



## Hobby Mini CNC Machine

SUNNA Mini 2'x3' 6090 CNC router, made in China. The Hobby CNC Router has a smaller 24x36 inch workbench. The 6090 CNC router covers a small area, easy to operate, affordable, especially suitable for hobby users or small shops, the factory supply price is suitable for hobby shop individual buyers and regional large agents.

High quality SUNNA 6090 CNC router is offered by China manufacturer Jinan Sunna International Trade Co.,Ltd.. SUNNA small CNC milling machine uses a powerful CNC milling machine structure design, very stable, high precision. The SUNNA 6090 CNC router is equipped with a 2.2KW spindle, PMI linear guide, helical rack and pinion, and TBI ball screw to ensure its stability and accuracy. Compact CNC routers can be sized to fit any small workspace. And it's easy to move.

SN-6090 CNC router adopts rack and pinion. As an entry-level machine, the SN-1290 delivers quality and reliability every cut. The gantry is welded, stress relieved and precision machined. The gantry is engineered to provide smooth, vibration-free cuts. Low cost 3 Axis CNC router Carving Machine with 4'x3' table size (SN-1290) is used for flatbed carving and cutting wood furniture, gifts, boxes, models, arts and crafts, signs, logos, aluminum, cooper engraving.



## What Is 3-axis CNC Router?

The most basic form of CNC router has three axes and can move and cut along each of them at the same time.

X-axis moves from left to right

Y-axis moves from front to back

Z-axis moves up and down

## Product Parameter (Specification)

Model	SN-6090
Working Area	600*900*200mm
Table structure	T-slot Aluminum table with PVC
Traveling Positioning Accuracy	±0.03/300mm
Repositioning Accuracy	±0.03mm
Frame	Welded Structure
Transmission Device	X, Y axis: Precision helical tooth gear transmission; Z axis by ball screw
	Taiwan 20 linear guide
Travel speed	0-25000mm/min
Working speed	0-18000mm/min
Control system	NC-studio
Spindle power	2.2KW water cooled spindle motor(Italy HSD Spindle for Option)
Spindle speed	0-24000rpm
Diameter of cutter	φ3.175-φ12.7mm
Command code	HPGL G-code
Working voltage	AC220V/380V
Device interface	Standard PCI/USB interface optional
CNC Router Software	Type3/Ucancam/Artcam
Resolution	0.1mm

Warranty	12 months
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## Product Feature and Application

- 1) 3 Axis CNC router Carving Machine can fix processing materials of different sizes effectively.
- 2) Taiwan TBI balls screws, HIWIN/PMT square guide rails, high precision, large load bearing and 3 Axis CNC router Carving Machine running.
- 3) Gantry-travelling, steady, reliable and stable, non-deforming, high locating accuracy.
- 4) Y axis use servo/stepper motor driver, select matching to ensure smooth movement.
- 5) Nc-studio controller, connect with computer. Also have Mach3(can connect with desktop computer or laptop) or DSP(Don't need connect with any computer, independent utility) for your choice.
- 6) Unique ability to save several point of origin on several workpieces.
- 7) No engraving saw-tooth, smooth undersurface, legible contour, by high-power spindle.
- 8) Auto seeking original point system, a good way to improve the working efficiency.
- 9) Large compatibility of drawing software, such as Type3, artcam and some other CAD or CAM.

