

# Accurately Performing FTC High Precision CNC Lathe Series

High Performance Lead To Increased Productivity

PRECISION DEFENDER  
CNC PRECISION MACHINE SERIES



ISO 9001



Quality Management  
QC011

# FTC-05 HIGH PRECISION LATHE

High Performance Lead To Increased Productivity

**Best Choice in high precision parts turning lathe**  
Suitable for special purpose machining and small lot flexible machine. Compact construction with small footprint of 2 x 2 meter for saving space. Easy for installation.



Easily to choice the high speed living-tool spindle system.



Precision Air Chuck (option)  
Chuck size may be specified by customers



# FTC-10 HIGH PRECISION LATHE

High Performance Lead To Increased Productivity

**Best rigidity, precession and stability!**  
The machine construction of high quality casting iron that is tempered to relieve stress. Slideways are hardened with high frequency heat treatment and ground to assure high operation performance and long life.



Gang + Turret Tool System(OPT)  
Gang Type + Turret  
flexible for every machining.



Working Sample  
Suitable machining for optical element  
medical care appliances, automobile and  
motorbike component and 3C parts.



# FTC-15 HIGH PRECISION LATHE

High Performance Lead To Increased Productivity

**Perfect cutting ability reflect.**  
Suitable for machining optical element medical care appliances, automobile (motorbike) , aviation (aerospace) and electronic component.



Servo Turret  
The turret positioning is driven by a servo motor combined with hydraulic locking, providing fast tool change and high positioning accuracy. The servo turret is also excellent for heavy cutting and superior in stability.



Manually Hydraulic Tailstock  
Convenient and Practical Tailstock, friendly sliding and choose standard manual lock type, or optional programmable type.



# FTC-23L/FTC-26L

**HIGH PRECISION LATHE**  
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## Linear Guide Way Type

**State-of-the-Art technology! A perfect combination of accuracy and efficiency!**

Designed and manufactured by the concept of pursuing excellence, the FTC-23L CNC lathe has been fully recognized by domestic and overseas customers for their outstanding performance. The FTC-23L series is a profitable performer for parts machining in automotive, motorbike and machinery industries.

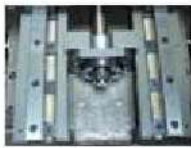


### Servo Turret

The turret positioning is driven by a servo motor combined with hydraulic locking, providing fast tool change and high positioning accuracy. The servo turret is also excellent for heavy cutting and superior in stability.



Hydraulic units imported from European brand (or equivalent) are used for the models of whole series, which provides a reliable pressure.



### Precision Ball Screw

The X-axis movement is transmitted by C1 class ball screw and the Z-axis employs pre-tensioned to reduce thermal deformation to a minimum while ensuring superior feed accuracy.



The control circuit employs German Moller (or equivalent) electronic parts, assuring maximum control and stability under long time operation and long service life.



### Extra Wide Span Between Linear Ways

The X,Z-axis are equipped with Japanese high precision linear ways, featuring feed. This combines with extra wide span between linear ways on Z-axis for greatly upgrading cutting rigidity and stability.



# FTC-23B/FTC-26B

**HIGH PRECISION LATHE**  
High Performance Lead To Increased Productivity

## Box Way Type

**Perfect cutting ability reflect.**

Suitable for machining optical element medical care appliances, automobile (motorbike), aviation (aerospace) and electronic component.

Humanized operation interface, easily run and maintained. The complete enclosure safety guards, the operator conforms nowadays-environmental safety regulations.



### Thermal dissipation design for spindle head

Spindle module is designed for thermal dissipation function, can disperse heat on spindle bearing. Also provide the best machining performance and the highest torque.



### Optimization structure design

X/Y axis with pretension design, ball screw of X,Z axis standard with C1, C3 class and P4 class high precision bearing. It provides high accuracy of machining jobs and suppression thermal displacement.



### Standard with servo turret

Tool orientation with servo motor and locked by hydraulic, which provides high precision position, reduce tool change time and stable cutting performance during machining.



