HOW TO ROTATE BEFORE TRAVERSE WHEN HOMING

EPIK / UNIK





CAUTION

Always back up the files first before you editing them

1. After the modification, you must run test drive at low velocity.

2. This modification may cause accident or damage. Always be cautious.

If you have any questions, email us at sales@hyrobotics.com

The order of operation when Home button is pressed.

Default Setting

- 1. Robot arm goes up (Z axis)
- 2. Robot arm goes forward/backward (Y Axis)
- 3. EOAT Rotate
- 4. Traverse back to home position (X axis)
- 5. EOAT Rotate Return

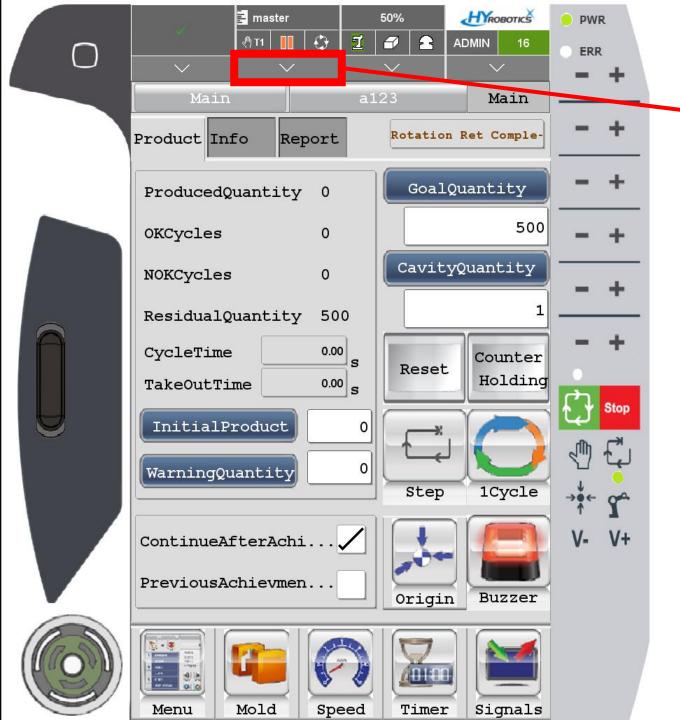
The order of operation Let's change to EOAT Rotation Return only once before Traverse

Detauit Setting

- 1. Robot arm goes up (Z axis)
- 2. Robot arm goes forward/backward (Y Axis)
- 3. EOAT Rotate Return
- 4. Traverse back to home position (X axis)



Log in as Level 16, Administrator



Press here



Press here



You will see your mold project files



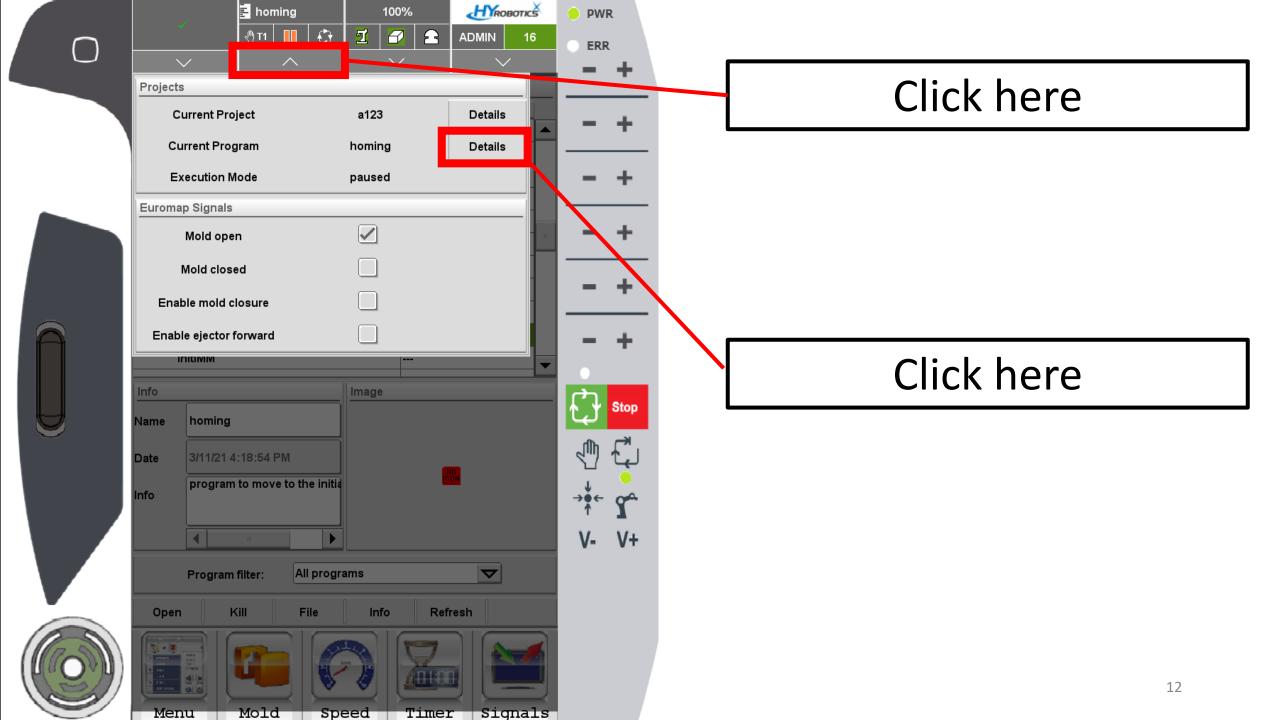
Press + button and Expand currently loaded mold project file

