Inventrax-FalconSFT-Configuration

Ver 1.0

Operational Manual

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1.1. Workstation
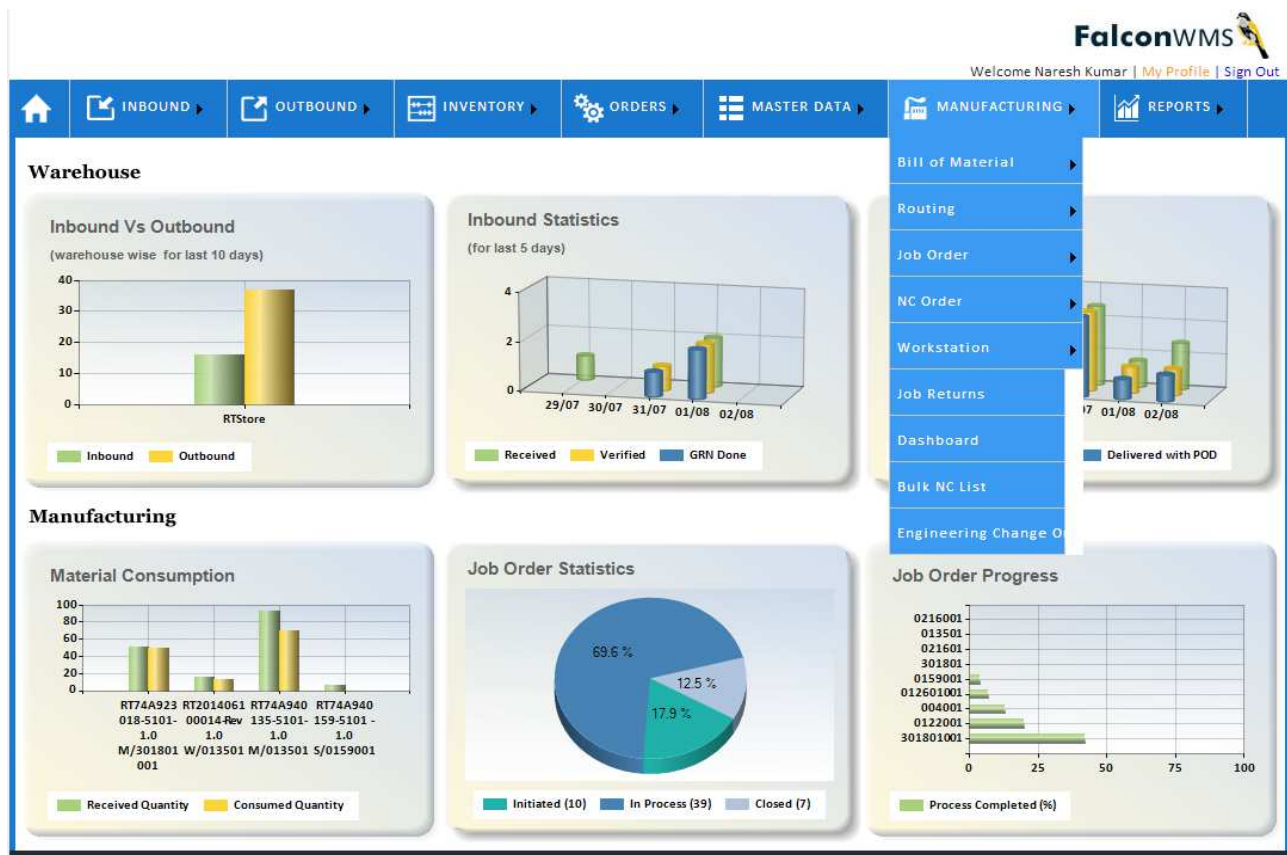
1.1.1. Workstation Type List

Link: Menu >> Manufacturing >> Workstation >> Workstation Type List

System displays workstation type list with Workstation Type, Workstation type code, Company and Description. Workstation Type List provides Search, Edit, Delete and Export to Excel functions based on the user role.

Functionality

i.   The WS Type details can be searched with 'Worktation Type'
ii. The 'Edit' function allows to modify the WS Type details
iii. Only the authorized users can delete the WS Type
iv. The 'Export to Excel' function allows to download a file that contains WS Type details

Bill of Material | Routing | Job Order | NC Order | Workstation | Job Returns | Dashboard

Search Workstation Type...   **Search ▸**

Total Items [9]

Workstation Type	WS Type Code	Company	Description	☐ Delete	
Wire Marking	WM	Rossell Techsys		☐	Edit ▸
Kitting	KIT	Rossell Techsys		☐	Edit ▸
Sleeve Marking	SM	Rossell Techsys		☐	Edit ▸
Fabrication	FB	Rossell Techsys		☐	Edit ▸
Braiding Machine	BM	Rossell Techsys		☐	Edit ▸
Potting Machine	PM	Rossell Techsys		☐	Edit ▸
Packing QC	SLMP	Rossell Techsys		☐	Edit ▸
Packing	pck	Rossell Techsys		☐	Edit ▸
PanStock	PS	Rossell Techsys		☐	Edit ▸
				Delete ▸	

1.1.2. New Workstation Type

Link: Menu >> Manufacturing >> Workstation >> New Workstation Type

This feature allows to create a new workstation type with WS Type code.

The mandatory fields marked in red asterisk are mandatory.

Bill of Material | Routing | Job Order | NC Order | Workstation | Job Returns | Dashboard

Workstation Type List ▸

Workstation Type :
Kitting

WS Type Code :
KIT

Company :
Rossell Techsys

Description :

Cancel   Update

Business Rules:

- Composition of WS Type and Code must be 'Unique'
- Unable to 'Edit/Delete' WS Type details, as WS Type is configured in Workstation

1.1.3. Workstation List

Link: Menu >> Manufacturing >> Workstation >> Workstation List

System displays workstation list with Workstation, Workstation Ref.# and Workstation Type. Workstation List provides Search, Edit, Delete and Export to Excel functions based on the user role.
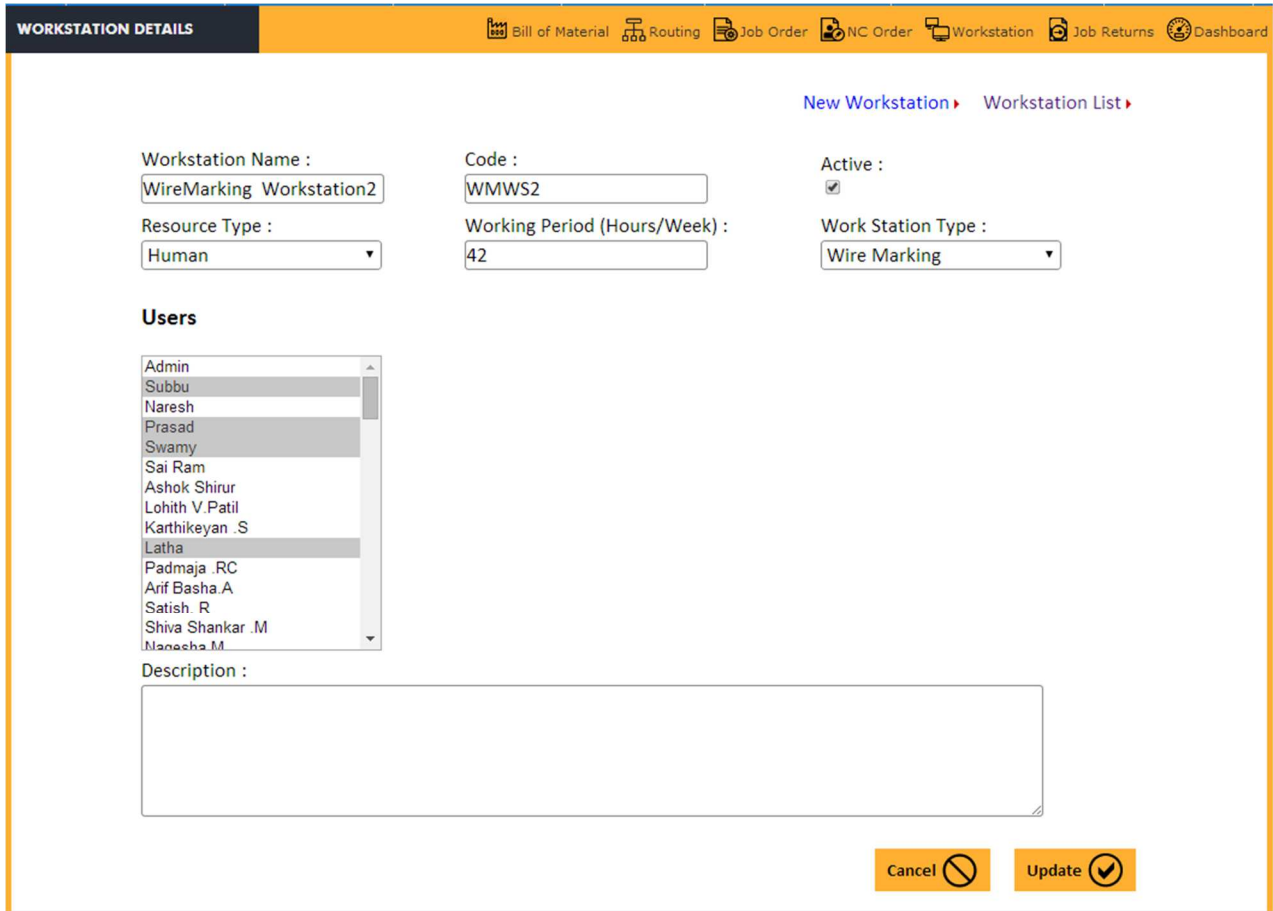
Functionality

