



GENMITSU CNC ROUTER 3018-PRO

USER MANUAL

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Part 1: Package List

Name	Size	Picture	Qty
Aluminum Profile	20*40*290mm		2
	20*20*360mm		2
	300*180mm		1
Guide Rail (X Axis)	Ø10*360mm		2
Guide Rail (Y Axis)	Ø10*290mm		2
Lead Screw	T8(365mm)		1
	T8(295mm)		1

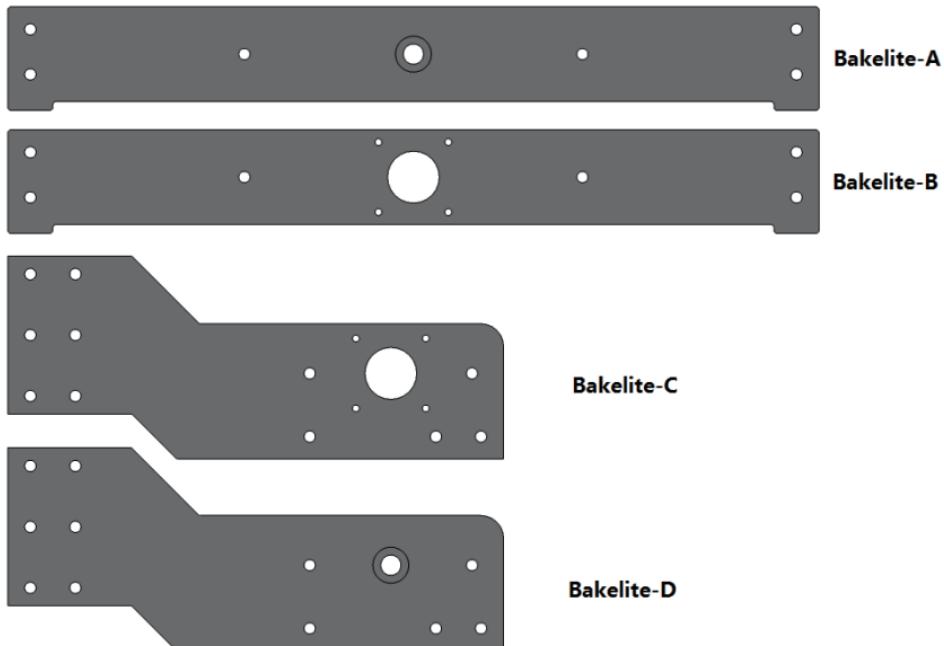
Name	Size	Picture	Qty
Phenolic Resin Plate			4
Stepmotor			2
Spindle & ER11			1
X-Z Axis Assembly			1
Slider			4
Nut Seat			1
Milling Cutter			10

Name	Size	Picture	Qty
4P Motor Line			3
Spindle Motor Line			1
24V Power Supply			1
Control Board & Fan & Case			1
USB Cable			1
Plate Clamp			4

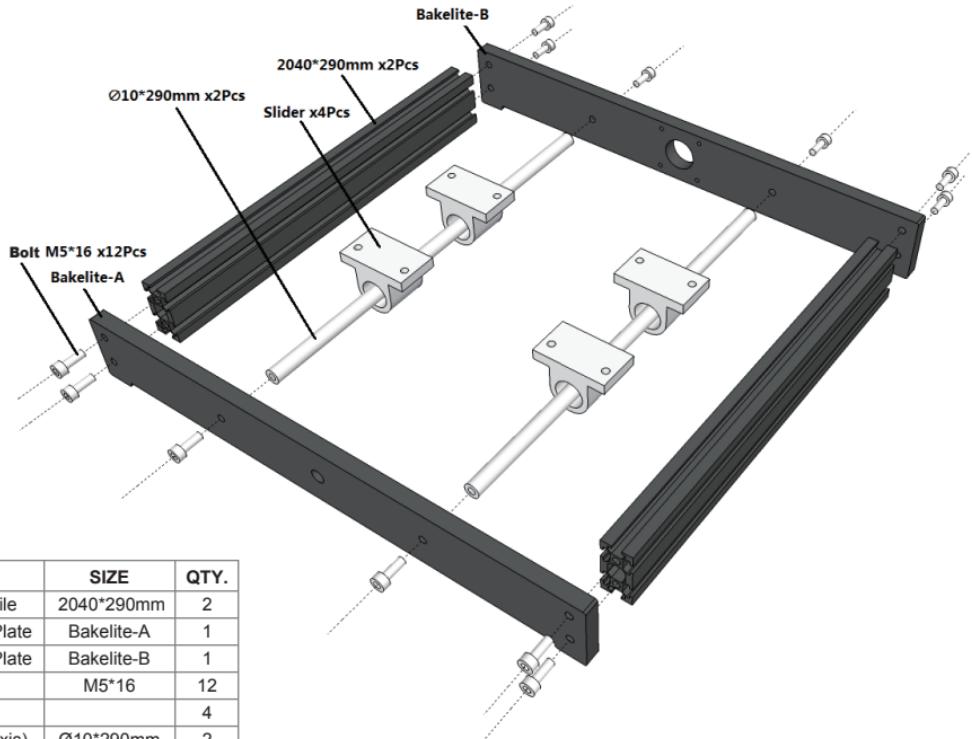
Name	Size	Picture	Qty
Winding Tube			1.5M
CD			1
Allen Wrench	1.5mm,2.0mm,2.5mm, 3.0mm,4.0mm		5
Bolt	M5*10		4
	M5*16		43
	M3*14		8
Copper Nut			2
Nut 20M5	20*M5		16
Nut 30M5	30*M5		10
Spring			2
Coupling & Set Screw			2

Part 2: Mechanical Installation

Bakelite:



