



Leetro co., Ltd

MPC6610

Controller of CNC Router

User Manual

(V 1.0)

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Cautions: Moving Machine is dangerous. Do design he mechanisms with effective error handling and security protection mechanisms.





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Chapter 1 Preface

Thank you for the use of MPC6610 Controller of CNC Router!

Please read carefully User Manual before using MPC6610.

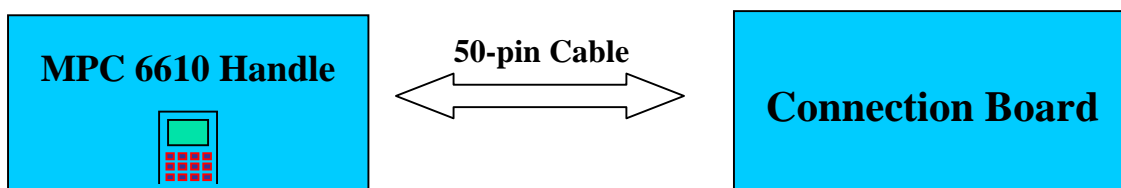
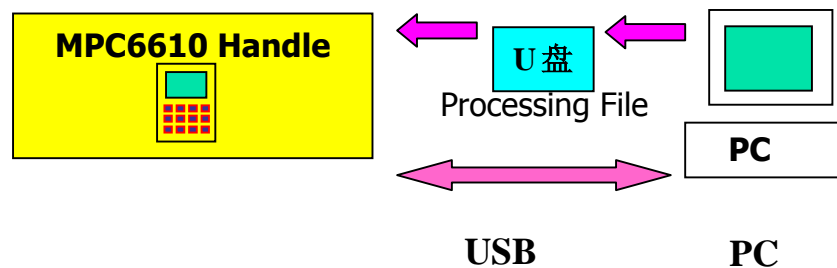
 Caution	Please take full account of machine moving protection measures to avoid machine damage or casualties.
 Prohibition	Please do not use freely the controller before reading user manual!
 Prohibition	Please do not disassemble or replace chips and components without authorization!
 Prohibition	Please protect it from water, corrosive solution or gas!

Chapter 2 Overview

2.1 MPC6610 Introduction

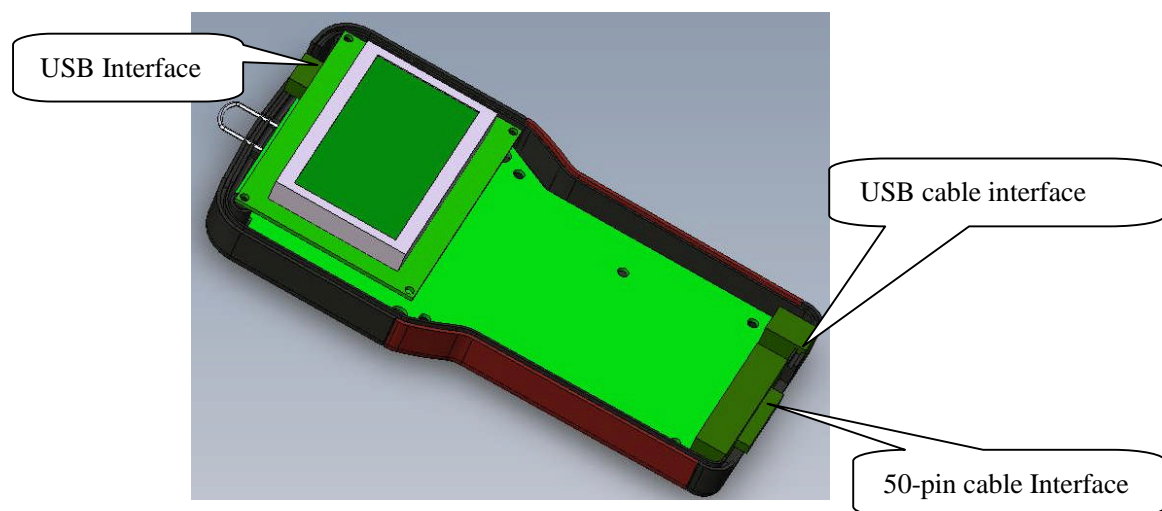
MPC6610 Controller is a newly-developed type of motion controller, particularly for Mechanical engraving and cutting technology. It can be fully realized work offline. Standard G code file processed in the software of upper computer can be downloaded to the controller by USB Disk or USB data cable. All machine setting parameters can be input to the controller.

2.2 Components of Controller



MPC6610 Components of Controller

- 1) Handle
- 2) Connection Board
- 3) 50-pin Cable

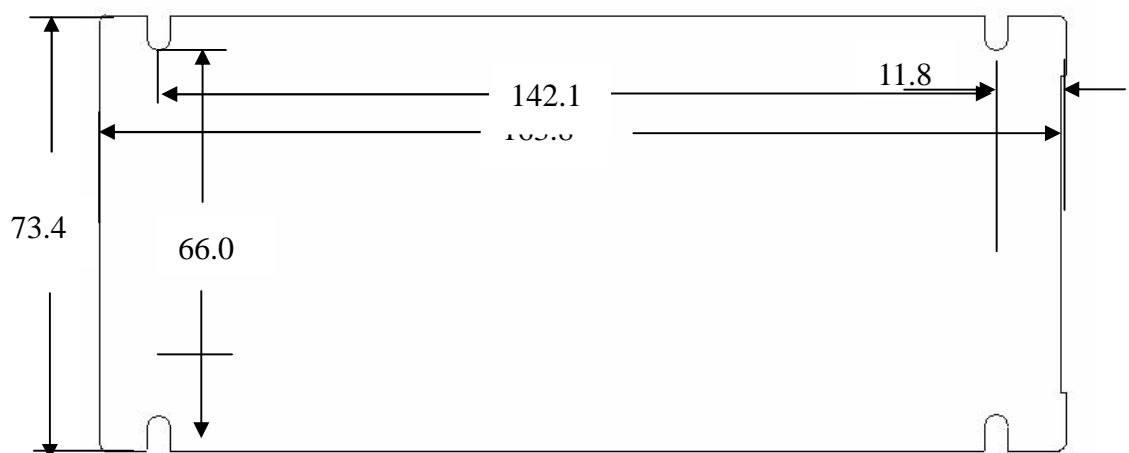


Chapter 3 MPC6610 Dimension

3.1 Handle Dimension



3.2 P50 Connection Board Dimension





Chapter 4 MPC6610 Hardware Interface


4.1 MPC6610 Hardware Interface Introduction

Name	Pin Definition					
	1	2	3	4	5	6
POWER1	24V Power +	GND				
X1	X Axis + limit	X Axis -limit	YAxis+limit	YAxis-limit	ZAxis+limit	Z Axis - limit
X2	X Axis Home	Y Axis Home	Z Axis Home	U Axis Home	GND	24V
X3	IN1	IN2	IN3	IN4	GND	
Y1	X axis pulse	X Axis Dir	5V			
Y2	Y axis pulse	Y Axis Dir	5V			
Y3	Z axis pulse	Z Axis Dir	5V			
Y4	U axis pulse	U Axis Dir	5V			
Y5	OUT1	OUT2	OUT3	OUT4	GND	
Y6	SP0	SP1	SP2	SP+	GND	
J1	50-pin cable connector					

- 1) POWER1: Power input Interface (24VDC)
- 2) Note: MPC6610 adopts 24VDC power supply. The other power pin is output power from the controller

	MPC6610 adopts 24VDC power supply. Please make sure the correct and reliable power in order to avoid the part damage, and abnormal work.
Caution	

	All power supply is only used to control signals. It is prohibited to use is as the power supply of driver.
Prohibition	

	The 3rd Pin of Y1、Y2、Y3、Y4 is 5v power supply from MPC6610. Please do not connect the exterior 5v power supply to the 3rd Pin.
Caution	

	Both input and output adopt single end mode.
Notice	

Chapter 5 MPC6610 Operation Interface

5.1 MPC6610 Panel Keypad



5.2 MPC6610 Main Interface

5.2.1 Main Interface


Turn on the controller, it will show the following screen:



Then 5 seconds later, it automatically enters "Datum" screen as follows:

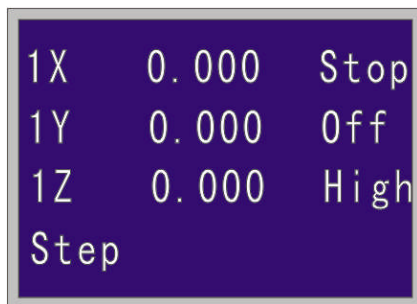




Press , the machine goes home, and the screen enters **Main interface** as follows, or Press




 to enter **Main interface**.