i.   System filters the workstation by selecting the workstation type

ii.   The workstation details can be searched with workstation

iii. The 'Edit' function in Workstation List allows to modify the workstation details

iv.   Only the authorized users can delete the WS

v.   The 'Export to Excel' function allows to download a file that contains workstation details

WORKSTATION LIST		📟 Bill of Material 🖧 Routing 📇 Job Order 📇 NC Order 🖳 Workstation 📇 Job Returns ⊘ Dashboard		
Workstation Type : ALL ▾		Search Workstation... ▾	Search ▸ 📉	
Total Items [16]				
Workstation	**Workstation Ref.#**	**Workstation Type**	☐ **Delete**	
INVENTRAX23	KW1	Kitting	☐	Edit ▸
INVENTRAX21213	KW2	Kitting	☐	Edit ▸
INVENTRAX21	WMWS1	Wire Marking	☐	Edit ▸
WireMarking Workstation2	WMWS2	Wire Marking	☐	Edit ▸
INVENTRAX8	SMWS1	Sleeve Marking	☐	Edit ▸
INVENTRAX2	PWS1	Fabrication	☐	Edit ▸
Production Work Station2	PWS2	Fabrication	☐	Edit ▸
Production Work Station3	PWS3	Fabrication	☐	Edit ▸
Production Work Station4	PWS4	Fabrication	☐	Edit ▸
BraidingWorkStation1	BWS1	Braiding Machine	☐	Edit ▸
BraidingWorkStation2	BWS2	Braiding Machine	☐	Edit ▸
INVENTRAX24	POWS1	Potting Machine	☐	Edit ▸
PottingWorkStation2	POWS2	Potting Machine	☐	Edit ▸
WorkCenter1	CUT001	Kitting	☐	Edit ▸
Packing9	KST1	Kitting	☐	Edit ▸
INVENTRAX20	PNWS1	PanStock	☐	Edit ▸
			Delete ▸	

1.1.4. New Workstation

This feature allows the user to request a new workstation. The mandatory fields marked in red asterisk are mandatory.

Business Rules:

- Multiple workstations can be mapped to a workstation type
- Multiple users can have access to a workstation
- Workstation name must be unique
- Composition of Workstation name and WS type must be 'Unique'
- Unable to update the is active status as production process is started

1.2. Bill of Material (BOM)

To create a BOM, components should be configured in Item Master and performed GoodsIN

1.2.1. Bill of Material List (BOM List)
Link: Menu >> Manufacturing >> Bill of Material >> Bill of Material List

System displays bill of material list with BOM Ref.#, BOM Type, UoM/Qty and Product Name. BOM List provides Search, Edit and Export to Excel functions based on the user role.

Functionality

    i.   The BOM details can be searched with BOM Ref.#.

    ii.   The 'Edit' function allows to modify the bill of material details with BOM Ref.# and Rev.# fields as disabled

    iii.   The 'Export to Excel' function allows to download a file that contains bill of material details

BILL OF MATERIAL LIST   Work Station   Routing   Bill of Material   Job Order   Internal Order   Dashboard   Production Returns

Total Items [10]

BOM Ref. No. ...   **Search** ›

BOM Ref.#	BOM Type	UoM/Qty	Product Name	
RT74A9202165101-2.0/3T [3]	Standard BoM	EA/2.00	Test Wire Bundle Assembly	Edit ›
RT74A940135-5101-1.0/2.5 [29]	Standard BoM	EA/1.00	ROSSELL WIRE BUNDLE-CIRCUIT CONFIG - GUN SAFETY SW	Edit ›
RT74A9202165102-3.2/3.5 [4]	Standard BoM	EA/2.00	Wire Bundle Assembly.	Edit ›
RT74A920216510-1.0/1 [7]	Standard BoM	EA/2.00	mouse	Edit ›
RT74A9202165102-3.2/3 [15]	Standard BoM	EA/2.00	Wire Bundle Assembly.	Edit ›
RT74A9202165101-2.0/2.1 [16]	Standard BoM	EA/2.00	Test Wire Bundle Assembly	Edit ›
RT74A920216510-1.0/Test Rev [1]	Standard BoM	EA/2.00	Test Wire Bundle	Edit ›
RT74A920216510-1.5/3 [9]	Standard BoM	EA/2.00	Wire Bundle Assembly	Edit ›
RT74A920216510-1.5/2 [17]	Standard BoM	EA/2.00	Wire Bundle Assembly	Edit ›
74A920216-5101-1.0/1.0 [50]	Standard BoM	EA/1.00	WIRE BUNDLE ASSEMBLY	Edit ›

1.2.2. New Bill of Material

Link: Menu >> Manufacturing >> Bill of Material >> New Bill of Material

This feature allows the user to request a new BOM with finished good-FG as BOM Ref. BOM detailed data is further segregated into BOM Line Items with BOM Ref. as a parent item.

BILL OF MATERIAL   Bill of Material   Routing   Job Order   NC Order   Workstation   Job Returns   Dashboard

Note: * Indicates mandatory fields

BOM List ›   New BOM ›

BOM Header Details

BOM Ref. # :   RT74A920216-5101 - 1.0

Revision Number :   2.0

UoM/Qty: EA/1.00

Bill of Material Type: Standard BoM

Product Name: ROSSELL WIRE BUNDLE- CABLE ASSEMBLY, CREW STATION

Remarks: clone to mdfy the components

Effective Date: 01/08/2014

☑ IsActive   ☐ IsDeleted

Clone BOM ›

Clear   Update

BOM Version Cloning:

The Structured BOM as follows

Materials with material type as sub-assemblies will be mapped as child items to the parent (FG)

Materials with material type as raw materials can be mapped as child items to the parent (FG/SA)

System displays the materials in the tree structure with OEM part no. , UoM, qty. and material type

The mandatory fields marked in red asterisk must be entered.