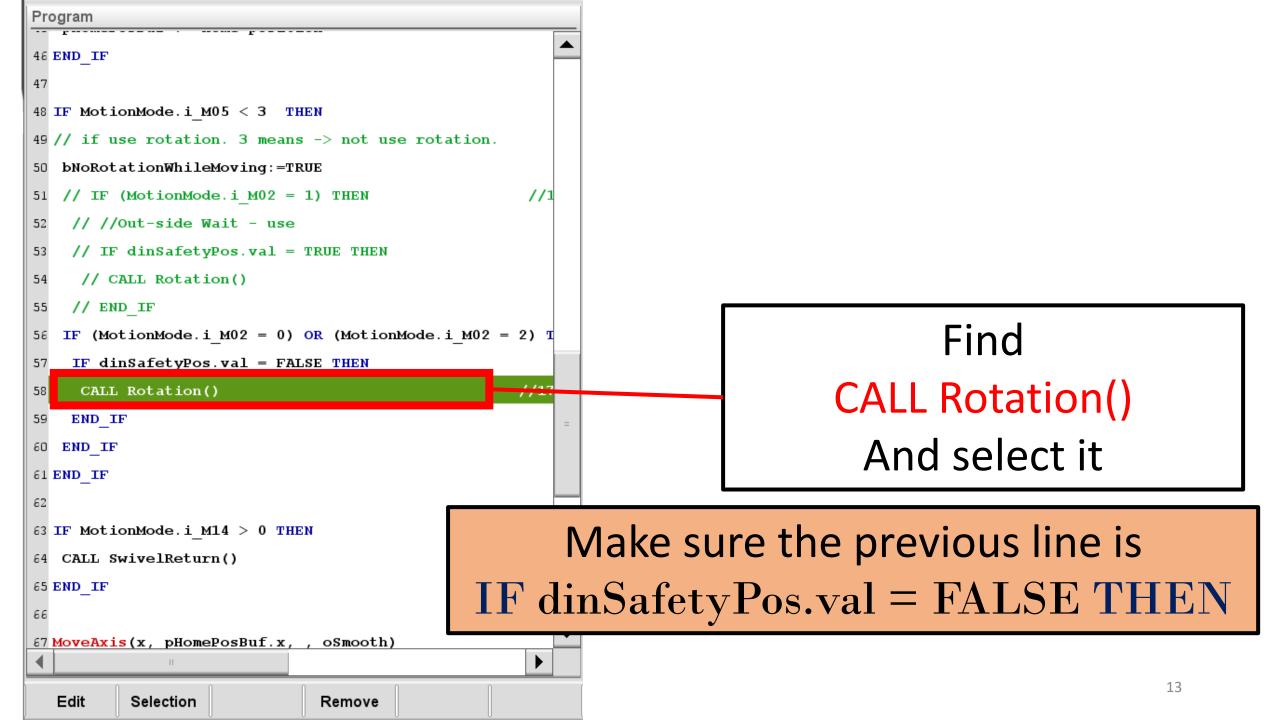


Find homing And OPEN it



Confirm homing is loaded





```
Program
46 END IF
47
48 IF MotionMode.i M05 < 3 THEN
49 // if use rotation. 3 means -> not use rotation.
50 bNoRotationWhileMoving:=TRUE
  // IF (MotionMode.i M02 = 1) THEN
    // //Out-side Wait - use
    // IF dinSafetyPos.val = TRUE THEN
     // CALL Rotation()
54
    // END IF
  IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 2) T
    IF dinSafetyPos.val = FALSE THEN
                                                       //17
 Keep editor in front
 Show Commands
  Graphical editor
                  M14 > 0 THEN
    Subroutine
                  urn()
     Format
    Deactivate
                  mePosвuf.х,
                                oSmooth)
      Set PC
          Selection
                                Remove
```

