

JDGR100



Adopting the full closed-loop control technology, it is suitable for the processing of metal jewelry, precision mold, medical equipment and other precision products.

- + The machine tool adopts a fixed beam gantry structure, which has strong rigidity, compact structure and small footprint.
- + Capable of "0.1 μ m feed and 1 μ m cutting".
- + The use of rotary table and screw nut cooling technology and the fully enclosed machine tool shield effectively improve the thermal stability.
- + Cooperate with laser tool set and Jingdiao On-machine Measurement System to monitor the status of machine tools, tools and fixtures to ensure the accuracy of the machine tools during long-term processing.

JDGR100

Technical Specification

Items	Standard Value					
Position Accuracy (X/Y/Z)	mm	0.002/0.002/0.002				
Position Accuracy (B/C)	sec	8/8				
Repeatability (X/Y/Z)	mm	0.0018/ 0.0018/ 0.0018				
Repeatability (B/C)	sec	5/5				
Travel (X/Y/Z)	mm	400/200/200				
B/C Rotation Angle	deg	±120/360				
Table Diameter	mm	φ160				
Max. Load	Kg	15				
Spindle Type		JD105S-28-HE32/C	JD105SC-28-HE32	JD130S-28-HE32/A	JD105F-36-ISO20	JD130S-24-BT30
Max. Spindle Speed	rpm	28,000	28,000	28,000	36,000	24,000
Tool Holder Type		HSK-E32	HSK-E32	HSK-E32	ISO20	BT30
Tool Magazine		Servo Tool Magazine 1			Servo Tool Magazine 2	Servo Tool Magazine 3
Tool Magazine Capacity		16			16	14
Max. Rapid Rate (X/Y/Z)	m/min	15				
Max. Swivel Rate (B/C)	rpm	100/300				
Max. Feed Rate (X/Y/Z)	m/min	10				
Max. Rotation Rate (B/C)	rpm	50/300				
Drive System		AC servo				
Voltage		3-Phase, 380V / 50Hz				
Air Pressure	MPa	≥ 0.52				
Machine Weight	Kg	2740				

Standard

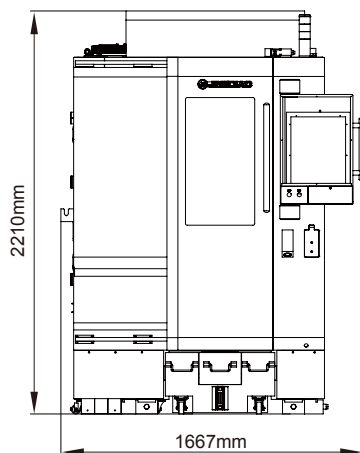
- + JD50 Control System
- + Jingdiao CAM Software SurfMill 8.0
- + Full Scale Closed Loop Control
- + Contact Tool Calibrator
- + Laser Tool Calibrator
- + Spindle & Rotary Table Refrigerator

Optional

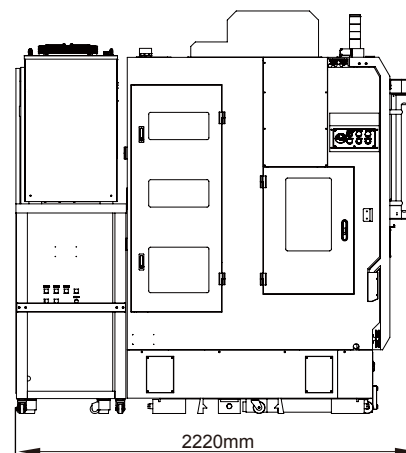
- + Jingdiao On-machine Measurement System
- + Cutting Fluid Cooling System
- + Oil Mist Separation Device
- + Minimum Quantity Lubrication
- + Cutting Fluid Oil-water Separation Device

+ Above parameters have been calibrated With reference to International standard ISO230-2.

Machine Dimension



Front View



Left View