

HIGH PRECISION AND HIGH SPEED
GANG TYPE CNC LATHE

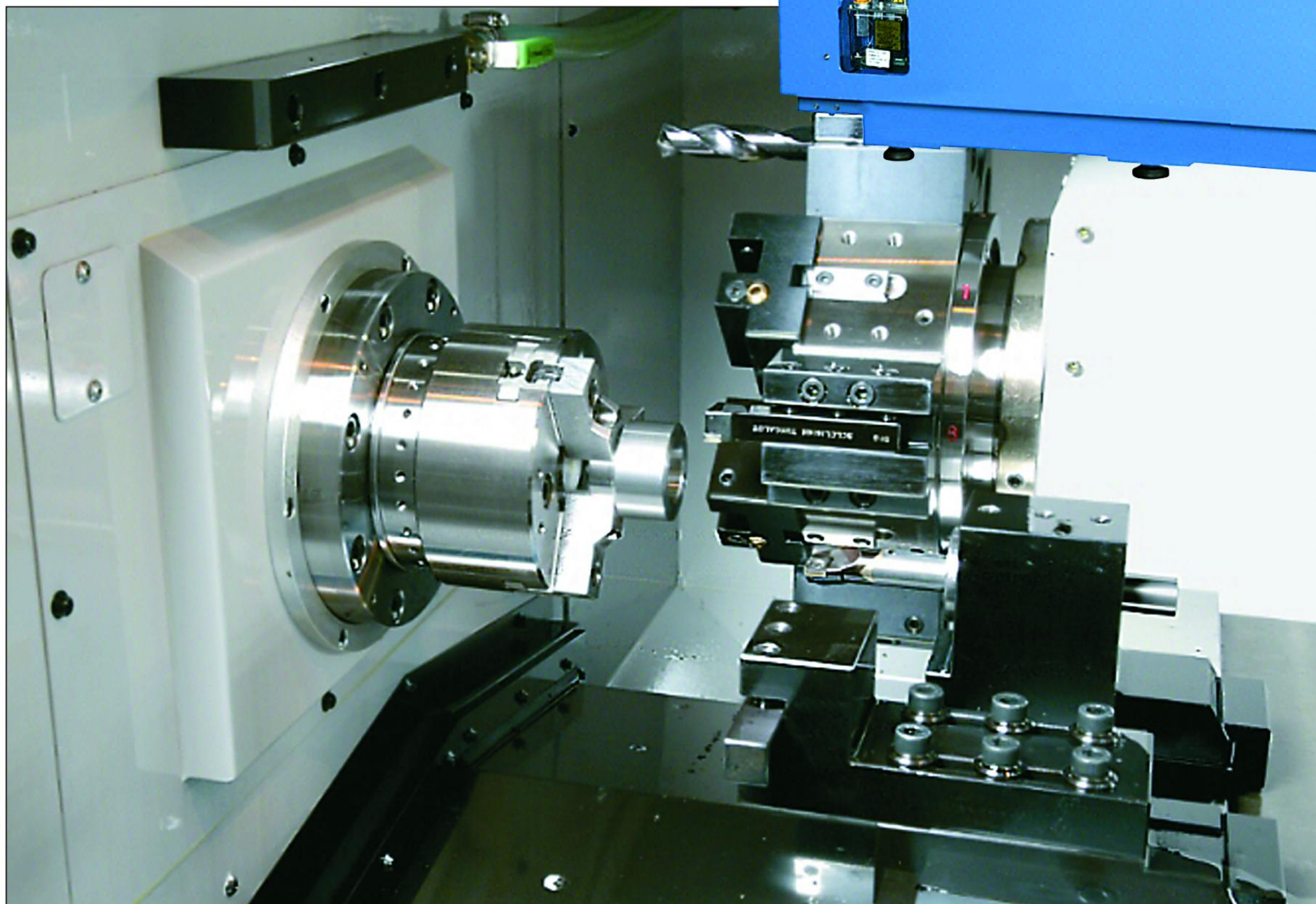
NEW

L100/L100-T

High turning performance, heavy-duty and high precision gang type CNC lathe.

High speed spindle with the built-in spindle motor enables maximum 6,000min⁻¹.

- Combination tooling system is available for 8 station turret (option) and gang type tooling.
- Slide travels in X-axis: 300mm (11.8in) and Z-axis: 350mm (13.7in) .
- Live-tooling application is capable utilizing with Face and/or O.D. milling unit.
- Maximum size of power chuck is 6inch.
- Maximum bar capacity through collet is $\phi 36\text{mm}$ (1.417in) .



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TAKAHASHI MACHINERY

L100/L100-T

MACHINE STANDARD SPECIFICATIONS

Specifications		Unit	L100
Capacity	Max.turnable O.D.	mm (in)	φ150 (φ5.905)
	Max.turnable length	mm (in)	150 (5.905) /chuck work
Travel	X-axis	mm (in)	300 (11.811)
	Z-axis	mm (in)	350 (13.779)
Spindle	Speed	min ⁻¹ (rpm)	Max.6,000
	Nose configuration	mm (in)	φ87 (φ3.425) flat
	Thru-hole dia.	mm (in)	φ48 (φ1.889)
	Bearing I.D.	mm (in)	φ90 (φ3.543)
Tool post	No. of tool mounting's	Pc.	Max.8
	Size of square shank	mm (in)	Standard □13 (1/2), max.□20 (3/4)
	I.D.tool holder	mm (in)	φ32 (φ1.259)
Rapid feed rate	X-axis	mm/min (IPM)	16,000 (629.440)
	Z-axis	mm/min (IPM)	16,000 (629.440)
Motor	Spindle motor	kw (HP)	Built-in 5.5/2.2 (7.3/2.9)
	Servomotor (X)	kw (HP)	1.2 (1.6)
	Servomotor (Z)	kw (HP)	1.2 (1.6)
Machine size	Spindle center height	mm (in)	1,055 (41.535)
	Machine height	mm (in)	1,520 (59.842)
	Floor space (W×D)	mm (in)	1,760×1,745 (69.291×68.7)
	Weight	kg (lb)	2,750 (6,187)