Click Edit and Deactivate

```
Program
46 END IF
48 IF MotionMode.i M05 < 3 THEN
49 // if use rotation. 3 means -> not use rotation.
50 bNoRotationWhileMoving:=TRUE
  // IF (MotionMode.i M02 = 1) THEN
    // //Out-side Wait - use
    // IF dinSafetyPos.val = TRUE THEN
     // CALL Rotation()
    // END IF
  IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 2) T
57 IF dinSafetvPos.val = FALSE THEN
   ##CALL Rotation()
    END IF
60 END IF
61 END IF
63 IF MotionMode.i M14 > 0 THEN
64 CALL SwivelReturn()
65 END IF
67 MoveAxis(x, pHomePosBuf.x, , oSmooth)
  Edit
          Selection
                               Remove
```

Check it is deactivated ##CALL Rotation

means
the line is deactivated

```
Program
60 END IF
61 END IF
63 IF MotionMode.i M14 > 0 THEN
64 CALL SwivelReturn()
65 END IF
67 MoveAxis(x, pHomePosBuf.x, , oSmooth)
68 HYWaitMoveIsFinished()
70 //IF MotionMode.i M05 < 3 THEN // if use rotation. 3 \pi
71 IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 1) TH
  CALL RotationReturn()
73 ELSIF MotionMode.i M02 = 2 THEN
74 IF ((MotionMode.i M00 = 0) OR (MotionMode.i M00 = 1))
    CALL Rotation()
76 ELSIF (MotionMode.i M00 = 2) OR (MotionMode.i M05 = 3
    CALL RotationReturn()
  END IF
```

Find the other CALL Rotation()
And select it

Make sure the previous line is

IF ((MotionMode.i_M00 = 0) OR (MotionMode.i_M00 = 1))

East Selection

Kemove

```
Program
60 END IF
61 END_IF
63 IF MotionMode.i M14 > 0 THEN
64 CALL SwivelReturn()
65 END IF
66
67 MoveAxis(x, pHomePosBuf.x, , oSmooth)
68 HYWaitMoveIsFinished()
69
70 //IF MotionMode.i M05 < 3 THEN // if use rotation. 3 π
71 IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 1) TH
72 CALL RotationReturn()
73 ELSIF MotionMode.i M02 = 2 THEN
                   e.i M00 = 0) OR (MotionMode.i M00 = 1)
Keep editor in front
 Show Commands
                 ode.i M00 = 2) OR (MotionMode.i M05
                  Return()
  Graphical editor
     Format
    Deactivate
                       comooth)
      Set PC
          Selection
                                 Remove
```

Click Edit and Deactivate

Check ##

```
Program
64 CALL SwivelReturn()
65 END IF
66
67 MoveAxis(x, pHomePosBuf.x, , oSmooth)
68 HYWaitMoveIsFinished()
70 //IF MotionMode.i M05 < 3 THEN // if use rotation. 3 \pi
71 IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 1) TH
   CALL RotationReturn()
73 ELSIF MotionMode.i_{M}02 = 2 THEN
   IF ((MotionMode.i_M00 = 0) OR (MotionMode.i M00 = 1))
    CALL Rotation()
76 ELSIF (MotionMode.i M00 = 2) OR (MotionMode.i M05 = 3
    CALL RotationReturn()
78 END IF
79 END_IF
81 Move (pHomePosBuf, , oSmooth)
                                            //180809 delet
82 //CALL ReadCurPos()
83 CALL InitIOs()
84
```

Remove

Edit

Selection

Find any CALL RotationReturn() And select it

```
Program
64 CALL SwivelReturn()
65 END IF
66
67 MoveAxis(x, pHomePosBuf.x, , oSmooth)
68 HYWaitMoveIsFinished()
70 //IF MotionMode.i M05 < 3 THEN // if use rotation. 3 m
71 IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 1) TH
72 CALL RotationReturn()
73 ELSIF MotionMode.i M02 = 2 THEN
74 IF ((MotionMode.i M00 = 0) OR (MotionMode.i M00 = 1))
    CALL Rotation()
76 ELSIF (MotionMode.i M00 = 2) OR (MotionMode.i M05 = 3
   CALL RotationReturn()
78 END IF
79 END IF
80
81 Move (pH
                            th)
                Modify
82 //CALL
                                               80809_delet
               Select all
83 CALL In
84
                 Cut
                Сору
                                                        Edit
           Selection
                                Remove
```

