

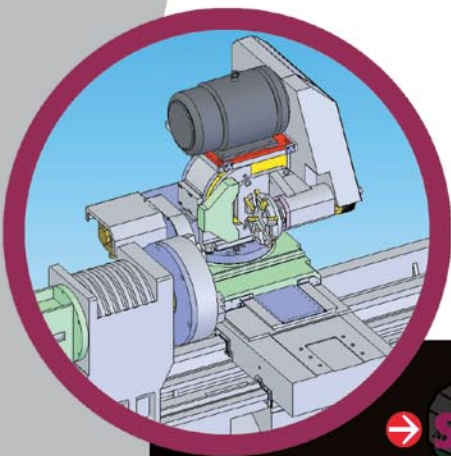
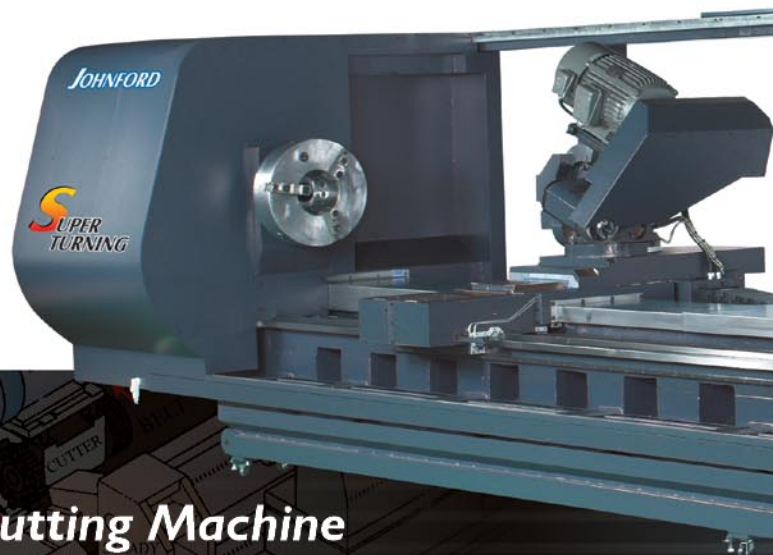


Special Purpose CNC Lathe



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

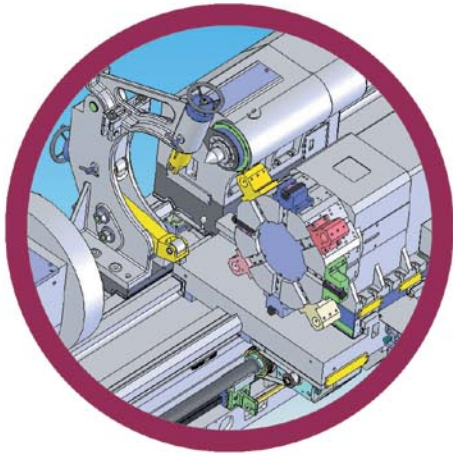
Special Purpose CNC Lathe



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

Order-made.
Actual Specifications Subject to Individual
Requirments.

