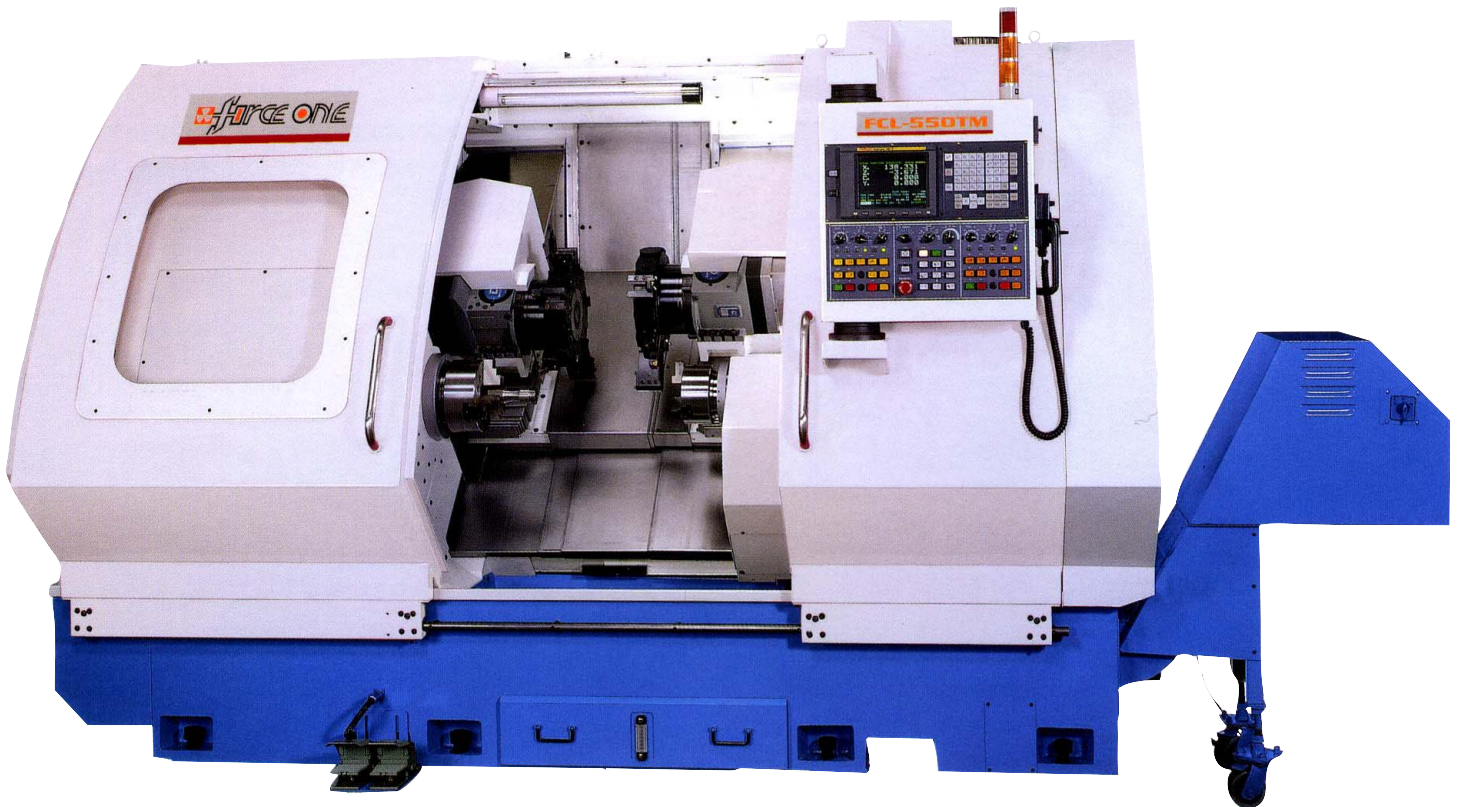


# FCL-550TM

## Twin spindle / Twin Turret CNC Precision Lathe



**FCL- 550TM SPECIFICATION:**

MODEL		FCL- 450TM		FCL- 550TM		FCL- 580TM	
Capacity	No.of axes	STD: 5-axis / OPT : 7 axis (C-axis)		STD: 5-axis / OPT : 7axis (C axis)		STD: 5-axis / OPT :7axis (C axis)	
	Swing over bed	Ø 620mm( 24.41")		Ø 620mm( 24.41")		Ø 620mm( 24.41")	
	Max. turning dia.	Ø 440mm( 17.32" )		Ø 440mm( 17.32" )		Ø 440mm( 17.32" )	
	Working length	310mm ( 12.20" )		290mm ( 11.41" )		Ø 270mm( 10.62" )	
Spindle	Spindle nose bar internal taper	L : ASA A2-5 R : ASA A2-5		L : ASA A2-6 R : ASA A2-5		L : ASA A2-6 R : ASA A2-6	
	Spindle bore	Ø 56mm( 2.2")	Ø 56mm( 2.2")	Ø 61mm( 2.4")	Ø 56mm( 2.2")	Ø 77mm( 3")	Ø 61mm( 2.4")
	Bar capacity	Ø 45mm( 1.7")	Ø 45mm( 1.7")	Ø 51mm( 2.0")	Ø 45mm( 1.7")	Ø 65mm( 2.6")	Ø 51mm( 2.0")
	Range of spindle speed	60 ~ 6000 rpm	60 ~ 6000 rpm	60 ~ 4200 rpm	60 ~ 6000 rpm	60 ~ 4200 rpm	60 ~ 4200 rpm
	Living tools speed	OPT : 25-4500rpm		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 ( L / R )	Tool station (Random)	Servo V12 160x 2		Servo V12 160x 2		Servo V12 160x 2	
	O.D.tooling	20x 20mm		20x 20mm		20x 20mm	
	I.D.tooling	Ø 32mm( 1.26")		Ø 32mm( 1.26")		Ø 32mm( 1.26")	
Cross slide ( X-axis ) & Carriage ( Z-axis, B-axis )	X-axis travel	245mm ( 9.64")		245mm ( 9.64")		245mm ( 9.64")	
