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4 AXIS CNC Router with ATC (Spindle Rotate 180 degree/±90 degree)



Features

1. The spindle can rotate 180 degree(± 90 degree), can make kinds of curved surface designed by Software, very suitable for siding milling, drilling, lock slot.
2. With rotary auto tool changing system, changing tools can be finished within 2 seconds, much more efficient.
3. We use top quality components for the machines, like HSD spindle, SYNTEC EZ-4M control system, Delta Inverter, YASKAWA servo motors, and separate control box, HIWIN linear and so on, to keep the machine in best condition even after many years working.

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4. With hard steel structure, fit for hard wood working, like cutting and engraving on Rosewood of furniture, indoor decoration. And with the Vacuum table and dust collector, the machine is qualified for mass-producing of furniture.

5.OEM service is available.

Applications

Field: making furniture (such as doors, windows, kitchen cabinet), acrylic stand, decoration board, signs, musical instruments and mold, etc.

Material: wood , Plywood,MDF,PVC, acrylic, ABS , foam, aluminum , brass, etc.

Technical parameter

Model	VCT-SR1530HD-ATC
Dimension	4500 x5000mm/14.8'x16.4'
X,Y,Z Working Area	1500x3000x400mm*±90 degree/ (5'x10x1.3')
Spindle Power	9.0KW Italy HSD ATC Spindle
Tool Change Method	Auto Tool Changer 8/10 pcs
Inverter	11KW Delta VFD-B Inverter
Driving Motors	XYZ 850W Yaskawa Motors. XY axis use Taiwan reducer compatible with servo motor
Positioning Accuracy	±0.03/300mm
Table Surface	Vacuum and T-slot Combined (Option: T-slot Table)
Body Frame	Big Steel Tube Structure (8MM thickness wall)
X, Y Structure	Rack and Pinion Drive, Hiwin Rail Linear Bearings.
Z Structure	Original Taiwan Hiwin Rail Linear Bearings and TBI Ball Screw
Max. Power Consumption	(Without Spindle) 4.5Kw
Max. Rapid Travel Rate	40000mm/min
Max. Working Speed	30000mm/min
Working Voltage	AC380V/50/60Hz,3PH
Command Language	G Code
Operating System	Syntec Control System(Option: Siemens controller)
Computer Interface	Ethernet
Flash Memory	512M
Collet	ER32
X,Y Resolution	<0.03mm
Software Compatibility	Type3/UcanameV9 software (Option: Artcam software)
Weight	N.W: 3000KG / G.W: 3500KG
Packing Size	2 plywooden case: 4200*2200*1800MM(16.7CBM) 1000*1000*2000MM(2CBM)



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Machine Details		
Seq.	Picture	Detail Instruction
1		Heavy steel tubes welded machine body are very stable and durable, can ensure your high precision processing and prolong the service life.
2		T-Slot embedded in the PVC vacuum table ensures a better absorption performance. Fully zoned vacuum table allows the operator to easily switch from full sheet processing to smaller part processing. Zones can be turned off easily with the switches on the front of the machine. Air cooling vacuum pump offers enough power to hold the material tightly on the vacuum table.
3		Use Italy Original HSD 9KW (12HP) ATC Spindle ES929 with RPM24000 rotating speed, ensure high accuracy of working performance. Compatible with HSK F63 tool holder 8 pieces, can change the tools within 2 seconds.
4		Taiwan Syntec 6MB Control System: can do any operation on the user-friendly control panel easily . Wireless hand wheel can realize flexible operation and accurate positioning.
5		Adopted Japanese Yaskawa servo motor , powerful and stable driving system will ensure the high speed and accuracy working.
6		Taiwan Apex reducer can improve the output torque of the motors, and ensure the processing accuracy and lower the noise.



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7		<p>Hiwin Linear and TBI Ball Screw: ensure the machine's high precision and make the machine's more stabilization. Helical rack and pinion is faster than ball screw and more accurate than the standard rack with longer working time.</p>
8		<p>Taiwan 11KW Delta inverter and Brake Resistor which can stabilize the spindle within 1 second, better performance in tool changing.</p>
9		<p>Carrousel tool magazine with 8 forks: The tools can be changed Automatically and save lots of time.</p>
10		<p>24V Emergency stops on both Y axis and two on control cabinet, can realize emergent shutdown during unexpected accidents to avoid harm to worker.</p>
11		<p>Top-performance Schneider main switch and electric parts contribute to the long time working of the machine.</p>
12		<p>Copper oil unit and the digital controlled automatic lubrication system, whose oil output can be adjusted to your habit.</p>
13		<p>5.5KW air cooling Vacuum pump and 7.5Kw two bags dust collector will provide constantly and enough suction to fix the object and keep the working environment clean.</p>



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14.		<p>Design software: the professional design software (Type 3, UcamV10, Artcam,etc.) is special for making 2D/3D drawing, saved it as G code which can be recognized by CNC router.</p>
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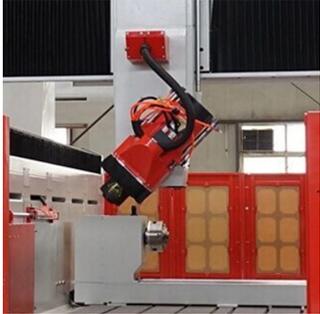
Standard Free Parts List

Seq	Item	Photo	Detail
1	Cutting Tools		16pcs cutting tools for processing different materials.
2	Limit switch		2pcs electronic limit switches for free
3	Clamps		Fix the material on the aluminum alloys on the working table;
4	Collect		4pcs collect for different size cutting tools, 4mm, 6mm, 8mm, 12mm.
5	Spanner		4pcs different size spanner for install different size collects.



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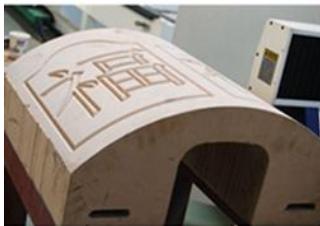
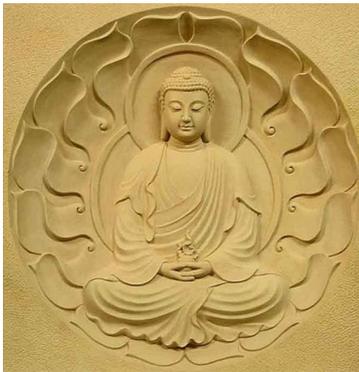
Extra Optional Parts

Seq.	Picture	Detail Instruction
1.	 A photograph of a red rotary device mounted on a CNC machine, used for processing column-shaped materials.	Rotary Device for processing column-shape materials.
2.	 A photograph of a mist sprayer cooling system, which is a yellow and blue unit with various hoses and gauges, used for spraying mist to tools during cutting.	Mist sprayer Cooling System: Use alcohol or other coolants to spray mist to the tools during cutting, which makes the cutting edge smoother and cool down the cutting tools.
3.	 A photograph of a red control cabinet with a white air conditioner unit attached to its side, used for temperature control in tropical areas.	Control cabinet with air conditioner: the air conditional installed on the control cabinet, ensure the machine can be used in tropical area countries to reduce the temperature inside of the cabinet, avoid damage of the electric components.



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Working Samples



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More Photos of Machine



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Packing Photos

