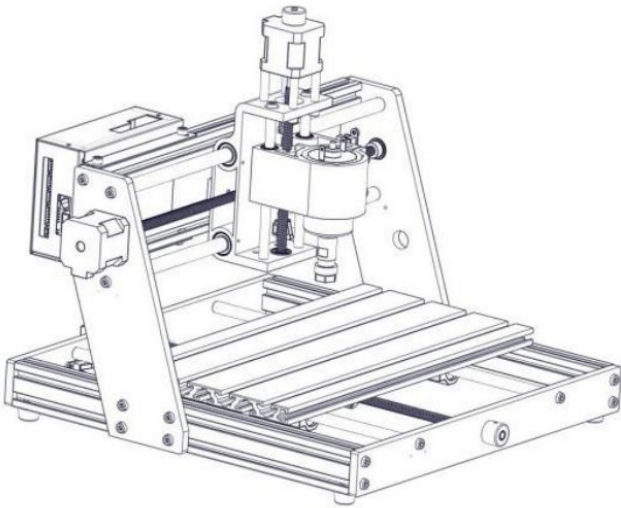




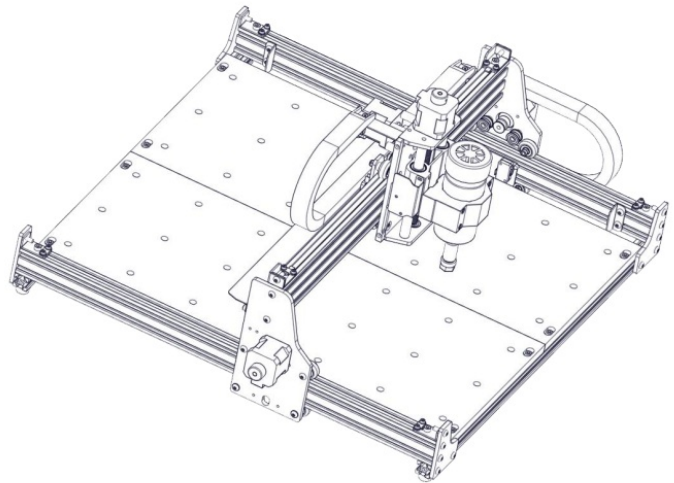
## VEVOR S3020 CNC Router Machine User Manual

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### VEVOR S3020 CNC Router Machine



S3020



S4040

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## Introduction

We continue to be committed to provide you tools with competitive price. "Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

### NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:



[CustomerService@vevor.com](mailto:CustomerService@vevor.com)

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation four user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform again there are any technology or software updates on our product.






**Warning**-To reduce the risk of injury, user must read instructions manual carefully.

## INSTALLATION STEPS

**MODEL:S3020**

### A. Mounting Control Box

	NO.	Name	QTY	
Required Parts	1	Gantry frame	1	
	2	Control Box	1	
	3	M5*6 Screws	4	

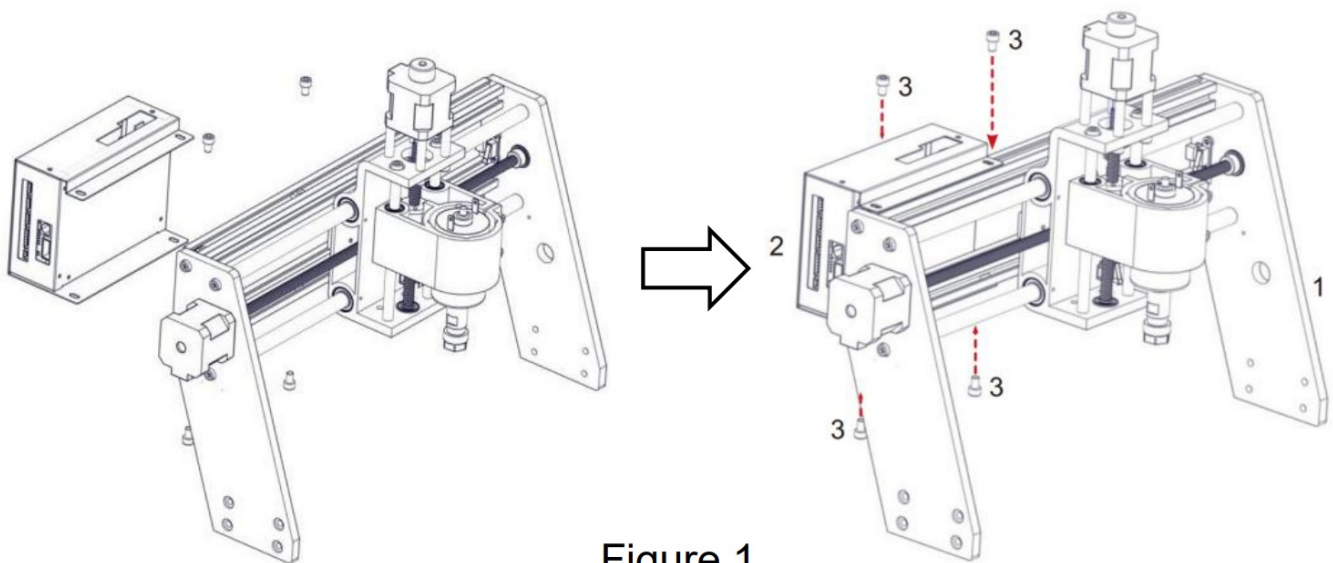

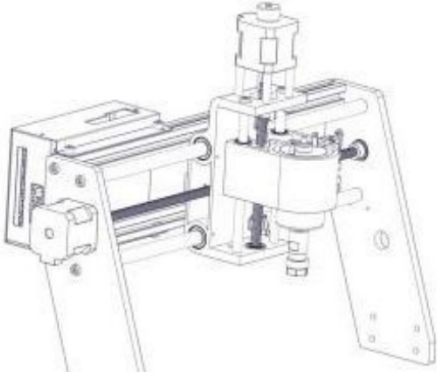
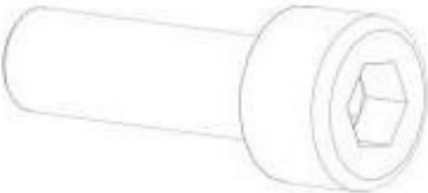


Figure 1

#### Step

As shown in Figure 1, place the control box on the gantry frame and fix it with M5\*6mm screws.

#### B. Mounting base

	NO.	Name	QTY	
Required Parts	4	Base	1	
	5	Gantry frame	1	
	6	M5*20 Screws	8	

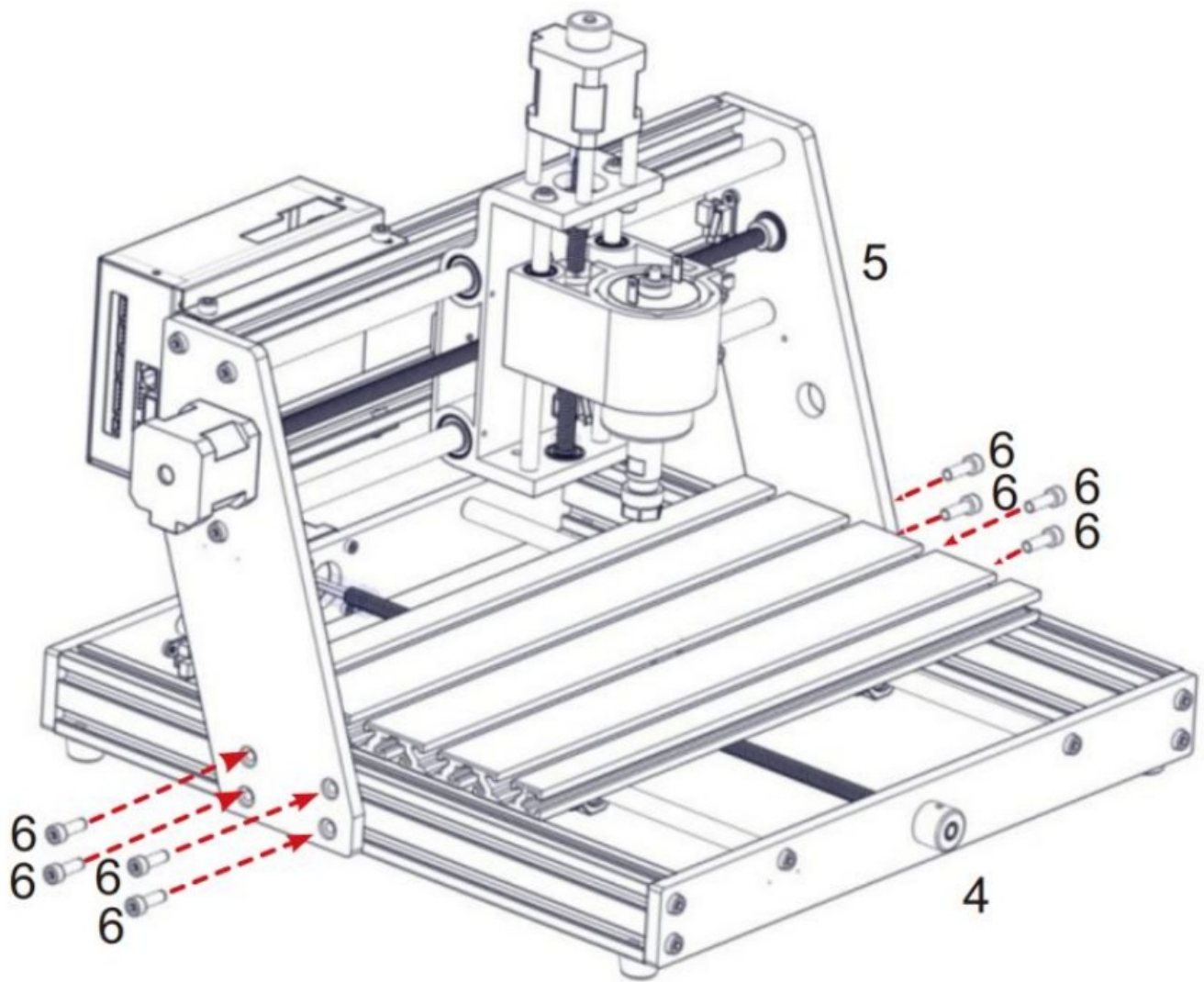
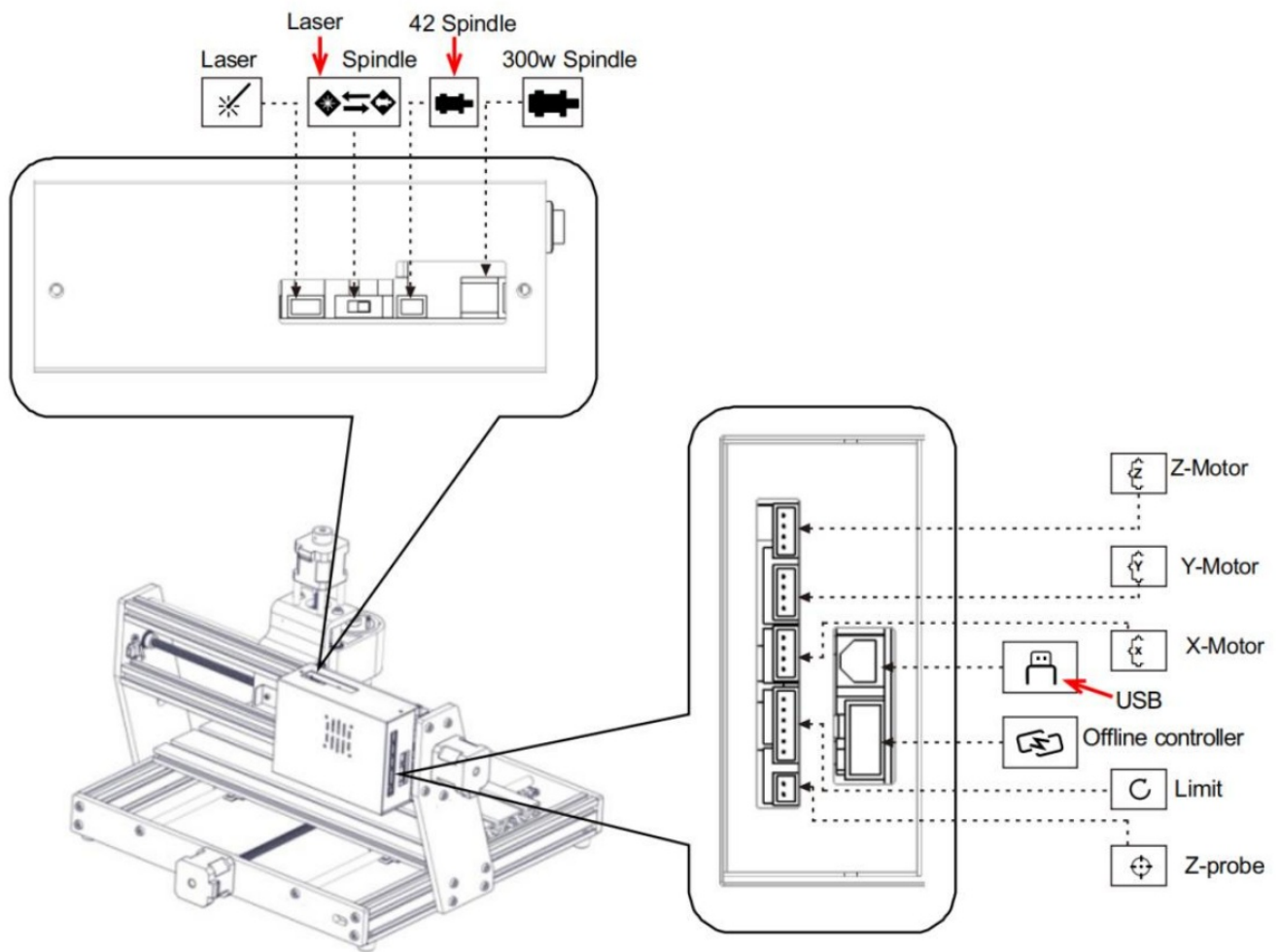


