

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.

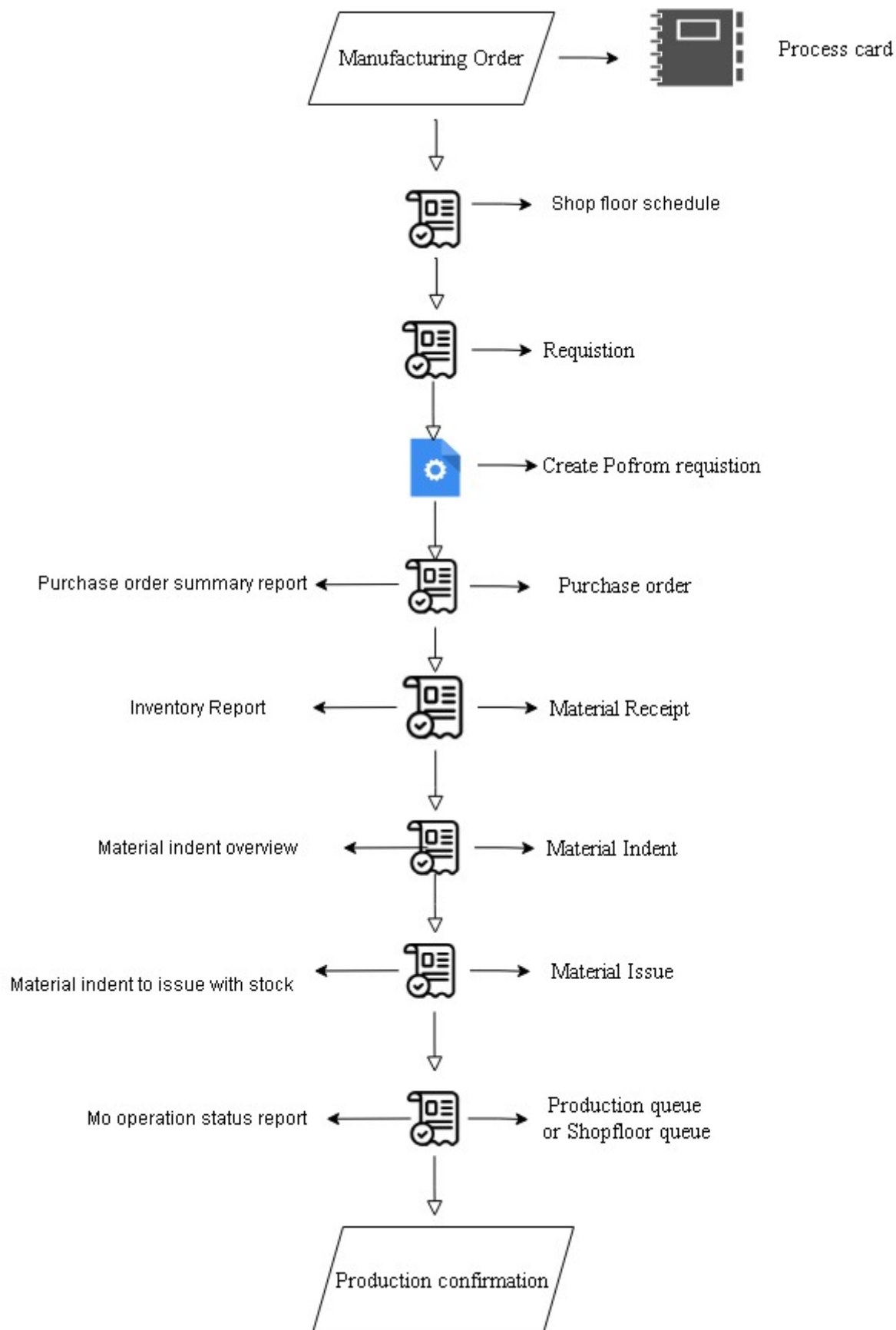
Business Example

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 warehouse. Then planning person will generate an internal Production order which is said to be Manufacturing order.

Manufacturing order flow chart

Manufacturing order flow chart

Manufacturing order flow chart



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.

Tab

Order Parent Product

Konnect ERP - Demo

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

dineshraj.s@Konnect Demo.*Konnect Demo Admin

Feedback | Profile | Preference | Change Role | Log Out

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

Manufacturing Order > Order Parent Product > Components of the Manufacturing Order