- 1) **X, Y, Z** shows current **absolute coordinate** of three axes. For example: “X 10.997” shows that current X axis absolute coordinate is 10.997
- 2) **“Stop”** shows the machine state is “ Stop”. It shows different condition according to the machine current state. For example, it shows **“Run”** while it is working. It shows **“Pause”** if you suspend the machine while working. It shows **“Home”** if the machine goes to machinery origin. It shows **“Manl (Manual)”** while operating manually and so on.
- 3) **“Off”** shows the spindle state is “ off ”. It will show the spindle grade state No. while working.
- 4) **“High”** means that the current max speed depends on the user setup “ Manual High”. Press













, it switches to **“Low”**, The current max speed depends on the user setup” Manual Low”.



- 5) (Manual) **Mode** (**Continuous** mode, **Step** mode, **DST(Distance)** mode)









Press  Three Manual move modes switches as follows:

“Step” X, Y, Z axis move once 0.1mm while pressing , , , , ,  . 0.1mm is stable. Please contact the factory if you want to amend it.

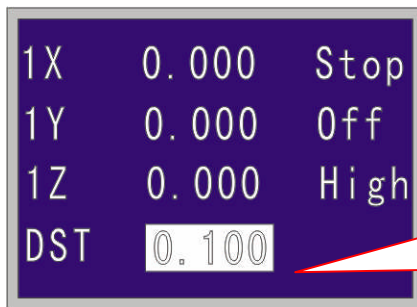
“Continuous”: X, Y, Z axis begins to move while pressing , , , ,

、 , and stop till the button releases


DST(Distance): In this mode, the machine move once according to the setup distance while

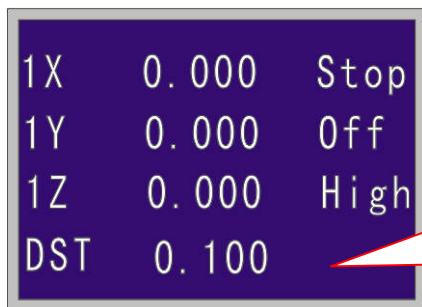
pressing once 、、、、、 ,

Remarks: In the following mode, you can modify the distance.




(Figure 1)

Such state, you can input any distance you want, and then press  to confirm it.




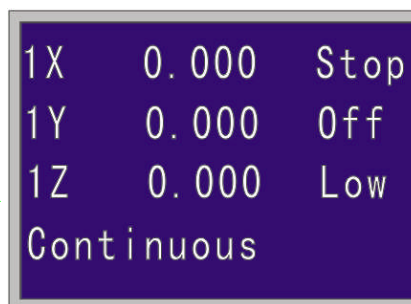
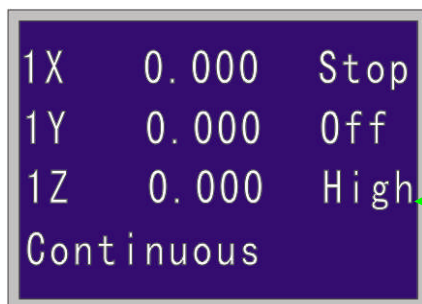
(Figure 2)

Such state, you can press  to switch to the state of **Figure 1** to amend distance.

5.2.2 Switch H Wigh (speed) / Low (Speed)



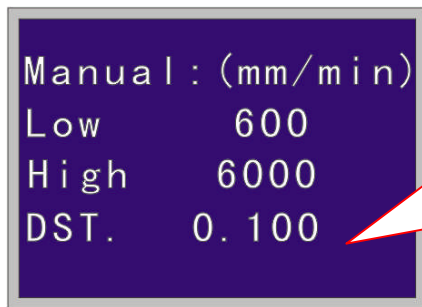
Press  to switch **【High】**、**【Low】**



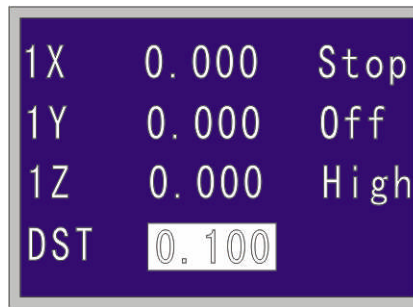
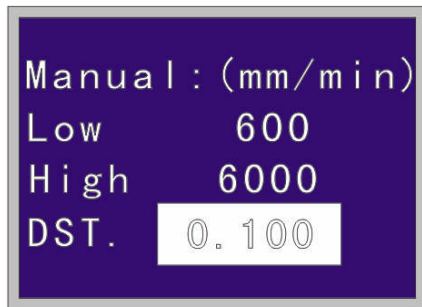
5.2.3 Modify High / Low value



Press  as follows:



While manual Mode, Low speed is 600mm/ min. High speed is 9000/min
Herein, DST (distance) is the same with manual moving DST (distance)

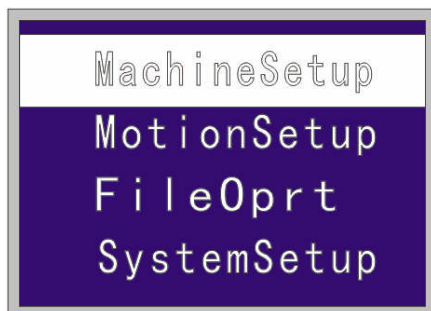


Remarks: The above two DST (Distance) settings are the same. While modifying one setting number, the other setting number will change to the same automatically.

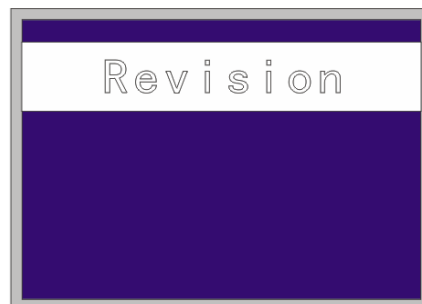
5.3 Menu









Press  to Enter Setting List



and



5.3.1 Menu Item Switch

1. Press  ,  to move the cursor among the menu item in one page.
2. Press  ,  to move the cursor to the next page.
3. Press  to enter Menu item. Press  to return main interface.

5.3.2 Modify setting parameter. (Modify the table size to illustrate:)


Enter “Machine Setup”, and then press  to enter **【Table Size】**

Table Size: (mm)	
X	1200.00
Y	2500.00
Z	200.00



Second Step: Press as follows:

Table Size: (mm)	
X	1200.00
Y	2500.00
Z	200.00



Press to modify the number

Third step: Input correct number value according to the actual size:

Table Size: (mm)	
X	1200.00
Y	2500.00
Z	200.00



Press to modify the value if the input is wrong.



Fourth Step: Press to confirm the table size setting.

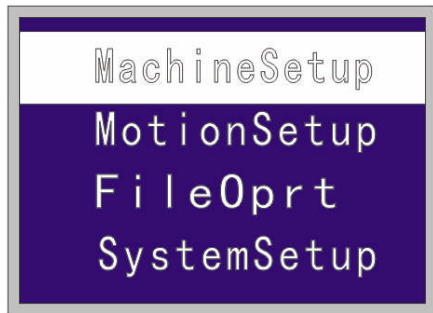
Remarks: All modifying steps are the same as the above steps.

