:** (empty)
- Target Document Type:** Manufacturing Order
- Description:** (empty text area)
- Product:** 1000008-Board
- Attribute Set Instance:** (empty)
- Resource/Plant:** Fabrication
- Workflow:** Fabrication
- Order Parent Product:** Components of the Manufacturing Order
- Attributes:** (selected tab)
- Order Routing:** (selected tab)
- Order Operations:** (selected tab)
- Node Pro:** (selected tab)

A table with 1 record is displayed below the form:

Organization	Manufacturing Order	Search Key	Name
HQ	80020_Fabrication	1000008	Board

The screenshot shows the 'Attributes' form in the Konnect ERP system. The form is titled 'Attributes' and is located in the 'Home (101579)' tab. The form includes the following fields and sections:

- Client:** XYZ Foundation
- Organization:** HQ
- Manufacturing Order:** Board
- Date Material Policy:** 01/02/2019
- BOM:** (empty)
- Attribute Set Instance:** Black_Black New_#392
- Movement Quantity:** 1
- Auto Generated:** (checkbox, unchecked)

Critical Fields

- 1) Manufacturing Order BOM - It specifies the Parent Product of the Manufacturing Order
- 2) Date Material Policy - It define the storage date for the Product with ASI
- 3) Attribute Set Instances - This field defines instances Attribute of an product.
- 4) Movement Quantity - This field defines the received Quantity of the product.

Critical & onetime setup fields

Non-Critical Fields

Zoom condition's

Validation

Validations & Actions

Validations

Save

- 1) System will check whether all the Mandatory Fields are filled.
- 2) System will check the bill of material whether the bill of material is valid.
- 3) System will check whether the Manufacturing work flows routing is valid.
- 4) System will generate the document number.

Delete

System will delete the order and its history from the database. This can be done only when the document status is Draft status and In progress Status.

Document action prepare

- 1) System will check the Product, Bill of material, Manufacturing work flows routing, Product Planning data of the manufacturing order and convert the document status to In progress.
- 2) System will check the Period control for the document date whether it is open.

Document action complete

System will complete the document and keep the order ready for processing in production que and change the document status to complete.

Document action void/reverse correct actual

1) Void- system will reverse all the cost transaction data's and change the document status to Void

Document action close

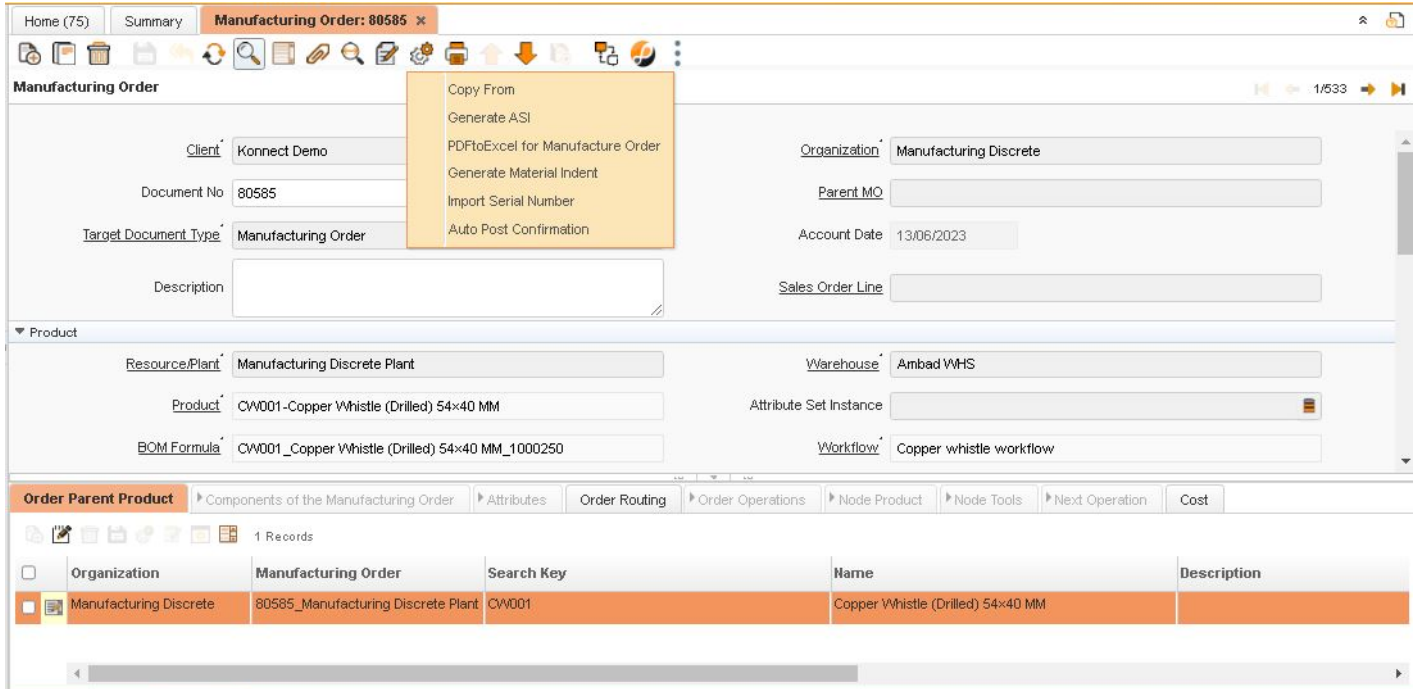
1) system will check whether all the activity for the document is completed and change the Document status to close.