Figure 2

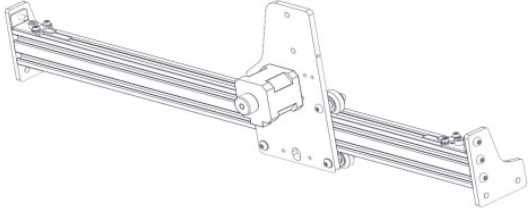
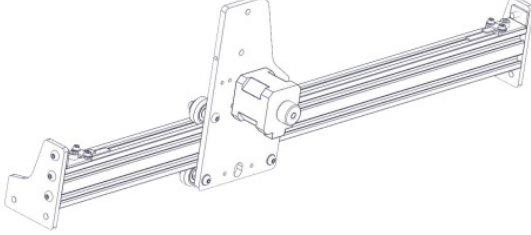


**Step**

As shown in Figure 2, place the gantry on the base and secure it with M5\*20 mm screws.

**C. Interface diagram**



**MODEL:S4040**  
**A. Mounting base**

Required Parts	Name	QTY	
	Right side of the Y axis	1	
	Left side of Y axis	1	
	Base structure	2	
	M5*16 Screws	8	

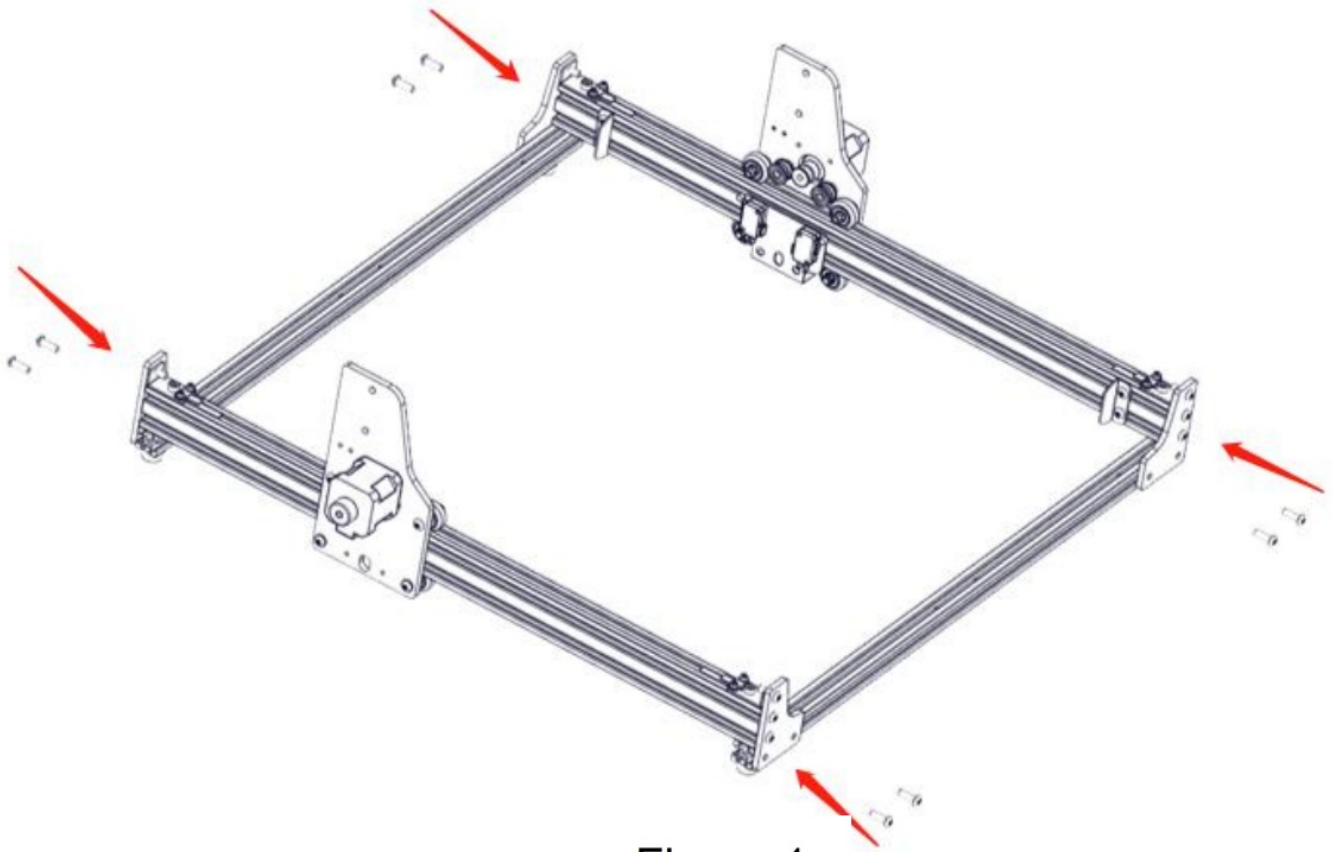


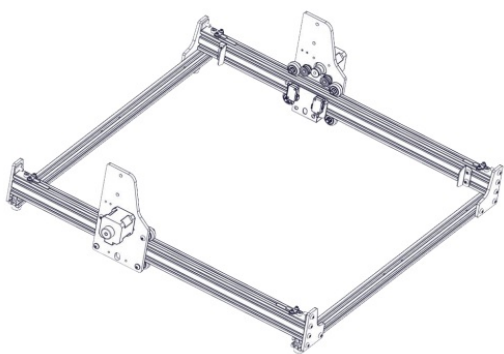
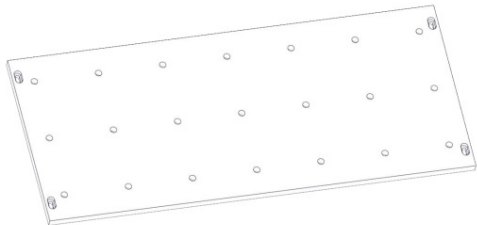

Figure 1

**Step**

1. The base structure and left and right Y axis are placed as shown in Figure 1.
2. Fix it with M5\*16 screws (as shown by arrow).

