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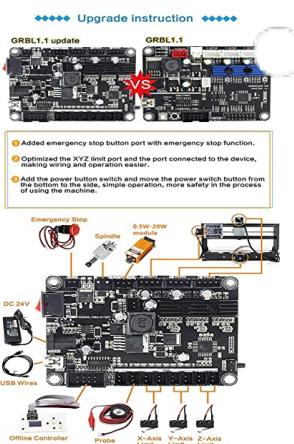
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VIDEO

DIY Mini 3018 PRO Milling Machine 3 Axis GRBL Control CNC Router Kit Engrave

PVC,PCB,plastic,acrylic,wood router Engraving Machine CNC3018 Pro 30x18x4.5cm ER11 Collet with Offline Hand Control (3018 Pro + Offline Controller)

Brand: CNCTOPBAOS

16 ratings

\$210⁰⁰ (\$700.00 /100 cm)

Product details

Brand CNCTOPBAOS

Power Source Ac/dc

- 【Upgrade Version 3018 Pro with Offline Controller】 Mini CNC machine small size, light weight, USB interface, GRBL control systems, great cnc router machine for beginners;you can operate this machine without connect the computer; offline controller included a SD card reader to write into the root directory G-code files or NC file; Support manually adjust X, Y, Z axis location as engraving starting point,manually open or close spindle.
- 【Main Feature】 Working area:30x18x4.5cm;Frame size: 40x33x24cm;Type: USB Port Desktop cnc router/Spindle: 775 spindle motor (12-36V) 24V:10000rpm/ Stepper Motor: Nema17 stepper motor,1.3A, phase resistance 2.1 ohms, torque 0.25N.m
- 【System requirements】 Windows XP SP3,Win 7,Win 8,Win 10 (32/64 can be). Linux; Can't support Apple product
- 【Main application】 Can be engraved plastic, wood, acrylic, pvc, pcb, wood and the like material.soft metal like copper and aluminum and other materials, but can not carve hard metal, jade or other very hard texture of the items. if you have the module,you also can change the spindle to a 3pins module,also can carve the kraft paper, wood, leather(wallet), bamboo.
- 【GRBL Software】 Our parcel include a 4G USB flash drive,it include the installation instructions,user manual and GRBL software

Customer ratings by feature

Easy to assemble 4.4

For beginners 3.1

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Product Description

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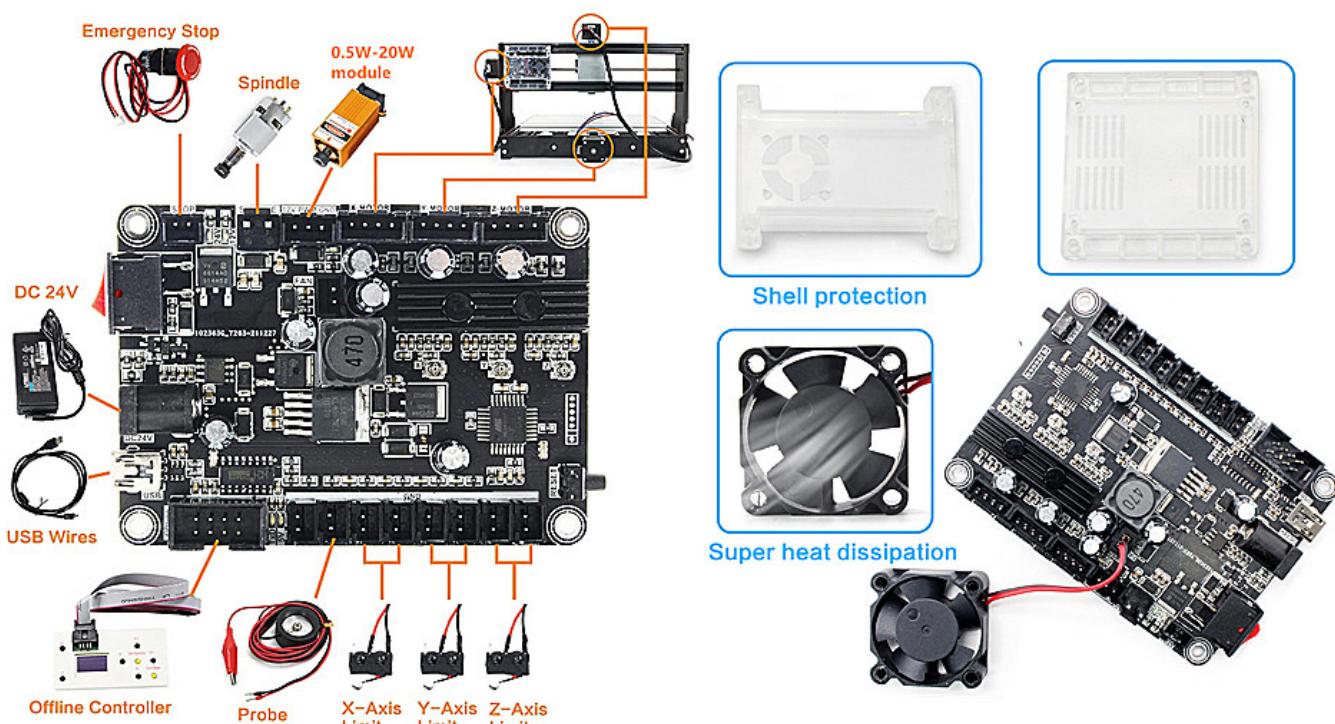
- 1Set CNC 3018 Pro 3 Axis CNC Router Engraving Machine Kit
- 1x GRBL 1.1f Control Board
- 1x Offline hand controller
- 1x ER11 Collet
- 1x Power Supply
- 10x 20°0.1mm Drill Bits
- 4x plate clamps
- 1Set Allen Wrench
- 1x 4G USB flash drive include english user manual & GRBL software

