

EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at <u>www.hestore.hu</u>.

3018Pro CNC Engraving Machine



Precautions

Please refer to the attached USB flash drive to assemble and operate. If the USB flash drive not work, please contact us and leave the email address. We will send it to you .

Precautions:

1) All parts in this description just for illustrative purposes . If there is any difference, please refer to the actual part shape.

2)Please pay attention to the order in the installation steps to avoid repeated disassemble or assemble .If the laser need to work long time, please be sure to disable the sleep function of the computer And please don't make laser continuously emitting light in the out of control to avoid burning the engraved items or the desktop.

3)Please don't use item without anybody here.

4)Be sure to wear protective glasses before operating the laser.



http://dwz.date/Ar3

Follow our Channel to get help about assemble, operation, software and technical staff suggestion.



How To Assemble CNC 3018 Pro? #Assembling Video 296次现着+2019年11月6日

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User Guide

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Safety Guide



Caution: Avoid eye or skin exposure to direct radiation



Away from children



Always wear protective glasses when use the machine



Prohibited from use in flammable objects or gases .



In case of emergency, cut off the power immediately



Shutdown steps : When you are not using the machine, first cut off the power,then turn off the software, at last dial out the USB cable

		Packing L	ist		
001	Aluminum profile	15180*300mm	1	Рс	
002	Aluminum profile	2020V*380mm	2	Root	
003	Aluminum profile	2040V*300mm	2	Root	
004	Z-Axis	Z-axis	1	Set	
005	Bakelite	A+B+C+D	1	Set	
006	Rod	Φ10*380mm	2	Root	
007	Rod	Φ10*300mm	2	Root	
008	Lead screw	T8*390mm	1	Root	/
009	Lead screw	T8*305mm	1	Root	/
010	Stepper Motor	42HS34-13D	2	Рс	1
011	3.0 Controller	GRBL 1.1	1	Рс	
012	USB Cable	1500mm	1	Root	Q
013	775 Motor Cable	500mm	1	Root	Ø
014	Stepper Motor Cable	600mm	3	Root	R
015	Hexagon Socket Screw	M3*14	4	Рс	
016	Hexagon Socket Screw	M3*18	4	Рс	
017	Hexagon Socket Screw	M5*10	4	Рс	-
018	Hexagon Socket Screw	M5*16	12	Рс	<u> </u>
019	Hexagon Socket Screw	M5*20	20	Рс	
020	Hexagon Socket Screw	M6*12	10	Рс	

021	S	lide nut	M5	1	6	Рс	A
022	S	lide nut	M6	1	0	Рс	12
023	Co	pper nut	Pitch2 Lead4	,	2	Pair	1.0
024	N	Jut seat	Τ8		1	Рс	T
025	Linea	ar Bearings	LM10UU 10*19*29	2	4	Рс	-
026	С	oupling	5*8	,	2	Рс	02
027	Socke	et wrenches	2/2.5/3/4/5		1	Set	
028	Pow	ver supply	DC24V5A		1	Pc	
029	ABS isc	olation column	11*5.2*5	2	4	Рс	
030	E	Drill Bit	3.175*30°0.1		1	Box	Source and the second sec
031		ER11	C16-ER11-35L 5mm		1	Set	0
032		Plates	/		1	Set	法法
033	USB	flash drive	/		1	Рс	
034	F	Package	/		1	Set	
3018p	oro Max						
035	Hexagor	n Socket Screw	M5*8	1	8	Рс	
036		T nut	M5		8	Рс	0
037	Acrylic	e Dust shield	3mm	,	2	Рс	
Optio	onal						
50	00mw	1600mw	2500mw			3500mw	5500mw
15	5000w		1 Inch Offlin	e	1.8	Inch Offline	

Bakelite



3018Pro Machine Assemble















Only 3018pro max need to do next step



Laser on Machine



How to adjust focus please refer to FAQ





500mw/2500mw/3500mw/5500mw is adjustable

15000mw laser is fixed-focus laser can not be adjust focus

How to connect



Package



Candle software

User manual

1.Overview

Candle is an open source software suitable for CNC machine tool processing. It supports G code file processing and visual display.

