

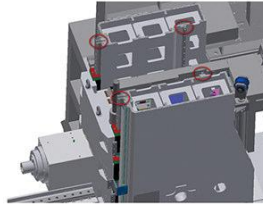


YSBD SERIES

YSBD-130 Horizontal Boring Machining Center Structure Characteristics:

Tool magazine structure

40 and 60 tools guideway type tool magazines, which are driven by a servo tool magazine, improve the overall tool change efficiency.

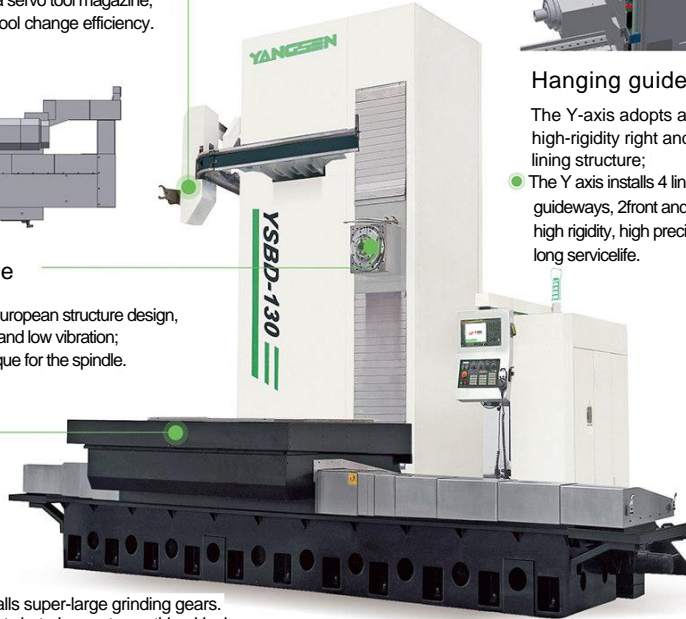


Hanging guideway structure

The Y-axis adopts a box-in-box high-rigidity right and left paired lining structure;
 ● The Y axis installs 4 linear guide guideways, 2 front and 2 back, with high rigidity, high precision and long service life.

Spindle structure

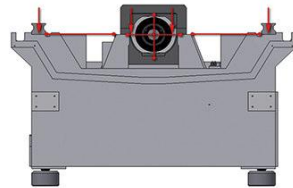
The main shaft installs European structure design, high rigidity, high speed and low vibration; Low speed and high torque for the spindle.



The worktable installs super-large grinding gears. It is combined with twin-turbo, vortex anti-backlash structure to ensure accuracy.

Transmission structure

The X and Z axis transmission method installs direct-acting four-wheel drive. It has stable accuracy. Also, it could eliminate backlash, improve torsional rigidity and allow angle;
 The Y-axis installs direct-drive transmission and cooperates with a German reducer to improve torsional rigidity.



Counterweight structure

Use servo frequency conversion hydraulic station, the counterweight of the hydraulic cylinder reduces the axial load and lengthen the life.

Casting structure design

The linear guideway installation surface and the ballscrew center are on the same plane, which makes the ballscrew drive more stable and ensures the stability of the overall accuracy of the machine tool.

