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SIF 402 WORKING INSTRUCTION

**WP5 T5.2.1 TRAINING AND DEMONSTRATION MODULES
DEVELOPED**

Version 1

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1 Power on

1.1 Check

- Remove all product from conveyor
- Remove all product from working space
- Connect to the compressor
- Put the emergency stop buttons to default position
- Switch off all electrical switch
- Check the connection with the main power

1.2 Power system

Task



Rotate the power switch to position 1

1.3 Air system

Task



Rotate the station air switch to position sup



After the switch on (approximately 70 seconds) the machine make a self test and calibration. If the station is ready, the HMI show it.



2 Power off

2.1 Deactivate air system

Task



Rotate the main switch to position sup



2.2 Eletrical system switching off

Task



Rotate the eletrical switch to position 0

3 Machine operation

The machine can work manual and automatic mode. In manual mode the machine work standalone, it is not connected to the other machines. In automatic mode the SIFMES software control the entire production line.

- The raw material filling only allowed in stopped machine!
- Do not mix the colors!

3.1 Ball fill



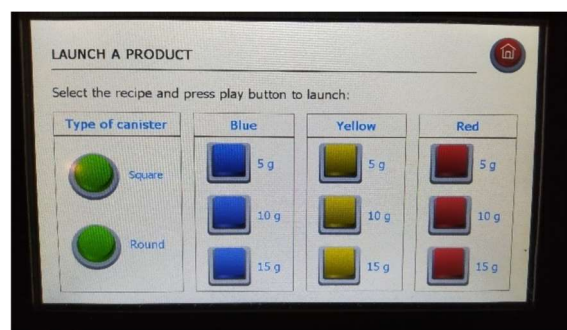
- Remove the lid
- Put the corresponding balls to the container
- Replace the lid



3.2 Manual operation

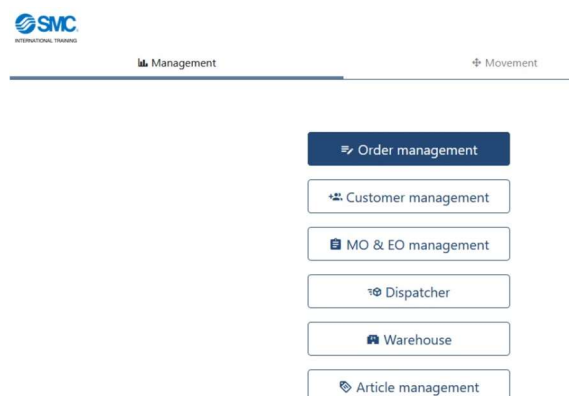
In manual mode the the choices are:

- Square or round container
- Blue / yellow / red balls with different quantity and different composition



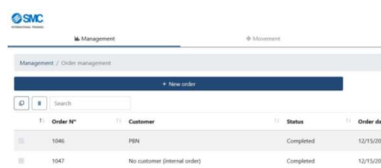
4 SIF Mes

In integrated mode the production line can produce the ordered product. All cell should be swiched on, and in resetted state. To order, open the SIFMES software in the browser:



4.1 Order management

In the Management -> Order management we can create a customer order with a New order button. To select the Stock order option the product will go to the warehouse, and will not be assigned with customer. If it is not selected, it will go to delivery.

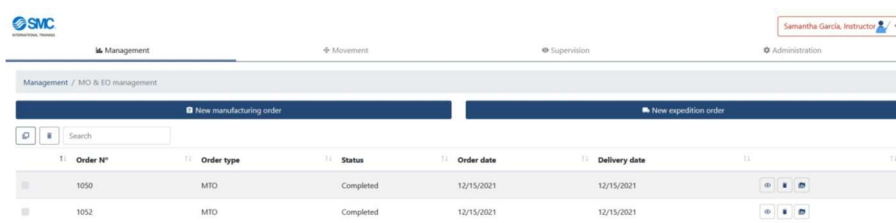


The screenshot shows the 'Management / Order management' page. It features a 'New order' button and a search bar. Below is a table with columns: Order N°, Customer, Status, and Order date.