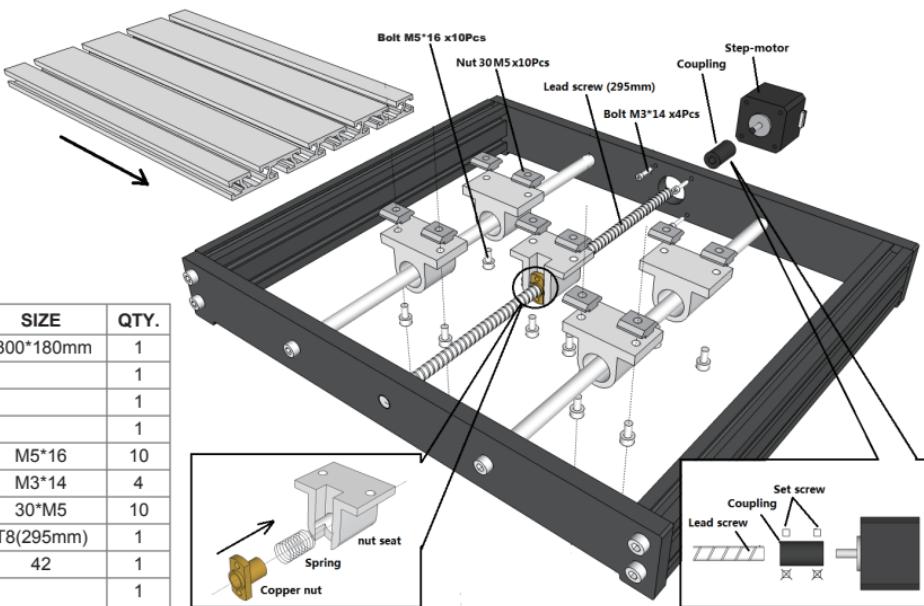
Step 1 Base Installation



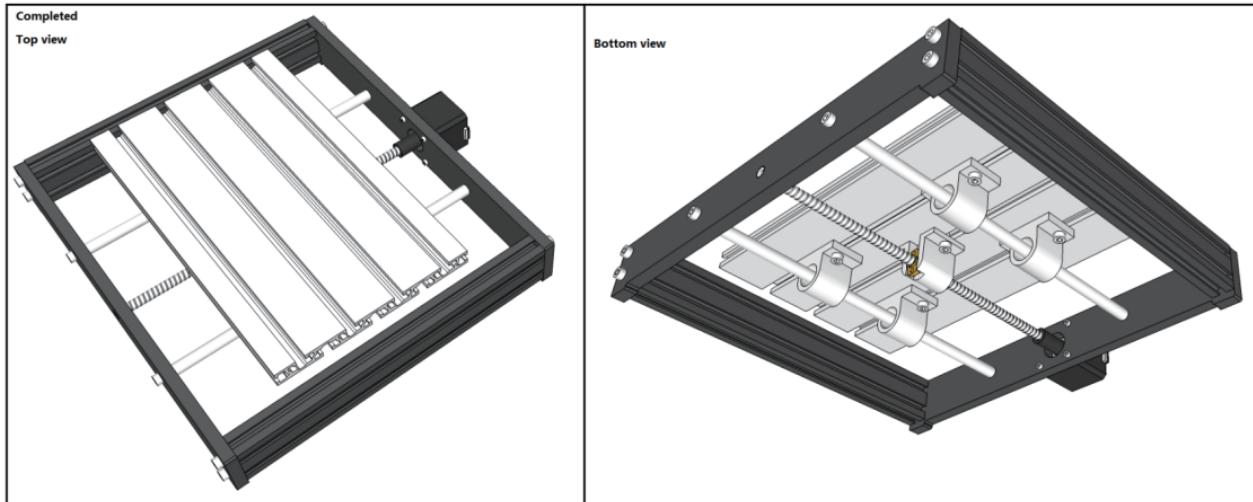
Prepare materials	NO.	NAME	SIZE	QTY.
	1	Aluminum Profile	2040*290mm	2
	2	Phenolic Resin Plate	Bakelite-A	1
	3	Phenolic Resin Plate	Bakelite-B	1
	4	Bolt M5*16	M5*16	12
	5	Slider		4
	6	Guide Rail (Y Axis)	Ø10*290mm	2

Step 2 Table Installation

NO.	NAME	SIZE	QTY.
1	Aluminum Profile	300*180mm	1
2	Copper Nut		1
3	Spring		1
4	Nut Seat		1
5	Bolt	M5*16	10
6	Bolt	M3*14	4
7	Nut 30M5	30*M5	10
8	Lead Screw	T8(295mm)	1
9	Stepmotor	42	1
10	Coupling & Set Screw		1

