

SPECIFICATIONS		ES-L6 //	LS-L8 //	ES-L10 //
CAPACITY	Number of Controlled Axes	2	2	2
	Swing Over Covers	mm (in) Ø550 (Ø21.65)	Ø550 (Ø21.65)	Ø550 (Ø21.65)
	Swing Over Saddle	mm (in) Ø340 (Ø13.38)	Ø450 (Ø17.7)	Ø520 (Ø20.47)
	Max Turning Dia	mm (in) Ø210 (Ø8.27)	Ø210 (Ø8.27)	Ø310 (Ø12.20)
	Max Turning Length	mm (in) 280 (11.02)	500 (19.68)	500 (19.68)
	Max X Travel	mm (in) 155 (105 + 50) (6.10 [4.13 + 1.97])	155 (135 + 20) (6.10 [5.3 + 0.78])	220 (155 + 65) (8.10 [5.3 + 0.78])
Max Z Travel	mm (in) 320 (12.6)	520 (20.47)	520 (20.47)	
SPINDLES	Spindle Nose Type	JIS 140mm Flat	JIS A2-6	JIS A2-8
	Spindle Bore	mm (in) Ø53 (Ø2.09)	Ø62 (Ø2.44)	Ø80 (Ø3.15)
	Total Speed Range - RPM	min <sup>-1</sup> 133-6,000	100 - 4,200	25-3,000
	Power / [Torque lbf-ft] 10 min	kW (hp) 11 (15) / [58 lbf-ft]	-----	-----
	Power / [Torque lbf-ft] 30 min	kW (hp) 7.5 (10) / [46 lbf-ft]	11 (15) / [74.0 lbf-ft]	15 (20) / [420lbf-ft] low range
	Power / [Torque lbf-ft] cont	kW (hp) 5.5 (7.5) / [34 lbf-ft]	7.5 (10) / [xx lbf-ft]	11 (15) / [308 lbf-ft] low range
	Max Weight, wo-tail / w-tail	( 110 / 220 )	(176 / 400)	(264 / 440)
	Spindle Bearing ID	mm (in) Ø100 (Ø3.94)	Ø100 (Ø3.94)	Ø120 (Ø4.72)
	Number of Speed Ranges	1 - Infinitely Variable	1 - Infinitely Variable	2 - Infinitely Variable
	Included 3-Jaw Hyd Chuck	Ø 6 inch hollow 3-Jaw	8 inch hollow 3-Jaw	10 inch hollow 3-Jaw
Draw Tube Assy ID	mm (in) Ø 43 (Ø1.69)	Ø 52 (Ø2.04)	Ø70 (Ø2.75)	
TURRETS	Turret Type	V12 (NC Servo )	V12 (NC Servo )	V12 (Hydraulic)
	No of Tool Stations	12	V12	12
	Tool Clamping Method	Inch - slotted - Bolt clamp	Inch - slotted - Bolt clamp	Inch - slotted - Bolt clamp
	Index Time Of Turret	sec/sta 1.1 sec	1.1 sec	1.1 sec
	Size of OD Turning Tool	inch 1" square	1" square	1" square
Size of ID Turning Tool	mm (in) Ø31.8 (Ø1.25)	Ø38.1 (Ø1.50)	Ø38.1 (Ø1.50)	
SERVOS	Rapid Traverse	m/min(ipm) X: 20 / Z: 25 ( X: 787 / Z:984 )	X: 20 / Z: 25 ( X: 787 / Z:984 )	X: 20 / Z: 25 ( X: 787 / Z:984 )
	Min / Max feedrate	mm (in) 0.01 - 1,000 (0.0001 - 39.37)	0.01 - 1,000 (0.0001 - 39.37)	0.01 - 1,000 (0.0001 - 39.37)
	Servo Power, Z / X	kW (hp) Z: 2.0 (2.7 hp) / X:2.0 (2.7 hp)	Z: 2.0 (2.7 hp) / X:2.0 (2.7 hp)	Z: 3.0 (4.0 hp) / X:2.0 (2.7 hp)
	Z Axis Thrust	(lbf) ( 836 lbf )	( 836 lbf )	( 1276 lbf )
TAILSTOCK	Quill Type and Taper	M.T. No.4, Dead Quill	M.T. No.5, Dead Quill	M.T. No.5, Dead Quill
	Quill Diameter	mm (in) Ø55 (Ø2.17)	Ø90 (Ø3.54)	Ø90 (Ø3.54)
	Quill Stroke	mm (in) 80 (3.15)	100 (3.94)	100 (3.94)
	Body Positioning	Clamping nuts / dovetail, Man.pos.	Clamping nuts / V-flat Man.pos.	Clamping nuts / Man.pos., dove tail
Max thrust	kgf(lbf) 200 (440 lbf)	500 (1,210)	500 (1,210)	
ELECTRICAL	Power Requirement	AC 200V +/- 10%, 50/60 Hz +/- 2%	AC 200V +/- 10%, 50/60 Hz +/- 2%	AC 200V +/- 10%, 50/60 Hz +/- 2%
	CNC System	OSP-U10L	OSP-U10L	OSP-U10L
	Display	10.4 Inch, TFT, Color, Animation	10.4 Inch, TFT, Color, Animation	10.4 Inch, TFT, Color, Animation
	Operators Console	Full Console	Full Console	Full Console
Power Consumption	kVA 12.7 continuous	20.2 continuous	20.2 KVA continuous	
FLUIDS	Coolant Tank Reservoir	lit (gal) 100 liters (26.4 )	100 liters (26.4 )	180 liters (47 )
	Standard Coolant Pump	kW (hp) 0.19 (0.25)	0.19 (0.25)	0.19 (0.25)
	Hydraulic Reservoir	lit (gal) 22 (5.8 )	22 (5.8 )	22 (5.8 )
	Hydraulic Pump	kW (hp) 1.5 (2)	1.5 (2)	1.5 (2)
Lubrication Reservoir	lit (gal) 3 (0.79)	3 (0.79)	3 (0.79)	
ACCURACY	Positioning X JIS method	mm (in) 0.015 (0.00059)	0.015 (0.00059)	0.015 (0.00059)
	Positioning Z JIS method	mm (in) 0.025 (0.00098)	0.025 (0.00098)	0.025 (0.00098)
	Repeatability X JIS method	mm (in) _0.0020 (_0.000080)	_0.0020 (_0.000080)	_0.0020 (_0.000080)
	Repeatability Z JIS method	mm (in) _0.003 (_0.00012)	_0.003 (_0.00012)	_0.003 (_0.00012)
SIZE	Machine Height	mm (in) 1710 (67.3)	1710 (67.3)	1793 (70.6)
	Floor Space WxD	mm (in) 1910 x 1718 (75.19 x 67.63)	2170 x 1700 (85.4 x 66.9)	2550 x 1700 (100.4 x 76.9)
	Net Weight	kg(lbs) 2,800 (6,160)	3,700 (8,140)	3,700 (8,377)