

RAFIDAIN AXIS.CO

INDUSTRIAL MACHINERY | PRODUCTION LINES | CNC SOLUTIONS

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CONTRACTING, GENERAL TRADING, AND
COMMERCIAL AGENCIES LLC



TRUST
& RELIABILITY



QUALITY
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Quotation

Servo Motor CNC Router Machine

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CNC ROUTER

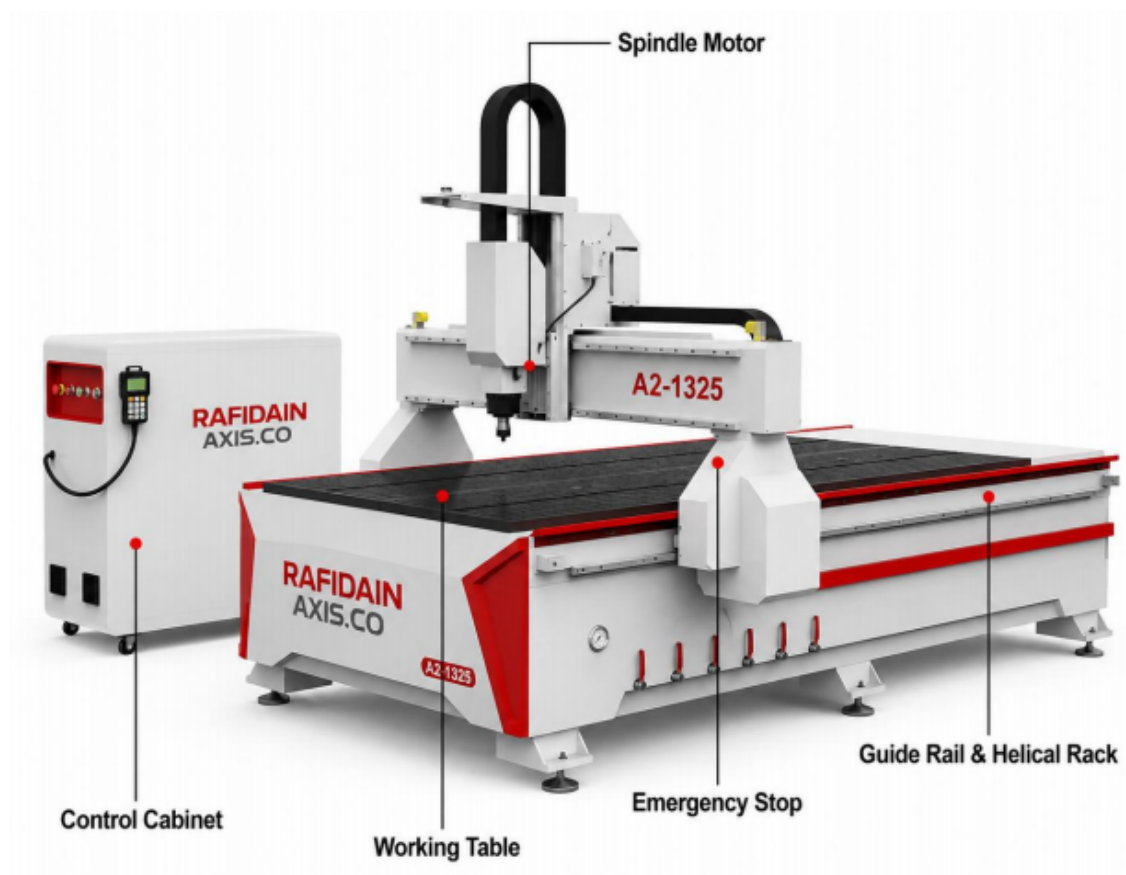
PRECISION • POWER • PERFORMANCE



● KEY POINTS QUICK LOOK

A2-High Speed Servo Motor CNC Router

- 6KW Air-cooled spindle
- 7.5KW inverter
- 750W servo motor and driver
- Japan Shimpo planetary reducer
- RichAuto DSP B11 control system
- T-slot working table with PVC protection



● QUOTATION

- **Delivery Date:** 15 working days
- **Payment Terms:** T/T in advance, 50% deposit (at least 30%), the balance should be paid before shipping
- **Package:** Export standard Free-fumigation plywood wooden box

● Scope Of Application

- **series of machines** are equipped with AC servo motors and Shimpo planetary reducer for faster and higher precision. Suitable for processing wood, acrylic, MDF and other non-metallic materials.
- **Furniture:** wooden door, windows, tables and chairs, cabinets and panels, 3D plate, MDF, computer desk,
- **Advertising:** billboard, logo, sign, acrylic characters cutting.