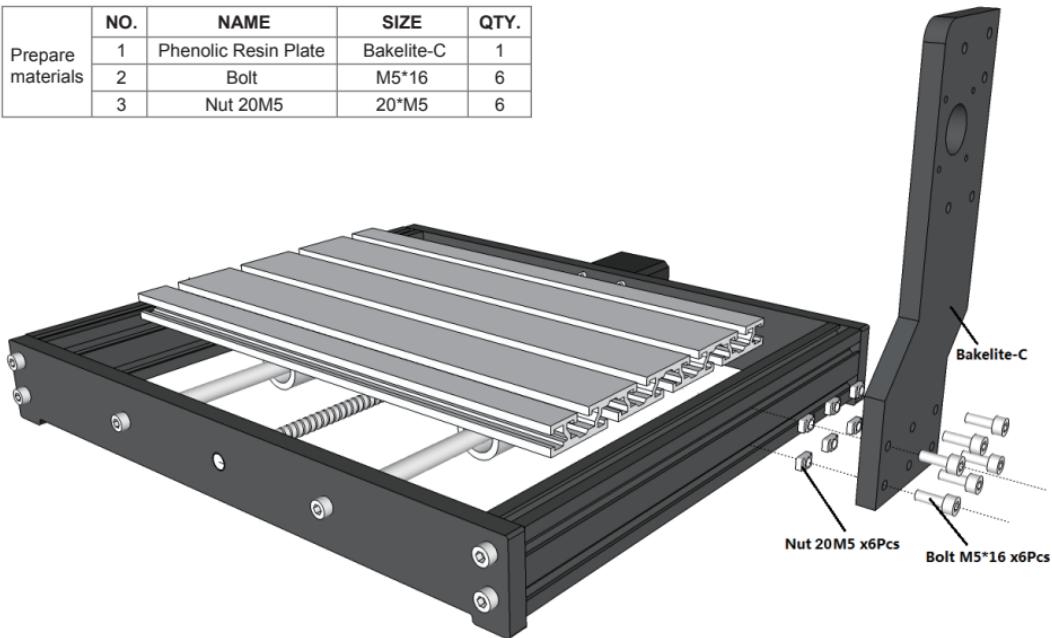


Completed

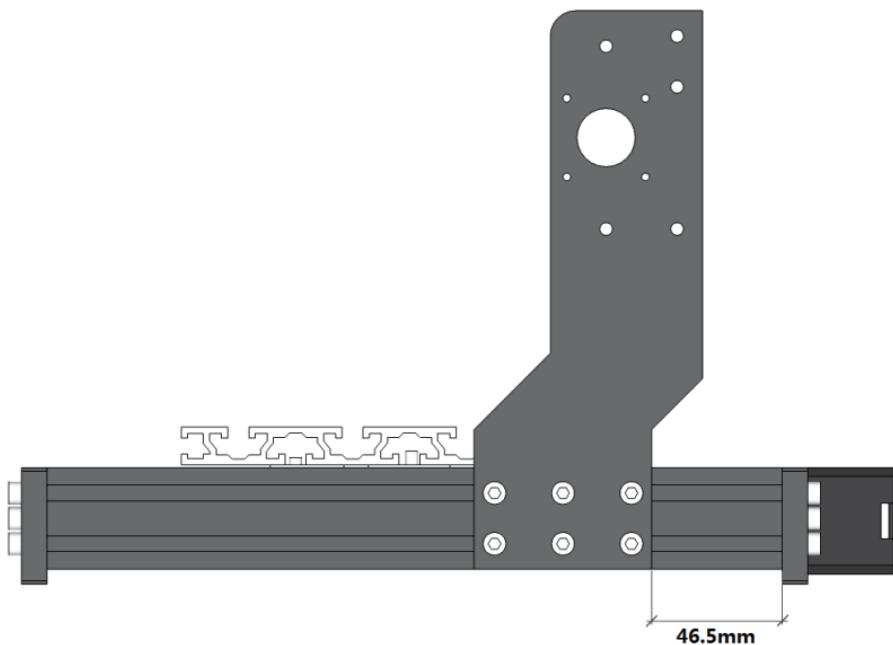


Step 3 Base & Bakelite-C Installation

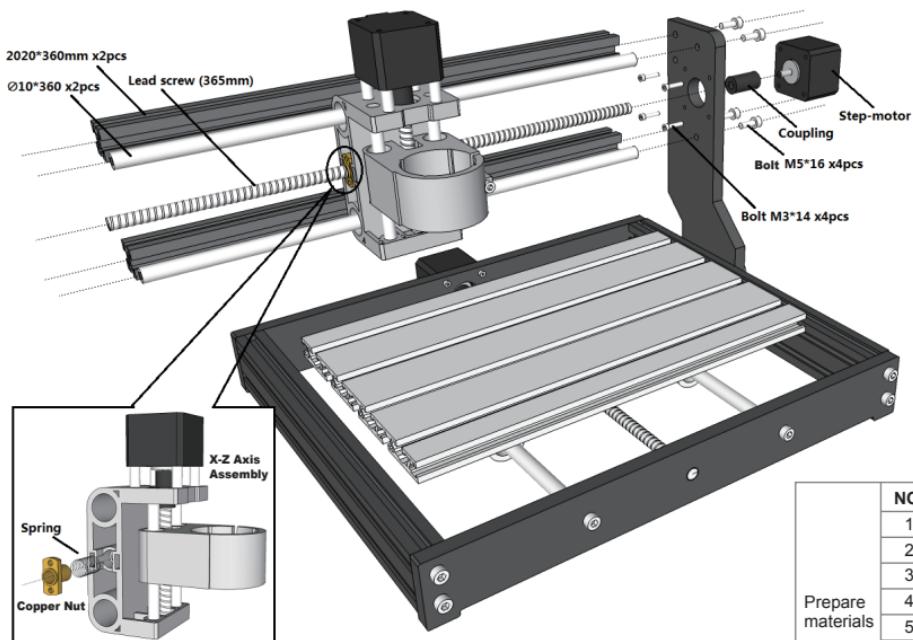
Prepare materials	NO.	NAME	SIZE	QTY.
	1	Phenolic Resin Plate	Bakelite-C	1
	2	Bolt	M5*16	6
	3	Nut 20M5	20*M5	6



Completed



Step 4 X-Z Axis Assembly Installation

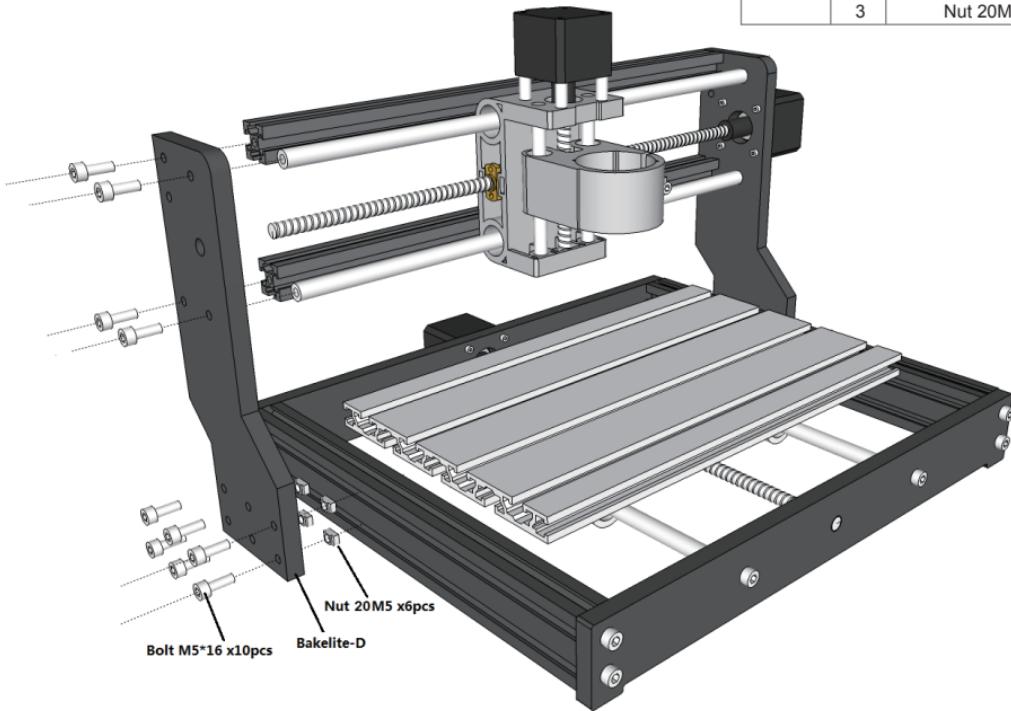


NO.	NAME	SIZE	QTY.
1	X-Z Axis Assembly		1
2	Copper Nut		1
3	Spring		1
4	Aluminum Profile	20*20*360mm	2
5	Guide Rail (X Axis)	Ø10*360mm	2
6	Lead Screw	T8(365mm)	1
7	Coupling & Set Screw		1
8	Bolt	M5*16	4
9	Bolt	M3*14	4

