

iNexBot

Special Process



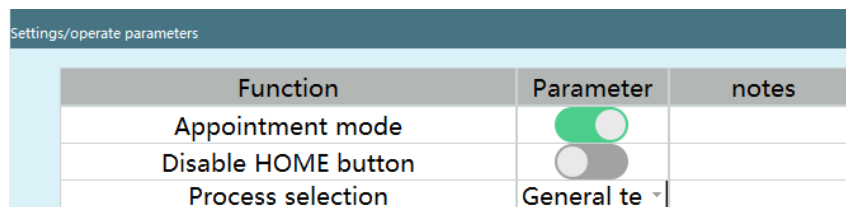
Catalogue

Special Process	3
> Interface	3
"General process" mode	3
Point modification	5
"Special process" mode	6
Programming	7
Writing XML files	9

Special Process

> Interface

There are five options under "Settings" - "Operation parameters" - "Process selection": General process/Special process/Palletizing process/Welding process/Cutting process, select the "General process" from them



Settings/operate parameters

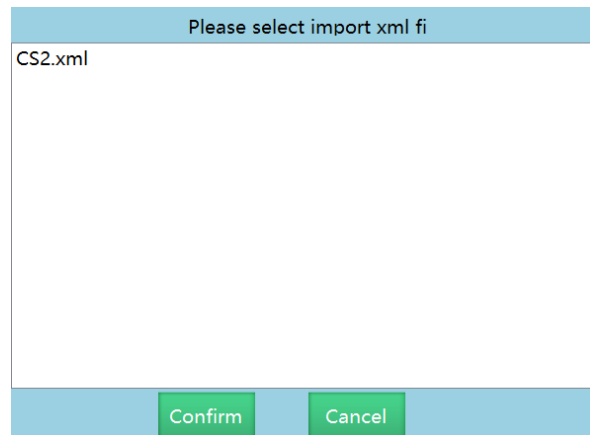
Function	Parameter	notes
Appointment mode	<input checked="" type="checkbox"/>	
Disable HOME button	<input type="checkbox"/>	
Process selection	General te ▾	

"General process" mode

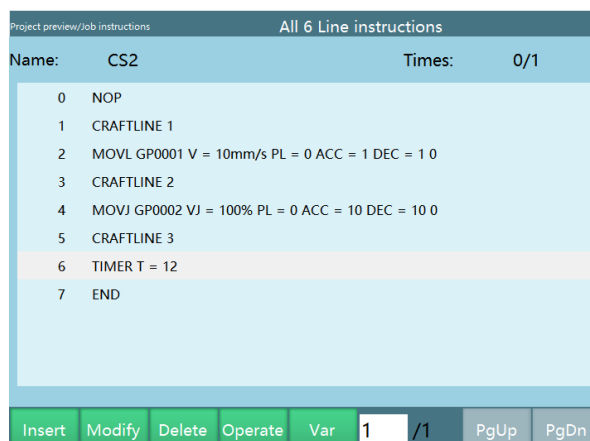
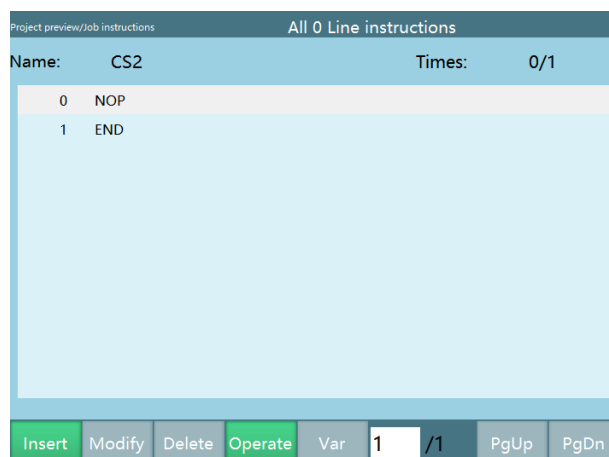
Click "Process" - "Special process"

Click "Import" (the .xml file should be placed in the importxml folder of the U disk), select the file to be imported, and click "OK"