### Manually hydraulic tailstock

Standard with manually tailstock can be moved and fixed according to work piece, provide more stable and rigidity of work piece clamping. Optional with programmable tailstock and removable points live center, provide more convenience application.

# Accessory

## Power tool turret for C-axis Machining(OPT)



Drawing of C-axis Machining



### Tool specifications for C axis

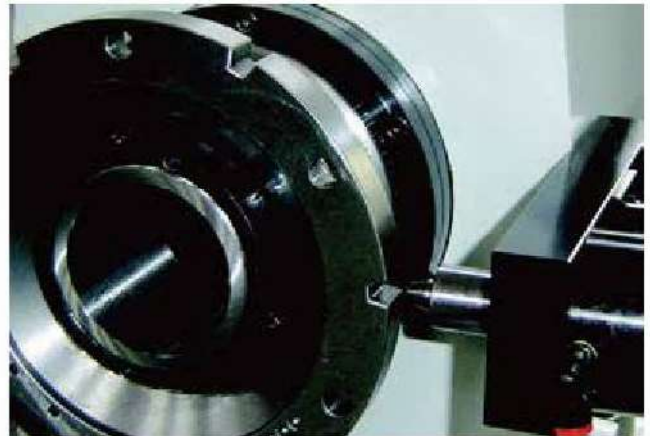
	FTC-05	FTC-10	FTC-15	FTC-20	FTC-26
O.D tool	□12m/m	□16m/m	□20m/m	□25m/m	□25m/m
Boring tool	φ20	φ20	φ25	φ25	φ32
Tool collect	C20-φ8, φ10, φ12, φ16,	C20-φ8, φ10, φ12, φ16,	C20-φ8, φ10, φ12, φ16, φ20,	C25-φ8, φ10, φ12, φ16, φ20,	C32-φ10, φ12, φ16, φ20, φ25,

### Oil mist filter (optional)



Providing more clean working environment also reduce oil mist during machining.

### Convenience spindle lock (FTC-10 & FTC-05)



Special convenience spindle lock design that provide with quick and easy spindle chuck change for saving working time.

### Automatically machine robot (optional)



Precision automatic arm design with automation operation, facilitates integral automation easily and increases production efficiency tremendously.

### Bar-Feeder (optional)



The Barfeeder can feed the material automatically, which not only facilitates integral automation easily, but also increases production efficiency tremendously.

### Removable coolant tank



The removable coolant tank effectively isolates heat transfer and it is easy to clean. (FTC-05 N/A)