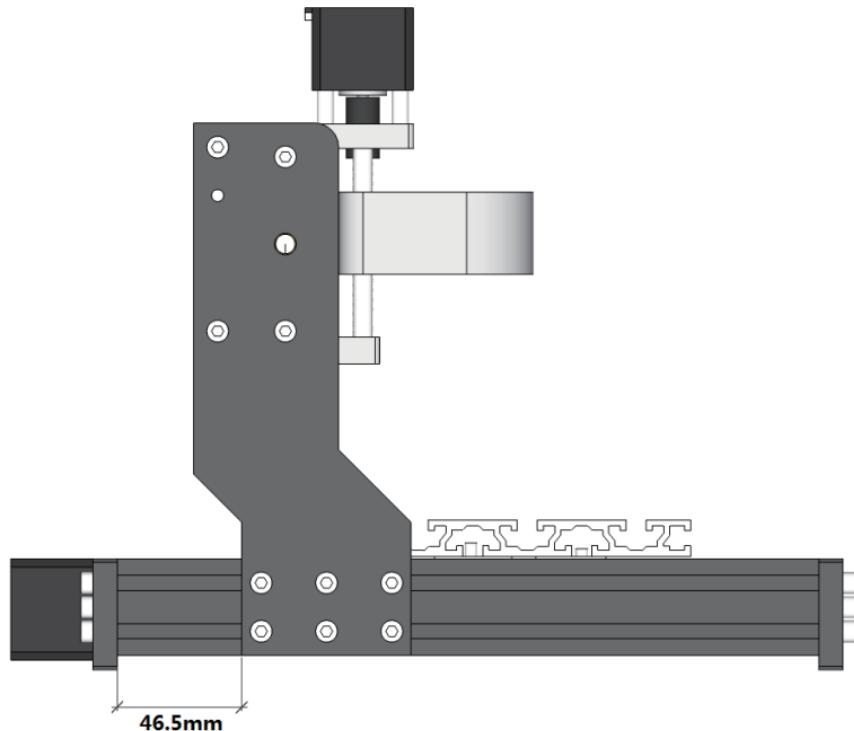
Prepare materials

Step 5 Bakelite-D Installation

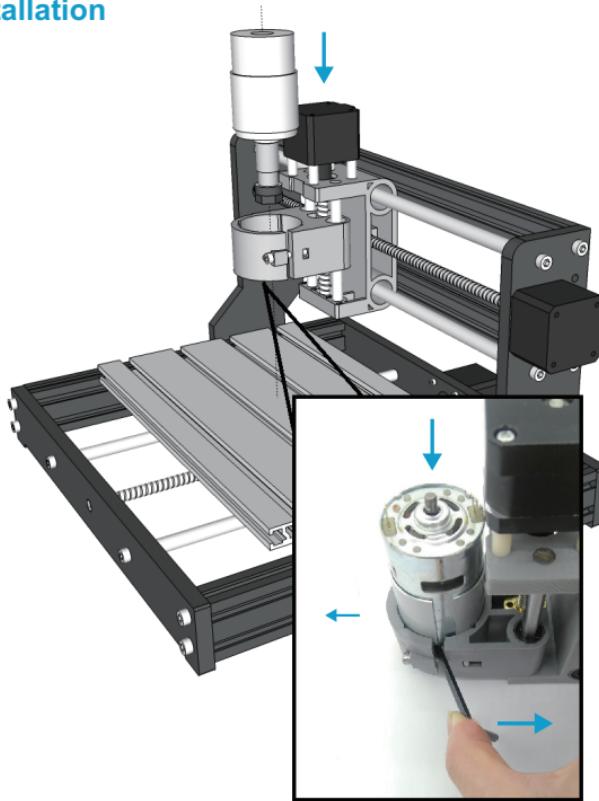
	NO.	NAME	SIZE	QTY.
Prepare materials	1	Phenolic Resin Plate	Bakelite-D	1
	2	Bolt M5*16	M5*16	10
	3	Nut 20M5	20*M5	6