Select the file you want to open, click "Open", open it and pay attention to the number of procedures in the XXX.xml file, then switch to general mode, open the same named program and insert the CRAFTLINE instruction (the number of procedures in the XXX.xml file = the number of inserted CRAFTLINE instructions, corresponding to each other)



Notes

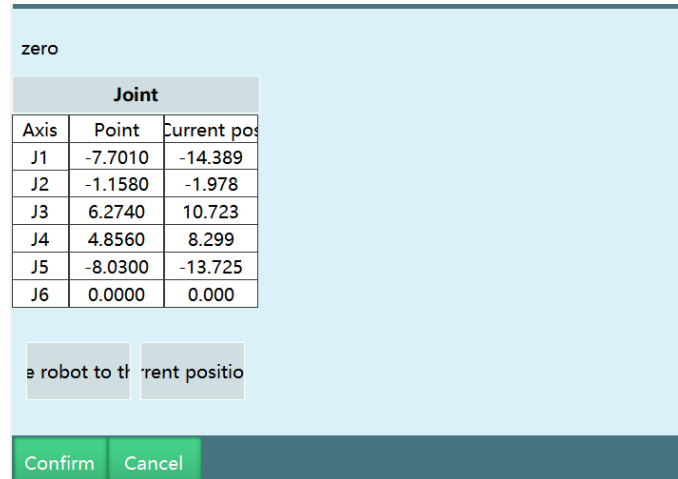


- Before importing the file, you should create a new program with the same prefix name as the imported XXX.xml in general mode

Point modification

Select the instruction that needs to be modified in the "Special process" interface and click "Modify" (if it is not modifiable, then clicking on "Modify" is invalid; if it contains modifiable items, click "Modify" to enter the modification interface)

Click on "OK", all changes will be saved; click on "Cancel", all changes will not be saved.



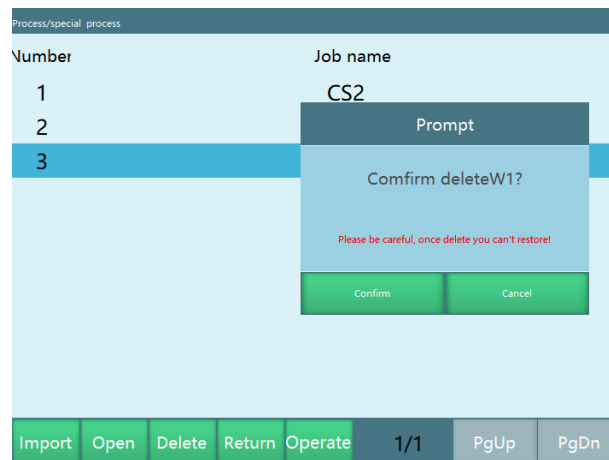
zero

Joint		
Axis	Point	Current pos
J1	-7.7010	-14.389
J2	-1.1580	-1.978
J3	6.2740	10.723
J4	4.8560	8.299
J5	-8.0300	-13.725
J6	0.0000	0.000

Return robot to the current position

Confirm Cancel

If you want to delete a file, select the file you want to delete and click "Delete"

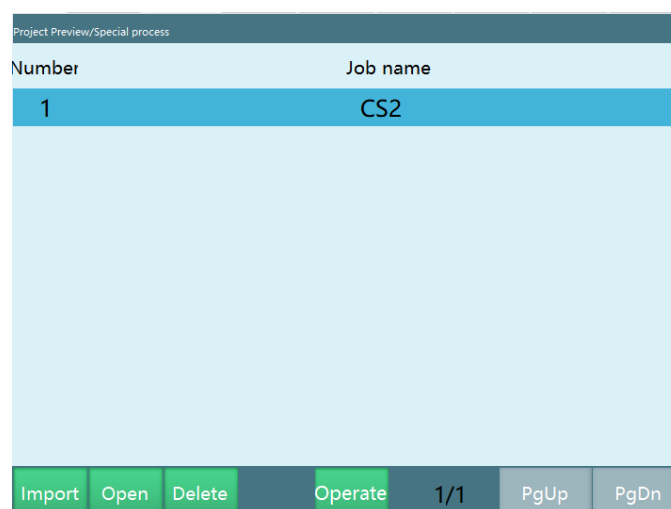


"Special process" mode

Settings/operate parameters		
Function	Parameter	notes
Appointment mode	<input checked="" type="checkbox"/>	
Disable HOME button	<input type="checkbox"/>	
Process selection	<u>Special tec</u>	

