

Machine Specifications

Item	Model	LB3000 EX II (L)				LB3000 EX II (M)						
		T	C × 500	C × 1000	C × 1300	T	C × 500	C × 1000	C × 1300			
Capacity	Swing over bed	mm (in) $\phi 580$ ($\phi 22.83$)										
	Swing over saddle	mm (in) $\phi 470$ ($\phi 18.5$)										
	Distance between centers (W specs: DBN)	-	520 (20.47)	1,020 (40.16)	1,335 (52.59)	-	520 (20.47)	1,020 (40.16)	1,335 (52.59)			
	Max turning dia	mm (in) $\phi 410$ (16.14)				mm (in) $\phi 340$ (13.39)						
	Max work length	250 (9.84)	500 (19.69)	1,000 (39.37)	1,300 (51.18)	250 (9.84)	500 (19.69)	1,000 (39.37)	1,300 (51.18)			
Travels	X axis	mm (in) 260 (10.24)										
	Z axis	565 (22.24)		1,065 (41.93)		1,380 (54.33)		565 (22.24)		1,065 (41.93)		
	Y axis	mm (in) -										
	C axis (minimum control angle)	deg -				deg 360 (0.001)						
Spindle	Speed	min ⁻¹ 45 to 5,000 {42 to 4,200} <28 to 2,800>										
	Speed ranges	2 auto ranges (2 range motor coil switching)										
	Nose	JIS A2-6 {JIS A2-8} <JIS A2-11>										
	Bore dia	mm (in) $\phi 80$ { $\phi 91$ } < $\phi 110$ > { $\phi 3.15$ { $\phi 3.58$ } < $\phi 4.33$ >}										
	Front bearing dia	mm (in) $\phi 120$ { $\phi 140$ } < $\phi 150$ > { $\phi 4.72$ { $\phi 5.51$ } < $\phi 5.91$ >}										
	Sub-spindle	Speed	min ⁻¹ -									
Speed ranges		-										
Nose		-										
Bore dia		mm (in) -										
Front bearing dia		mm (in) -										
Turret		Type	V12 NC turret				M-V12 NC turret					
	No. of tools	L: 12				L / M: 12						
	OD tool shank	mm (in) $\square 25$ (1)										
	ID tool shank dia	mm (in) $\phi 40$ (1.57)										
	Turret rotation	sec/index 0.1										
Milling tool	Spindle speed	min ⁻¹ -				45 to 6,000						
	Speed range	-				Infinitely variable						
Feed rates	Rapid traverse	m/min (ipm) X: 25, Z: 30 (984, 1,181)										
	Tailstock rapids	-	12 (472)			-	12 (472)					
	Rapid traverse (W)	m/min (ipm) -										
	Rapid traverse (C)	min ⁻¹ - 200										
Tailstock	Tapered bore type	-	MT No. 5 (revolving center)			-	MT No. 5 (revolving center)					
	Travel	-	515 (20.28)	1,015 (39.96)	1,330 (52.36)	-	515 (20.28)	1,015 (39.96)	1,330 (52.36)			
Motors	Main spindle (30 min/cont)	kW (hp) 22/15 (30/20) {30/22 (40/30)} [30/22 (40/30)] <22/15 (30/20)>										
	Sub-spindle	kW (hp) -										
	Milling tool spindle	kW (hp) - 7.1/4.1 (9.5/5.5) (25 min/cont)										
	Axis drive	kW (hp) X: 2.8/Z: 3.5 (3.8/4.7)										
	Tailstock travel	-	2.9 (3.92)			-	2.9 (3.92)					
	Sub-spindle travel	kW (hp) -										
	Coolant pump (60 Hz / 50 Hz)	SD: 0.25/0.25 (0.34/0.34) RD: 0.75/0.55 (1/0.73)		SD: 0.82/0.52 (1.09/0.69)		SD: 0.25/0.25 (0.34/0.34) RD: 0.75/0.55 (1/0.73)		SD: 0.82/0.52 (1.09/0.69)				
	Machine size	Height	1,824 (71.81)		1,975 (77.76)		1,824 (71.81)		1,975 (77.76)			
		Floor space*1 (side discharge L type tank)	2,764 × 1,790 (108.82 × 70.47)		3,844 × 2,065 (151.34 × 81.30)		4,344 × 2,185 (171.02 × 86.02)		2,764 × 1,790 (108.82 × 70.47)		3,844 × 2,065 (151.34 × 81.30)	
		Floor space*1 (side discharge I type tank)	2,340 × 1,790 (92.13 × 70.47)		3,420 × 2,065 (134.65 × 81.30)		-		2,340 × 1,790 (92.13 × 70.47)		3,420 × 2,065 (134.65 × 81.30)	
Mass (w/ CNC)		4,250 (9,350)	4,400 (9,680)	6,000 (13,200)	6,700 (14,740)	4,350 (9,570)	4,500 (9,900)	6,100 (13,420)	6,800 (14,991)			
CNC	OSP-P300LA											