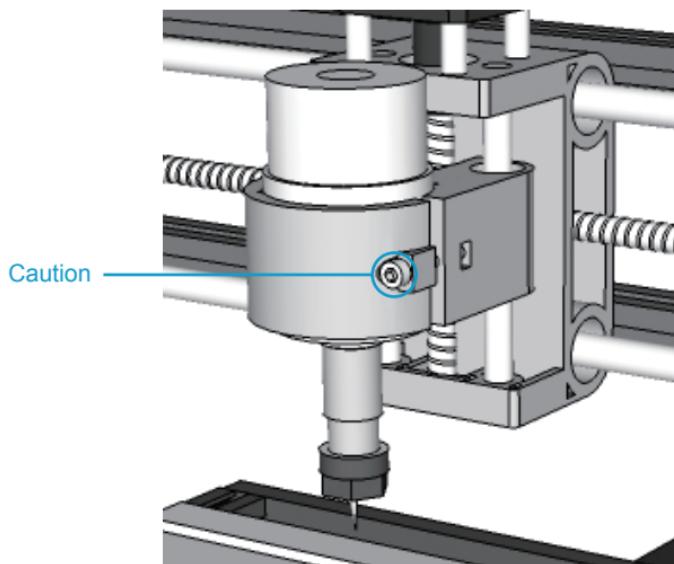


Completed



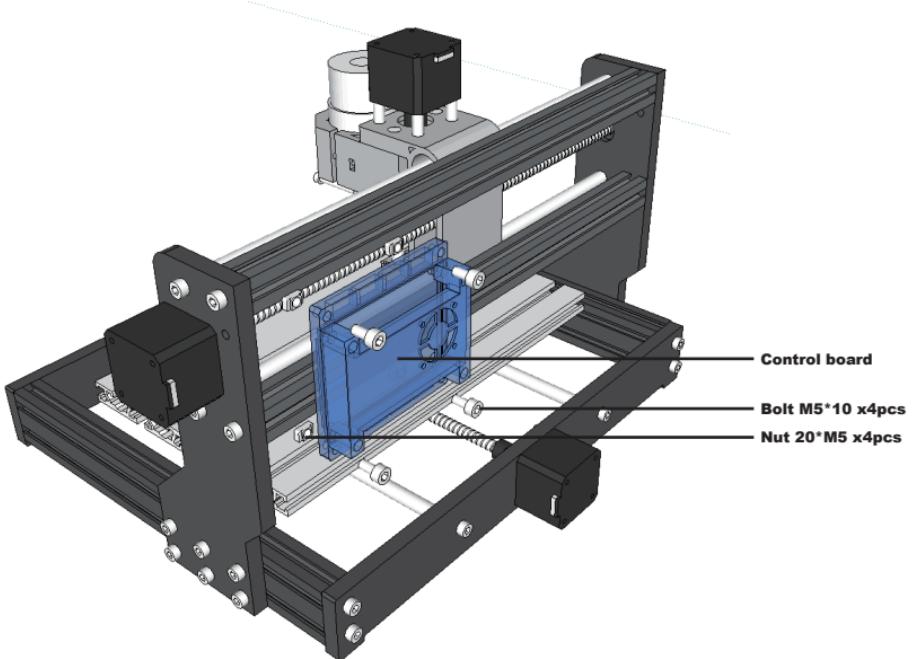
Step 6 Spindle Installation





- Tighten the M4 bolt without using excessive force to prevent plastic damage.

Step 7 Control Board Installation



Step 8 Wiring Diagram

Connect the red wire to the port next to the red mark

Spindle



Stepper motor



Laser (12V 5Amax)
(Not include)

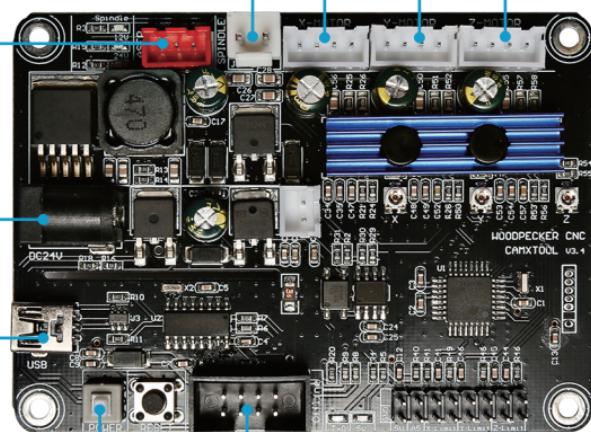


24V DC Power adapter



USB

Connect your CNC to computer using the bundled USB cable



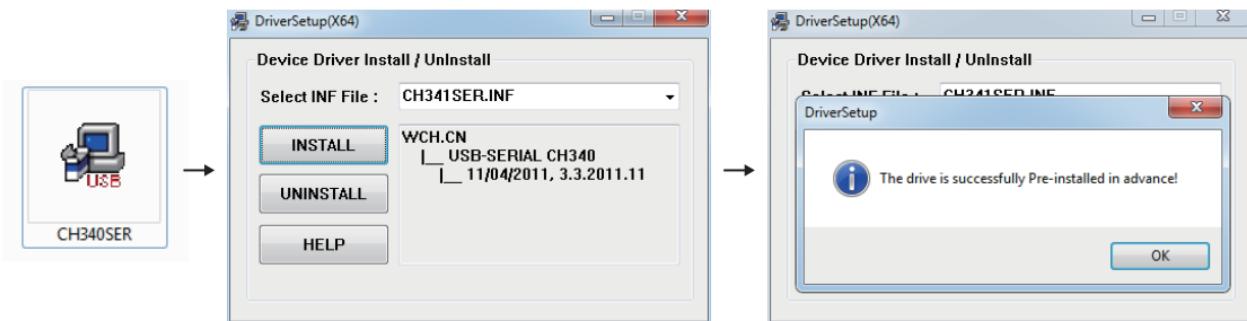
POWER
ON/OFF



Offline controller

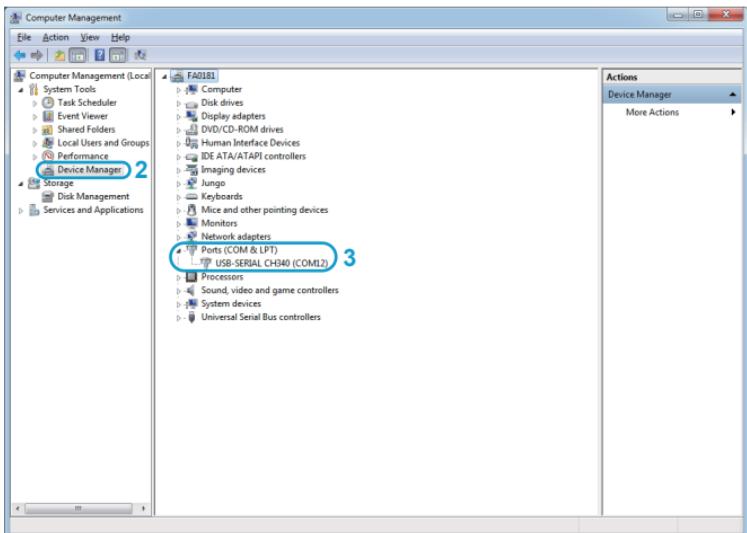
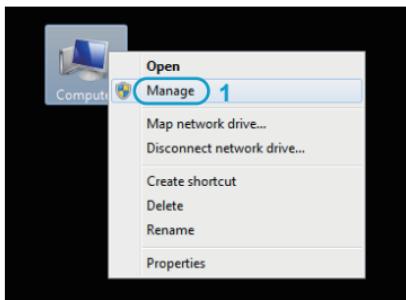
Part 3: Debugging

