

Latest Desktop 6090 [Mini CNC Router](#) Hobby CNC Machine Price Competitive

## **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 [CNC 6090 Mini CNC Router](#) ?**

1. The acceptable material thickness can high to 150mm, much bigger than general mini CNC Router with max 100mm.
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 acrylic, brass, wood, aluminum, PCB and so on.
8. Balls crew 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 broaded base and a thicker screw for larger material working.
12. Limited switches added.
13. From reliable & trustable profesional [China CNC Router](#) manufacturer.
14. DSP controller box.
15. It has a broaded base and a thicker screw for larger material working.
16. with Mach3 controller box and USB CNC controller box for your selection.
17. The spindle speed can controlled by MACH3 software.

**PS: We also have [DSP CNC 6090](#) for you selection.**



# Type 3 controller

Front



Back



+



Ethernet USB  
interface



## Type 1 controller

Front



Back



parallel port +

USB CNC cable (option)



## 02 Parameters

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New 6090 Mini CNC 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 counterfeiters 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	Controller box with Parallel Port and USB Interface or USB Controller for Mach3 Software
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



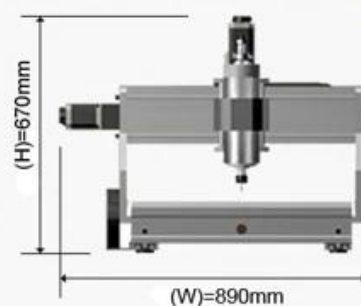
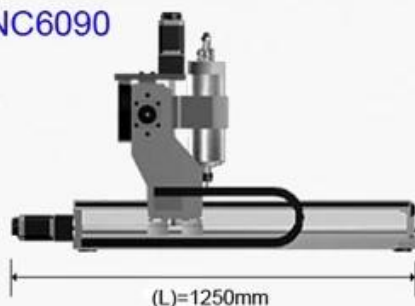
Gross weight	156KG
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# 03 Product Images

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Model: CNC6090

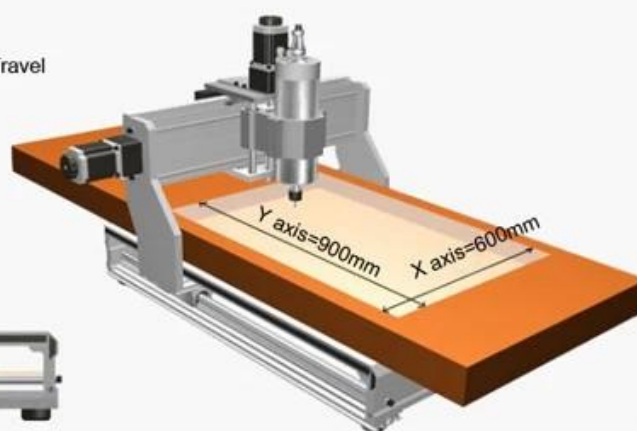
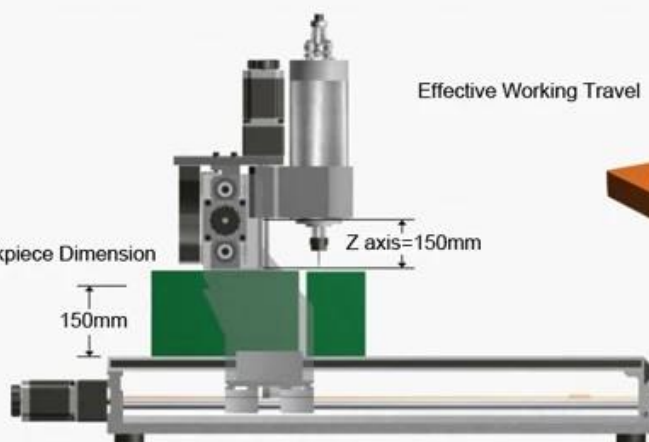
Shape Dimension