5.4 Machine Setup

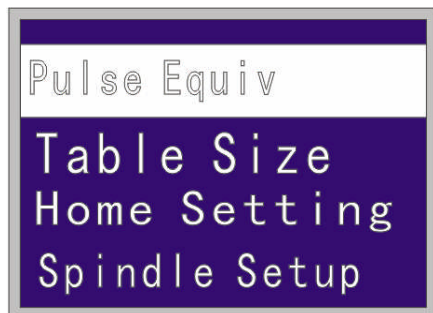
5.4.1 Pulse Equiv (Equivalent)



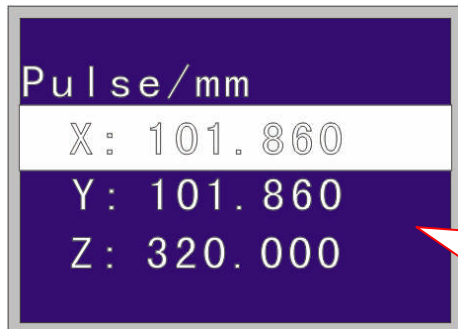
First Step: Press to enter as follows:



Second Step: Press to enter as follows:



Third Step: Press to enter as follows:



- 1、Pulse Equivalent means the driver pulse number when the axis moves 1mm.
- 2、Pulse Unit: Pulse/mm



- 3、Please press to modify the number

If the working size in X Y axis is not correct, please modify the pulse equivalent as follows.

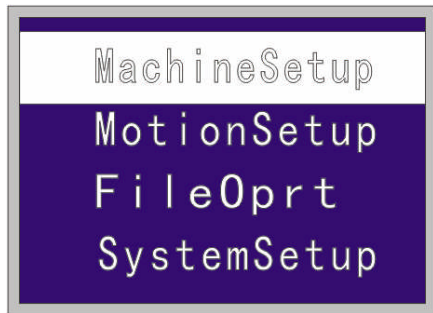
(Please Note: Pulse equivalent is certain according to the machine hardware, such as driver, and machine structure. Random change will lead to incorrect work and wrong speed) Please contact the manufacturer before modifying.)

- 1、For example, the theoretical cutting square size is 100 X100mm
- 2、But the actual cutting square size is 90×90 mm
- 3、Correct pulse equivalent = $(101.86 \times 100) / 90$
- 4、Then input the correct pulse equivalent.

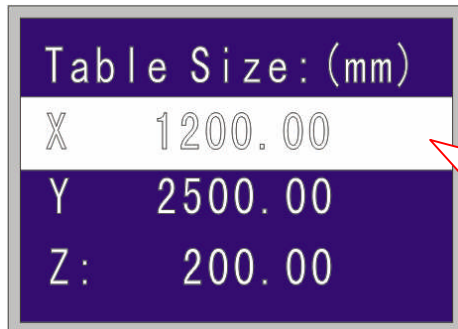
5.4.2 Table size



First Step: Press to enter **【Machine Setup】** as follows:



Second step: Press  to enter **【Table Size】** as follows:



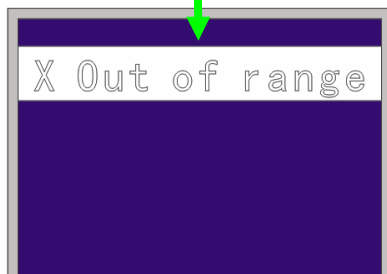
1、X Y Z Size unit: mm



2、Press  to modify the number

Remarks:

- 1、The number value means the max moving size in X、Y、Z axis after the machine go home. For example: “X: 1200” means the max moving area in X axis direction is 1200mm.
- 2、In manual moving, it stops moving while it exceeds table size, and the limit error report will shows as follows:



1、Limit error reports begins from Z axis, then X Y axis error.

2、This function is valid only after MPC6610 controller goes home.

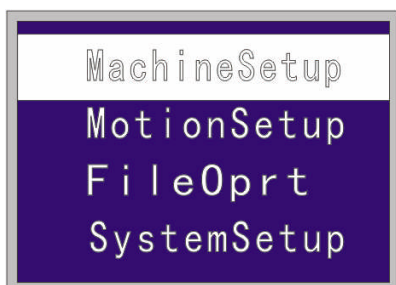
Problem Solution:

1. Please check Pulse Equivalent is correct or not
2. Please check the file size to make sure the size does not exceed the table size.
3. Please contact with the manufacturer.

5.4.3 Home Setup



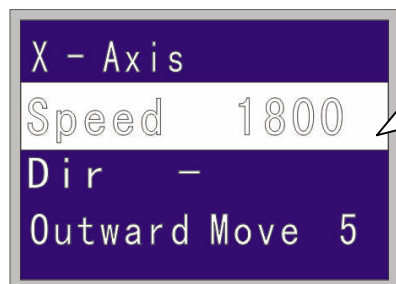
First Step: Press  to enter **【Machine Setup】** as follows:



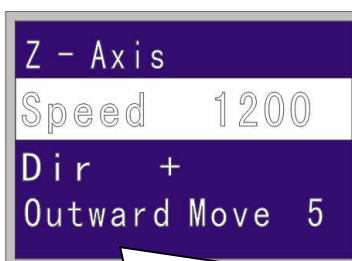
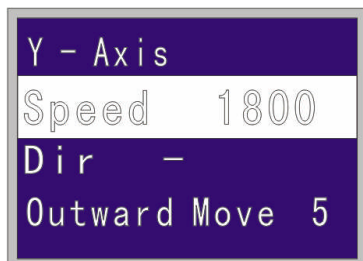
Step 2: Press  or  to choose **【Home Setting】** :







Step 3: Press  to enter **【Home Setting】** as follows:




- 1、 Speed Unit: mm/min, Max Home speed
- 2、 Dir(Direction) : - refers to Negative Direction, + refers to Positive Direction
- 3、 Outward Move: It refers to the backward moving distance after going home.



- 1、 Press  ,  to move the cursor among the menu item in one page. Press  ,  to move the cursor to the next page.
- 2、 Speed (Max Home speed) is set up according to the machinery

5.4.4 Spindle Setup

- 1)  Spindle startup/ stop(the current spindle start to rotate at the lowest setting

speed). The spindle rotational speed can be adjusted after pressing

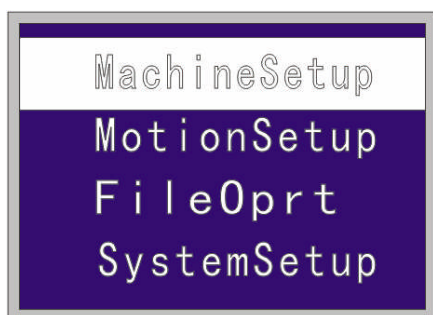


after the spindle startups and processing work stops

2)



First Step: Press to choose 【Machine Setup】



Second Step: Press  or  to choose 【Spindle Setup】:



- 1、 Generally there is no need to modify the default spindle setup.
- 2、 Spindle Grade State: Low, Medium, and high. There are 8 (state speed. Every state speed depends on the Inverter setup.



Third Step: Press to enter 【Spindle Setup】 as follows:



1. Wait time: It refers to the waiting time to move after press




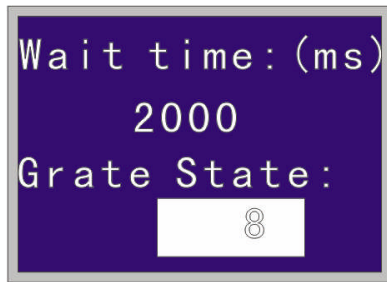
.(It depends on the inverter setup)




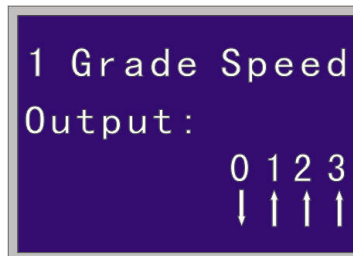
- 2、 Please press to modify the number value.