	Z-axis travel	350mm ( 13.97")		355mm ( 13.97")		350mm ( 13.97")	
	B-axis travel	520mm ( 20.47")		500mm ( 19.68")		500mm ( 19.68")	
	Rapid traverse speed ( X-axis )	20m / min ( 787ipm)		20m / min ( 787ipm)		20m / min ( 787ipm)	
	Rapid traverse speed ( Z-axis )	20m / min ( 787ipm)		20m / min ( 787ipm)		20m / min ( 787ipm)	
	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 750 / 6000 rpm	9kw ( 12HP)	α P22i 1500/ 6000 rpm	11kw ( 15 HP)
	Main spindle ( 30 min.rating)		7.5kw ( 10HP)		11kw ( 15HP)		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)
	XM. Xs-axis	α 8Bi / 3000 1.6 kw ( 2.15HP)x 2		α 8Bi / 3000 1.6 kw ( 2.15HP)x 2		α 12Bi / 3000 3kw ( 4HP) x 2	
	ZM. Zs-axis	α 8i / 3000 1.6 kw ( 2.15HP)x 2		α 8i / 3000 1.6 kw ( 2.15HP)x 2		α 8i / 3000 1.6kw ( 2.15HP) x 2	
	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)x 2		750w ( 1HP)		750w ( 1HP)x 2	
	Tank Capacity	Hydraulic Tank	65 Liter		60 Liter		60 Liter
Coolant Tank		100 Liter		100 Liter		100 Liter	
Measurements	Floor space( Lx W )	4000mm x 2100mm		4000mm x 2100mm		4000mm x 2100mm	
	Hight	2130mm		2130mm		2220mm	
	Weight (Nw / GW)	5700kgf / 6700kgf		5750kgf / 6750kgf		5850kgf / 6850kgf	

**Standard Accessories:**

- 1.High pressure Cooling system ( 3 Bar)
- 2.100 liter capacity cooling tank
- 3.Servo 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-16 radial, VDI 30, 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