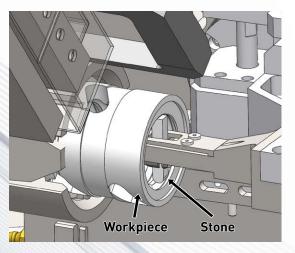
Ball Screw Nut I.D. Groove Stone Lapping Machine BSN-80 model





- This model is equipped with an automatic stone changer. By forming lapping stones outside the machine and loading them into a magazine in advance, operations can be performed with minimal downtime.
- 2. Capable of stone-lapping nut bore screw grooves up to 42mm in diameter.
- 3. Capable of lead angles up to ±20 degrees.
- The oscillating axis motion performed by a servo motor enables accurate stone-lapping of spiral ball grooves and other complex shapes. (Patent pending)
- Next-generation design for easy setup changeover and maintenance for enhanced functionality.



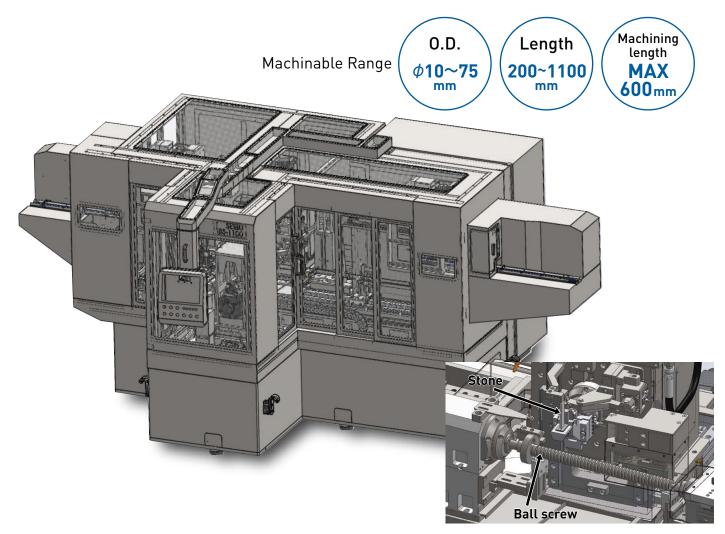
Main Specifications

Head stock	Main spindle	Drive motor	3.5kW AC servo motor	
		Revolution	Max. 1,000r/min	
	Work chuck	Cylinder drive	2 fingers + key	
	Traverse	Drive motor	0.4kW AC servo motor	
		Stroke	168mm	
Stone head	Oscillation unit	Frequency	Max.1,500fpm, Rough/finish multi-step change-over	
		Drive motor	2.0kW AC servo motor	
		Amplitude	±3°	
	Tool in/out	Stroke	271mm	
		Drive motor	0.4kW AC servo motor	
	Vertical unit	Stroke	45mm	
		Drive motor	1.5kW AC servo motor	
	Angle adjustment	Lead angle	±15°	
		Drive motor	0.2kW AC servo motor	

Work carrier	Lift unit	Travel amount	54mm	
		Drive motor	0.4kW AC servo motor	
	Approach unit	Travel amount	198mm	
		Drive motor	0.4kW AC servo motor	
	Back&forth drive unit	Travel amount	398mm	
		Drive motor	0.4kW AC servo motor	
	Chucker	3 fingers, In-out simultaneous chuck		
Power	Power Source	3φ AC 200V 60Hz		
	Control Voltage	AC100V, DC24V		
	Pneumatic	0.4MPa 450NL/min		
Machine Dimension		1400(W)*2800(D)*1800(H)		
Machine Weight		3700kg		

Ball Screw Shaft O.D. Groove Stone Lapping Machine

BS-1100 model



- 1. The oscillating axis motion performed by a servo motor enables accurate stone-lapping of spiral ball grooves and other complex shapes. (Patent pending)
- 2. Capable of stone-lapping ball screw grooves up to 75mm in diameter and 1,100mm in length.
- 3. Equipped with dual-axis oscillating stone-lapping units to shorten C/T or perform rough and finishing step processes.
- 4. Next-generation design for easy setup changeover and maintenance for enhanced functionality.
- 5. An automatic material handling device can be installed as an option, which enables fully automatic continuous operation that contributes to improved productivity.

Main Specifications

Oscillation	Frequency	Max1500fpm	In/Out separate handling		Conveyor+Carrier+Chucker
	Amplitude	±5°(Changevable with servo motor)	Work support system		Center support+Auto chuck
	Drive motor	2.0kW AC servo motor	Machining Cycle		Full auto cycle
Traverse -	Travel amount	620mm		Power Source	3¢ AC 200V 60Hz
	Drive motor	3.5kW AC servo motor	Power	Control Voltage	DC 24V
Main spindle	Revolution	1000 rpm	1 Ower		00240
	Drive motor	3.5kW AC servo motor		Pneumatic	0.4MPa 450NL/min
Tale stock	Travel amount	50mm	Machine	e Dimension	2900(W)*2300(D)*2000(H)mm
	Horizontal drive motor	0.7kW AC servo motor	Machine Weight		6000kg

Please do not hesitate to inquire for further details, such as processing methods, how to select the machine models to achieve your required accuracy, and more economical machining time.

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