

■MACHINE STANDARD SPECIFICATIONS

Specifications	Unit	L70FB-NCL
Capacity		
Max. turnable O.D.	mm(in)	φ80(3.149)
Max. turnable length	mm(in)	80(3.149)
Max chuck size(Main)	inch	5
Max chuck size(Sub)	inch	5
Main spindle		
Nose configuration	mm(in)	φ72(2.834) flat
Thru-hole dia.	mm(in)	φ34(1.338)
Bearing I.D.	mm(in)	φ75(2.952)
Max. speed	min ⁻¹ (rpm)	8,000
Motor (30min/cont)	kw (HP)	Built-in spindle 3.7/2.2 (4.9/2.9)
Sub spindle		
Nose configuration	mm(in)	φ72(2.834) flat
Thru-hole dia.	mm(in)	φ34(1.338)
Bearing I.D.	mm(in)	φ75(2.952)
Max. speed	min ⁻¹ (rpm)	8,000
Motor (30min/cont)	kw (HP)	Built-in spindle 3.7/2.2 (4.9/2.9)
Tool post (Main)		
X1 axis	Standard	Gang type
	Option	6st turret (AC servo index)
	mm(in)	Holder Max. 116(0.6)
Tool post (Sub)		
Z2 axis	Standard	Gang type
	Option	6st turret (AC servo index)
	mm(in)	Holder Max. 116(0.6)
Slide ways		
Travel	mm(in)	X1-axis 350(13.779)
		X2-axis 400(15.748)
		Z1-axis 235(9.251)
		Z2-axis 250(9.842)
Rapid	mm/min (IPM)	X1-axis 16,000(629.92)
		X2-axis 16,000(629.92)
		Z1-axis 16,000(629.92)
		Z2-axis 16,000(629.92)
Servomotor	kw (HP)	X1-axis 0.75(1.0)
		X2-axis 1.2(1.6)
		Z1-axis 1.2(1.6)
		Z2-axis 0.75(1.0)
Motor		
Coolant pump	kw (HP)	0.4+0.6(0.5+0.8) (50Hz)
Machine size		
Height	mm(in)	2,340(92.125)
Floor space	mm(in)	2,900x1,940(111.173x76.377)
Weight	kg (lb)	4,400(9,702)

■STANDARD ACCESSORIES

- 3axis CNC controlld gantry loader 1set
- Air chuck and jaws for loading/unloading 1set
- Transferring chuck with jaws 1set
- Spindle chilling system 1set
- Lubrication system 2set
- Splash guard (with automatic open/close window for loader) 1set
- Coolant unit 1set
- Work counter 1set
- Signal tower 1set
- Automatic circuit breaker 1set
- Work light 1set
- Coolant blow system 1set
- Hand tools 1set

■OPTINAL ACCESSORIES

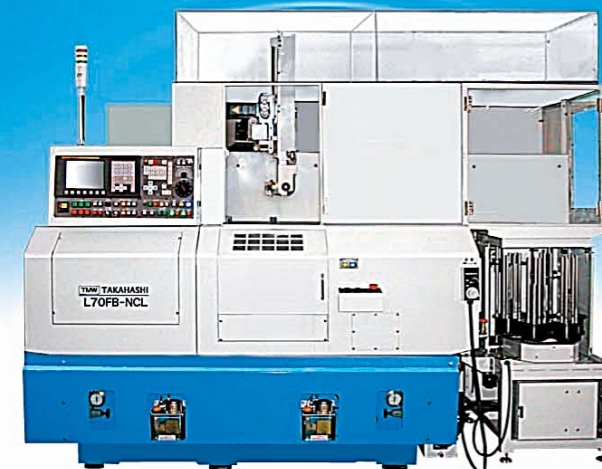
- Tray changer
- Indexing stacker
- Work supply/discharge conveyor
- Pallet changer
- Chip conveyor
- Automatic fire extinguisher
- Oil mist collector
- Coolant temperature controller
- Linear scale unit
- Air blow system
- Tool counter

■CNC UNIT STANDARD SPECIFICATIONS

Specifications	unit	FANUC Series Oi-T
Control		
Control		3systems (for Front Turn, Back Turn and loader)
Controlled axis		9axes (X1,Z1,C1,X2,Z2,C2,X3,Z3,Y3) Simultaneously controllable Axis 9axes (automatic mode)
Spindle control		2
Cs contouring control		C1,C2
Least movement increment		0.001mm (X,Z) 0.001deg (C)
Least input increment		0.001mm (Loader)
Feed function		
Feed rate override		0~150% (10% increments)
Feed rate range (manual)		0~1,260mm/min (16steps)
Rapid traverse override		12.5/25/50/100% (4steps)
Feed per min/Feed per rev.		G98/G99
Reference point return		G28
High speed skip function		G31
Programming		
Max. programmable dimensions		±9digits (12digits for R,I,J,K)
Chamfering/corner R		C&R command on the corner program
Programmable data input		G10
Sub program		Upto 10nesting
Custom macro		100pcs.
Canned cycle		Turning/threading cycles
Hole machining canned cycle		G83~G89,G80(cancel)
Radius designation on arc		R command
Auxiliary/spindle speed function		
M function		Max 3pairs on single block
Constant surface speed control		G96,G97
Spindle orientation		M10
Rigid tapping		M29, G84/G88
Offset		
Tool & offset command		T4digits
Tool offset amount memory		99
Tool geometry/wear compensation		Separate page of the offset
Tool nose radius compensation		G40, G41, G42
Measuring function		Offset amount direct input
Editing function		
Additional part program Storage (total amount)		256Kbyte (640m)
Number of registerable Programs (total amount)		63
Expand tape editing		Delete, Past, Copy and move
Memory card editing		63pcs.
Memory card interface		Interface to CNC memory
Setting and display		
Display		8.4inch color LCD
Alarm history display		Max. 60pcs.
History of operation		Memorizing the screen
Run hour and parts count display		Preset at setting screen
Servo guide display		Display of carret servo conditions
Language select		English/Japanese (preset at Setting screen)

