



№: LB.TD.TA-EN.WS-8/6YD<V4>

Double Spindle Interpolated Y-axis Turning and Milling Machine Tool

TECHNICAL AGREEMENT

WS-8/6YD

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1.Product Introduction



Figure 1: Appearance Display (Pictures for Reference Only)

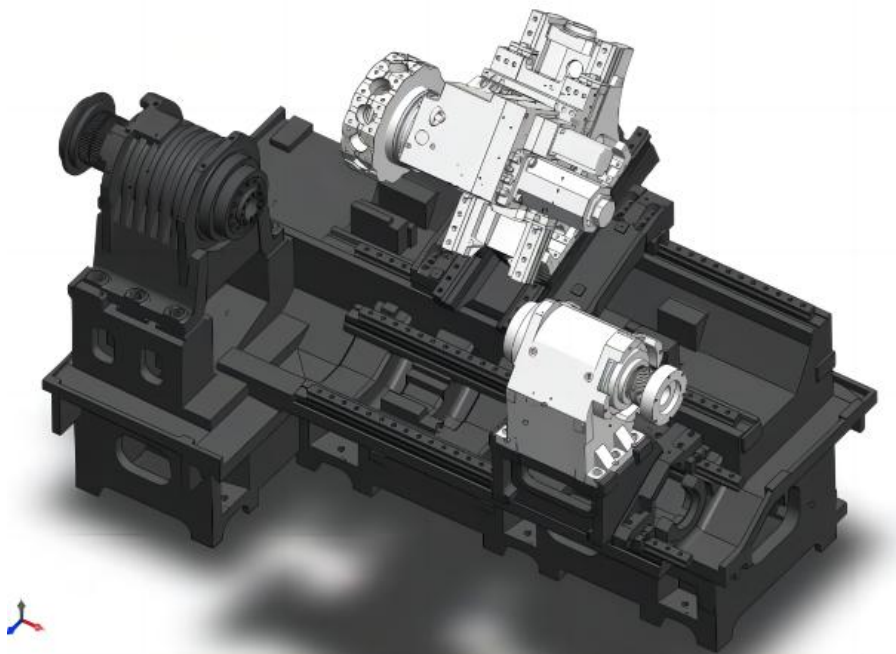


Figure 2: Mechanical Structure Display

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	WS-8/6YD Double Spindle Interpolated Y-axis Turning and Milling Machine Tool
1	Max. Turning Diameter	mm	Φ 300
2	Max. Machining Length	mm	550
3	Max. Swing Diameter Over Bed	mm	1st Spindle: Φ 500; 2nd Spindle: Φ 220
4	Max. Swing Diameter Over Slide	mm	Φ 220
5	Bar Feeding Diameter	mm	1st Spindle: $<\Phi$ 52; 2nd Spindle: $<\Phi$ 46
6	Spindle Bore	mm	1st Spindle: Φ 66; 2nd Spindle: Φ 56
7	Max. Spindle Speed	RPM	1st Spindle: 4000; 2nd Spindle: 4500
8	X-axis Travel	mm	220
9	Y-axis Travel	mm	110
10	Z-axis Travel	mm	600
11	Tailstock Travel	mm	610
12	Rapid Feedrate	m / min	22
13	Max. Driven Tool Speed	RPM	4000
14	Voltage (3phase)	V	380 $\pm$ 10%
15	Electric Frequency	Hz	50
16	Power	kW	35
17	Weight	kg	4500
18	Size (Length $\times$ Width $\times$ Height)	mm	3250 $\times$ 1700 $\times$ 1900 (Excluding Chip Conveyor)

#	Configuration			
1	CNC Control System		SYNTEC 22TB	
	Main-spindle Rated Power / Torque of the Servo Motor		15kW / 98Nm	
	Sub-spindle Rated Power / Torque of the Servo Motor		11kW / 52Nm (Motor Spindle)	
	X-axis Rated Power / Torque of the Servo Motor		2.4kW / 11.5Nm	
	Y1-axis Rated Power / Torque of the Servo Motor		3.1kW / 15Nm	
	Z-axis Rated Power / Torque of the Servo Motor		3.1kW / 15Nm	
	B-axis Rated Power / Torque of the Servo Motor		3.1kW / 15Nm	
	Driven Tool Rated Power / Torque of the Servo Motor		5.5kW / 17.5Nm (Water Coolant Motor)	
2	\	Brand	Type / Spec	
	1st Spindle	Taiwan KENTURN Belt Spindle	A2-6	
	2nd Spindle	Guangzhou HAOZHI Motor Spindle	A2-5	
3	X-axis	Linear Guide Rail	HIWIN	35 Roller Guide
		Lead Screw	PMI	32
		Bearing	NSK	20TAC
	Y1-axis	Linear Guide Rail	HIWIN	35 Roller Guide
		Lead Screw	PMI	32
		Bearing	NSK	20TAC
	Z-axis	Linear Guide Rail	HIWIN	35 Roller Guide
		Lead Screw	PMI	32
		Bearing	NSK	20TAC
	B-axis	Linear Guide Rail	HIWIN	35 Roller Guide
		Lead Screw	PMI	32
		Bearing	NSK	20TAC
4	Tool Carrier	Turret	Brand	POWER WELL
			Driving Type	Servo Motor

	Form		Locking Type	Hydraulic Locking		
			Model / Station	BMT55-12		
5	Tailstock Form		Sub-spindle			
6	Lubrication Form		Grease Lubrication			
7	Hydraulic System		Standard			
8	Fixture		☐ 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	
			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)		
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

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.