2.Install the driver

For the first time use, please connect the device to the computer via USB cable, and click the CH340-Driver.exe file in the driver folder to install the driver. Under normal circumstances, the Win10 system will automatically identify and install the driver. For Win7 and Win8 systems, please install it manually.

Driver install(X64)		×
) Choose INF file:	CH341SER.INF	~
Install	WCH.CN	
Remove	[]	
Help		

3. Set the port

After installing the driver, open the device manager of the computer and click on the port option to see the content inside the red box on the screen shown in the figure below (the port information is in brackets).

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USB-SERIAL CH340 (COM4)		
● 通信端□ (COM1)		
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	100	

Remember the port information queried above, switch to the Candle software interface and click the "Settings" option in the upper left corner. Selecting the setting will bring up the interface. Under "Connection", select the port name you queried, select the baud rate 115200, and then click below The icon "Finish" ends the setting



4. Connection is complete

After setting the port and baud rate, click Finish. The status bar at the top right of the Candle interface will show Idle, and at the same time, the console at the bottom right will display the information shown below, indicating that the connection has been successfully established.



5. Processing documents

The "File" option at the top, click "New" to create a G code in the command bar at the bottom of the interface, and click "Open" to select a G code file that has been made, and then you can import the file. After importing, the middle of the interface will display a visual graph composed of tool paths (the position of the pen-shaped graph in the graph is the current tool position). In the visualization window, hold down the left mouse button to move to rotate the graph, and hold down the right button to move. Graphics, scrolling the middle wheel can zoom in and out of the graphics. At the same time, the content of the G code will be displayed in the lower command bar. During processing, the machine will run one by one according to the G code commands.



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6. Set the working coordinate origin

Before running the G code program, you need to find the position of the engraving figure relative to the overall engraving plate. There is a three-axis coordinate system in the visual graphics. The origin of the three-axis coordinate system is the tool setting point of the actual processing graphic. You can move the tool to determine the position of the engraving graphic relative to the overall engraving plate based on the position of this origin. The engraving figure in the figure below is taken as an example. After the selected tool position is started, the X, Y, and Z axes are reset to zero (the the tool approaches the distance of one sheet of paper for engraving, and then return the X, Y, and Z axes to zero (please use a flat-bottom sharp knife when engraving, and use a cylindrical milling cutter when machining planes, slots, and holes) The effect is that the sculpted figure will be carved with the blade tip as the origin.









7.Start Carving

After finding the engraving position, click the send button below and the device will automatically start engraving. The status bar at the top right shows running. The visualization window shows that the tool is moving along the tool path. You can choose the pause and stop buttons below when engraving. (After pausing, click again to continue the previous engraving. After termination, click Send to start processing from the beginning).



8. Finished processing

After the processing is completed, the visualization window prompts that the engraving is completed and the time required for engraving.



LaserGRBL

LaserGRBL is an excellent and practical open source control software in the field of laser engraving. Compared with similar software, it has a simple interface, simple operation, and supports multiple languages. There are a lot of learning resources used on the Internet, which is convenient for beginners to understand and master the software. Mastering a laser engraving software is the basic condition for using a laser engraving machine. It is recommended that beginners first learn the operation method of the software online before using it to prevent damage to the laser engraving machine and surrounding items by improper operation

Download from Laser GRBL official website or ask our customer service to get The archive contains two files:

1.CH340 USB driver Unzip the package and find the file

DRVSETUP64.exe

Double-click to install, the user needs to install this driver when running the software for the first time. 2.Laser GRBL software Locate the file in the archive (install.exe) and double-click it to install it.

Operation notice

Basic operation

1.Install the machine according to the installation instructions, connect the line.

