For Smart Factory



Operating User MANUAL





Auto & S.I

User Manual

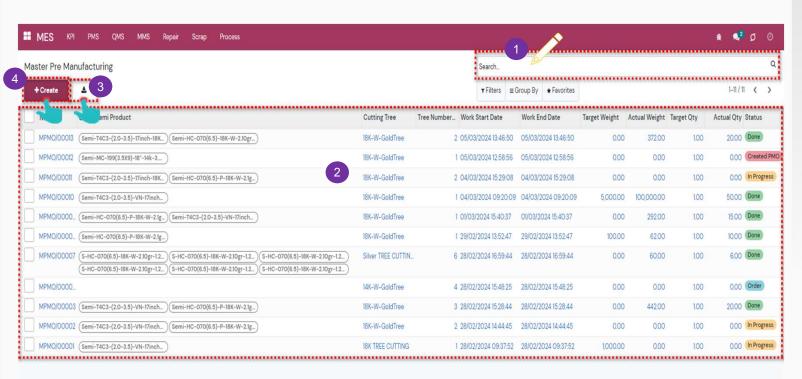
Tabl	le	of	
Con	te	'n	ts

l.	Master Pre Manufacturing	Slide 3 > 6
II.	PMO (Pre Manufacturing Order)	Slide 7 > 15
III.	Alloy	Slide 16 > 22
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V.	Silver Mold	Slide 33 > 42



Pre Manufacturing System

I. Master Pre Manufacturing
Information on the list of master pre-production forms



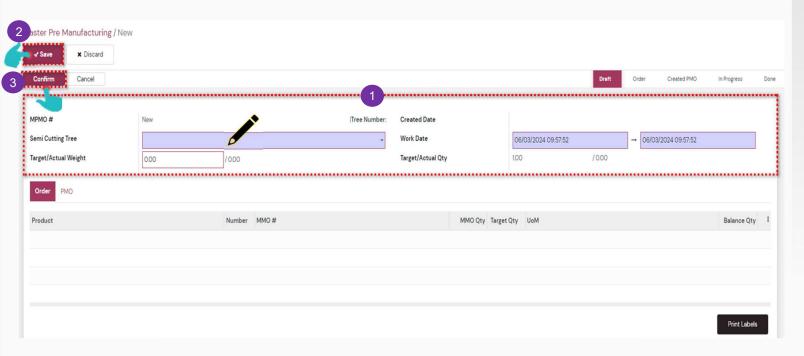


- 1. Search function
- Master Pre-production form information
- 3. Excel file download function
- Click "Create" to create. See the next slide

Pre Manufacturing System

I. Master Pre Manufacturing

Create Master pre-production form



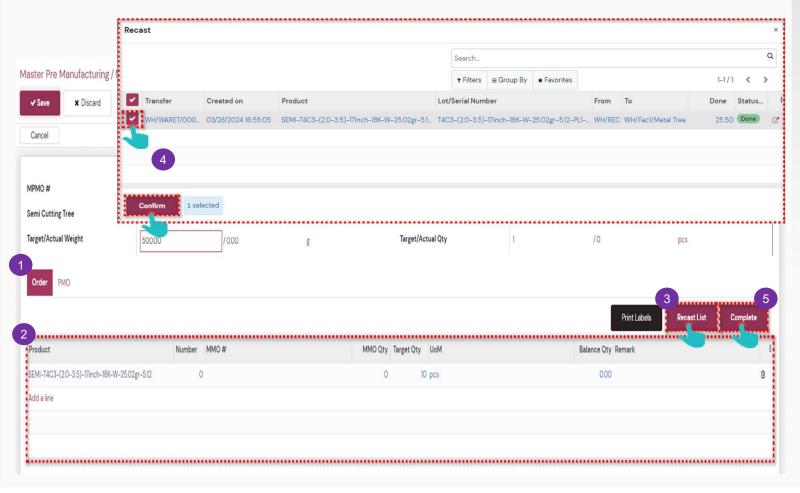


- 1. Fill in information:
 - Semi Cutting Tree
 - Work Date.
 - Target/Actual Weight
- 2. Click "Save" to save
- 3. Click "Confirm" to confirm

Pre Manufacturing System

I. Master Pre Manufacturing

Add a pre-production output quantity target

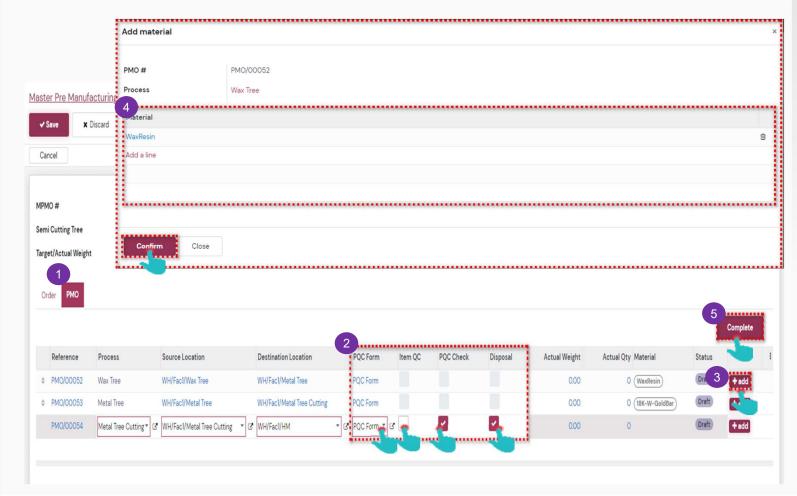




- The "Order" tab contains information about the target list of output semifinished products for pre-production
- 2. Fill in information:
 - Product
 - Number
 - MMO#
 - Target Qty
- Or click "Recast List" to select semifinished products to wait for recasting
- 4. Tick to the semi-finished product and click "Confirm".
- Click "Complete" to complete the process and change to the next state

Pre Manufacturing System

I. Master Pre Manufacturing
PMO Setting





Step by step:

- At the "PMO" tab, after "Confirm", the PMO list will automatically display after confirming the target. Each PMO will correspond to 1 process. The PMO list will automatically update on the "PMO" page.
- 2. Select in the information:

- Item QC Form: PQC

check function

- Item QC: Tick if the

process has Item QC check

- PQC Check: Tick if

the process has PQC check

- Disposal: Check and return the remaining gold to recasting

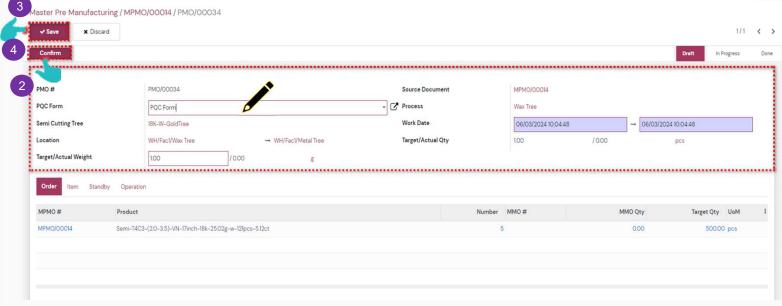
- Click "add" to add materials to use for the process
- 4. Select the material to use, then click "Confirm" to confirm.
- 5. Click "Complete" to continue.

