

GENMITSU CNC ROUTER 3018-MX3

USER MANUAL



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NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
1		Aluminum	20*40*290mm		2	MX3-1
2		Profile	20*20*360mm		2	MX3-2
3	Mechanical	Aluminum Workbench	180*300mm		1	MX3-3
4	Part	Guide Rail (X Axis)	Ø10*360mm		2	MX3-4
5		Guide Rail (Y Axis)	Ø10*290mm		2	MX3-5
6		Lead Screw (X Axis)	365mm Lead: 4mm		1	MX3-6
7		Lead Screw (Y Axis)	297mm Lead: 4mm		1	MX3-7

NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
8		Phenolic resin plate-R (X Axis)	90*220mm		1	MX3-8
9		Phenolic resin plate-L (X Axis)	90*220mm		1	MX3-9
10	Mechanical Part	Phenolic resin plate-F (Y Axis)	46*360mm	l <mark>e de la companya de la comp</mark>	1	MX3-10
11		Phenolic resin plate-B (Y Axis)	46*360mm		1	MX3-11
12		X-Z Axis Assembly			1	MX3-12

NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
13		42 Stepper motor	NEMA17 34mm	0	2	MX3-13
14		Spindle	775-ER11		1	MX3-14
15		ER11 Collet	ER11-3.175		1	MX3-15
16		Coupling	5mm-8mm		2	MX3-16
17	Mechanical Part	T-Copper Nut		>	2	MX3-17
18		Spring	12*30 mm		2	MX3-18
19		Bearing mount (Y Axis)		.0	4	MX3-19
20		Nut mount (Y Axis)			1	MX3-20
21		Acrylic protection board			2	MX3-21

NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
22		Control Board MC3D3	NEMA17 34mm		1	MX3-22
23		Insulated Board			1	MX3-23
24	Electrical	USB cable	A-B		1	MX3-24
25	Part	24V power supply	24V 5A	K	1	MX3-25
26		Power cable (US)	1.2M		1	MX3-26
27		Power cable (EU)	1.2M		1	MX3-27
28		Limit Switch			4	MX3-28

NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
29			X LIM+ 15cm		1	MX3-29
30			X LIM- 53cm		1	MX3-30
31		Limit Switch	Y LIM+ 30cm		1	MX3-31
32		Connecting	Y LIM- 60cm		1	MX3-32
33	1	Wile	Z LIM+ 34cm		1	MX3-33
34	Mechanical Part		Z LIM- 40cm		1	MX3-34
35		Stepper motor X Axis 17cm		1	MX3-35	
36		Connecting	Y Axis 52cm	Ane	1	MX3-36
37		wire	Z Axis 28cm		1	MX3-37
38	-	Spindle motor wire	Red/black 35cm	Ô	1	MX3-38

NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
39		Work fixture			1	MX3-39
40	Tools/	Probe Tool			1	MX3-40
41	accessories	Engraving Knife	NJ3.2002		10	MX3-41
42		Allen wrench	2.0mm, 2.5mm, 3.0mm, 4.0mm, 5.0mm		5	MX3-42
43		Open end wrench	17*108mm 13*87mm	۲	2	MX3-43
44		Screwdriver			1	MX3-44
45		Cable tie	3X80mm		30	MX3-45

NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
45		Wire holder			10	MX3-46
46		Sealing strip (Y Axis)	270mm		1	MX3-47
47		Sealing strip (X Axis)	340mm		1	MX3-48
48	Tools/ accessories	Nylon braided tube	200mm		1	MX3-49
49		CD		1	1	MX3-50
50		Manual book			1	MX3-51

NO.	TYPE	NAME	SIZE/PARAMETERS	PICTURES	QTY.	NO.
51		M3 bolt	M3*14mm		8	MX3-52
52			M5*10mm		8	MX3-53
53			M5*14mm		4	MX3-54
54		M5 bolt	M5*16mm		12	MX3-55
55			M5*20mm		20	MX3-56
56		M6 bolt	M6*16mm		10	MX3-57
57		M3 screw	M3*20mm	Annonite	2	MX3-58
58	Screw/Nut	WIS SCIEW	M3*6mm	Printer and a second	16	MX3-59
59		Nut 20*M5	20M5	[0]	24	MX3-60
60		Nut 30*M6	30M6	0	10	MX3-61
61		ABS spacer	11mm*M5*5mm		4	MX3-62
62		ABS spacer	7mm*M3.2*10mm		2	MX3-63

