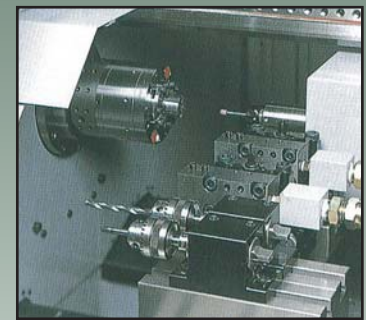


CNC lathe to meet various kinds of purposes in high accuracy, chucker or bar works and complex machining as well



■ Highest ranked machine in Eguro's NUC series

Developped as a machine to be ranked higher than NUCBOY-8EX or NUCLET-10EX, this machine NUCPAL-10EX, linear turret lathe, brings machining of high accuracy and high productivity.

■ Spindle head stock to bring highly accurate turning

The spindle head stock is rigid and free from heat distortion

The spindle is supported by ultra high precision angular contact bearings at two positions, fron and rear.

This sustains the loads from thrust and axial directions and both roundness and roughness within 0.5 micron meter can be attained.

■ Relaiable accuracy

The bed is rigid and 400mm wide. The X axis is closed-looped being equipped with optical scale of resolution 1 micron mete. The turning is stable from the start "cold start".

■ Linear turret tooling of minimum idle time

Linear turret tooling does not need rotating tool change like revolving turret and minimizes idling time.

This is best suited to highly accurate turning. nd highly efficient turning as well.

The tool holders are with T shaped slots by which the holders can be set at desired position easily and the best tool layout for each workpiece can be made.

■ Various kinds of units for complex machining

Long stroke of 420mm of X axis accepts many tools.

Among them are end mills, drills and taps chucked in the rotaing units.

Complex machining can be done with best combnation of toos for each workpiece.

Machine specifications

Item			Standard	Option	
Capacity	Swing over bed	mm	350		
	Swing over cross slide		200		
Spindle nose			Taper for collet	Flat ϕ 100	
Collet	Max. dia.	mm	25.5	—	
Spindle	Command		S4 digit		
	Speed	$m i n^{-1}$	100~5,000		
Slide	Type of tooling		Linear turret		
	Tool size	mm	\square 16		
	Travel	X axis	mm	420 (closed-loop)	
		Z axis		390	
	Rapid traverse	X axis	m/m i n	15	
		Z axis		15	
	Control loop	X axis		1 μ closed loop	
		Z axis		—	
	Jog feed rate	mm/m i n	0~1,260		
	Number of tools	pcs.	per work to be turned		
Motor Spindle	Drive		Belt		
	Power	k w	FANUC α 3i AC 3.7	FANUC α 6i AC 5.5	
Motor	Coolant pump	k w	0.18		
	Lubrication pump		0.03		
Power	Electricity	k v A	12.5 (9.4kw)		
	Air	Mpa	0.4		
Machine height		mm	1535		
Center height		mm	945		
Floor space (L x W)		mm	1,800 x 1,645		
Machine weight		k g	2100		
CNC control unit		k g	FANUC System 21i-TB		

CNC control

Item	
Control unit	FANUC S. 21i-TB
Axes controlled	2 (X, Z)
Interpolation	Linear, Taper, Thread, Circular
Program input	MDI, Tape
Command	Incremental, Absolute
Tape code	EIA/ISO
Least input increment	X:0.001 (dia) Z:0.001
Least command increment	X:0.0005 Z:0.001
Max programmable dimensions	\pm 99999.999mm
Feed radte	0.001~40,000mm/rev.(1~5,000mm/min.)
Thread cutting	0.0001~40,000mm
Tool offset memory 16 pairs	\pm 999.999mm
Dwell	0~99999.999 sec.
Backlash compensation	0~0.255mm
Manual handle feed rate	0.01/0.001mm
Tape memory	10m
Auxiliary function	M2 digit , S 4 digit, T2 digit
Canned cycle	O.D.(G90) Thread (G92) Face (G94)
Reference point return	Manual, Auto. (G27, G28)
Display	7.2 inch Liquid crystal
Interface	RS232C
Others: Standard	Handle run (Program retrace), Chamfer and Corner R Geometry offset, Work time and work piece display Constant surface speed control, Program number search, Sequence number search, Circular interpolation specifying arc R, Single block, Overtravel, Block delete Optional stop, Machine lock, Feed hold, Emergency stop

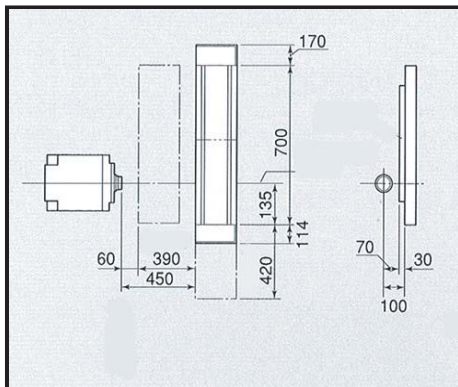
Standard accessories

- Splash guard
- Cutting tool coolant
- Automatic lubricator
- Work light
- Collet blank
- Spindle nose cover
- Tool holder
- Tool holder base
- Tool holder base plate
- Hex key spanner
- Double ended spanner
- Driver
- Tool box
- Machine base
- Chip tank
- Machine lift up bolts

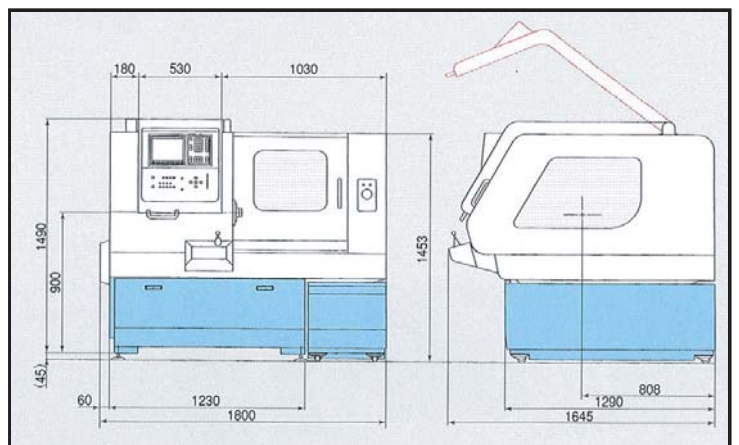
Optional specifications

- Spindle index Cf (Spindle index by servo motor)
- Spindle index Cs (Spindle index by spindle motor)
- Drill unit
- Hydraulic chuck
- Coolant oil temperature control device
- Revolving turret
- Milling unit
- Barfeeder
- Pneumatic chuck
- Precision pneumatic chuck
- Air blower
- Automatic oil mist coolant
- Diaphragm chuck
- Coolant through spindle

Tooling area



Dimensions



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