№：LB.TD.TA-EN.W7-8/6CYD<V4>

Double Spindle Interpolated Y-axis Turning and Milling Machine Tool

TECHNICAL AGREEMENT

W7-8/6CYD

2024·12·30

Contents

1.Product Introduction

Figure 1: Appearance Display (Pictures for Reference Only)

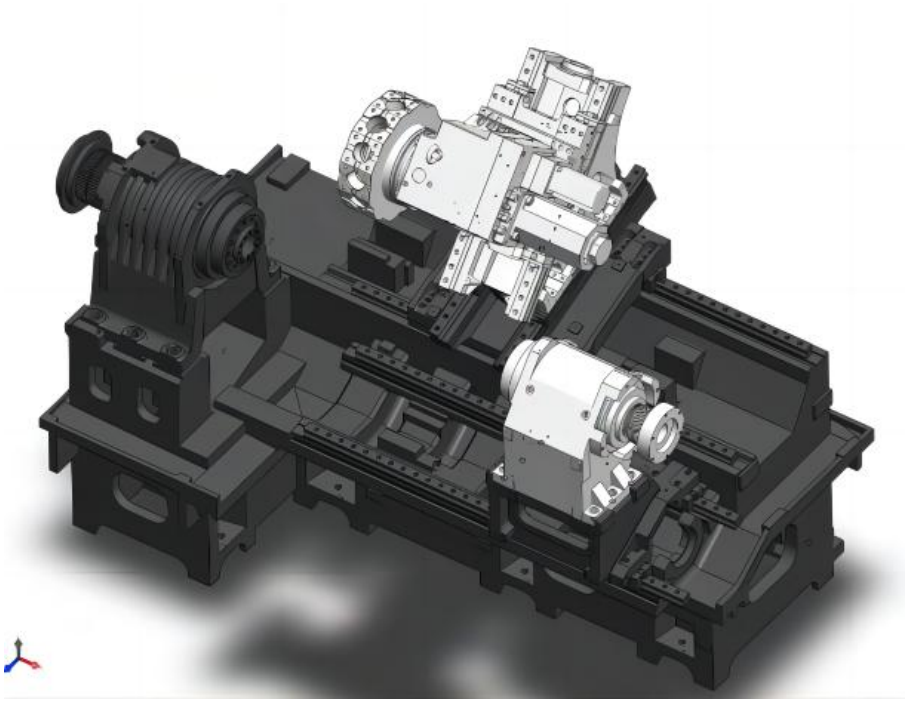

Figure 2: Mechanical Structure Display

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.Technical Specifications

#	Parameter	Unit	W7-8/6CYD Double Spindle Interpolated Y-axis Turning and Milling Machine Tool
1	Max. Turning Diameter	mm	Φ300
2	Max. Machining Length	mm	550
3	Max. Swing Diameter	mm	1st Spindle: Φ500; 2nd Spindle: Φ220
4	Bar Feeding Diameter	mm	1st Spindle: <Φ52; 2nd Spindle: <Φ46
5	Spindle Bore	mm	1st Spindle: Φ66; 2nd Spindle: Φ56
6	Max. Spindle Speed	RPM	1st Spindle: 3500; 2nd Spindle: 4000
7	X-axis Travel	mm	220
8	Y-axis Travel	mm	110
9	Z-axis Travel	mm	600
10	B-axis (Tailstock) Travel	mm	610
11	Rapid Feedrate	m / min	22
12	Max. Driven Tool Speed	RPM	4000
13	Voltage (3phase)	V	380±10%
14	Electric Frequency	Hz	50
15	Power	kW	35
16	Weight	kg	4500
17	Size (Length × Width × Height)	mm	3250 × 1700 × 1900 (Excluding Chip Conveyor)
#	Configuration		
1	CNC Control System		☐ FANUC 0I-TF PLUS(3)
	Main-spindle Rated Power / Torque of the Servo Motor		☐ 11kW/105Nm(Belt Spindle)(Standard) ☐ 15kW/143Nm(Belt Spindle)(Optional) ☐ 15kW/95Nm(Motor Spindle)(Optional)
	Sub-spindle Rated Power / Torque of the Servo Motor		11kW / 52Nm (HAOZHI Motor Spindle)
	X-axis Rated Power / Torque of the Servo Motor		1.8kW / 11Nm
	Y1-axis Rated Power / Torque of the Servo Motor		1.8kW / 11Nm