Product Name	Series High Speed Servo Motor CNC Router			
Model	AX-1325	AX-1530	AX-2030	AX-2040
X, Y Working size	1300*2500mm	1500*3000mm	2000*3000mm	2000*4000mm
Z feed Height	200MM			
Table Surface	Vacuum working table with 4.5kw vacuum pump			
X, Y Structure	Rack and Pinion Drive, PMI 30 Linear Square Guide Rail			
Z Structure	PMI30 Linear Square Guide Rail and Ball Screw			
Max. Rapid Travel Rate	33000mm/min			
Max. Working Speed	25000mm/min			
Spindle Power	6.0kw HSD italy spindle air coling			
Spindle Speed	0-24000RPM – 18,000 rpm			
Collet	ER32 (Available size range 3.175-20mm)			
Inverter	7,5 KW delta			
Drive Motors	Yaskawa japan 1,3 kw servo drive			
Reducer	Japan Shimpo planetary reducer			
Working Voltage	AC380V/50/60Hz			
Command Language	G code			
Control System	Rich auto dsp b51			
Tool Sensor	With			
X,Y,Z Repositioning Accuracy	±0.01mm			
X,Y,Z Positioning Accuracy	<0.01mm			
Software	Artcam with post processor			
Running Temperature	0 degree - 45 degree			
Relative Humidity	30% - 75%			
Total Power	9 KW			
Optional Parts	Dust collector			
Warranty	Two years			

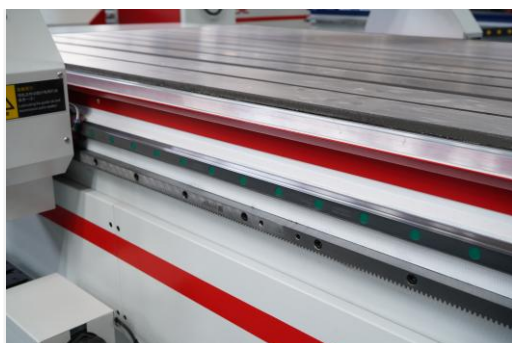


01 Spindle 6KW

- Faster speed 0-18000 rpm/min
- High precision with stable performance
- Big power air-cooled spindle with ER32 collet

02 7.5KW Inverter

- Big power 7.5KW
- High frequency inverter
- With high stability, high precision



03 Guide Rail & Helical Rack

- Side-mounted 25mm square guide rails
- Helical rack with stable transmission
- Flange sliders, strong bearing capacity

04 AC Servo Motor With Reducer

- Z-axis motor with brake
- High speed 750W servo motor
- Japan Shimpo planetary reducer



05 RichAuto DSP B11

- With U-Disk transfer file
- Easy to operate with DSP handle
- Breakpoint continue working function

06 AC Servo Driver

- High stability AC servo motor
- Rated power 750W with stable performance
- Advanced motor control dedicated DSP chip





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Heavy Machine Bed

- Anti rust painting process
- Heavy duty large steel tube full welding
- More scientific and stable structure design

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Z-axis Drive Mode

- Z-axis motor with brake
- Coupling structure without belt
- Strong load capacity and faster running speed



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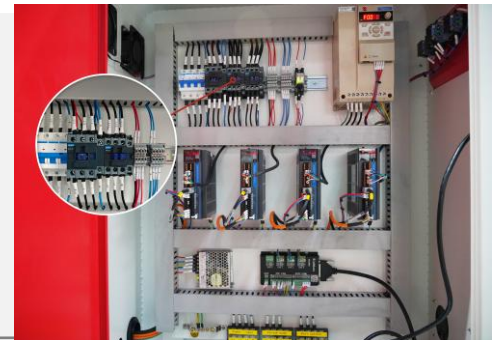
Signal Cable

- High flexible shielded cable
- Strong anti-interference
- Fire protection, high safety level

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Independent Control Cabinet

- Wire numbers of all terminals
- Independent ground terminal
- Scientific layout of internal structure



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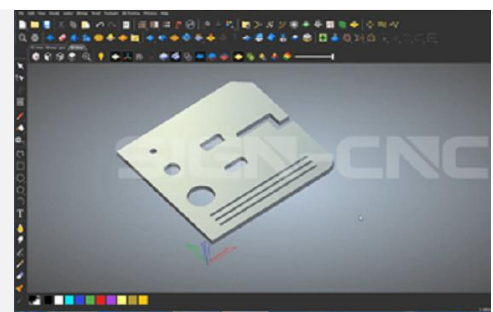
Machine Inspection

- X,Y,Z Repositioning Accuracy $\pm 0.05\text{mm}$
- X,Y,Z Positioning Accuracy 0.05mm
- At least 3 full tests before shipment

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Technical Support

- 2-year warranty of the whole machine
- Software and Post-Processing
- User Manual and Online video training