**CNC 3018 Pro w/ offline hand controller**

- Dimensions: 40x33x24cm
- Stepper motor: Nema17 stepper motor 34MM,1.33A,0.25N.m
- Maximum stroke: 30x18x4.5cm
- System support: Windows XP / Win 7 / Win 8 / Win 10 (32/64 can be). Linux;
- Power supply parameters: AC110-240V
- Chuck specification: ER11 Collet
- Processing thickness:4.5cm

- Material: Aluminum Alloy
- Control system: grblcontrol, USB interface
- Drill bits: 10pcs tip 0.1mm ,20 degree,diameter3.175mm.

GRBL controller board



1. Support software: GRBL controller, Candle, UniversalGcodeSender
2. Add emergency stop button port, tool probe port and XYZ limit port.
3. Power supply: 12-24V DC
4. The spindle supports 0-100% adjustable PWM power.
5. Support limit switch, tool setting, steering gear, cooling fan and other functions.
6. Support PWM / TTL signal control, power 0-100% adjustable!
7. Increase the power button switch
8. Cancel the drive module, integrate the imported stepper motor drive, no need to worry about module damage. And integrated heat dissipation aluminum alloy.
9. Add offline recognition function, you can insert offline module and computer at the same time. The machine will automatically recognize whether it is controlled by the computer.
10. Enhanced spindle drive. can support 20,000 rpm spindle.
11. Add the fan port to force heat dissipation

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GRBL controller board

- **Connection:** USB (USB-CH340)
- **Software:** GRBL controller, UniversalGcodeSender
- **Input voltage:** 12-24VDC
- **Master chip:** atmel 328P (arduino nano)
- **Spindle drive chip:** MOSFET (recommendation 24V, current : within 10A)
- **Spindle PWM speed:** Support
- **Support stepper motor:** 12V, maximum current of 2A or less is recommended within 1.5A and additional heat. (Any stepper motor Nema17/Nema23)
- **Power Interface:** 5.5-2.5mm DC interface
- **Support 3-pins module:** support 0.5W-20W module
- **Supporting file:** G-code (.nc/.txt/.tape/.gcode)



