

LU Series



			LU35II				LU35II (M)				LU45				LU45 (M)				
CAPACITY	ITEM	UNIT	2ST × 600	2SC × 850	2SC × 1500	2SC × 2000	2ST × 600	2SC × 850	2SC × 1500	2SC × 2000	2ST × 750	2SC × 1000	2SC × 2000	2SC × 3000	2ST × 750	2SC × 1000	2SC × 2000	2SC × 3000	
	Swing over bed	mm (in.)	ø740 (29.13)								ø840 (33.07)			ø780 (30.71)		ø840 (33.07)			ø780 (30.71)
	Swing over saddle	mm (in.)	ø480 (18.90)								ø555 (21.85)								
	Distance between centers	mm (in.)	–	850 (33.46)	1,500 (59.06)	2,000 (78.74)	–	850 (33.46)	1,500 (59.06)	2,000 (78.74)	–	1,000 (39.37)	2,000 (78.74)	3,000 (118.11)	–	1,000 (39.37)	2,000 (78.74)	3,000 (118.11)	
	Max turning diameter	mm (in.)	ø550 (21.65)				ø550 (21.65)				ø650 (25.59)	ø555 (21.85)			ø650 (25.59)	ø555 (21.85)			
	Max work length	mm (in.)	920 (36.22)	920 (36.22)	1,750 (68.90)	2,070 (81.50)	920 (36.22)	920 (36.22)	1,750 (68.90)	2,070 (81.50)	750 (29.53)	1,000 (39.37)	2,000 (78.74)	3,000 (118.11)	750 (29.53)	1,000 (39.37)	2,000 (78.74)	3,000 (118.11)	
	Max work weight	kg	Single support: 210 [270], double-centered support: 1,000								Single support: 300 [450], double-centered support: 1,500								
TRAVELS	X axis	mm	UT: 380 {275+105}/LT: 250 {180+70}				UT: 380 {275+105}/LT: 250 {180+70}				UT: 440 {330+110}/LT: 305 {230+75}				UT: 440 {325+115}/LT: 305 {230+75}				
	Z axis	mm	UT: 920 LT: 875		UT: 1,570 LT: 1,525	UT: 2,070 LT: 2,025	UT: 920 LT: 875		UT: 1,570 LT: 1,525	UT: 2,070 LT: 2,025	UT: 1,090 LT: 1,025		UT: 2,090 LT: 2,025	UT: 3,090 LT: 3,025	UT: 1,090 LT: 1,025		UT: 2,090 LT: 2,025	UT: 3,090 LT: 3,025	
	C axis		–				360°				–				360°				
SPINDLE	Speed range	min-1	14 to 3,200 [12 to 2,800]								12 to 2,800 [12 to 2,400]								
	Speed ranges		4 ranges (2 gear ranges x 2 VAC motor coil switched ranges)								Infinitely variable × Auto 4-speed								
	Spindle nose		JIS A2-8 [JIS A2-11]								JIS A2-11 [JIS A2-11]								
	Spindle bore dia	mm (in.)	ø90 (3.54) [ø110 (4.33)]								ø110 (4.33) [130 (5.12)]								
	Front bearing dia	mm (in.)	ø130 (5.12) [ø150 (5.91)]								ø150 (5.91) [180 (7.09)]								
TURRET (NC)	Type		UT: V12 / LT: V10				UT: M-V12 / LT: VDI-V10				UT: V12 / LT: V10				UT: M-V12 / LT: VDI-V10				
	No. of tools		UT: V12 / LT: V10				UT: 12 (L, M) / LT: 10				UT: 12 / LT: 10				UT: 12 (L, M) LT: 10				
	OD tool shank	mm (in.)	25 x 25 (1 x 1)								32 x 32 (1.26 x 1.26)								
	ID tool shank dia	mm (in.)	ø50 (1.97)								ø63 (2.48)								
	Indexing time	sec.	0.3/index (non-lift)								0.7/index (lift-up)								
MILLING TOOL	Spindle Speed	min-1 (rpm)	–				40 to 2,000				–				40 to 2,000				
FEEDRATES	Rapid traverse	mm/min (ipm)	X: 15,000 (591) Z: 20,000 (787)				X: 15,000 (591) Z: 20,000 (787) C: 150 min-1 (rpm)				X: 15,000 (591) / Z: 20,000 (787)				X: 15,000 (591) / Z: 20,000 (787) / C: 100 min-1 {rpm}				
	Cutting feedrate	mm/rev (ipr)	X, Z: 0.001 to 1,000.000 (0.0001 to 40.0000)								X, Z: 0.001 to 1,000.000 (0.0001 to 40.0000)								
TAILSTOCK	Quill diameter	mm (in.)	–	ø120 (4.72)			–	ø120 (4.72)			–	ø130 (5.12)			–	ø130 (5.12)			
	Quill bore taper		–	MT 5 (built-in)			–	MT 5 (built-in)			–	MT 5 (built-in)			–	MT 5 (built-in)			
	Quill travel	mm (in.)	–	170 (6.69)			–	170 (6.69)			–	170 (6.69)			–	170 (6.69)			
MOTOR	Spindle (30 min/cont)	kW (hp)	Wide range VAC 30/22 (40/30) 37*/30 (50/40) (30 min/cont)								VAC 37/30 (50/40) (30 min/cont), 45/37*(60/50) (30 min/cont)								
	Milling tool (30 min/cont)	kW (hp)	–				VAC 5.5/3.7 (7/5) (30 min/cont)				–				VAC 7.5 / 5.5 (10/7) (30 min/cont)				
	Axis drives	kW (hp)	XA: 3.6 (4.8); XB: 3.0 (4); ZA/ZB: 4.2 (5.6)								XA: 3.6 (4.8), XB: 3.0 (4), ZA/ZB: 4.6 (6.13),								
	Coolant pump	kW	Side discharge: 0.4 × 2, rear discharge: 0.4 + 0.8								Side discharge: 0.4 × 2, rear discharge: 0.4 + 0.8								
MACHINE SIZE	Height	mm	2590								3042		3040	2822	3042		3040	2822	
	Floor space (including tank)	mm×mm	4,535 × 2,872		5,185 × 3,040	5,935 × 3,095	4,535 × 2,872	5,185 × 3,040		5,935 × 3,095	4,750 × 3,340		6,060 × 3,355	8,020 × 3,005	4,750 × 3,340		6,060 × 3,355	8,020 × 3,005	
	Weight (w/CNC system)	kg (lb)	9,000 (19,800)	9,500 (20,900)	14,000 (30,800)	15,800 (34,760)	96,00 (21,120)	10,100 (22,220)	14,600 (32,120)	16,400 (36,080)	16,000 (35,200)	16,500 (36,300)	20,700 (45,540)	23,000 (50,600)	16,500 (36,300)	17,000 (37,400)	21,200 (46,400)	23,500 (51,700)	
CNC			OSP-P300L								OSP-P300L								

UT: Upper Turret LT: Lower Turret []: Big-bore spindle * High-power motor