



№: LB.TD.TA-EN.BG1000-10ZYDW<V4>

Orthogonal Y-axis Turning and Milling Machine Tool

TECHNICAL AGREEMENT

BG1000-10ZYDW

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1.Product Introduction



Figure 1: Appearance Display (Pictures for Reference Only)

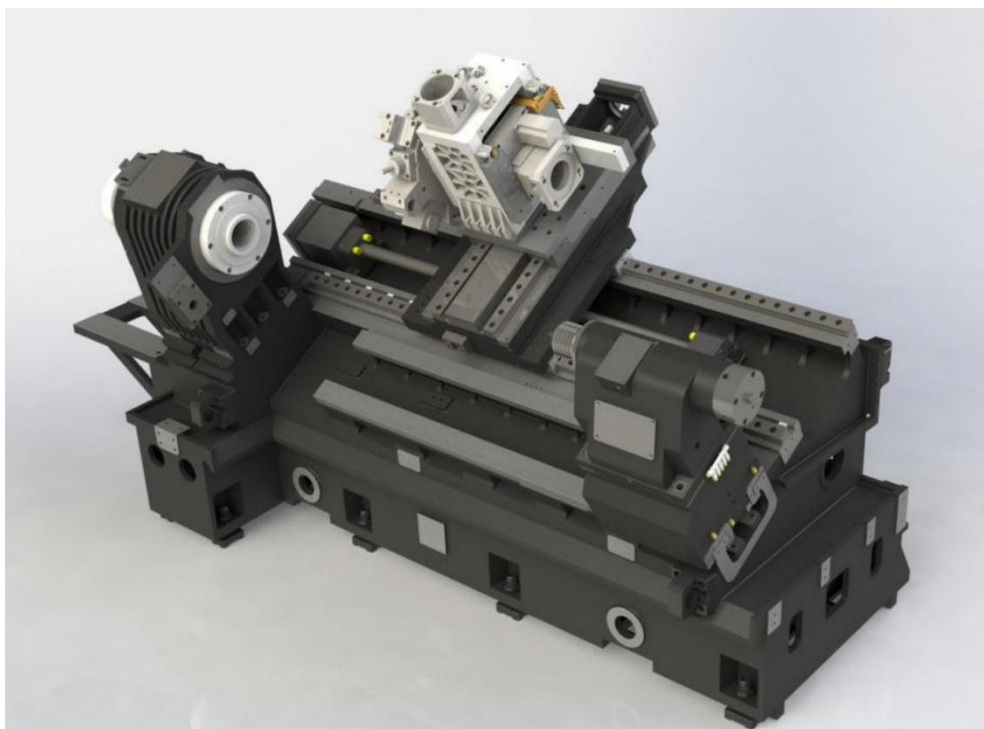


Figure 2: Mechanical Structure Display

2. Working Conditions

- (1) Power supply: AC380V $\pm$ 10%, 50HZ $\pm$ 1HZ three-phase AC.
- (2) Operating temperature: 15°C - 40°C.
- (3) Optimal environmental temperature: 20°C - 25°C.
- (4) Relative humidity: 40 - 75%.

3. Technical Specifications

#	Parameter	Unit	BG1000-10ZYDW Orthogonal Y-axis Turning and Milling Machine Tool
1	Max. Turning Diameter	mm	Φ480
2	Max. Machining Length	mm	1000
3	Max. Swing Diameter over bed	mm	Φ600
4	Max. Swing Diameter Over slide	mm	Φ450
5	Bar Feeding Diameter	mm	<Φ75
6	Spindle Bore	mm	Φ86
7	Max. Spindle Speed	RPM	3000
8	X-axis Travel	mm	260
9	Y-axis Travel	mm	±50
10	Z-axis Travel	mm	1005
11	Tailstock Travel	mm	900
12	Morse Taper	mm	65(5#)
13	Rapid Feedrate	m / min	22
14	Max. Driven Tool Speed	RPM	4000
15	Voltage (3phase)	V	380±10%
16	Frequency	Hz	50
17	Power	kW	29
18	Weight	kg	4800
19	Size (Length × Width × Height)	mm	3950 × 2010 × 2270

