

SL-250



① Values in [] are for option.

② *1: Originally designed in inch specifications

*2: Bar work capacity may be restricted due to chuck, cylinder, etc.

*3: Depending on restrictions imposed by the workpiece clamping device, jig and tool used, it may not be possible to rotate at the maximum spindle speed.

*4: Front removal type

2.2 SL-250B

Unit: mm (inch)

SL Series		SL-250B/500	SL-250B/1000
Capacity	Swing over bed	680 (26.77) <Interference with front cover: 454 (17.87)>	680 (26.77) <Interference with front cover: 445 (17.51)>
	Swing over cross slide	510 (20.08)	
	Distance between centers	575 (22.64)	1082.5 (42.62)
	Maximum turning diameter	390 (15.35) <389 (15.31)>*1	
	Standard turning diameter	250 (9.84)	
	Maximum turning length	485 (19.09)	1035 (40.75)
	Bar work capacity*2	73 (2.87)	
Travel	X-axis travel	235 <195 + 40> (9.25 <7.68 + 1.57>, 236.85 <196.85 + 40> (9.32 <7.75 + 1.57>)*1	
	Z-axis travel	520 (20.47)	1070 (42.13)
Spindle	Spindle speed range*3	min ⁻¹ 35-3500	
	Number of spindle speed ranges	2 [winding]	
	Type of spindle nose	JIS A ₂ -8	
	Through spindle hole diameter	86 (3.38)	
	Spindle bearing inner diameter	130 (5.11)	
Turret	Number of turrets	1	
	Type of turret	10 St. [12 St.]	
	Number of tools on turret	10 [12]	
	Square shank height of tool	25 (1)	
	Shank diameter of boring bar	Max. 40 (1-1/2)	
Feedrate	Rapid traverse rate	mm/min (ipm) X: 18000 (708.66) Z: 24000 (944.88)	
	Jog feedrate	mm/min (ipm) X, Z: 0-1260 (0-50) <15 Steps>	
Tailstock	Tailstock travel	515 (20.28)	1022 (40.24)
	Tailstock spindle diameter	85 (3.34)	110 (4.33)
	Taper hole of tailstock spindle	MT5 <Live center>	
	Tailstock spindle travel	120 (4.72)	150 (5.91)
Motors	Spindle drive motor (30 min/continuous rating)	kW (HP) 15/11 (20/15) [18.5/15 (24.8/20)]	
	Feed motors	kW (HP) X: 1.0 (1.34) Z: 3.8 (5.09) X: 1.4 (1.88) Z: 3.8 (5.09)	
	Hydraulic pump motor	kW (HP) 0.75 (1)	
	Lubricant pump motor	kW (HP) 0.02 (0.03)	
	Coolant pump motor <50 Hz>	kW (HP) 0.52 (0.70) <0.325 (0.44)>	
Power sources	Electrical power supply (Continuous rating)	kVA 28.7 [35.3]*4	
Tank capacity	Hydraulic oil tank capacity	L (gal.) 21 (5.54)	10 (2.64)
	Lubricant tank capacity	L (gal.) 4 (1.06)	
	Coolant tank capacity	L (gal.) 205 (54.12) [160 (42.24)]*5	170 (44.88)

A - 4 SPECIFICATIONS

SL Series		SL-250B/500	SL-250B/1000
Machine size	Machine height	1885 (74.21)	1905 (75.00)
	Floor space	2405 × 1760 (94.69 × 69.29)	3344 × 1920 (131.65 × 75.59)
	Mass of machine	kg (lb.) 4500 (9900)	5500 (12100)
Force & Diameter	Clamping force of turret	N (lbf) 39227 (8800) <at 3.43 MPa (497.7 psi)>	
	Coupling diameter	210 (8.26)	
	Ball screw diameter <Pitch>	X: 28 (1.10) <6> Z: 36 (1.41) <12>	
	Thrust force of tailstock spindle	N (lbf) 5462 (1225) <at 3.43 MPa (497.7 psi)>	



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*3: Depending on restrictions imposed by the workpiece clamping device, jig and tool used, it may not be possible to rotate at the maximum spindle speed.

*4: High output specification

*5: Front removal type

2.3 SL-250AMC

Unit: mm (inch)

SL Series		SL-250AMC/500	SL-250AMC/1000
Capacity	Swing over bed	680 (26.77) <Interference with front cover: 454 (17.87)>	680 (26.77) <Interference with front cover: 445 (17.51)>
	Swing over cross slide	510 (20.08)	
	Distance between centers	589 (23.19)	1096.5 (43.17)
	Maximum turning diameter	390 (15.35) <389 (15.31)>*1	
	Standard turning diameter	248 (9.76)	
	Maximum turning length	490 (19.29)	1040 (40.94)
	Bar work capacity*2	61 (2.40)	
Travel	X-axis travel	235 <195 + 40> (9.25 <7.68 + 1.57>, 236.85 <196.85 + 40> (9.32 <7.75 + 1.57>)*1	
	Z-axis travel	495 (19.49)	1045 (41.14)
Spindle	Spindle speed range*3	min ⁻¹ 40-4000	
	Number of spindle speed ranges	2 [winding]	
	Type of spindle nose	JIS A ₂ -6	
	Through spindle hole diameter	73 (2.87)	
	Minimum spindle indexing angle	° 0.001 <Least input increment>	
	Spindle bearing inner diameter	110 (4.33)	
Turret	Number of turrets	1	
	Type of turret	10 St. [12 St.]	
	Number of tools on turret	10 [12] <Rotary tool: 10 [12]>	
	Square shank height of tool	25 (1)	
	Shank diameter of boring bar	Max. 40 (1-1/2)	
Rotary tool spindle	Rotary tool spindle speed range	min ⁻¹ 3000 [4000]	
	Rotary tool machining capacity	Drill: Max. 20 (0.78) dia. Tap: Max. M16	
Feedrate	Rapid traverse rate	mm/min (ipm) X: 18000 (708.66) Z: 24000 (944.88)	
	Jog feedrate	mm/min (ipm) X, Z: 0-1260 (0-50) <15 Steps>	