

# GRU100



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 $\mu$ m feed and 1 $\mu$ 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.

# GRU100

## 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
Max. Spindle Speed	rpm	28,000	28,000	28,000	36,000
Tool Holder Type		HSK-E32	HSK-E32	HSK-E32	ISO20
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			

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

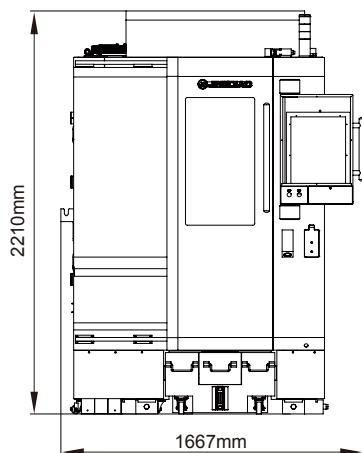
## Standard

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

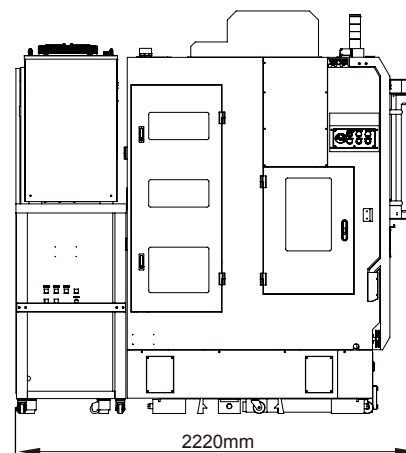
## Optional

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

## Machine Dimension



Front View



Left View