**DUAL SPINDLE PRECISION CNC LATHE
WITH 3-AXIS GANTRY LOADER**

L70FB-NCL



- Reliable and rigid built-in spindle guarantees the maximum turning performances.
- The slide structure has adapted an original technology (pat.).
- The machine is suitable for manufacturing a large quantity of automotive components.

TW

●Due to continual research and improvement, the above specifications are subject to change without notice.

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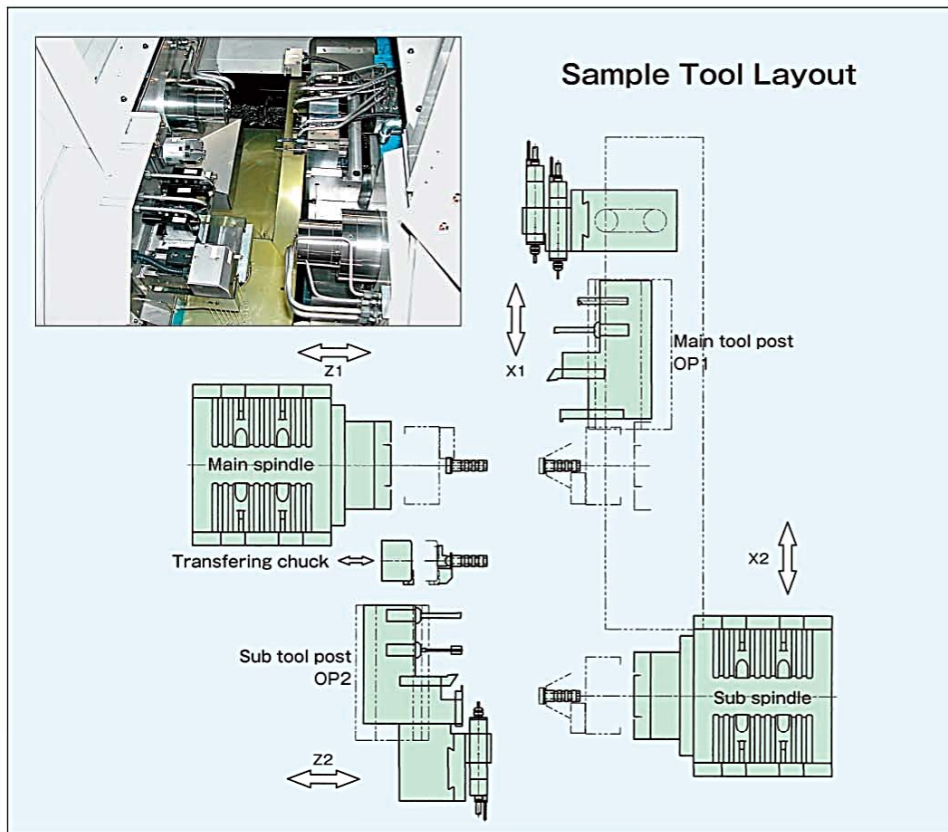
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That's A Simultaneous Operating Lathe

High precision, High Productivity!!

Japan Patent No.4393477

- 1.The independent 4-axis slides enable both of front and back turning operations simultaneously.
- 2.Main and sub spindle enable simultaneous turning operation on both spindle.
- 3.The transferring chuck enables quick handling for loading and unloading.



■ The 6-station tarret is available as an option

Built-in Type Spindle



The house-made spindle with built-in motor ensures reliable high-speed precision turning operation. Takahashi has an excellent reputation for the headstock from over 25 years' experience and record.

Automation System



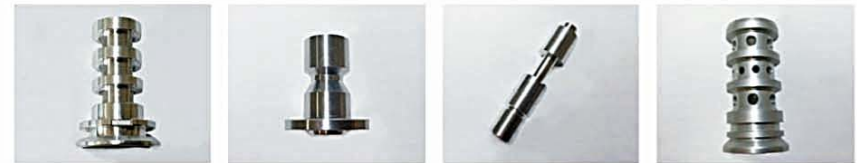
Work supply/discharge conveyor

Indexing stacker

Pallet stacker

Bar feeder

The machine is suitable for manufacturing a large quantity of automotive components.



L70FB-NCL MACHINE EXTERNAL VIEWS

