

Item	Model		LB3000 EX II (L)				LB3000 EX II (M)			
			T	C × 500	C × 1,000	C × 1,300	T	C × 500	C × 1,000	C × 1,300
Capacity	Swing over bed	mm (in.)	ø580 (ø22.83)							
	Swing over saddle	mm (in.)	ø470 (ø18.5)							
	Distance between centers (W specs: DBN)	mm (in.)	-	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.)	ø410 (16.14)			ø340 (13.39)				
	Max work length	mm (in.)	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	mm (in.)	565 (22.24)		1,065 (41.93)	1,380 (54.33)	565 (22.24)		1,065 (41.93)	1,380 (54.33)
	Y axis	mm (in.)	-							
	C axis	deg	-			360 (0.001 increments)				
Spindle	Spindle speed	min <sup>-1</sup> (rpm)	45 to 5,000 [42 to 4,200] <28 to 2,800>							
	Speed ranges		2 auto ranges (2 range motor coil switching)							
	Spindle nose		JIS A2-6 [JIS A2-8] <JIS A2-11>							
	Spindle bore dia	mm (in.)	ø80 [ø91] <ø110> (ø3.15 [ø3.58] <ø4.33>)							
	Front bearing dia	mm (in.)	ø120 [ø140] <ø150> (ø4.72 [ø5.51] <ø5.91>)							
Sub-spindle	Spindle speed	min <sup>-1</sup> (rpm)	-							
	Speed ranges		-							
	Spindle nose		-							
	Spindle 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.)	□25 (1)							
	ID tool shank dia	mm (in.)	ø40 (1.57)							
	Turret rotation	sec/index	0.1							
Milling tool	Spindle speed	min <sup>-1</sup> (rpm)	-			45 to 6,000				
	Speed range	infinitely variable	-			Infinitely variable				
Feedrates	Rapid traverse	m/min (ipm)	X: 25, Z: 30 (984, 1,181)							
	Tailstock rapids	m/min (ipm)	-	12 (472)			-	12 (472)		
	Rapid traverse (W)	m/min (ipm)	-			-				
	Rapid traverse (C)	min <sup>-1</sup> (rpm)	-			200				
	Cutting (X-Z-Y)	mm/rev (ipr)	0.001 to 1,000.000 (0.00004 to 39.37)							
Tailstock	Tapered bore type		-	MT 5 (revolving center)			-	MT 5 (revolving center)		
	Quill travel	mm (in.)	-	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)] <22/15 (30/20)> {30/22 (40/30)}							
	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 kW (hp)		-	2.9 (3.92)			-	2.9 (3.92)		
	Sub-spindle travel kW (hp)		-			-				
	Coolant (50 Hz / 60 Hz) kW (hp)		SD: 0.25/0.25 (0.34/0.34) RD: 0.55/0.75 (0.73/1)			SD: 0.55/0.75 (0.73/1)	SD: 0.25/0.25 (0.34/0.34) RD: 0.55/0.75 (0.73/1)		SD: 0.55/0.75 (0.73/1)	
Machine size	Height	mm (in.)	1,839 (72)		1,975 (77)	1,975 (77)	1,839 (72)		1,975 (77)	1,975 (77)
	Floor space (side discharge L type tank)	mm (in.)	2,764 × 1,749 (109 × 69)		3,844 × 2,041 (151 × 80)	4,344 × 2,162 (171 × 85)	2,764 × 1,749 (109 × 69)		3,844 × 2,041 (151 × 80)	4,344 × 2,162 (171 × 85)
	Floor space (side discharge I type tank)	mm (in.)	2,340 × 1,749 (92 × 69)		3,420 × 2,041 (135 × 80)	-	2,340 × 1,749 (92 × 69)		3,420 × 2,041 (135 × 80)	-
	Weight (w/ CNC)	kg (lb)	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 nose  
[ ]: Big-Bore specs < >: Super Big-Bore specs { } : With power-up spec

