

TXseries

TX-75Y

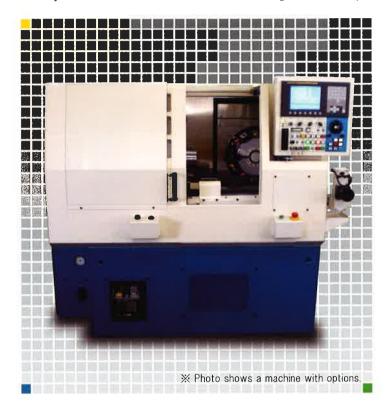
Small Type
Precision CNC Turret Lathe
(Y axis + Rotary tools + Rigidtapping + Cs Contouring Control)

V axis I Potany tools I Pigidtagning I Ce Contouring Contro

Stable, high-speed and high-precision machining of a compact turret lathe. Additional Y axis on turret make it available for multiple cutting purpose.

Our goal was to implement the high-precision, compact CNC complex turret lathe. After reviewing the design from all aspects, newborn models are now available.

Y axis, turret tool (drill unit and rigid tap) and Cs contour control function enable complex machining in one-chuck operation. If the cycle time needs to be reduced in machining a small workpiece, this compact lathe is the best solution.



Operation

Totally new design, easy-to-use operation panel, an excellent structure for maintenance.

■ Low price

All these high performances at reasonable prices,

We will contribute to low costs for customers.

Characteristic

■ High-speed

The biggest advantage of the compact complex CNC turret lathe is zippy, efficient, smooth tool reaching, which significantly reduces the cycle time.

■ High-precision

The unique high-precision main spindle of KITAMURA MACHINE WORKS is well known. However, we reduced the cycle time by adoption of high-acceleration servomotor and latest high-speed CNC, comparing to the former model. Without compromise, we have improved the "scraped finish" that can only be achieved with traditional KNC technology and craftsmanship. We provide you with the most stable precision for many years. Furthermore, an NC order 0.1µ comes standard, Smoother taper/R processing was made possible.

Less space

One of the least space in this class of machines.

■ Special specifications

A great number of special accessories available for customers.

Specifications

The CNC software options come standard, which generally are necessary. Examples are program storage length 1280M and multiple repetitive cycles. Special specifications are partly removed.

Processing precision example

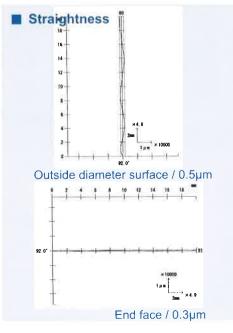
Processing condition

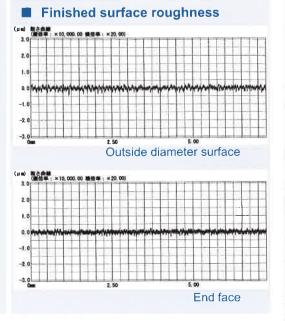
Machined material : BsBM
Spindle speed : 3000rpm
Feed : 0.03mm rev

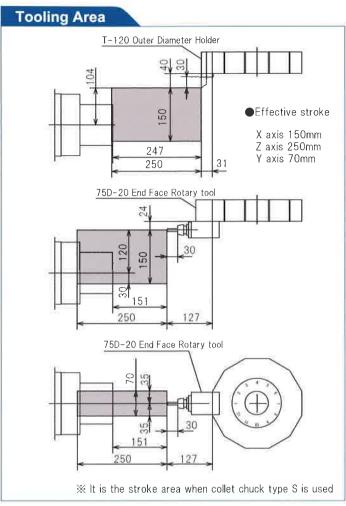
Cutting depth : 0.02mm(dius diameter)

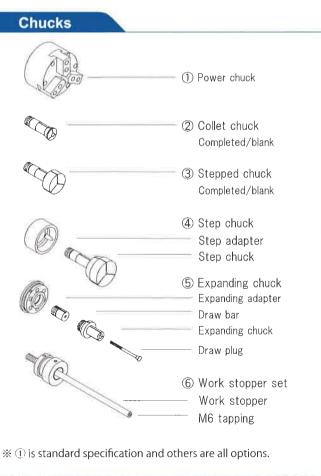
Tool used : Compax Nose R0.3











Others chucking system

center

Rotary air cylinder open/closed center

· Rotary hydraulic cylinder open/closed

Others chuck

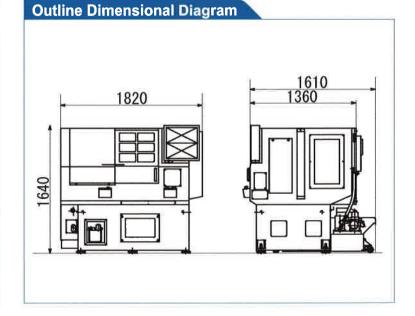
· Vacuum chuck

Super precision air chuckS type collet chuck

T-120 Outer Diameter Holder T-110 End Face Holder T-130B Boring Holder T-130A Boring Holder T-120L Cutting Off Holder 75D-10(-AR16) Outer Diameter Rotary tool