Step 1:	Stepp	per motor Assembly Installation					
	NO.	NAME	CODE	QTY.	BEFORE		
Prepare	1	1 42 Stepper Motor MX3-13 2		MX3-13 x2Pcs			
materials	2	Coupling	MX3-16	2	MX3-16 x2Pcs		
Tools	1	Allen wrench (2mm)			AFTER		
Operation Steps	1	Load the hole of φ 5mm part of the coup Axis of motor, must lock the screws on Axis and then tighten it.					
Check	1	When the motor runing, Check the Courruning.	eck the Coupling smo[th				
Remind	1	Keep in the distance 1.4mm between the surface of motor.	ne coupling	and			

Step 2: I	Instal	l Phenolic resin plate-R (X Axis)			
	NO.	NAME	CODE	QTY.	BEFORE
	1	Phenolic resin plate-R (X Axis)	MX3-8	1	MX3-58 x2Pcs1 1
	2	Stepper motor Assembly (from Step1)		1	MX3-59 x2Pcs
	3	Bolt M3*14mm	MX3-52	4	MX3-63
Prepare	4	Limit switch	MX3-28	1	
materials	5	ABS spacer	MX3-63	2	MX3-52 😭 MX3-8
	6	Wire holder	MX3-46	2	x4Pcs MX3-46 x2Pcs
	7	M3 ScrewM3*20mm	MX3-58	2	MX3-13
	8	M3 ScrewM3*6mm	MX3-59	2	
Tools	1	Allen wrench (2.5mm)			AFTER
10015	2	Screwdriver			
Operation Steps	1	It is recommended to install the motor f the limit switch for easy operation.	irst and ther	ı fix	
Check	1	Make sure the right direction of the step limit switch.	oper motor a	ind	
Remind					

Step 3:	Insta	ll Phenolic resin plate-L (X Axis)			
	NO.	NAME	CODE	QTY.	BEFORE
	1	Phenolic resin plate-L (X Axis)	MX3-9	1	MX3-28
Prepare materials	2	Limit switch	MX3-28	1	MX3-9
	3	M3 ScrewM3*6mm	MX3-59	2	
Tools	1	Screwdriver			AFTER
Operation Steps					• • • • •
Check	1	Make sure the right direction of the limi	t switch.		••••
Remind					•••

Step 4:	Instal	l Phenolic resin plate-B/F (Y Axis			
	NO.	NAME	CODE	QTY.	BEFORE
	1	Phenolic resin plate-B (Y Axis)	MX3-11	1	MX3-28 x2Pcs
	2	Phenolic resin plate-F (Y Axis)	MX3-10	1	MX3-11
Prepare materials	3	M3 Screw M3*6mm	MX3-59	8	► MX3-59 x8Pcs
	4	Limit switch	MX3-28	2	
	5	Wire holder	MX3-46	4	MX3-46 x 4Pcs MX3-10
Tools	1	Screwdriver			AFTER
Operation Steps					· · · · ·
Check	1	Make sure the right direction of the limit switch.			
Remind					

Step 5:	Base	Installation					
	NO.	NAME	CODE	QTY.	BEFORE		
	1	Aluminum Profile 20*40	MX3-1	2	MX3-11		
Prepare	2	Phenolic resin plate-F (from Step4)		1	=		
materials	3	Phenolic resin plate-B (from Step4)		1	MX3-10		
	4	M5 Bolt M5*20mm	MX3-56	8			
Tools	1	Allen wrench (4mm)			AFTER		
Operation Steps	1	Use allen wrench to tight the Bolts for 8 space for adjust later.	30%, remain	20%	• As s		
Check							
Remind							

