

ChinaCNCzone New DSP [CNC 6090 mini CNC](#) router with 1500W/2200W Spindle and Water Cool System

Why add the Sink cooling system ?

It can cool the spindle and protect the machine.

Avoid the spindle burn out when you

Can engrave the high hardness or metal

It can improve the efficiency and accuracy of the machine.

What are the main features for this new DSP CNC 6090 [Mini CNC Router](#) ?

1. The acceptable material thickness and effective working area of Z axis is 150mm.
2. New added water cooling system, enlarge the working fields and prolong the working life.
3. With 1500W and 2200W Spindle selection
4. With 3 axis and [4 axis CNC](#) version for selection, the 3 axis version can be updated into 4 axis easily according to your need.
5. USB interface
6. English manual available.
7. Can engrave material such as acrylic, brass, wood, aluminum, PCB and so on.
8. Ballscrew made it a higher precision.
9. Auto-Checking function, easy to set origin of Z axis
10. With built-in frequency converter in control box
11. It has a broadened base and a thicker screw for larger material working.
12. Limited switches added.
13. From reliable & trustworthy professional [China CNC Router](#) manufacturer.
14. DSP controller box.
15. It has a broadened base and a thicker screw for larger material working.

What are the advantages of the DSP controller box?

1. With the DSP controller box with independent DSP system, the mini CNC router can work without a computer.
2. After copying the G-code to your SD card, you can insert the TF memory card into the TF card slot on the DSP controller box, and then run the G-code directly.
3. G-code files can be directly edited, deleted, inserted through the DSP controller system.
4. Very easy to operate and suitable for factory application.
5. Select the mini CNC router with DSP controller system, NO need to use the Mach3 software any more.

DSP CNC 6090 router Parameters	
Effective working travel	600(X)mm*900(Y)mm*150(Z)mm
Shape dimension	890*1250*670mm
Frame materials	Aluminum alloy 6063 and 6061 the unique and dedicated mold extrusion profiles. let counterfeiter's dwarfs
Axis	3 Axis and 4 Axis version
Acceptable material thickness	≤150mm
Driving units	X,Z SFUR1605-DFC7-P0 ball screw, Y SFUR2005-DFC7-P0 ball screw
Sliding units X Axis	Dia.30mm chrome plate shafts
Sliding units Y Axis	Dia.30mm chrome plate shafts
Sliding units Z axis	Dia.16mm chrome plate shafts
Stepping motor type	57 two-phase 3A 150N.cm
4 Axis size and precision	220(L)*116(W)*105(H)mm, 9KG Transmission ratio: 1:3, 0.6 degree/step, K11
4Axis maximum clamping diameter	Center height 65mm, 3 Jaw 80mm Chuck, Maximum clamping 125mm ,Tailstock maximum expansion length 50mm ,Maximum clamping weight 30kg
Spindle motor	Changlong GDZ80-2.2, 24000RPM, 1500/2200W
Principal axis collet	ER20 1-13mm
Repeat accuracy	0.05mm
Spindle precision	radial beat acuities 0.03 mm
Maximum speed	0-4000mm/min
Control unit	E100S2R2B + JMC542 drive board+1635A 4th Axis drive board + DSP Controller
Computer connection	DSP control No need connect computer
Command code	G code, or any MACH3 support format file
Protection	Emergency stop button

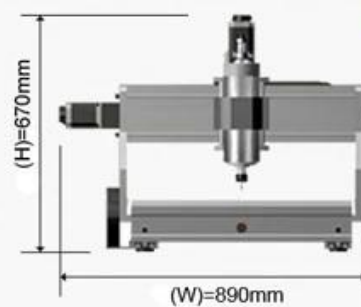
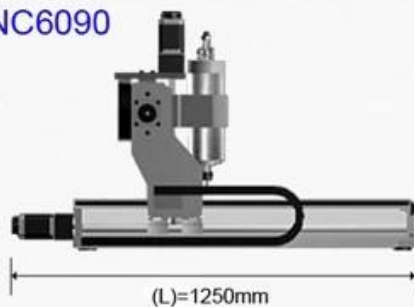
Operating Voltage	AC220V/110V
Accessories	Pump, Auto checking tool , cutter, banner and so on.
Warranty	Two Year
Package size	One wooden box package , 121*86*82cm
Gross weight	156KG