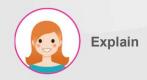
Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Carry out the Wax Tree, Metal Tree and Cutting process







Step by step:

- 1. Click PMO in the list
- 2. Fill in the information:

- PQC Form: PQC

check form

- Work Date
- Target/Actual Weight.
- Click "Save" to save
- . Click "Confirm" to

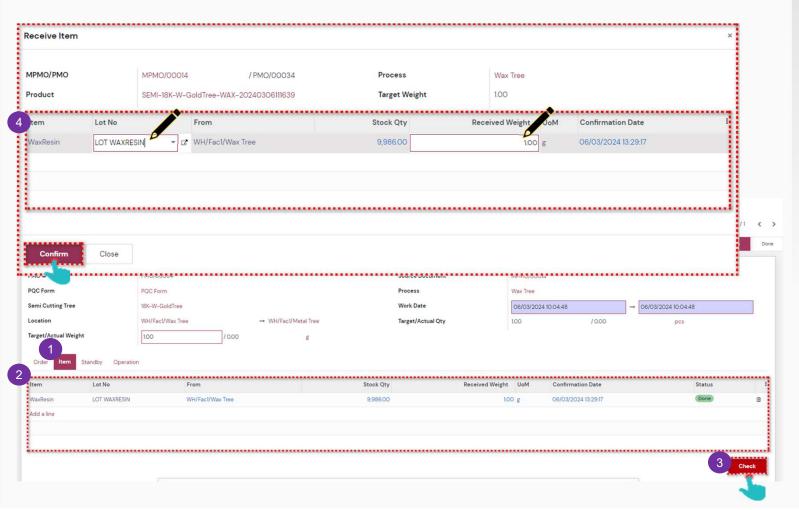
confirm

3.

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Add input materials to the process





Step by step:

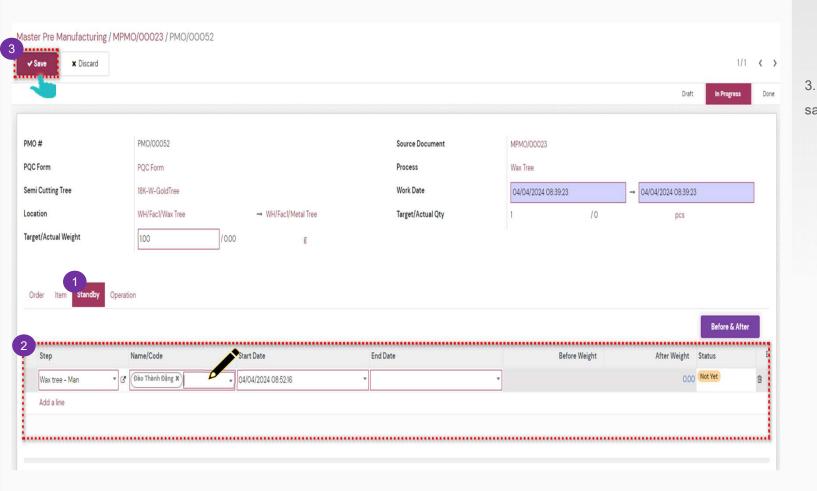
- The "Item" tab contains information about the list of materials to use
- 2. Material list information
- Click "Check" to proceed with adding lots and entering the input quantity
- 4. Fill in the information:
 - Lot No
 - Received Weight

Then click "Confirm" to continue.

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Add workers, machines, and molds to the process





Step by step:

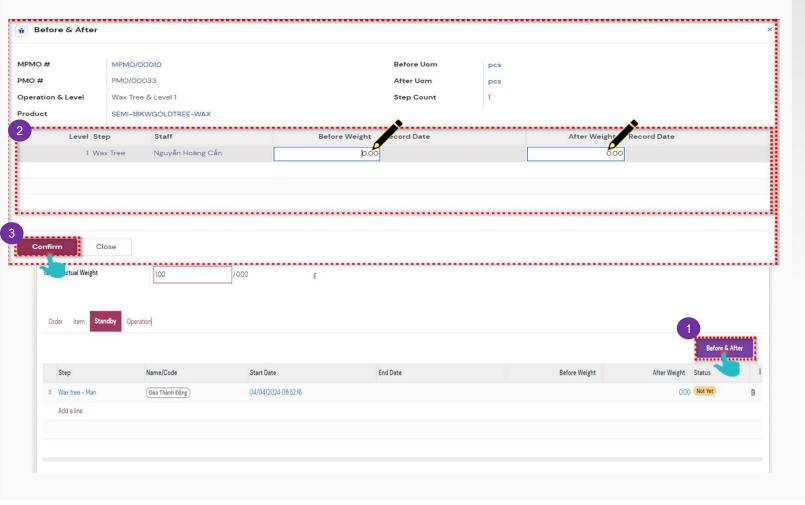
- 1. At the "Standby" tab
- 2. Điền các thông tin:
 - Step
 - Name/Code
 - Start Date
 - End Date
- Then click "Save" to

save

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Enter the weight before and after production



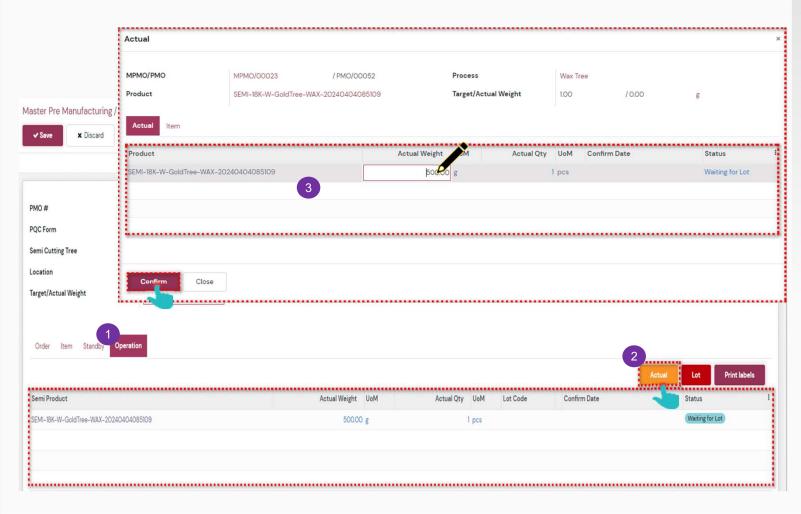


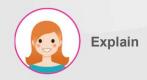
- 1. Click the "Before & After" button
- Fill in Before Weight and After Weight.
- 3. Then click "Confirm" to confirm.

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Create actual weight

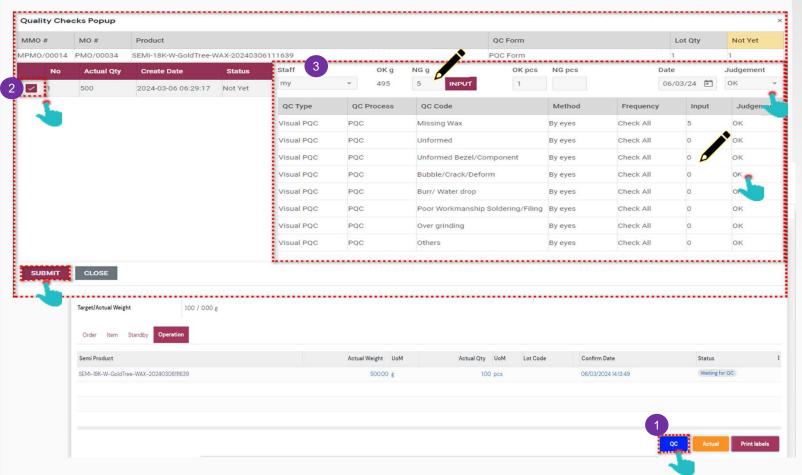




- At the "Operation" tab. Actual weight & qty information will be automatically updated after entering weight after weighing in the "Standby" tab.
- 2. Click "Actual" to edit
- Fill in information Actual Weight. Then click "Confirm".