## 3 Axis CNC router Carving Machine Kit Main Parts

3 Axis CNC Router Carving Machine 3 Axis CNC Router Carving Machine 3 Axis CNC Router Carving Machine 3 Axis CNC Router Carving Machine



Tool Sensor



JMC stepper driver and motor



NC-studio Control system



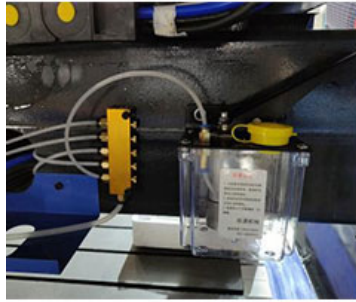
Air-break switch



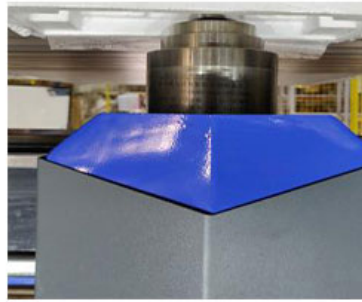
Emergency stop switch



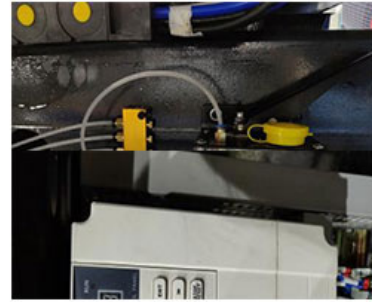
Accessories



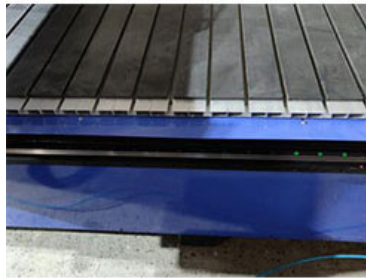
Manual lubrication



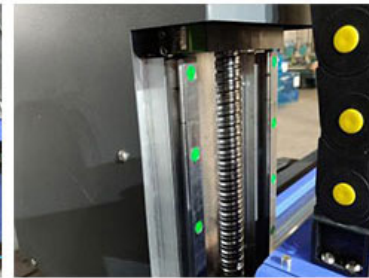
water cooled spindle



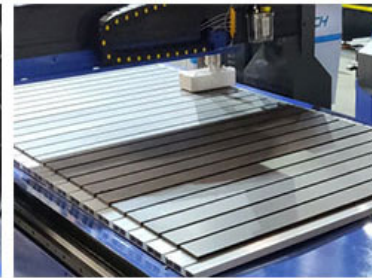
BEST Inverter



Jueli Right oblique helical rack



Taiwan Ball screw



T-slot table with pvc

## Application

The advertising industry

3 Axis CNC router Carving Machine can engrave and cut all kinds of signage, trademark, nameplates, badge, decorative gift, embossed medal, certificate, souvenir, photo frame, furniture decoration.

Small-scale woodworking industry

Cnc router can be used for solid wood furniture, mahogany furniture, MDF paint door, solid wood door, composite door, cupboard door and window, bedside cabinet, folding screen etc.

Artwork industry

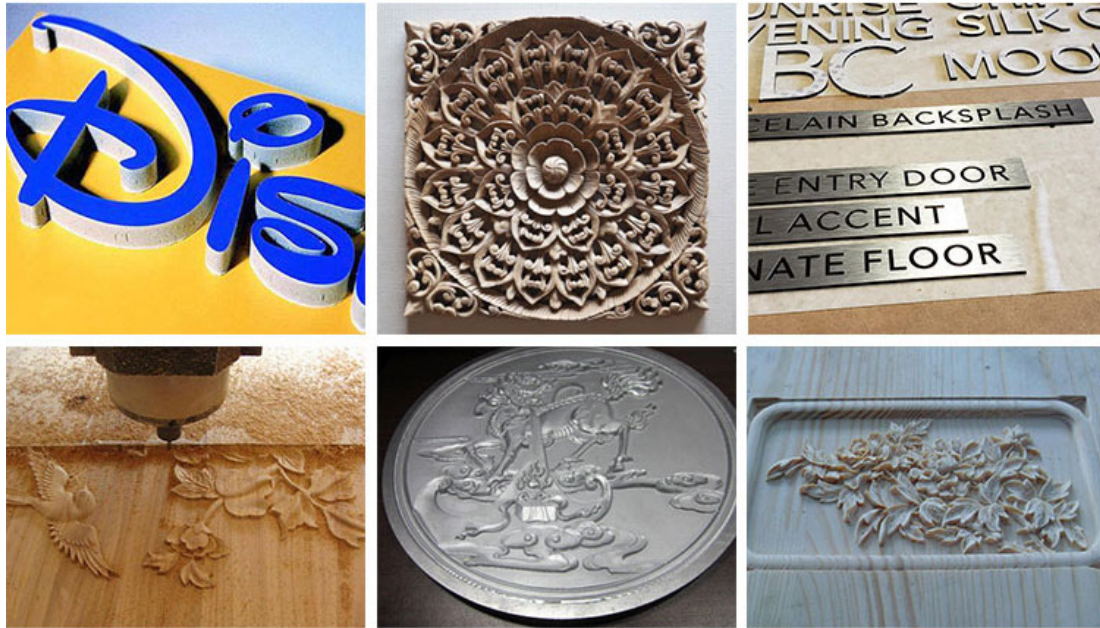
Cnc router can process wooden craft, mural art of wood, artwork, embossed, jewelry, cosmetics package, musical instrument.

