

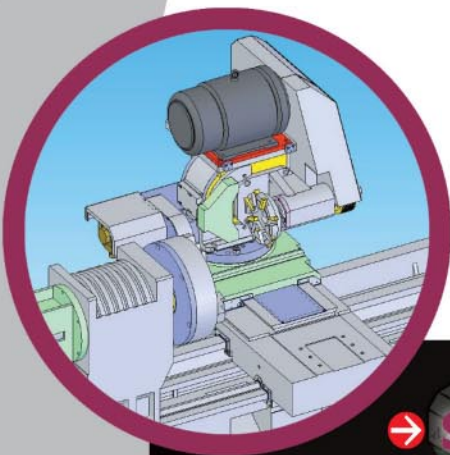


Special Purpose CNC Lathe



SCM-3000/4000/5000/6000/7000
LC-40 Series/LC-50 Series/LC-60 Series

Special Purpose CNC Lathe



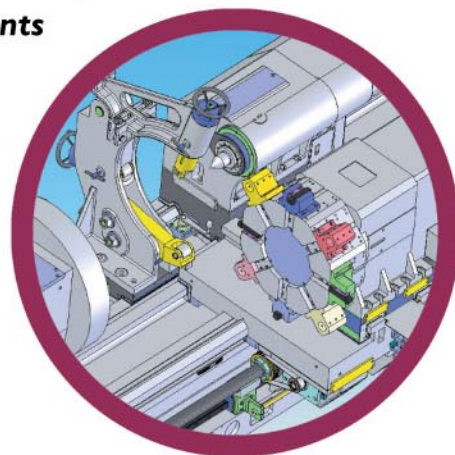
➔ **SCM-7000** CNC Screw Cutting Machine

Order-made.
Actual Specifications Subject to Individual
Requirments.

LC-67280G / SCM-7000

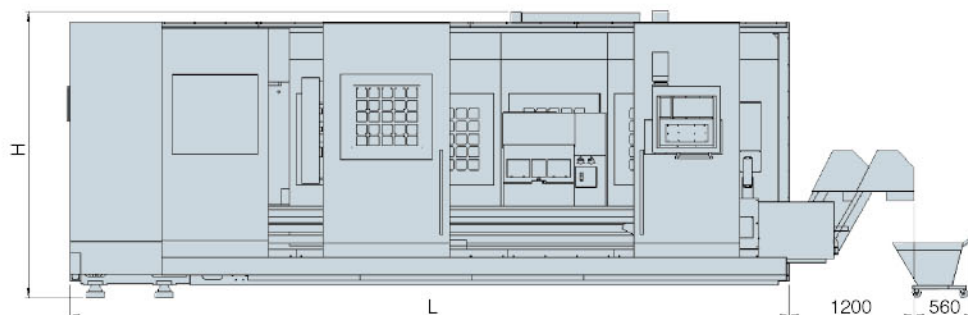
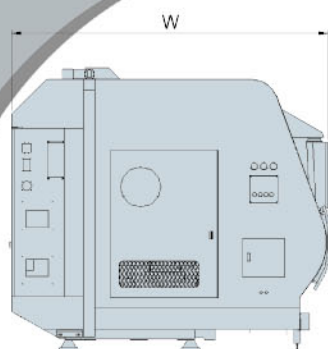
← LC-67280G Flat-Bed CNC Lathes

Order-made.
*Actual Specifications Subject to
Individual Requirments*



Dimensions

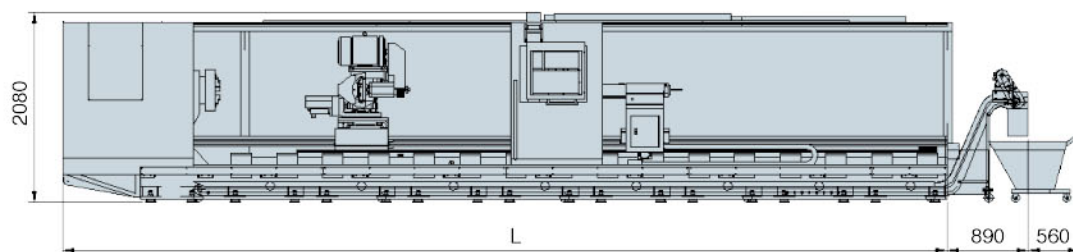
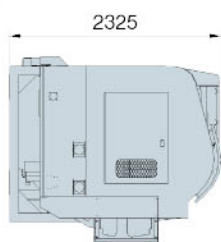
LC Series