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)
Check PQC of output semi-finished products



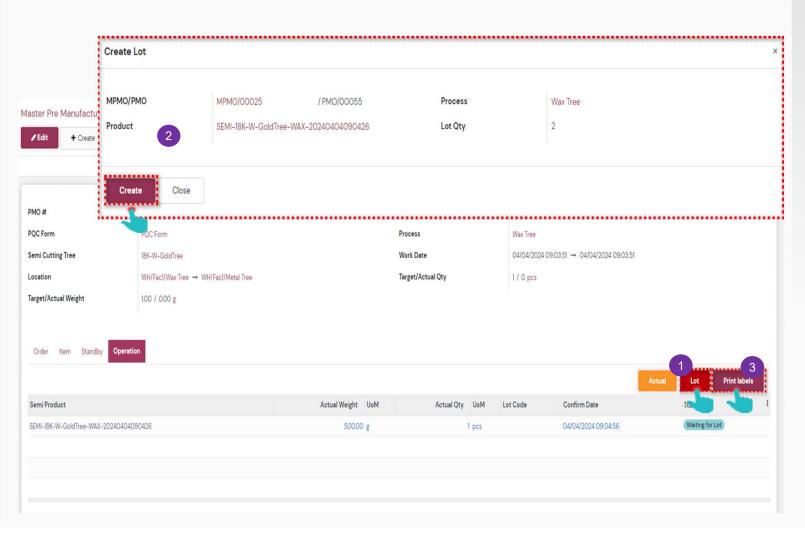


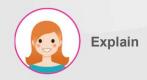
- Click the "PQC" button to conduct the check
- 2. Select semi lot from the list
- Fill in the result information after checking. Then click "Submit" to confirm

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Create lot of semi-finished products



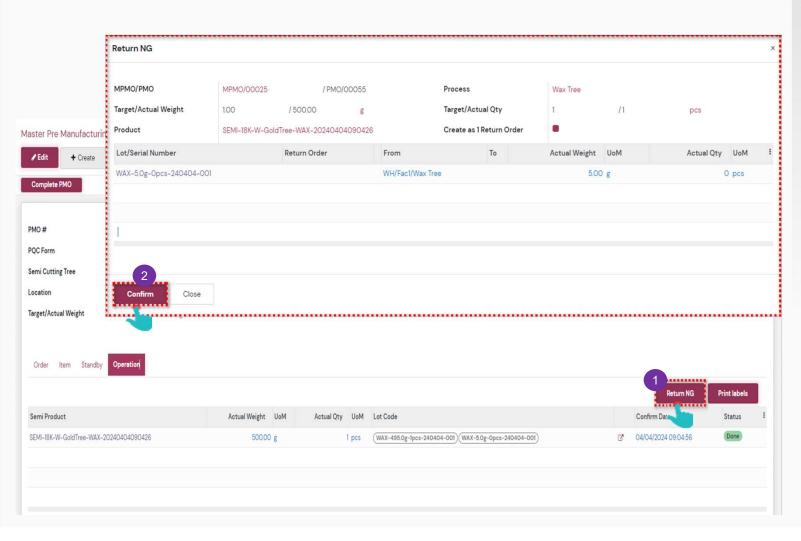


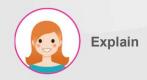
- 1. Click "Lot" to create
- 2. Select "Create" to confirm lot creation
- 3. Click "Print labels" to print QR

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Return semi-finished NG products to the repair warehouse



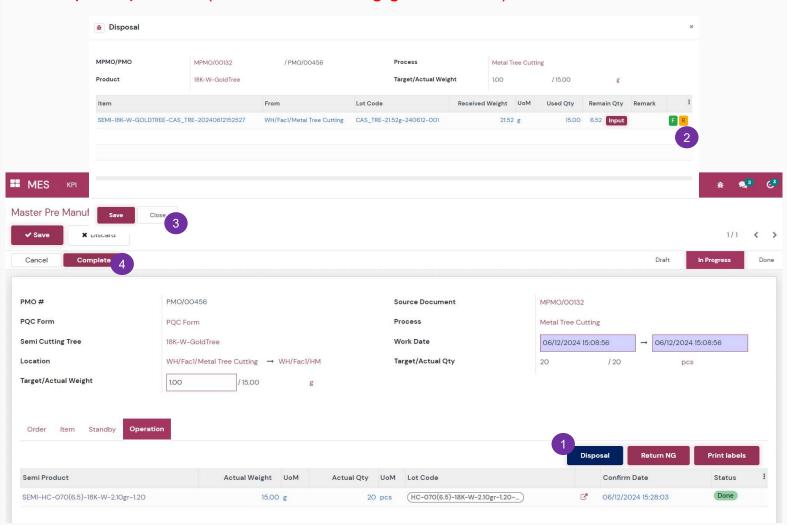


- Click the "Return NG" button to return
- 2. Click "Confirm" to confirm creating the return form.

Pre Manufacturing System

II. PMO (Pre Manufacturing Order)

Disposal process (return of remaining gold amount)



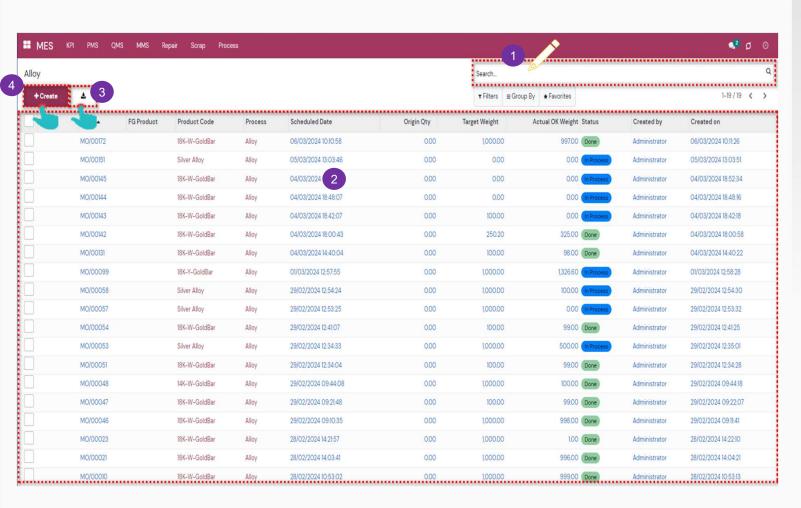


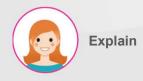
- Proceed by clicking the "Disposal" button.
- Weight of received gold tree the weight of the cut product is displayed. Press the "R" button to move the remaining amount to MES > MMS > Recasting List.
- 3. Close the window by pressing the "Close" button.
- Click the "Complete" button to complete the MPMO.

Pre Manufacturing System

III. Alloy

Alloy production list information



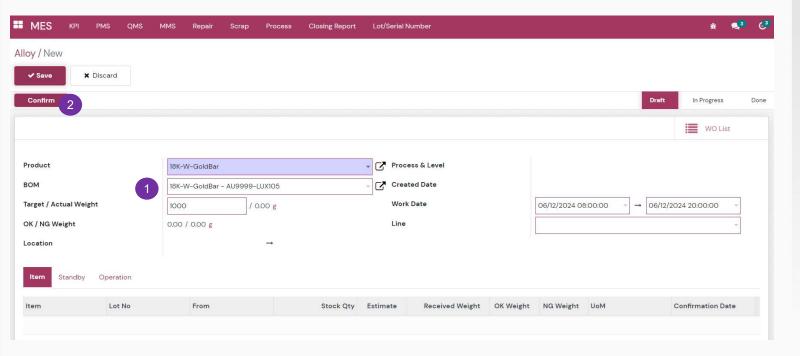


- 1. Search function
- 2. Alloy production order information
- Excel file download function
- 4. Click "Create" to create. See the next slide.