SCM-7000 / LC-50120H



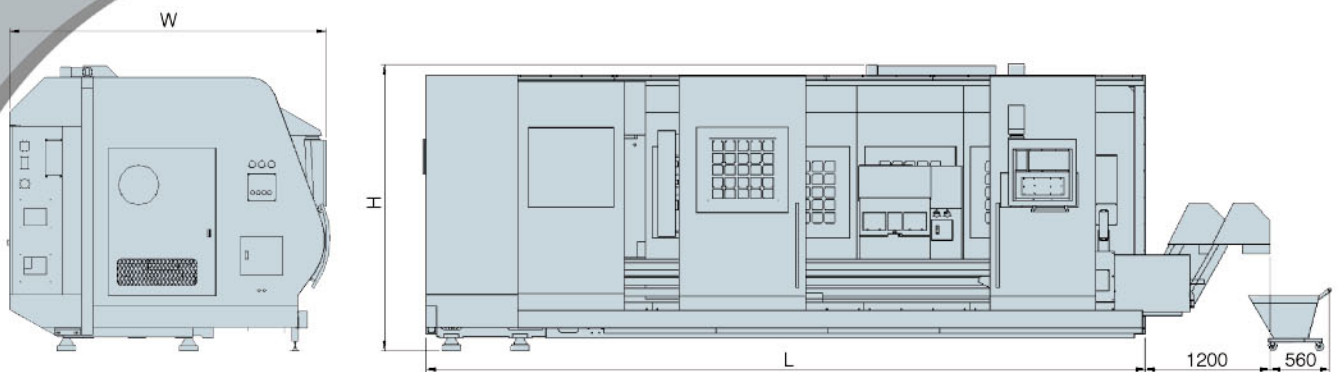
← **LC-50 I 20H**
Flat-Bed CNC Lathes

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



Dimensions

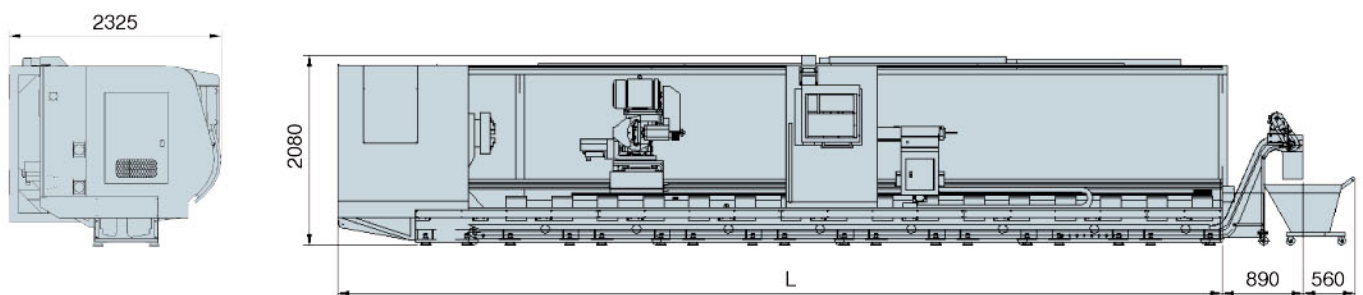
LC Series



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

Model	4080	40120	45160	40200	45240	45280	40320	45360	45400	40400	45480
	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		LC-40 Series	LC-50 Series	LC-60 Series		
		LC-40 Series	LC-50 Series	LC-60 Series		
Item		4080, 40120	5080, 50120	6080, 60120		
		40160, 40200	50160, 50200	60160, 60200		
		40240, 40280	50240, 50280	60240, 60280		
		40320, 40360	50320, 50360	60320, 60360		
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				
Bed	Width	1145 mm (45")				
Headstock	Spindle nose	B: A2-11 / C, D, E, F: A2-15 / G, H, I: A2-20 / J:A2-28 / K:A2-32				
	Spindle bore (mm)	B: ϕ 132.5 / C: ϕ 152 / D: ϕ 185 / 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	B: 2000 / C: 1500 / 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 200 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		6kW		
	Coolant pump motor	0.98 kW				
	Hydraulic motor	3.8 kW				
	C-axis motor	2.1 kW		3.8 kW		
Weight	LC-4080:	22000 kg	LC-5080:	23000 kg	LC-6080:	24000 kg
	LC-40120:	24000 kg	LC-50120:	25000 kg	LC-60120:	26000 kg
	LC-40160:	26000 kg	LC-50160:	27000 kg	LC-60160:	28000 kg
	LC-40200:	28000 kg	LC-50200:	29000 kg	LC-60200:	30000 kg
	LC-40240:	30000 kg	LC-50240:	31000 kg	LC-60240:	32000 kg
	LC-40280:	32000 kg	LC-50280:	33000 kg	LC-60280:	34000 kg
	LC-60320:	34000 kg	LC-50320:	35000 kg	LC-60320:	36000 kg
LC-40360:	36000 kg	LC-50360:	37000 kg	LC-60360:	38000 kg	

■ All data subject to change without notice.

