

Changes to Routing UI

- Landing Page no changes
- When Part Selected, Open New Page with List of Routings available - Page 1
- When Routing Selected open Routing Steps List in Page 2
- When Routing Step No is selected in Page 2 show details in Page 3
- When page is closed using "x" take control back to previous page

For Assembly Make from cell is kept blank
3 Dot

- View
- Edit
- Rename Routing
- Set as Preferred Routing
- Change Make From
- Create Alternate Routing from this Routing
- Change Status
- Delete

If In Current Prodn = Y then status change / delete not allowed
Delete will be visible only to Admin. Delete will be done after confirmation

Page 1

Routing List for Part No / Desc xxxx



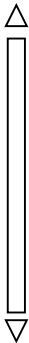
Pref	Routing Name	Make from	No of Oprns	Mandatory Docs Avl	Status	Update Date	In Current Prodn	
y					Active		y	⋮
n					Inactive		n	



Create New Alternate Routing

Routing Performance Comparison

Pref	Routing Name	# Inhouse Oprns	# Sub Con Oprns	Avg Inhouse Cycle Time (min)	# Oprns > Avg Cycle Time (min)	Total Inhouse setup Time (min)	Max Total Setup Time (min)	Batch Size Manf Time (Hrs) *



Batch Size

250

Calculate Batch Manf Time.

The above grid is view only
Batch size default = 250
Batch size is not stored in any table. It is for local representation

Last column allows User to see how many hours it would take to manufacture Batch size to allow quick performance comparison between different Routings

Batch Size Manf Time = Total of ((Batch size x Cycle time)/No of Machines running simultaneously + Setup Time) for each Routing Step.
Same logic to be used for subcon batch size time calculation

Popup for Set as Preferred Routing

X


Make Routing Name xxx as Preferred Routing ☐

Save

Popup for Change Make From

X

Current Make From Part

New Make From Part 

Save

Popup for Rename Routing

X

Current Routing Name

New Routing Name


Save

Routing Name to be checked to make sure it is unique - case insensitive

Popup for Change Status

X

Current Routing Status

New Routing Status 

Reason for Status Change

Save

Routing Name to be checked to make sure it is unique - case insensitive

Details of Routing xxxxx for Part No / Desc xxxx made from Part No / Desc - Company xxx X

	Oprn No	Routing Step Description	Location	No of M/cs	Cycle Time (Min)	Setup Time (Min)	Mandatory Docs Avl	Update Date	In Current Prodn	
=	y								y	⋮
=	n								n	
=										



For Assembly Make information is not included in the Heading 3 Dot

- View
- Edit
- Delete

Edit / Delete allowed only if for all Oprn No - In Current Prodn = N

= Slider to change sequence

Add New Step

Shesha : PI use a gird where the individual rows can be moved up or down (other than header)

Shankar we need to have the ability to show the visual sequence of the Routing steps
Internal Sequence No maintained in the Routing Table will be the same as what is displayed
If user moves the individual rows to change sequence, the same should reflect in the sequence nos for the Oprn Nos in the table

Responsibility of updating the Opr No to reflect the change in sequence is with the User
PI see if any simple interlock can be

Details of Oprn No xxx of Routing xxxxx for Part No / Desc xxxx made from Part No / Desc - Company xxx

X

Step Number *

Step Description *

Operation *

Select

Step Location *

Select

Save

Machine	Floor to Floor time	Status	
Plant Shop 1 VMC 1	15:55:44	Approved	
Plant Shop 1 VMC 2	15:55:44		
Plant Shop 1 VMC 1	15:55:44		
Plant Shop 1 VMC 1	15:55:44		
Plant Shop 1 VMC 1	15:55:44	Not Started	

No of Machines that can run this operation simultaneously

Add Machine

This Routing step Sequencing with respect to Next Routing Step

Sequential : Next Routing step starts only after all parts of this routing step are completed

Parallel : Next Routing step can start while this routing step is in progress

Line : Current Routing Step Machine feeds 1 to 1 to the next Routing Step Machine

Associate BOM Parts Assembled / Used in this step

Retain Routing Step Data entry screen same as before
Below this the Reference Documents for Routing Grid will be shown - continuation of same page