Step 6:	Instal	l (Y Axis) Bearing mount (Y Axis)				
	NO.	NAME	CODE	QTY.	BEFORE	
	1	Guide Rail (Y Axis)	MX3-5	2	MX3-5 x2Pcs	
Prepare	2	Bearing mount (Y Axis)	MX3-19	4		
materials	3	Base (from Step5)		1		
	4	M5 Bolt M5*20mm	MX3-56	4	MX3-56 x4Pcs	
Tools	1	Allen wrench (4mm)			AFTER	
Operation	1	When load the Bearing mounts to the G sure the holes side in right position (ref				
Steps	-					
Check						
Remind						

Step 7:	Instal	I Lead Screw Assembly (Y Axis)			
	NO.	NAME	CODE	QTY.	BEFORE
	1	Lead Screw297mm (Y Axis)	MX3-7	1	MX3-18 MX3-7
Prepare	2	T-Copper Nut	MX3-17	1)),),),))) MX3-17
materials	3	Spring	MX3-18	1	
	4	Nut mount (Y Axis)	MX3-20	1	MX3-20
Tools			·		AFTER
Operation	1	Make the T-Copper rotate to the Lead s attention to the distance between the n Screw for 13mm.			
Steps	2	Load the Spring insert to the Nut,then in the Nut mount, finally rotate the Lead S middle position.		n to	

	NO.	NAME	CODE	QTY.	BEFORE
	1	Stepper motor Assembly (from Step1)		1	▲MX3-13
Prepare	2	M3 Bolt M3*14mm	MX3-52	4	
materials	3	Base (from Step6)		1	
	4	Lead Screw assembly (from Step7)		1	MX3-52 x4Pcs
Tools	1	Allen wrench (GĚ mm, 2mm)			AFTER
Operation	1	Put the Lead Screw assembly into The Base, Lead screw to the hole of Phenolic resin plate of the screw insert into the bearing by force, w middle of the Phenolic resin plate-F.	-B, put anothe	r end	Phenolic resin plate-B
Steps	2	At the same time,make the ste] per motor ass Phenolic resin plate-B,insert the lead screw to assembly. tighten the M3 Bolts of motor,don't in the coupling.	the coupling	of motor	
Check	1	When you finish the steps here, you should to check the Horizontal and vertical, if you have not any professional tools, you can stand the base, observe the Bearing mount fall dow) smooth, if not that you have to check the vertical of the Guide Rail.			
Remind	1	Øinish &@&\ Át) åÁãcÁhe base, you can tigthen (remmember cœeÁve remain 20% space befo			Phenolic resin plate-F

Step 9:	Alum	inum Nuts Installation			
	NO.	NAME	CODE	QTY.	BEFORE
Prepare	1	Nut 30*M6	MX3-61	10	MX3-61 x10Pcs
materials	2	M6 Bolt M6*16mm	MX3-57	10	MX3-57
Tools					AFTER
Operation Steps	1	Install the Nut into bolts by hand.			
Check					
Remind	1	Don't need to tighten the Nut, we need insert the workbench in next step.	the space to	0	

Step 10	Alur	ninum Workbench Installation			
	NO.	NAME	CODE	QTY.	BEFORE
Prepare	1	Aluminum Workbench	MX3-3	1	MX3-3
materials	2	Base (from Step 9)		1	
Tools	1	Allen wrench (Í mm)			AFTER
Operation Steps	1	Turn over the Base in the side of the Al workbench, move the base and make s into the three channels of the workbenc	ure the nuts	sinsert	
Steps	2	When the workbench in the middle of the Allen wrench tighten the Bolts.	ne base, use		
Check					
Remind					• • • • •

Step 11	: Prep	oare Phenolic resin plate-R/L						
	NO.	NAME	CODE	QTY.	BEFORE			
	1	(X Axis) Phenolic resin plate-R (from Step2)		1				
Prepare	2	(X Axis) Phenolic resin plate-L (from Step3)		1	MX3-60 MX3-55			
materials	3	Nut 20*M5	MX3-60	12	x12Pcs x12Pcs			
	4	M5 Bolt M5*16mm	MX3-55	12				
Tools					AFTER			
Operation Steps								
Check								
Remind	1	Don't need to tighten the Nut, we need next step.	the space to	o the				

