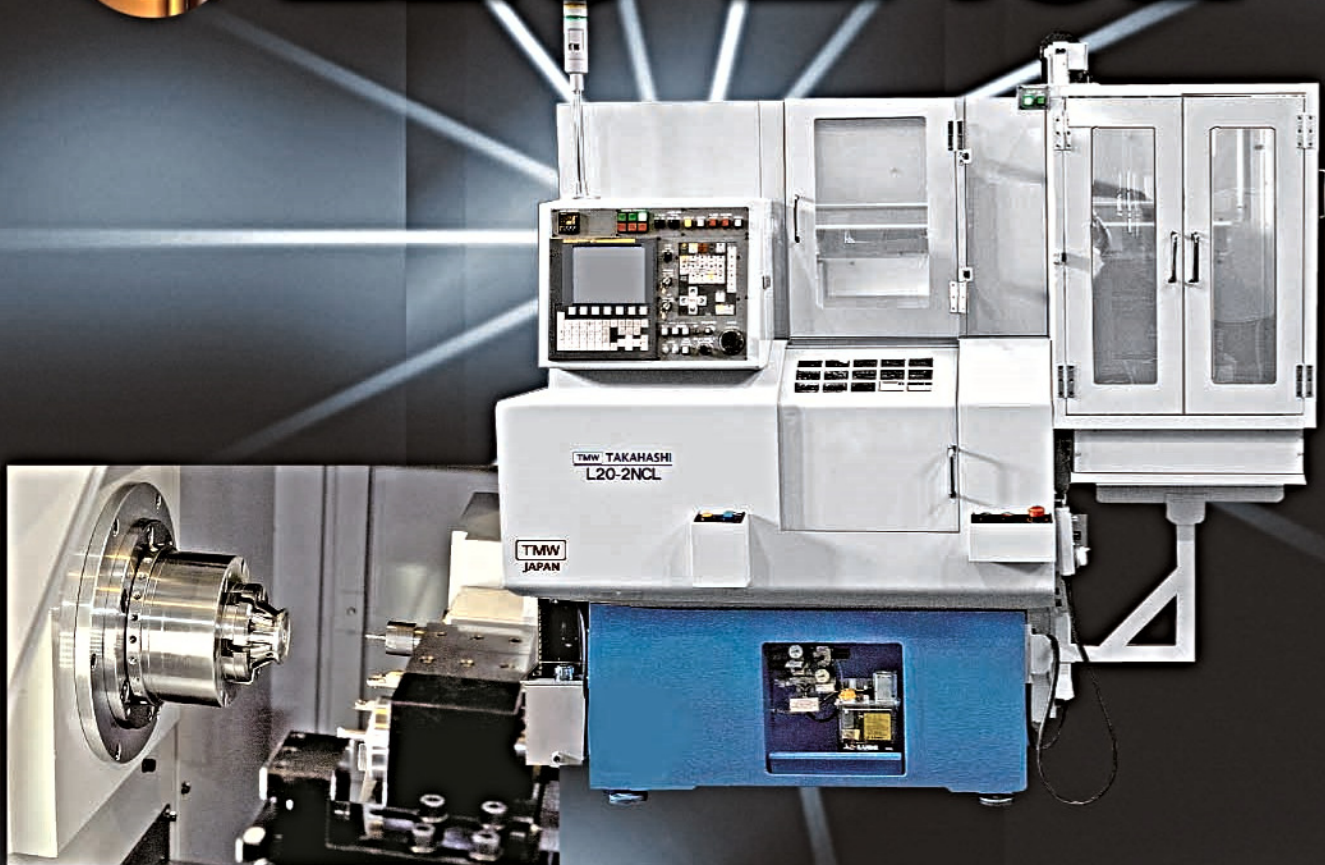


HIGH SPEED PRECISION COMPACT GANG TYPE CNC LATHE
WITH 2-AXIS CNC CONTROLLED GANTRY LOADER



L20-2NCL



The originality designed 2-axis gantry loader equipped on the L20 allows stable and consistent operation. Choice of stacker and conveyor from various options provide long term continuous operation.

● **Spindle & Headstock**

High-speed precision spindle with built-in spindle motor enables maximum 10,000min⁻¹.
(option: 15,000 min⁻¹)

Combined machining is available by using C-axis and rotating tool (option).

● **X-axis & Z-axis slide way**

X,Z axis ball screws are preloaded to maintain the thermal stability from the heat expansion. High rigid linear slide ways are employed which offers smooth contour machining for light taper and radius turning.

