

FCL - 450TMS

Twin spindle / Single Turret CNC Precision Lathe



FCL- 450TMS SPECIFICATION:

MODEL		FCL- 450TMS		FCL- 550TMS		FCL- 580TMS	
Capacity	No.of axes	STD: 3-axis / OPT : 5 axis (C-axis)		STD:3-axis / OPT : 5axis (C axis)		STD:3-axis / OPT : 5axis (C axis)	
	Swing over bed	Ø 600mm(23.62")		Ø 650mm(25.59")		Ø 650mm(25.59")	
	Max. turning dia	Ø 245mm(9.64")		Ø 490mm(19.29")		Ø 470mm(18.5")	
	Working length	260mm (10.23")		500mm (19.68")		Ø 470mm(18.5")	
Spindle	Spindle nose bar internal taper	L : ASA A2-5 R : ASA A2-5		L : ASA A2-6 R : ASA A2-5		L : ASA A2-8 R : ASA A2-6	
	Spindle bore	Ø 56mm(2.2")	Ø 56mm(2.2")	Ø 61mm(2.4")	Ø 56mm(2.2")	Ø 90mm(3.54")	Ø 61mm(2.4")
	Bar capacity	Ø 45mm(1.7")	Ø 45mm(1.7")	Ø 51mm(2.0")	Ø 45mm(1.7")	Ø 77mm(3")	Ø 51mm(2.0")
	Range of spindle speed	60 ~ 6000 rpm	60 ~ 6000 rpm	45 ~ 4200 rpm	60 ~ 6000 rpm	35~3500 rpm	42~4200 rpm
	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 169mm(6")	Ø 169mm(6")	Ø 210mm(8")	Ø 169mm(6")	Ø 254mm(10")	Ø 210mm(8")
Turret	Tool station (Random)	STD:Hyd LS-200-12T OPT:SERVO LS -200-12T		STD:Hyd LS-240-12T OPT:SERVO LS -240-12T		STD:Hyd LS-240-12T OPT:SERVO LS -240-12T	
	O.D.tooling	20x 20mm		20x 20mm		25x 25mm	
	I.D.tooling	Ø 32mm(1.26")		Ø 32mm(1.26")		Ø 40mm(1.57")	
Cross slide (X-axis) & Carriage (Z-axis, B-axis)	X-axis travel	165mm (6.5")		280mm (11.02")		280mm (11.02")	
	Z-axis travel	310mm (12.2")		560mm (22.05")		540mm (21.26")	
	B-axis travel	265mm(10.43")		500mm (19.68")		470mm(18.5")	
	Rapid traverse speed (X-axis)	30m / min (1180ipm)		30m / min (1180ipm)		30m / min (1180ipm)	
	Rapid traverse speed (Z-axis)	30m / min (1180 ipm)		30m / min (1180 ipm)		30m / min (1180 ipm)	
	Rapid traverse speed (B-axis)	20m / min (787ipm)		20m / min (787ipm)		20m / min (787 ipm)	
	Cutting feed rate (X and Z axis)	0.001- 500 mm / rev.		0.001- 500 mm / rev.		0.001- 500 mm / rev.	
Motor	Main spindle (continuous)	α P12i 1500- 6000 rpm	5.5kw (7.5HP)	α P18i 1500- 6000 rpm	9kw (12HP)	α P22i 750-6000 rpm	11kw (15 HP)
	Main spindle (30 min.rating)		7.5kw (10HP)		11kw (5HP)		15kw (20HP)
	Sub Spindle (Continuous)	α 6i 1500- 6000 rpm	5.5kw (7.5HP)	α 6i 1500- 6000 rpm	5.5kw (7.5HP)	α 8i 1500- 6000 rpm	7.5kw (10HP)
	Sub Spindle (30 min.Rating)		7.5kw (10HP)		7.5kw (10HP)		11kw (15 HP)
	X-axis	α 8Bi / 3000 1.6 kw (2.15HP)		α 8Bi / 3000 1.6 kw (2.15HP)		α 12Bi / 3000 3kw (4HP)	
	Z-axis	α 8i / 3000 1.6 kw (2.15HP)		α 8i / 3000 1.6 kw (2.15HP)		α 12i / 3000 3kw (4HP)	
	B-axis	α 8i / 3000 1.6 kw (2.15HP)		α 8i / 3000 1.6 kw (2.15HP)		α 8i / 3000 1.6 kw (2.15HP)	
	Hydraulic pump	1.5kw (2HP)		1.5kw (2HP)		1.5kw (2HP)	
	Coolant pump	750w (1HP)		750w (1HP)		750w (1HP)	
	Tank Capacity	Hydraulic Tank	60 Liter		60 Liter		60 Liter
Coolant Tank		100 Liter		100 Liter		100 Liter	
Measurements	Floor space(Lx W)	3750mm x 2000mm		4000mm x 2100mm		4000mm x 2100mm	
	Height	2000mm		2130mm		2130mm	
	Weight (Nw / GW)	4550kg / 5470kg		5210kg / 6600kg		5700kg/ 6700kg	

Standard Accessories:

- 1.High pressure Cooling system (3 Bar)
- 2.100 liter capacity cooling tank
- 3.Hydraulic turret 12-position
- 4.Auto.lubrication system
- 5.Tool Kit
- 6.Work light
- 7.Triocolor Alarm Light
- 8.Hydraulic unit
- 9.Heat exchanger unit for electric box cabinet
- 10.Chip conveyor and bucket

Optional Accessories:

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