

Model			LB45III					LB45III (M)					LB45III (MY)				
			T	C×1000	C×2000	C×3000	C×4000	T	C×1000	C×2000	C×3000	C×4000	T	C×1000	C×2000	C×3000	C×4000
Capacity	Swing over bed	mm (in.)	ø900 (35.43)										ø1,330 (52.36)				
	Swing over carriage	mm (in.)	ø550 (21.65)										ø920 (36.22)				
	Distance between centers	mm (in.)	–	1,060 (41.73)	2,060 (81.10)	3,060 (120.47)	4,060 (159.84)	–	1,060 (41.73)	2,060 (81.10)	3,060 (120.47)	4,060 (159.84)	–	1,060 (41.73)	2,060 (81.10)	3,060 (120.47)	4,060 (159.84)
	Max turning dia	mm (in.)	ø660 (25.98)					ø640 (25.20)					ø650 (25.59)				
	Max turning length	mm (in.)	750 (29.53)	1,000 (39.37)	2,000 (78.74)	3,000 (118.11)	4,000 (157.48)	750 (29.53)	1,000 (39.37)	2,000 (78.74)	3,000 (118.11)	4,000 (157.48)	750 (29.53)	1,000 (39.37)	2,000 (78.74)	3,000 (118.11)	4,000 (157.48)
Travels	X axis travel	mm (in.)	440 {330+110} (17.32 {12.99 + 4.33})										614 {439 + 175} (24.17 {17.28 + 6.89})				
	Z axis travel	mm (in.)	1,060 (41.73)		2,060 (81.10)	3,060 (120.47)	4,060 (159.84)	1,060 (41.73)		2,060 (81.10)	3,060 (120.47)	4,060 (159.84)	1,060 (41.73)		2,060 (81.10)	3,060 (120.47)	4,060 (159.84)
	Y axis travel	mm (in.)	–					–					250 (+150 to –100)				
	C axis travel	deg	–					360° (0.001°)									
Spindle	Spindle speed	min ⁻¹ {rpm}	12 to 2,800 [10 to 2,400]<31 to 900>														
	No. of spindle speed ranges		4 auto ranges (4 gears) [4 auto ranges] <Infinitely variable>										4 gears [4 gears] <Infinitely variable>				
	Spindle nose shape		JIS A2-11 [JIS A2-11]<JIS A2-20>														
	Thru-spindle hole dia	mm (in.)	ø110 [ø130] <ø260> (4.33 [5.12] <10.24>)														
	Spindle bearing ID	mm (in.)	ø150 [ø180] <ø320> (5.91 [7.09] <12.60>)														
Turret	Type		V12 turret (lining)					Multitasking V12 turret (VDI)					Multitasking V12 turret (Radial)				
	No. of tools		12					12 (L/M)									
	Tool shank height	mm (in.)											□32 (1-1/4)				
	Boring bar shank dia	mm (in.)											ø63 (2-1/2)				
	Indexing time	sec.	0.7/1 index (lift-up)										1.2/1 index (no lift-up)				
Milling Tool	Spindle speed & range	min ⁻¹ {rpm}	–					40 to 2,000					40 to 3,500				
	No. of speeds & ranges		–					2 auto ranges (2 gears)					Infinitely variable				
Feedrates	Rapid traverse speed	mm/min (ipm)	X: 15 (0.59) Z: 20 (0.79)					X: 15 (0.59) Z: 20 (0.79) C: 100 min ⁻¹					X: 15 (0.59) Z: 20 (0.79) Y: 6 (0.24) C: 100 min ⁻¹				
Tailstock	Tailstock quill dia	mm (in.)	–	ø130 (5.12)				–	ø130 (5.12)				–	ø130 (5.12)			
	Tailstock quill taper hole		–	MT 5 (built-in center)				–	MT 5 (built-in center)				–	MT 5 (built-in center)			
	Tailstock travel	mm (in.)	–	170 (6.69)				–	170 (6.69)				–	170 (6.69)			
Motors	Spindle drive (30 min/cont)	kW (hp)	37/30 (50/40), 45/37 (60/50)*					37/30 (50/40) [37/30], 45/37 (60/50)* <45/37>									
	Rotary tool motor (30 min/cont)	kW (hp)	–					7.5/5.5 (10/7)					15/11 (20/14.7)				
	Feed axis drive	kW (hp)	X: 3.6 (4.8) Z: L4.6 (8)										X: 3.5 (4.8) Z: 4.6 (8) Ys: 4.6 (8)				
	Coolant pump	kW (hp)	0.4 (0.53)														
Machine Size	Height	mm (in.)	2,587 (101.85)		2,617 (103.03)	2,505 (98.62)	2,545 (100.2)	2,587 (101.85)		2,617 (103.03)	2,505 (98.62)	2,545 (100.2)	3,566 (140.39)		3,596 (141.57)	3,511 (138.23)	3,674 (144.65)
	Floor space	mm×mm	4,260 × 3,358		5,760 × 3,358	7,010 × 2,920	8,570 × 3,181	4,260 × 3,358		5,760 × 3,358	7,010 × 2,920	8,570 × 3,181	4,858×3,939		6,324 × 3,674	7,536 × 3,230	9,025×3,483
	Width × Depth (tank included)	(in.)	(167.72 × 132.20)		(226.77 × 132.20)	(275.98 × 114.96)	(337.4 × 125.2)	(167.72 × 132.20)		(226.77 × 132.20)	(275.98 × 114.96)	(337.4 × 125.2)	(191.26 × 155.08)		(248.98 × 144.65)	(296.69 × 127.17)	(355.31 × 137.13)
	Weight	kg (lb)	12,000 (26,000)	12,500 (27,500)	14,500 (31,900)	18,000 (39,600)	19,500 (42,900)	12,500 (27,500)	13,000 (28,600)	15,000 (33,000)	18,500 (40,700)	20,000 (44,000)	17,000 (37,400)	17,500 (38,500)	21,500 (47,300)	25,500 (56,100)	26,000 (57,200)
CNC system			OSP-P300LA														

[] : Big-Bore specs < >: Super Big-Bore specs * : High power motor specs