Pre Manufacturing System

III. Alloy

Create Alloy Work Orders



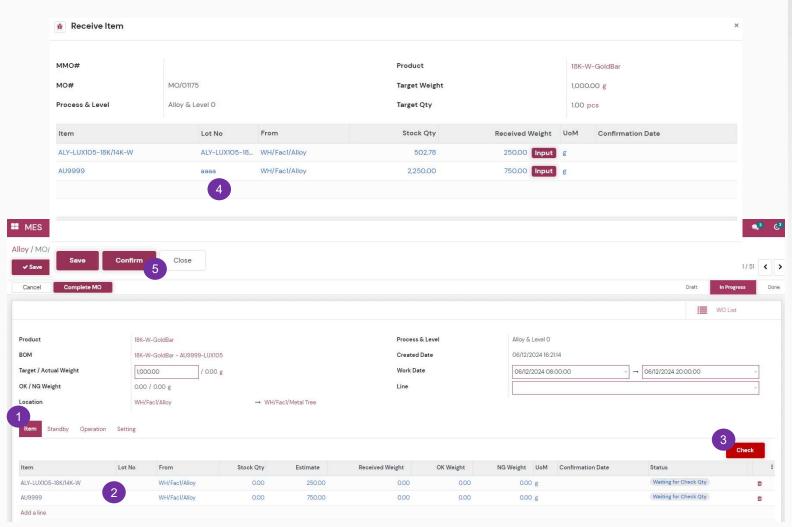


- 1. Enter relevant information:
- _ Product alloy type designation
- _ BOM Designate the BOM version of the relevant alloy
- _ Target / Actual Weight Target / Actual Weight
- _ Work Date Work date
- 2. Confirm by pressing the "Confirm" button.

Pre Manufacturing System

III. Alloy

Enter input materials



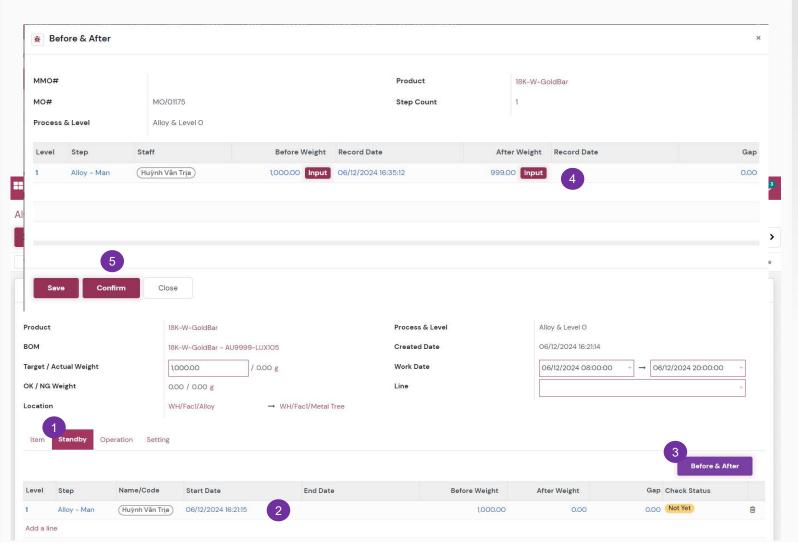


- 1. Proceed in the "Item" tab.
- Display of materials registered in BOM.
- Click the "Check" button to open the incoming material information window.
- 4. Enter relevant information:
- Lot No Lot Code
- Received Weight
- _ Received Qty Quantity received
- 5. Confirm by pressing the "Confirm" button.
- ** The "Estimate" column displays the estimated amount of gold and alloy needed compared to the target weight.

Pre Manufacturing System

III. Alloy

Enter the actual weight before/after the process and the employees performing the process



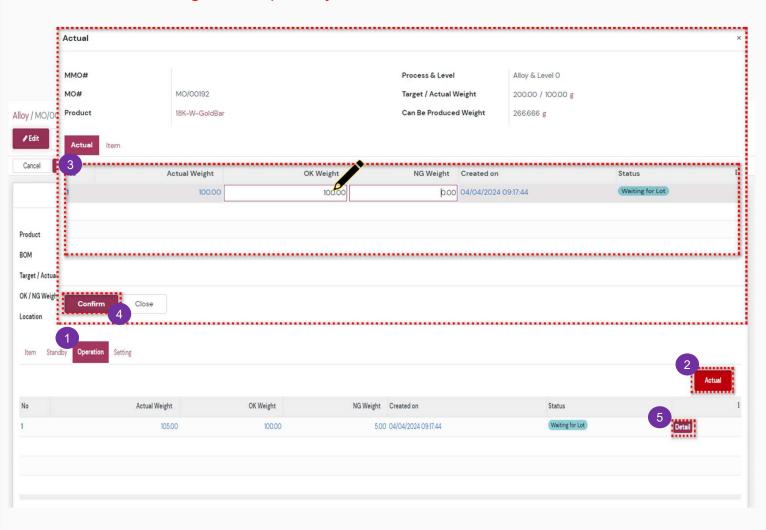


- 1. Proceed in the "Standby" tab.
- Enter relevant information:
- Step detailed process
- Name/Code Name/Code
- Start Date Start Date
- End Date End date
- 3. Click the "Before & After" button to open the weight input window before/after work.
- 4. Enter weight value in conjunction with electronic scale.
- 5. Confirm by pressing the "Confirm" button.

Pre Manufacturing System

III. Alloy

Enter actual weight and quantity after work



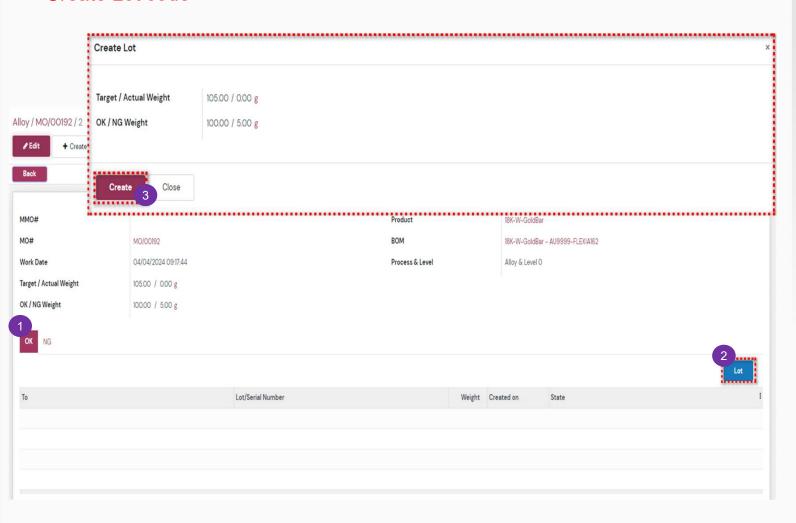


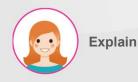
- Proceed in the "Operation" tab. The actual weight and quantity values are automatically displayed as the values entered in the previous step.
- 2. Can be modified by pressing the "Actual" button.
- Actual weight, actual quantity, good quantity, defective quantity can be modified.
- 4. Confirm by pressing the "Confirm" button.
- 5. Issue lot by pressing "Detail" button.

