№：LB.PD.TA-EN.BG1000-10ZYDW<V2>

Orthogonal Y-axis Turning and Milling Machine Tool

TECHNICAL AGREEMENT

BG1000 - 10ZYDW

2024·7·5

Contents

Figure 1: Appearance Display (Pictures for Reference Only)

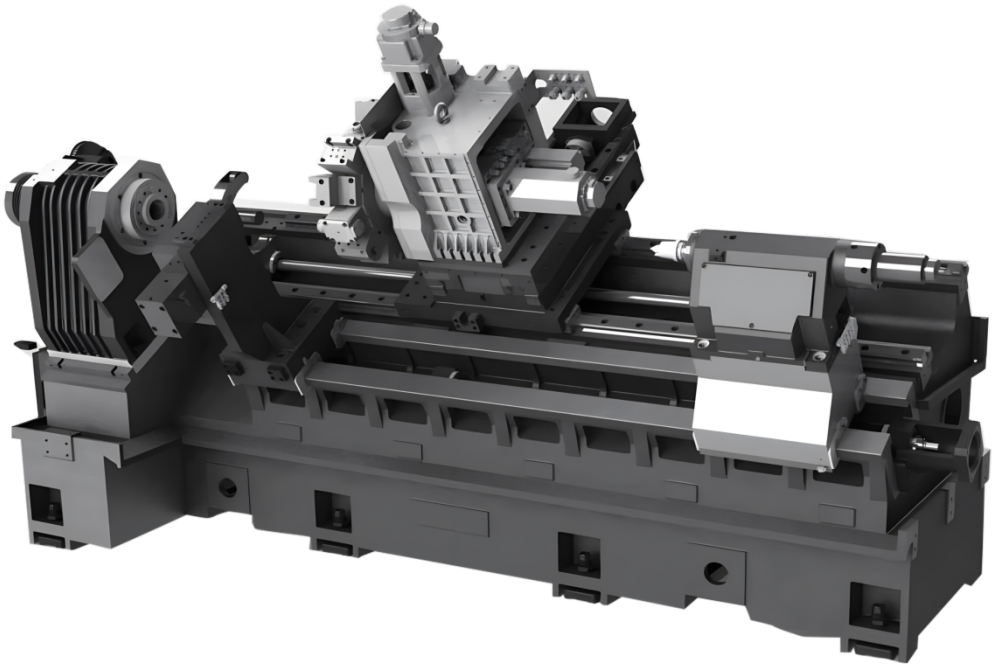

Figure 2: Mechanical Structure Display

2.Working Conditions

(1) Power supply: AC380V ± 10%, 50HZ ± 1HZ three-phase AC.

(2) Operating temperature: 5℃ - 40℃.

(3) Optimal environmental temperature: 15℃ - 25℃.

(4) Relative humidity: 40 - 75%.

3.Precision Standard

Precision	GB Standard	Company Standard
The Level of Machining Accuracy	IT6	IT6
Machining Roundness Accuracy	0.003mm / Φ70mm	0.003mm / Φ70mm
Machining Straightness Accuracy	0.010mm / 150mm	0.010mm / 150mm
Machining Flatness Accuracy	0.008mm / Φ100mm	0.006mm / Φ100mm
Machining Roughness Accuracy	Ra1.6μm	Ra0.4μm Parameter Reference: Material: Al; Spindle Speed: 2200RPM; Feed Rate: 0.06mm/rev; Tool: PCD R0.2
Spindle End Face Runout	0.01mm	0.003mm
Spindle Radial Runout	0.008mm	0.003mm
Axial Positioning Accuracy	X-axis0.016mm	X-axis0.008mm
	Y-axis0.016mm	Y-axis0.008mm
	Z-axis0.020mm	Z-axis0.008mm
Axial Repeatability Positioning Accuracy	X-axis0.007mm	X-axis0.004mm
	Y-axis0.007mm	Y-axis0.004mm
	Z-axis0.008mm	Z-axis0.004mm
Turret Indexing Repeatability Positioning Accuracy	Y-Z Direction0.01mm	Y-Z Direction0.006mm
	Z-X Direction0.01mm	Z-X Direction0.006mm