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Effective Working Travel

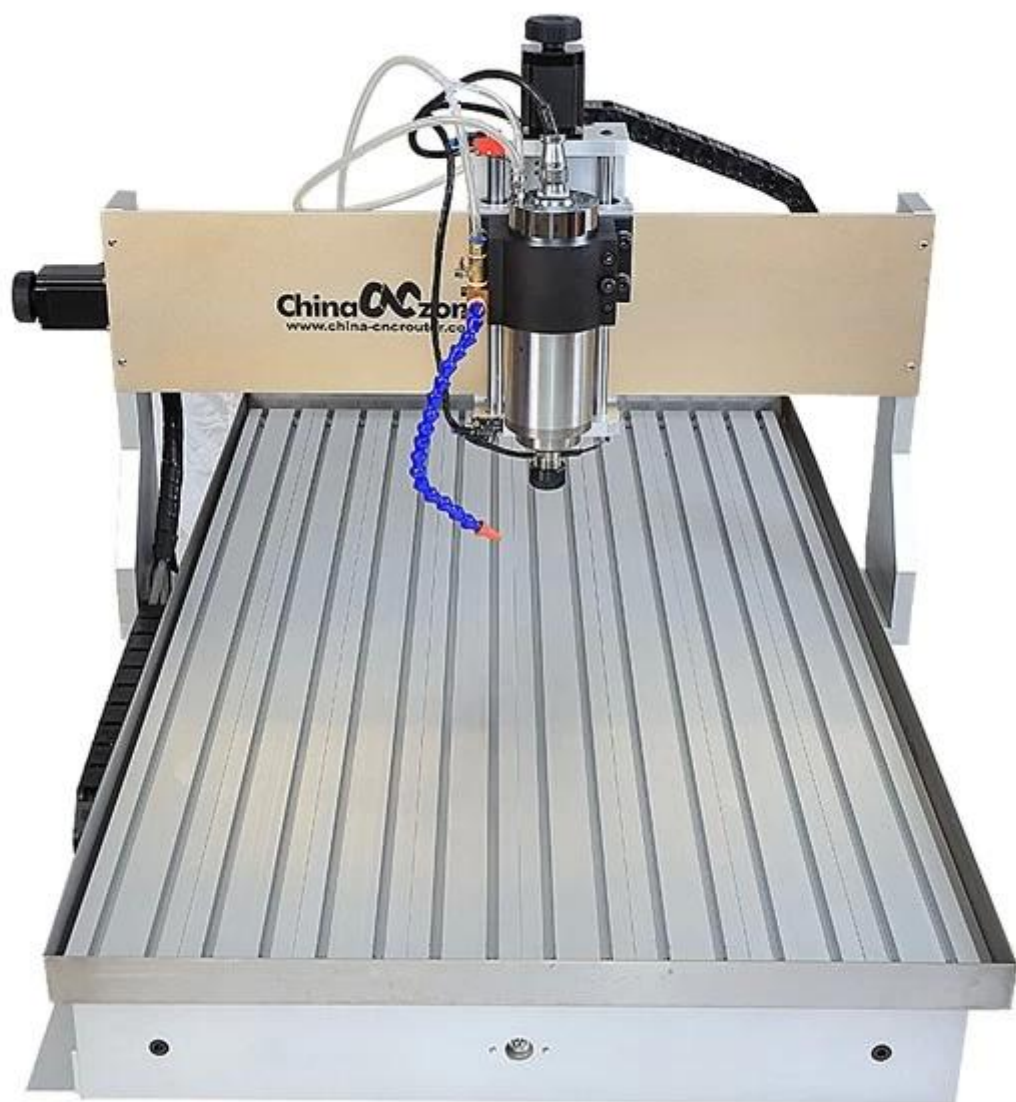
Max. Workpiece Dimension











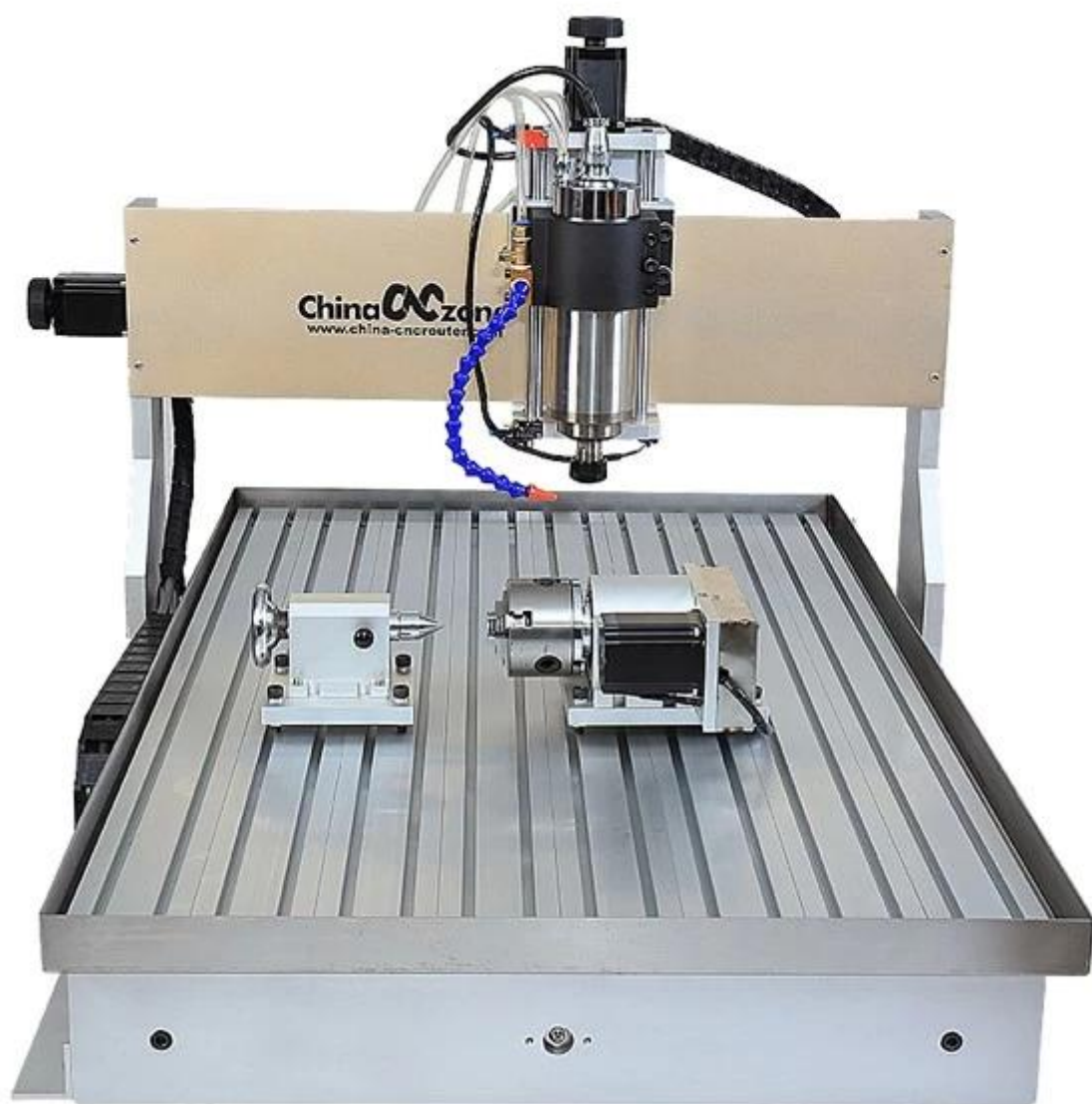