Step 12	: Inst	all Phenolic resin plate-R/L					
	NO.	NAME	CODE	QTY.	BEFORE		
	1	Phenolic resin plate-R (from Step 11)		1	5		
Prepare materials	2	Phenolic resin plate-L (from Step 11)		1			
	3	Base (from Step 11)		1			
Tools	1	Allen wrench (I mm)			AFTER		
Operation Steps	1	Fix the Phenolic resin plates on the base, Use the Allen wrench tighten the Bolts 80% in advance, remain 20% for adjust later.			aka -		
Check							
Remind							

Step 13	: Alur	ninum Profile (X Axis) Installatior					
	NO.	NAME	CODE	QTY.	BEFORE		
	1	Aluminum Profile 20*20	MX3-2	2	MX3-56 x 4Pcs		
Prepare materials	2	M5 Bolt M5*20mm	MX3-56	4	MX3-2 x2Pcs		
	3	Base(from Step 12)		1			
Tools	1	Allen wrench (I mm)			AFTER		
Operation Steps	1	Fix the Aluminum Profile on the Phenol Use the Allen wrench tighten the Bolts remain 20% for adjust later.			02		
Check							
Remind							

	NO.	NAME	CODE	QTY.	BEFORE
	1	X-Z Axis Assembly	MX3-12	1	MX3-56 x4Pcs
Prepare materials	2	M5 Bolt M5*20mm	MX3-56	4	MX3-12 MX3-4 x2Pcs
	3	Guide Rail (X Axis) 360mm	MX3-4	2	
Tools	1	Allen wrench (I mm)			AFTER
Operation Steps	1	Use the Allen wrench tighten the Bolts remain 20% space for adjust later.	80% in adva	ance,	
Check					
Remind					

Step 15	: Prep	oare Lead Screw Assembly (X Axi				
	NO.	NAME	CODE	QTY.	BEFORE	
	1	Lead Screw (X Axis) 365mm	MX3-6	1	Phenolic resin plate-L	
Prepare materials	2	T-Copper Nut	MX3-17	1		
	3	Spring	MX3-18	1	MX3-6 MX3-18	
Tools	1				AFTER	
Operation Steps	1	First, insert the Lead Screw into the Ph plate-L, then make the T-Copper rotate Screw, pay attention to the distance be and Lead Screw for 33mm.	to the Lead			
	2	Load the Spring insert the Nut.				
Check						
Remind						

Step 16:	Inst	all Lead Screw Assembly (X Axis)			
	NO.	NAME	CODE	QTY.	BEFORE
Prepare materials	1	Lead Screw Assembly (from Step15)		1	Assembly
Tools	1	Allen wrench (2mm)			AFTER
	1	Insert the Lead Screw assembly to the then rotate the Lead Screw into the nut X-Z Axis assembly.			
Operation Steps	2	Keep to rotate the Lead Screw, until ins coupling, tighten the small screws in the		lle	
	3	Make sure the distance between the Pt plate-R and Phenolic resin plate-B for 3		1	
Check					31.5mm
Remind					

	NO.	NAME	CODE	QTY.	BEFORE
Prepare materials	1	Spindle	MX3-14	1	MX3-14
Tools	1	Allen wrench (3mm)			AFTER
	1	Loosen the M4 bolt in the X-Z Axis asso place the spindle to the ring of the X-Z			
Operation Steps	2	When the gray cover of the spindle con ring, tighten the M4 Bolt. Be careful not force to avoid plastic damage.			
Check	1	Check all the parts carefully, find where need to adjust, then you can tigthen all the bolts (remmember we remain 20% space before)			
Remind					

Step 18	: Insta	all Control board Assembly					
	NO.	NAME	CODE	QTY.	BEFORE		
	1	Control board MC3D3	MX3-22	1	MX3-22 MX3-60 x MX3-62		
	2	Insulated Board	MX3-23	1			
Prepare materials	3 M5 Bolt M5*14mm MX3-54 4						
	4	Nut20*M5	MX3-60	4			
	5	ABS spacer	MX3-62	4	MX3-23 MX3-54 x4Pcs		
Tools	1	Allen wrench (4mm)			AFTER		
Operation Steps	1	Fix the distance between the Control board and Phenolic resin plate-R for 30mm _o			30mm		
Check							
Remind							