Pre Manufacturing System

III. Alloy

Create Lot code



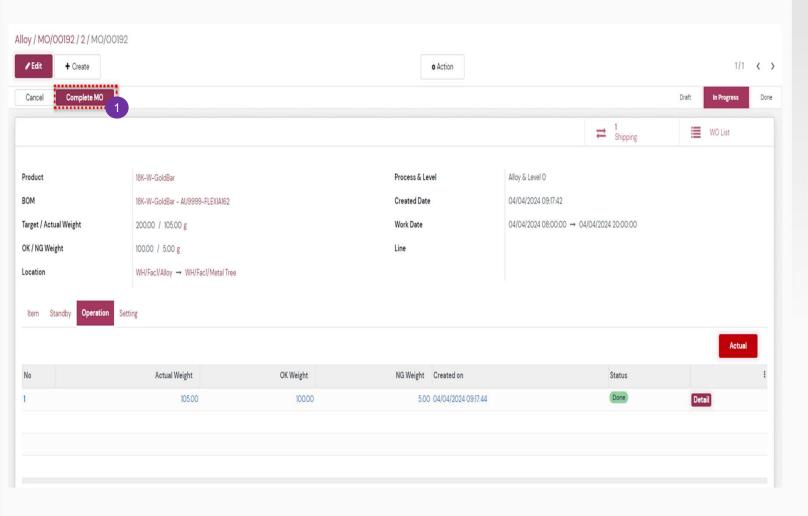


- 1. Proceed from the "OK" tab.
- 2. Click the "Lot" button to open a popup.
- 3. Issue lots by pressing the "Create" button

Pre Manufacturing System

III. Alloy

Alloy Work Order Completed





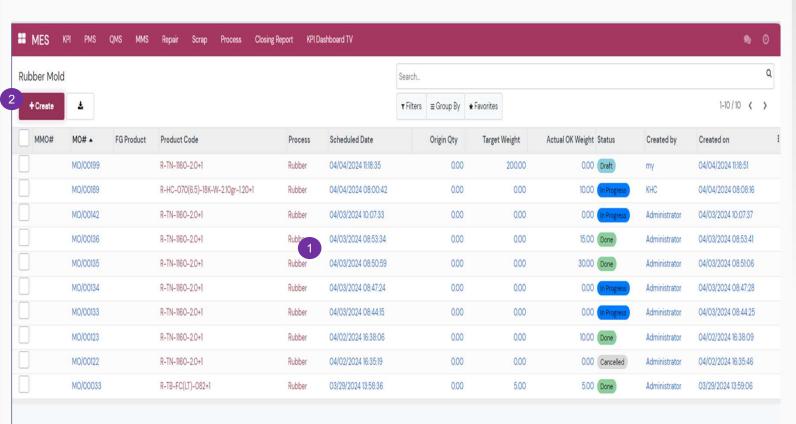
Step by Step:

 Complete the alloy work order by pressing the "Complete MO" button.

Pre Manufacturing System

IV. Rubber Mold

Information on rubber mold production list



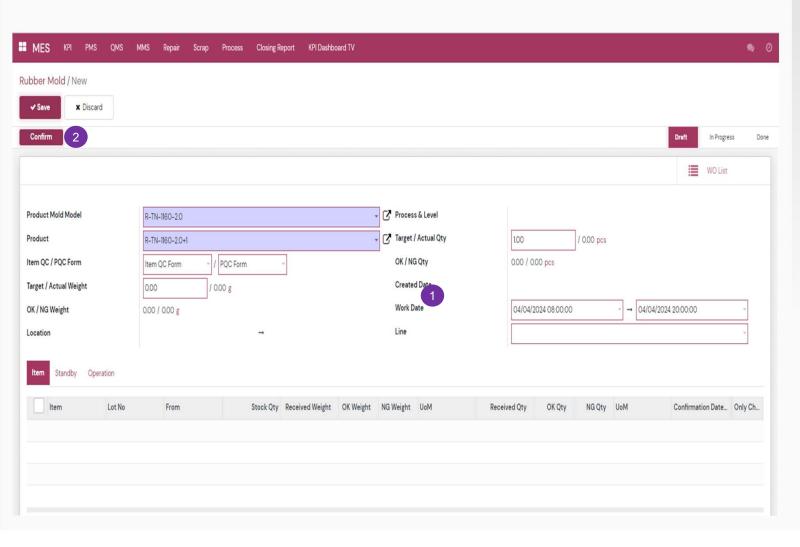


- Information on Rubber Mold Creation Commands
- Press the "Create" button to proceed with creating the rubber mold

Pre Manufacturing System

IV. Rubber Mold

Create rubber mold



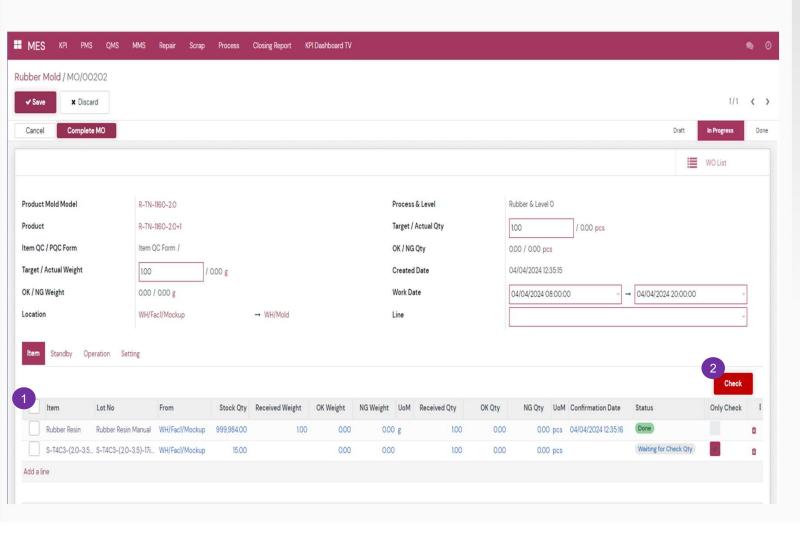


- Enter the information to create the mold.
- 2. Click on the Confirm button to proceed.

Pre Manufacturing System

IV. Rubber Mold

Check the input materials

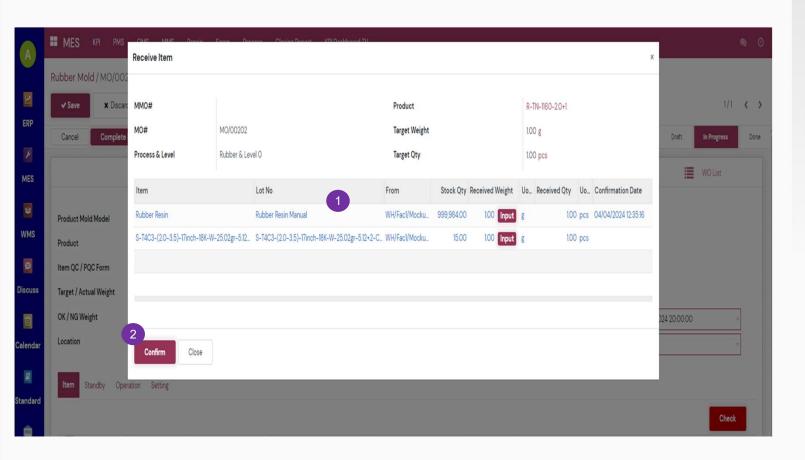




- After confirming, the materials to be checked will be displayed.
- 2. Press the button to proceed with checking the input materials

Pre Manufacturing System

IV. Rubber Mold Check the input materials



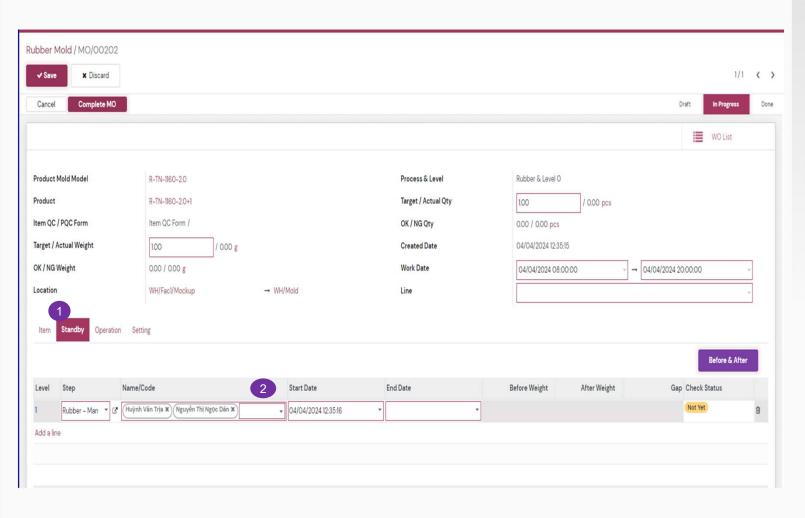


- Input the gram weight when creating the mold
- 2. Click on the "Confirm" button to proceed