The 'Export to Excel' function allows to download a file that contains item details

Business Rules:

- Finished good, Sub-Assemblies should be configured in the item master
- BOM Ref. list contains only the materials with material type as FG
- Composition of BOM ref. and revision must be unique
- Item details cannot be deleted, if BOM is configured in routing
- 'Part#' must be unique in item details section
- Revision should be greater than previous revision, effective date should be greater than system date
- On cloning, if finished material does not contain next higher revision, will alert the user saying, 'create new revision for the finished material' and then can clone the BOM
- If effective date of BOM revision is less than the finished material revision effective date, then after cloning the BOM, BOM ref. will not get changed
- On cloning the BOM, BOM ref. gets changed along with finished material revision

1.3. Routing
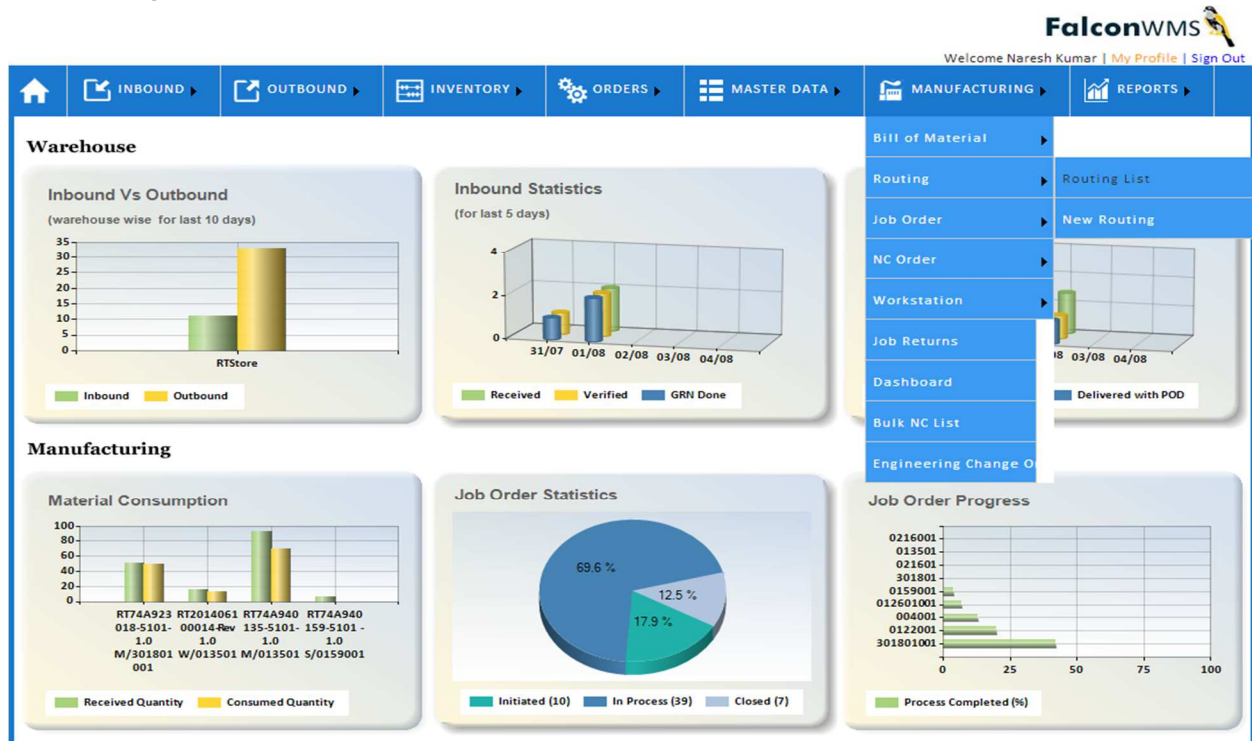
1.3.1. Routing List

Link: Menu >> Manufacturing >> Routing >> Routing List

System displays routing list with Routing Ref.#, Routing Type, BOM Ref.#, JAP Reference and Supplier Name. Routing List provides Search, Edit and Export to Excel functions based on the user role.

Functionality

i. The routing can be searched with Routing Ref.#.

ii. The 'Edit' function allows to modify the routing details with Routing Ref.#, Rev.#, Routing Document Type, BOM Ref.# and Finished Material fields as disabled

iii. The 'Export to Excel' function allows to download a file that contains routing details

1.3.2. New Routing

Link: Menu >> Manufacturing >> Routing >> New Routing

This feature allows the user to request a new routing with Routing Ref. as BOM Ref. Routing detailed data is further segregated into groups such as Inspection Check List Details, Document Ref. Details and Operation Sequences/Activities.

The mandatory fields marked in red asterisk must be entered.

Functionality

On creation of New Routing following sections will be visible to update the required data

    i.   Inspection Check List Details: Allows to update inspection check list details for the routing

ii. **TER Check Points :** Allows to configure the Test Execution Record (TER) check pints with WireID, CoreID etc. as shown below

Check Point Details   ✖

Add Check Point ▸

Wire ID	Core ID	Circle No.	Designator	Pin No.	Designator	Pin No.	Parameter Type	Min Value	Max Value	Delete	
C412F	1	D41	52P-G022	26	84P-G035B	30				☐	Edit ▸
L51C	1	D34	52P-G022	10	7P-G026	A				☐	Edit ▸
-	-	B10	34P-G003	-	34P-G004	C				☐	Edit ▸
-	-	A10	7P-G026	B5	7P-G026	D				☐	Edit ▸
C414A	1	E22	52P-G022	C	52P-G022	15				☐	Edit ▸
C417C	-	-	84P-G035B	F72	84P-G035B	27				☐	Edit ▸
10	10	G69	6P-G026	G10	6P-G026	G30	Decimal	10.00	67.00	☐	Edit ▸
										Delete ▸	

iii.   **View Routing/BOM Deficiency** will displays the raw material(s) configured in BOM with activity mapped qty.

Clone Revision ▸   View Routing/BOM Deficiency ▸

ALL BOM COMPONENTS RELATED TO THIS ROUTING ARE NOT CONFIGURED

Routing/BOM Deficiency List   ✖

Part #	BOM Qty.	Activity Mapped Qty.	Qty. to Map
RT004001300006	2.000	1.00	1.00
RT207000500010	3.000		3.00

iv.   Document Ref. Details: Allows to add document details for the routing

Document Ref. Details

Add Doc. Ref. ▸

Document Label	Document Name	File Location	Delete	
CGM	CGM Drawing Reference		☐	Edit ▸
BTP	BTP Drawing Reference		☐	Edit ▸
			Delete ▸	

v.   Operation Sequences/Activities: Allows to add operations and activities for the routing

Operation Sequences /Activities

Expand ▸ Collapse ▸   Add Operation Seq. ▸

Op.Seq./ Actv.No.	Routing /Activity	D.O.		Delete	
⊟ 5	**Check for the Tools availability as per JAP**		Add Activity[1] ▸	☐	Edit ▸
5	Check for the Tools availability as per JAP	FB	SI, QCI	IC	Pre Test	Check Points [0] ▸	Components[0] ▸	Edit ▸
⊟ 10	**Indirect /Sleeve Printing - Print Center operation 10**		Add Activity[1] ▸	☐	Edit ▸
10	Indirect /Sleeve Printing - Print Center operation 10	SM	SI, QCI	IC		Check Points [5] ▸	Components[3] ▸	Edit ▸
⊟ 10A	**Production Kitting-10A**		Add Activity[1] ▸	☐	Edit ▸
10A	Production Kitting-10A	FB	SI, QCI		After Potting		Components[0] ▸	Edit ▸
⊟ 20	**Assembly of 61J-F018 -"AA" operation 20**		Add Activity[2] ▸	☐	Edit ▸
20	Cable Preparation A40	FB	SI, QCI	IC		Check Points [2] ▸	Components[3] ▸	Edit ▸
30	Connector and Contact Preparation (61J-F018)- 5M2496-003	FB	SI, QCI	IC		Check Points [2] ▸	Components[3] ▸	Edit ▸
⊟ 30	**Assembly of 61P-R299 - "DA" operation -30**		Add Activity[1] ▸	☐	Edit ▸
40	Connector and Contact Preparation (61P-R299)- ST5M1425A01R	FB	SI, QCI	IC		Check Points [2] ▸	Components[3] ▸	Edit ▸
⊟ 50	**Locate & Install Band markers- INSTALL ID'S -50**		Add Activity[1] ▸	☐	Edit ▸
60	Locate marker ID's	FB	SI, QCI	IC		Check Points [4] ▸	Components[3] ▸	Edit ▸
⊟ 40	**Nomex Braiding - Nomex Braid Operation-40**		Add Activity[1] ▸	☐	Edit ▸
50	Nomex Braid	FB	SI, QCI	IC		Check Points [2] ▸	Components[4] ▸	Edit ▸
⊟ 60	**Electrical Tests - Final Test-60**		Add Activity[2] ▸	☐	Edit ▸
70	Continuity Checks	FB	SI, QCI	IC		Check Points [0] ▸	Components[3] ▸	Edit ▸
80	Hipot test	FB	SI, QCI	IC		Check Points [0] ▸	Components[3] ▸	Edit ▸

