

Technical parameters

Parameter	X, Y, Z Working Area:	2000*4000mm
	Travelling Position Accuracy	±0.05mm
	Repositioning Accuracy:	±0.05mm
	Max. Traveling speed:	60000mm/min
	Max. Working speed:	30000mm/min
	Spindle rotating speed:	24000RPM
	Working Voltage:	AC380V/3ph

Configurations and descriptions

Name		Type	Unit	Brand	Index
Spindle		Air cooled	1	Italy HSD	9.6kw ISO30 auto tool changing
Control system			1	Handle control	
Tool changer		Linear type	8	Tool changers of 8	
Transmission	X. Yaxis	Gear rack		Taiwan 2mol	
	Z axis	Ball screw	1	Taiwan TBI	
	Guide rail	Square rail	6	Taiwan rails	
Drive system		Servo	4	Japan YASKAWA 750W, Z axis is with brake	
Reducer			3	Japan Shimpo	
Inverter		China	1	11KW fuling Inverter	
Table surface		Vacuum	1	Vacuum table with T-slot	
Vacuum pump		Air pumps	2	2 pieces of 5.5kw air pumps	
Auto lubrication system			1	Yes	
Oil mist spray			1	Yes	
Tool sensor			1	Yes	
Electric valves for vacuum zones			6	6	
Software			1	Original Ucamc	

Detail photos

High rigidity body structure design with material stress analysis and tempering aging treatment , so that the accuracy of the machine will be not deformed permanently.



Italy HSD 9.6kw ISO30 air cooled spindle..



Vacuum adsorption with T-slot table, porous adsorption, which make the machine with low deformation rate, long service life and better stability.



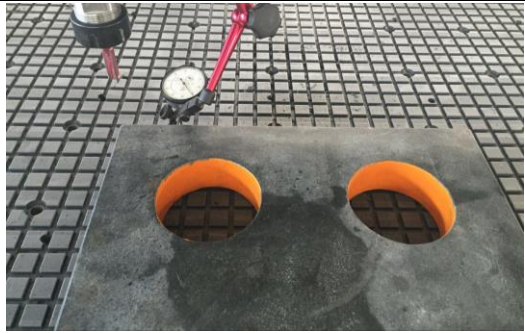
X,Y axis adopt Japan YASKAWA 750w servo motor driver with Japan Shimpo Reducer, make the machine working with high speed, but will not shake when high speed working.



2 pieces of 5.5kw air pumps with filter



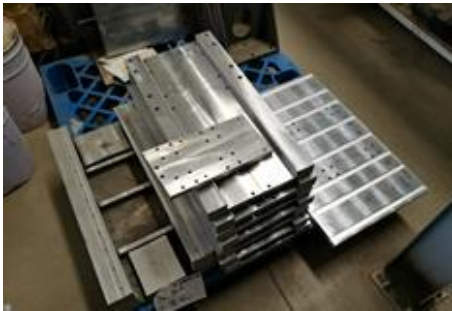
Installation of rails, rack, reducer, screw and other mechanical parts which have been calibrated to ensure that the installation accuracy is within $\pm 0.05\text{mm}$. M series of quality inspection processes up to more than 92 Road.



Manufactured using (TBI) Precision Ball Screws. High Precision, Heavy Duty and Long Service Life.



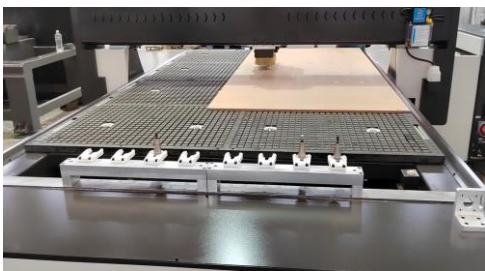
All castings of the machine using high-precision machining center milling and drilling. The assembly accuracy is the leadership of other manufacturer in same industry.



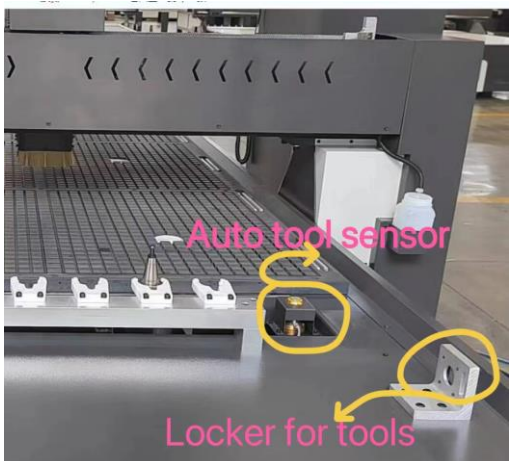
X & Y axis adapt higher precision Taiwan 2mol gear and rack transmission, with high-speed displacement positioning accuracy and low noise. Fast displacement up to 60M / min, steady and accurate, the maximum processing displacement speed can up to 30 M / min.






Linear type tool changer 8 tools (at the end of machine)



Auto tool sensor and locker for tools



Auto lubrication	
Mist spray for aluminium cutting	
XDW handle controller	

Applications:

1. Wood industry: wood furniture making, 3d wood relief carving, wooden craftwork production Speakers, game consoles cabinets, computer tables, sewing machine table etc.
2. Advertising products industry: 3D letters sign making, acrylic and aluminium&copper cutting and engraving.
3. Board processing industry: insulation piece, acrylic board, plastic chemical products, PCB, compact grade laminate, ABS, PP, PE and other cementitious mixtures's milling process.
4. Decoration industry: folding screen, wave plates, advertising boards, sign making and logo's processing.
5. Arts & Crafts industries: Engrave on artificial stones, woods, bamboos, marbles.
6. Processing material: engraving, milling and cutting processing for acrylic, PVC, artificial stones plastics and soft metal sheets and so on.

Samples