	Z-axis Rated Power / Torque of the Servo Motor		1.8kW / 11Nm	
	B-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**	
	1st Spindle	☐ Taiwan KENTURN Belt Spindle (Standard) ☐ LBIE Belt Spindle(OEM by HAOZHI) (Optional) ☐ Guangzhou HAOZHI Motor Spindle (Optional)	☐ A2-6 (Standard) ☐ A2-6(65) (Spindle Bore: Φ79mm; Bar Feeding Diameter: <Φ65) (Optional) ☐ A2-8 (Spindle Bore: Φ86mm; Bar Feeding Diameter: <Φ75, Match 10inches Chuck;Recommended to Upgrade the Motor) (Optional)	
	2nd Spindle	Guangzhou HAOZHI Motor Spindle	☐ A2-5 (Standard) ☐ A2-6 (Spindle Bore: Φ66mm; Bar Feeding Diameter: <Φ52; Match 8inches Chuck; Recommended to Upgrade the Motor) (Optional)	
3	X-axis	Linear Guide Rail	HIWIN / PMI / Rexroth	35 Roller Guide
		Lead Screw	HIWIN / PMI/NSK	32
		Bearing	NSK	20TAC
	Y1-axis	Linear Guide Rail	HIWIN / PMI / Rexroth	35 Roller Guide
		Lead Screw	HIWIN / PMI/NSK	32
		Bearing	NSK	20TAC
	Z-axis	Linear Guide Rail	HIWIN / PMI / Rexroth	35 Roller Guide
		Lead Screw	HIWIN / PMI/NSK	32
		Bearing	NSK	20TAC
	B-axis	Linear Guide Rail	HIWIN / PMI / Rexroth	35 Roller Guide
		Lead Screw	HIWIN / PMI/NSK	32
		Bearing	NSK	20TAC
4	Tool Carrier Form	Turret	**Brand**	☐ Taiwan TCSM (Standard)	☐ Taiwan GPM (Optional)
			Driving Type	Servo Motor	Servo Motor
			Locking Type	Hydraulic Locking	Hydraulic Locking
			Model / Station	☐ BMT55-12 (Standard)	BMT-12 (Max. Driven Tool

				☐ BMT45-15 (Optional)	Speed: 6000; Indexing to 24 Stations)
5	Tailstock Form	Sub-spindle			
6	Lubrication Form	Grease Lubrication			
7	Hydraulic System	Standard			
8	Fixture	☐ Taiwan JIAHE Hydraulic Chuck (1st Spindle: 8inch ; 2nd Spindle: 6inch) (Standard) ☐ TGT Collect Chuck (1st Spindle: 52; 2nd Spindle: 46 Push-type) (Optional)			
9	Coolant Pump Power	☐ 5Bar (Standard) ☐ 50Bar (Optional)			
10	Main Electrical Components Brand	Schneider			
11	Chip Conveyor	Included			
12	Electronic Door Lock	Standard			
13	Fixed Tool Holder	**Type**	**Spec**	**Qty**	
		Boring Tool Holder	Φ32	3	
		Outer Diameter Turning Tool	25*25	3	
		End Face Turning Tool Holder	25*25	1	
		☐ Optional	7 Included for Any Type (Extra Available)		
14	Driven Tool Holder	**Spec**	**Qty**		
		0°	1pcs		
		90° Unidirection	\		
		90° Bidirection	1pcs		
		☐ Optional			
15	Other Accessories	**Item**	**Qty**		
		Chuck Draw Tube	2pcs		
		Foot Switch	1set		
		Water Tank	1set		
		Installation Tool	1set		
		Machine Foot	9pcs		

16	System Operation Manual	E-manual
17	Machine Tool Instruction Manual	E-manual
18	Optional	☐ Renishaw Tool Setter
		☐ Automatic Catcher
		☐ Oil Mist Collector
		☐ Automatic Door
		☐ Collision Avoidance System
		☐ Machine IoT Remote Monitoring

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.