1. Install the driver (software → Driver → CH340SER.exe)

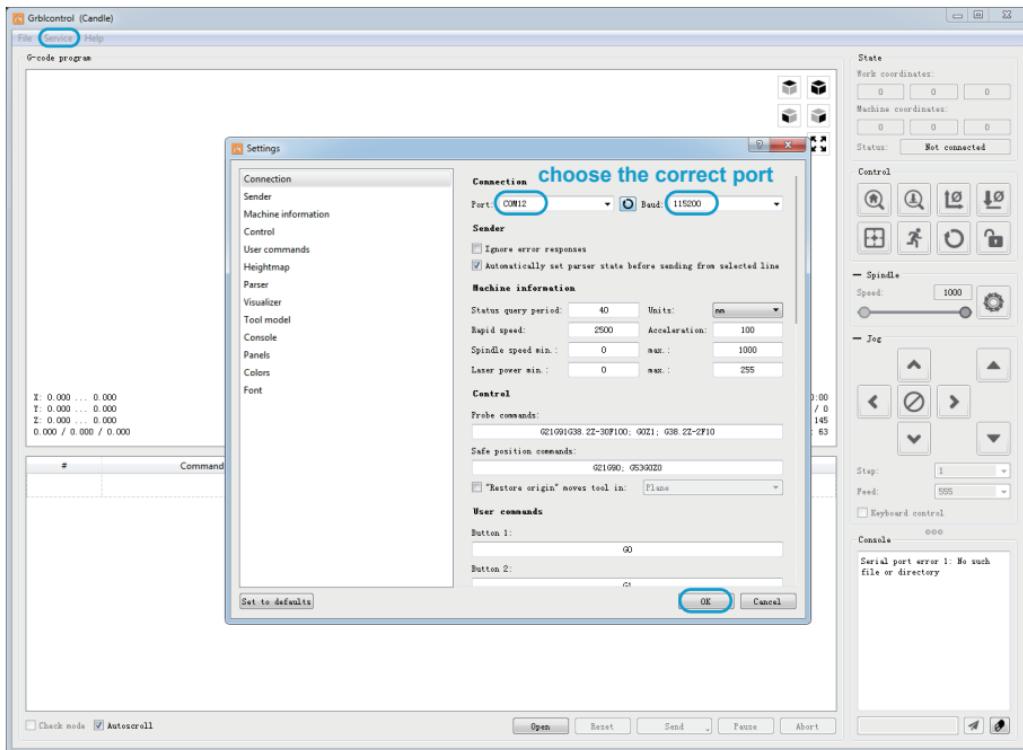


2. To Determine your Machine's COM port:

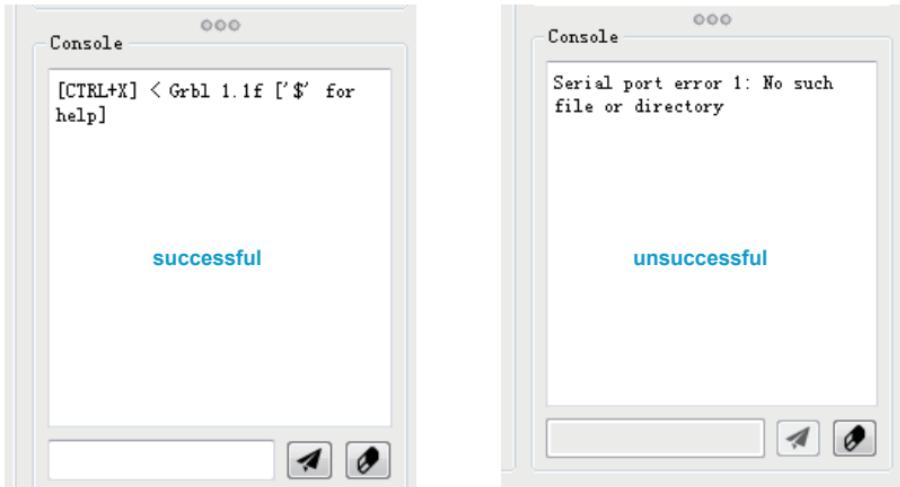
- Windows XP: Right click on "My Computer", select "Manage", select "Device Manager".
- Windows 7: Click "Start" → Right click "Computer" → Select "Manage" → Select "Device Manager" from left pane.
- In the tree, expand "Ports (COM & LPT)"
- Your machine will be the USB Serial Port (COMX), where the "X" represents the COM number, for example COM12.
- If there are multiple USB serial ports, right click each one and check the manufacturer, the machine will be "CH340".



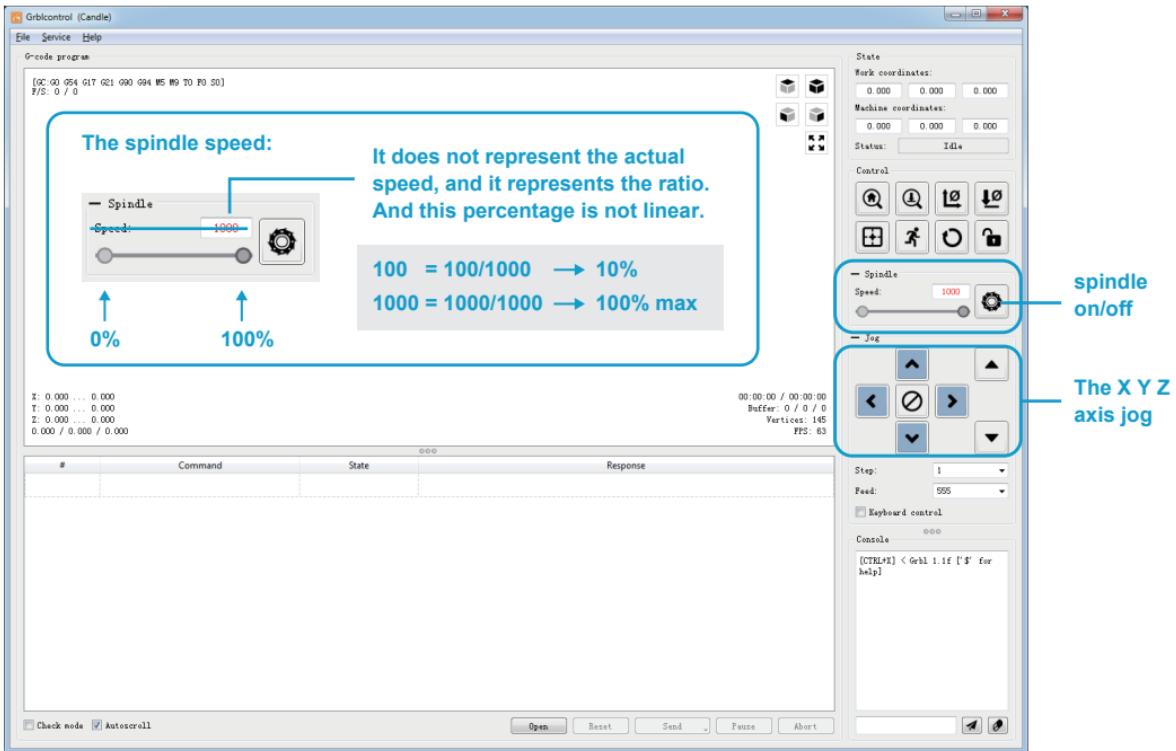
3. Open Grblcontrol software(software → Grblcontrol → GrblControl.exe)



