# **FAT - Multi Processing Station with Oven**

#### **Test items:**

### When in resetting State

1 all equipment modules are resetted, the state <u>Idle</u> is activated when all equipments are succesfully initialized

# When in execute State

- 2 Before entering the execute state the oven is started and waits for a piece.
- 3 if a piece is placed at the stations's input,
  - a The oven starts its cycle
  - b The piece is moved from the oven equipment to turntable equipment by the transport equipment
  - c The turntable moves to the saw equipment
  - d The saw starts it cycle
  - e The turntable moves to the belt
  - f The turntable ejects the piece onto the belt
  - g The belt moves the piece to the output of the station
  - h The next state (completed) is activated

#### **Errors**

- 4 The oven feeder motor is activated for too long
- 5 The transport motor is activated for too long
- 6 The turntable motor is activated for too long
- 7 The conveyer is activated for too long

Pre-conditions		
1. The current active step is resetting		
Test steps		
1. None		
1. None		
Charle for fooder already in front hefore eneming door		
Check for feeder already in front before opening door		
Expected result		
All the Equipment modules are resetted. When:		
EM_Oven		
EM_Transport		
EM_Turntable		
Are succesfully initialized the next state ( <u>idle</u> ) is activated.		
, (,		
<b>Test #2</b> Before entering the execute state the oven is started and waits for a piece.		
<b>Test #2</b> Before entering the execute state the oven is started and waits for a piece.		
Dec acarditions		
Pre-conditions		
1. The current active step is <u>Idle</u>		
Test steps		
1. Set CntrlCmd to <b>Start</b>		
Add statusbit for peicePlaced		
Add Statusbit for percer faced		
Expected result		
In the <u>Starting</u> state the xStart input of EM_Oven equipment is set to TRUE, the next state ( <u>Execute</u> ) is activated		
immediatly after.		

all equipment modules are resetted, the state Idle is activated when all equipments are succesfully initialized

Test #1

# **Test #2** if a piece is placed at the stations's input,

Pre-conditions
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Test 1 has been concluded (The station has been started)

# Test steps

1. NONE

# **Expected result**

Al steps as described in 2.a - 2.h should be executed

# **Test #3** The oven feeder motor is activated for too long

# Pre-conditions

- 1. The current active step is **Execute**
- 2. No piece has been placed at the input
- 3. Power is removed from feeder motor:



# Test steps

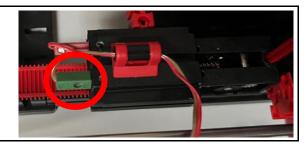
1. Place piece on feeder table

# **Expected result**

The feeder table will never reach its destination. After X seconds an error should have generated.

### **Pre-conditions**

- 1. The current active step is **Execute**
- 2. No piece has been placed at the input
- 3. Power is removed from transport motor:



# Test steps

1. Place piece on feeder table

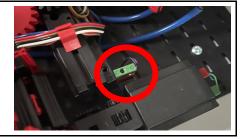
# **Expected result**

The transport module will never reach its destination. After X seconds an error should have generated.

# **Test #6** The turntable motor is activated for too long

# **Pre-conditions**

- 1. The current active step is **Execute**
- 2. No piece has been placed at the input
- 3. Power is removed from transport motor:



# Test steps

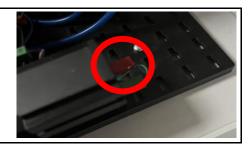
1. Place piece on feeder table

## **Expected result**

The turntable module will never reach its destination. After X seconds an error should have generated.

# Pre-conditions

- 1. The current active step is **Execute**
- 2. No piece has been placed at the input
- 3. Power is removed from transport motor:



Test	steps

1. Place piece on feeder table

# **Expected result**

The piece will never pass the sensor because the belt is not moving. After X seconds an error should have generated.