Line No * |10

Description Copper Pipes

Comment/Help

☒ Active

Valid from 12/06/2018 12:00:00 AM

Product 1000000_Copper Pipes

Component Type Component

☐ Is Qty Percentage

Quantity 27

Quantity Assay 0

Issue Method Issue

Backflush Group

Change Notice

Valid to

Attribute Set Instance

☐ Is Critical Component

Each

Scrap % 0.0

Lead Time Offset

Forecast

Delivery

Date Delivered

Warehouse Manufacturing Discrete Store

Quantity 0

Delivered Quantity 0

Qty Reject 0

Qty Post 0

Manufacturing Order BOM Line 1000000_Copper Pipes

User/Contact

Locator 1000000

Qty Required 270

On Order Quantity 270

Scrap % 0

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 ERP - Demo

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

dineshraj.s@Konnect Demo.*Konnect Demo Admin

Feedback | Profile | Preference | Change Role | Log Out

manufacturing order

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

Manufacturing Order > Order Routing

Client

Konnect Demo

Organization

Manufacturing Discrete

Manufacturing Order

80000_Manufacturing Discrete Plant

Workflow

elevator

Manufacturing Order Activity

Cutting

Search Key

1000001

Name

A

Description

Comment/Help

☒ Active

☐ Default

Process Type

Resource

Qty Per Batch

1

Valid from

Valid to

Publication Status

Under Revision

Document No

1000001

Author

harishprabu.g

Priority

0

Version

0

Simulation

Cost

0.00

Working Time

0

Overlap Units

Duration Unit

Minute

Queuing Time

0

Setup Time

0

Duration

0

Duration Limit

0

Yield %

100

Waiting Time

0

Moving Time

Activate Windows
Go to Settings to activate Windows.

Konnect ERP - Demo

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 ...

Manufacturing Order > Order Routing > Order Operations

1/2

Workflow

elevator

Organization

Manufacturing Discrete

Search Key

1000000

Sequence

10

Name

Cutting

Description

Comment/Help

Resource

Bandsaw

UOM

Is Milestone

Is Subcontracting

Is QC

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

Duration Required

0

Moving Time Required

Date Start

12/06/2018

3:19:03 PM

Date Start Schedule

Qty Required

10

Qty Reject

0

Document Status

In Progress

Setup Time Real

0

Duration Real

139,986

Moving Time Real

Finish Date

Date Finish Schedule

Delivered Quantity

8

Scrap %

0

Document Action

Complete

Activate Windows

Go to Settings to activate Windows.

The screenshot displays the Konnect ERP - Demo web application interface. The browser address bar shows the URL: <https://erpdemo.konnect-analytics.com/webui/>. The application header includes the Konnect Analytics logo, a search bar with the text "manufacturing order", and user information: "dineshraj.s@Konnect Demo.*Konnect Demo Admin". Navigation links for "Feedback", "Profile", "Preference", "Change Role", and "Log Out" are present.

The main content area shows the "Manufacturing Order" form with the following fields:

- Client:** Konnect Demo
- Organization:** Manufacturing Discrete
- Manufacturing Order:** 80000_Manufacturing Discrete Plant
- Manufacturing Order Workflow:** A
- Sequence:** [Input field with a value of 10 and a dropdown arrow]
- Manufacturing Order Activity:** Cutting
- Product:** 1000004_Dia 12.1 20F
- Is Subcontracting:** ☐
- Quantity:** [Input field with a value of 0 and a dropdown arrow]

At the bottom right, there is a watermark that says "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

manufacturing order

Dinesh pravatha@XYZ Foundation.* / XYZ Foundation Admin

Feedback
 Profile
 Preference
 Change Role
 Log Out

Activities

Notice : 101553
 Request : 2
 Workflow Activities : 0
 Unprocessed Document

Favourites

(Drag and drop menu item here)

Recent Items

Manufacturing Order: 80020
 KonnectAction Configuration: 1000010 Payment Term Notification
 Payment Term: 1000003 10 days
 Purchase Order: 800651
 KonnectAction Configuration: 1000001

Home (101574)
 Manufacturing Order: 80020

Copy From
 Generate ASI

Manufacturing Order
 Data requierred

Client* XYZ Foundation
 Organization* HQ
 Document No 80020
 Parent MO
 Target Document Type* Manufacturing Order
 Description

Product
 Product* 1000008-Board
 Attribute Set Instance
 Resource/Plant* Fabrication
 Workflow* Fabrication

Order Parent Product
 Components of the Manufacturing Order
 Attributes
 Order Routing
 Order Operations
 Node Pro

1 Records

	Organization	Manufacturing Order	Search Key	Name
<input checked="" type="checkbox"/>	HQ	80020_Fabrication	1000008	Board

manufacturing order

Dinesh pravatha@XYZ Foundation.* / XYZ Foundation Admin

Feedback
 Profile
 Preference
 Change Role
 Log Out

Activities

Notice : 101558
 Request : 2
 Workflow Activities : 0
 Unprocessed Document

Favourites

(Drag and drop menu item here)

Recent Items

Manufacturing Order: 80020
 KonnectAction Configuration: 1000010 Payment Term Notification
 Payment Term: 1000003 10 days

Home (101579)
 Manufacturing Order: 80020 ...

1/25

Manufacturing Order > Order Parent Product > Attributes

Client* XYZ Foundation
 Organization* HQ
 Manufacturing Order Board
 Date Material Policy 01/02/2019
 BOM
 Attribute Set Instance Black_Black New_#392
 Movement Quantity* 1
 ☐ Auto Generated

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 queue 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.