2.Download Laser GRBL software and install.

3. Power on the motherboard with the power adapter.

4. After the power is turned on, it can be operated online through the computer or offline through the touch screen on the machine (the online operation and offline operation are described in detail later).

5.Place the material to be engraved in the working area of the engraving machine.

6. Turn on the low light, focus by rotating the laser focus knob until a very bright spot appears, then the focus is complete.

7. Move to the position you want to engrave and click "Positioning". This point is the machine zero.

8.Select the file to be engraved, select the engraving mode, and then click "Border". At this time, the weak light is turned on, and you can walk along the largest frame of the engraved picture or text, so that you can know that the engraved file is probably engraved in where. If the location is not suitable, you can relocation it until you are sure. 9. Once the positioning is complete, click on "Engraving"

10.During the engraving process, the point "pause", the machine stops moving, the laser turns off; the point "stops", the laser turns off, the machine returns to zero.

11.After the engraving is completed, the laser is turned off and the machine returns to zero.

Online operation

Online operation is the operation of controlling the device through software after the device is connected to the computer.

1.Install the software an USB driver

2.Connect the device to the computer with a USB cable

3.Open the Laser GRBL software, select the COM port (except COM1, you can plug and unplug the USB cable to see which one is) and the baud rate (generally set to 115200), then click the connection, the color of the button will become darker after the connection is successful (if Click the connect button and the color does not become darker. You can unplug the USB cable and plug it in again.)



4. After the connection is successful, click "File" on the menu bar of the interface to enter the selection file interface, select "Open File", import the picture to be carved, etc.



5.Select the file to be engraved, click "Open", the "Input Raster Image" dialog box will pop up. Here is the setting engraving mode and some other engraving parameters. Click "Next" after setting.



6.Click "Next" to pop up the "Target Image" dialog box, where you can set the engraving speed, minimum power and maximum power and the length and width of the image to be engraved and offset. Click "Create" after setting.7.After clicking "Create", enter the preparation for engraving.



Move to the position you want to engrave, click the "Position" button (the position where the laser head is located at the lower left corner of the engraved pattern), set the number of times to be engraved, and click the "Start Engraving" button to start the engraving. After the engraving is completed, the machine returns to the zero position.



Engraving material list

The data listed in this list are all reference values. Because each material has different characteristics and differences, there is a certain error. In general, the use of relatively high power (1600MW is relatively high power compared to 500MW), the engraving depth is relatively deep, but due to the focal length, it will be less detailed than the low power. Small power engraving is shallow but very fine. When engraving, you can adjust the power, engraving speed, and moving speed for better results. In addition, when the speed is slow, it can be cut, but if the edge is not fine and the degree of burning is obvious, you can try to adjust the speed and repeat the engraving several times to achieve better results. If it is cutting, please adjust the speed as appropriate to achieve the cutting effect. If it is engraving, please adjust the parameters such as power and speed according to the depth of engraving.

Problem summary

- ► Q : What materials can the laser engraving machine engrave or cut? Please refer to the "Carving Material List"
- ▶ Q : What is the difference in power size?

The higher the power, the greater the luminous energy of the laser head, the higher the temperature of the material hit, the harder the material of the material that can be engraved, and even the full cutting can achieve the cutting effect. However, the pattern carved out by high power is not small enough for fine power. If it is cutting, it is recommended to choose high power; if it is required to engrave shallower, more delicate, it is recommended to choose low power.

- Q: How long does the laser head last?
 In theory it is 8,000 hours. (The life of the laser varies depending on the environment and usage of each user. This issue is for reference only)
- Q: How high can the engraving precision be achieved? The power is different and the precision of the engraving is different. In general, the larger the power, the larger the laser spot (the spot on the material), so it cannot be engraved fine. In general, low power (300MW 500MW) engraving accuracy can be achieved.
- Q : Which formats or formats are supported? Support all formats of images, support GCODE, NC files
- ▶ Q: Is the laser head focal length adjustable?