Fifth Step: Press , and input **【8】** as follows:



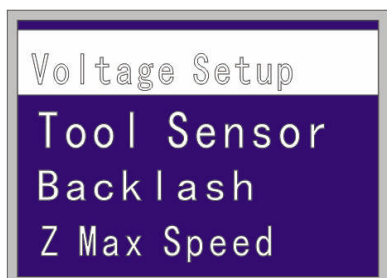
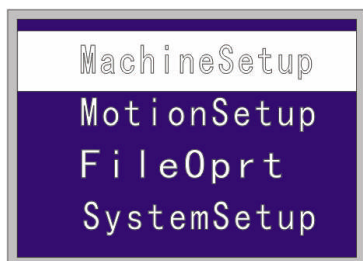
Sixth Step: Press  to enter the following interface. (Remarks: There is no need to modify the following interface)



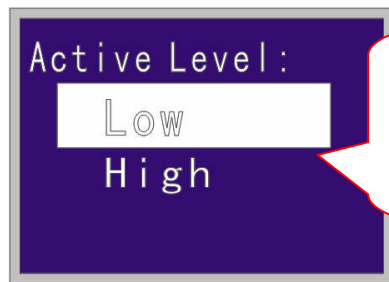
5.4.5 Voltage Setup



First step: Press  to enter




Third Step: press  to enter **【Voltage Setup】** as follows

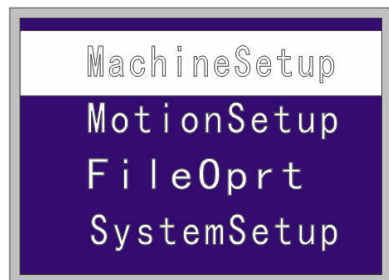






It means that limit sensor signal, home signal, input signal, and output signal work at effective high voltage (about DC0.6V) or effective low voltage (about DC24V) .

5.2.6 Tool sensor

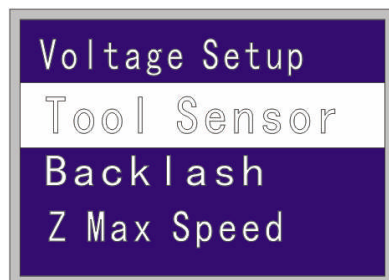



First Step: Press  to choose **【Machine Setup】**

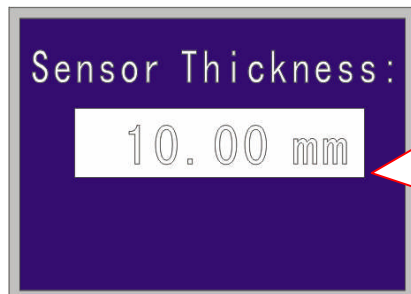


Second Step: press  , or  to choose **【Tool Sensor】** as follows: (Press  ,  ,

to enter the next page)






Third Step: Press  to enter **【Tool Sensor】** as follows:



1、 Input the number value according to the tool sensor thickness supplied by the manufacturer. Unit: mm

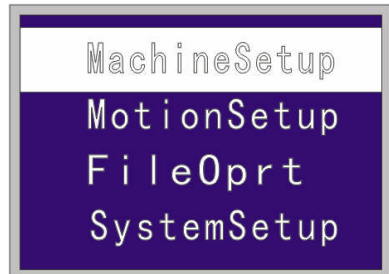
2、 Press  +  automatic tool setting







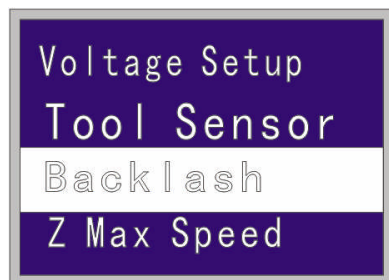
Remarks: After press  +  to set tool automatically, please do not press  to make Z axis origin setting.

5.2.7 Backlash

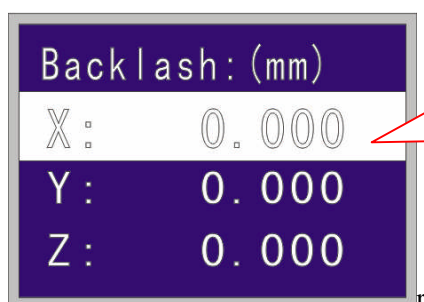
First Step : Press  to choose **【Machine Setup】**



Second Step: Press  or  choose **【Backlash】** (Press  or  to enter next page.)



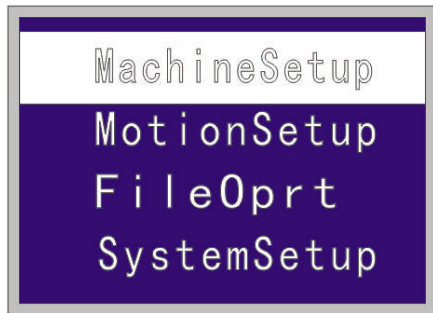
Third Step: Press  to enter **【Backlash】**







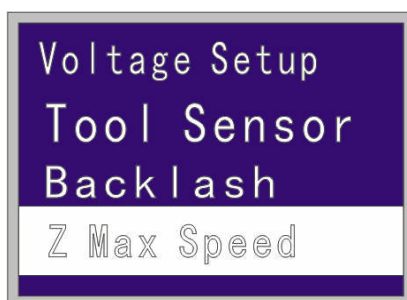
There is no need to change the number value. Unit: mm


5.2.8 Z axis Max speed

First Step : Press  to choose **【Machine Setup】**



Second Step: Press  or  choose **【Z Max Speed】** (Press  or  to enter next page.)



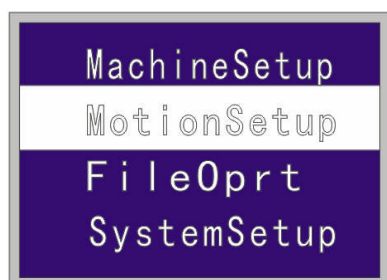
Third Step: Press  to enter **【Z Max Speed】** as follows:



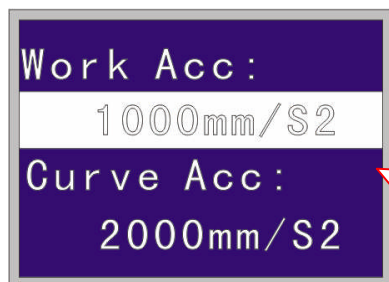
1. Speed Unit: mm/min
2. At manual Mode, it limits **【High】**、**【Low】** . In normal processing, it limits Z axis max speed.(Remarks: Z ball screw lead generally is 5mm. 10mm.
3. Z axis max speed is normally set up 1200

5.3 Motion Setup

First Step : Press , and press  or , to choose **【Motion Setup】**,

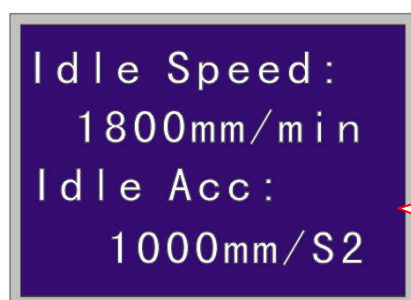


Second Step: Press  to enter as follows:



- 1、 Acceleration Unit: mm/S²
- 2、 **【Curve Acc(Acceleration)】** is two times as much as **【Work Acc (Acceleration)】**
- 3、 The number value is empirical value.
- 4、 Please subject to the actual debugging to adjust Curve Acc and Work Acc.

Third Step: Press  to next page as follows:



- 1、 Speed Unit: mm/min
- 2、 Please press  to modify the setting number.
- 3、 Idle speed is set up according to the mechanism.

Remarks:

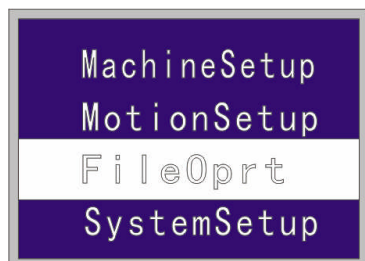
Please contact the manufacturer to open the hidden interface if you have any problem !