775 spindle motor

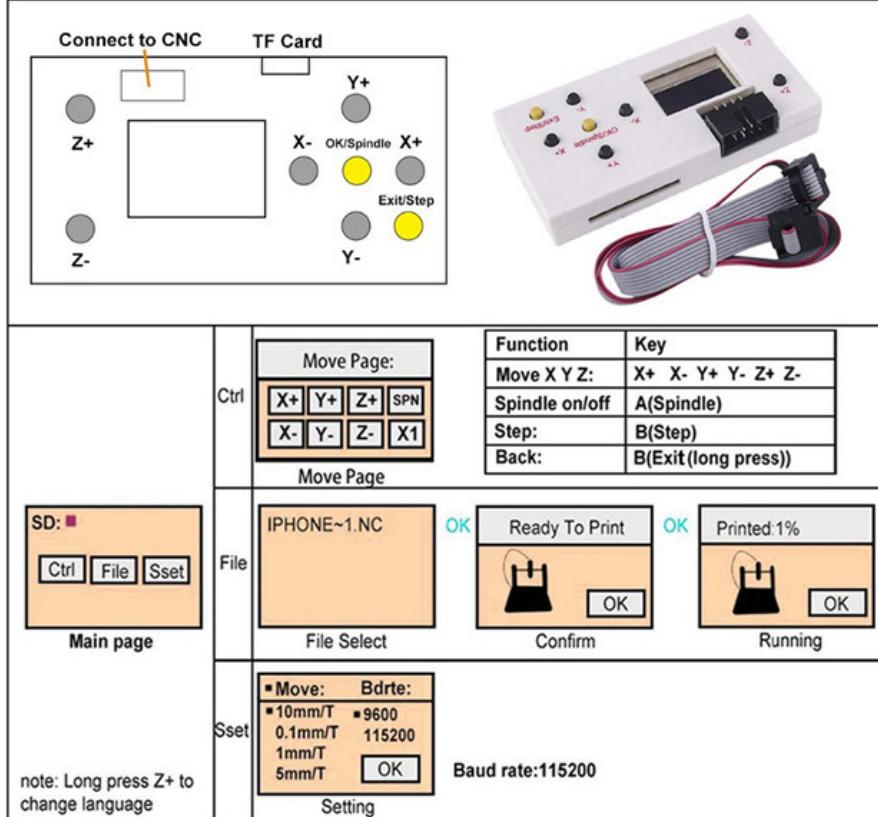
- **Spindle parameters:** 775 spindle motor (12-36V) 24V:10000r/min
- **Mounting hole diameter:** M4 screw hole; Mounting hole pitch: about 29mm.
- **Spindle PWM speed:** Support;power 0-100% adjustable
- **Motor shaft diameter:** 15mm; Motor diameter
- **Drill clamp parameters:** ER11-3.175mm (can be replaced 0-7mm)
- **Control software:** grbl control(candle)
- **Supporting files:** G-code (.nc/.txt/.tape/.gcode...)
- **Processing accuracy:** About 0.2mm
- **Machinable material:** Wood、plastic、PCB、PVC、carbon fiber、acrylic、density board etc
- **Power:** DC 24V 5.6A power adapter (input voltage 110-240VAC)



Offline controller

- Support SD card and TF card at the same time, standard capacity 1G.
- With this offline controller module, you can directly control the CNC router without connecting it to your computer.
- After inserting the file into the SD card, the engraving file can be directly identified. You can also use the micro USB cable to connect the offline hand controller board to your computer and save the file directly.
- Manually control: manually adjust X,Y,Z axis location as engraving starting point, manually open or close spindle, manually open or close cooling fan
- File engraving: after off-line controller save file, it can connect the GRBL control board and process engraving, no need to connect PC computer
- Save file: after the off-line controller connect PC, it will be recognized as USB, large capacity storage device, can access engraving file directly.
- SD shows it is SD card condition, turn on power supply after insert SD card, otherwise, it won't work. SD card capacity 4G could be recognized.

Add Offline controller



GRBL Offline Controller

(1) Main Page

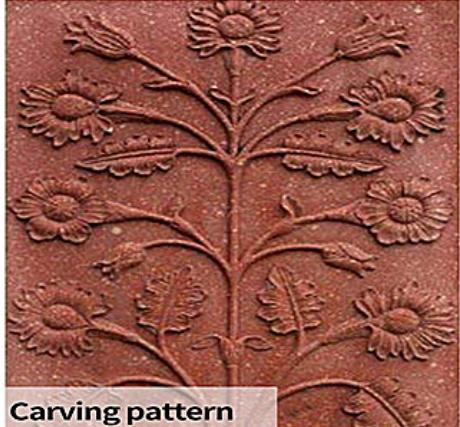
- Ctrl: Machine Control; File: Use the Gcode file; Press [Y+] [Y-] to select; Press[Ok] to Enter

(2)Control Page

- X± Y± Z±: Moving Axis
- OK/Spindle: Spindle ON/OFF
- Exit/Step: Change Step/Exit (long press)
- How to increase the spindle power: After pressing the spindle button, press and hold the OK button and the Z+ button simultaneously to increase the speed.
- How to decrease the spindle: After pressing the spindle button, press and hold the OK button and the Z- button simultaneously to decrease the speed.

