



VALOR5 CNC ROUTER



MW103 Router
4.5Kw HSD Spindle



MD103 Router
9.6Kw HSD Spindle



Automatic Tool Sensor



Controller



Eye Cut Camera



Laser Tracker



Linear Auto Tool Changer



Dual Ball Screw with Driven Nut



Welhong Controller



Servo Tapping Unit



9447277700

FEATURES

Linear Bearings :

25 mm ball linear bearing profile rails High rigidity and top load capacities in all load directions.

Helical rack and pinion:

Helical rack and Pinion with smaller backlash.

Ball Screw :

Lowest possible noise level and best running characteristics. High torque load capacity. With innovation design of dual ballscrew with driven nut has high precision, high speed and high stability.

Z axis Ball Screw Assembly :

The 25mm ball screw is supported by precision dual angular contact ball bearings in a steel housing. The servo motor with brake system link to ballscrew by a R+W couple from Germany.

Hybrid Servo Motor :

Hybrid servo system has both advantages of step and servo motors, which never lose the steps and ensure the accurate location of motor, improving 30% of cutting speed; The vibration of motor is decreased apparently, it keeps stable operation and good cutting quality. Using DSP Controller with gantry axis function, U-disk and network DNC can be used in connecting the machine of MW series.

AC Digital Servo Drives :

Yaskawa Sigma servo amplifiers have all-digital architecture with 32-bit microprocessor logic, high speed ASIC current-loop control, and IGBT power sections. These drives seamlessly integrate position, velocity, and torque loops to provide uncompromised tracking accuracy, smoothness and reliability.

Eye-cut System:

Eye-cut cutting system is the perfect application. advanced machine vision technology in CNC routers. Imaging Source Camera from Germany, Computer MegaPixel lens from Japan, network transmission, which makes us to find the point faster and make the accurate cutting. Fagor and Controller can be used together with the eye-cut system.

Auto Tool Changer(For MD103) :

The MD-ATC series machine is available with an optional 4-6 position linear tool changer. All ATC systems come standard with Automatic Tool Calibration and the tool change routines are built into the controls simplifying integration to your favorite CAM software. An Automatic Tool Change solution will help you reduce job times, improve accuracy, and reduce setup errors.

Dust Tracker:

Dust hood will go up and down according to the cutting depth, to provide the cleanest cutting.

Tool Calibrator:

Automatic tool calibrator block.

TOOL LIST

Item	Specification	Unit	QTY	Applications	Picture
One Flute spiral bits	3.175*12	PC	2	Acrylic /Aluminum/ Brass	
One Flute spiral bits	4*12	PC	2	Acrylic /Aluminum/ Brass	
One Flute spiral bits	4*17	PC	2	Acrylic /Aluminum/ Brass	
One Flute spiral bits	6*12	PC	2	Acrylic /Aluminum/ Brass	
One Flute spiral bits	6*17	PC	2	Acrylic /Aluminum/ Brass	
One Flute spiral bits	6*22	PC	2	Acrylic /Aluminum/ Brass	
One Flute spiral bits	8*25	PC	2	Acrylic /Aluminum/ Brass	
Updown	6*25	PC	1	Wood, MDF	
Compression Cutter	6*60 ⁰	PC	2	refined engrave	
Compression Cutter	6*90 ⁰	PC	2	refined engrave	
Compression Cutter	6*0.2*30 ⁰	PC	2	refined engrave	
Compression Cutter	6*0.2*90 ⁰	PC	3	Engrave/For edge	
Tools for Mini	12*28 ⁰ *1.0	PC	2	Mini and belvel	
Cleaning Bottom Bits	6*22	PC	1	Milling the surface	
3D Carving Bits	6*22*90 ⁰	PC	2	3D ENGRAVE	
3D Carving Bits	6*32*120 ⁰	PC	1	3D ENGRAVE	
Inside circle bits	D2*R5*D12*50 L-2F	PC	2	Circle letters	
Chamfering bits	12*90 ⁰	PC	2	Diamond letters	
SYIC Collector	ER32- 3.175/4/6/8/12	PC	5	Collector for the tools	

APPLICATIONS



DATASHEET

Model	MW103	MD103-ATC	
Table Size(XY)	1.27x 2.54 (m)	1.27 x 2.54 (m)	1.5x3.0 (m)
Travel(XYZ)	2.5x1.2x0.25 (m)	2.5x1.2x0.25 (m)	3x1.5x0.25(m)
X Dual Ballscrew	Yes	Yes	
Column Space	1.67(m)		
Z-Axis Clearance	0.15 (m)		
X, Y Transmission	Helical Rack and Pinion	Ballscrew	
Z Transmission	Ballscrew		
Vaccum Table	4 Zone		
Max. Speed	35m/min	30m/min	
Spindle	Air cooling HSD 4.5KW (Italy)	Air-cooling HSD 9.6KW ATC (Italy)	
Spindle Speed	18000RPM	24000RPM	
Auto Tool Changer	NA	4-6 Tools Linear ATC	
Motor	Hybrid Servo(Yaskawa)	Servo (Yaskawa)	
Controller	DSP Controller		
Collet	ISO30 ER32		
Power	3Phase 380V 6KW	3Phase,380V 15KW	
Dust Collector	Optional	Default	
Eyecut Camera	Optional	Default	
Auto Lubrication	Yes	Yes	
Overall Size	3.3 Lx1.8Wx2.1H (m)	3.78Lx2.0Wx2.1H (m)	
Weight	1.5 Ton	1.8 Ton	2.3 Ton

Contact Us



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