**D. Install the panel**



Required Parts	Name	QTY	
	Base	1	
	Panel	2	
	M5*20mm Screws	8	

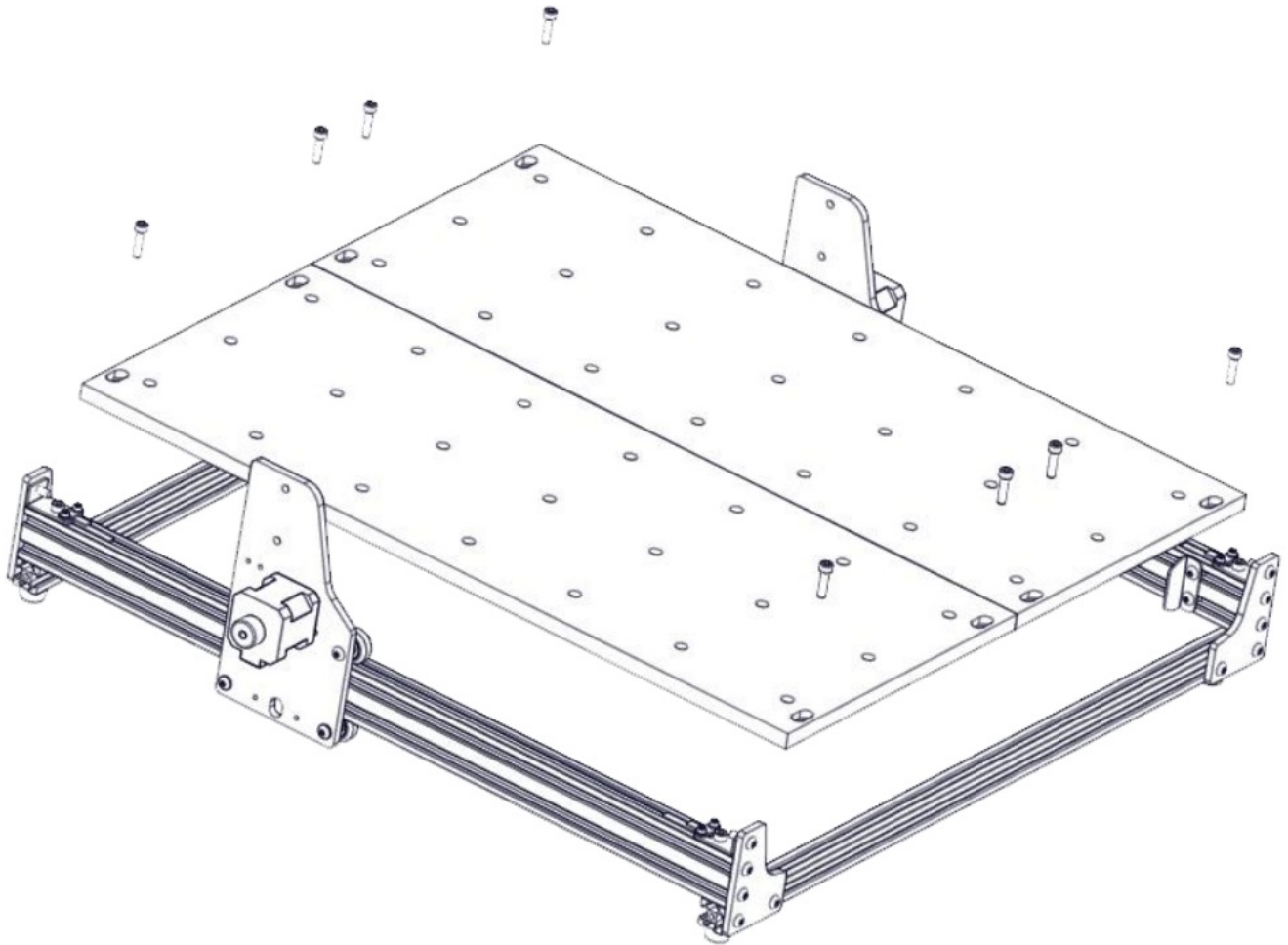
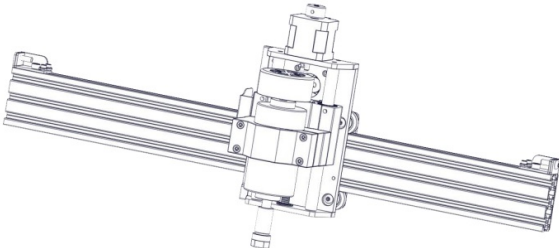



Figure 2

**Step**

1. Place the panel neatly on the base and align the screw holes.
2. Secure the panel to the base using M5\*20mm screws.

**E. Install the gantry**

Required Parts	Name	QTY	
	Gantry frame	1	
	M5*16 Screws	4	

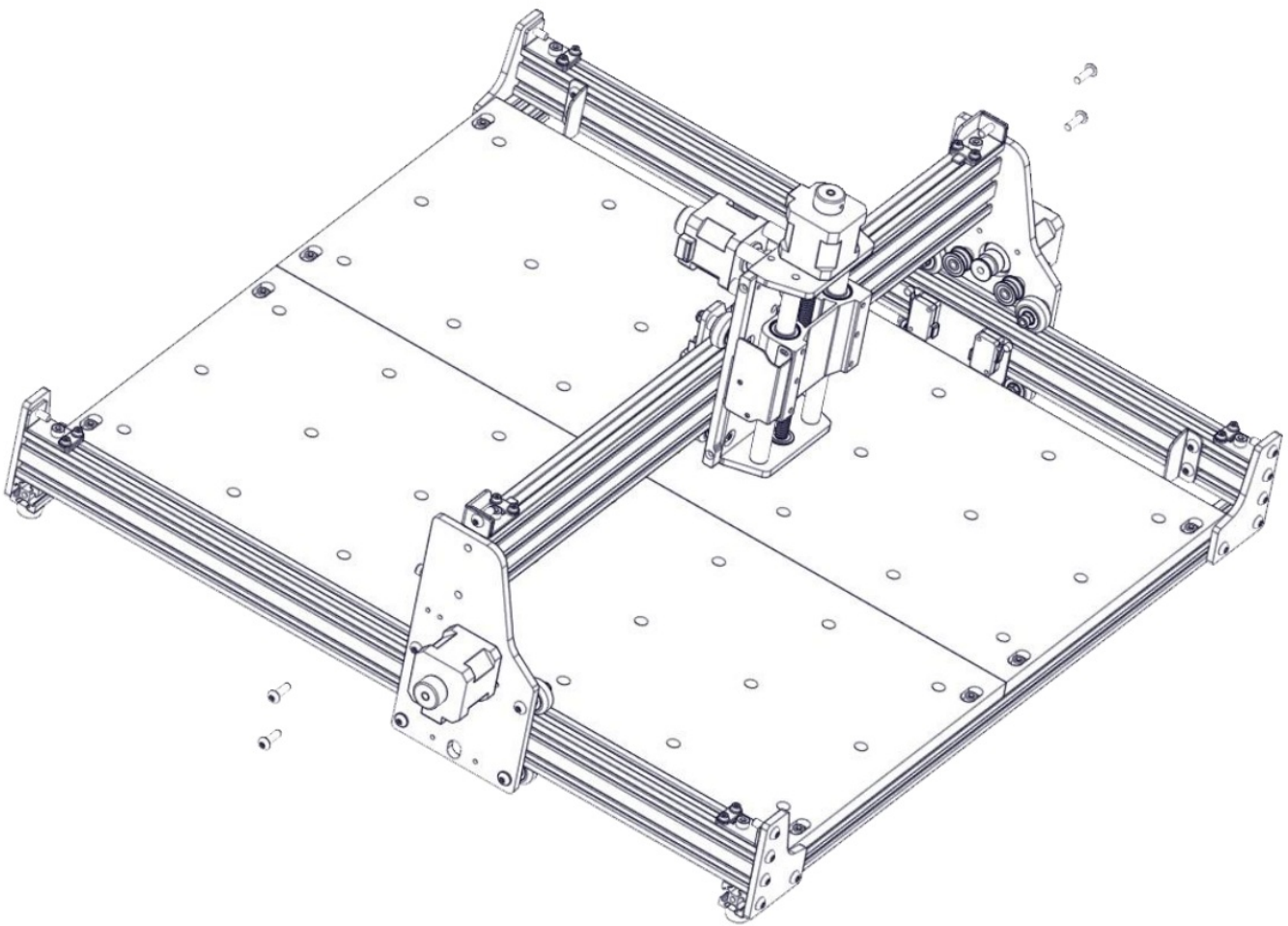
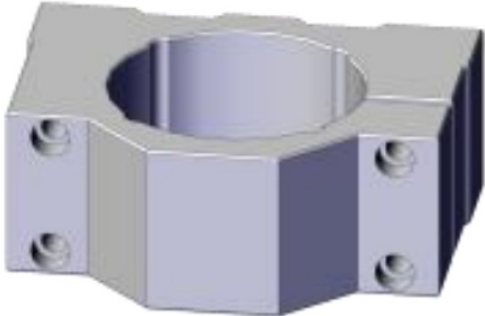




Figure 3

#### Step

1. Place the gantry frame on the left and right Y axis as shown in Figure 3.
2. Secure the gantry frame to the Y axis with M5\*16 screws.

#### F. Mounting spindle

Required Parts	Name	QTY	
	Motor fixture	1	
	Spindle motor	1	
	M5*55 Screws	4	

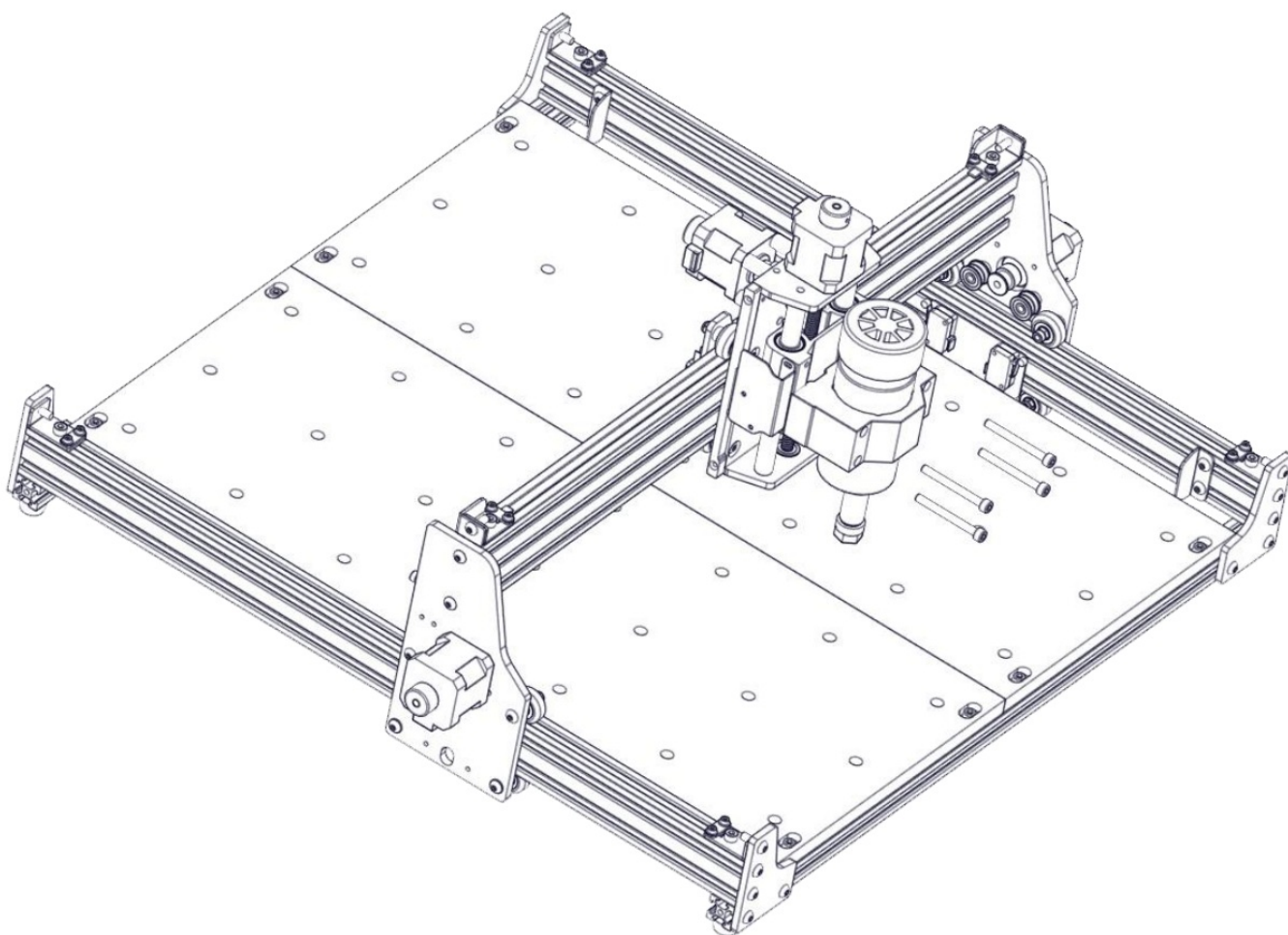
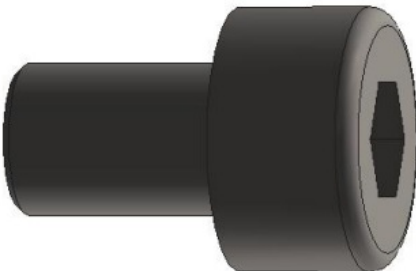


Figure 4

Step

1. Place the main shaft on the gantry frame as shown in Figure 4.
2. Fix the main shaft to the gantry frame with M5\*55 screws.

