

FCL-250S

Single Spindle / Single Turret CNC Precision Lathe





FCL-250S SPECIFICATION:

MODEL		FCL- 250S		FCL- 250SL		FCL- 300S	
Capacity	No.of axis	STD: 2-axis / OPT : 3 axis (C axis)		STD: 2-axis / OPT : 3 axis (C axis)		STD: 2-axis / OPT : 3 axis (C axis)	
	Swing over bed	Ø 600mm(23.62")		Ø 600mm(23.62")		Ø 630mm(24.8")	
	Max. turning dia	Ø 300mm(11.81")		Ø 300mm(11.81")		Ø 520mm(20.47")	
	Working length	455mm (17.91")		720mm (28.34")		700mm (27.56")	
Spindle	Spindle nose bar internal taper	ASA A2-6 MT No.6		ASA A2-6 MT No.6		ASA A2-8 Ø 96mm Taper 1/ 20	
	Spindle bore	STD: Ø 61mm(2.4") OPT: Ø 77mm(3.03")		STD: Ø 61mm(2.4") OPT: Ø 77mm(3.03")		Ø 90mm(3.54")	
	Bar capacity	STD: Ø 51mm(2.0") OPT: Ø 65mm(2.56")		STD: Ø 51mm(2.0") OPT: Ø 65mm(2.56")		Ø 77mm(3")	
	Range of spindle speed	25 ~ 4200 rpm (8")		25 ~ 4200 rpm (8")		STD: 25-3500 rpm(10") OPT : 25-2800 rpm(12")	
	Living tools speed	OPT : 25-4000rpm		OPT : 25-4000rpm		OPT : 25-4000rpm	
	No.of spindle speed	infinitely variable		infinitely variable		infinitely variable	
Chuck	Hydraulic chuck	Ø 210mm(8")		Ø 210mm(8")		STD: Ø 254mm(2.4") OPT: Ø 77mm(3.03")	
Turret	Tool station (Random)	STD:Hyd LS-240-12 OPT:SERVO LS -240-12		STD:Hyd LS-240-12 OPT:SERVO LS -240-12		STD:Hyd LS-240-12 OPT:SERVO LS -240-12	
	O.D.tooling	25x 25mm		25x 25mm		25x 25mm	
	I.D.tooling	Ø 40mm(1.57")		Ø 40mm(1.57")		Ø 40mm(1.57")	
Cross slide (X-axis) & Carriage (Z-axis)	X-axis travel	185mm (7.28")		185mm (7.28")		278mm (10.94")	
	Z-axis travel	465mm (18.3")		800mm (31.49")		720mm (28.35")	
	Rapid traverse speed (X-axis)	20m / min (787ipm)		20m / min (787ipm)		20m / min (787ipm)	
	Rapid traverse speed (Z-axis)	20m / min (787 ipm)		20m / min (787 ipm)		20m / min (787 ipm)	
	Cutting feed rate (Both-axis)	0.001- 500 mm / rev.		0.001- 500 mm / rev.		0.001- 500 mm / rev.	
	Dia.of ball screw (X-axis)	Ø 32mm(1.26") P10		Ø 32mm(1.26") P10		Ø 32mm(1.26") P10	
	Dia.of ball screw (Z-axis)	Ø 36mm(1.42") P10		Ø 36mm(1.42") P10		Ø 36mm(1.42") P10	
Motor	Main spindle (continuous)	α P22i 750/ 6000 rpm	AC 11kw (15HP)	α P22i 750/ 6000 rpm	AC 11kw (15HP)	α P30i 575/ 6000 rpm	AC 15kw (20 HP)
	Main spindle (30 min.rating)		AC 15kw (20HP)		AC 15kw (20HP)		AC 18.5kw (25 HP)
	X-axis	1.6 kw (2.15HP)	α 8iB / 3000 1.6 kw (2.15HP)	1.6 kw (2.15HP)	α 8iB / 3000 1.6 kw (2.15HP)	1.6 kw (2.15HP)	α 12iB / 3000 3kw (4HP)
	Z-axis	1.6 kw (2.15HP)	α 8i / 3000 1.6 kw (2.15HP)	1.6 kw (2.15HP)	α 8i / 3000 1.6 kw (2.15HP)	1.6 kw (2.15HP)	α 12i / 3000 3kw (4HP)
	Hydraulic oil pump	1.5kw (2HP)		1.5kw (2HP)		1.5kw (2HP)	
	Coolant pump	750w (1HP)		750w (1HP)		750w (1HP)	
Programmable Tailstock	Quill dia.	Ø 75mm (2.95")		Ø 75mm (2.95")		Ø 90mm (3.54")	
	Quill stroke	80mm (3.15")		80mm (3.15")		100mm (3.94")	
	Taper of center	MT NO.4		MT NO.4		MT NO.5	
	Tailstock travel	430mm (16.93)		650mm (27.36")		625mm (24.6")	
Tank Capacity	Hydraulic Tank	60 Liter		60 Liter		60 Liter	
	Coolant Tank	80 Liter		100 Liter		100 Liter	
Measurement	Floor space(Lx W)	3550mm x 2000mm (140" x 78.7")		4000mm x 2100mm (157.5" x 82.7")		4000mm x 2100mm (157.5" x 82.7")	
	Hight	2000mm (78.7")		2000mm (78.7")		2000mm (84")	
	G.Weight	4550kgs / 5250kgs		5210kgs/ 6150kgs		5320kgs / 6260kgs	

Standard Accessories:

- 1.3 bar-750 w high pressure coolant pump
- 2.80 liter capacity cooling tank (FCL-250S)
- 3.100 liter capacity cooling tank (FCL-250SL / 300S)
- 4.Hydraulic turret 12-position, type:LS-240
- 5.Auto. lubrication system
- 6.Tool & tool box
- 7.Work lamp
- 8.M30 program stop light
- 9.Hydraulic unit
- 10.Heat exchanger unit of electric box cooling
- 11.Chip conveyor and bucket
- 12.Hydraulic tailstock

Optional Accessories:

- 1.C.E.electric control
- 2.Auto tool setter measurement
- 3.C-axis contour capability
 - a.Duplomatic SMBR radial, VDI, 12-position power turret with Fanuc alpha SERVO motor (Excluding rotating tool holder and tools)
 - b.High resolution magnetic puls coder incorporated into main AC spindle motor for precision contour / index control
 - c.Hydraulic disk brake for locking and stabilization during milling and contouring
- 4.Main power transformer
- 5.Auto door & Safety Switch
- 7.Auto parts catcher
- 8.Prevent crash install of each axes. (Safety equipment)
- 9.Bar feeder interface
- 10.Parts cut off detector
- 11.Larger spindle motor
- 12.Larger hydraulic chuck
- 13.Duplomatic SM-16, SM-20 VD1. Servo Turret



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