Pre Manufacturing System

IV. Rubber Mold

Add rubber mold worker



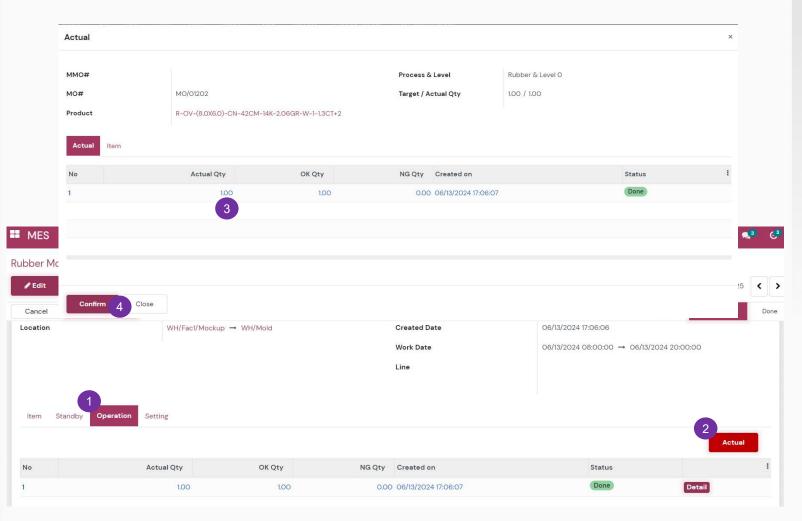


- In the Standby tab, display the mold worker.
- Add information about the mold worker

Pre Manufacturing System

IV. Rubber Mold

Register the actual quantity of the product for which the process has been completed



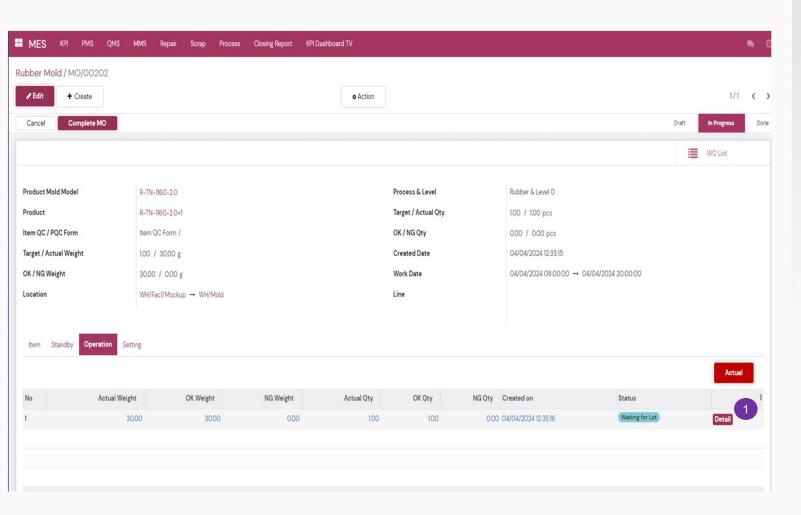


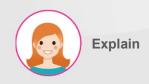
- . Proceed in the "Operation" tab.
- 2. Click the "Actual" button to open the information input window for the item.
- Enter actual production quantity of rubber mold.
- 4. Confirm by pressing the "Confirm" button.

Pre Manufacturing System

IV. Rubber Mold

Create Lot code

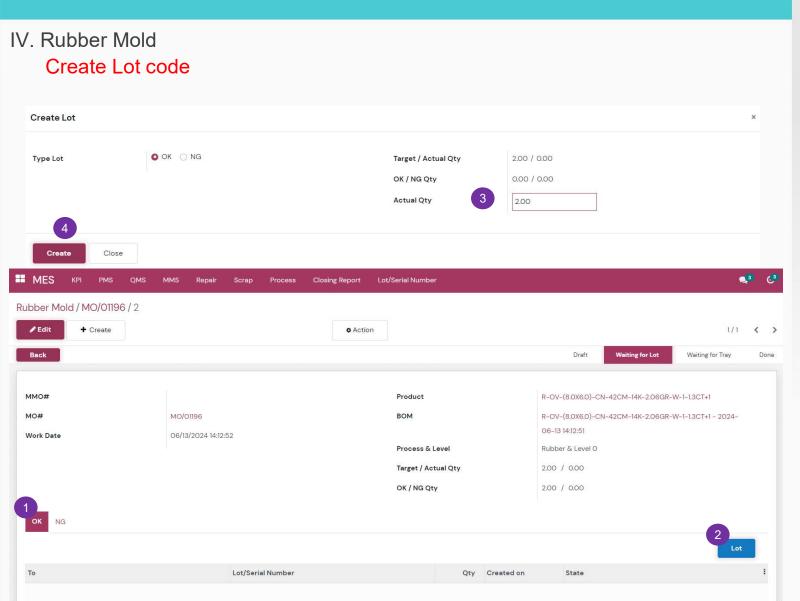


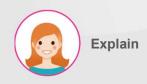


Step by Step:

 Click the "Detail" button to proceed with lot code issuance.

Pre Manufacturing System



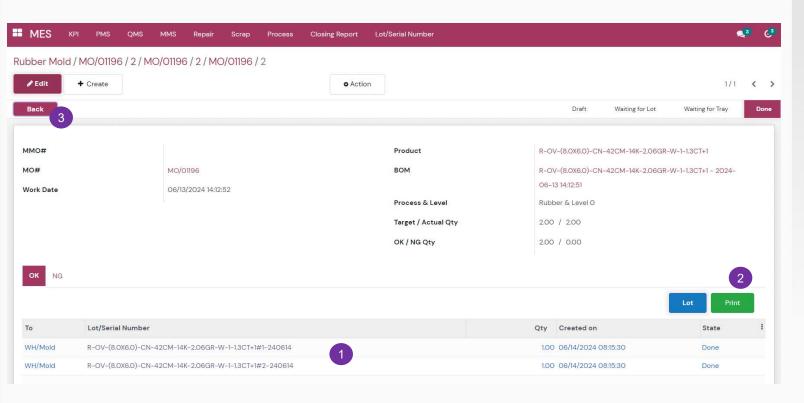


- Proceed on the "OK" tab (the rubber mold is not defective).
- 2. Click the "Lot" button to open a popup.
- Enter the number of lots to be issued according to the number of rubber molds produced.
- 4. Issue lot by pressing "Create" button.

Pre Manufacturing System

IV. Rubber Mold

Issuance of lot code for products whose process has been completed



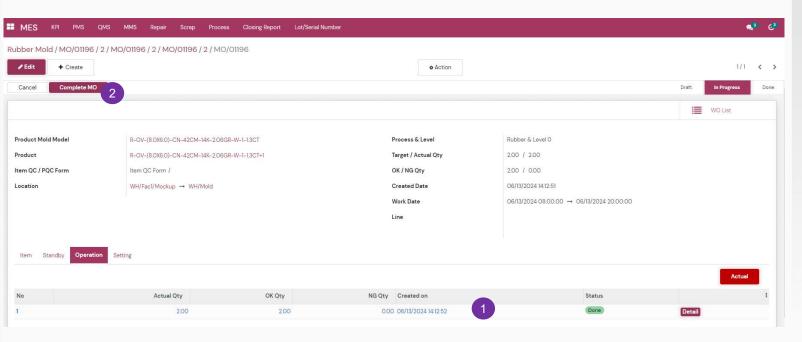


- 1. Display issued lot information.
- 2. QR label printing function.
- 3. Click the "Back" button to go to the main page.