Validations & Actions

Delete

Process

Order Process



1) Generate ASI : Product mapped with Attribute set Instance will be populated

2) Generate Material Indent : Material Indent will be generated based on manufacturing order quantity & against it material will be issued by stores.

3)PDF to excel for manufacture order :This process help as pdf to excel conversion purpose

4)Import serial number: For the purpose of this process, multiple serial numbers are uploaded against multiple fg quantities.

5)Auto post confirmation: Based on this process a manufacturing order against an automatic production confirmation is created.

Process

Order line process

Not applicable

Video

Video

Manufacturing order video

Reports

S.NO	Report type	Report Name	Report Purpose
1	Menu Report	Process card	This report is used to track operations carried out in the resource with quantity.
2	Menu Report	Mo operation status Report	Report used to track how much quantity completed & pending against manufacturing order.
3	Menu Report	Stock requirement list Report	Report used to track on hand stock & shortage quantity based on manufacturing order quantity.
4	Menu Report	Manufacturing order review template	Report used to track how much quantity delivered against order quantity.

Form and process

Re-generate PO/PR

Home (111) Summary **Re-Generate PO/PR** ✕

Generate PO/PR for Sub-Contract Activity Control Report
Re-Generate the PR/PO for a Subcontracting Activity Control Report, The PR/PO that was previously generated from this Activity Control report would be Voided before a new one is created

Manufacturing_Cost Collector

Run as Job

Saved Parameters

Parameters :

1) Manufacturing cost collector : It is used to select manufacturing order document no against which subcontract issue has been generated.

Process Use :

By using this process we can able to re-generate purchase requisition & purchase order which has been raised against manufacturing order.

Generate Manufacturing Order from Project

Home (1104) Summary Purchase Order: 800462 ✕ Generate Manufacturing Orde... ✕

Generate Manufacturing Order from Project Line(s)

Project

Project Phase

Project Line

Resource

Workflow

Warehouse

BOM Formula

Planner

Priority

Date Promised

Run as Job

Saved Parameters

OK Cancel

Parameter :-

1. Project : a series of tasks that must be accomplished in order to achieve a specific result, including phases and phase lines as sequential tasks to complete a project. It is master data.
2. Project Phase : Phase lines are series of duties to complete a project which contains activities, task and task lines.
3. Project Line : Project lines are successive steps to be followed.
4. Resource : It is used to Select the manufacturing work center (previously defined) where you want to execute the operation. For the product costing, the Resource rate is taken from the cost element introduced in the window Product Costing (Refer resource master).
5. Workflow : Workflow to be choosed from the product planning data window as per your master configuration.

6. Warehouse : Select a warehouse where the final product needs to be stored.
 7. BOM Formula : It is used to select bill of material formula created for the product.
 8. Planner : Name of the person who is planning the Manufacturing order
 9. Priority : The Priority indicates the importance of this request.
 10. Date Promised : This field represents the date that this order needs to be completed.
-

Process :-

This Process is used to Generate Manufacturing order from Project

Generate Production from Project

Home (2111) Generate Production from Pr... ✕

Generate Production from Project Line(s)

Project

Project Phase

Project Line

Run as Job

Saved Parameters

Parameters :-

1. Project : a series of tasks that must be accomplished in order to achieve a specific result, including phases and phase lines as sequential tasks to complete a project. It is master data.
 2. Project Phase : Phase lines are series of duties to complete a project which contains activities, task and task lines. The project phase should be selected based on production is required.
 3. Project Line : Project lines are successive steps to be followed. The project lines should be selected based on production is required.
-

Process Use :-

This process is used to Generate production form project.

Generate Rework order

> Home (39) **Generate Rework Order** x

Do you want to start the Process?

NCR ▼

Run as Job

Saved Parameters ▼

Parameters :

1.NCR is used to select the NCR order document

Process Use:

By using this process, we are able to generate the rework manufacturing order

Shopfloor View

Chocolate Cake				
Mixing Machine Running Cake-1000.0/1000 Cake-1000.0/1000 Cake-1000.0/1000 Cake-1000.0/1000 Cake-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-1000.0/1000 SPACER-1.0/1 SPACER-1.0/1	Cream Mixing Machine Running Pending Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-1000.0/1000 SPACER-1.0/1 SPACER-1.0/1	Baking Machine Running Five Rs Layer*-5/5 Paneer Chilly*-20.00/20.00 Pending Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-1000.0/1000	Cooling Machine Running Pending Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-5.0/5 SPACER-1.0/1	Filling Machine Running Pending Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-5.0/5 SPACER-1.0/1
ig Machine Running Pending Cake-1000.0/1000 Cake-1000.0/1000 Cake-1000.0/1000 Cake-1000.0/1000 Cake-1000.0/1000 Cake-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-5.0/5 SPACER-1.0/1	Packing Machine Running Pending Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Chocolate Cake-1000.0/1000 Five Rs Layer*-1000.0/1000 Five Rs Layer*-1000.0/1000 Schezwan Frie*-3.0/3 Schezwan Frie*-5.00/5.00			

Parameters :

- 1) Manufacturing workflow routing : Product details will be displayed from manufacturing workflow routing if shopfloor view is selected.
- 2) View Running orders : It is used to display running orders for specific product with Attribute and resource details.
- 3) View pending orders : It is used to display pending orders yet to be completed in resource.
- 4) Production Que : It is used to display production Que details for concern resource.

Form Use :

By using this form we can able to track running orders & pending orders for specific resource.