5. 4 File oprt(operation) **【Run File】**

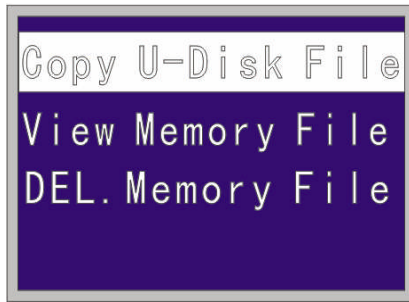
5.4.1 Copy U-disk file


First Step: Insert U-disk

Second Step: Press  and press  or  to choose **【 File Oprt 】**






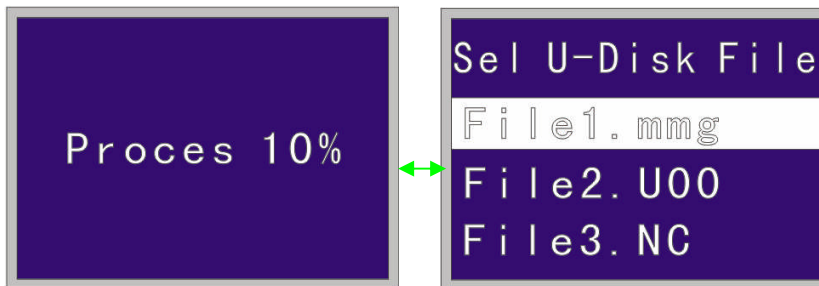
Third Step: Press  to enter as follows:



Forth Step: Press  to enter.



Fifth Step: Press , or , to choose **Sel U-Disk File: File1.mmg**, and press  to enter the following interface.



Remarks: It will take some minutes if the file is too big.



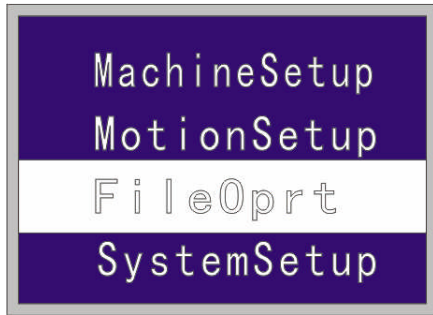
Sixth Step: Press  to return **【Main Interface】**



5. 4. 2. Run Memory file

Operation 1:



First Step: Press  and press  or  to choose **【File Oprt】** as follows:




Third Step: Press  or  to choose **【View Memory File】** as follows:

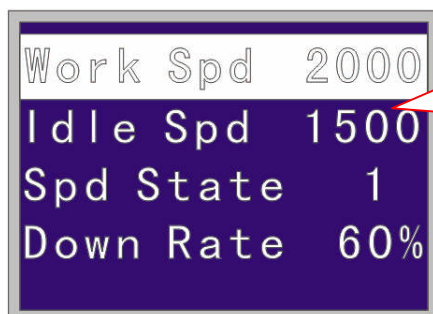


Forth Step: Press  or  to choose **【Sel Memory File: File1.mmg】**, and press 

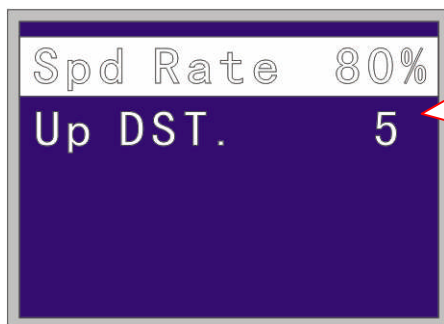
Run the file



Fifth Step: Press  to enter Run(Operation) interface as follows:




- 1、 Work Spd(Speed) Unit: mm/min
- 2、 Idle Spd(Speed) Unit: mm/min
- 3、 Spd State(Spindle grade State): It refers to the spindle motor speed per minute.
- 4、 Down Rate: $Z \text{ axis Max speed} \times \text{Down rate} = Z \text{ axis down speed of working.}$




- 1、Spd(Speed) Rate: $\text{Work speed} \times \text{Spd Rate} = \text{the actual processing speed of X Y axis.}$
- 2、Up DST(Distance): It refers to Z axis up



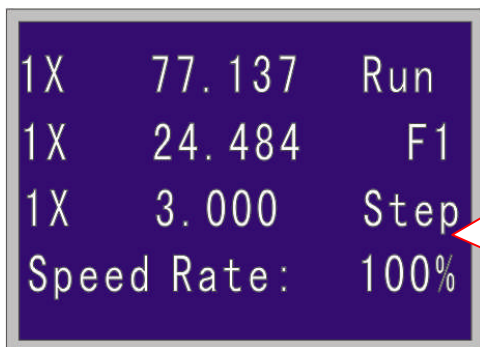
distance while pressing . The number value is set up in edit software.



Sixth Step: Press  again. If the file is processed for the first time, the following interface will appear. If the file is not processed for the first time, the following interface will not appear. It will enter **Seventh Step**.




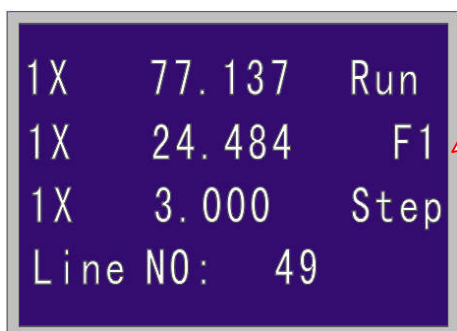
Seven Step: After Processing 100%, the following interface appears:






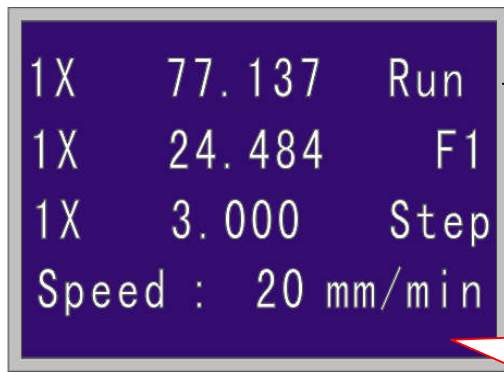
- 1、【Speed Rate】、【Line No.】、【spd】、【Counter】 automatic switching display





- 2、 + Digit (1~6): Switch to multiple workpiece origin(coordinates) 【Up to 6 coordinates】
- 3、Spindle grade state: off、F1、F2、F3、F4、F5、F6、






- 1、While processing, press  + 、 to change the spindle state.
- 2、While processing, only **【Step】 mode works**, and every manual move default distance is 0.1mm. Please contact the manufacturer if you want to modify this number value.

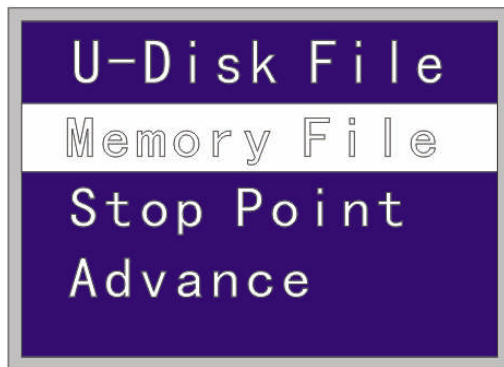


1、Herein, it shows **【 Run 】** while processing. While pause, it shows **【Pause】**

1、While processing, press  ,  to adjust the speed. The speed change 5% times every press.


Operation 2: Press  to run the memory file.

First Step: Press  and  or  to choose **【Memory File】**




Second Step: Press  to enter as follows:



Third Step: Press  , or  to choose **【Sel Memory File: File1.mmg】**

(Press  or  to the next page).



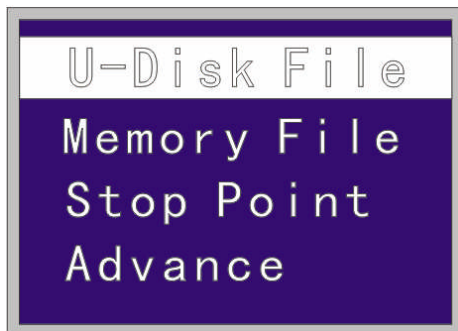
Forth Step: Press  to enter the following interface. The following step is the same with above Operation 1.