   a. **Add Operation Seq**.: Allows to add operation seq. to the routing

   b. **Add Activity** : Allows to add activity details to each operation seq. by selecting the work station type ,Operators related to the activity

   c. Pre-configured TER checkpoints will be mapped at activity level by defining the TER Capture type

      The mandatory fields marked in red asterisk must be entered to create a new activity.

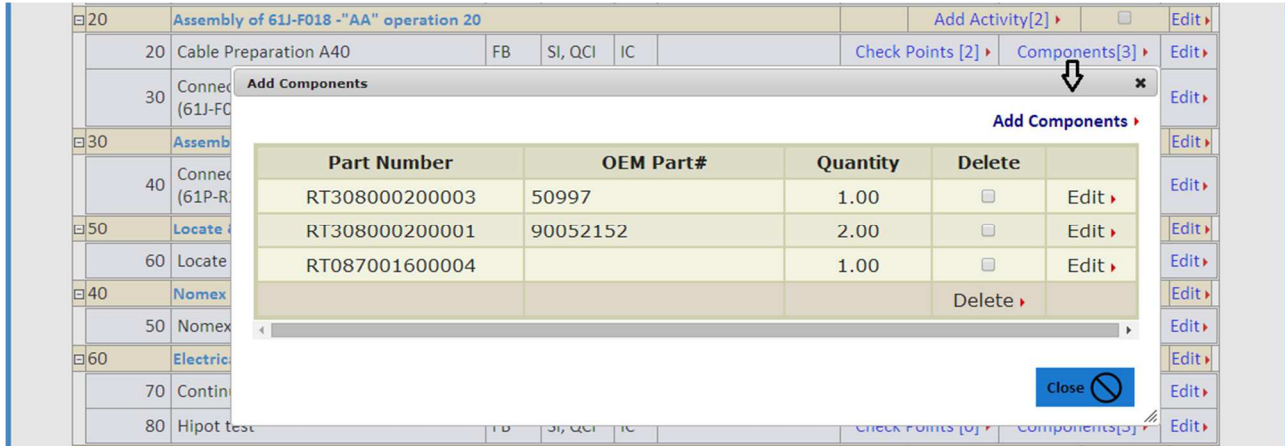d. **Add Check Points:** Allows to add check points to the activity

e. **Add Components :** Allows to add components to each activity which are configured in BOM

- The 'Edit' function in operation seq./Activity allows to modify the details
- Only the authorized users can delete the Activity/Component details

Business Rules:

Routing Header

- Routing Ref. list contains only the materials with material type as 'FG'
- Composition of Routing Ref. and revision must be 'Unique'
- Finished material list contains materials based on 'Routing Document Type'
- BOM Ref.# list contains materials related to Routing Ref. with different revisions
- Unable to update the active / delete status, once production process is started
- Unable to edit/delete the TER check points, once production process is started

Revision

- On creating a new revision, previous revision components, checkpoints should be mapped to the new revision
- On creating the new revision for a new BOM revision, routing ref, BOM ref., finished material revision should get changed
- The component which got changed should be added to the activity in which it was configured

Operation Sequences/Activities

Activity

- Composition of operation seq. and activity no. must be 'Unique'

QC Parameters

- Parameter type, min. value, max.value fields exists only for recorded type QC parameter

Components

- Materials can be configured for any activity/operations, sum of quantities of components from different activities must be equal to the quantity of raw materials configured in BOM
- Unable to delete, once production process is started

1.4. Job Order
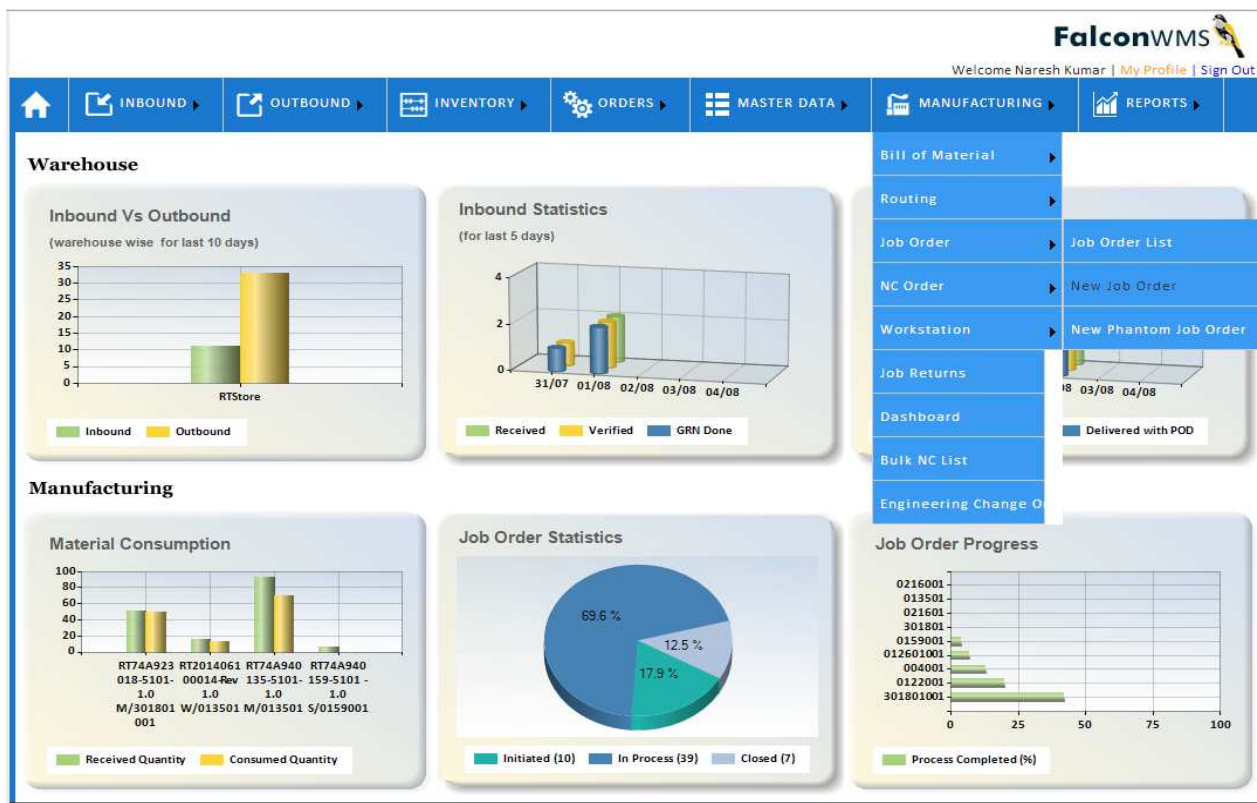
1.4.1. Job Order List

System displays job order list with Job Order Ref.#, Kit Code, WO Ref.#, Routing Ref.#, UoM, Qty and Status. Job Order List provides Search, Edit and Export to Excel functions based on the user role.