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

Standard Accessories:

- Coolant system
- Auto lubrication
- Working lamp
- Safe guarding
- Tools and tool box
- Various manuals
- Programmable tailstock
- Rotary tailstock spindle
- Tool holders (direct mounting type)
- Hydraulic turret
- Control system FANUC 0i/TC

Optional Accessories:

- Steady rest
- Follow rest
- Chip conveyor
- C-axis (C.S axis without gear box / C.F axis with gear box)
- Spindle 5° indexing
- Power turret
- Tool holder (VDI type / live tool)
- Twin turret
- Manual guide *i* (0i/T / 18i/T)
- Rear chuck adaptor
- Linear scale
- 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-MC

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

O: Std. Δ: Opt. -: Nil

Item	Function	Specifications	SIEMENS	FANUC		
			810D / 840D	18iT	21iT	0iTC
Control axes	Standard number of control axes	axes	2	2	2	2
	No. of simultaneously controlled axes	axes	2	2	2	2
Input commands	Least detection increment	1μ	1μ	1μ	1μ	1μ
	Least programmable increment	1μ	1μ	1μ	1μ	1μ
	Inch/metric conversion	G20/G21	0	0	0	0
	Absolute/incremental command		0	0	0	0
	Diameter/radius designation		0	0	0	0
	ISO/EIA automatic identification		0	0	0	0
	RS232-C interface		0	0	0	0
Interpolation	Positioning (interpolation)	G00	0	0	0	0
	Linear interpolation	G01	0	0	0	0
	Circular interpolation	G02/G03	0	0	0	0
	Variable lead thread cutting		0	Δ	Δ	0
	Continuous thread cutting		0	0	0	0
Program	Memory capacity	Meter	640	640	640	640
	No. of programs stored		unlimited	200	200	200
	Background editing		0	0	0	0
Spindle functions	S code output 4-digit BCD-binary	S4BCD	0	0	0	0
	Constant peripheral speed control	G96/G97	0	0	0	0
	Spindle rate	%	0-200	50-150	50-150	50-150
Feed	Per-revolution		0	0	0	0
	Per-minute		0	0	0	0
	Rapid traverse rate	low25%,50%,100%	0	0	0	0
	Cutting speed rate	%	0-200	0-200	0-200	0-200
	Handle feed rate	x1,x10,x100	0	0	0	0
Miscellaneous function	M-code	M2(BCD)	0	0	0	0
Coordinate system	Automatic coordinate system setting		0	0	0	0
	Machine coordinate system		0	0	0	0
	Work coordinate system	G54-G59	0	Δ	Δ	0
	Coordinate system setting	G50	0	0	0	0
	Manual reference point return		0	0	0	0
	Automatic reference point return	G28/G29	0	0	0	0
	2nd reference point return	G30	0	0	0	0
Reference point return verify	G27	0	0	0	0	
Tool function	Tool command	T4 digit	0	0	0	0
	Shape/wear differentiated compensation		0	0	0	0
	Nose radius compensation	G40/G41/G42	0	0	0	0
	Number of offset sets		unlimited	16	16	64
Operation	Single block		0	0	0	0
	Block skip		0	0	0	0
	Dry run		0	0	0	0
	Machine lock		0	0	0	0
	Option stop	M01	0	0	0	0
	Miscellaneous function lock	M.S.Lock	0	0	0	0
	Manual/Absolute ON/OFF		0	0	0	0
Programming support function	PLC switch		0	0	0	0
	Sub-program control	M98, M99	0	0	0	0
	Corner chamfering/corner rounding		0	0	0	0
	Canned cycle for drilling	G80-G89	0	0	0	0
	Multiple repetitive canned cycle for lathe	G70-G79	0	0	0	0
	User macro		0	0	0	0
	No. of variable command sets		unlimited	100	100	500
	Backlash compensation		0	0	0	0
	Memory-type pitch error compensation		0	0	0	0
Direct drawing dimension program		-	0	0	0	
Measurement function	Skip function		0	0	0	0
	Direct input of offset value measured A		0	0	0	0
	Automatic tool offset		Δ	Δ	Δ	Δ
Safe protect	Emergency stop		0	0	0	0
	Travel protection		0	0	0	0
	Program protection		0	0	0	0
Other	CRT		9.5" LCD	10.4" LCD	10.4" LCD	7.2" mono LCD
	MDI	Full key	0	0	0	small type
	Languages	English/Japanese	7	7	7	7
	Run hour and parts count		0	0	0	0
	Graphic display		0	0	0	0
	Menu programming		0	0	0	0
	Conversational programming with graphic		Δ	Δ	Δ	Δ
	Touch sensor (tool setter)		Δ	Δ	Δ	Δ
	Chinese, French, German, Italian, Spanish		0	0	0	0
	Data server (HD)		Δ	Δ	Δ	Δ
Ethernet interface		0	Δ	Δ	Δ	

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