Click "Process" - "Special process", **all the interfaces and functions are the same as in the general mode.**

Click "Project", the interface is as follows, compared with the general process, it lacks the "Return" key



Click "Program", the interface is as follows, compared with the general process, it lacks the "Return" key

Process/special process		
Name: CS2 goods: Test process craft: MADUOGONG		
Number	Action	Notes
1	left	#Straight-line operation
2	right	#Rectilinear motion
3	right	#Rectilinear motion
4	zero	#Rectilinear motion

Return
Modify
Jig 1 Jig 2
OpenOpen
1/1
PgUp
PgDn

Programming

Write the program in **general mode**;

1. Create a new program (the program name of the new program must be **consistent with** the program name in the XML file code and the name of the job file; for example, if the program name is **JOB1**, then the XML file name is **JOB1** and the RelationJobName is "**JOB1**" in the XML file)
2. CRAFTLINE instruction insertion: click "Insert", select the conditional control class, select "CRAFTLINE", click "OK", enter the corresponding number of lines, click "OK". (**Be sure to enter the corresponding number of lines**)

Project preview/job instructions/Instruction insertion/Parameter

CRAFTLINE

Parameter	Value	Notes
New parameters	1	Corresponding rows

Example: CRAFTLINE 1

Confirm

Cancel

Project preview/Job instructions All 7 Line instructions

Name: CS2 Times: 0/1

0	NOP
1	CRAFTLINE 1
2	END

Insert Modify Delete Operate Var 1 /1 PgUp PgDn

3. Insert a CRAFTLINE instruction, then insert other instructions in the same way as you insert a non-CRAFTLINE instruction (you can insert multiple non-CRAFTLINE instructions between two CRAFTLINE instructions)

Project preview/Job instructions All 7 Line instructions

Name: CS2 Times: 0/1

0	NOP
1	CRAFTLINE 1
2	MOVL GP0001 V = 10mm/s PL = 0 ACC = 1 DEC = 1 0
3	CRAFTLINE 2
4	MOVL GP0002 V = 10mm/s PL = 0 ACC = 1 DEC = 1 0
5	TIMER T = 1
6	CRAFTLINE 3
7	MOVL GP0003 V = 10mm/s PL = 0 ACC = 1 DEC = 1 0
8	END

Insert Modify Delete Operate Var 1 /1 PgUp PgDn

4. When inserting the motion class instruction, select the local position variable/global position variable (for local position variable, select "New" to create new points; for global position variable, select "GP" for the parameter, and then select the corresponding position point, for example, GP0001, GP0002....., the selected point should correspond to the program name and point in the XML file)

MOVL			
Parameter name	Parameter source		Notes
Point	New	More	Saved points:0
V	10	More	Range (1-1000)
PL	0	More	Range (0-5)

MOVL			
Parameter name	Parameter source		Notes
Point	GP0001	More	Saved points:0
V	10	More	Range (1-1000)
PL	0	More	Range (0-5)

Writing XML files

Red parts are **modifiable**;

You need to create and edit the corresponding XML file in **Notepad++** software;

When writing, **<operation>** and **</operation>** count as one CRAFTLINE;

- For example: `<?xml version="1.0" encoding="utf-8"?>`

`<WramCup RelationJobName="W1" ProductName="保 1" ProcedureName="缩 1">`

The name of the program written under the general process: "**W1**"; Product name: "保 1"; Procedure: "缩 1"

- `<operation>`

`<Context note="关节" name="到某一点去"/>`

`<Position note="关节直角" name="GP0001"/>`

`<Value note="变量 1" name="GP0001"/>`

`</operation>`

Action: "到某一点去"; Note: "直角"

Global position: "GP0001"; this means the robot will move to point GP0001

Motion class instruction corresponds to this type of code

Name:	CS1	goods:	Test process	craft:	MADUOGONG
Number	Action			Notes	
1	right angle			#joint	

Select the instruction corresponding to this type of code and click "Modify", the modification interface is as follows

Process/special process

zero

Joint		
Axis	Point	Current pos
J1	-7.7010	-14.389
J2	-1.1580	-1.978
J3	6.2740	10.723
J4	4.8560	8.299
J5	-8.0300	-13.725
J6	0.0000	0.000

Return robot to the current position

Confirm Cancel

Select the instruction corresponding to this type of code and click "Modify", the interface does not change, this is because there are no modifiable items for this instruction.