Model	40 Series	50 Series	60 Series
H	2150	2600	2600
W	2700	3000	3000

Model	4080	40120	40160	40200	40240	40280	40320	40360	40400	40440	40480
	5080	50120	50160	50200	50240	50280	50320	50360	50400	50440	50480
	6080	60120	60160	60200	60240	60280	60320	60360	60400	60440	60480
L	5800	6800	7800	8800	9800	10800	11800	12800	13800	14800	15800

SCM Series



Model	SCM-3000	SCM-4000	SCM-5000	SCM-6000	SCM-7000
L	5670	6670	7670	8670	9670

Specifications

Model Item		LC-40 Series	LC-50 Series	LC-60 Series
		LC-40 Series 4080, 40120, 40160 40200, 40240, 40280 40320, 40360, 40400 40440, 40480	LC-50 Series 5080, 50120, 50160 50200, 50240, 50280 50320, 50360, 50400 50440, 50480	LC-60 Series 6080, 60120, 60160, 60200, 60240, 60280 60320, 60360, 60400 60440, 60480
Capacity	Swing over bed	1010 mm	1275 mm	1550 mm
	Swing over cross slide	640 mm	910 mm	1100 mm
	Distance between centers	2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000 up to 20000 mm		
Bed	Width	1145 mm (45")		
Headstock	Spindle nose	B: A2-11 / C, D, E, F: A2-15 / G, H: A2-20 / I, J: A2-28 / K: A2-32		
	Spindle bore (mm)	B: ϕ 132.5 / C: ϕ 152 / D: ϕ 176 / E: ϕ 235 / F: ϕ 255 / G: ϕ 318 / H: ϕ 360 / I: ϕ 410 / J: ϕ 535 / K: ϕ 610		
	Spindle step	Auto 4 steps		
	Spindle speed (rpm)	B: 2000 / C: 1200 / D: 1000 / E: 750 / F: 600 / G: 500 / H: 400 / I: 300 / J: 250 / K: 220		
	Spindle bearing diameter (mm)	B: ϕ 180 / C: ϕ 220 / D: ϕ 240 / E: ϕ 280 / F: ϕ 305 / G: ϕ 381 / H: ϕ 457 / I: ϕ 480 / J: ϕ 610 / K: ϕ 700		
Turret	No. of tools	4 / 6 / 8 / 12 position, or Twin turret (Opt.)		
	Tool post	Auto Indexing / Direct Mount / VDI (Live Tool Opt.)		
	Square tool holder	32 x 32 mm		
	Tool shank size	ϕ 50 mm (Std.), ϕ 60 mm (Opt.) / VDI 50 (Std.), VDI 60 (Opt.)		
Travel	Rapid traverse	X: 6 m/min Z: 8 m/min		
	Cutting speed	X: 0.001-400 mm/rev Z: 0.001-400 mm/rev		
Tailstock	Quill spindle type	Rotary tailstock spindle		
	Tailstock quill travel	250 mm		
	Tailstock quill diameter	ϕ 250 mm		
	Tailstock spindle taper	MT#6 (MT#7 Opt.)		
Motor	Spindle motor (30 min/cont.)	22 / 26 kW (30 / 37 kW Opt.)		30 / 37 kW (37 / 45 kW Opt.)
	X-axis servo motor	3 kW		4 kW
	Z-axis servo motor	4 kW		7 kW
	Coolant pump motor	0.98 kW		
	Hydraulic motor	3.8 kW		
	C-axis motor	2.1 kW		3 kW
Weight		LC-4080: 22000 kg LC-40120: 24000 kg LC-40160: 26000 kg LC-40200: 28000 kg LC-40240: 30000 kg LC-40280: 32000 kg LC-40320: 34000 kg LC-40360: 36000 kg	LC-5080: 23000 kg LC-50120: 25000 kg LC-50160: 27000 kg LC-50200: 29000 kg LC-50240: 31000 kg LC-50280: 33000 kg LC-50320: 35000 kg LC-50360: 37000 kg	LC-6080: 24000 kg LC-60120: 26000 kg LC-60160: 28000 kg LC-60200: 30000 kg LC-60240: 32000 kg LC-60280: 34000 kg LC-60320: 36000 kg LC-60360: 38000 kg

■ All data subject to change without notice.