MACHINE STANDARD SPECIFICATION

Specifications	Unit	L20-2NCL
Capacity	Max.turnable O.D.	mm(in) $\phi 100(3.937)$
	Max.bar capacity	mm(in) $\phi 20(0.787)$
	Max.turnable length	mm(in) 80(3.144)
	Max.chuck size	in 4
Travel	X-axis	mm(in) 200(7.874)
	Z-axis	mm(in) 200(7.874)
Main Spindle max.speed	min ⁻¹ (rpm)	Max.10,000 (Option:15,000with Ceramic ball bearings)
Rapid feed rate	X-axis	mm/min(IPM) 20,000(787.401)
	Z-axis	mm/min(IPM) 20,000(787.401)
Cutting feed rate	mm/rev(in/rev)	0.0001~40.000(0.000001~9.999999)
	mm/min(IPM)	1~4,000(0.01~400.0)
Main Spindle motor	kw(HP)	Built-in spindle motor2.2/1.5(2.9/2.0) (Option: Ceramic ball bearings with grease lubrication)
Servomotor	kw(HP)	X:0.75/Z:0.75(1.0/1.0)
Machine size	Height	mm(in) 1,940(76.377)
	Floor space(WxD)	mm(in) 1,950(76.771)×1,300(51.181)
	Weight	Kg(lb) 1,400(3.087)

STANDARD ACCESSORIES

- 2axis NC gantry loader ● Loading/unloading air chack and jaws
- X-Z axis lubrication system 1 set ● Tool holders 3 sets ● Spindle chilling system 1 set ● Splash guard 1 set ● Coolant unit 1 set ● Door lock system 1 set ● Work light 1 set ● Coolant blow system 1 set
- Hand tools 1 set

OPTIONAL ACCESSORIES

- X axis linear scale (resolution 0.05 micron meter) ● Chip conveyor
- Automatic fire extinguisher ● Duct for mist collector ● Oil mist collector
- Coolant temperature controller ● 4" precision air chuck and jaws
- 4" diaphragm chuck and jaw ● Air blow through spindle ● Air blow system
- Tool counter ● TMW20-type ($\phi 20$ mm max.) mechanical collet holder
- Quick change type toolholder system ● Parts in/out conveyor
- Parts in/out palletize system ● Parts in/out pellet changer

CNC UNIT STANDARD SPECIFICATIONS

Specifications	Unit	FANUC Series Oi-T
Controlled axis		5 Axes (X-Z-C-ZL-YL) Simultaneously controllable axis: 5 axes (automatic mode)
Least input increment	mm(in)	0.0001 (0.00001)
Max.programmable dimensions	mm(in)	$\pm 9999.9999 (\pm 999.99999)$
Manual handle feed	mm(in)	0.0001 (0.00002), 0.001 (0.0001), 0.01 (0.001)
Interpolation function		Linear, Taper, Threading, Circular Incremental & Absolute
Part program storage & editing	m (ft)	2,560 (8,396.8)
Display	in	8.4 inch color LCD
Number of register able programs		800
Input code		ISO/EIA automatic recognition
Tool offset		± 7 digits, 128 pairs
Rapid traverse override		4 steps
Reference position		Manual, Automatic

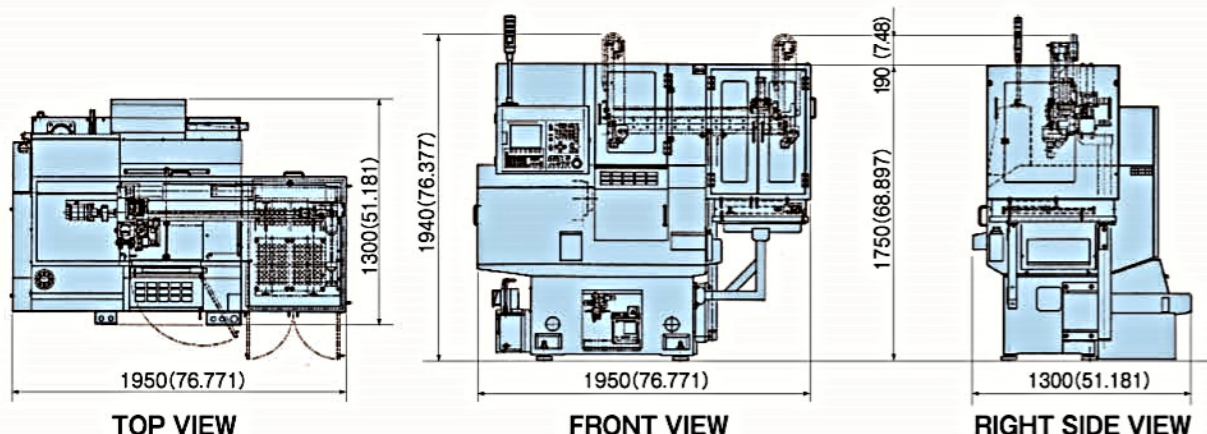
CNC UNIT STANDARD ACCESSORIES

- Tool geometry and wear offset ● Chamfering/corner R
- Manual pulse generator ● Backlash compensation ● Canned cycles
- Multiple repetitive cycles (G70~G76) ● Run hour and parts count display
- Thread cutting retract ● Continuous threading ● Play back
- Radius designation on arc ● X axis diameter/radius programming
- Constant surface speed control ● Tool nose radius compensation
- Inch/metric conversion ● Custom macro ● Extended program editing
- Rigid tapping

CNC UNIT OPTIONAL ACCESSORIES

- External offset input interface ● Reader/puncher interface
- Automatic tool offset

L20-2NCL MACHINE EXTERNAL VIEWS



TMW

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

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