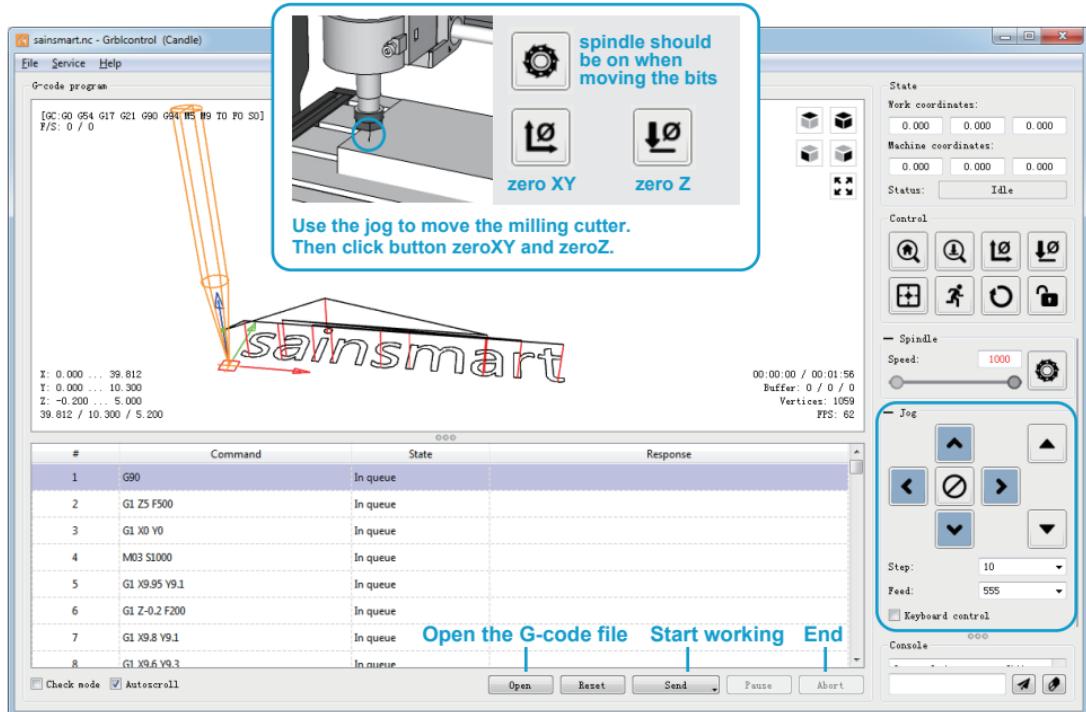
- Console window print " [CTRL+X] < Grbl 1.1f ['\$' for help]" If the connection is successful.
- Console window print " Serial port error 1: No such file or directory " indicate that the connection is failed.



- Grblcontrol Use



- Tool setting



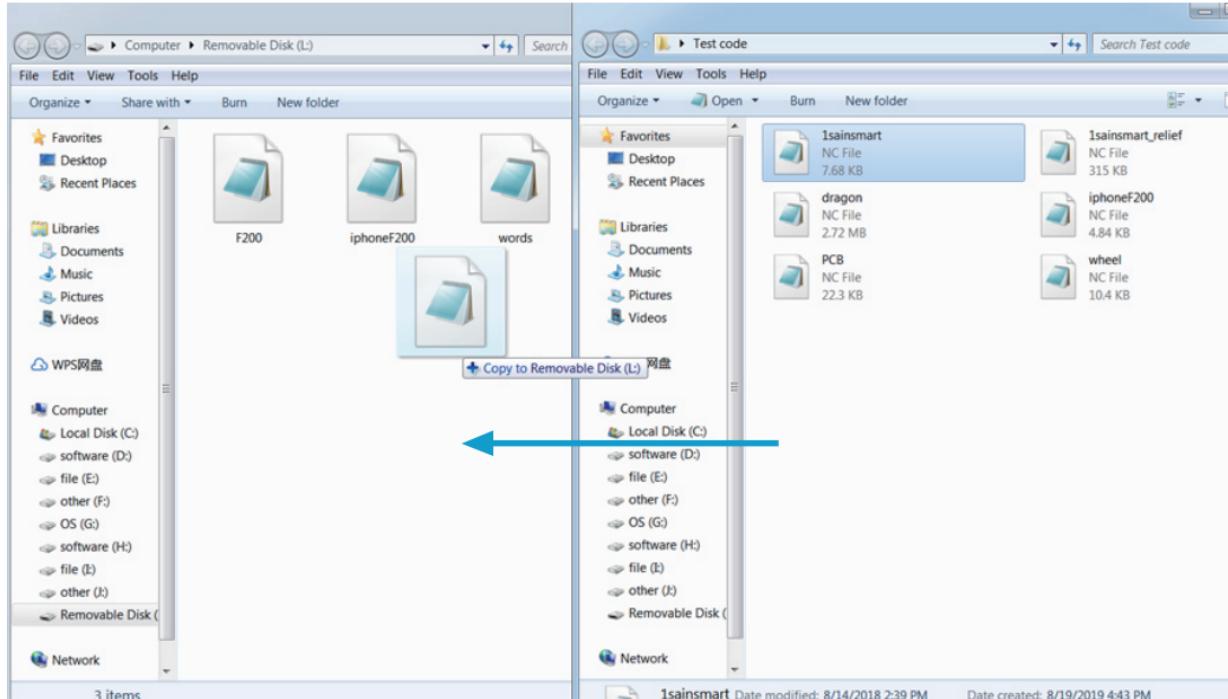
Part 4: Offline Controller

Notice: When using the offline controller, remove the USB cable from the PC. Offline controller and PC cannot be used together.

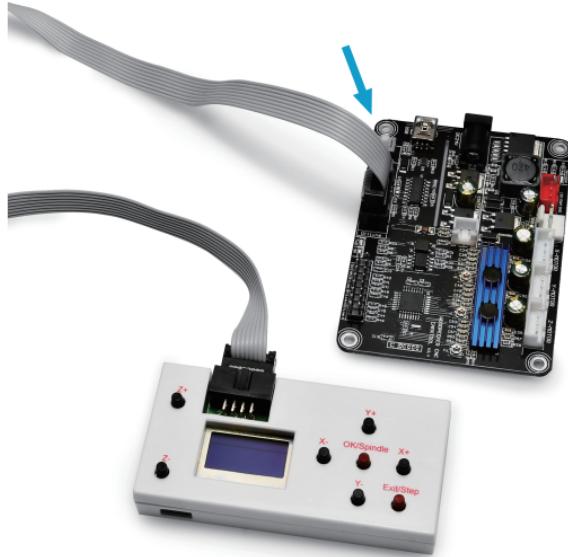
1. Connect offline controller to PC via USB cable.