Pre Manufacturing System

IV. Rubber Mold

Rubber mold work instructions completed



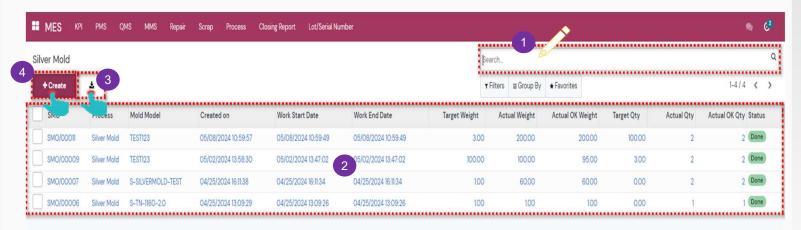


- Information display of rubber molds that have been produced.
- Approve the completion of the rubber mold work order by pressing the "Complete MO" button.

Pre Manufacturing System

V. Silver Mold

Information on silver mold production list



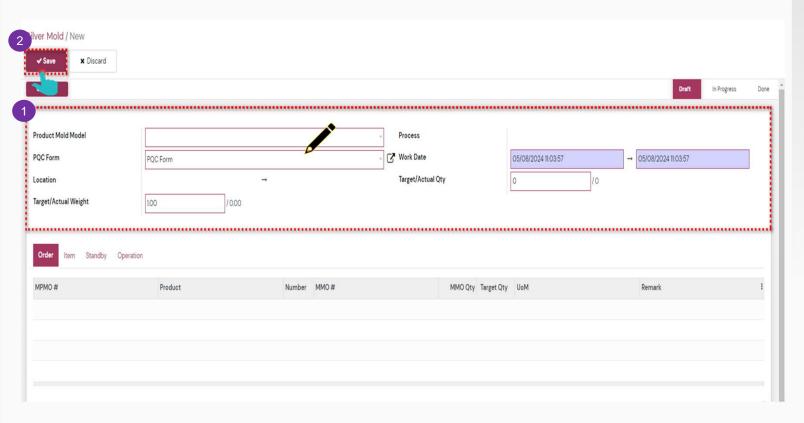


- 1. Search function
- Order information for creating silver molds
- 3. Excel file download function
- Click "Create" to create. See the next slide.

Pre Manufacturing System

V. Silver Mold

Create silver molds





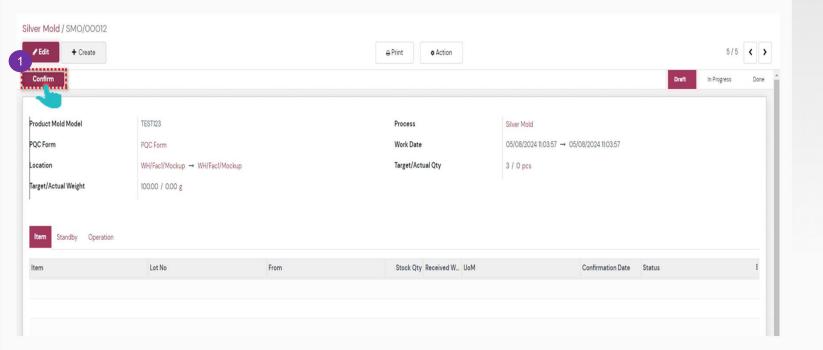
- 1. Fill in the information:
 - Product Mold Model
 - PQC Form
 - Target / Actual Weight
 - Target / Actual Qty
 - Work Date
- 2. Then click "Save"

Pre Manufacturing System

Explain

V. Silver Mold

Confirmation of silver mold production

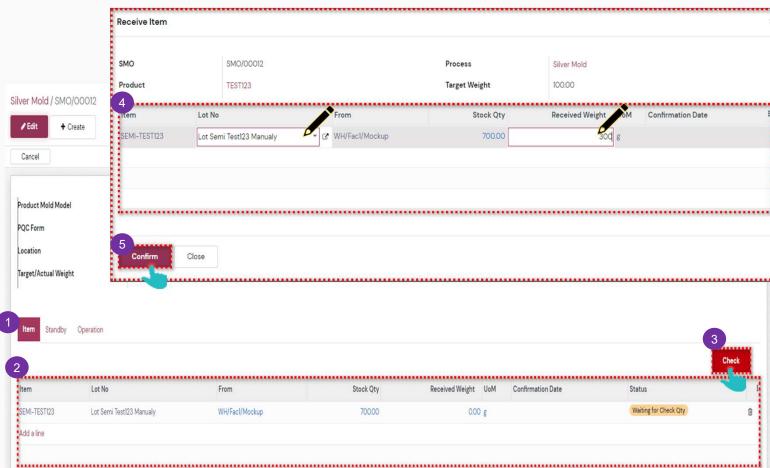


Step by step:

1. Then click "Confirm" to apply.

Pre Manufacturing System

V. Silver Mold Add input item





Step by step:

- The "Item" tab contains information about the input list to use
- Information on the list of inputs used for silver mold production
- 3. Click "Check" to add lots and enter input quantity and weight
- 4. Fill in the information:

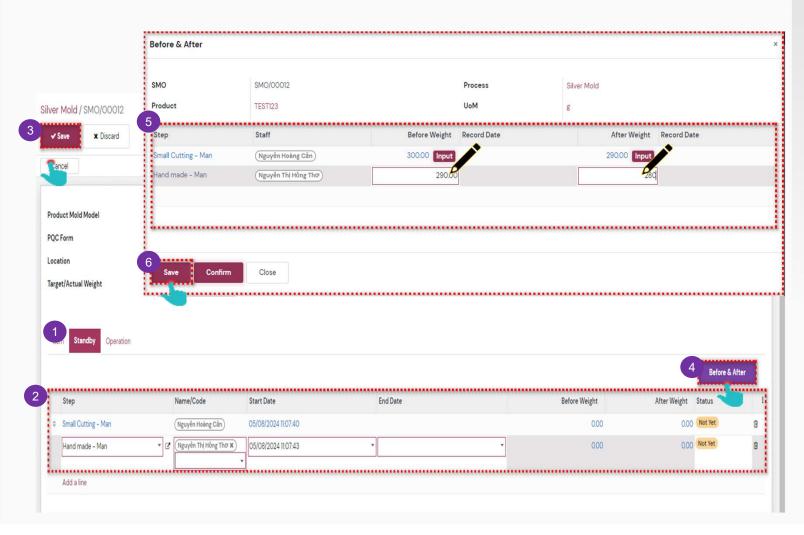
5.

- Lot No
- Received Weight
- Then click "Confirm".

Pre Manufacturing System

V. Silver Mold

More workers make molds and check weights



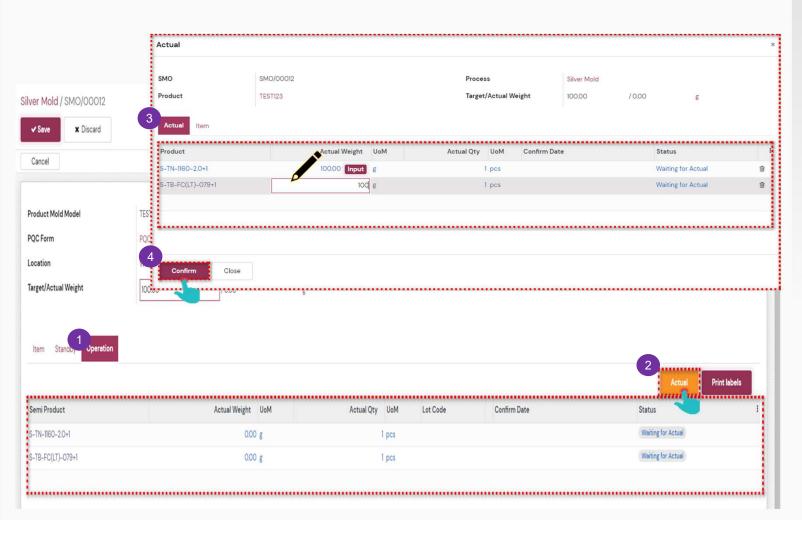


- 1. At the "Standby" tab
- 2. Fill in the information:
 - Step: Bước
 - Name/Code
 - Start Date
 - End Date
- 3. Then click "Save" to save
- 4. Click the "Before & After" button to proceed with filling in weight information
- Fill in Before Weight and After Weight information.
- 6. Then click "Save" to confirm.

