

Technical Information

2. MACHINE SPECIFICATIONS

Model		LU15-MY		
		2ST	2SC	
		×250	×560	
Capability/ capacity	Swing over bed	mm (in.)	530 (20.87)	
	Swing over carriage	mm (in.)	340 (13.39)	
	Maximum machining diameter	mm (in.)	340 (13.39)	
	Maximum machining length	mm (in.)	250 (9.84) 560 (22.05)	
Travel	X-axis travel	mm (in.)	Upper: 280 (11.02) [175 + 105 (6.98 + 4.13): ODTB BY Lower: 140 (5.51) [90 + 50 (3.54 + 1.97)]	
	Z-axis travel	mm (in.)	Upper: 600 (23.62) / Lower: 615 (24.21)	
	Y-axis travel	mm (in.)	Upper: 120 (4.72)(from +70 to -50)	
	C-axis travel		360° (rotation controlled in 0.001° increments)	
Spindle	Spindle speed	min ⁻¹ {rpm}	45 to 4,500 [38 to 3,800]	
	Number of spindle speed ranges		2 ranges by coil switching [2 ranges by coil switching]	
	Spindle nose		JIS A2-6 [JIS A2-8]	
	Spindle bore	mm (in.)	∅100 (3.94) / ∅62 (2.44) [∅120 (4.72) / ∅80 (3.15)]	
Turret	Upper (Clutch OD/Clamping force)		V12 multifunction NC non-lift (∅250 (9.84) / 4020 kgf (8864 lbf))	
	Lower (Clutch OD/Clamping force)		V8 VDI NC non-lift (∅217 (8.54) / 3260 kgf (7,172 lbf))	
	OD tool shank	mm (in.)	25 × 25 (0.98 × 0.98) (VDI toolholder shank dia: ∅40 (1.57))	
	ID tool shank dia	mm (in.)	∅40 (1.57) (VDI toolholder shank dia: ∅40 (1.57))	
Rotary tool spindle speed		min ⁻¹ {rpm}	Upper, Lower: 45 to 4,500	
Rotary tool spindle speed ranges		mm (in.)	∅20 (0.79)	
Rapid traverse (X, Z)		mm/min (ipm) min ⁻¹ {rpm}	X: 15,000 (590.55) / Z: 20,000 (787.40) / Y: 6,000(236.22) C: 200 (spindle VAC motor control)	
Tailstock	Quill dia/stroke	mm (in.)	— 90 (3.54) / 120 (4.72)	
	Quill bore taper		— MT No.5 (live center)	
	Max thrust	kgf (ft-lbf)	— 500 (1100)	
Motor	Spindle drive		kW (hp)	VAC integral motor/spindle 22/15 kW (30/20 hp) (20 min/cont.) [for both standard and big bore spindles]
	Upper turret	Z-axis feed	kW (hp)	BL6 (8)
		Z-axis feed	kW (hp)	BL3 (4)
		Y-axis feed	kW (hp)	BL3 (4)
		Turret index	kW (hp)	BL4.2 (5.6)
	Lower turret	Z-axis feed	kW (hp)	BL4 (5)
		X-axis feed	kW (hp)	BL1.5 (2)
Turret index		kW (hp)	BL1 (1)	
Machine size	Coolant pump (capacity)		kW (hp) [ℓ (gal)]	0.25 (0.33) [135 (511)]
	Machine height		mm (in.)	2611 (102.80)
	Required floor space		mm (in.)	3905 × 2100 (154 × 83)
	Machine weight (including NC unit)		kg (lb)	6300 (13,860) 6800 (14,960)
	Center height		mm (in.)	1050 (41.34)
CNC system			OSP7000L	

Spindle data in [] are for big bore spindle.

※ The machine name is LU15-MY 2SC × 560. Do not confuse with LU15 × 600 just because the upper turret Z-axis has a travel of 600. (The bed and legs, however, are the same with those of LU15 × 600).