(3)File Page

- Common supported formats include nc. tex. tap.
- Press [Y+] [Y-] to select file
- Press [Ok] to Enter
- Press [Ok] to begin if you are ready
- Note:Long press [Exit] to stop machining



Carving pattern



Insulation board cutting



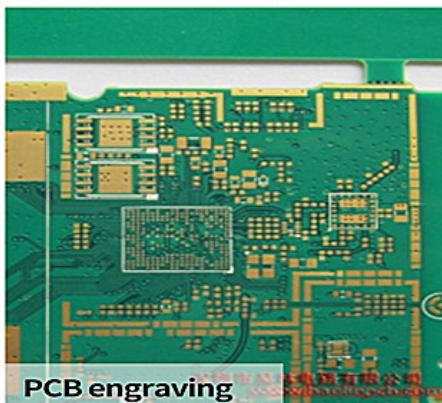
Carved house number



Hollow carving



Relief sculpture

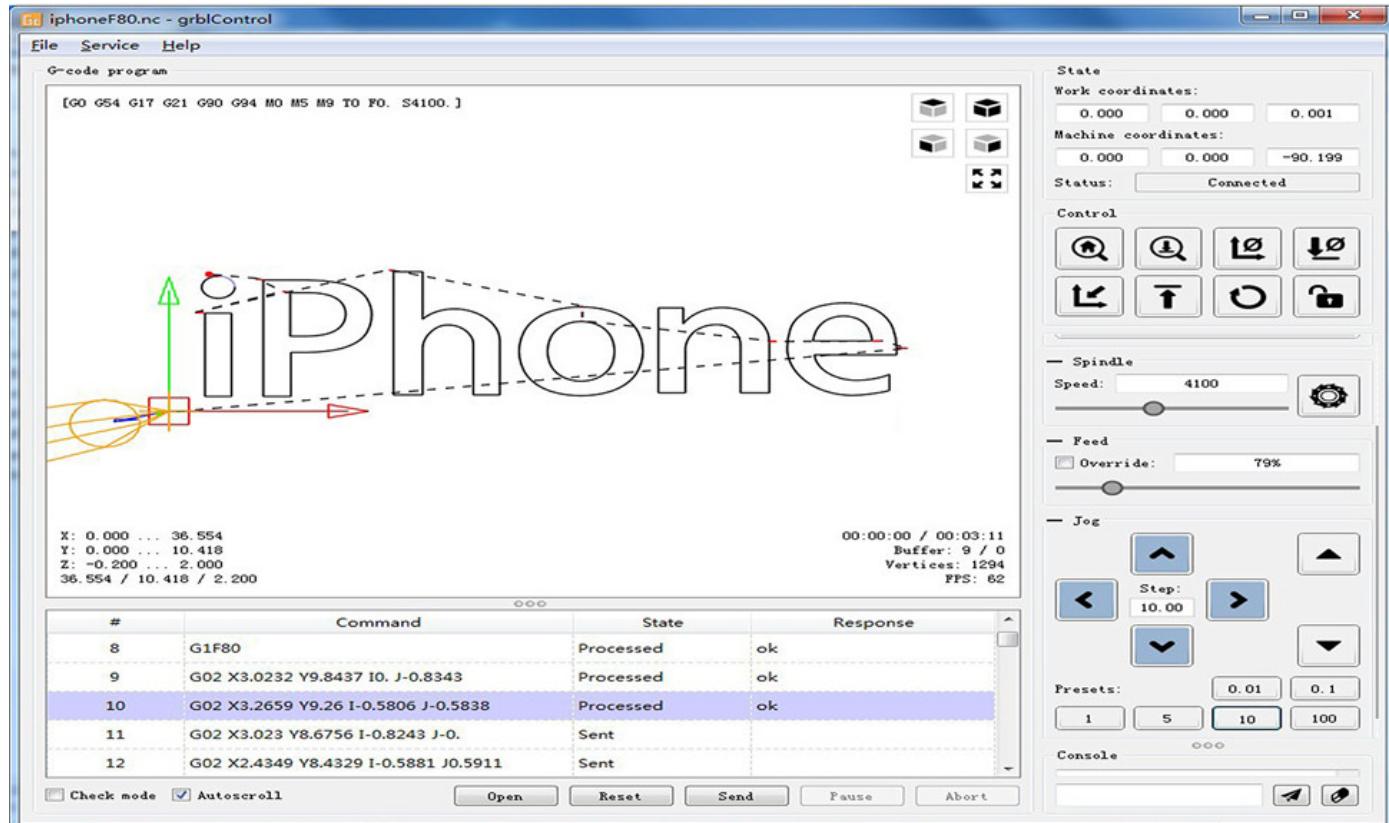


PCB engraving

Applications

- CNC 3018 Pro Mini CNC machine small size, light weight, USB interface, GRBL control systems, great cnc router machine for beginners;3018 Pro cnc machine is very easy to install,stable structure.
- Main application:can be engraved plastic, wood, acrylic, pvc, pcb, wood and the like material.soft metal like copper and aluminum and other materials, but can not carve hard metal, jade or other very hard texture of the items.
- If you change the spindle to a module,then also can carve the kraft paper, wood, leather(wallet), bamboo, rubber.