Item	Model		LB3000 EX II (MY)				LB3000 EX II (W)	
			T	C × 450	C × 950	C × 1,200	×500	×800
Capacity	Swing over bed	mm (in.)	ø580 (ø22.83)					
	Swing over saddle	mm (in.)	ø470 (ø18.5)					
	Distance between centers (W specs: DBN)	mm (in.)	-	470 (18.5)	970 (38.19)	1,220 (48.03)	785 (30.91)	1,085 (42.72)
	Max turning dia	mm (in.)	ø340 (13.39)				ø410 (16.14)	
	Max work length	mm (in.)	250 (9.84)	450 (17.72)	950 (37.4)	1,200 (47.24)	-	
Travels	X axis	mm (in.)	260 (10.24)					
	Z axis	mm (in.)	510 (20.08)		1,010 (39.76)	1,255 (49.41)	565 (22.24)	1,065 (41.93)
	Y axis	mm (in.)	120 (+70 to -50) (4.72 (+2.76 to -1.97))				-	
	C axis	deg	360 (0.001 increments)				-	
Spindle	Spindle speed	min <sup>-1</sup> (rpm)	45 to 5,000 [42 to 4,200] <28 to 2,800>					
	Speed ranges		2 auto ranges (2 range motor coil switching)					
	Spindle nose		JIS A2-6 [JIS A2-8] <JIS A2-11>					
	Spindle bore dia	mm (in.)	ø80 [ø91] <ø110> (ø3.15 [ø3.58] <ø4.33>)					
	Front bearing dia	mm (in.)	ø120 [ø140] <ø150> (ø4.72 [ø5.51] <ø5.91>)					
Sub-spindle	Spindle speed	min <sup>-1</sup> (rpm)	-				50 to 6,000	
	Speed ranges		-				2 auto ranges (2 range motor coil switching)	
	Spindle nose		-				ø140 flat	
	Spindle bore dia	mm (in.)	-				ø62 (2.44)	
	Front bearing dia	mm (in.)	-				ø100 (3.94)	
Turret	Type		M-V12 NC turret				V12 NC turret	
	No. of tools		L / M: 12				L: 12	
	OD tool shank	mm (in.)	□25 (1)					
	ID tool shank dia	mm (in.)	ø40 (1.57)					
	Turret rotation	sec/index	0.1					
Milling tool	Spindle speed	min <sup>-1</sup> (rpm)	45 to 6,000				-	
	Speed range	infinitely variable	Infinitely variable				-	
Feedrates	Rapid traverse	m/min (ipm)	X: 25, Z: 30, Y: 12.5 (984, 1,181, 492)				X: 25, Z: 30 (984, 1,181)	
	Tailstock rapids	m/min (ipm)	-	12 (472)				-
	Rapid traverse (W)	m/min (ipm)	-				30	
	Rapid traverse (C)	min <sup>-1</sup> (rpm)	200				-	
	Cutting (X-Z-Y)	mm/rev (ipr)	0.001 to 1,000.000 (0.00004 to 39.37)					
Tailstock	Tapered bore type		-	MT 5 (revolving center)				-
	Quill travel	mm (in.)	-	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)] <22/15 (30/20)> {30/22 (40/30)}					
	Sub-spindle kW (hp)		-				11/7.5 (15/10) (20 min/cont)	
	Milling tool spindle kW (hp)		-	7.1/4.1 (9.5/5.5) (25 min/cont)				-
	Axis drive kW (hp)		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)	
	Tailstock travel kW (hp)		-	2.9 (3.92)				-
	Sub-spindle travel kW (hp)		-				2.8 (3.75)	
	Coolant (50 Hz / 60 Hz) kW (hp)		SD: 0.25/0.25 (0.34/0.34) RD: 0.55/0.75 (0.73/1)				SD: 0.55/0.75 (0.73/1) RD: 0.25/0.25 (0.34/0.34) RD: 0.55/0.75 (0.73/1)	
Machine size	Height	mm (in.)	2,250 (89)		2,455 (97)	2,455 (97)	1,839 (72)	1,975 (78)
	Floor space (side discharge L type tank)	mm (in.)	2,764 × 1,751 (109 × 69)		3,844 × 2,041 (151 × 80)	4,344 × 2,162 (171 × 85)	3,164 × 1,749 (125 × 69)	3,844 × 2,041 (151 × 80)
	Floor space (side discharge I type tank)	mm (in.)	2,340 × 1,751 (92 × 69)		3,420 × 2,041 (135 × 80)	-	2,740 × 1,749 (108 × 69)	3,420 × 2,041 (135 × 80)
	Weight (w/ CNC)	kg (lb)	4,850 (10,692)	5,000 (11,022)	6,000 (14,520)	7,400 (16,280)	4,650 (10,230)	6,250 (13,750)
CNC		OSP-P300LA						

