

TXseries

TX=80/80T

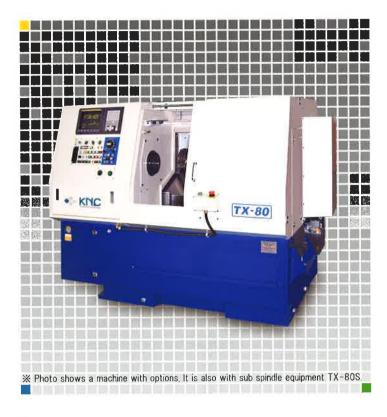
Small Type Precision CNC Turret Lathe (T type : with tail stock)

TX-80/80T

It is the stable high-speed high precision in the good small turret lathe of operativity, and is efficiency up.

With excellent operability and performance, opens up new turret lathe's possibilities.

Since making its first appearance in 1983, the [TX-80 series] has evolved over the years. Now, the series is renovated,



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 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

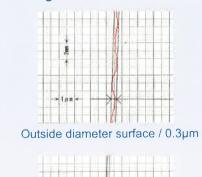
Machined material: BsBM Spindle speed : 3000rpm Feed : 0.03mm rev

Cutting depth : 0.02mm(dius diameter) Tool used : Compax Nose R0.3

Roundness



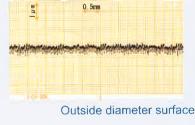
Straightness

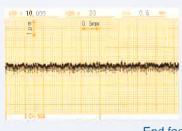




End face / 0.3µm

Finished surface roughness



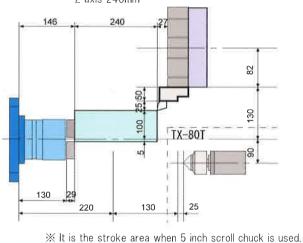


End face

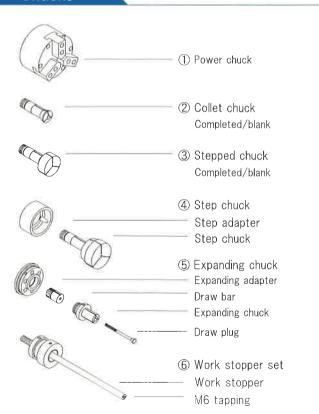
Tooling Area



X axis 105mm ●Effective stroke Z axis 240mm



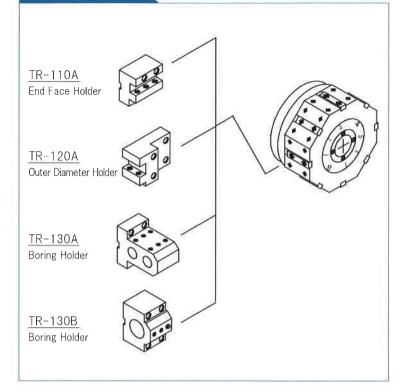
Chucks



 \divideontimes $\widehat{\textcircled{1}}$ is standard specification and others are all options.

- Others chuck
- S type collet chuck
- Vacuum chuck
- Standard chucking system
- Super precision air chuck i Rotary hydraulic cylinder open center

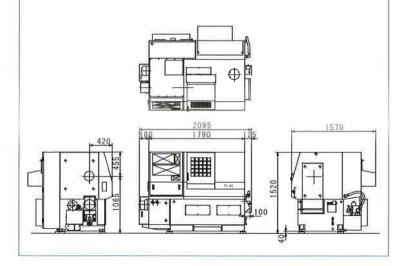
Tool Holder



Work Sample



Outline Dimensional Diagram



Capacity	Max.turning diameter (Chuck work)	φ110mm	
	Max turning diameter (Bar work)	φ 42mm	
	Max.turning length	180mm	
Spindle	Spindle speed	MAX,5,000min ⁻¹	
	Number of spindle speed ranges	Step-less(S4 digits)	
	Through hole diameter	MAX. φ 42mm	
Turret slide	Number of tools	8	
	Indexing time	0.5sec/1pos	
	Tool size	16mm,20mm	
Rapid traverse	X-axis rapid traverse	15m/min	
	Z-axis rapid traverse	15m/min	
Travel of tool slide	X-axis travel	105mm	
	Z-axis travel	240mm	
Motors	Spindle drive motor	7.5/11kW	
	Feed motors (X/Z)	X:1,2kW Z:1.2kW	
etc.	Required electric power	3 φ AC200V50/60HZ 12KVA	
	Height of machine	1,520mm	
	Height from floor to spindle center	1,065mm	
	Floor space	2,095×1,570mm	
	Mass of machine	Approx.2,500kg	

CNIC	Clanda	d Cooo	ifications
CINC	Standa	u opec	mealions

CNC Stand	aru Spe	Cilications	
Control unit		KNC & FANUC 0i - TD	
Controlled axes		Simultaneously controllabel 2 axes,2 axis in manual mode	
Input method		MDI keyboard input, combined use of absolute/incremental programmin	
Program memory capacity		1280m tape	
Interpolation		Linear,taper,circular,threading	
Least input increment		0.0001mm	
Least command	X axis	0,00005mm	
increment	Z axis	0.0001mm	
Tool offset	Geometry	±999,9999	
Toororiset	Wear	±9.9999	
Tool offset pairs		64pairs	
Number of registerable programs		400parts	
Manual handle feed		0.5/0.1/0.01/0.001mm	
Auxiliary function		M2(Multiple commands 3),S4,T4 digits	
Feed rate override		0~150%	
Rapid trverse override		F0,25,50,100%	
Input/output interface		RS232C/Memory card	
Display language		Japanese/English/Traditional Chinese/Simplified Chinese/French/ German/Italian/Spanish/Korean	

Others Specifications

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

- 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
- ■Threading retract
- Directory display of floppy cassette
- ■Workpiece coordinate system (G52~G59)
- Additing of custom macro common variables
- *Multiple repetitive cycle II

Example optional specifications



Hvdraulic chuck unit

Coolant device with chiptank

(Spindle side 250W, Tool side H/p 400W)

€ 5inch Scroll chuck

NC Servo Loader



Oil temp controller

Collet chuck type S

Parts conveyor



Hydraulic unit

Tools and toolbox

Machine mount

· Work light

Chip conveyor

Power chuck

Work stocker



Signal Tower



Chuck Foot switch



Precision air chuck



Simple bar feeder



Oil mist collector

http://www.jknc.co.jp/





Parts catcher

- Variety chucks
- Variety tool holders
- Oil mist spray
- Parts feeder
- Operation panel language English/Chinese
- Variety robots & Loader
- Auto door
- 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,

*The above specifications may be different from the photograph.

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●The products may fall under the category of strategic materials regulated in accordance with the Foreign Exchange and Foreign Trade Law. Their export is required to have permissions under the said law.

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