Work Sample





	Max turning diameter (Chuck work)	φ 100mm		
Capacity	Max.turning diameter (Bar work)	φ 38mm		
	Max turning length	100mm		
Spindle	Spindle speed	MAX,5,000min ⁻¹		
	Number of spindle speed ranges	Step-less(S4 digits)		
	Through hole diameter	MAX, φ 38mm		
Turret slide	Number of tools	12		
	Indexing time	0.5sec/1pos		
	Tool size	16mm		
Rapid traverse	X-axis rapid traverse	15m/min		
	Z-axis rapid traverse	20m/min		
	Y-axis rapid traverse	10m/min		
Travel of tool slide	X-axis travel	150mm		
	Z-axis travel	250mm		
	Y-axis travel	70mm		
Rotary tools	Spindle speed	MAX.5,000min ⁻¹		
Motors	Spindle drive motor	3,7/5,5kW		
	Feed motors (X/Z/Y)	1.2kW		
	Turret index	0.75kW		
	Rotary tools spindle motor	0.9/2.2kW		
etc.	Required electric power	3φAC200V50/60HZ 10KVA		
	Height of machine	1,640mm		
	Height from floor to spindle center	1,137mm		
	Floor space	1,820×1,610mm		
	Mass of machine	Approx.2,000kg		

Accessories

- Collet chuck type S
- Hvdraulic unit chuck unit
- *Coolant device with chiptank (Spindle side 250W, Tool side H/p 400W)

- · Work light · Tools and toolbox
- Machine mount
- Hydraulic unit

CNC Standard Specifications

	KNC & FANUC 0i - TD				
	Simultaneously controllabel 3 axes,2 axis in manual mode				
	MDI keyboard input,combined use of absolute/incremental programm				
pacity	1280m tape				
	Linear,taper,circular,threading				
nt	0,0001mm				
X axis	0.00005mm				
Z axis	0.0001mm				
C axis	0.0001deg				
Geometry	±999_9999				
Wear	±9.9999				
	64pairs				
le programs	400parts				
	0.5/0.1/0.01/0.001mm				
	M2(Multiple commands 3),S4,T4 digits				
	0~150%				
de	F0,25,50,100%				
ce	RS232C/Memory card				
	Japanese/English/Traditional Chinese/Simplified Chinese/French/ German/Italian/Spanish/Korean				
	x axis Z axis C axis Geometry Wear				

Others Specifications

- Canned cycles (G90,G92,G94)
- Inch/metric conversion
- Multiple repetive cycles (G70~G76)
- Background editing
- Run hour and parts count display
- · Graphic function
- Canned cycles for drilling (G80~G89)
- Cylindrical interpolation (G107)
- Variable lead threading (G34)
- Custom macro B
- Extended part program editing
- Sequence number search
- Unexpected disturbance torque detection
- Rigidtapping

- Programmable data input (G10)
- · G code system B
- Constant surface speed control
- * Direct drawing dimension programming
- Tool nose radius compensation
- · Conversational programming with graphic function
- Polar coordinate interpolation (G112 G113)
- Threading retract
- *Directory display of floppy cassette
- Workpiece coordinate system (G52~G59)
- *Additing of custom macro common variables
- Multiple repetitive cycle II
- Cs contouring control

Example optional specifications





Oil temp controller



Chip conveyor



Signal Tower



Chuck Foot switch



preset counter





Power chuck



Precision air chuck







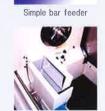
Parts conveyor



Work stocker



Oil mist collector



Parts catcher

- * Variety chucks
- * Variety tool holders
- Oil mist spray
- · Parts feeder
- Operation panel language English/Chinese
- Variety robots & Loader
- Spindle motor power up
- Spindle Thtough hole diameter up
- High pressure coolant pump
- Spindle inner coolant.
- Variety bar feeder system

*Please feel free to contact us for other options of customization to your specifications,

XThe above specifications may be different from the photograph.

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●Note: Specifications subject to change without notice forimprovements and modifications