Adjustable. Click the "Weak Light On" button on the touch screen interface, then rotate the knob under the laser head to make the spot on the material as small as possible. The smaller the spot, the greater the energy.

▶ Q : Whether to support the grayscale engraving function

Supports the grayscale engraving function, which can engrave pictures and photos of different shades of color by controlling the intensity of the laser according to the color depth of the image.

Q : Is there a positioning function? How to locate?

When using online engraving, you can turn on the low light, move the laser head to the place to be engraved, click the "Position" button to set the point to zero.

When using offline engraving, turn on the low light, move the laser head to the place to be engraved, click the "Position" button to set the point to zero, select the file to be engraved, and confirm the range of the photo to be engraved by walking the border. For accurate positioning.

▶ Q: What is the reason why the engraved picture is very light?

Quality: ** line / mm, generally set to 10 lines / mm, the larger the value, the darker the color, the set according to your needs

Engraving speed: the moving speed when the laser is turned on, the faster the speed is engraved the shallower. Minimum maximum power: The general minimum power is set to 0 and the maximum power is set to 1000. The greater the maximum power, the deeper the engraved color.

▶ Q: Why does the fan of the laser module not turn?

Please confirm that the laser head is working properly. If the laser head does not work, there may be a bad contact of the power supply line of the laser head; if the laser head works normally, the fan may be broken.

▶ Q: What is the reason for the software connection?

Please confirm whether the USB interface is in contact with normal. Please confirm whether the COM port is selected correctly (do not select COM1); please confirm whether the baud rate is selected correctly (select 115200). If you still can't solve it, please contact our customer service or technical staff.

▶ Q: What should I do to engrave something taller?

Since the model is a desktop model, the laser head and the object to be carved must reach a certain distance to engrave. If it is necessary to engrave a higher object, it is necessary to raise the height of the whole machine and the object to be carved. For example, take the appropriate plane to raise the 4 feet of the machine, but the adjusted engraving effect cannot be guaranteed. (After adjustment, remember to refocus)

- Q : Can the laser head be replaced by itself?
 The laser head is self-replaceable. The L-type M3 Allen key can be used to unscrew the locking laser head, remove the laser head, replace the laser head, and retighten the screws.
- ► Q: Can you emboss wood?

No. Laser engraving can only be planar engraving. Relief needs high and low float

▶ Q: How long does it take to engrave a picture?

The length of time required for engraving depends mainly on the speed of the engraving, the speed of the idling, and the size of the picture. Users can view the total time spent on the software or on the progress bar on the touch screen.

▶ Q : Do I need to brush the motherboard and touch screen?

The motherboard and touch screen factory are already update firmware, no need to re-flash the firmware. If you need to change the firmware, you can use the Grbl \rightarrow Grbl configuration \rightarrow Value on the software,double-click the option you want to modify to modify it, and then click "Write" to write it.

► Q : Where is the motor drive plugged in?

The small drive is 4988 green board (rated current is 1A, the maximum current is 2A), the X-axis motor drive is inserted in the X-axis motor in-line drive interface below the X-axis motor line interface; the Y-axis motor drive is connected to the Y-axis The Y-axis motor is directly inserted into the drive interface below the motor line interface, and the Y1 and Y2 axes share a Y-axis drive. (Note: the direction of the drive is not reversed, and the insertion will be burned)

There are two ways to distinguish the direction of the drive: 1. Look at the color of the drive and drive interface terminals.(black and green), the corresponding color can be inserted. 2. Check the words on the back of the motherboard driver interface (such as EN DIR GND, etc.), and insert the words on the corresponding drive (such as EN DIR GND, etc.).