03 Product Images

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Model: CNC6090

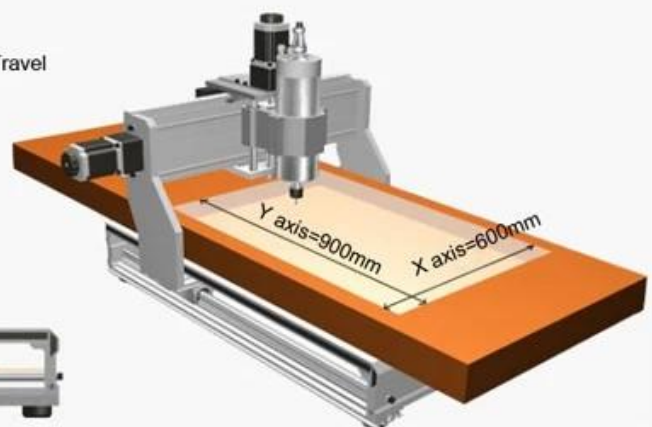
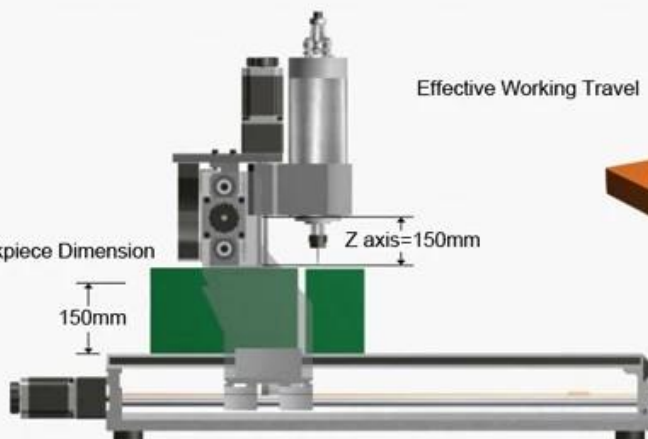
Shape Dimension