#### G. Install the Y-axis fastener

Required Parts	Name	QTY	
	Tow chain fastener [1]	1	
	Tow chain fastener [2]	1	
	M4*6 Screws	4	

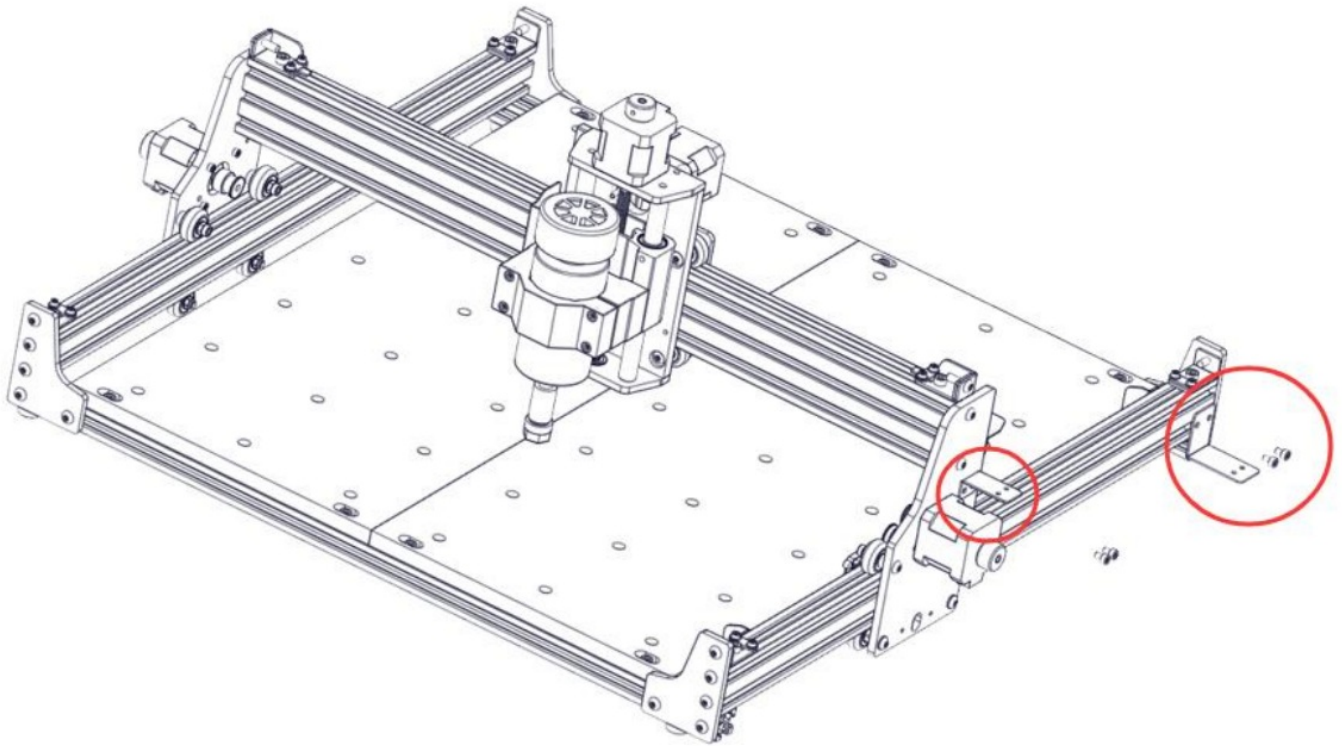
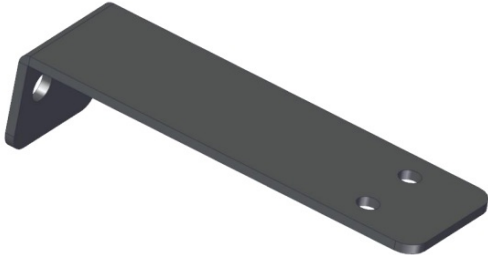



Figure 5

#### Step

Place the two tow chain fasteners as shown in Figure 5 and fix them with M4\*6 screws.

#### H. Install the X-axis fastener

Required Parts	Name	QTY	
	X-axis tow chain fastener	1	
	M4*6 Screws	2	



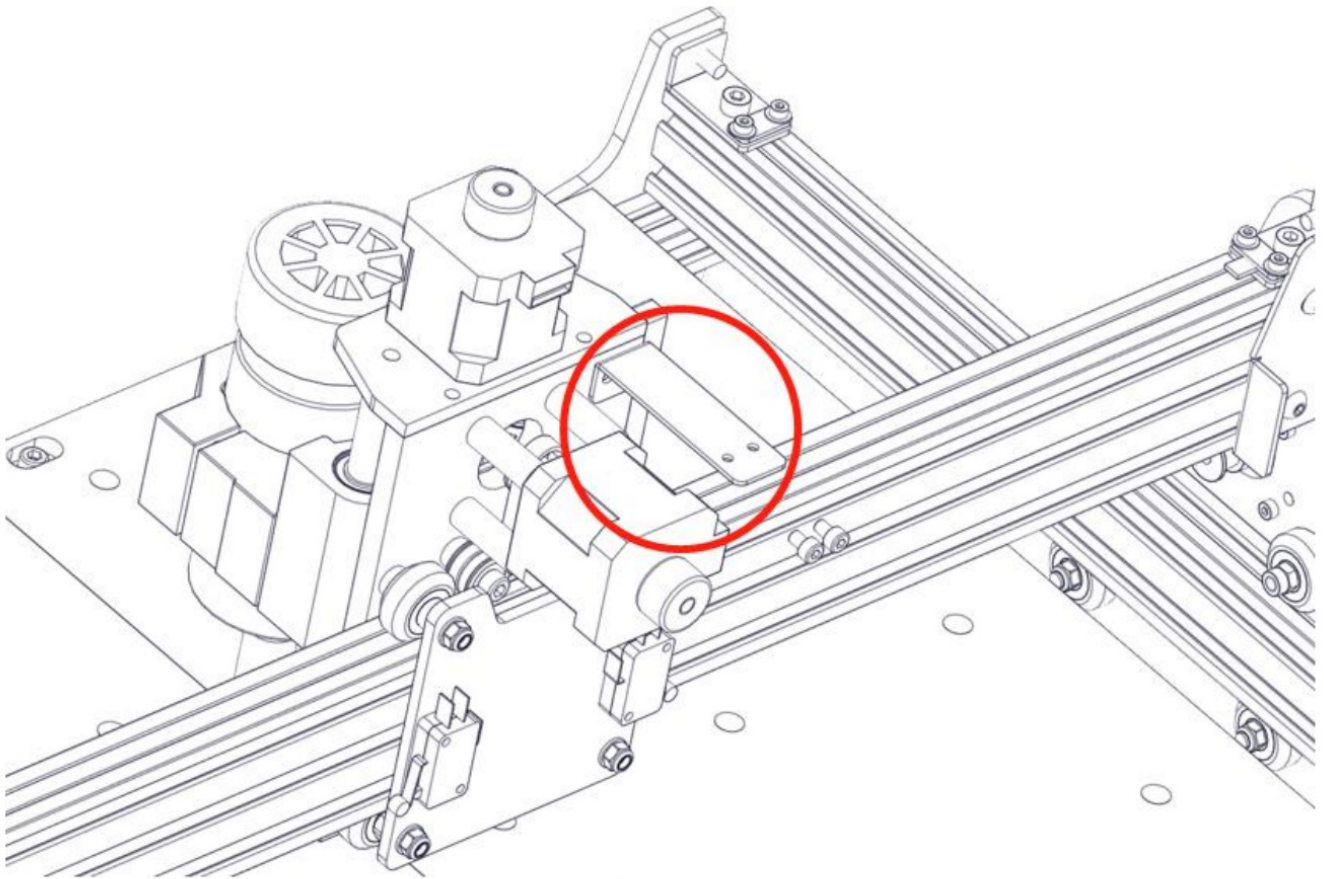




Figure 6

#### Step

Place the X-axis towing chain fastener as shown in Figure 6 and fix it with M4\*6 screws.

