



Nº: LB.TD.TA-EN.W7-8/6D<V3>

Dual-spindle Driven Tool Turret Lathe
Without Y-axis

TECHNICAL AGREEMENT

W7-8/6D

2024·12·30



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1.Product Introduction



Figure 1: Appearance Display (Pictures for Reference Only)

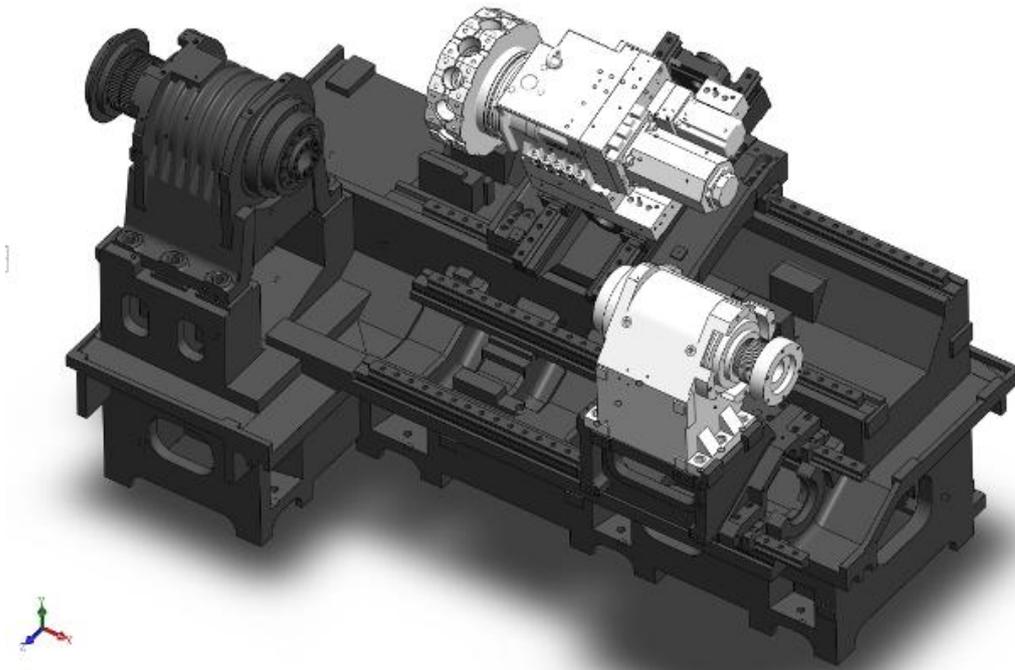


Figure 2: Mechanical Structure Display



2. Working Conditions

- (1) Power supply: AC380V \pm 10%, 50HZ \pm 1HZ three-phase AC.
- (2) Operating temperature: 5°C - 40°C.
- (3) Optimal environmental temperature: 15°C - 25°C.
- (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 / Φ 70mm	0.003mm / Φ 70mm
Machining Straightness Accuracy	0.010mm / 150mm	0.010mm / 150mm
Machining Flatness Accuracy	0.008mm / Φ 100mm	0.006mm / Φ 100mm
Machining Roughness Accuracy	Ra1.6 μ m	Ra0.4 μ m 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
	Z-axis0.020mm	Z-axis0.008mm
Axial Repeatability Positioning Accuracy	X-axis0.007mm	X-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	W7-8/6D Dual-spindle Driven Tool Turret Lathe Without Y-axis
1	Max. Turning Diameter	mm	<input type="checkbox"/> $\Phi 300$ (Standard) <input type="checkbox"/> $\Phi 370$ (Spindle Motor Power Needs to Upgrade, Optional)
2	Max. Machining Length	mm	550
3	Max. Swing Diameter	mm	1st Spindle: $\Phi 500$; 2nd Spindle: $\Phi 220$
4	Bar Feeding Diameter	mm	1st Spindle: $<\Phi 52$; 2nd Spindle: $<\Phi 46$
5	Spindle Bore	mm	1st Spindle: $\Phi 66$; 2nd Spindle: $\Phi 56$
6	Max. Spindle Speed	RPM	1st Spindle: 3500; 2nd Spindle: 4000
7	X-axis Travel	mm	220
8	Z-axis Travel	mm	600
9	B-axis (Tailstock) Travel	mm	610
10	Rapid Feedrate	m / min	22
11	Max. Driven Tool Speed	RPM	4000
12	Voltage (3phase)	V	$380 \pm 10\%$
13	Electric Frequency	Hz	50
14	Power	kW	33
15	Weight	kg	3800
16	Size (Length \times Width \times Height)	mm	$3250 \times 1700 \times 1900$ (Excluding Chip Conveyor)
#	Configuration		
1	CNC Control System	<input type="checkbox"/> FANUC 0I-TF PLUS(3)	
	Main-spindle Rated Power / Torque of the Servo Motor	<input type="checkbox"/> 11kW / 105Nm (Belt Spindle) (Standard) <input type="checkbox"/> 15kW / 143Nm (Belt Spindle) (Optional) <input type="checkbox"/> 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	1.8kW / 11Nm	