# Model

Model	FTC-05		FTC-10		FTC-15		FTC-23		FTC-26		FTC-30		Standard accessories
	FTC-05	FTC-10	FTC-15	FTC-23	FTC-26	FTC-30	FTC-26L	FTC-30B	FTC-30L				
Swing Over Bed	180mm	250mm	480mm	600mm	600mm	650 mm							Hydraulic chuck (FTC-15,23,26) Servo turret (FTC-05 OPT)
Swing Over Top Slide	120mm	120mm	260mm	350 mm	380 mm	420 mm							Tool station facing holder 1 set Boring tool holder 4 sets
Distance between Center	N/A	N/A	430mm	625/925/1225 mm	625/925/1225 mm	625/925/1225 mm							ID steeves 8,10,12,16,20,25-each 1pc (Depend to the machine model)
Max. Cutting Diameter	90mm	120mm	210mm	250 mm	250 mm	300 mm							Soft jaw 1 set
Max. Cutting Length	90mm	120mm	370mm	580/850/1150 mm	580/850/1150 mm	580/850/1150 mm							Hydraulic tailstock (FTC-15,23,26) Removable coolant tank
Angle of the Machine bed	0	15	30	30	30	30							Auto lubrication system
AC Spindle Motor	AC 3/5 HP	AC 7.5/10 HP	AC 11kw/15 HP	AC 15kw/20 HP	18.5kw/25HP	22kw/29HP							Chip conveyor (FTC-15,23,26) Heat exchanger for electrical cabinet
Spindle Speed	6000RPM	100-5000RPM	4200RPM	4200 RPM	3000 RPM	2500 RPM							Foot switch RS-232 interface
Spindle nose	A2-4	A2-5	A2-6	A2-6	A2-8	A2-8							Work lamp Warning lamp
Spindle Hole	35mm	52mm	65mm	62mm (75mm OPT)	92mm (105mm OPT)	105mm OPT							Leveling bolts & pads Toolbox
Through Bar Capacity	25.4mm	42mm	52mm	52mm (65mm OPT)	75mm (92mm OPT)	92mm OPT							Machine, electrical and instruction manual
Spindle Front Bearing I.D.	55 mm	70mm	100mm	100mm	130mm	140mm							
Chuck Size	5C(5" chuck)	6"(F-48C)	8"	8"(F-58C)	10"	10" (12" OPT)							
Tailstock Taper	N/A	N/A	MT#4	MT#4 (MT#5 OPT)	MT#4/MT#5(OPT)	MT#5							
Tailstock Quill Diameter	N/A	N/A	80mm	80mm	80mm	100mm							
Tailstock Quill Travel	N/A	N/A	70mm	70mm	80mm	80mm							
Tailstock Body Travel	N/A	N/A	320mm	550/850/1150 (mm)	550/850/1150 (mm)	550/850/1150 (mm)							
X-Axis Travel	200mm	250mm	175mm	165mm+40	165mm+40	210mm+30							
Z-Axis Travel	180mm	250mm	375mm	600/900/1200mm	600/900/1200mm	600/900mm							
X-Axis Rapid Speed	12m/min	15m/min	20m/min	20m/min	20m/min	20m/min							
Z-Axis Rapid Speed	12m/min	15m/min	20m/min	20m/min	20m/min	20m/min							
Min. Input Increment	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm							
Square Shank Tool Size	16mm	20mm	25mm	25mm	25mm	25mm							
Max. Boring Tool Diameter	20mm	20mm	32mm	40mm	40mm	50mm							
Number of Tools	Gang type	8+Gang type	10	10(12 OPT)	10(12 OPT)	8 (10 OPT)							
Change Tool Times	N/A	11 sec	1.2 sec	1.2 sec	1.2 sec	1.4sec							
Coolant Pump Motor	1/4 HP	1/2 HP	1 1/2 HP	3/4 HP	1 1/2 HP	1 1/2 HP							
Machine Dimension	1450*1350*1550mm <sup>3</sup>	2000*1350*1650mm <sup>3</sup>	2250*1700*1700mm <sup>3</sup>	2750*1900*1800mm <sup>3</sup>	3000*1900*1950mm <sup>3</sup>	3000*1900*2000mm <sup>3</sup>							
Floor Space (LxW)	2000*2000mm <sup>2</sup>	2500*3000mm <sup>2</sup>	3500*2500mm <sup>2</sup>	3600*2500mm <sup>2</sup>	3600*2500mm <sup>2</sup>	3600*2500mm <sup>2</sup>							
Packing Dimension (LxWxH)	2080*1460*1960mm <sup>3</sup>	2640*1600*2250mm <sup>3</sup>	3250*2250*2050mm <sup>3</sup>	3850*2290*2150mm <sup>3</sup>	4000*2290*2150mm <sup>3</sup>	4000*2290*2150mm <sup>3</sup>							
Machine Net Weight	1500 kg	2150 kg	3600 kg	5050/5550/6100 kg	5200/5700/6250 kg	5350/5850/6400 kg							
Machine Gross Weight	1980 kg	2400 kg	3850 kg	5500/6050/6700 kg	5650/6200/6850 kg	5800/6350/6950 kg							

Sizes and specifications shown in this catalogue are subject to change without prior notice.

Remark B: Box-Way Type

L: Linear Guide Way Type

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## Optional Accessories

- Hydraulic chuck (FTC-05,10)
- Work-piece conveyor
- Tool length measurement
- Oil mist filter
- Oil skimmer
- Bar-feeder interface
- Power tool
- Auto power off
- Programmable tailstock
- VDI turret
- Index type 42, 52, 60 collet chuck (φ42, φ52 or φ60)
- Transformer