Click Selection and Copy

```
Program
46 END IF
48 IF MotionMode.i M05 < 3 THEN
49 // if use rotation. 3 means -> not use rotation.
   bNoRotationWhileMoving:=TRUE
   // IF (MotionMode.i M02 = 1) THEN
                                                       //1
    // //Out-side Wait - use
    // IF dinSafetyPos.val = TRUE THEN
     // CALL Rotation()
    // END IF
   IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 2) T
    IF dinSafetyPos.val = FALSE THEN
     ##CALL Rotation()
    END IF
   END IF
61 END IF
63 IF MotionMode.i M14 > 0 THEN
  CALL SwivelReturn()
65 END_IF
67 MoveAxis(x, pHomePosBuf.x, , oSmooth)
  Edit
           Selection
                                Remove
```

Find the FIRST ##CALL Rotation() Which we deactivated earlier in page 13 - 14

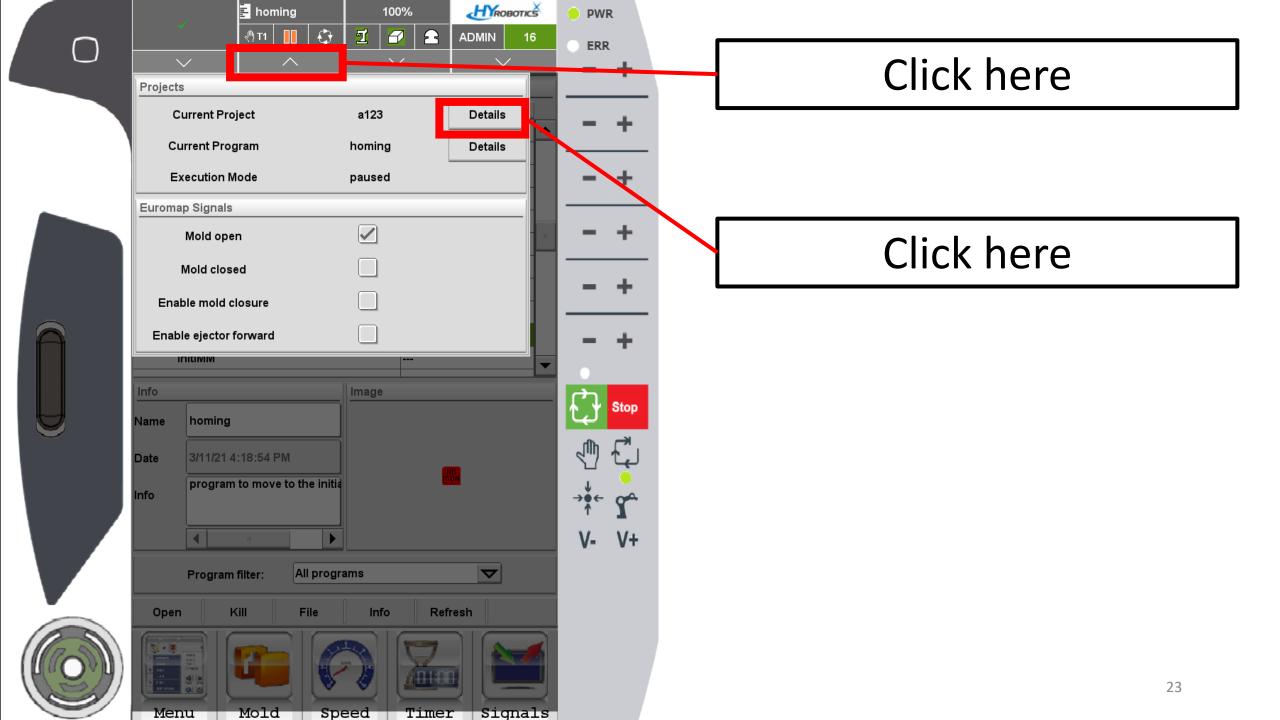
Make sure it is not the second one

```
Program
46 END IF
48 IF MotionMode.i M05 < 3 THEN
49 // if use rotation. 3 means -> not use rotation.
50 bNoRotationWhileMoving:=TRUE
  // IF (MotionMode.i M02 = 1) THEN
    // //Out-side Wait - use
    // IF dinSafetyPos.val = TRUE THEN
     // CALL Rotation()
    // END IF
  IF (MotionMode.i M02 = 0) OR (MotionMode.i M02 = 2) T
    IF dinSafetyPos.val = FALSE THEN
     ##CALL Rotation()
    END IF
60 END IF
61 END IF
                Modify
63 IF Moti
                            HEN
               Select all
64 CALL S
65 END_IF
                 Cut
                Сору
                                 Smooth)
67 MoveAxi
68 HVWaitM
                Paste
  Edit
           Selection
                                Remove
```