5.4.3. Run U-Disk File

First Step: Insert U-disk.



Second Step : Press , and press  or  to **【U-Disk File】**



Third Step: Press  to enter as follows:

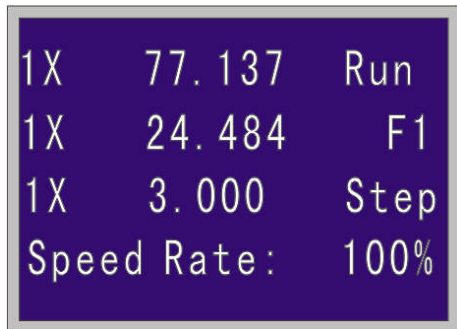




Forth Step: Press , or ,  or  to choose **【Sel U-Disk File: File1.mmg】** The following step is the same with above Run Memory File or

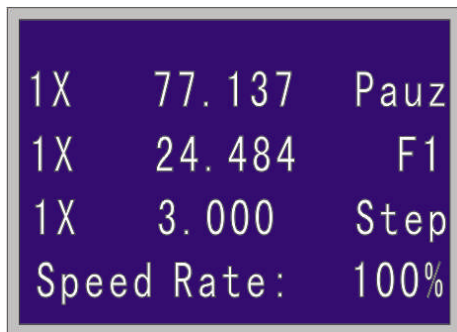
5. 4. 4. Stop point and Adjust Z axis height



First Step: Press two times and enter the following interface:



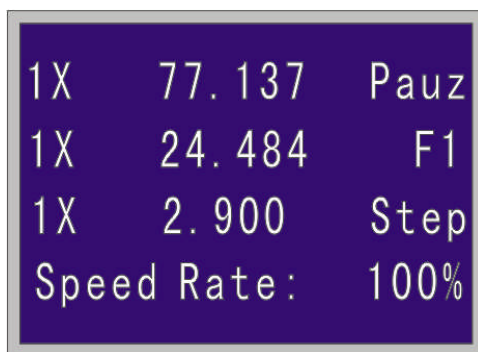
Second Step: Press to enter **【Pause】** interface, then press 、 to adjust Z axis height as follows:



Press to stop the work if the material is not flat during processing, and then adjust Z axis down deepness.



Third Step: Press to adjust Z axis height as follow:




1、 Under the mode of **【Manual】**, default manual move distance is 0.1mm,
Please contact the manufacturer if you want to modify the distance.




Forth Step: Press to enter as follows after adjusting Z height in Pause state.



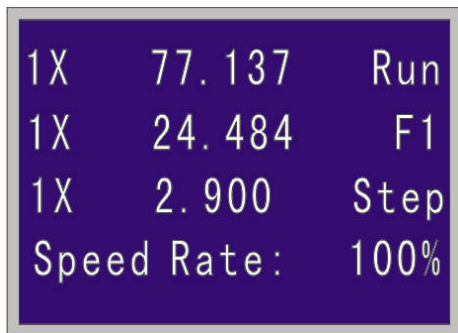
1、Press  to continue to run the file according to old Z height.(New Z height setting is



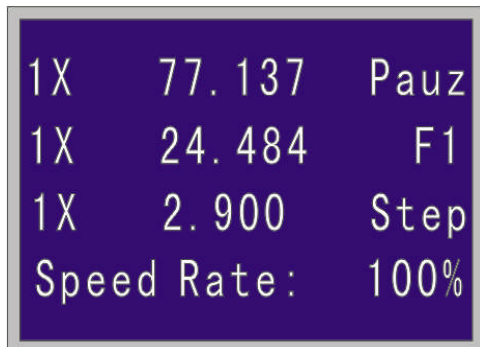
canceled). Press  to run the file according to new Z height,



Fifth Step: After press  or , the interface is shows as follows:



Sixth Step: Press  to enter **【Pause】** state:




Seven Step: Press  to enter as follows:

1、Current Stop point line is at the 19th G-code.



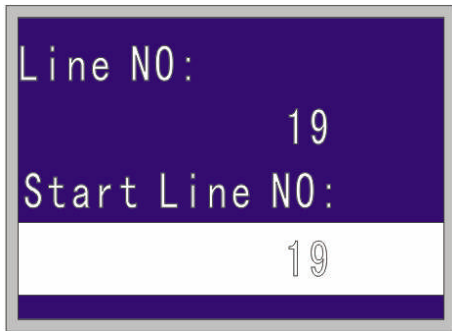
Please press  to modify this number.




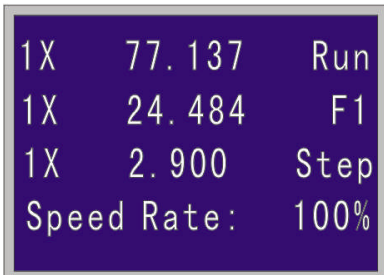
Press  to save Start line, and then press





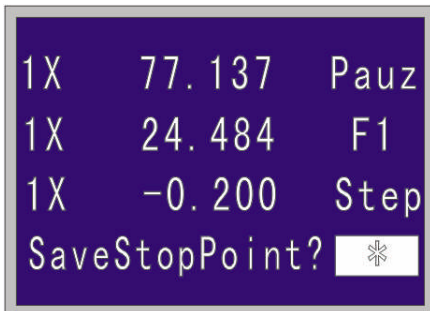
to continue to run the file.




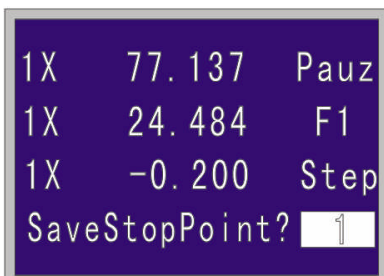
Eighth Step: Press  to enter the following interface.








Ninth Step: Press , and then press  to enter the following:

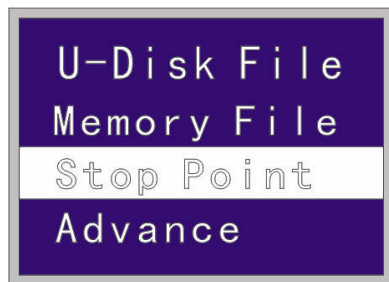


Tenth Step: Input any number among 1-6 , and then press  to save Stop point.



5.4.5 Stop point

First Step: Press , and press , or , , or  to choose **【Stop Point】** as follows:



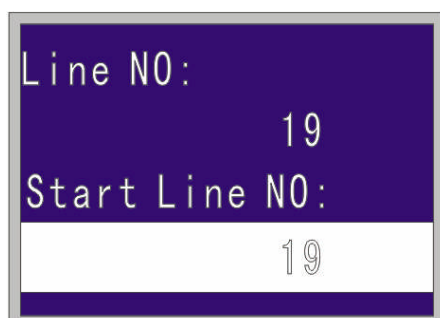
Second Step: Press  to enter as follows:




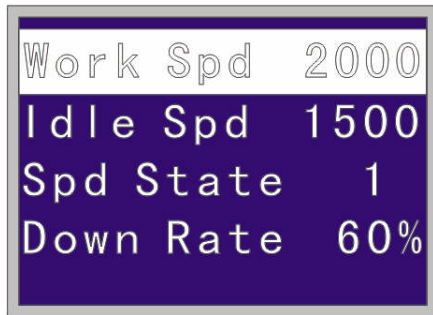
Third Step: Input the previous saved Stop point 1:




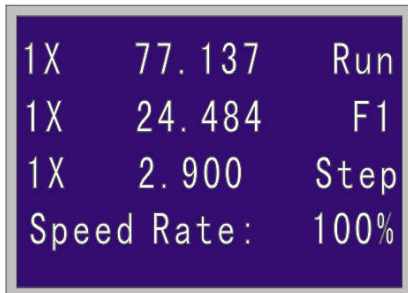
Forth Step: Press  to enter the following interface.