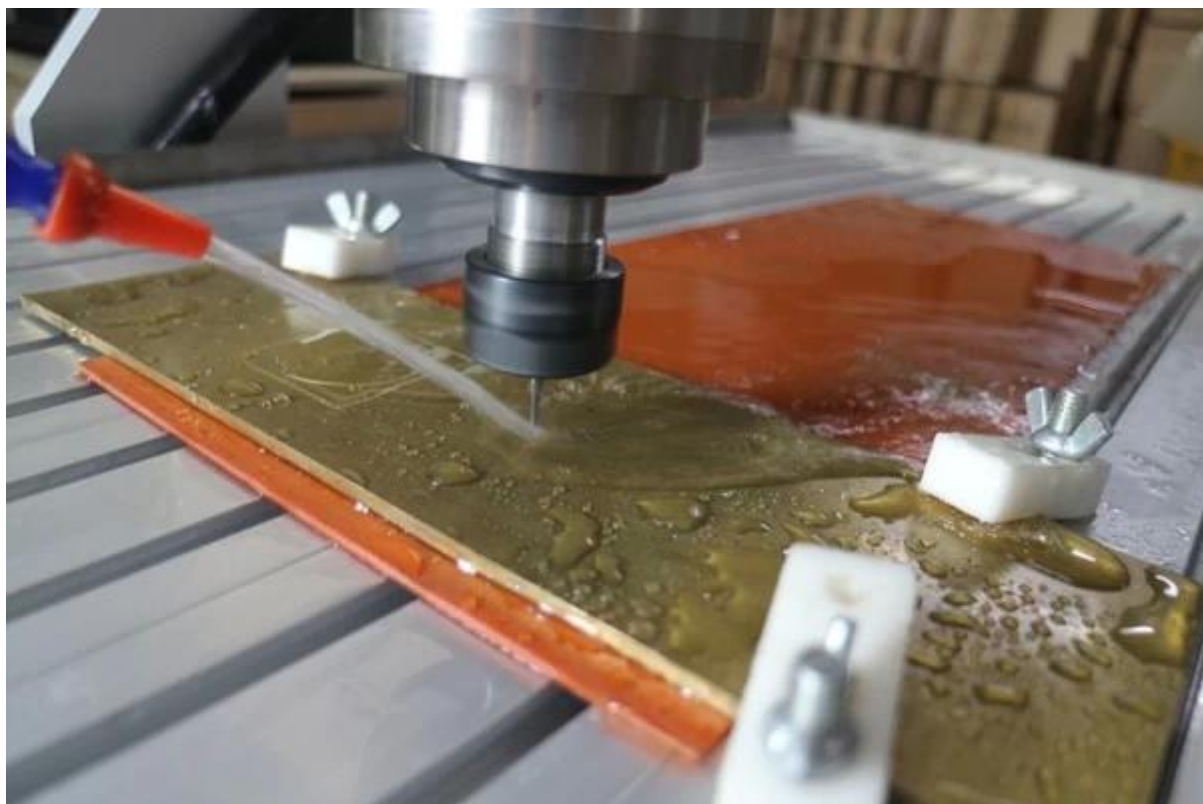








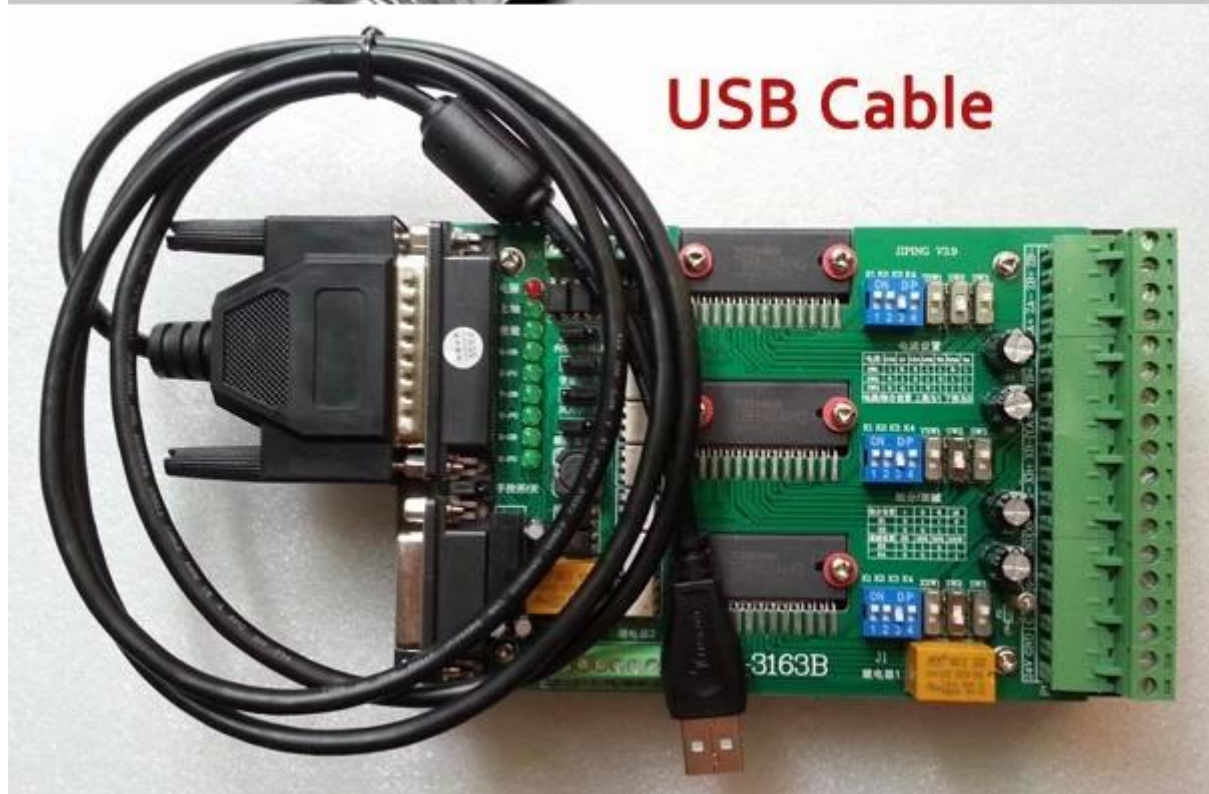












**CNC 6090 Mini CNC Engraving Machine 3 Axis**









## 04 Applications

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This new Desktop 6090 [Mini CNC](#) Router Hobby CNC Machine 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**



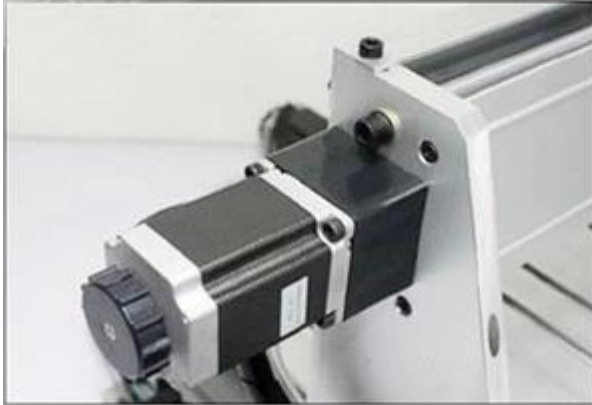
**Packaging Area**





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