#### I. Install X – axis drag chain plate

Required Parts	Name	QTY	
	X-axis drag chain plate	1	
	M4*6 Screws	2	

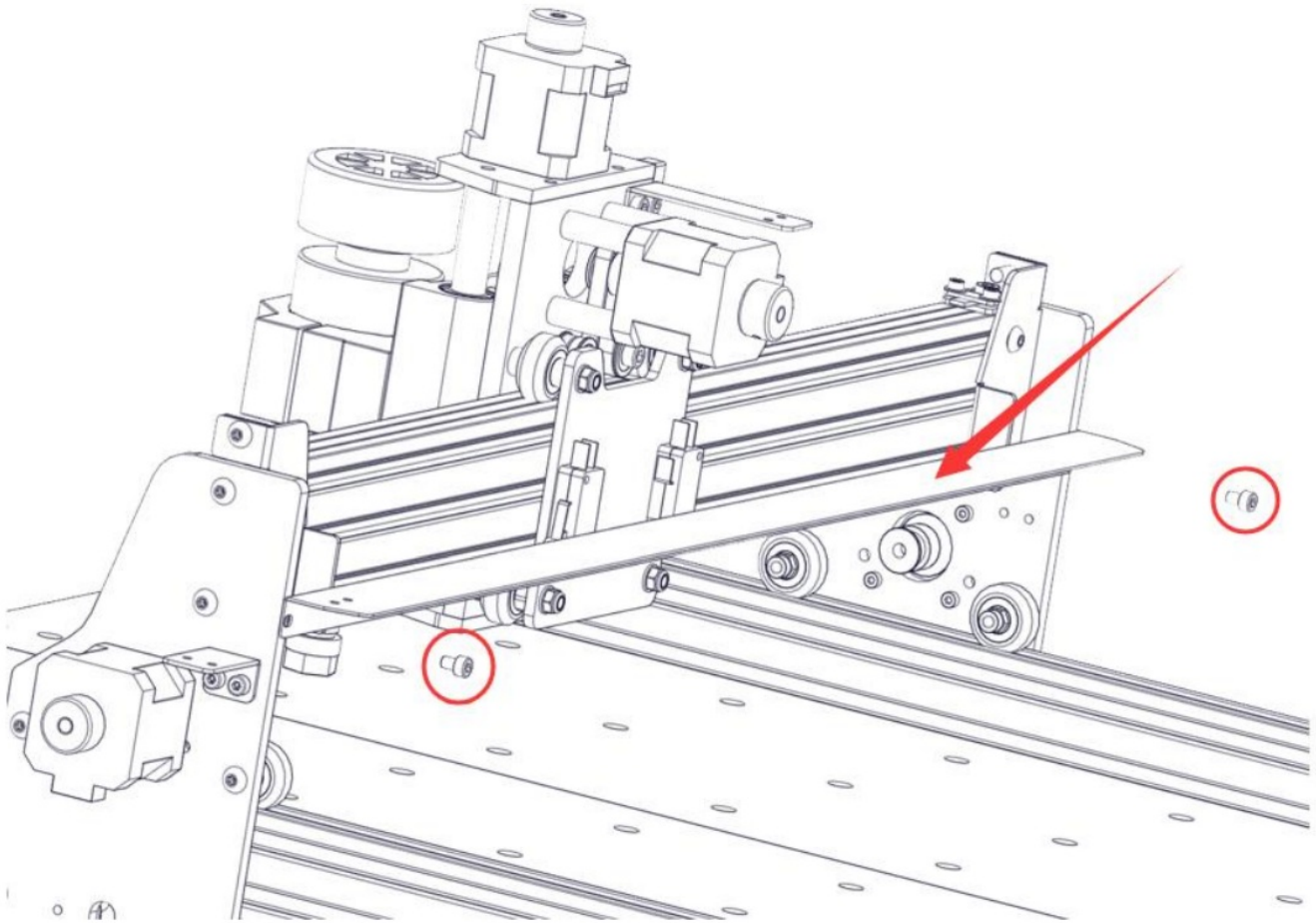




Figure 7

### Step

Place the X-axis drag chain plate as shown in Figure 7 and fix it with M4\*6 screws.

### J. Mounting tow chain

Required Parts	Name	QTY	
	X-axis drag chain plate	2	
	M4*6 Screws	2	



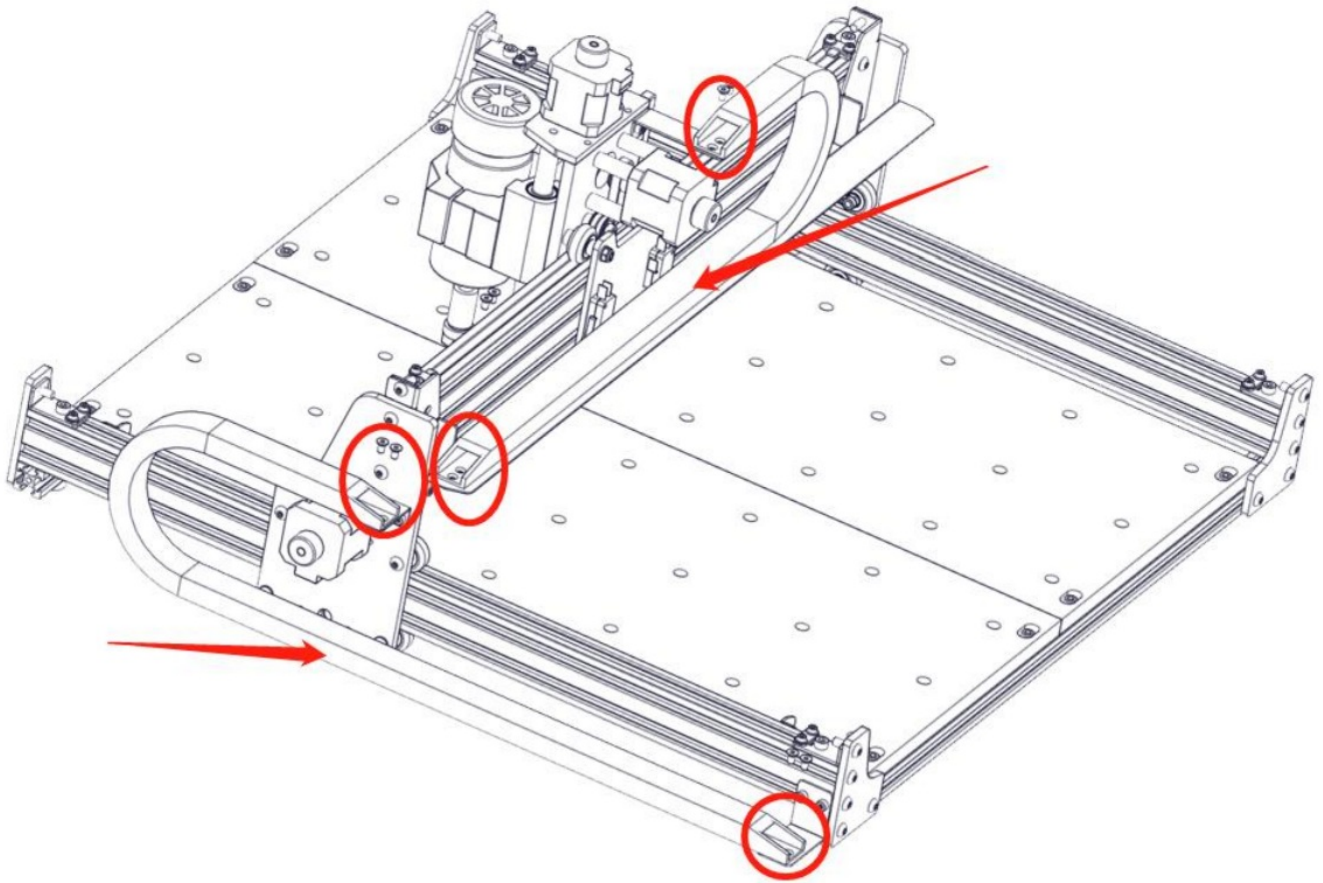
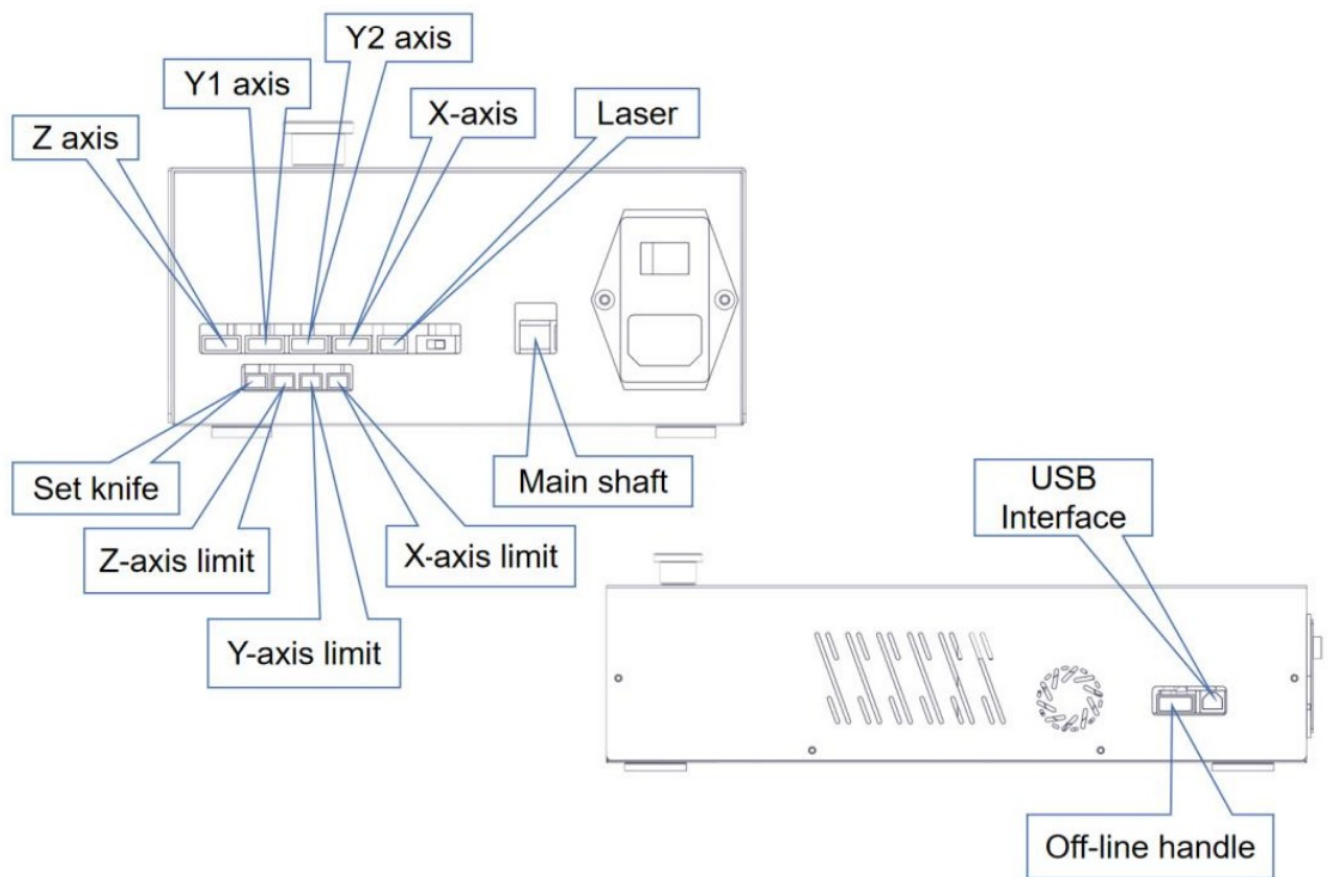


Figure 8

**Step**

Place the tow chain as shown in Figure 8 and secure it with M4\*6 screws.

