

Internal Grinding Motorized Spindle (DGZM-15024/22-DFWS)

Instruction Manual

Guangzhou Haozhi Industrial Co., Ltd.

Appendix 2, Spindle Technical Parameter Table

Spindle Model DGZM-15024/22-DFWS Motor Type Asynchronous Induction		
Maximum Speed (rpm) 24000 Rated Speed (rpm) 12000		
Maximum Frequency (Hz) 800 Rated Frequency (Hz) 400		
Rated Input Voltage (V) 380 Maximum Current (A) 143.5		
Maximum Torque (Nm) 67.9 Maximum Power (kW) 77.6		
S1 Rated Output Torque (Nm) 17.7 S6 Rated Output Torque (Nm) 26.6		
S1 Rated Output Power (kW) 22 S6 Rated Output Power (kW) 33		
S1 Rated Input Current (A) 41 S6 Rated Input Current (A) 61.5		
Technical Parameters		
No.	Item	Standard Value
01	Spindle Front End Radial Runout (mm)	≤0.001
02	Spindle Front End Axial Runout (mm)	≤0.001
03	Standard Grinding Arbor Radial Runout (at 50mm) (mm)	≤0.005
03	Vibration Velocity (mm/s)	≤0.8
05	Bearing Lubrication Type	Grease Lubrication
06	Air Seal Air Flow (L/min)	90±20 (0.15MPa)
07	Spindle Cooling Method	Water Cooling
08	Cooling Water Flow (L/min)	6-8/0.25MPa
09	Cooling Water Inlet/Outlet Temp. Difference (°C)	≤5
12	Spindle Assembly Diameter (mm)	Φ150h6
13	Stator Temperature Sensor Type	KTY
14	Three-phase Resistance Difference	Three-phase Resistance Difference ≤3%
15	Spindle Ground Resistance (Ω)	≤1.5
16	Motor Winding Insulation Resistance (MΩ)	≥500 (Class H)
17	Motor Winding Withstand Voltage Test (V/M)	1500V/1 min Withstand Voltage Test