Click Selection and Paste

```
Program
46 END IF
47
48 IF MotionMode.i_M05 < 3 THEN
49 // if use rotation. 3 means -> not use rotation.
   bNoRotationWhileMoving:=TRUE
   // IF (MotionMode.i M02 = 1) THEN
    // //Out-side Wait - use
    // IF dinSafetyPos.val = TRUE THEN
     // CALL Rotation()
    // END IF
   IF (MotionMode.i_M02 = 0) OR (MotionMode.i_M02 = 2) 
    IF dinSafetyPos.val = FALSE THEN
     ##CALL Rotation()
     CALL RotationReturn()
    END IF
  END IF
62 END IF
64 IF MotionMode.i M14 > 0 THEN
  CALL SwivelReturn()
66 END IF
68 Move Avis/v nHomeDos Ruf v
  Edit
           Selection
                       Undo
                                Remove
```

Check Call RotationReturn() is preceded by ##CALL Rotation





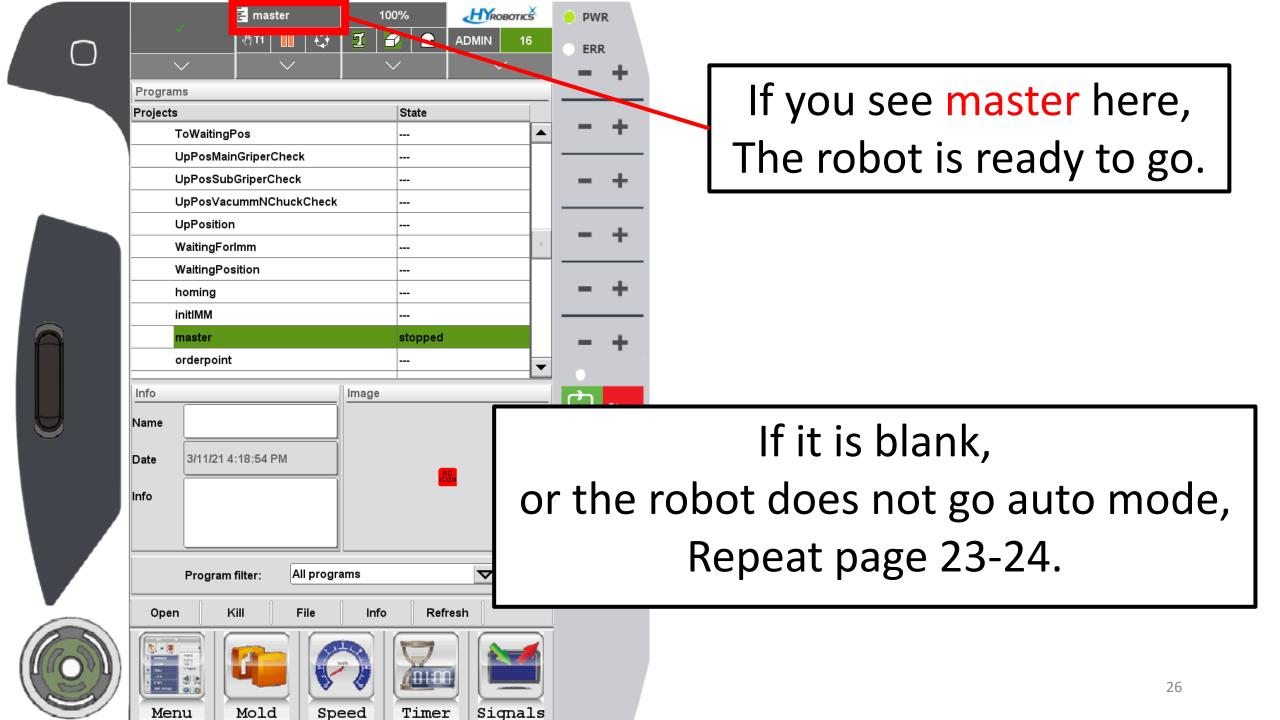
Kill currently opened homing



1. Find master under current mold project

2. Kill currently opened master

3. Open master again



The order of operation when Home button is pressed.

New Setting

- 1. Robot arm goes up (Z axis)
- 2. Robot arm goes forward/backward (Y Axis)
- 3. EOAT Rotate Return
- 4. Traverse back to home position (X axis)

CAUTION

Always back up the files first before you editing them

1. After the modification, you must run test drive at low velocity.

2. This modification may cause accident or damage. Always be cautious.

If you have any questions, email us at sales@hyrobotics.com