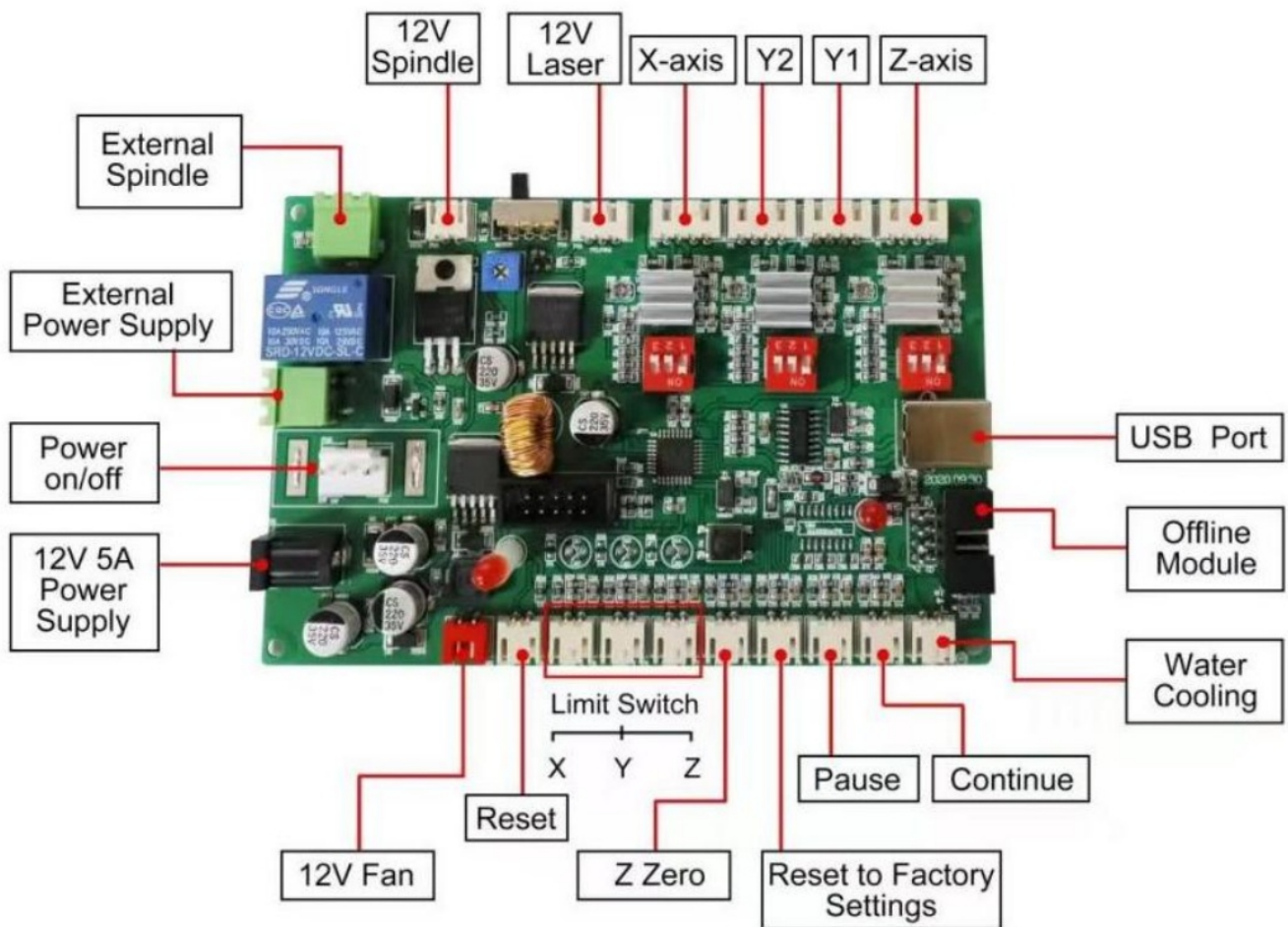
**K. Interface diagram**



## LIST OF PARTS

Name	Quantity	
	S3020	S4040
USB cable	1	1
Knife block	1	1
Block bolt	4	4
Press block	4	4
Harness fixing frame	/	3
Brush	1	1
Test carving plate	1	1
Assembly screw	1 Bag	1 Box
Wrench	2(Wrench No. 13/15; 14/17)	2(Wrench No. 13/15; 14/17)
Hexagon socket	4(No.2; 2.5,3,4)	4(No.2; 2.5,3,4)
Flat mouth knife	10	10
Harness	1	1
Control chassis	/	1
Touch offline controller	1	1
Usb flash drive	1	1
Power adapter	1	/

## CONTROL BOARD WIRING

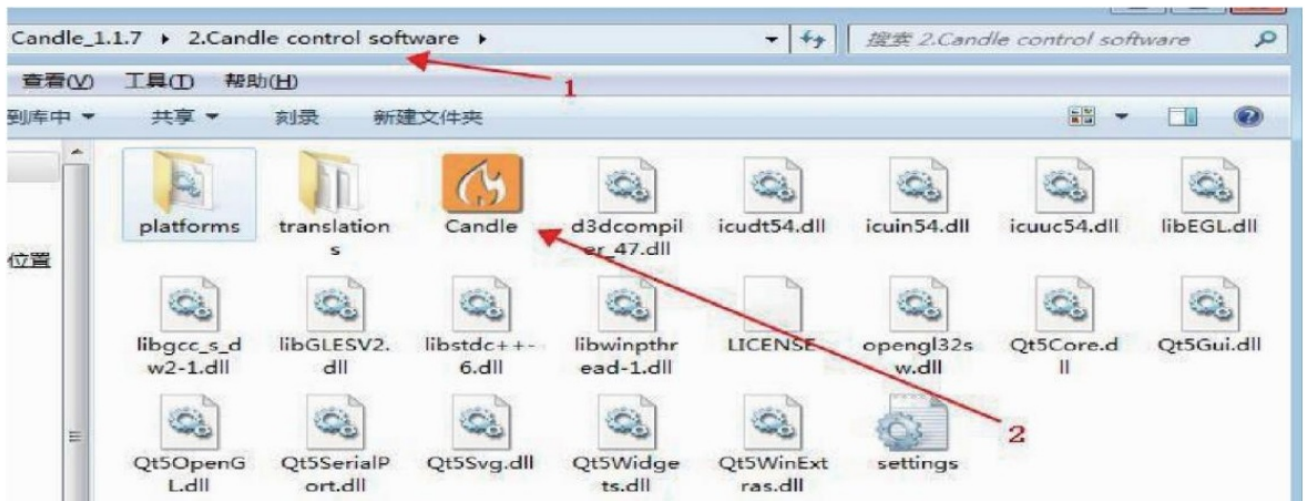


## ENGRAVING MACHINE SOFTWARE INSTALLATION INSTRUCTIONS

1. Install the driver (Download from U disk)

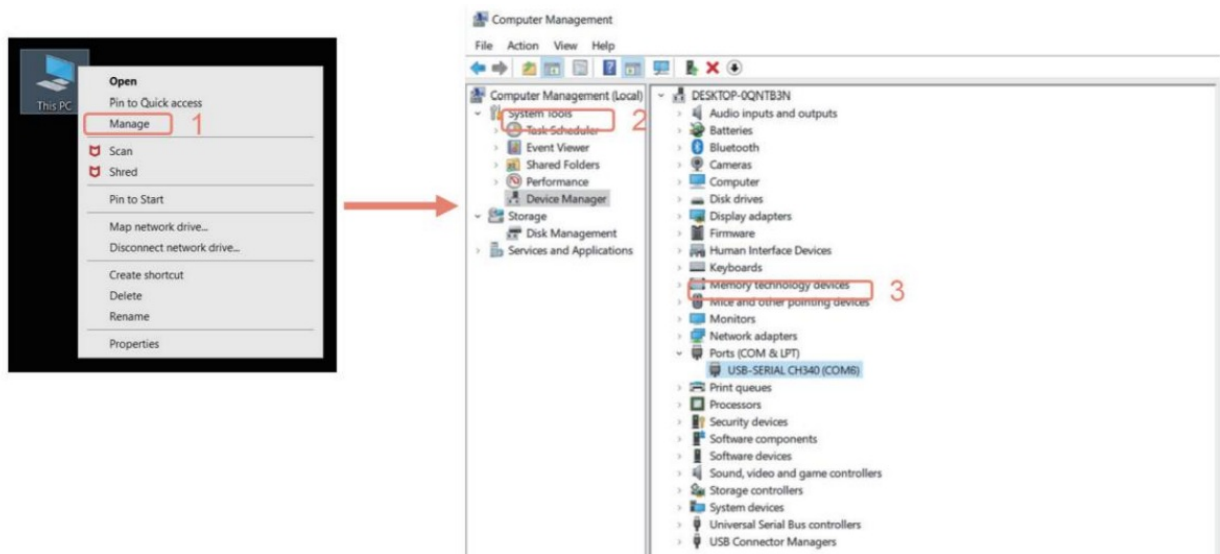


2. Open the control software



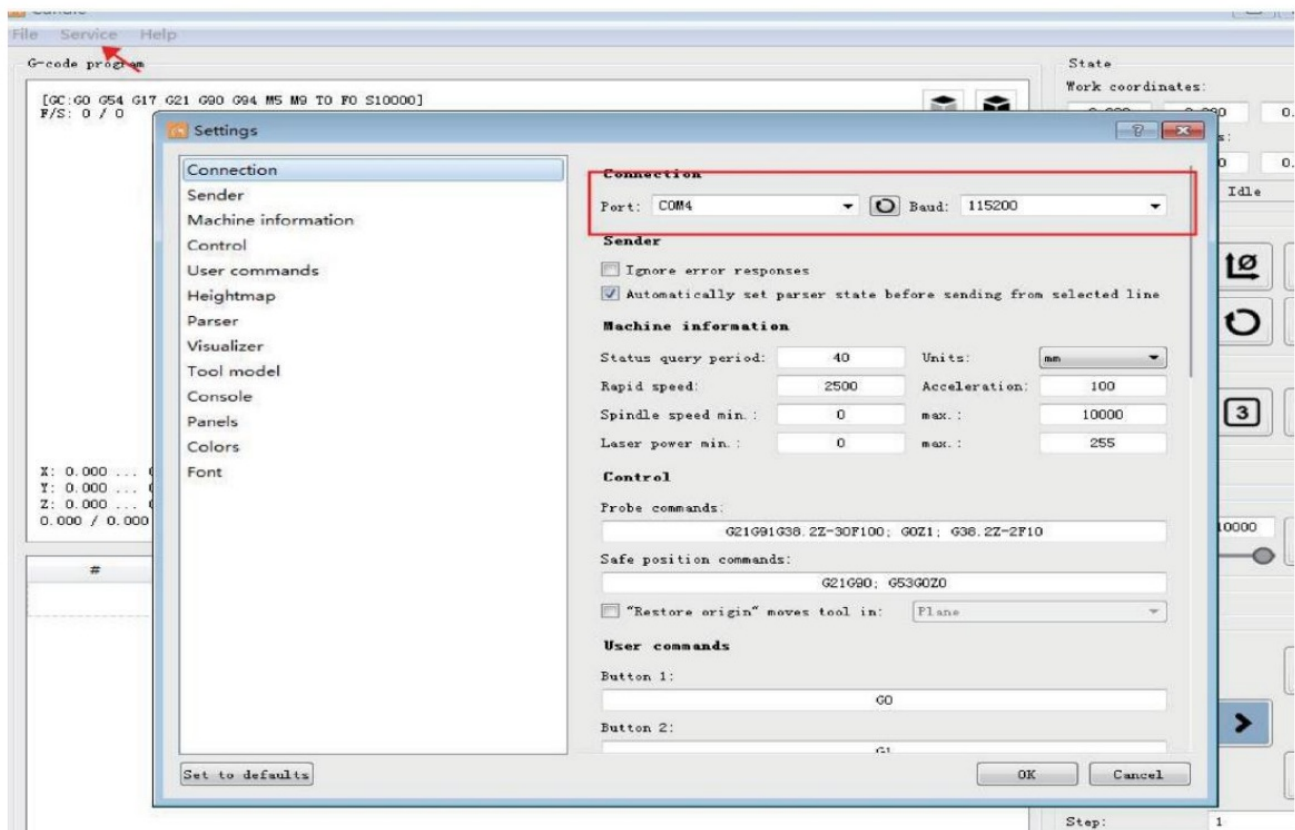
### 3. To Determine your Machine's COMport:

- For Windows XP: Right click "My Computer"→Select "Manage"→Select"Device Manager". For Windows 7: Right click "Computer"→ Select "Manage" →Select "Device Manager" from left pane.
- For Windows 10: Right click "This PC"→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 COM6.
- If there are multiple USB serial ports, right click each one and check the manufacturer, the machine will be "CH340". Select port and baud rate.