4. Техническое описание

#	Параметр	Ед.	BG1000-10ZYDW Orthogonal Y-axis Turning and Milling Machine Tool
1	Макс. обр. диаметр	мм	Ф550
2	Макс. обр. длина	мм	1000
3	Макс. диаметр качания	мм	Ф700
4	Проходное отверстие	мм	Ф75
5	Отверстие шпинделя	мм	Ф88
6	Скорость шпинделя	RPM	3000
7	Перемещение по X	мм	260
8	Перемещение по Y	мм	±50
9	Перемещение по Z	мм	1005
10	Перемешение задн. бабки	мм	900
11	Morse Taper	мм	65
12	Скорость подачи	m / min	22
13	Макс кол-во оборотов приводного инструмента	RPM	4000
14	Напряжение (3фазы)	В	380±10%
15	Частота	Гц	50
16	Мощность	кВт	27
17	Вес	кг	4800
18	Габариты (ДхВхШ)	мм	5100 × 2050 × 2150

#	Configuration Table		
1	CNC		□ FANUC 0I-TF PLUS(3)
	Spindle Rated Power / Torque of the Servo Motor		11kW / 105Nm
	X-axis Rated Power / Torque of the Servo Motor		1.8kW / 11Nm
	Y-axis Rated Power / Torque of the Servo Motor		1.8kW / 11Nm
	Z-axis Rated Power / Torque of the Servo Motor		1.8kW / 11Nm
	Driven Tool Rated Power / Torque of the Servo Motor		2.7kW / 12Nm
2	\	Brand	Type / Spec
	Spindle	□ Taiwan KENTURN Belt Spindle (Standard) □ Guangzhou HAOZHI Motor Spindle (Optional)	A2-8
3	X-axis	Linear Guide Rail	HIWIN / PMI / Rexroth	45
		Lead Screw	HIWIN / PMI	40
		Bearing	NSK / NACHI	25
	Y-axis	Linear Guide Rail	TCSM	50 Hard Guide
		Lead Screw	HIWIN / PMI	40
		Bearing	NSK / NACHI	25
	Z-axis	Linear Guide Rail	HIWIN / PMI / Rexroth	45
		Lead Screw	HIWIN / PMI	40
		Bearing	NSK / NACHI	25
4	Tool Carrier Form	Turret	Brand	Taiwan TCSM
			Driving Type	Servo Motor
			Locking Type	Hydraulic Locking
			Model / Station	BMT65-12
5	Tailstock Form		Hydraulic Tailstock	
6	Lubrication Form		Oil Lubrication	

7	Hydraulic System	Standard		
8	Fixture	□ Taiwan JIAHE Hydraulic Chuck (10inch) (Standard) □ Taiwan JIAHE Hydraulic Chuck (12inch) (Optional)		
9	Coolant Pump Power	□ 5Bar (Standard) □ 50Bar (Optional)		
10	Main Electrical Components Brand	Schneider		
11	Fixed Tool Holder	Type	Spec	Qty
		Boring Tool Holder		7 Included for Any Type (Extra Available)
		Outer Diameter Turning Tool		
		End Face Turning Tool Holder		
		□ Optional		
12	Driven Tool Holder	Spec	Qty	
		0°	1pcs	
		90° Unidirection	1pcs	
		□ Optional		
13	Other Accessories	Item	Qty	
		Chuck Draw Tube	1pcs	
		Foot Switch	1set	
		Water Tank	1set	
		Installation Tool	1set	
		Machine Foot	8pcs	
14	System Operation Manual	E-manual		
15	Machine Tool Instruction Manual	E-manual		
16	Optional	□ Servo Tailstock		
		□ Hydraulic Steady Rest		
		□ Chip Conveyor		
		□ Renishaw Tool Setter		

		☐ Automatic Catcher
		☐ Oil Mist Collector

5.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.