Associate BOM Parts Assembled in this Step Button to be made visible only for Part Type = Assembly
This will open new popup

Add Machine will open in the popup ... same as before

Reference Documents for Routing

Replace Document Accordian with this content

Document Type	Mandatory	Info / Comment	Uploaded by	Uploaded on	View	Down load	
	y						

3 Dots
Upload
Edit
Delete

Upload Other Related Documents

When Upload button is pressed the popup below is opened.
Document Type = Others

At time of first entry

- Document Upload is allowed only after above Information is saved
- All Document types associated with the Operation will shown in the rows
- 3 Dots will display upload only
- Upload other related documents button will be visible / will allow documents other than in the list to be uploaded

After First Entry

- For Docuement Upload Mandatory = Y ... 3 dots will have only Edit (no delete)
- For Document Upload Mandatory = N 3 Dots will have Edit & Delete
- Upload other related documents button will be visible / will allow documents other than in the list to be uploaded

View will show Document Viewer in popup ... Download will open file explorer popup

Upload Document

X

Document Type

View

Allowed File Extn.

View

Info / Comment

Enter Info / Comment

Upload *

Show uploaded File Name

Save

- Document Type is pre filled by the Upload, Edit or Upload Other Related Documents
- File Extensions allowed are shown as concatanated string in the view field
- Info Comment is mandatory for Document Type = Others
- For Document Type = Others there is no check on the File Extension
- Upload function should check if uploaded file matches allowed extension (for other than "Others"). If not warning message to be shown - Uploaded file does not match allowed file extension. PI check and upload
- Upload will show file only to indicate the file selected
- Save will be executed only when above conditions met
- On saving, Reference Documents for Part Grid is updated with the fields
- All other fields of Docu_List table are to be updated with available information

Popup for Add Machine Data Entry

Add Machine

Part No : xxxxxxxxxxxx

Description : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Company : Leyland

Routing : XXXXXXXX

Routing Step : XXXXXXXXXX

X

Select Machine

Enter Machine Details for :Machine Name : VMC-1Plant: Plant 1Shop : Shop 1

Setup Time *

e.g HH:MM:SS

1st Piece Processing time *

e.g HH:MM:SS

Floor to Floor Time *

e.g HH:MM:SS

No of parts per loading *

1

i

Save

Reference Documents for Machine

Replace Document Accordian with this content

Document Type	Mandatory	Info / Comment	Uploaded by	Uploaded on	View	Down load	
	y						

3 Dots
Upload
Edit
Delete

Logic same as above

Upload Other Related Documents

Shesha : PI adjust the data entry fields for width to make it look more proportional

Popup for Associate BOM Parts Assembled / Used in this step

Parts Assembled in Oprn No xxx of Routing xxxxx for Part No / Desc xxxx made from Part No / Desc - Company xxx
 X

Select parts for Assembly from BOM

	Part NO	Part Description	BOM Qty	Bal Qty for Assembly
<input type="radio"/>	N2219c-1-1	Turbine	5000	5000
<input type="radio"/>	Part-2	Lorem Ipsum is simply dummy text of the printing and typesetting industry.	5000	5000
<input type="radio"/>	Part-3	Lorem Ipsum is simply dummy text of the printing and typesetting industry.	5000	10000
<input type="radio"/>	Part-4	Lorem Ipsum is simply dummy text of the printing and typesetting industry.	5000	10000

Select

Part No

N2219c-1-1

Part Desc

Lorem Ipsum is simply dummy text of the printing and

Qty for Assy

Qty

Add to List

List of parts Assembled in Current Assy Step

Part NO	Part Description	Qty used	
N2219c-1-1	Turbine	5000	⋮
N2219c-1-1	Lorem Ipsum is simply dummy text of the printing and typesetting industry.	5000	⋮
N2219c-1-1	Lorem Ipsum is simply dummy text of the printing and typesetting industry.	5000	⋮
N2219c-1-1	Lorem Ipsum is simply dummy text of the printing and typesetting industry.	5000	⋮
N2219c-1-1	Lorem Ipsum is simply dummy text of the printing and typesetting industry.	5000	⋮