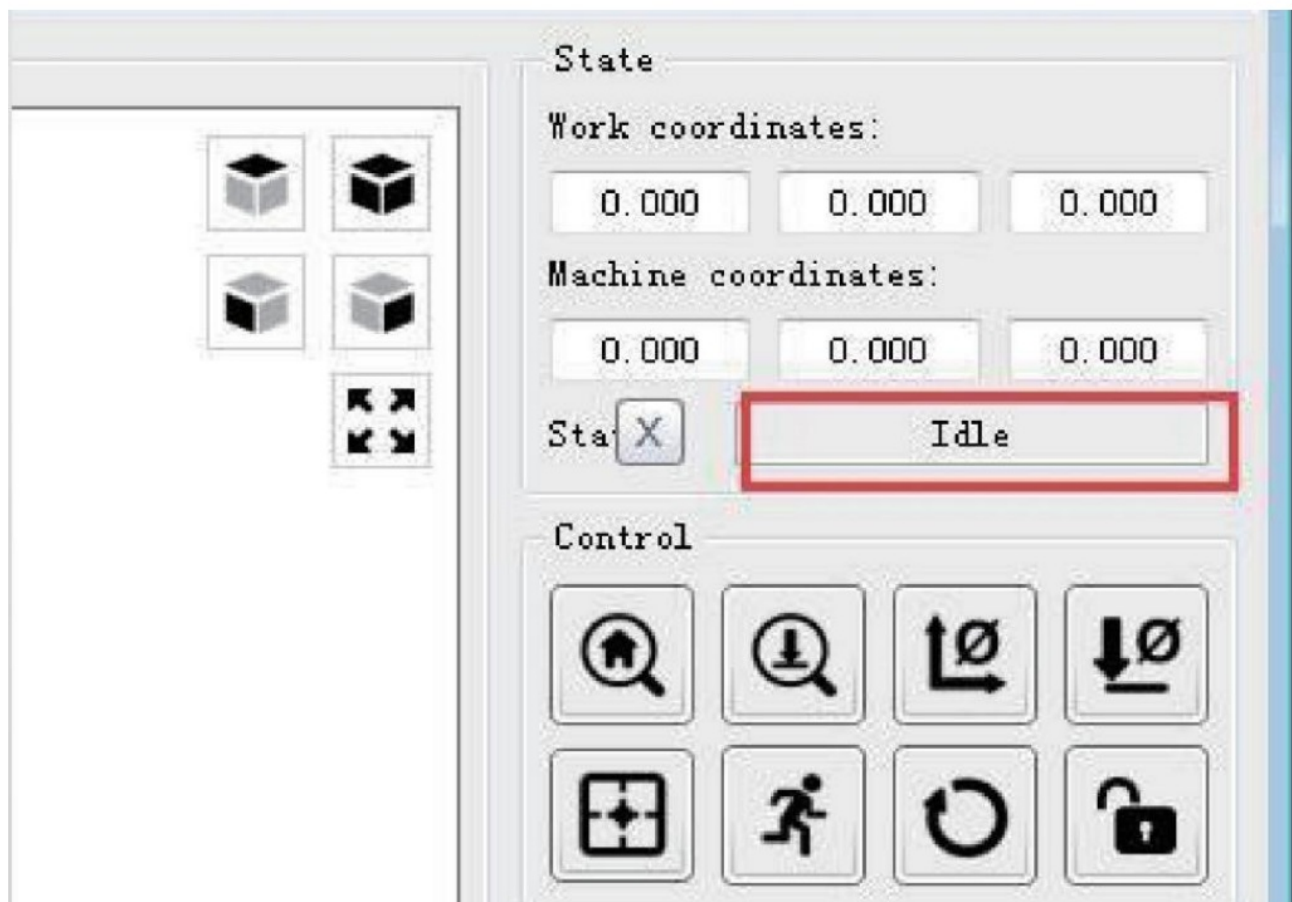


### 4. Select port and baud rate



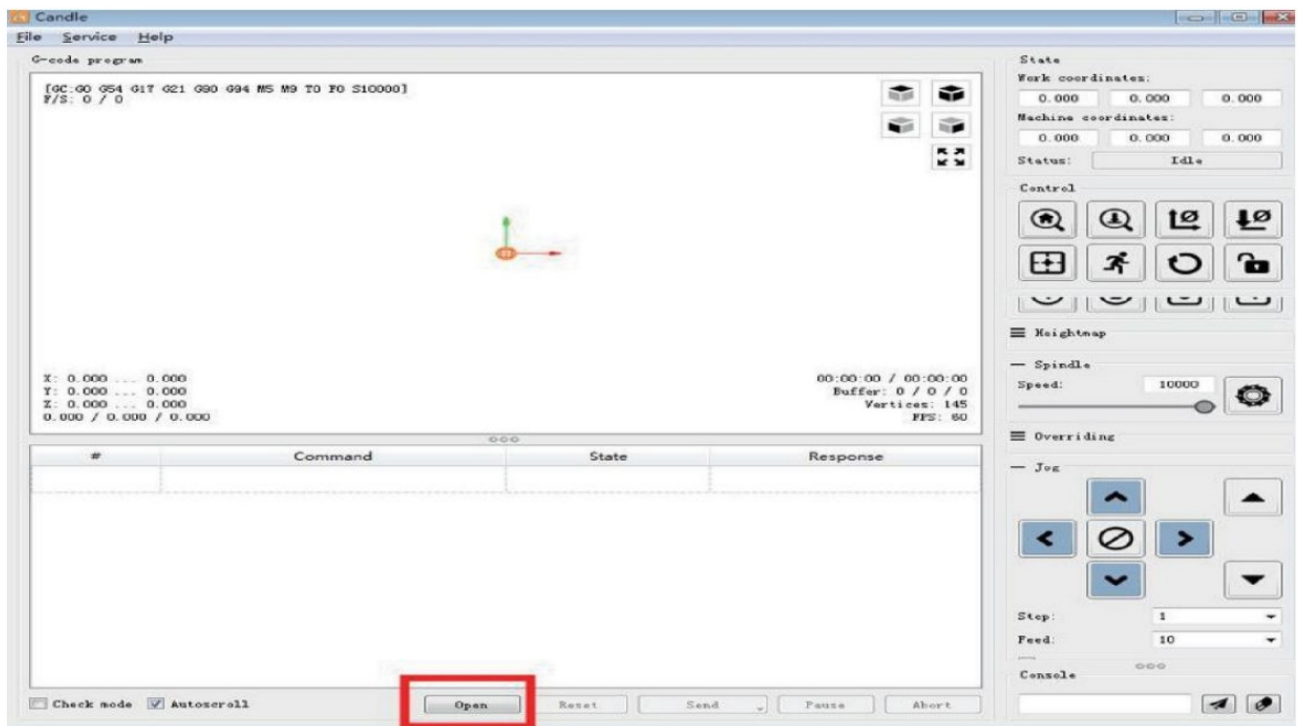


5. Show idle, connection successful

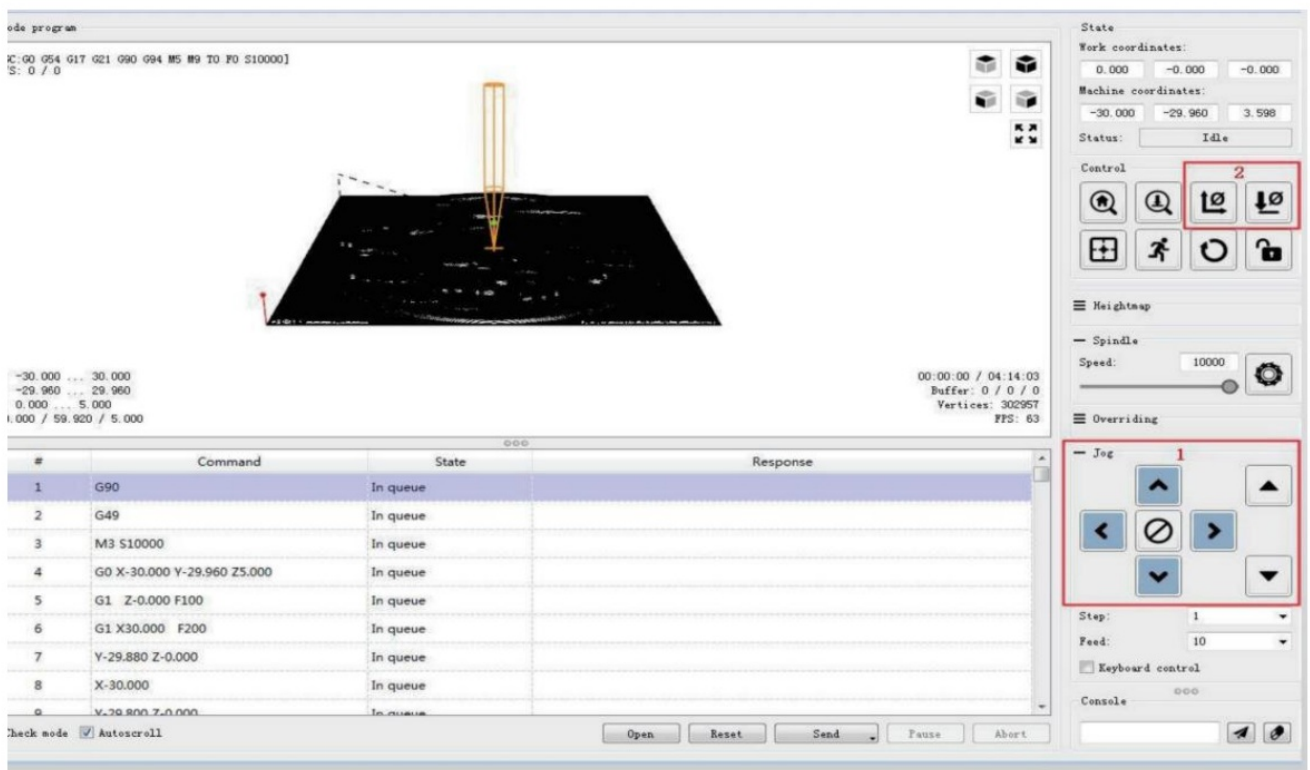


## SOFTWARE OPERATION

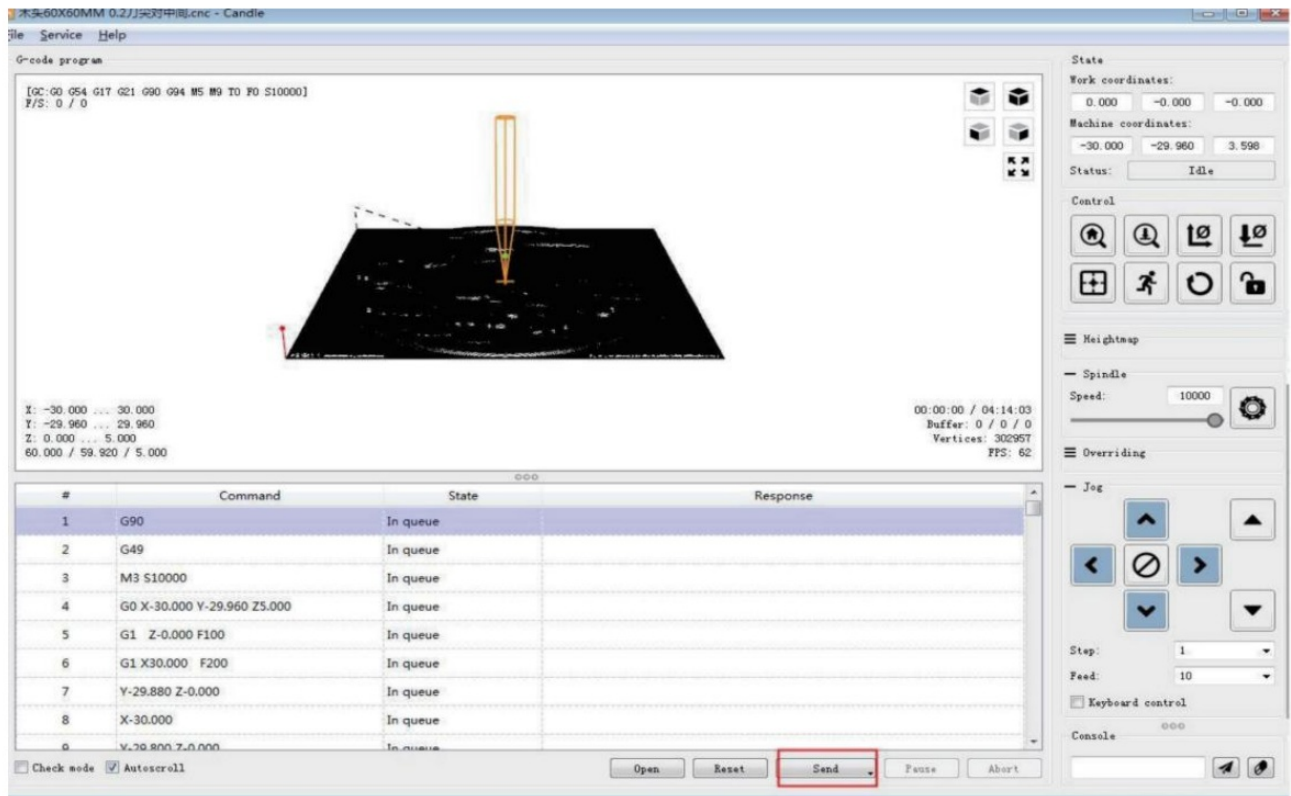
1. Open, select G code and import, Clamp the tool.



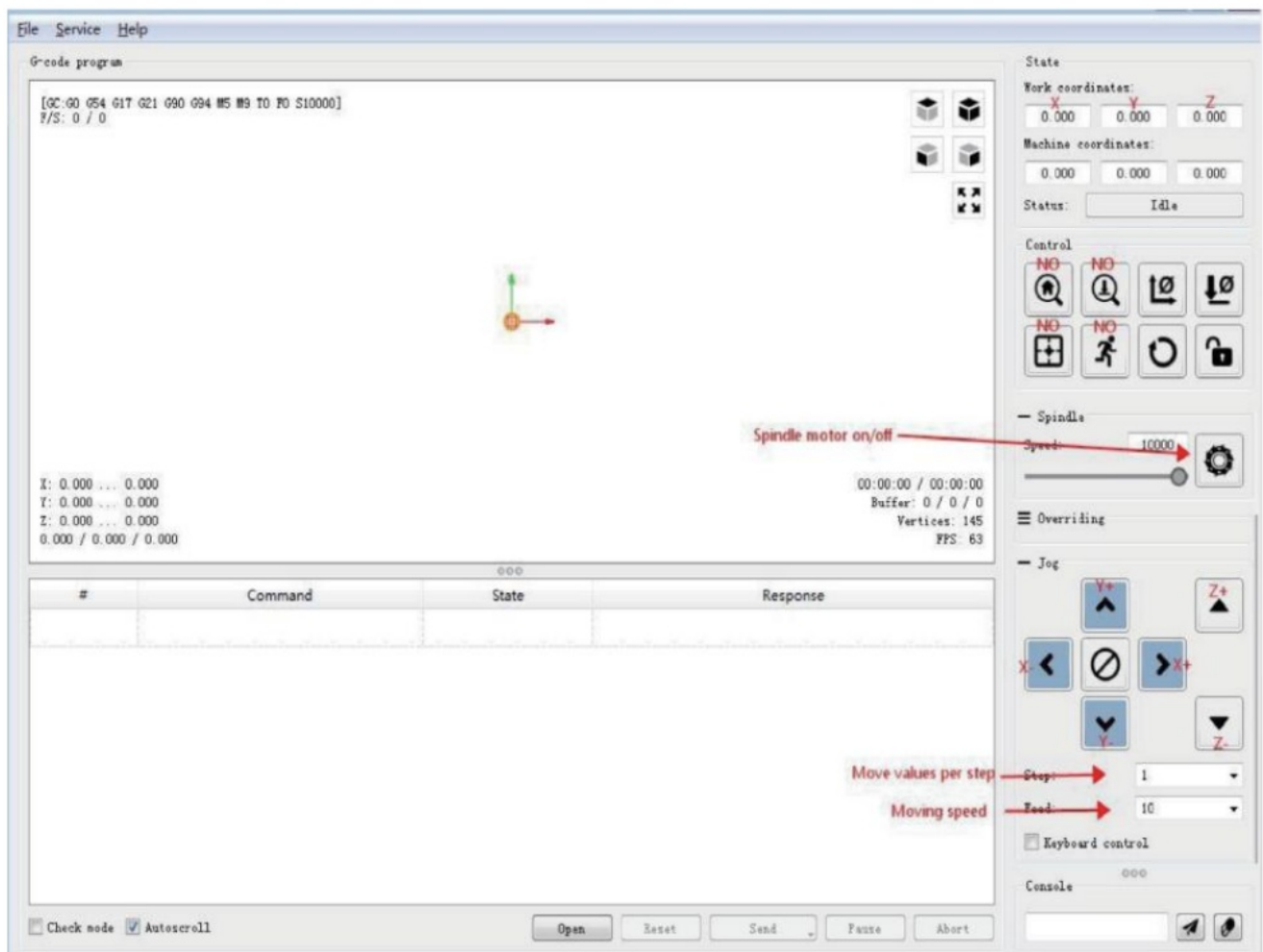
2. Move to the starting point of the code and clear the X, Y, Z origin.



3. Click send to run the code.



4. Move to the starting point of the code and clear the X, Y, Z origin.



**MATTERS NEED ATTENTION**





## Warning

- Please wear protective glasses when using the machine. In case your eyes hurt.
- Before replacing the tool, please disconnect the power supply of the machine to avoid accidents.
- Unplug the socket when not in use, before replacing parts and maintaining the machine.
- Unplug when assembling and disassembling the unit.
- Close supervision is necessary when any appliance is used near children.
- To avoid jamming, do not force the unit to operate with excessive pressure.
- Do not immerse wires or machines in water, as this can cause electric shock.
- This appliance is not intended for use by persons(including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord or plug is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. Do not operate this appliance. Return it to the store of service or repair professional serviceman.

## SAVE THESE INSTRUCTIONS

## TECHNICAL PARAMETER

Model	Input	Power	Scope of work	Max engraving speed
S3020	110V~ 60Hz	60W	300x200x60mm	Main shaft 1200 RPM/Min