YSBD Series Parameters

Model			YSBD-110/5T	YSBD-110/6T	YSBD-110/8T	YSBD-130/8T	YSBD-130/15T	YSBD-130/20T
Subject	Specifications	Units						
Travel	X-Axis(Standard)	mm	2000	2000	2500	2500	3000	4000
	X-Axis(Optional)	mm	2500	2500	2500/3000/3500/4000	2500/3000/3500	3500/4500/5500	4500/5500/6500
	Y-Axis(Standard)	mm	1800	1800	2000	2000	2600	3200
	Y-Axis(Optional)	mm	2000	2000	1/	2600	3200	3500
	Z-Axis(Standard)	mm	1500	1500	1500	1500	1500	2000
	Z-Axis(Optional)	mm	/	/	2000	2000	2000	2500
	W-Axis(Standard)	mm	550	550	550	700	700	700
Worktable	Worktable Size - Standard(L*W)	mm	1250x1250/5T	1250x1500/5T	1400x1600/8T	1400x1600/8T	1800x2200/15T	2500x2500/25T
	Worktable Size - Option(L*W)	mm	/	/	/	1600x1800/10T	2500x2500/20T	2500x3000/40T
	Table Indexing	deg	4910.001	1*10.001°	0.001°	0.001°	0.001°	0.001°
	T-Slot	mm	22H7x150x7	22H7x150x7	24H7x200x7	24H7x200x7	24H7x200x7	28H7x200x11
Spindle	Spindle Nose to cc	mm	65-1665	65-1665	65-2065	75-2075	75-2675	75-3275
	Spindle Nose to Table Center	mm	-125-1925	-125-1925	-25-2025	-40-2160	60-2260	165-2865
	Spindle Diameter	mm	Ø110	Ø110	Ø110	Ø130	Ø130	Ø130
	Spindle Type	/	BT50	BT50	BT50	BT50	BT50	BT50
	Spindle R.P.M	rpm	3500	3500	3500	3000	3000	3000
	Spindle Transmission	/				Belt		
Motor	Spindle Motor	kw	18.5/22	18.5/22	18.5/22	22/30	22/30	22/30
	∆ovirosmoTorque	Nm	973.5/1155	973.5/1155	973.5/1155	3011/4108.5	3011/4108.5	3011/4108.5
Accuracy	Indexing Accuracy	arc/sec	6°/10"	6°/10"	10°±4"	10°±4"	10°	10°
	Indexing Repeatability	arc/sec	±2°/±4"	±2°/±4"	0.01	±4"	±4"	±4"
	Position Accuracy	mm	0.01	0.01	0.01	0.01	0.01	0.01
	Repeatability	mm	0.005	0.005	0.005	0.005	0.005	0.005
DriveType	X/Y/Z-Axis	/		Direct				
	W-Axis	/		Belt				
Feedrate	X/Y/Z/W cutting feedrate	m/min	10/10/10/6	10/10/10/6	10/10/10/6	10/10/10/5	10/10/10/5	10/10/10/5
	X/Y/Z/W Rapid Traverse	m/min	10/10/10/8	10/10/10/8	10/10/10/8	10/10/10/8	10/10/10/8	10/10/10/8
	Tool Storage Capacity	/	40	40	40	60	60	60
Tool Changer	Tool Seletion Method	/			Servo Drive			
	Max.ToolDiameter	kg	25	25	25	25	25	25
	Max. Tool Weightmm		500	500	500	500	500	500
	Max. ToolLength	mm	Ø125/Ø250	Ø125/Ø250	Ø125/Ø250	Ø125/Ø250	125/250	125/250
	ToolChangeTime	sec	14	14	14	14	14	14
	Air Pressure Buirement	kg/cm ²	6	6	6	6	6	6
Power Required	Power Requirement	kva	50	50	65	90	95	95
	External Dimensions (L*W*H)	mm	6600x5150x5250	6600x5150x5250	6800x6000x5500	6900x6100x5000	8000x7500x5500	9000x8800x6100
Others	GrossWeight	t	30	31	34.5	41.5	45	54

Standard Accessories

ARM Type Tool Changer	Rigid Tapping	Dual LED Work Light	Spindle Nose Air Blow
Automatic Lubricating System	Heat Exchange for Electric Cabinet	LED3 Color Warning Light	Leveling Bolts and Pads
Semi-Enclosed Guard	Coolant Tank&Chip Tray	M30 Auto Off	Rotary Table

Options

Optical Linear Scale	Tool Breakage System	Oil Mist Collector	Workpiece & Tool Probe
CTS	Chip Conveyor System	OilSkimme	Auto Parts Probe Measuring System