Delete

Process

Order Process

Home (75) Summary **Manufacturing Order: 80585** x

Manufacturing Order 1/533

Client: Konnect Demo
 Document No: 80585
 Target Document Type: Manufacturing Order
 Description:

Organization: Manufacturing Discrete
 Parent MO:
 Account Date: 13/06/2023
 Sales Order Line:

Product

Resource/Plant: Manufacturing Discrete Plant
 Warehouse: Ambad WHS
 Product: CW001-Copper Whistle (Drilled) 54x40 MM
 Attribute Set Instance:
 BOM Formula: CW001_Copper Whistle (Drilled) 54x40 MM_1000250
 Workflow: Copper whistle workflow

Order Parent Product Components of the Manufacturing Order Attributes Order Routing Order Operations Node Product Node Tools Next Operation Cost

1 Records

Organization	Manufacturing Order	Search Key	Name	Description
Manufacturing Discrete	80585_Manufacturing Discrete Plant	CW001	Copper Whistle (Drilled) 54x40 MM	

- 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

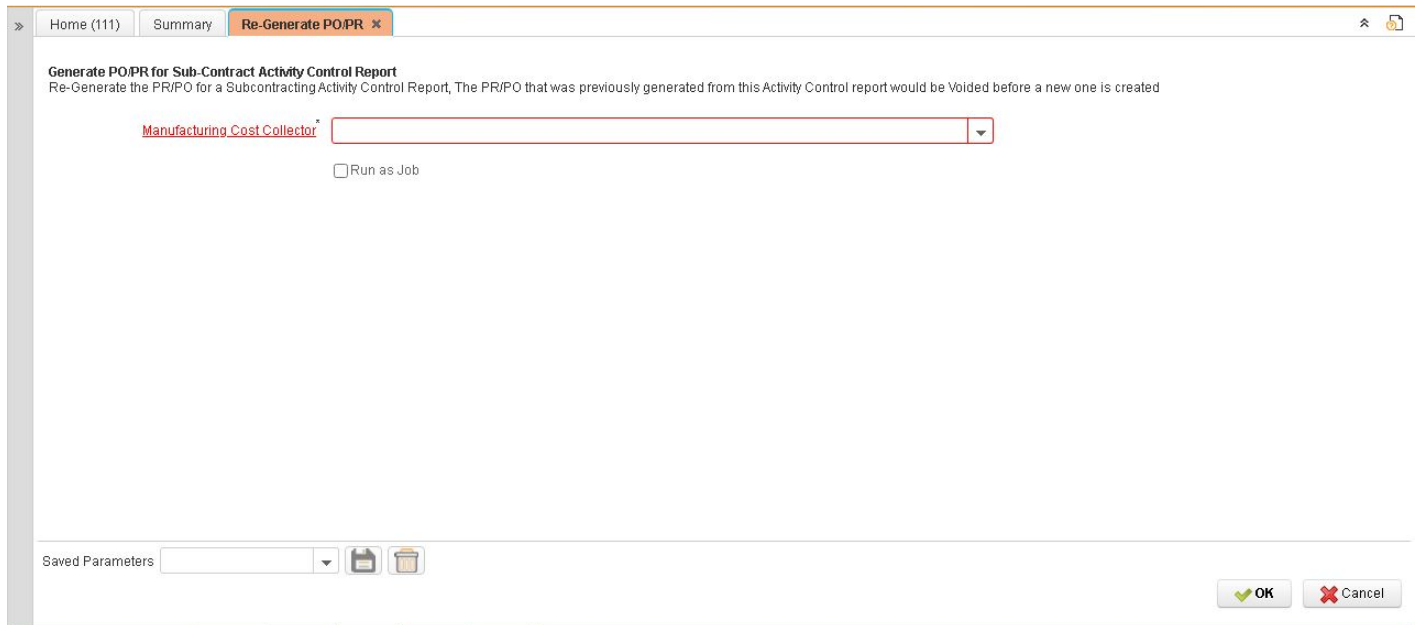
Manufacturing order video

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



The screenshot shows a web application interface with a top navigation bar containing tabs: 'Home (111)', 'Summary', and 'Re-Generate PO/PR' (which is highlighted). Below the navigation bar, the main content area has a title 'Generate PO/PR for Sub-Contract Activity Control Report' and a descriptive text: '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'. A form field labeled 'Manufacturing Cost Collector' is present, followed by a checkbox labeled 'Run as Job'. At the bottom of the form, there is a 'Saved Parameters' section with a dropdown menu and two icons (a folder and a document). On the far right, there are 'OK' and 'Cancel' buttons.

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.

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

The screenshot shows a software window titled 'Home (2111)' with a sub-tab 'Generate Production from Pr...'. The main area is titled 'Generate Production from Project Line(s)'. It contains three dropdown menus: 'Project' (highlighted with a red border), 'Project Phase', and 'Project Line'. Below these is a checkbox labeled 'Run as Job'. At the bottom left, there is a 'Saved Parameters' section with a dropdown menu and two icons (a floppy disk and a trash can). At the bottom right, there are 'OK' and 'Cancel' buttons.

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 ▼

📁

🗑️

✓ OK

✗ Cancel

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

[illegible]

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.