Functionality

i.   System filters the job order by selecting the job order status

ii.   The job order can be searched with 'Job Order Ref. No.'

iii.   The 'Edit' function in Job Order List allows to modify the job order details

iv.   The 'Export to Excel' function allows to download a file that contains job order details

v.   /* NC request raised during production process, will be displayed in the job order list and system directs to NC order page on selecting 'New NC Order'   */

JO Ref.#	Routing Type	Kit Code	WO Ref.#	Routing Ref.#	Qty.	Order Date	Start Date	Status	
⊞ RT74A923018-5101-D	Main Assembly	301801001	WO1400001	RT74A923018-5101-1.0/1.0 M	1.00	20/08/14	20/08/14		Edit ▸
⊞ RT74A920216-5101-D	Main Assembly	021601	WO1400021	RT74A920216-5101-1.0/1.9 M	1.00	19/08/14	19/08/14		Edit ▸
⊞ RT74A923213-5101-A	Wire Marking	321301	WO1400040	RT74A923213-5101-1.0/1.0 W	1.00	19/08/14	19/08/14	🟧	Edit ▸
⊞ RT74A940159-5101 -C	Sleeve Printing	01590012	WO1400039	RT74A940159-5101 -1.0/1.0 S	1.00	19/08/14	19/08/14		Edit ▸
RT88A920-1003P-B	Sets/Phantoms	PH1400023		RT88A920-1003P-1.2/1.5 S	1.00	02/08/14	02/08/14	🟧	Edit ▸
⊞ RT74A920216-5101-C	Main Assembly	021601	WO1400021	RT74A920216-5101-1.0/2.3 M	1.00	01/08/14	01/08/14	🟧	Edit ▸
⊞ IN74A940040-5101-C	Main Assembly	040001	WO1400032	IN74A940040-5101-1.0/1.0 M	1.00	25/07/14	25/07/14	🟧	Edit ▸
⊞ IN74A940040-5101-B	Wire Marking	040001	WO1400032	IN74A940040-5101-1.0/1.0 W	1.00	25/07/14	25/07/14		Edit ▸
⊞ IN74A940040-5101-A	Sleeve Printing	040001	WO1400032	IN74A940040-5101-1.0/1.0 S	1.00	25/07/14	25/07/14		Edit ▸
⊞ IN74A940126-5101-C	Main Assembly	0126001	WO1400030	IN74A940126-5101-1.0/1.0 M	1.00	25/07/14	25/07/14		Edit ▸

1.4.2. New Job Oder

Link: Menu >> Manufacturing >> Job Order >> New Job Order

This feature allows the user to request a new job order with job order ref. as BOM ref.

Work order with finished good as a line item should be created. The mandatory fields marked in red asterisk must be entered.

On creation of job order, status will be 'Initiated'.

Functionality

View Material Deficiency

Material Deficiency list displays the raw materials required qty. (product of job order qty. and raw materials qty. configured in BOM), available qty. and deficiency (qty. will be displayed in B.UoM point of view)

THIS JOB ORDER HAS INSUFFICIENT MATERIALS TO RELEASE

View Material Deficiency ▶

Release JO ✓   Clear ⃠   Update ✓

Material Deficiency List ✕

MCode	Required Qty.	Available Qty.	Deficiency
RT207003100006	29.00	19.50	9.50

Workstation Configuration: Allows to assign work stations for the routing configured in job order

JOB ORDER   📊 Bill of Material 🔗 Routing 📋 Job Order 📋 NC Order 🖥 Workstation 📋 Job Returns ⚙ Dashboard

Note: * Indicates mandatory fields   🗎 Workstation Configuration ▶

Main Assem

Workstation Configuration ✕

Workstation Configuration

* Fini
IN74A

* Job
Produ

* Job
25/07

* Wo
WO14

* UoM
EA

CoC N
1829

Shop

Addti

Rema

Job Ref. No.:
Quantity: 1.00
Routing Ref. No.: IN74A940040-5101-1.0/1.0

Workstation Type	Workstation	Status
Braiding Machine	Select Workstati ▼	Not Assigned
Fabrication	INVENTRAX22 ▼	Assigned
Kitting	Select Workstati ▼	Not Assigned
PanStock	Select Workstati ▼	Not Assigned
Potting Machine	Select Workstati ▼	Not Assigned
Sleeve Marking	Select Workstati ▼	Not Assigned
Wire Marking	Select Workstati ▼	Not Assigned

Close ⃠   Assign Workstation ✓

☑ IsActive   ☐ IsDeleted

Job order will be released to start the production process.

On releasing job order, outbound with a delivery pick note will be generated to pick the raw materials configured in routing and status of job order will be 'In Process'

Business Rules:

- Job Order Ref. list contains only the materials with material type as 'FG'
- Composition of Job Order Ref. and Routing Version Ref. must be 'Unique'
- Routing Version Ref. list contains the routing ref. with routing types related to job order ref.
- Kit Code will be same for all routing ref. types configured in job order, and varies when work order for the same finished good changes
- Job order quantity should not exceed work order quantity
- On assigning the work stations, 'Release JO' button will be visible
- On releasing the job order, mandatory fields, IsActive/deleted checkbox gets disabled
- Job order can be released if there exists atleast one material without deficiency
- After releasing the job order, 'assign work station' button in job order report page gets disabled
- User clicks 'Change New Routing Version', system displays pop-up message whether to change the revision, and if any revision exists for the current job, job revision gets changed
- If no revision exists for the current job, then system displays error message saying, 'no revision exists'
- On cloning the job revision, new materials/modified material configured in BOM will be displayed in the material pending list

1.4.3. New Phantom Job Order
Link: Menu >> Manufacturing >> Job Order >> New Phantom Job Order

This feature allows the user to request a new phantom job order with job order ref. as Routing ref. and auto-generated kit code (PH******). The mandatory fields marked in red asterisk must be entered.

On creation of phantom job order, status will be 'Initiated'.

System displays various combinations of materials with different batch numbers and possible quantity

Phantom Material Possibility Matrix [240]

Part Number [BoM Ratio]	RT20010001 [4.000]	RT20010002 [5.000]	RT20010003 [4.000]	RT20010004 [5.000]	Possible Phantom Qty.		Require Qty.
Batch No [Total Qty]	9230 [4.80]	8001 [7.00]	7001 [16.80]	6001 [5.00]	1	☑	1
Batch No [Total Qty]	9231 [18.20]	8001 [7.00]	7001 [16.80]	6001 [5.00]	1	☐	
Batch No [Total Qty]	9232 [6.00]	8001 [7.00]	7001 [16.80]	6001 [5.00]	1	☐	
Batch No [Total Qty]	No BatchNo [10.00]	8001 [7.00]	7001 [16.80]	6001 [5.00]	1	☐	
Batch No [Total Qty]	9230 [4.80]	8001 [7.00]	7002 [24.00]	6001 [5.00]	1	☐	
Batch No [Total Qty]	9231 [18.20]	8001 [7.00]	7002 [24.00]	6001 [5.00]	1	☐	

Selected combination with given required quantity will create an Outbound (PR*******) and delivery pick note for the selected combination directs to 'Goods-Out' page with available quantity to pick the item

1.4.4. Create Phantom

Link: Menu >> Inventory >> Create Phantom

System displays the phantom kit item details with Batch No., and Quantity.

- System creates an inbound with invoice attached to it with invoice qty. as require qty. configured in phantom material possibility matrix

Business Rules

- Entered quantity should be less than or equal to the possible combination
- PGI done shipments will be available for the selected kit code

1.5. NC Order
1.5.1. NC Order List

Link: Menu >> Manufacturing >> NC Order >> NC Order List

System displays NC Order List with NC Order Ref.#, Job Order Ref.#, Work Station and Status Information. NC Order List provides Search, Edit and Export to Excel functions based on the user role.