1 inch offline instructions Z+ :::: Z+ Mak Main page note:Long prss Z+ to change language SD: Ctrl File Sset File Ctrl Sset Move Page Move Bdrte IPHONE~1.NC 10mm/T 9600 **File Select** Y+ Z+ SPN 0.1mm/T 115200 1mm/T XI OK 5mm/T * OK Setting Function Key Ready To Print Baud rate: 115200 Move XYZ: X+ X- Y+ Y- Z+ Z-Confirm Spindle on/off : A(Spindle) Step : B(Step) OK Back: B(Exit(long press)) ¥ OK Printed:1% Running

1. Boot page:

X+: right X-: left

Y+: Send \$X to the grbl motherboard to unlock the grbl board.

Y-: Send \$H to the grbl motherboard to achieve automatic zero return of the grbl board.

OK/SPN: Confirm button.

Move the page: Manually move each axis to the desired position.

X+: X axis move right direction , X- opposite

Y+: Y axis move forward direction, Y- opposite

Z+: Z axis move up direction, Z- opposite

If there is a problem, the corresponding button on the screen turns gray

OK/SPN: Spindle test switch, press to open the spindle (corresponding to SPN gray on the screen), press again to close the spindle (the corresponding SPN on the screen returns to normal).

OK

Exit/STP:

Function 1: Tap on each axis button of XYZ to change the movement distance by 0.1, 1, 5, 10 cycles each time. Function 2: Press and hold for about 2 seconds to exit, and reset grbl, the current position of the machine is set to absolute 0.

2. File page:

File list Select the file to be engraved. Support documents include: NC, NCC, TAP, TXT, Gcode, GCO, NL, CUT,

 $CNC: Y \mathchar`+: up$, Y-: down

OK/SPN: Confirm the selection and enter the confirmation engraving page.

3. Confirm the engraving page:

Confirm that the engraving file is started without errors.

OK/SPN: Confirmation starts, ready to print becomes the progress display percentage, the OK button on the screen turns gray, and the file selection page is returned after the engraving is completed.

File tool setting: If the file contains G38.2 Z-100, Grbl will perform the tool setting process. After the spindle touches the tool block, the screen will limit the tool value returned by the board.

4. Settings page: Settings : X+: right , X-: left , Y+: on , Y-: next

FAQ

▶ Q: How to use 500mw -15000mw laser

A: 1. 500mw-3500mw laser , please place the material flat under the laser, and make the distance between them within $5\sim10$ cm ;5500mw laser within 3-5cm (less distance will not be able to focus). Press the power switch on the laser driver, then the blue light on . Open the software click weak power, there will be a point on engraved material, just turn around the focus ring on laser to adjust the smallest which is the best focus.

2.15000mw laser is fixed focus laser which is not adjustable. The fixed focal ength is about 20mm. Please use the attached focusing column to determine the distance from the engraved object to the light exit.

► Q: Assemble problem

A: Please refer to the assemble video on Youtube.

- ▶ Q: The software can not be open.
 - A: 1. Please use Win7 and above system 2. Please refresh the firmware.
- ► Q: The stepper motor can not move.
 - A: 1. The current not enough, please adjust the screw on controller.
 - 2. Please check the wire order.
 - 3. Please change the A4988 driver module to check whether has problem
- ▶ Q: Laser module can not burn anything, no light, weak power

A: 1. Please check power, speed setting on software and adjust focus length for laser[refer to above to adjust focus].

2. Please connect the laser to power supply directly ,if it work normal, it means laser is ok, just check connection.

3.After step 2, and confirm laser not work, please contact us to get the solution, if the laser has Quality issues, we support resend or refund!

- ► Q: The picture engraved is the opposite of the original picture A: Just need to adjust on software [Reversal X/Y/Z axis]
- ► Q: The picture engraved distortion.
 - A: 1. Synchronous belt is loose.
 - 2. Synchronous wheel is loose.

30I8Pro CNC Engraving Machine



http://dwz.date/Ar3

Follow our Youtube channel to know more about Laser engraving machine!