#	Configuration Table			
1	CNC		Siemens 828D (With Shop Turn/Mill Function)	
	Spindle Rated Power / Torque of the Servo Motor		15kW / 143Nm	
	X-axis Rated Power / Torque of the Servo Motor		2.2kW / 12Nm	
	Y-axis Rated Power / Torque of the Servo Motor		2.2kW / 12Nm	
	Z-axis Rated Power / Torque of the Servo Motor		3.6kW / 22Nm	
	Driven Tool Rated Power / Torque of the Servo Motor		3.6kW / 22Nm	
2	\	Brand		Type / Spec
	Spindle	☐ LBIE Belt Spindle (OEM by HAOZHI) (Standard) ☐ Taiwan KENTURN Belt Spindle (Optional)		A2-8
3	X-axis	Linear Guide Rail	HIWIN / PMI	45
		Lead Screw	HIWIN / PMI / THK	40
		Bearing	NSK / NACHI	25
	Y-axis	Linear Guide Rail	Supplied by the Turret Supplier	Supplied by the Turret Supplier
		Lead Screw		
		Bearing		
	Z-axis	Linear Guide Rail	HIWIN / PMI	45
		Lead Screw	HIWIN / PMI / THK	40
		Bearing	NSK / NACHI	25
4	Tool Carrier Form	Turret	Brand	Taiwan TCSM
			Driving Type	Servo Motor
			Locking Type	Hydraulic Locking
			Model / Station	☐ BMT55-12 (Standard) ☐ BMT65-12 (Optional) (Z-axis Travel is Shortened by 20mm)
5	Tailstock Form		☐ Hydraulic Tailstock (Standard) ☐ Servo Tailstock (Optional)	
6	Lubrication Form		Oil Lubrication	
7	Hydraulic System		Standard	
8	Fixture		☐ Hydraulic Chuck (10inch) (Standard) ☐ Hydraulic Chuck (12inch) (Optional)	

9	Coolant Pump Power	☐ 5Bar (Standard) ☐ 50Bar (Optional)		
10	Main Electrical Components Brand	Schneider		
11	Electronic Door Lock	Standard		
12	Fixed Tool Holder	Type	Spec	Qty
		Bore Tool Holder	Φ40	3
		Radial Square Tool Holder	25*25	3
		Axial Square Tool Holder	25*25	1
		☐ Optional	7 Included for Any Type (Extra Available)	
13	Driven Tool Holder	Spec	Qty	
		0°	1pcs	
		90° Unidirection	1pcs	
		☐ Optional		
14	Other Accessories	Item	Qty	
		Chuck Draw Tube	1pcs	
		Foot Switch	1set	
		Water Tank	1set	
		Installation Tool	1set	
		Machine Foot	8pcs	
15	System Operation Manual	E-manual		
16	Machine Tool Instruction Manual	E-manual		
17	Optional	☐ Hydraulic Steady Rest		
		☐ Steady Rest Tool Following Function		
		☐ Chip Conveyor		
		☐ Renishaw Tool Setter		
		☐ Automatic Catcher		
		☐ Oil Mist Collector		
		☐ Automatic Door		

4.Safety Precautions

(1) Always follow the manufacturer's guidelines and instructions for safe operation.

(2) Ensure proper training and qualification of personnel operating the machine tool.

(3) Use appropriate personal protective equipment (PPE) as required.

(4) Regularly inspect and maintain the machine tool to ensure its optimal functioning.

(5) Keep the work area clean and organized to prevent accidents or injuries.

This technical description provides an overview of the key features, capabilities, specifications, and safety precautions associated with the Machine Tool. It serves as a useful reference for understanding the machine's functionality and characteristics in technical documentation.