Functionality

i. The NC Order can be searched with 'NC Order Ref. No.'
ii. The 'Edit' function in NC Order List allows to modify the NC Order details
iii. The 'Export to Excel' function allows to download a file that contains NC Order details

NC Order Ref.#	Job Order Ref.#	Work Station	Reason for request	Status	
NC1400145 [2]	RT74A920216-5101-2.0	INVENTRAX2	Production Delay	Created Outbound	Edit ›
NC1400144 [2]	RT74A920216-5101-2.0	INVENTRAX2	Production Delay	Created Outbound	Edit ›
NC1400143 [1]	RT74A920216-5101-2.0	INVENTRAX8	Production Delay	Created Outbound	Edit ›
NC1400142 [1]	RT74A920216-5101-2.0	INVENTRAX8	Production Delay	Created Outbound	Edit ›
NC1400141 [1]	RT74A920216-5101-2.0	INVENTRAX8	Material Damage	Created Outbound	Edit ›
NC1400140 [1]	RT74A920216-5101-2.0	INVENTRAX8	Production Delay	Created Outbound	Edit ›
NC1400139 [2]	RT74A920216-5101-2.0	INVENTRAX2	Production Delay	Created Outbound	Edit ›
NC1400138 [1]	RT74A920216-5101-1.0	INVENTRAX8	Production Delay	Created Outbound	Edit ›
NC1400137 [1]	RT74A920216-5101-1.0	INVENTRAX8	Production Delay	Created Outbound	Edit ›
NC1400136 [1]	RT74A920216-5101-1.0	INVENTRAX21	Production Failures	Created Outbound	Edit ›

1.5.2. New NC Order

Link: Menu >> Manufacturing >> Job Order List >> Job Order Ref.# (Column) >> NC Ref.No.>>
New NC Order

This feature allows the user to request a new NC. NC Ref. No is auto-generated control.NC detailed data is further segregated into NC Order Material List for its operations convenience.

The mandatory fields marked in red asterisk must be entered.

On creation of NC order, status will be 'initiated'

Functionality

On creation of new NC following section will be visible to update the required data

  i.   NC Order Material List: Allows to add NC material(s)

Once NC materials are created, 'Release NC' Button will be made visible

On releasing the 'NC order', outbound with delivery pick note will be generated to pick the NC materials and the status of 'NC order' will be 'Created Outbound'

Business Rules:

- Job order ref. list contains the 'In Process' status job orders related to the kit code
- Work station list contains the work stations configured in routing
- Routing operation list contains the operation seq. related to the job order ref.
- Activity list contains the activities related to the routing operation
- On releasing the NC order, mandatory fields, IsActive/deleted checkbox, new material button gets disabled
- Part number list contains materials configured in BOM

1.6. Job Returns

Link: Menu >> Manufacturing >> Job Returns

The following screen displays the list of line items to the selected KitCode and Job Order Ref.No.

| JOB RETURNS | | | Bill of Material | Routing | Job Order | NC Order | Workstation | Job Returns | Dashboard |

KitCode: 012601001 ▼   Job Order Ref. No. RT74A940126-5101-1.0 M ▼   **Get Details** ▸

Line No.	Part Number	IUoM/ Qty.	KitID	Quantity	Returned Qty.	Mfg. Date	Exp. Date	Serial No.	Batch No.	Plant	Stock Type	Calb. Dt.	Calb. Due Dt.	OEM BatchNo	Select	Return Qty.
1	RT207014200004 [D-436-0186]	EA/1.00		4.00	0.00				1203-02						☐	4.00
2	RT226001300001 [M8805/100-017]	EA/1.00		1.00	0.00				1088-01						☐	1.00
1	RT087001700001	EA/1.00		2.00	0.00				BCH 1						☐	2.00
3	RT087001700001	EA/1.00		1.00	0.00	04/06/2014			8021						☐	1.00

Return ✓

Line Items are with Line No., Part Number (raw materials and NC materials), IUoM/Qty, Return Qty. User can return the selected line item

The Return Qty. Permitted column of the screen allows to return the quantity of each of the Line Item.
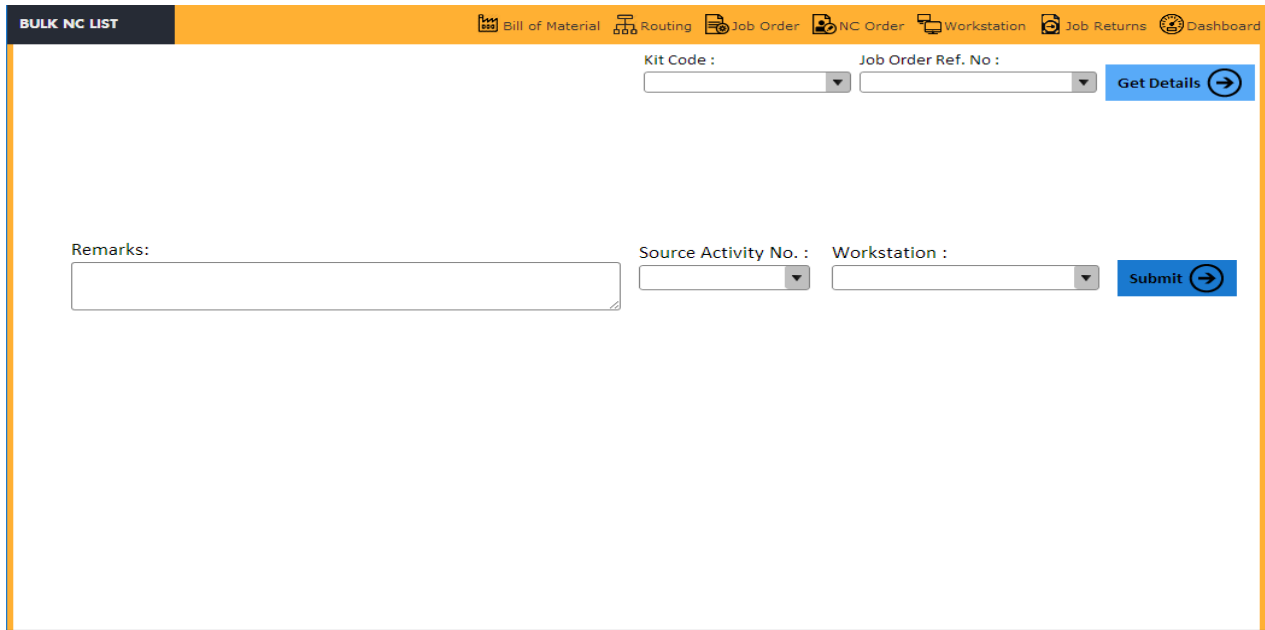
Once the return item is updated, the system displays the following message "Successfully returned the materials with Store Ref. No.: RPRRTS*****."