Order N°	Customer	Status	Order date
1046	FEN	Completed	12/15/2021
1047	No customer (internal order)	Completed	12/15/2021

4.2 EO&MO management

In this menu we have two options. The first is a New manufacturing order, where we can produce a previous production order. The second option is the New expedition order, where we can deliver a product from a warehouse. We can choose one of these two options, and below the Order lines we should choose the products and push the Add and the Save button.



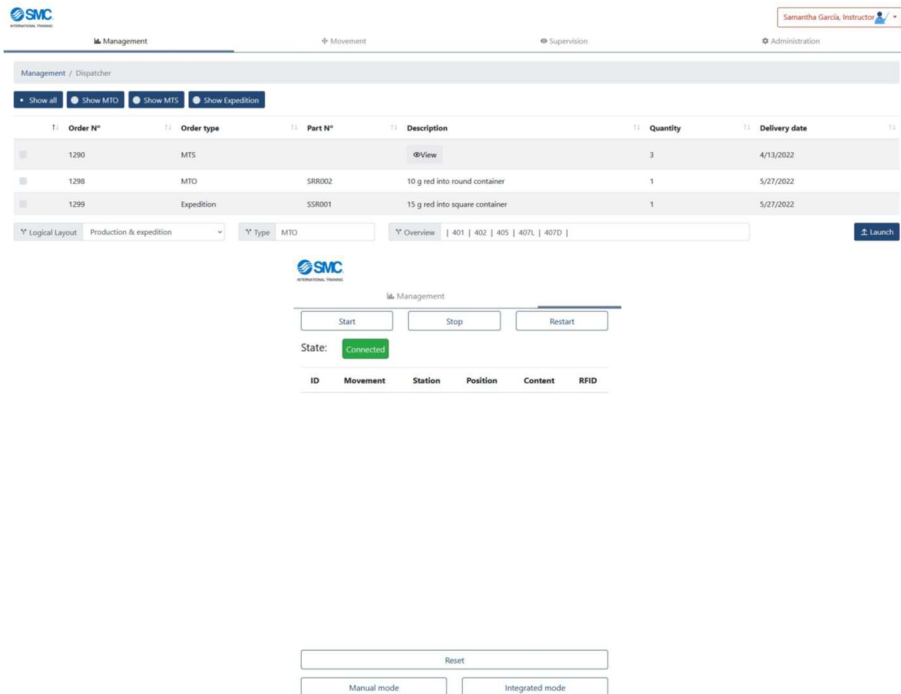
The screenshot shows the 'Management / MO & EO management' page. It features buttons for 'New manufacturing order' and 'New expedition order'. Below is a table with columns: Order N°, Order type, Status, Order date, and Delivery date.

Order N°	Order type	Status	Order date	Delivery date
1050	MTO	Completed	12/15/2021	12/15/2021
1052	MTO	Completed	12/15/2021	12/15/2021

4.3 Dispatchet

In the Management -> Dispatcher menu we can start the production. We can choose the mode in the upper part (Show MTO - show the productions for delivery, Show MTS - show the productions for warehouse, Show Expedition - show the delivery for warehouse), then we can choose the lines what we want to produce, and push the Launch button. Then in the Movement - System status menu push the Integrated mode button.





The screenshot shows the SMC Management interface. At the top, there are tabs for Management, Movement, Supervision, and Administration. The Management tab is active, showing a sub-tab for Management / Dispatcher. Below this, there are buttons for Show all, Show MTO, Show MTS, and Show Expedition. A table lists three orders:

Order N°	Order type	Part N°	Description	Quantity	Delivery date
1290	MTS		View	3	4/13/2022
1298	MTO	SR8002	10 g red into round container	1	5/27/2022
1299	Expedition	SR8001	15 g red into square container	1	5/27/2022

Below the table, there are filters for Logical Layout (Production & expedition), Type (MTO), and Overview (401, 402, 405, 407L, 407D). A Launch button is also present. At the bottom, there are Start, Stop, and Restart buttons, a State indicator (Connected), and a table with columns ID, Movement, Station, Position, Content, and RFID. Below this, there are buttons for Reset, Manual mode, and Integrated mode.

5 Documentation

More information

- Operation Manula SIF-400 Integrated mode
- Operation Manula SIF-400 Manual mode
- Operation Manula SIF-400 Software manual