SD: side discharge, RD: rear discharge, DBN: Distance between nose  
[ ]: Big-Bore specs < >: Super Big-Bore specs { } : With power-up spec

Item	Model		LB3000 EX II (MW)		LB3000 EX II (MYW)	
			×500	×800	×450	×800
Capacity	Swing over bed	mm (in.)	ø580 (ø22.83)			
	Swing over saddle	mm (in.)	ø470 (ø18.5)			
	Distance between centers (W specs: DBN)	mm (in.)	785 (30.91)	1,085 (42.72)	785 (30.91)	1,085 (42.72)
	Max turning dia	mm (in.)	ø340 (13.39)		ø340 (13.39)	
	Max work length	mm (in.)	-		-	
Travels	X axis	mm (in.)	260 (10.24)			
	Z axis	mm (in.)	550 (21.65)	995 (39.17)	510 (20.08)	1,010 (39.76)
	Y axis	mm (in.)	-		115 (+70 to -45) (4.53 (+2.76 to -1.77))	
	C axis	deg	360 (0.001 increments)			
Spindle	Spindle speed	min <sup>-1</sup> (rpm)	45 to 5,000 [42 to 4,200] <28 to 2,800>			
	Speed ranges		2 auto ranges (2 range motor coil switching)			
	Spindle nose		JIS A2-6 [JIS A2-8] <JIS A2-11>			
	Spindle bore dia	mm (in.)	ø80 [ø91] <ø110> [ø3.15 [ø3.58] <ø4.33>]			
	Front bearing dia	mm (in.)	ø120 [ø140] <ø150> [ø4.72 [ø5.51] <ø5.91>]			
Sub-spindle	Spindle speed	min <sup>-1</sup> (rpm)	50 to 6,000			
	Speed ranges		2 auto ranges (2 range motor coil switching)			
	Spindle nose		ø140 flat			
	Spindle bore dia	mm (in.)	ø62 (2.44)			
	Front bearing dia	mm (in.)	ø100 (3.94)			
Turret	Type		M-V12 NC turret			
	No. of tools		L / M: 12			
	OD tool shank	mm (in.)	□ 25 (1)			
	ID tool shank dia	mm (in.)	ø40 (1.57)			
	Turret rotation	sec/index	0.1			
Milling tool	Spindle speed	min <sup>-1</sup> (rpm)	45 to 6,000			
	Speed range	infinitely variable	Infinitely variable			
Feedrates	Rapid traverse	m/min (ipm)	X: 25, Z: 30 (984, 1,181)		X: 25, Z: 30, Y: 12.5 (984, 1,181, 492)	
	Tailstock rapids	m/min (ipm)	-			
	Rapid traverse (W)	m/min (ipm)	30			
	Rapid traverse (C)	min <sup>-1</sup> (rpm)	200			
	Cutting (X-Z-Y)	mm/rev (ipr)	0.001 to 1,000.000 (0.00004 to 39.37)			
Tailstock	Tapered bore type		-			
	Quill travel	mm (in.)	-			
Motors	Main spindle (30 min/cont) kW (hp)		22/15 (30/20) [30/22 (40/30)] <22/15 (30/20)> {30/22 (40/30)}			
	Sub-spindle	kW (hp)	11/7.5 (15/10) (20 min/cont)			
	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)		X: 3.5 / Z: 4.6, Ys: 3.5 (4.7/6.1/4.7)	
	Tailstock travel	kW (hp)	-			
	Sub-spindle travel	kW (hp)	2.8 (3.75)			
	Coolant (50 Hz / 60 Hz)	kW (hp)	SD: 0.25/0.25 (0.34/0.34) RD: 0.55/0.75 (0.73/1)			
Machine size	Height	mm (in.)	1,839 (73)	1,975 (78)	2,250 (89)	2,455 (97)
	Floor space (side discharge L type tank)	mm (in.)	3,164 × 1,749 (125 × 69)	3,844 × 2,041 (151 × 80)	3,274 × 1,751 (129 × 69)	3,844 × 2,041 (151 × 80)
	Floor space (side discharge I type tank)	mm (in.)	2,740 × 1,749 (108 × 69)	3,420 × 2,041 (135 × 80)	2,850 × 1,751 (112 × 69)	3,420 × 2,041 (135 × 80)
	Weight (w/ CNC)	kg (lb)	4,750 (10,450)	6,350 (13,970)	5,250 (11,550)	6,850 (15,070)
CNC		OSP-P300LA				

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

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