MACHINE STANDARD ACCESSORIES

- Coolant unit ●Work light ●Tool holders ●Full splash cover
- Door interlock system ●Hand tools

MACHINE OPTIONAL ACCESSORIES

- Hydraulic chuck (6inch) ●Collet chuck system ●Chip conveyor
- Parts catcher system ●Signal tower (with buzzer) ●Automatic air blow system ●Bar feeder system

CNC UNIT STANDARD SPECIFIFCATIONS

Specifications	FANUC Series Oi-T
Controlled axes	3axes (X,Z,C) simultaneously controllable axes:3axes
Least input increment	0.0001mm (0.00001")
Max.programmable dimensions	±99999.9999mm (±999.99999")
Manual handle feed	0.0001mm, 0.001mm, 0.01mm (0.00001", 0.0001", 0.001")
Interpolation function	Linear, Taper, Threading, Circular
Command system	Incremental & Absolute
Part program storage & editing	800m (2,624ft) (320kbyte)
CRT & MDI display	8.4" color LCD
Number of register able programs	400
Tool offset amount memory	±7digits, 64pairs
Rapid traverse override	4steps (12.5%, 25%, 50%, 100%)
Reference point return	Manual, Automatic

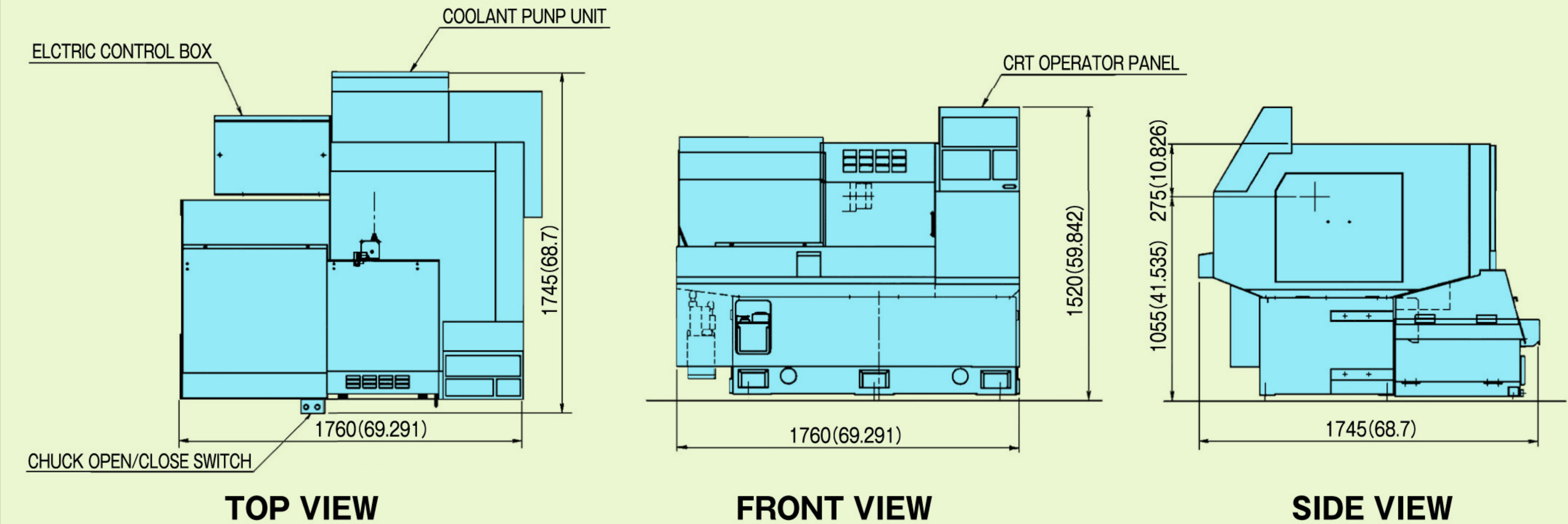
CNC UNIT STANDARD ACCESSORIES

- Tool geometry and wear offset ●Radius designation on arc
- Chamfering/corner R ●Inch/metric conversion
- X-axis diameter/radius programming ●Program input/output interface ●Constant surface speed control ●Manual pulse generator ●Tool nose radius compensation ●Backlash compensation
- Spindle orientation ●Canned cycles ●Custom macro ●Multiple Repetitive cycles (G70~G76) ●Run hour and parts count display ●Extended program editing ●Cylindrical interpolation
- Polar coordinate interpolation ●Thread cutting retract
- Rigid tapping

CNC UNIT OPTIONAL ACCESSORIES

- Tool offset input interface ●Unexpected disturbance torque detection function ●Automatic tool offset

L100/L100-T MACHINE EXTERNAL VIEWS



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

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