2. Then copy the NC file to the offline controller.



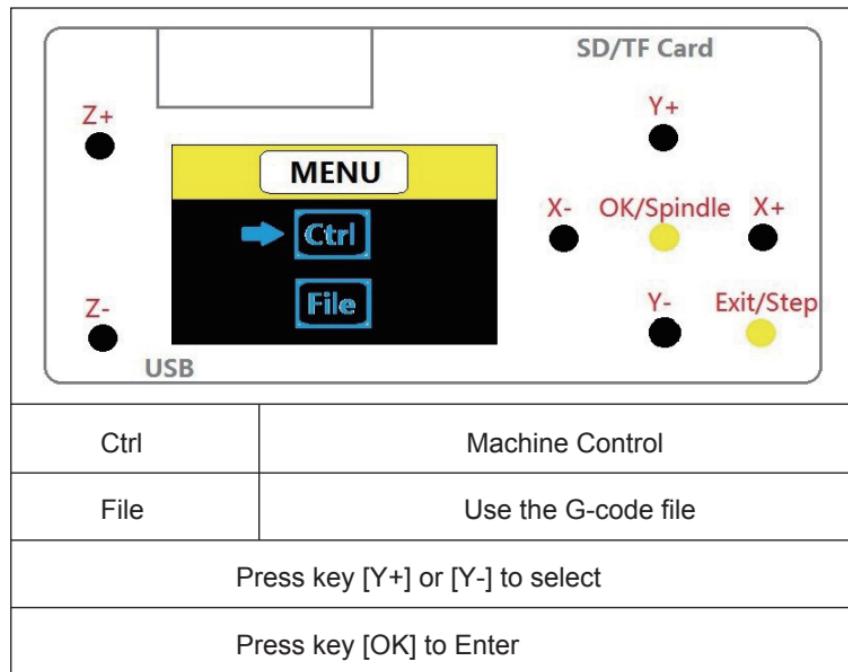
3. Offline controller connected to the control board.



4. Press the [X+/X-/Y+/Y-/Z+/Z-] key to move the spindle to the machine origin, select the engraving file, click the [OK] key to start engraving.

5. Interface introduction

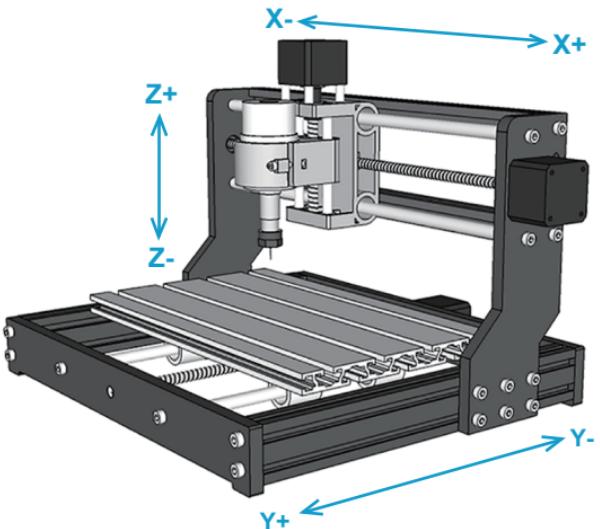
A. Menu Page



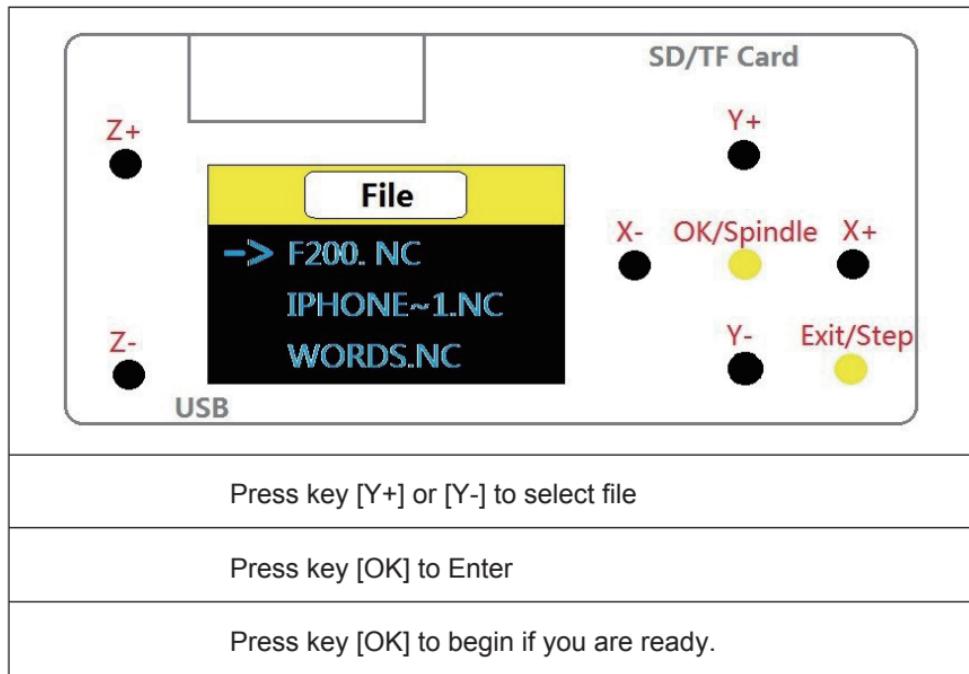
B. Ctrl Page

SD/TF Card	
Z+	
Z-	
X+	X-axis positive direction
X-	X-axis negative direction
Y+	Y-axis positive direction
Y-	Y-axis negative direction
Z+	Z-axis positive direction
Z-	Z-axis negative direction
OK/Spindle(SP)	Spindle On/Off
Exit/Step	Long press to exit, short press to change step (0.1/1/5/10mm)
SP:1%	Power to spindle (Press [OK]+[Z+]=add, Press [OK]+[Z-]=reduce)

Reference direction



C. File Page





www.sainsmart.com

support@sainsmart.com

2711 Centerville Road, Wilmington, DE, 19808, United States