Business Rules:

- Job orders with status as 'In Process' will be available in the list
- On returning the material, a dummy inbound with a PO and invoice attached to it will be created, RTR will be generated
- Quantity column contains the picked quantities of raw materials
- Returned quantity should be less than or equal to the available quantity

1.7. Bulk NC List

Link: Menu >> Manufacturing >> Bulk NC List

System displays Bulk NC List with Operations, Activities, Components and Qty. configured in routing information by providing KitCode and Job Order Ref.No. to raise an NC Order at activity / components level

Details

- System displays activity details and material details of each activity with their batch no. and consumed quantity
- **Activity Level NC:** User selects one or more activity to scrap and enters remarks, selects source activity no. and work station
- **Material NC:** User selects one or more activity and material configured for activity to scrap and NC Order is released for the selected materials

Kit Code :
0206001 ▾

Job Order Ref. No :
RT74A920206-5101-1.0 S ▾

Get Details ➔

☐ **10** Wire Harness Identification - Print Center operation - 10
- ☐ **90a** Print (Wire Bundle Production Part Number Marker) 1 No
- ☐ **90b** print (Bundle Serial Number and Date of Bundle Manufacture) 1 No
  - ☐ RT303001200005 | (MMS809-3-DL3/32) | Batch No. : 1235-02 | Qty: 1.00   `1.00`
  - ☐ RT227000100004 | (TTVF-125-YW-100) | Batch No. : 1202-16 | Qty: 1.00   `1.00`
- ☐ **90c** Print (Band Marker) 2 No
  - ☐ RT303001200004 | (MMS809-2-DL3/32) | Batch No. : 1236-06 | Qty: 3.00   `3.00`
  - ☐ RT303001200022 | (MMS809-9-DL3/32) | Batch No. : 1235-01 | Qty: 1.00   `1.00`
- ☐ **90d** print (Country of origin) 1 No
  - ☐ RT303001200005 | (MMS809-3-DL3/32) | Batch No. : 1235-02 | Qty: 1.00   `1.00`
  - ☐ RT227000100004 | (TTVF-125-YW-100) | Batch No. : 1202-16 | Qty: 1.00   `1.00`

☐ **25** Colour code wire Identification - (Print Center operation - 25)
- ☐ **100** Print wire ID's on MMS809-9-DL - 3/16 -22 Nos
  - ☐ RT303001200006 | (MMS809-8-DL3/32) | Batch No. : 1237-07 | Qty: 1.00   `1.00`
  - ☐ RT303001200023 | (MMS809-9-DL3/16) | Batch No. : 1202-19 | Qty: 2.00   `2.00`
- ☐ **110** Print wire ID's on MMS809-2-DL - 3/32 - 6 Nos
  - ☐ RT303001200006 | (MMS809-8-DL3/32) | Batch No. : 1237-07 | Qty: 1.00   `1.00`
  - ☐ RT303001200023 | (MMS809-9-DL3/16) | Batch No. : 1202-19 | Qty: 1.00   `1.00`
- ☐ **120** Print wire ID's on MMS809-3-DL - 3/32 - 2 Nos
  - ☐ RT507010010001 | (5070-1) | Batch No. : 1720 | Qty: 1.50   `1.50`
  - ☐ RT709010010001 | (7090-1) | Batch No. : 3014 | Qty: 1.00   `1.00`
- ☐ **130** Print wire ID's on MMS809-8-DL - 3/32 - 2 Nos
  - ☐ RT608010010001 | (6080-1) | Batch No. : 2013 | Qty: 0.50   `0.50`
  - ☐ RT608010010001 | (6080-1) | Batch No. : 2014 | Qty: 1.00   `1.00`
  - ☐ RT709010010001 | (7090-1) | Batch No. : 3015 | Qty: 1.00   `1.00`
- ☐ **140** Print wire ID's on MMS809-9-DL - 3/32 - 2 Nos
  - ☐ RT507010010001 | (5070-1) | Batch No. : 1720 | Qty: 1.00   `1.00`
  - ☐ RT608010010001 | (6080-1) | Batch No. : 2013 | Qty: 0.50   `0.50`
  - ☐ RT608010010001 | (6080-1) | Batch No. : 2014 | Qty: 1.00   `1.00`

Remarks:

Source Activity No. :   `10 - 90a` ▾

Workstation :   *INVENTRAX8* ▾

Submit ➔

Business Rules:
- Scrap quantity should be less than consumed quantity
- Quantity cannot be zero
- Selected activities gets failed along with the source activity selected
- Consumed materials only displayed in the NC list with respective activity

1.8. Engineering Change Order [ECOM]

Link: Menu >> Manufacturing >> Engineering Change Order

System displays the ECOM page, lists available revisions of FG, BOM and Routing with KitCode for the selected Part Number and Routing type as shown below

User selects the routing revision and clicks upgrade kitcode (green color), system updates the job order with new routing revision

Business Rules

- If more than one revision is available, until the first configured revision is transferred, cannot update the latest revisions
- If effected date of routing is greater than the system date, then kit code will be displayed in grey color and cannot be transferred until the effective date reaches the system date

1.9. Dashboard

Link: Menu >> Manufacturing >> Dashboard

The following screen displays the list of materials in Work In Progress i.e., processed/configured in Job Order and process status of activities

Work In Progress
[13/6/2014]

a. Job Order Header data

74A920210-5101 [0210|01|001]
RT74A9202165102-3.2 S

Not Started
In Process
Completed
Failure

Time Elapsed since Act.St.Dt.
28D:5H:39M
Time Elapsed since Due.St.Dt.
15D:17H:18M

10 10 20 30 40 50 60 70 80 10 90a 90b 90c 90d 90e 30 100 110 120 130 140 150 160 170 180
Plan St.Dt. 18/05/14 | Act. St.Dt. 16/05/14 11:39   Plan. Due Dt.29/05/14 | Act. Due Dt. 13/06/14 17:18

f. IsPositive Recall

b. Operation Seq. details

e. NC Captured details

d. Work Station details

c. Activity details

74A940135-5101 [0135|01|001]
RT74A940135-5101-1.0 M

Time Elapsed since
16D:23H:42M
Time Elapsed since
1D:17H:18M

10 10 15 10A 10A 20 20 30 40 50 60 20 70 80 90 100 110 120 130 20 140 150 160 170 180 190 200 210 220 230 20 240 250 260 30 270 40 280 290 5 5 50 300 60 310 320
Plan St.Dt. 27/05/14 | Act. St.Dt. 27/05/14 17:36   Plan. Due Dt.12/06/14 | Act. Due Dt. 13/06/14 17:18

a. Job Order Header data

On mouse over control of Part Number, job order details tooltip will be displayed with KitCode, Start Date, Due Date etc.
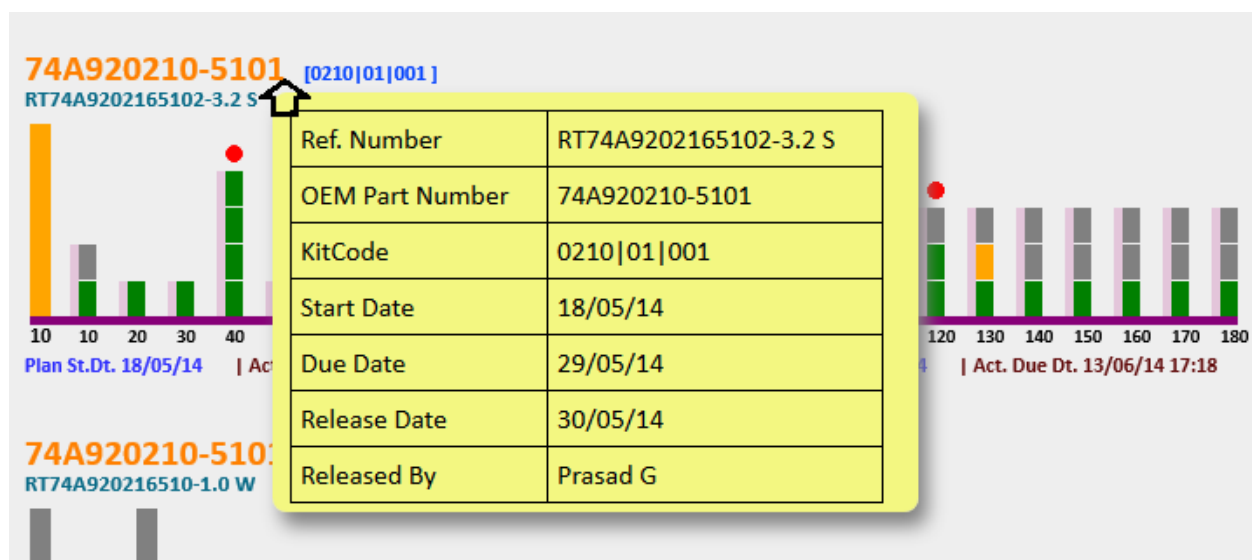

74A920210-5101 [0210|01|001]
RT74A9202165102-3.2 S

Ref. Number	RT74A9202165102-3.2 S
OEM Part Number	74A920210-5101
KitCode	0210|01|001
Start Date	18/05/14
Due Date	29/05/14
Release Date	30/05/14
Released By	Prasad G

10 10 20 30 40
Plan St.Dt. 18/05/14 | Ac...