Soft metal processing:

Cnc router can process aluminum front panel, pop can, aluminum honeycomb panel, train car and aircraft interior decoration, bronze medal, copper mold.

Electronics industry:

Cnc router can engrave electronic component, integrated circuit, electronic plastic case, electronic product model, circuit board, electronic Light box, computer and mobile phone keyboard, engraving a variety of electronic products.



## **SUNNA INTL Service:**

The guarantee period of quality shall be 12 months counting from the date on which the commodity arrives at the port of destination.

We are responsible for offering the fittings free of charge during the guarantee period, while it is preferred you send the damaged fittings to us by courier with your charge for our testing, after confirming damage, we will send back the alternative fittings to you. After the guarantee of quality period, the parts required repairing or change, if any, shall be paid.

When you meet some complicated problem and online-support can not solve it, we can offer Door-Visiting Service. If our engineer to assemble or/and maintain or/and adjust the machine is/are required, we shall assist to deal with the visa formality and prepaid traveling expenses and accommodation to us during the business trip and the service period before their dispatch. And you can arrange for the translating person for the service engineer during their service period. Or you can send your engineer to China. We will offer long-term technical training to him for free.

## **Training, Commissioning & Start up of SUNNA CNC**

### **Router**

We will supply with the machine Operation Manual and Training CD in English version for Installing and operation, including introduction for the composing of equipment, working principle equipment, common knowledge of computer, controlling principle of electronic devices, daily maintenance measures of equipment. Personal demonstration for

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installation, adjusting and operation of equipment, and the computer. Common malfunction eliminating measures, etc.

We will supply Instruction for simple troubleshooting of the machine when dispatching, which can help you dealing with the common problems happened unluckily. Also, one set of "Instruction Book", "Operation Manual" and "Training Video Disk" for machine/software will be sent to you along with the machine, which could be easily understood and friendly handled by you and your customers.

**Q1: What are your payment terms? Delivery and MOQ?**

A: Payment terms: We accept T/T, Western Union, Paypal, Alibaba Trade Assurance, etc. 30%~50% deposit, the balance is before shipment from our factory.

Delivery time: 7~10 days for ordinary cnc router, 15~30 days for special-shaped cnc router.

Delivery terms: EXW, FCA, FOB, CFR, CIF, DDU, etc.

MOQ: 1 set

**Q2: What is your warranty?**

A: We provide a 36-month warranty for the whole machine and a 12-month warranty for the core components.

**Q3: If I don't know how to use the machine, can you teach me?**

A: 1) A USB flash drive is included with the machine, including the machine manual and operation video. if you have other question:

- 2) Online technical support (Email, Skype, WeChat, telephone, etc.)
- 3) Set up the remote control software for you
- 4) Demo video to follow