● Standard Machine Parts

T-slot working table



Adjusting feet



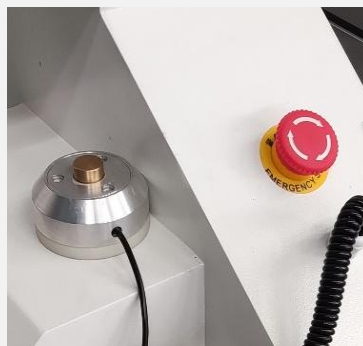
Oil lubrication system



Omron limit switch



Tool sensor & Emergency

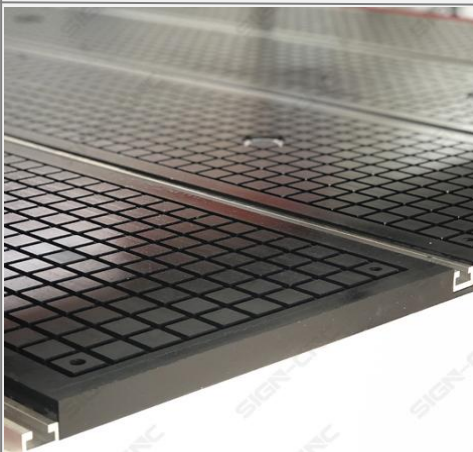


Tool box

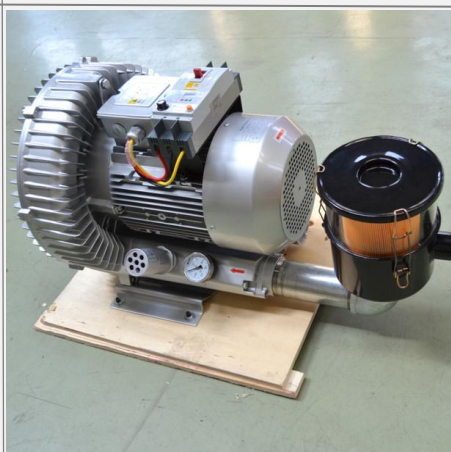


● Optional Parts

Vacuum table with T-slot



Vacuum pump 5.5KW-380V



Dust collector 3KW-380V



- Vacuum pump comes with Pressure valves, Filters and Earth leakage protectors
- Standard air-cooled, optional water-cooled with same price.
- Vacuum adsorption quickly locates the workpiece, saves a lot of clamping time, and improves work efficiency and precision.

- Dust collector comes with Stand, Brush and Hose
- Dust collector is to collect dust and debris generated during work to reduce air pollution.

Configuration list	A2 Series High Speed Servo Motor CNC Router	
Name	Features and use	Quantity
Machine bed	Heavy duty large steel tube full welding	1 set
Gantry	Industry heavy duty large steel tube welding	1 set
Column	Whole Iron casting	1 set
Spindle	6KW Air-cooled spindle	1 pcs
Inverter	7.5KW inverter	1 pcs
Motor and driver	750W servo motor and driver	4 sets
Reducer	X, Y motor with Japan Shimpo planetary reducer	3 pcs
Control system	RichAuto DSP B51 control system operate the machine	1 set
Control cabinet	Independent industrial control cabinet with electrical components	1 set
Data line drag chain	High flexibility and fully enclosed	1 set
Guide rails	High precision 25mm square guide rails	1 set
Rack gear	Helical rack and gear	1 set
T-slot working table	Aluminum profile T-slot table with PVC protection	1 set
Omron limit switch	Omron famous brand with higher precision and more durable	1 set
Oil lubrication system	Lubrication the rails and rack gear	1 set
Tool sensor	Adjust the distance from the tool to the materials	1 pcs
Emergency button	One on control cabinet and other two on Y axis motor	3 pcs
Tool box	Spindle wrench used for change and maintain the cutter	2 pcs
	Dust brush mounted on the spindle for connection to dust collector	1 pcs
	ER32 Collets fixtured for confining milling cutters	4 pcs
	Clamping device for fixing material when engraving	6 pcs
	Leg supports used for adjusting machine levelness and height	6 pcs
	L-type inner hexagon spanner of screwing tools	1 set
	Common cutters used for testing cutting, engraving and hollowing	10 pcs
	U disk with software Artcam post-processing and machine manual	1 set
	Connecting cables (Data Cable, Power Cable etc)	1 set
Package	Export standard Free-fumigation plywood wooden box	1 pcs

● Dimension Detail Drawing



Wooden box outer packaging



Model	A2-1325	A2-1530	A2-2030	A2-2040
Machine Size (L*W*H)	3050*2100*1850mm	3550*2300*1850mm	3550*2800*1850mm	4550*2800*1850mm
Package Size (L*W*H)	3200*2100*1730mm	3600*2280*1730mm	3700*2280*1650mm	4700*2280*1650mm
G.W (kg)	1100kg	1300kg	1500kg	1700kg

(The above is for reference only, the size and weight will change according to different configurations)

● Machine Photos



Furniture making



Cabinet making



Door making



Furniture decoration



Crafts making



Musical instrument making



PVC decoration making



Advertisement making



Sign making

