

3 axes slides CNC lathe

# SANAX-6

The new stage  
 “minute precision complex machining”



- With 3 axes CNC controlled slides, a very downsized lathe having practical specifications is born.

With vertical type linear turret, the strokes of the slides can be minimized.  
 The time of air cut is much shortened, the temperature of the slides is kept from increasing.  
 All these realize high accuracy machining.  
 Ten tools can be set on the holder in maximum, complex machining can be done.

- Design concept of compactness

Design for the compactness overthrowing the common understanding of the CNC lathes.  
 Machine length and width : 800 x 880 (mm)

- Spindle speed 12,000 min<sup>-1</sup>

The spindle can rotate at the speed of 12,000 min<sup>-1</sup> with EGURO No.6 collet.

## Machine standard specifications

Item		Description	
Holder and Work size	Tool holder for O.D. turning	□12 x 5 pcs.	
	Tool holder for I.D. turning	φ 16 x 5 pcs.	
	Max. work size	mm φ 30 x 100	
Spindle	Change of speed	Step-less, S5 digits direct command	
	Speed	m i n <sup>-1</sup> max. 12,000	
	Size of collet	mm max. φ 15	
	Nose	EDA-6 collet chuck	
Slide	Travel <small>(A axis: Sub spindle)</small>	mm X axis : 50	
		Y axis : 100	
		Z axis : 150	
	Rapid traverse <small>(A axis: Sub spindle)</small>	m/m i n X axis : 8	
		Y axis : 8	
		Z axis : 15	
	Jog speed	mm/m i n 0 ~ 1,287	
Number of tools	max. 10		
Type of slide	Vertical linear turret		
Motors	Spindle	1.2/1.0 (10 min./continuous)	
	Slide <small>(A axis Sub spindle)</small>	X axis	0.4
		Y axis	0.4 ( with brake )
		Z axis	0.75
		A axis	0.4
Power Electricity	KVA	5.0	
Center height	mm	1 035	
Machine height	mm	1, 525	
Floor space	mm	800×880	
Machine weight	k g	550	

## Machine options

Air blower, Mist collector, Spindle index device  
 Oil mist coolant device, Work knock-out device, Spindle brake device  
 Hole and flange for mist collector, Sub spindle, Work collection device  
 Tool tip coolant oil temperature control device, Optical scales for X, Y, Z, Center  
 Short type barfeeder (Model : SMS 200/300)

## Work samples at JIMTOF 2008



**Stylus**  
 Material : SKD 1 1 (HRC52)  
 The work length is 4mm turned from the blank of φ3. Minute precision complex machining is realized by minute feeding and minute cutting depth.



**Miniature spool**  
 Material : A2017  
 Synchronous rotation of the main and sub spindles. Axial concentricity required for spool can be obtained at one rank higher level.



**Miniature feed screw**  
 Material : T i - 6A 1 - 4V  
 (Titanium alloy)  
 Ultra sonic vibration turning plus synchronous rotation of the main and sub spindles can make the feed screw with high accuracy.

## Control unit

Item	Description
NC contril unit	FANUC/S 21i-TB
canned cycle	7.2 inch L.C.D. (mono-chrome)
Axes controlled	3 axes (X, Y, Z) Max. Simultaneous 4 axes ( Option)
Least input incremental	X axis : 0.001 (dia.) , Y and Z axes : 0.001
Interpolation	Linear, Taper, Thread, Circular
Auxiliary function	M 2 digits
Spindle function	S 5 digits
Tool function	T 2 digits
Tool offset	16 pairs
Part program storage length	20m
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, Sequence number search Optional stop, Geometry offset Program number search, Single block Radius designation on arc, Feed hold, Emergency stop Chamfering and corner R, Block delete

\*In case the number of axes controlled exceeds 5 or the number of the spindles is 3 or more, or the sub spindle is adopted, the control system will be FANUC S31i-A.

## Recommended options

- Work light (LED)
- Cutting tool coolant device
- Casters to move the machine

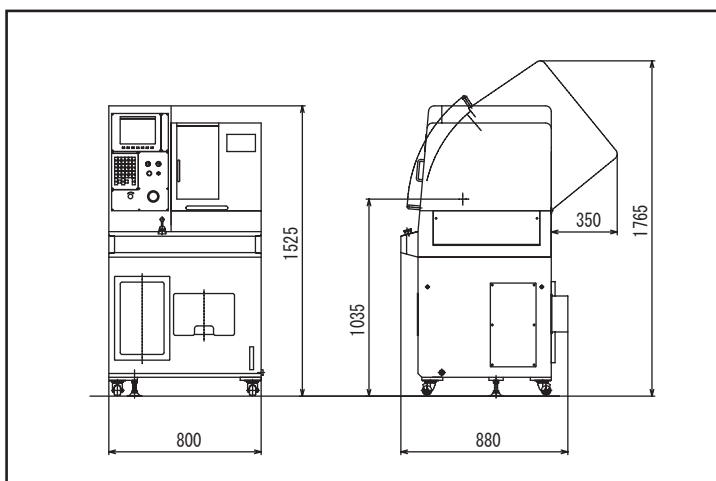
## Standard accessories

- Chip bucket
- Splash guard
- Tool box and tool kit

## Sequence number search

- Tool nose radius compensation
- Tool offset pairs 32
- Spindle orientation
- Multiple repetitive cycle ( G70~G76 )
- Simple tool life management function
- Custom macro
- Circular threading / continuous threading
- Incremental system 1/10

## Dimensions



※ All specifications shown in this catalogue are subject to change without notice.



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