Appearance and features high precision turning!

The L30-NCL has been designed for manufacturing a large quantity of HDD motor parts and other high precision components.

The machine improves the machining quality and gain your profits, The machine equipped with the built-in AC spindle motor and CNC controlled gantry loader enables non-stop high standard machining operation.

COMPACTP PRECISION GANG TYPE CNC LATHE WTH 3-AXIS CNC CONTROLLED GATRY LOADER

BOENCE



HEADSTOCK AND HEADSTOCK BASE

- The headstock is a rigid sturdy box-type design. The heat generated from the spindle motor is cancelled by an oil chiller. The headstock is equipped with an air purge cooling system for performing high thermal stability.
- At 8,000min⁻¹.the maximum rise in temperature on the headstock is controlled within 5 degree Celsius for minimizing dimensional variation through machining operation.
- The headstock has an independent base to be insulated from the vibration by X and Z axis slide's movement.

X-AXIS·Z-AXIS SLIDEWAY'S

- The X and Z axis slideway's are dovetail structure for the maximum rigidity and superior accuracy.
- X,Z axis slidesway's and ball screw nuts are lubricated by a central automatic lubrication unit.
- High grade ball screws are employed and preloaded to maintain the thermal stability from the heat expansion by circulation balls.



MICROSTAR L30-NCL

■MACHINE STANDARD SPECIFICATION

Specifications				Unit	L30-NCL
Capacity	Max.	turnab	ole O.D.	mm(in)	ϕ 80(3.149)
	Max.l	bar ca	pacity	mm(in)	φ25(0.984)
	Max.	turnac	lle length	mm(in)	80(3.149)
	Max.	chuck	size	in	5
			Z-axis	mm(in)	250 (9.842)
			X-axis	mm(in)	250 (9.842)
Main Spindle max.speed			ed	min ⁻¹ (rpm)	Max.8,000
Rapid feed rate		X-axis	mm/min(IPM)	12,000 (472.440)	
			Z-axis	mm/min(IPM)	16,000(629.921)
Cutting feed rate				mm/rev(in/rev)	0.0001~40.0(0.000001~9.999999)
				mm/min(IPM)	1~4,000(0.01~400.0)
Main Spindle motor				kw(HP)	Built-in spindle motor 3.7/2.2(4.9/2.9)
					(Option:Ceramic ball bearings with
					grease lubrication)
Servomotor				kw(HP)	X:1.0/Z1.4(1.3/1.9)
Machine si	ize l	Height		mm(in)	1,900(74.803)
	F	Floor sp	pace(W×D)	mm(in)	2,455(96,653)×1,550(61.023)
	V	Weigh	t	Kg(lb)	1,900(4,189)

ESTANDARD ACCESSORIES

- ●3 axis CNC controlled gantry loader 1 set ●2" air chucks and jaws for load/unload 1 set ●Tool holders 4 sets ●Spindle chilling system 1 set
- •X·Z axis lubrication system 1 set •Door lock system 1 set •Splash guard (with automatic open/close window for loader) 1 set •Coolant unit 1 set
- Work counter 1 set ●Signal tower 1 set ●Automatic circuit breakert 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)
 Work supply/discharge conveyor
 24 station indexing stacker
 Pallet changer
 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

ECNC UNIT STANDARD SPECIFICA TIONS

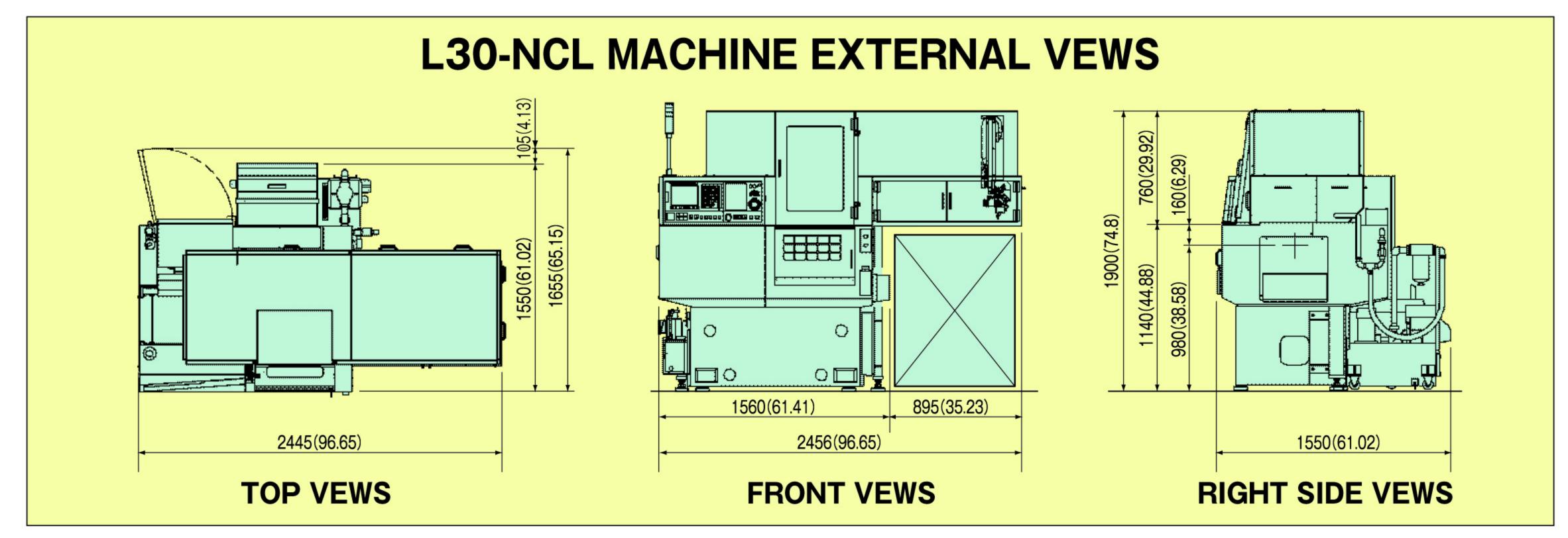
Specifications	Unit	FANUC Series Oi-T
Controlled axis		6 Axes(X.Z.C.XL.ZL.YL)
		Simultaneously controlladle axis:
		6 axes (automatic mode)
Least input increment	mm(in)	0.0001 (0.00001)
Max.programmable dimensions	mm(in)	±9999.9999 (±999.99999)
Manual handle feed	mm(in)	0.0001 (0.00002),0.001 (0.0001),0.01 (0.001)
Interpolation function		Linear, Taper, Threading, Circular
		Incremental & Absolute
Part program storage & editing	m(ft)	2,560(8,399.36)
Display	in	8.4 inch color LCD
Number of register able programs		800
Input code		ISO/EIA automatic recognition
Tool offset maount memory		±7digits,128 pairs
Rapid traverse override		4 steps
Reference position		Manual, Automatic

ECNC 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
- Unexpected disturbance torque detection function
 ●Rigid tapping

ECNC UNIT OPTIONAL ACCESSORIES

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





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

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