Step 20	: Wiri	ng Connecting wires (X Axis Lim	it Switch)		
	NO.	NAME	CODE	QTY.	XÔY ÁF
	1	Limit Switch Connecting wire X LIM + 15cm	MX3-29	1	
Prepare materials	2	Limit Switch Connecting wire X LIM - 53cm	MX3-30	1	MX3-29 MX3-30
	3	Sealing strip 340mm (X Axis) MX3-48 1			
Tools					XÔDY ÁG
Operation	1	Put Limit switch connecting wire insert t and Limit switch, the switch near by the			
Steps	2	Use the Sealing strip to cover the wires Aluminum Profile.	inside the		MX3-48
Check	1	Pay attention the mark on the Control b The correct sequence and direction of t			use here
Remind					

Step 21	: Wiri	ng Connecting wires (Y Axis Limi	t Switch)		
	NO.	NAME	CODE	QTY.	XODY Ár
	1	Limit Switch Connecting wire Y LIM + 30cm	MX3-31	1	
Prepare materials	2 MX3-32 1				
	3	Sealing strip 270mm (Y Axis)	MX3-47	1	MX3-31 MX3-32 MX3-31 MX3-47 use here
Tools					XODY ÁG
Operation	1	Put Limit switch connecting wire insert t and Limit switch, the switch near by the			framework g = 0)
Steps	2	Use the Sealing strip to cover the wires the Aluminum Profile.	MX3-32 ins	ide	
Check	1	Pay attention the mark on the Control board, make sure the correct sequence and direction of the connectors.			
Remind					

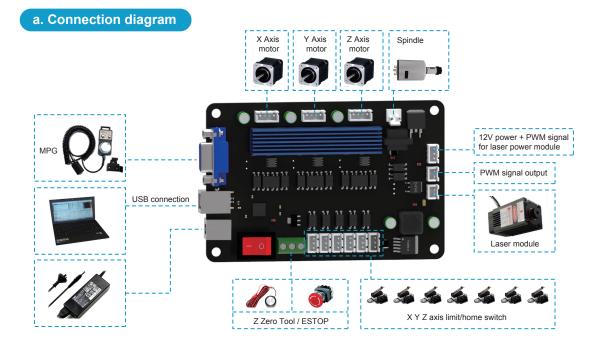
Step 22	: Wiri	ng Connecting wires (Z Axis Limi	t Switch)				
	NO.	NAME	CODE	QTY.	XÔY ÁF		
Prepare	1	Limit Switch Connecting wire Z LIM + 34cm	MX3-33	1	MX3-33		
materials	2	Limit Switch Connecting wire Z LIM - 40cm	MX3-34	1	UA3-34		
Tools			·		XÔY ÁG		
Operation Steps	1	Put Limit switch connecting wire insert the Control board and Limit switch, the switch near by the motor is the LIM-					
Check	1	Pay attention the mark on the Control b the correct sequence and direction of th					
Remind							

Step 23	Wiri	ng Connecting wires (Stepper mo			
	NO.	NAME	CODE	QTY.	X@Y ÁF
	1	(X Axis) Stepper motor connecting wire 17cm	MX3-35	1	MX3-37
Prepare materials	2	(Y Axis) Stepper motor connecting wire 52cm	MX3-36	1	MX3-35
	3	(Z Axis) Stepper motor connecting wire 28cm	MX3-37	1	- MX3-36
Tools					XÔY ÁG
Operation Steps	1	Use the Stepper motor connecting wire connect the control board and motors.			
Check	1	Pay attention the mark on the Control b the correct sequence and direction of the			
Remind					

Step 24	Wiri	ng Spindle motor wires			
	NO.	NAME	CODE	QTY.	XOÙY ÁF
Prepare materials	1	Spindle motor wires 35cm	MX3-38	1	MX3-38
Tools					XOÒY ÁG
Operation Steps	1	Use the spindle motor wire insert the Control board, NOTE: Red wire to M +, Black wire to M -			
Check	1	Pay attention the mark on the Control b the correct sequence and direction of th			
Remind					