Examples

Project preview/Job instructions

All 8 Line instructions

Name: W1 Times: 0/1

0	NOP
1	CRAFTLINE 1
2	MOVL GP0001 V = 10mm/s PL = 0 ACC = 1 DEC = 1 0
3	CRAFTLINE 2
4	MOVL GP0002 V = 10mm/s PL = 0 ACC = 1 DEC = 1 0
5	CRAFTLINE 3
6	TIMER T = 3
7	CRAFTLINE 4
8	MOVL GP0002 V = 10mm/s PL = 0 ACC = 1 DEC = 1 0
9	END

Insert Modify Delete Operate Var 1 /1 PgUp PgDn

Write the program under the **general process** with the program name W1;

Then click "Process/Special process/Import", and import the corresponding XML file, the file content is as below:

```
<?xml version="1.0" encoding="utf-8"?>

<WramCup RelationJobName="W1" ProductName="保 1" ProcedureName="缩
1">

  <operation>

    <Context note="直线运行" name="取料点上方"/>

    <Position note="关节直角" name="P0001"/>

  </operation>

  <operation>

    <Context note="直线运动" name="辅助点"/>

    <Position note="关节直角" name="P0002"/>

  </operation>

  <operation>

    <Context note="直线运动" name="放工件点"/>

    <Position note="关节直角" name="P0003"/>

  </operation>

  <operation>

    <Context note="直线运动到位后打开吸盘" name="辅助点"/>

    <Position note="关节直角" name="P0004"/>

  </operation>

  <operation>

    <Context note="直线运动" name="返回取料上方"/>

    <Position note="关节直角" name="P0003"/>

  </operation>

  <operation>

    <Context note="直线运动" name="辅助点"/>

    <Position note="关节直角" name="P0002"/>

  </operation>

</WramCup>
```

```
</operation>

<operation>

    <Context note="直线运动" name="放工件点"/>

    <Position note="关节直角" name="P0003"/>

</operation>

<operation>

    <Context note="直线运动到位后打开吸盘" name="辅助点"/>

    <Position note="关节直角" name="P0004"/>

</operation>

<operation>

    <Context note="直线运动" name="返回取料上方"/>

    <Position note="关节直角" name="P0003"/>

</operation>

</WramCup>
```

After importing the XML file, switch the teach pendant from general process mode to special process mode, then click "Project", select the "W1" file, switch to run mode, and click "Start" to run

Process/special process		
Name:	W1	goods: Test process craft: MADUOGONG
Number	Action	Notes
1	Place up at the reclaiming point	#Straight-line operation
2	Auxiliary point	#Rectilinear motion
3	Place the workpiece	#Rectilinear motion
4	Auxiliary point	#Open the suction cup after linear ...
5	Return to the top of reclaiming	#Rectilinear motion
6	Place the workpiece	#Rectilinear motion
7	Auxiliary point	#Open the suction cup after linear ...
8	Return to the top of reclaiming	#Rectilinear motion

Return

Modify

Jig 1 Jig 2
OpenOpen

1/1

PgUp

PgDn

The first line: displayed as serial number 1 in the special process program interface, as shown above

Corresponds to the first CRAFTLINE in the general process mode: run instruction 1,2, robot moves to point GP0001

The second line: displayed as serial number 2

Corresponds to the second CRAFTLINE in the general process mode: run instruction 3,4, robot moves to point GP0002

The third line: displayed as serial number 3

Corresponds to the third CRAFTLINE in the general process mode: run instruction 5,6, robot output is delayed by 3s

The fourth line: displayed as serial number 4

Corresponds to the fourth CRAFTLINE in the general process mode: run instruction 7, 8, robot moves to GP0002

Notes



- Programs can not be executed in special process mode, for example, you cannot insert LABEL and JUMP instructions; CRAFTLINE 1 cannot jump to CRAFTLINE 3