Fifth Step: Press  to enter the following interface if you want to continue to run the file from Start Line No.19,



Sixth Step: Press  to continue to run and enter the normal interface as follows:



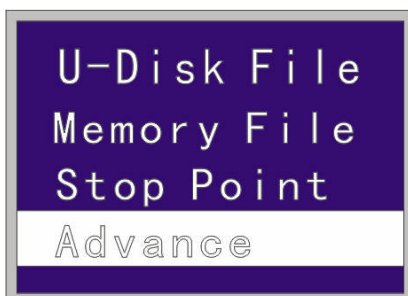
Remarks:




1. In the case of going home, continue to run the file from the saved Stop Point at any time
2. In the case of no going home, only while the tool head does not work can the saved Stop Point be available.

5. 4. 6 Advance



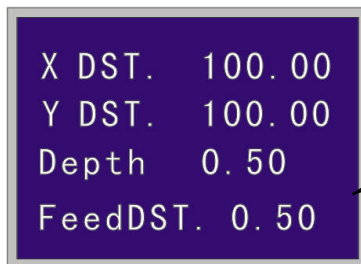
First Step: Press , and press  or , to choose **【Advance】** as follows:



Second Step : Press , and press  or  to choose **【Milling】**



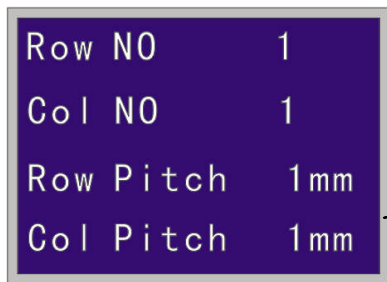
Third Step: Press



1、 This function is only for milling flat table.



Forth Step: Press , or choose 【Matrix】

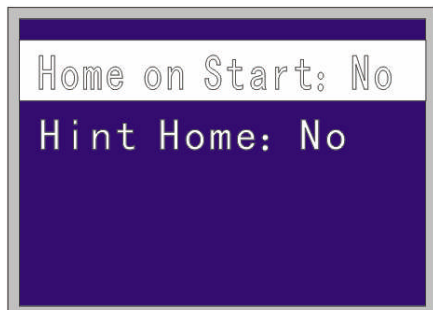


It is only used for processing the same graphics file.

5. 4. 7 Go Home Setup

Go home Setup decides if the power-off protection and Stop-point are valid or not.

Setup 1.: 【Hint home: No】、【Home on Start: No】



【Home on start: Yes】: Go home automatically after MPC6610 controller turn on.
【Home on Start: No】: Do not go home after MPC6610 controller turn on.

Then enter the following interface while MPC6610 controller turns on.

G-Code Executant

1X	0.000	Stop
1X	0.000	Off
1X	0.000	High
Step		

Remarks:

- 1、 Stop-point and Power-off protection are not valid in this manner of such setting.
- 2、 Only after going home, stop-point and power-off protection are not valid.

Setup 2: 【Hint home: No】、【Home on Start: No】

Home on Start: Yes
Hint Home: No

【Home on Start: Yes】: Go home automatically after MPC6610 controller turn on.

【Home on Start: No】: Do not go home after MPC6610 controller turn on.

Then enter the following interface while MPC6610 controller turns on.

G-Code Executant

1X	66.10	Home
1Y	66.10	Off
1Z	30.00	High
Continuous		

Herein, Hint **【Hint】**,

After going home, stop-point and power-off protection are both valid.

1X	0.000	Stop
1Y	0.000	Off
1Z	200.00	High
Continuous		

Setup 3: **【Hint Home: Yes】**

Home on Start: No
Hint Home: Yes

【Hint Home: Yes】: After MPC6610 controller turn on, it

hints **【Datum?】**, Press  to go home. Otherwise press



to enter Main interface instead of going home.

【Home on Start: No】: Enter Main interface after turning on.

Then enter the following interface while MPC6610 controller turns on.

G-Code Executant

Datum?

Herein, Hint **【Datum】**



Operation 1: Press  to go home and enter the following interface.

Stop-point and Power-off protection are valid in this manner of such setting.

```

1X    66.10    Home
1Y    66.10    Off
1Z    30.00    High
Continuous
  
```

```

1X    0.000    Stop
1Y    0.000    Off
1Z    200.00   High
Continuous
  
```



Operation 2 : Press  to enter the following Main interface instead of going home.

```

1X    0.000    Stop
1Y    0.000    Off
1Z    200.00   High
Continuous
  
```

Remarks:

1. Stop-point and Power-off protection are not valid in this manner of such setting.



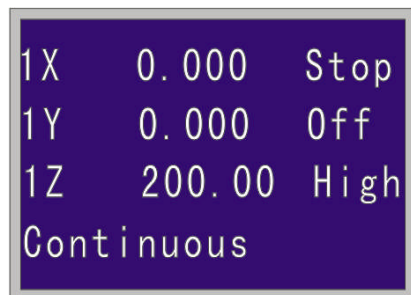
2. If 【Hint home: Yes】, and press , and 【Home at start: Yes】, stop-point and power-off protection are not valid in this manner of such setting.

5. 4. 8 Power off Protection

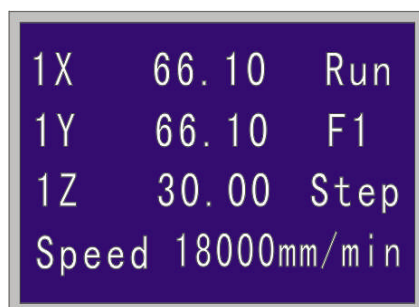
First Step: Turn on the handle to enter the following interface:



Second Step: Press , then the machine go home automatically and enter as follows:



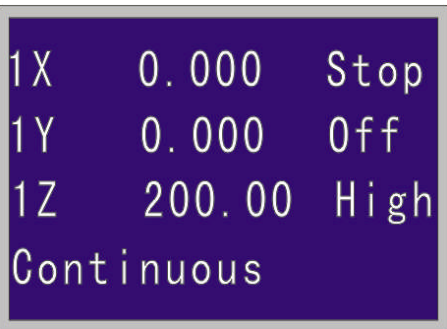
Third Step: Run file to enter the normal processing interface:



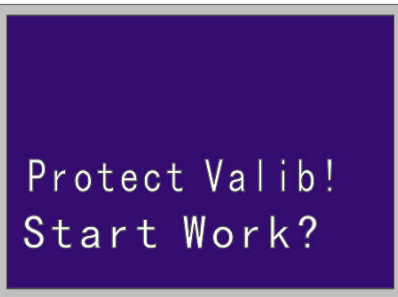
Forth Step: Suddenly the power is off. Then turn on the handle to enter the following:



Fifth Step: Press , the machine go home automatically, the handle shows as follows:



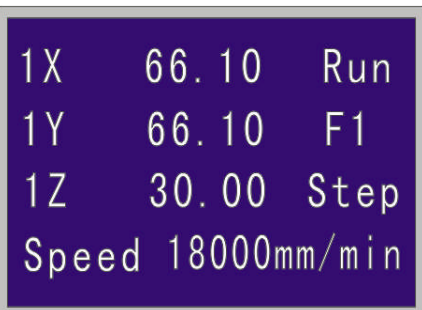
Power-off Protection / Continue?



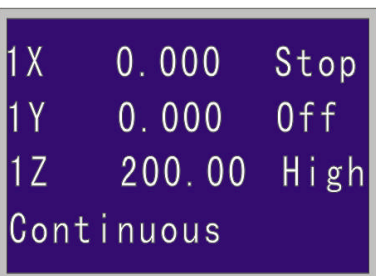
Sixth Step: Press  or  to choose if Continue work or not



1、 Press  to enter the following to continue the processing work.