S4040	110V~ 60Hz	300W	400x400x75mm	Main shaft 9500 RPM/Min Z-Axis 1200 RPM/Min

## FAULT ANALYSIS

Questions	Analysis of causes	Countermeasure
Engraving machine millin g bottom uneven	The spindle is not perpendicular to th e table	Calibrate and level the Z-axis, or use the e ngraving machine spindle to mill the flat pl ate for leveling.
Uniaxial or triaxial movem ent is abnormal	The corresponding shaft connector is loose. The corresponding motor wire is loos e.	1. Tighten the screws securing the shaft c onnector. 2. Reinsert the motor wire
The offset distance varies when setting the origin	1. The limit line is loose. 2. The limit switch failed.	1. Check whether the limit line is loose. 2. Change the limit switch can be
Engraving misalignment	1. The engraving speed is set too fas t. 2. Static electricity or external interfer ence	1. Slow down the carving speed. 2. Check to see if it is grounded or if there are any other high power appliances ru nning in the circuit


## Customer Support

Technical Support and E-Warranty Certificate

[www.vevor.com/support](http://www.vevor.com/support)

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## Documents / Resources

 <p><b>VEVOR</b> YONGE TOOL &amp; DIE CO., LTD. Technical Support and E-Warranty Certificate www.vevor.com/support</p> <p>CNC ENGRAVING MACHINE MODEL: S3020 S4040</p>	<p><a href="#">VEVOR S3020 CNC Router Machine</a> [pdf] User Manual S3020, S4040, S3020 CNC Router Machine, CNC Router Machine, Router Machine, Machine</p>
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## References

- [User Manual](#)