120 130 140 150 160 170 180
| Act. Due Dt. 13/06/14 17:18

74A920210-5101
RT74A920216510-1.0 W

b. Operation Seq. Details

On mouse over control of operation seq. tooltip will be displayed with oprn.# and name
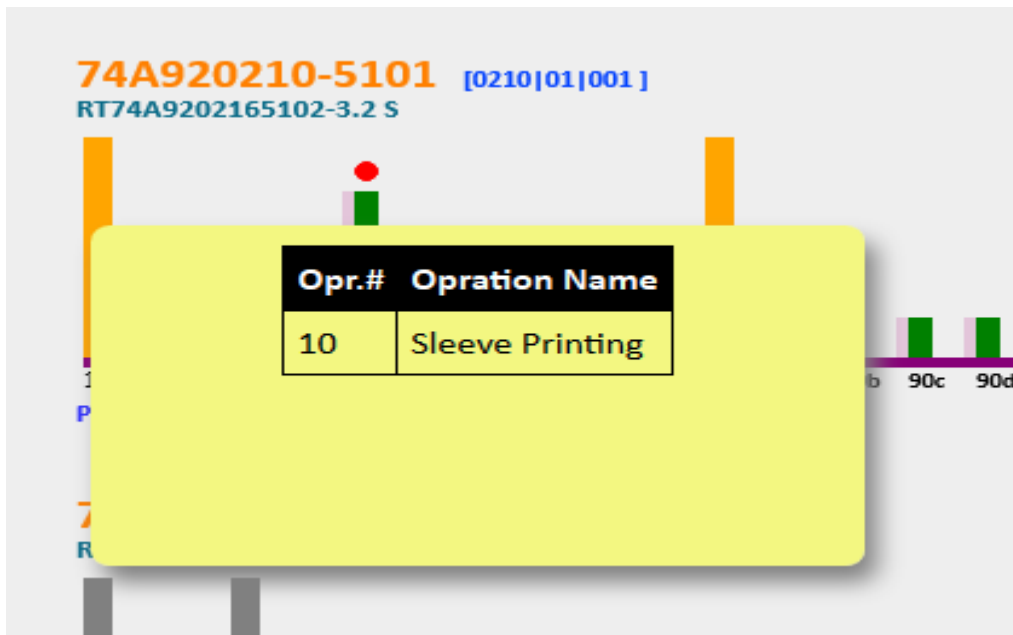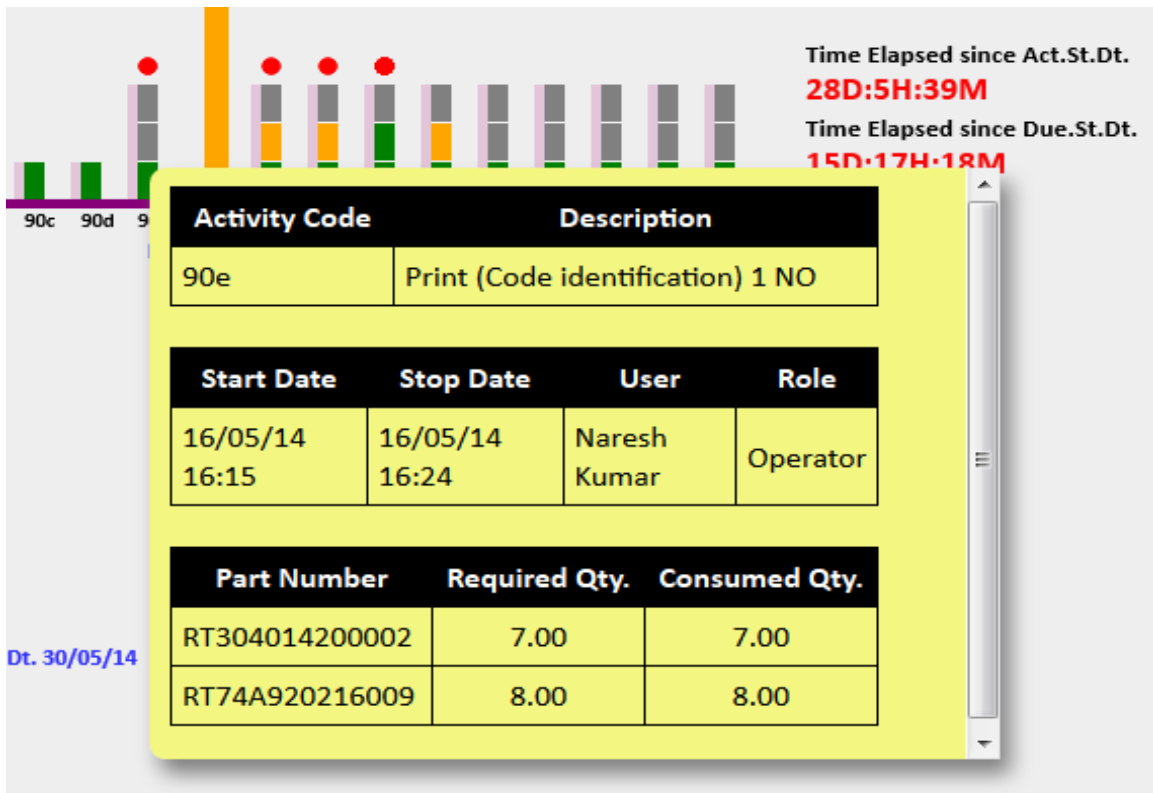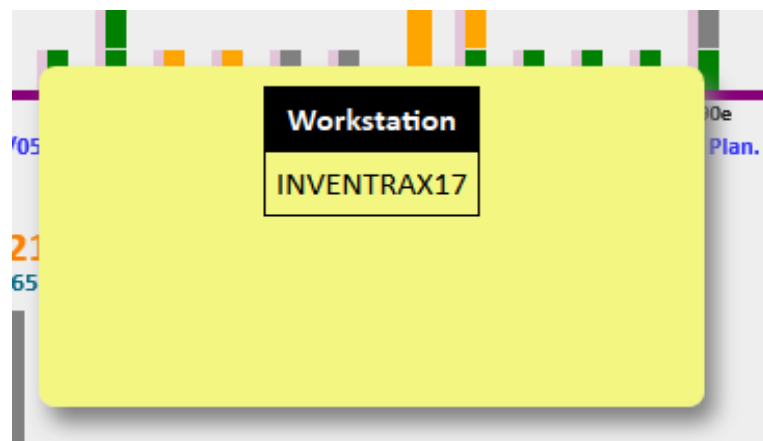

c. Activity Details

On mouse over control of activity, tooltip will be displayed with activity details, operator details and raw material details (req. & cons.qty)

d. Work Station details

On mouse over control of work station, tooltip will be displayed with work station name

e. NC Details

On mouse over control of NC captured details, tooltip will be displayed with NC details (NC Ref.#, Part Number ,Qty.)

NC No.	Remarks	Raised By	Raised On	User Role
4283		Swami P	09/06/14	QC

NC Ref. No.	Part Number	Qty.
NC1400011	RT303001000001	3.00

f. Positive Recall Flag

On mouse over control of flag, tooltip will be displayed with Part Number, Batch No., and status of recall

Part Number	Batch No.	recall ON	recall OFF
RT308000200008	MSFB 15	Prasad G [13/06/14]	Prasad G [13/06/14]
RT207014200001	MSFB	Prasad G [13/06/14]	Prasad G [13/06/14]
RT207014200001	MSFB	Prasad G [13/06/14]	