	NO.	NAME	CODE	QTY.	XÔY ÁF	
Prepare materials	1	Cable tie (Black)	MX3-45	1	MX3-49 use here	
	2	Nylon braided tube	MX3-49	1	MX3-45 use here	
Tools					VIEW 2	
Operation Steps	1	Use cable tie to fix all the wires which a holder.				
oteps	2	Use the Nylon braided tube to bundle t	he multi-wire	es.		
Check						
Remind						

Part 3: Control Card Introduction



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Part 3: Control Card Introduction

b. 3018 MX3 control card features

- Applicable to mach3mill CNC software, support Windows XP, Windows 7 32 / 64bit, Windows8, Windows10 operating system;
- 2. USB interface communication, support 3-axis engraving, support laser cutting;
- 3. Support automatic tool setting function;
- 4. External emergency stop switch, limit switch (home switch);
- 5. Onboard motor driver, maximum 32 micro steps, the motor runs smoothly;
- 6. The maximum output pulse frequency is 100KHz;
- 7. All control signals are isolated by optocoupler and have strong anti-interference ability;
- 8. Support external MPG for manual control.

Part 3: Control Card Introduction

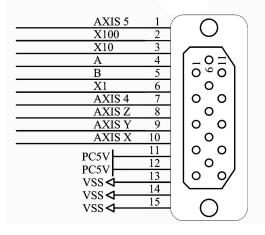
c. PCB mark Description

Mark	Description	Mark	Description
MPG	MPG interface	YLIM-	Y limit switch -
USB	USB interface	ZLIM+	Z limit switch +
24VDC	24V power interface	ZLIM-	Z limit switch -
ON	Power ON	LAS	Laser module interface
OFF	Power OFF	PWM	PWM signal output interface
СОМ	Input signal common	12V	12V power output interface
ESTOP	Emergency stop switch interface	GND	V-(0V)
PORBE	Z Zero Tool interface	Spindle	Spindle motor interface
XLIM+	X limit switch +	х	X Axis motor interface
XLIM-	X limit switch -	Y	Y Axis motor interface
YLIM+	Y limit switch +	Z	Z Axis motor interface

Part 3: Control Card Introduction

d. MPG Interface pin definition

Support for external connect electronic hand wheel, use HDR15 interface to connect electronic hand wheel, Interface pin definition as shown below, You can weld the hand wheel connector according to the definition, or you can contact us to buy the hand wheel that has been welded.:



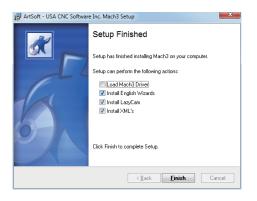
Note: The hand wheel does not directly control the motor operation, but controls the motor through software. When the electronic hand wheel is rotated, the software coordinates will change.

1. Open the CD, find mach3 software, run the installation file:

Name	Date modified	Туре	Size
Mach3VersionR3.041	1/10/2014 1:23 PM	Application	25,733 KB

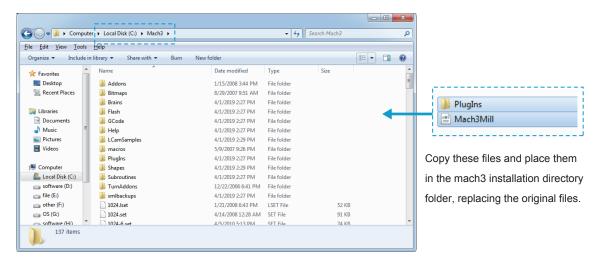
2. Follow the prompts to install, until the last step.

Note: For 64-bit computer, it is best not to select "LoadMach3 Driver" this one, because it will cause the system to prompt installation errors.



3. Mach3 configuration and plug-in import:

Copy the file "Mach3Mill.xml" > folder "Plugins" from CD, replace those files in the mach3 installation directory, as shown in the following figure:



4. About Mach3 license:

The mach3 software we provide is a trial version. It can only run up to 500 lines of G code, and does not affect the testing of machine functions. The license can be obtained through the mach3 official website:

https://www.machsupport.com/

5. Start the Mach3 software:

Click on the desktop icon "Mach3Mill", a dialogue of "Motion Control Hardware PlugIn sensed!" will be show.