1. Press  to cancel 【Power off Protection】

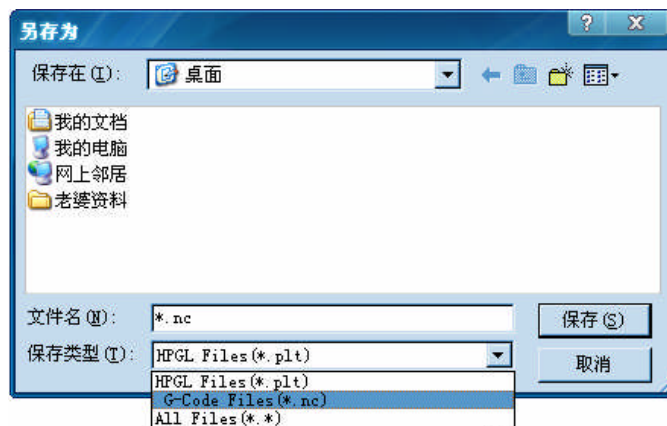
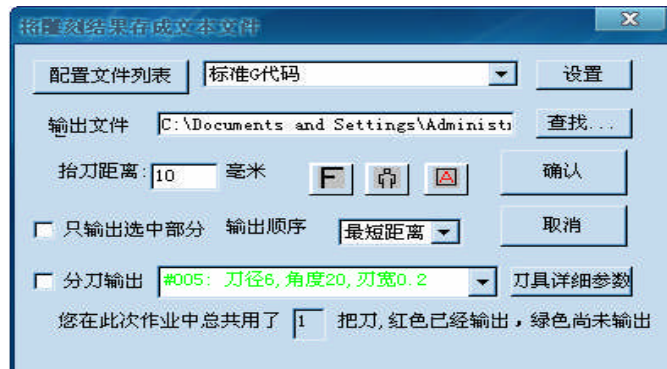


5. 4. 9 . Read processing file.

1. Wentai saved file format. (Wentai is also called Ucamcam, Artcut)



1、 Press “ Save Tool path” after editing the file in Wentai software.
 The saved file format in Wentai is G-Code Files(*.nc)



1、 Read Type 3 software file

First Step: Save the file tool path after finishing the edit.



Second Step: The saved file format in Type 3 is *.UOO

2、ArtCAM Software

First Step: Save tool path in ArtCAM after editing the file as follows:



Second Step: Output the file and save the file in the format “Model Master 3 Axis Flat (*.mmg)”

Third Step: Please use U-disk to download the file to the controller after the tool path is saved.

Remarks:

- 1、 Please make the U-disk format in Fat.
- 2、 Garbled processing file code will make the controller MPC6610 also garbled after downloading.

5. 4. 10 Key Combination.



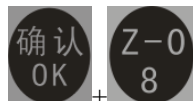
: Run the latest memory file.加工最近一次的内存文件




+Digit (1~6): Switch to multiple workpiece origin(coordinates)



: Absolute coordinate of Mechanical origin. (Only after the machine go home, will this coordinate value be accurate.)



: Automatic tool setting (Remarks: please do not press singly  after auto Tool setting)



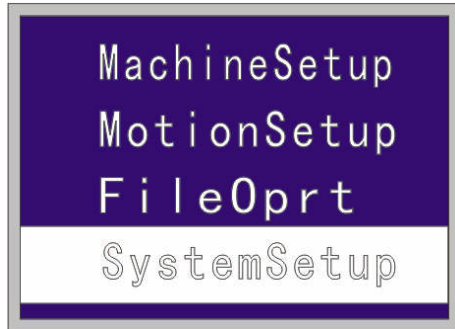
: Go to workpiece origin.

Please contact the manufacturer if you want to correct the hidden parameters.

5. 5 System Setup




5. 5. 1 Language

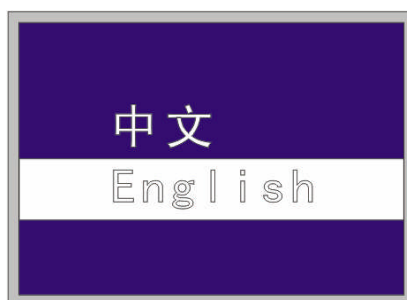
First Step: Press , and press  or  to choose **【System Setup】**



Second Step: Press  to enter **【Language】**:



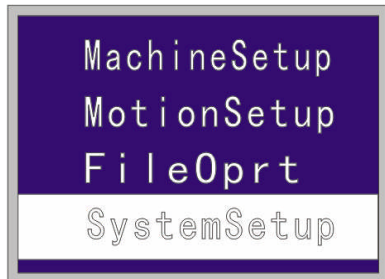
Third step: Press  or  to choose **【English】** and press  to enter English language



5. 5. 2 Update


First Step: Insert U-disk of Update file.

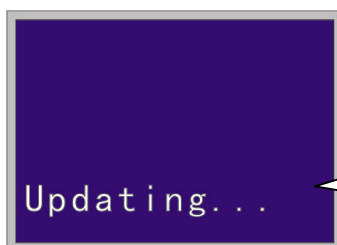
Second Step : Press , and press  , or  to choose **【 System Setup 】**,



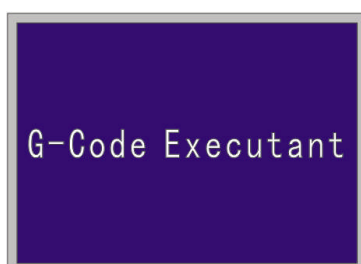
Third Step: Choose **【Update】**



Forth Step: Press 

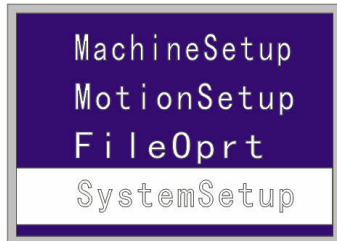


Please observe the light state of U-disk. Flash indicates the file downloading. Light on indicates the file downloaded.



5. 5. 3 Backup

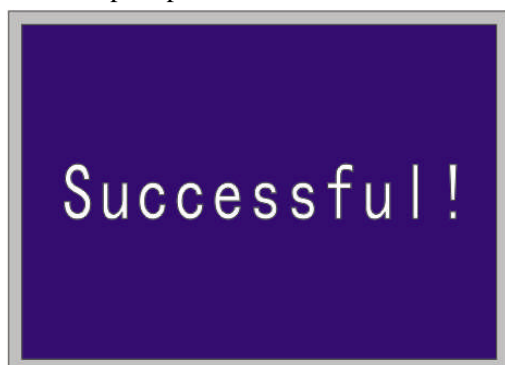
First Step : Press , and press  , or  to enter 【 System Setup 】



Second Step: Press  to choose 【Backup】

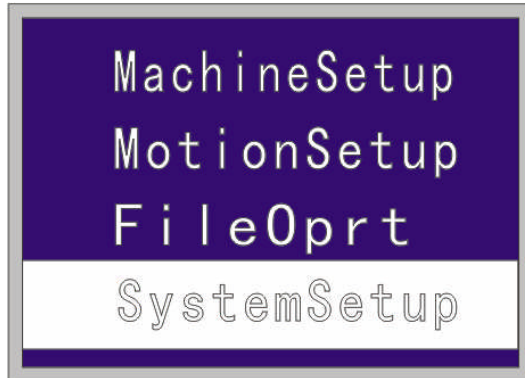


Third Step : press 



5. 5. 4 Restore

First Step: Press  and press  , or  to choose **【System Setup】**,






Second Step: Press  to choose **【Restore】**

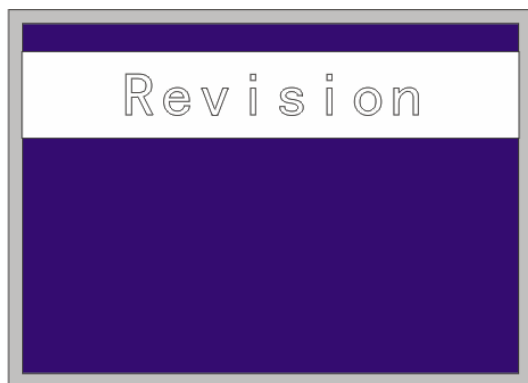


Third Step: Press  to backup the file:



5. 6 Revision

First Step: Press  and press  , or  to choose **【Revision】**



Second Step: Press  as follows:



It is to check the current Version for management and maintenance.

Remarks:

Please check the Revision, and contact the manufacturer while there is some wrong with MPC6610 controller.