GRBL software



- Our parcel include a 4G USB flash drive, you can download the english user manual and GRBL software from the flash drive.
- File Format (gcode): *.nc, *.ncc, *.ngc, *.tap, *.cnc.
- Software used to create Gcode: Carbide Create, Artcam, MeshCam, Fusion360, Inkscape etc.

Product information

Technical Details

Manufacturer	CNCTOPBAOS
Place of Business	Changzhou, Jiangsu 213100,CN
Parcel Dimensions	44.2 x 24.89 x 18.03 cm; 6.8 Kilograms
Style	3018 Pro + Offline Controller
Power Source	Ac/dc
Batteries Required?	No
Item Weight	6.8 kg

Additional Information

ASIN	B08BCDVBHK
Customer Reviews	16 ratings 3.4 out of 5 stars
Best Sellers Rank	#7,504 in Industrial & Scientific (See Top 100 in Industrial & Scientific) #32 in Power Milling Machines
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Customer questions & answers

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Question: Can you attach a knife instead of the spindle to cut paper? and what type of knife would it be?

Answer: You could try and find a drawl knife that has a shank that will fit your available er 11 collets
By Amazon Customer on August 14, 2021

0
votes

Question: Can a jpeg logo be used?

Answer: No, cannot use .jpg file.
I'm not sure if there is a software out there that can convert .jpg file to G-code.
But the way to do it is that you recreate (re-draw) the .jpg file with a 3D software; then there is software that can convert that 3D file to G-code
By Hung Nguyen on May 11, 2021

0
votes

Question: Does the board run marlin?

Answer: No, it runs GRBL.
By Peter on June 14, 2022

0
votes

Question: What software comes with the machine?

Answer: use Grblcontrol (Candle)
By C on May 10, 2021
[See more answers \(5\)](#)

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Customer reviews

[Top reviews](#)

3.4 out of 5

16 global ratings

Top reviews from Canada



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Nick

Cheap but toxic

Reviewed in Canada on February 21, 2022

[Verified Purchase](#)

All of the frame parts that are not obviously aluminum extrusion are made of Bakelite, which contains lots of formaldehyde and in some cases asbestos. The Z axis also has quite a bit of deflection under moderate cut loads. In addition to potentially giving you cancer and shortening your lifetime it will also engrave parts.

3 people found this helpful

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By feature

Easy to assemble

4.4



Bert Laqua

For beginners

3.1

a fun little machine. Buy some dupont wires and limit switches. No Estop with my unit

Reviewed in Canada on January 26, 2022

[Verified Purchase](#)

Well to start x and z were not properly marked. Also the fan on the controller board very noisy I believe it is failing. Didn't need any calibrating but grbl needed some setting changes. A fun little machine would be nice if a template for a wasteboard be included. Also and estop and the fan a three wire fan pwm instead of a cheap 2 wire one. The backlash nut could use a stronger spring. maybe a suggestion to help with this. limit switch mounting hardware would be a nice touch. Well pretty rigid and for engraving ok. Have fun with it.

One person found this helpful

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Mike Goertz

Had this unit for 2 weeks and haven't been able to use it.

Reviewed in Canada on November 3, 2021

[Verified Purchase](#)

Had this unit for 2 weeks. Fairly easy to put together. Control board failed. Supplier sent replacement, but all that showed up was an extra USB cable. Supplier said shipping new control board. Still waiting.

One person found this helpful

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SC

CNC 3018 Pro - X axis screw bent corrected

Reviewed in Canada on April 12, 2021

[Verified Purchase](#)

The X axis screw is bent. The seller corrected the situation very quick and agreed to ship a new one at their cost. Thank you

2 people found this helpful

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cj2121

Great starter machine

Reviewed in Canada on May 31, 2022

[Verified Purchase](#)

Once you figure out what programs to use, it's a great little machine

[Helpful](#)

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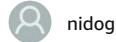
Mike

surprenant

Reviewed in Canada on April 27, 2021

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Le montage est un jeu d'enfant. Plutôt surprenant pour le prix, un seul LÉGER lousse sur l'axe des Z

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nidog

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pas eu le temps de faire une gravure avec grillé

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