■ All the specifications are listed with the FANUC CNC system.

Standard Accessories:

1. Coolant system
2. Auto lubrication
3. Working lamp
4. Safe guarding
5. Tools and tool box
6. Various manuals
7. Programmable tailstock
8. Rotary tailstock spindle
9. Tool holders (direct mounting type)
10. Hydraulic turret
11. Control system FANUC 0i/TD

Optional Accessories:

1. Steady rest
2. Follow rest
3. Chip conveyor
4. C-axis (C.S axis without gear box / C.F axis with gear box)
5. Spindle 5° indexing
6. Power turret
7. Tool holder (VDI type / live tool)
8. Twin turret
9. Manual guide *i* (18i/T / 21i/T)
10. Rear chuck adaptor
11. Linear scale
12. C-axis with angular scale

Specifications

Item		Model	SCM-3000	SCM-4000	SCM-5000	SCM-6000	SCM-7000
Spindle	Cutting diameter		50 mm~250 mm				
	Chuck size		18"				
	Spindle bore		85 mm				
Milling	Spindle tilting		40° ~ 40°				
	Spindle taper		NT-50				
	Spindle speed range		60 ~ 1500 rpm				
	Spindle motor (30 min/cont.)		7.5 / 11 kW				
	Tool diameter		280 mm (contain knife)				
Head	Cross travel (X-axis)		230 mm				
	Longitudinal travel (Z-axis)		3000 mm	4000 mm	5000 mm	6000 mm	7000 mm
	Rapid traverse		X: 10 m/min Z: 6 m/min				
Tailstock	Tailstock quill travel		210 mm				
	Tailstock quill diameter		80 mm				
	Tailstock spindle taper		MT#5				
Power	Servo motor (X-axis)		3 kW				
	Servo motor (Z-axis)		4 kW				
	A-axis motor		3 kW				
	C-axis motor		3 kW				
Steady rest	Clamping diameter		50 mm ~ 250 mm				
Weight			10440 kg	11470 kg	12500 kg	13530 kg	14560 kg

■ All data subject to change without notice.

■ All the specifications are listed with the FANUC CNC system.

Standard Accessories:

1. Coolant system
2. Auto lubrication
3. Working lamp
4. Safe guarding
5. Tools and tool box
6. Various manuals
7. Control system FANUC 0i-TD

Optional Accessories:

1. Chip conveyor
2. Programmable tailstock
3. Air-con, system for control cabinet
4. FANUC HPCC
5. A-axis (cutting spindle rotating angle for +40 degree to -40 degree)

CNC Control Specs

■ CNC system type

O: Std. △: Opt. -: Nil

Type	Model	LC-40 ~ LC-80 series	SCM-3000 ~ 8000
Fanuc 0i-TD		○	
Fanuc 31i-B		△	
Siemens 840D		△	
Siemens 828D		△	

■ Fanuc specifications

O: Std. △: Opt. -: Nil

	Item	Specifications	0iTD	31i-B
Display unit	8.4" color LCD		○	-
	10.4" color LCD		△	○
	Data Server with 2GB CF card		△	△
Function	NC program memory	1280M (512KB)	○	○
	Conversational programming	Manual guide 0i 0iTD	○	-
	with graphic function	Manual guide i 31i-B / 0iTD (10.4" LCD)	△	○
	No. of tool offset sets		64	99
	No. of variable command sets		500	500
	Work coordinate system	G54~G59	○	○

■ Siemens specifications

O: Std. △: Opt. -: Nil

	Item	Specifications	828D	840D
Operator Panel	10.4" color LCD		○	○
	15.1" color LCD		-	△
	Machine panel MCP483C		○	○
	TCU without hard disk	CF card	○	○
	PCU 50 with hard disk		-	△
	Ethernet		○	○
Function	ShopTurn programming		△	△
	Automatic residual material detection		△	△
	Transmit / Peripheral surface transformation		△	△
	Measuring cycles for drilling/milling and turning		△	△



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