		Motor		
		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	<input type="checkbox"/> Taiwan KENTURN Belt Spindle (Standard) <input type="checkbox"/> LBIE Belt Spindle(OEM by HAOZHI) (Optional) <input type="checkbox"/> Guangzhou HAOZHI Motor Spindle (Optional)		<input type="checkbox"/> A2-6 (Standard) <input type="checkbox"/> A2-6(65) (Spindle Bore: Φ 79mm; Bar Feeding Diameter: $<\Phi$ 65) (Optional) <input type="checkbox"/> A2-8 (Spindle Bore: Φ 86mm; Bar Feeding Diameter: $<\Phi$ 75, Match 10inches Chuck;Recommended to Upgrade the Motor) (Optional)
	2nd Spindle	Guangzhou HAOZHI Motor Spindle		<input type="checkbox"/> A2-5 (Standard) <input type="checkbox"/> A2-6 (Spindle Bore: Φ 66mm; Bar Feeding Diameter: $<\Phi$ 52; 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
	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	<input type="checkbox"/> Taiwan TCSM (Standard) <input type="checkbox"/> Taiwan GPM (Optional)
			Driving Type	Servo Motor
			Locking Type	Hydraulic Locking
			Model / Station	<input type="checkbox"/> BMT55-12 (Standard) <input type="checkbox"/> BMT45-15 (Optional)
				<input type="checkbox"/> Taiwan GPM (Optional) Servo Motor Hydraulic Locking BMT-12 (Max. Driven Tool Speed: 6000; Indexing to 24 Stations)

5	Tailstock Form	Sub-spindle		
6	Lubrication Form	Grease Lubrication		
7	Hydraulic System	Standard		
8	Fixture	<input type="checkbox"/> Taiwan JIAHE Hydraulic Chuck (1st Spindle: 8inch; 2nd Spindle: 6inch) (Standard) <input type="checkbox"/> TGT Collect Chuck (1st Spindle: 52; 2nd Spindle: 46 Push-type) (Optional)		
9	Coolant Pump Power	<input type="checkbox"/> 5Bar (Standard) <input type="checkbox"/> 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
		<input type="checkbox"/> Optional	7 Included for Any Type (Extra Available)	
14	Driven Tool Holder	Spec	Qty	
		0°	1pcs	
		90° Unidirection	\	
		90° Bidirection	1pcs	
		<input type="checkbox"/> 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	<input type="checkbox"/> Renishaw Tool Setter
		<input type="checkbox"/> Automatic Catcher
		<input type="checkbox"/> Oil Mist Collector
		<input type="checkbox"/> Automatic Door
		<input type="checkbox"/> Collision Avoidance System
		<input type="checkbox"/> 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.