Pre Manufacturing System

V. Silver Mold

Create actual weights for silver molds



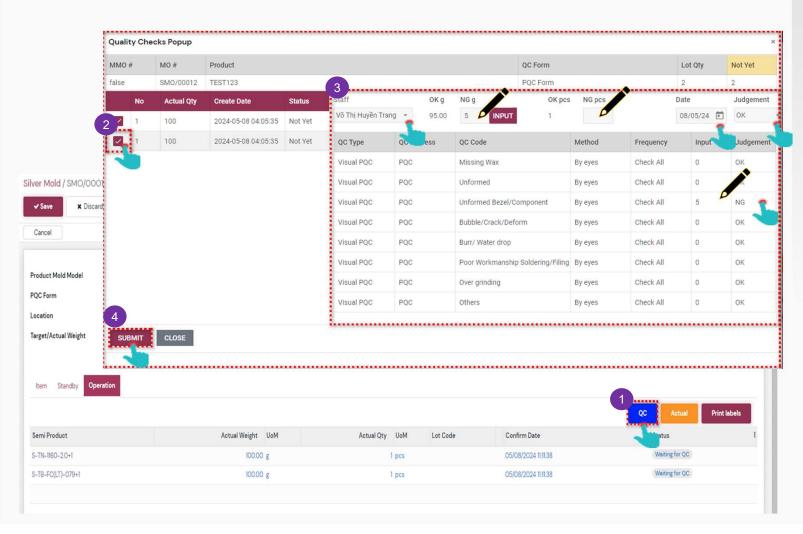


- 1. At the "Operation" tab.
- 2. Click "Actual" to add weights
- 3. Fill in information Actual Weight
- 4. Then click "Confirm"

Pre Manufacturing System

V. Silver Mold

Check PQC output



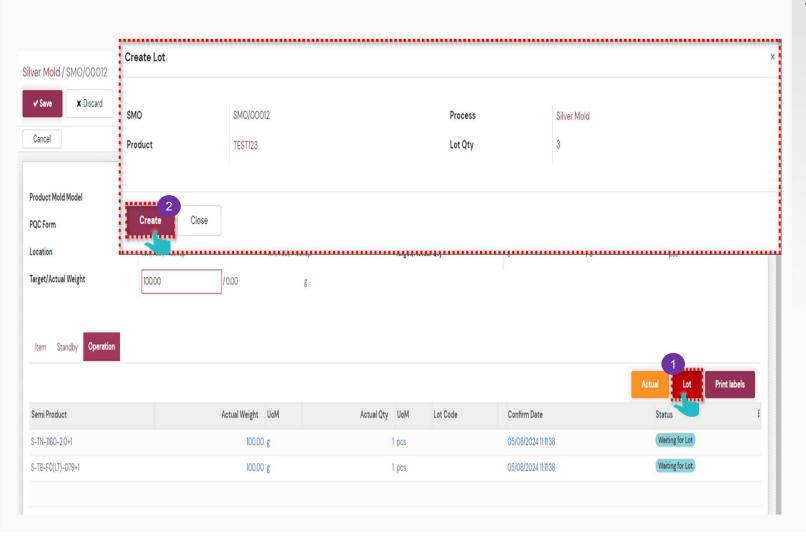


- Click the "QC" button to conduct the check
- 2. Select 1 line in the list
- Fill in the result information after checking.
- 4. Then click "Submit" to confirm

Pre Manufacturing System

V. Silver Mold

Create output lots



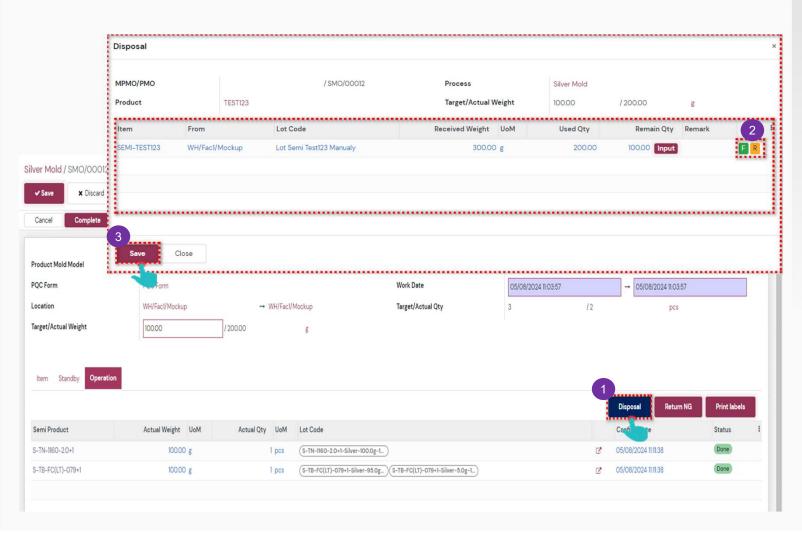


- 1. Click "Lot" to create
- 2. Select "Create" to confirm creation.

Pre Manufacturing System

V. Silver Mold

Return silver remaining in production and confirm production completion



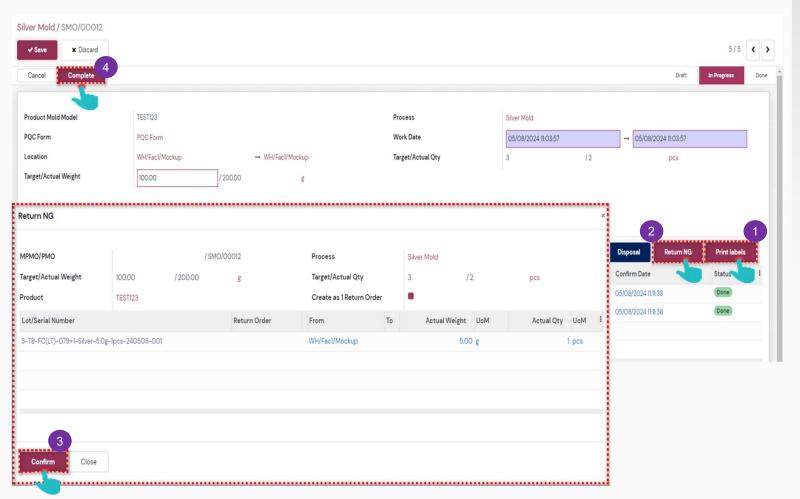


- Click "Disposal" to return excess silver in production
- Click "F" to confirm completion of full use, "R" to return when remaining used.
- 3. Then click "Save"

Pre Manufacturing System

V. Silver Mold

Transfer the NG lot of silver molds to the repair warehouse





- 1. Click "Print labels" to print the lot
- 2. Click "Return NG" to create a return form to the repair warehouse
- 3. Click "Confirm" to confirm the return
- Click "Complete" to confirm completion of the silver mold manufacturing process.



Thank you for using

For Smart Factory