Please select the "BL-UsbMach-V3.2", you can also select "Don't ask me this again".

Motion Control Hardware PlugIn sensed!		
Your system is showing more than one control device Please pick the one you would like this profile to use.		
C Normal Printer port Operation.		
C No Device		
C No Device		
□ Dont ask me this again	ОК	

6. About the mach3 "Reset" button:

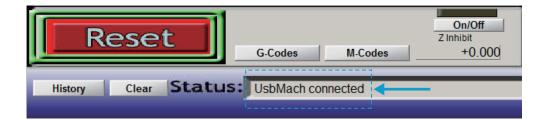
If "Reset" is flashing, the software will not work. If it cannot be reset, please check if the motion control is connected, Check software input settings.

	File: No File Load	ed.		
	Cycle Start <alt-r></alt-r>	Edit G-Code	Rewind Ctrl-W	
		Recent File	Single BLK Alt-N	
		Close G-Code	Reverse Run	
		Load G-Code		
	<spc></spc>		Block Delete	
	Stop <alt-s></alt-s>	Set Next Line	M1 Optional Stop	
		Line: 0	Flood Ctrl-F	
		Run From Here	Dwell CV Mode	
Click "Reset" to reset	Image: Constraint of temperature On/Off Zinhibit G.Codes M.Codes +0.000			
	History Clear	Status: Too Fast for Pulle	eyUsing Max.	

Step 1

Turn on the control card's power switch button, LED (24V.PWR) is on.

Reset the software and display "Usbmach connected". The control card is successfully connected, as shown below:



Step 2

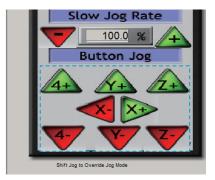
Click "Load G-Code" to import the engraving code, for example, import the NC file in the CD: sainsmart.nc, as shown below:

	File: No File Loaded.		
Load G code	Edit G.Code Rewind Ctrl.W Kalt-R> Recent File Close G.Code Reverse Run Load G.Code Block Delete Stop Set Next Line Line: O Flood Ctrl.F Flood Ctrl.F Run From Here Dwell		
	On/Off G-Codes M-Codes History Clear Status: UsbMach connected		

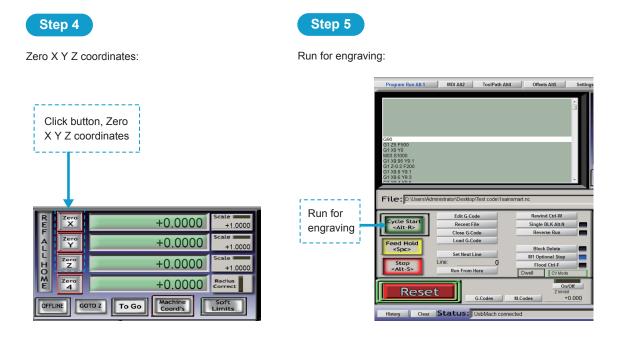
Step 3

Use the manual function to move the X Y Z axis to find the machining start point of the workpiece:

Press the "**Tab**" button on the keyboard to bring up the MPG interface. Click on X Y axis button to manually control the motor work, to find the machining start point of the workpiece, as shown below:



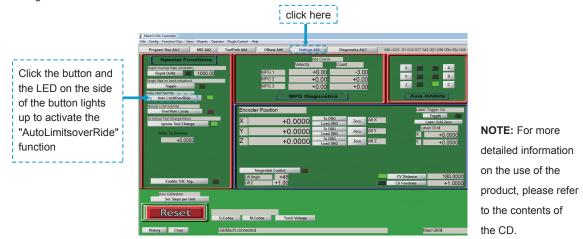
NOTE: The Z-axis can use the automatic tool zero function. For detailed operation, please refer to the automatic tool setting tutorial on the CD.



Part 6: How to release the limit switch trigger

How to release the limit switch trigger?

After the limit trigger, the software can't do anything. At this time, the "Auto LimitsoverRide " function can be used to restore the manual operation function, Manual operation away from the limit switch, release limit trigger as shown in the figure:





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