

Ultra-precision linear
turret CNC Lathe

100-Nano

for the highest accuracy
 $0.1 \mu\text{m}$ command execution



- Eguro's core technology (high speed and highly accurate spindle, slide of high command execution and control soft pursuing high response) and the most advanced technologies. All are concentrated into this ultra precision linear turret lathe.
- X and Z axes are in independent double V construction. The slide surfaces are molybdenum coated. Molybdenum has a character of pro-oil, good for sliding.
- Machine base is made of artificial granite, designed symmetrically against heat. Granite has low coefficient of expansion and absorbs vibration.
- Built in pneumatic static bearing is adopted to the spindle. The best roundness under the technologies presently available is obtained.
- Machine construction realizes turning in high accuracy in the normal environment. Machine accepts coolant oil in turning thanks to the scraped sliding surfaces.

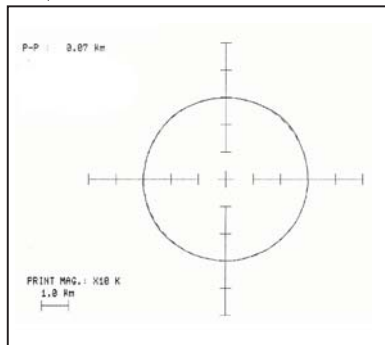
Machine standard specifications

Item		Description		
Machine capacity	Swing over bed	mm	250	
	Swing over cross slide		200	
	Max. work size		φ65×60	
Spindle	Change of speed		Step-less, S4 digits direct command	
	Speed	m i n ⁻¹	m a x. 5, 000	
	Nose		φ190 flat type	
Slide	Travel	mm	X axis : 200	
			Z axis : 125	
	Rapid traverse	m/m i n	X axis : 5	
			Z axis : 5	
	Control	X axis		0.05 micron meter closed loop
				Z axis
Jog speed	mm/m i n	0 ~ 1,287		
Number of tools		to be decided per work		
Type of slide			Linear turret	
Motors	Spindle		Built in pneumatic static bearing	
	Power	k w	2.2	
	Slide		X axis	1.0
			Z axis	1.0
Power Electricity	KVA	6		
Center height	mm	950		
Machine height	mm	1,710		
Floor space	mm	1,175×990		
Machine weight	k g	900		

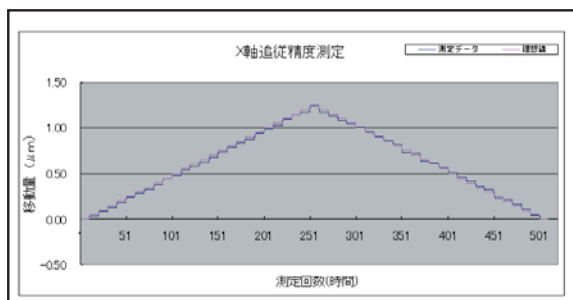
Machine options

Air blower, Coolant oil temperature control unit, Precision pneumatic chuck
 Oil mist coolant device, Pneumatic chuck, Milling unit
 Diaphragm chuck, Automatic door open/close device, Drill unit

Spindle roundness



X axis accuracy



Control unit

Item	Description
NC contrl unit	FANUC/S 32i-A
Display	7.2 inch L.C.D. (mono-chrome)
Axes controlled	2 axes (X, Z) Simultaneous 2 axes
Least input incremental	X axis : 0.0001 (dia.), Z axes : 0.0001
Interpolation	Linear, Taper, Thread, Circular
Auxiliary function	M 2 digits
Spindle function	S 4 digits
Tool function	T 2 digits
Tool offset	8 pairs
Part program storage length	32 KB (equiv. 80m)
Rapid traverse override	0 ~ 150 %
Canned cycle	O.D. (G90), Thread (G92), Face (G94)
Interface	RS232C and memory card
Others	Run hour and parts count display Optional stop, Geometry offset Program number search, Single block Radius designation on arc, Feed hold Chamfering and corner R, Block delete Sequence number search, Emergency stop

Standard accessories

- Tool box and tool kit
- Splash guard
- Tool tip coolant device and chip tank
- Work light
- Chip tank

CNC options

- Tool nose radius compensation
- Simple tool life management function
- Tape memory expansion to 128KB (320m)
- Custom macro
- Spindle orientation
- Multiple repetitive cycle (G70~G76)

Dimensions

