

CNC 6090 Mini CNC Engraving Machine 3 Axis with DSP Controller and 2200W Spindle

Developed and designed together by our technicians and overseas engineers of King Saud University from Saudi Arabia.

The acceptable material thickness can high to 150mm, much bigger than general [mini CNC machine](#) with max 100mm.





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Easy operating because:

- With DSP controller box, no need to connect with any computer or notebook.
- Work independently.
- SD card slot interface
With SD card slot interface.
- 2.2KG water-cooled spindle, powerfu!
- Fast working speed.

- Live video support on Youtube.

What are the advantages for the New DSP Control System ?

- [Independent DSP system, work without a computer.](#)
- Insert TF memory card, automatic reading and processing files.
- By operating the control box, you can program and carving directly.
- G-code files can be directly edited, delete, insert, and so on

What are the main features for this new CNC 6090 Mini CNC Engraving Machine 3 Axis?

- USB interface
- English manual available.
- [Original mach 3 software available\(for selection\)](#)
- [Can engrave material such acrylic, brass, wood, aluminum, PCB and so on.](#)
- Balls crew made it a higher precision.
- [It is can be updated into 4 axis 6090 CNC Router](#)
- Auto-Checking function, easy to set origin of Z axis
- With built-in frequency converter in control box
- It has a broaded base and a thicker screw for larger material working.
- Limited switches added.
- From reliable & trustable profesional [China CNC Router manufacturer.](#)

02 Parameters ChinaCNCzone

CNC 6090 Mini CNC Engraving Machine 3 Axis parameters	
Shape dimension	X890mm*Y1250mm*Z670mm
Max.workpiece dimension	X600mm*Y900mm*Z150mm
Frame materials	aluminum alloy 6063 and 6061 the unique and dedicated mold extrusion profiles. let counterfeiter's dwarfs
Acceptable material thickness	≤150mm
Driving units	X: 1605 ball screw
	Y: 2005 ball screw
	Z: 1605 ball screw
Sliding units	X: Dia.30mm chrome plate shafts
	Y: Dia.30mm chrome plate shafts
	Z: Dia.16mm chrome plate shafts
Stepping motor type	57-76 two-phase 3A 150N.cm
Spindle motor	brand new 2.2kw water cooling spindle, 24000RPM
Spindle collet	ER16-A, 3-10 mm shank diameter tool
Repeat accuracy	≤0.05mm
Spindle precision	Radial beat acuties 0.03 mm

Carving Instructions	G code/ TAB files/ nc file/ NCC files
Maximum speed	4000mm/min
Carving speed	0-2500mm/min (different materials differ)
Command code	G code
Software	Mach 3 or USB software
Protection	Emergency stop button
Operating Voltage	AC110V/AC220V

03 Product Images ChinaCCzone

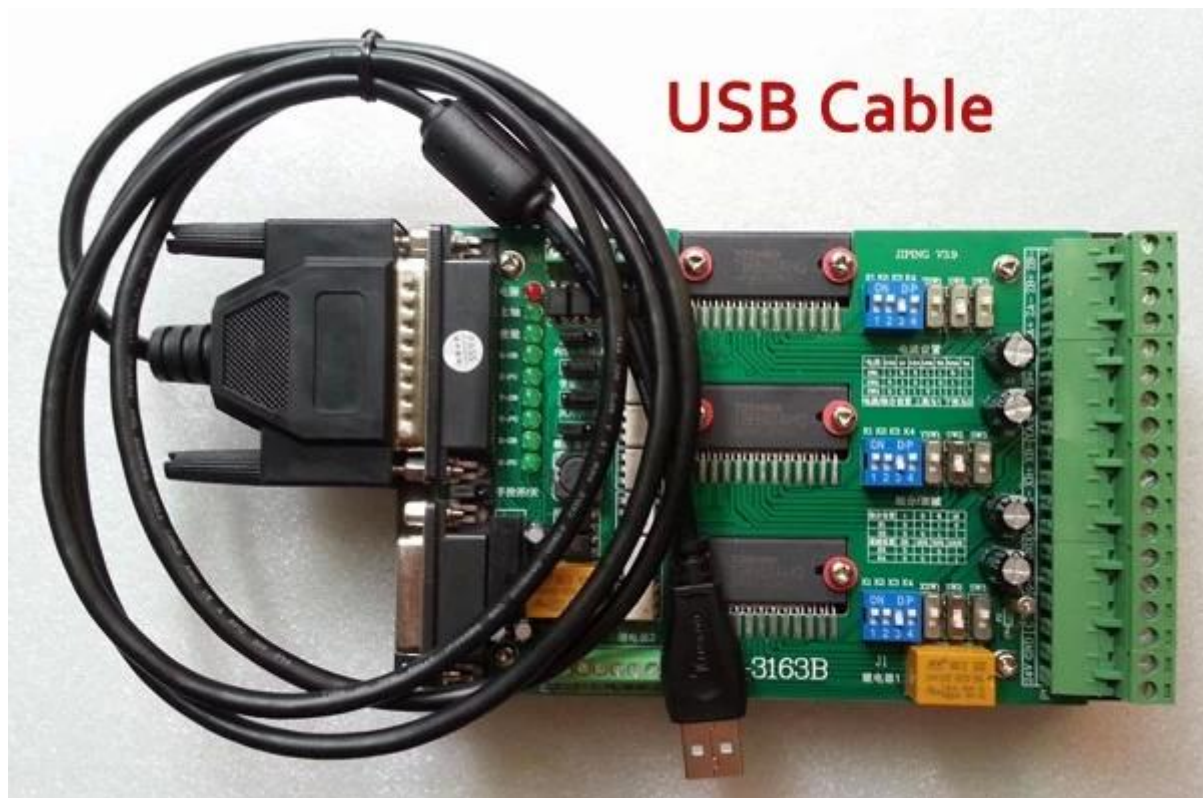












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04 Applications

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This new CNC 6090 Mini CNC Engraving Machine 3 Axis can be widely used to engrave wood, acrylic, brass, alumimun,PVC, PCB and so on.



05 Factory Tour

ChinaCNCzone

ChinaCNCzone team always welcome customers from all over the world to visit our factory, and let us provide the best different models [mini CNC routers](#) for users together.



QA Inspection Area



Mechanical Assembly Area



Machine Commissioning Area



Finish Products Area



Packaging Area



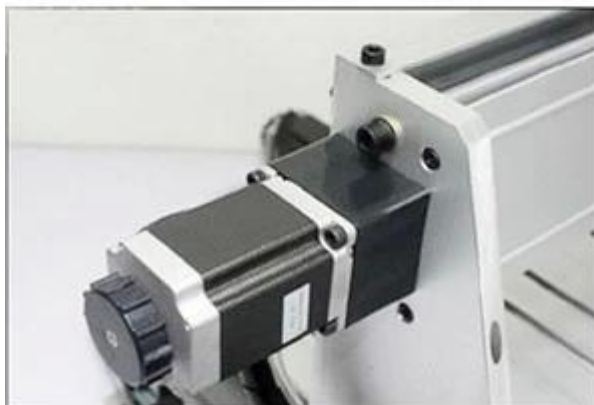
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Certifications

China CCzone

Always be imitated, never be surmounted.

We all use well-designed professional aluminum to manufacture the machine. Almost all of the structural member are extruded by a dedicated mold. The production of large quantities so that we have a strong price competitiveness. Professional mold and materials so that our quality has been stable protection.





ChinaCNCzone, engrave your colorful life!

客户合影及企业文化