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Effective Working Travel

Max. Workpiece Dimension

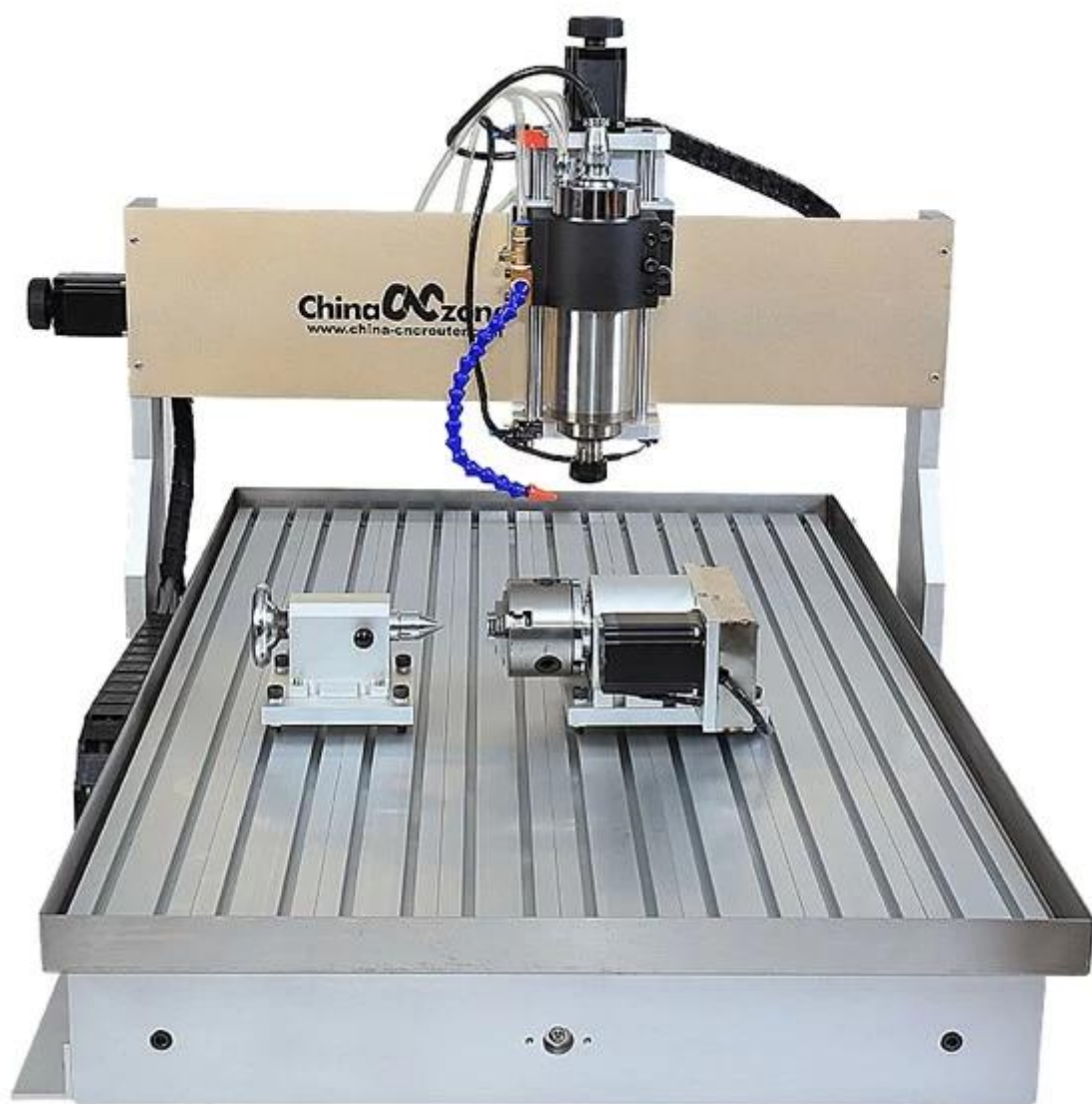






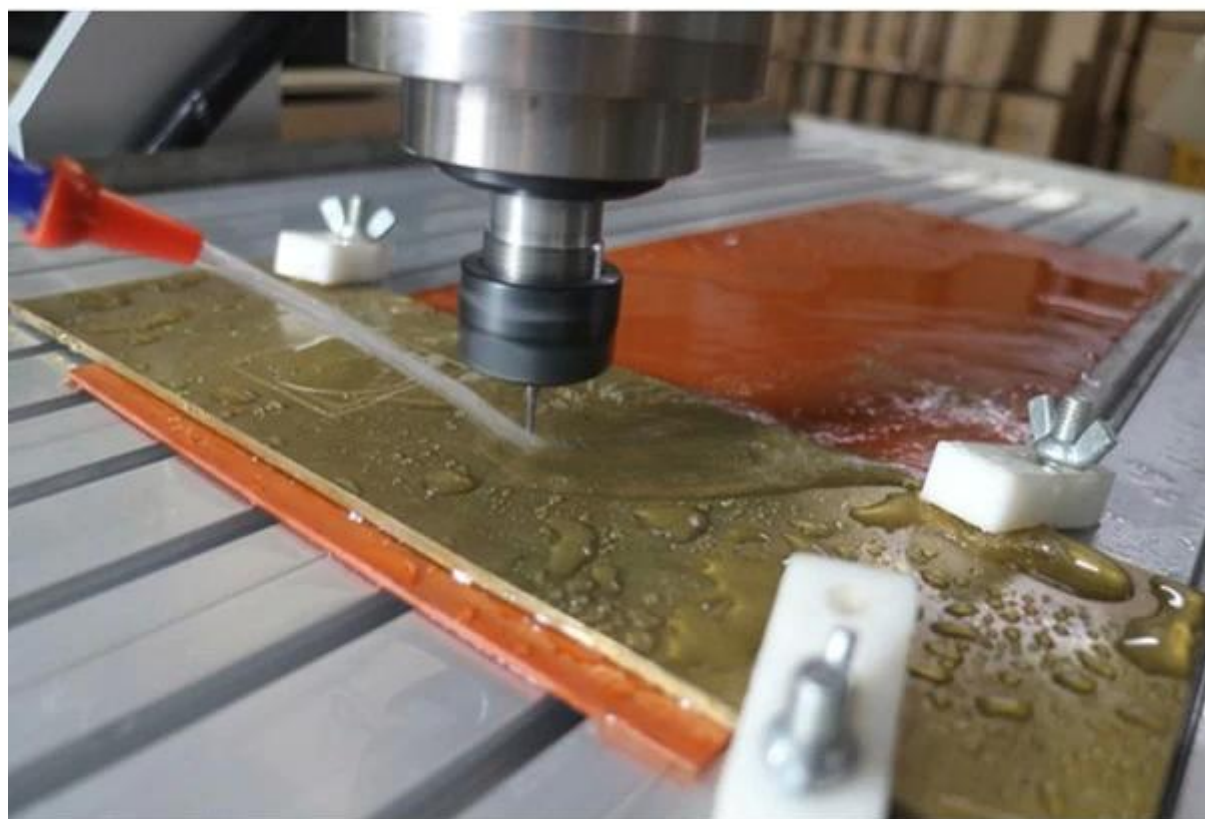


















CNC 6090 Mini CNC Engraving Machine 3 Axis

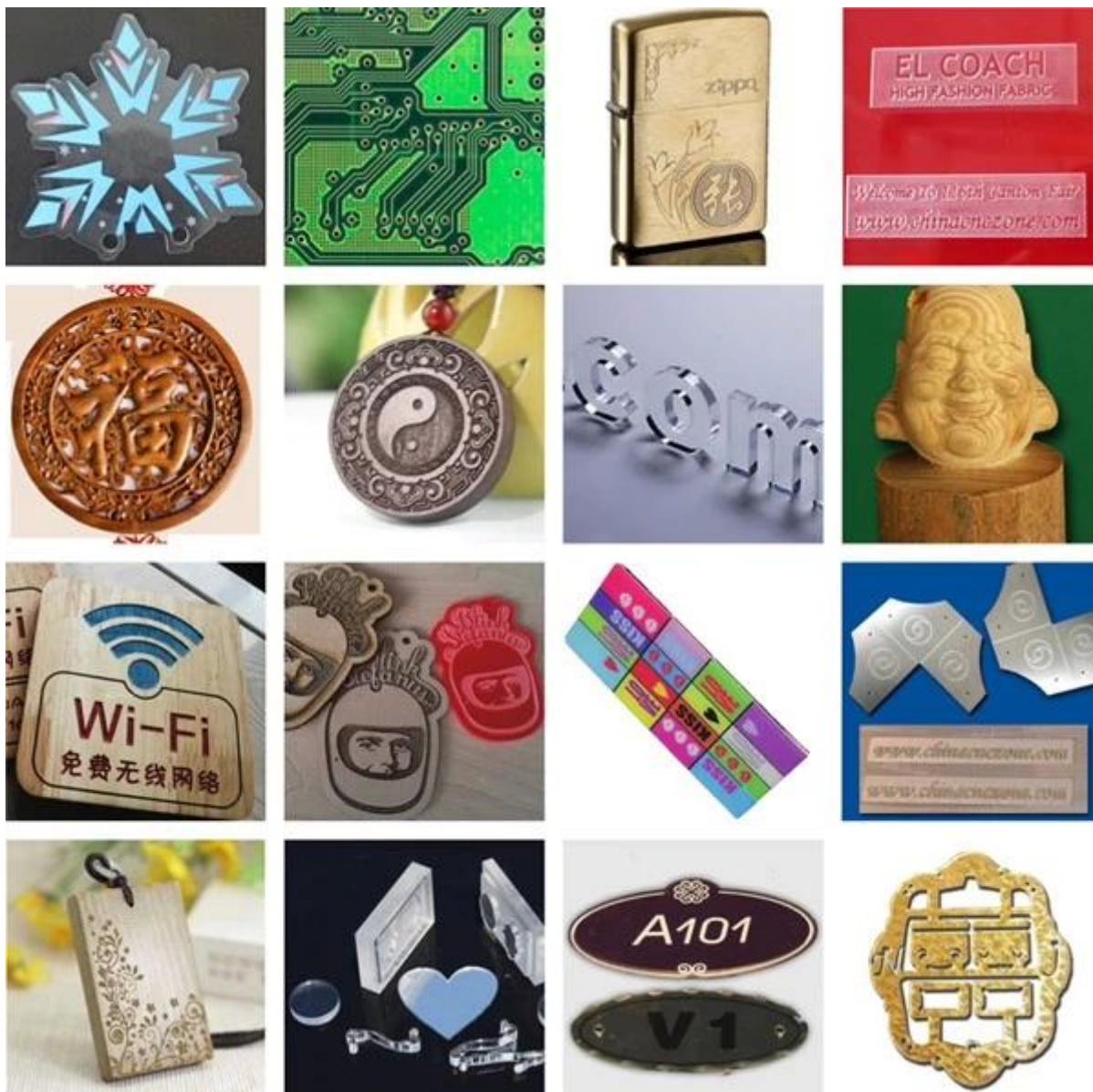




04 Applications

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This new DSP CNC 6090 with cooling system 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

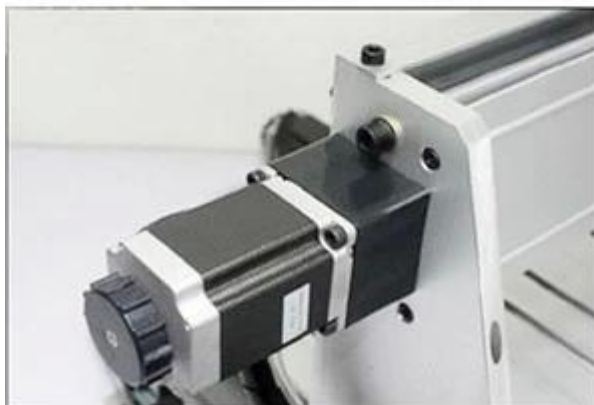


Packaging Area



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



