

Both ends simultaneous turning lathe **BS-Series**

Highly accurate and high speed turning of the both ends of shaft shaped workpieces

Simultaneous turning of the both ends of shaft shaped workpieces which are used for copying machines or office equipments



Workpieces



■ Highly accurate · high speed turning

At the both ends of the spindle frame are mounted collets. Turning the workpieces brings higher accuracy than turning the tools.

The simultaneous turning of the both ends by one chucking shortens the machining time and unloading/loading time as well.

■ 2 axes slides move simultaneously

The slides allocated at the right and left of the spindle can machine the both ends of the workpieces independently. The control of the dimension is simple, which maintains accuracy stably and continuously.

The slides are gang turret, which shortens idling time and brings high accuracy.

■ Full automation with the loader

Productivity will increase by continuous turning together with the auto-loading device, built in the machine, the supply stocker and the collection chute.

One operator, operating several machines, can check the turned surface and the accuracy.

For more efficient automatic operation, chip treatment is fully considered. The slides at the both sides are of gang turret on the slant bed.

■ Complex machining, eccentric special turning (Option)

With the spindle being clamped, milling or drilling can be done. Turning and milling, both can be done. Eccentric turning is also possible by this machine.

Machine specifications

Item			BSS-300	BSM-Series	BSZ-Series
Capacity	Workpiece diameter	Max.	Φ30	Φ50★	Φ100★
		Min.	Φ10	Φ10★	Φ10★
	Workpiece length	Max.	330	350★	500★
		Min.	220	220★	220★
Swing over cross slide			100		200
Collet	Max.dia	mm	Φ30	Φ50★	Φ101★
	Shank diameter		Φ46	Φ60★	Φ120★
	Collet type		Draw type	Draw type/Stationary type★1	
Spindle	Command	S4 Digit			
	Speed	min ⁻¹	500~4,000		500~3,000★2
Slide	Number of slide	2			
	Type of tooling	Gang turret, tools fixed			Slant type gang turret
	Travel(Left and Right)	mm	X-axes 150 (Oil tank type)	X-axes 150 (Closed loop)	X-axes 260
			Z-axes 150		Z-axes 200
	Rapid traverse	m/min	X-axes 12		X-axes 20
	Jog feed rate	mm/min	0~1,260		
			Z-axes 12		Z-axes 20
Tool size	mm	13			
Motor	Spindle	KW	2.2/3.7		3.7/5.5
Power	Electricity	KVA	9 (5.3KW)	10.4 (6.0KW)	20 (12KW)
Machine height	mm	1,825	2,030	1,820	
Center height	mm	950	1,015	870	
Floor space(W×L)	mm	1,830(W)×950(L)	2,135(W)×1,285(L)	2,430(W)×1,050(L)	
Machine weight	kg	1,200	1,200	2,000	
Control unit	FANUC SYSTEM Oi-TD				
Axes controlled	4 (X1/X2/Z1/Z2) Simultaneous 4 axes				

★The capacity varies per machine in the series.

★1:Stationary type, ★2 Spindle speed 100~3,000min⁻¹ for BSZ-800/1000.

Standard Accessories

BSS-Series

- Splash guard
- Work light
- Lubricant pump
- Supply chute
- Collection chute
- Loading · unloading device
- Chip conveyor
- Air Blow
- Booster tank

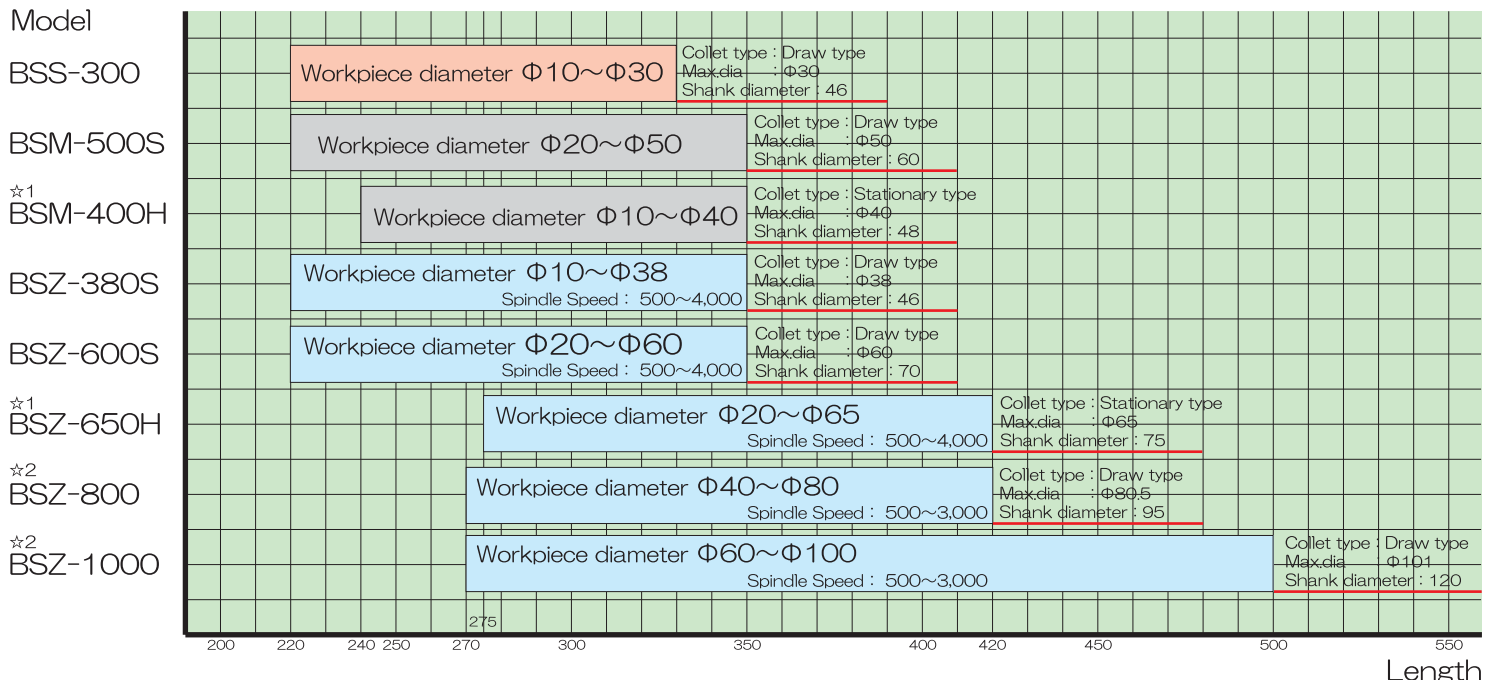
BSM-Series

- Splash guard
- Work light
- Lubricant pump
- Supply chute
- Collection chute
- Cylinder to collect workpieces separately
- Loading · unloading device
- Chip conveyor
- Air Blow
- Booster tank

BSZ-Series

- Splash guard
- Work light
- Lubricant pump
- Supply chute
- Collection chute
- Loading · unloading device
- Cylinder to collect workpieces separately
- Air Blow
- Chip conveyor
- Operation control system
- Booster tank

Range of workpiece



※Please contact our sales dept, for detail.



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