SD: side discharge, RD: rear discharge, DBN: Distance between noses

Item	LB3000 EX II (MY)			LB3000 EX II (W)		LB3000 EX II (MW)		LB3000 EX II (MYW)				
	T	C × 450	C × 950	C × 1200	×500	×800	×500	×800	×450	×800		
Capacity	mm (in) $\phi 580$ ($\phi 22.83$)											
	mm (in) $\phi 470$ ($\phi 18.5$)											
	-	470 (18.5)	970 (38.19)	1,220 (48.03)	785 (30.91)	1,085 (42.72)	785 (30.91)	1,085 (42.72)	785 (30.91)	1,085 (42.72)		
	mm (in) $\phi 340$ (13.39)			mm (in) $\phi 410$ (16.14)			mm (in) $\phi 340$ (13.39)			mm (in) $\phi 340$ (13.39)		
	250 (9.84)	450 (17.72)	950 (37.4)	1,200 (47.24)	-	-	-	-	-	-		
Travels	mm (in) 260											
	510 (20.08)		1,010 (39.76)		1,255 (49.41)		565 (22.24)		1,065 (41.93)			
	120 (+70 to -50) (4.72 (+2.76 to -1.97))			-			-			115 (+70 to -45) (4.53 (+2.76 to -1.77))		
	360 (0.001)			-			-			360 (0.001)		
Spindle	mm (in) 45 to 5,000 {42 to 4,200} <28 to 2,800>											
	2 auto ranges (2 range motor coil switching)											
	JIS A2-6 {JIS A2-8} <JIS A2-11>											
	mm (in) $\phi 80$ { $\phi 91$ } < $\phi 110$ > { $\phi 3.15$ { $\phi 3.58$ } < $\phi 4.33$ >}											
	mm (in) $\phi 120$ { $\phi 140$ } < $\phi 150$ > { $\phi 4.72$ { $\phi 5.51$ } < $\phi 5.91$ >}											
	Sub-spindle	min ⁻¹ -										
2 auto ranges (2 range motor coil switching)												
mm (in) $\phi 140$ flat												
mm (in) $\phi 62$ (2.44)												
mm (in) $\phi 100$ (3.94)												
Turret		M-V12 NC turret			V12 NC turret		M-V12 NC turret					
	L / M: 12			L: 12		L / M: 12						
	mm (in) $\square 25$ (1)											
	mm (in) $\phi 40$ (1.57)											
	sec/index 0.1											
Milling tool	45 to 6,000			-		45 to 6,000						
	Infinitely variable			-		Infinitely variable						
Feed rates	X: 25, Z: 30, Y: 12.5 (984, 1,181, 492)			X: 25, Z: 30 (984, 1,181)		X: 25, Z: 30 (984, 1,181)		X: 25, Z: 30, Y: 12.5 (984, 1,181, 492)				
	-	12 (472)			-		-					
	-			30		-						
	200			-		200						
Tailstock	mm (in) MT No. 5 (revolving center)											
	-	515 (20.28)	1,015 (39.96)	1,330 (52.36)	-	515 (20.28)	1,015 (39.96)	1,330 (52.36)	-	-		
Motors	22/15 (30/20) {30/22 (40/30)} [30/22 (40/30)] <22/15 (30/20)>											
	11/7.5 (15/10) (20 min/cont)											
	-	7.1/4.1 (9.5/5.5) (25 min/cont)			-		7.1/4.1 (9.5/5.5) (25 min/cont)					
	X: 3.5/Z: 4.6, Ys: 3.5 (4.7/6.1/4.7)			X: 2.8 / Z: 3.5 (3.8/4.7)		X: 2.8 / Z: 3.5 (3.8/4.7)		X: 3.5 / Z: 4.6, Ys: 3.5 (4.7/6.1/4.7)				
	2.9 (3.92)			-		-						
	2.8 (3.75)											
	SD: 0.25/0.25 (0.34/0.34) RD: 0.75/0.55 (1/0.73)		SD: 0.82/0.52 (1.09/0.69)		SD: 0.25/0.25 (0.34/0.34) RD: 0.75/0.55 (1/0.73)		SD: 0.82/0.52 (1.09/0.69)					
	2,250 (88.58)		2,455 (96.65)		2,455 (96.65)		1,824 (71.81)		1,975 (77.76)		2,250 (88.58)	
	2,764 × 1,785 (108.82 × 70.28)		3,844 × 2,065 (151.34 × 81.30)		4,344 × 2,185 (171.02 × 86.02)		3,164 × 1,790 (124.57 × 70.47)		3,844 × 2,065 (151.34 × 81.30)		3,274 × 1,790 (128.90 × 70.47)	
	2,340 × 1,785 (92.13 × 70.28)		3,420 × 2,065 (134.65 × 81.30)		-		2,740 × 1,790 (107.87 × 70.47)		3,420 × 2,065 (134.65 × 81.30)		2,850 × 1,790 (112.20 × 70.47)	
4,850 (10,692)	5,000 (11,022)	6,600 (14,520)	7,400 (16,280)	4,650 (10,230)	6,250 (13,750)	4,750 (10,450)	6,350 (13,970)	5,250 (11,550)	6,850 (15,070)			
OSP-P300LA												

{ } : Big-Bore specs < > : Super Big-Bore specs [] : With high power spec

*1: Includes standard spindle, side discharge specs; tank