

Model

| Model | FTC-05 | FTC-10 | FTC-15 | FTC-23 | | FTC-26 | | FTC-30 | |
|----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------|-------------------------------|---------|-------------------------------|---------|
| | | | | FTC-23B | FTC-23L | FTC-26B | FTC-26L | FTC-30B | FTC-30L |
| Swing Over Bed | 180mm | 250mm | 480mm | 600mm | | 600 mm | | 650 mm | |
| Swing Over Top Slide | 120mm | 120mm | 260mm | 350 mm | | 380 mm | | 420 mm | |
| Distance between Center | N/A | N/A | 430mm | 625/925/1225 mm | | 625/925/1225 mm | | 625/925/1225 mm | |
| Max. Cutting Diameter | 90mm | 120mm | 210mm | 250 mm | | 250 mm | | 300 mm | |
| Max. Cutting Length | 90mm | 120mm | 370mm | 580/850/1150 mm | | 580/850/1150 mm | | 580/850/1150 mm | |
| Angle of the Machine bed | 0 | 15 | 30 | 30 | | 30 | | 30 | |
| 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 | |
| Spindle Speed | 6000RPM | 100~5000RPM | 4200RPM | 4200 RPM | | 3000 RPM | | 2500 RPM | |
| Spindle nose | A2-4 | A2-5 | A2-6 | A2-6 | | A2-8 | | A2-8 | |
| Spindle Hole | 35mm | 52mm | 65mm | 62mm (75mm OPT) | | 92mm (105mm OPT) | | 105mm OPT | |
| Through Bar Capacity | 25.4mm | 42mm | 52mm | 52mm (65mmOPT) | | 75mm (92mm OPT) | | 92mm OPT | |
| 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#5OPT) | | 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 | 24m/min | 20m/min | 24m/min | 20m/min | 24m/min |
| Z-Axis Rapid Speed | 12m/min | 15m/min | 20m/min | 20m/min | 24m/min | 20m/min | 24m/min | 20m/min | 24m/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 (32mm OPT) | |
| 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 | 1.1 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 | | 1 1/2 HP 1 1/2 HP | |
| Machine Dimension | 1450*1350*1550mm ³ | 2000*1350*1650mm ³ | 2250*1700*1700mm ³ | 2750*1900*1800mm ³ | | 3000*1900*1950mm ³ | | 3000*1900*2000mm ³ | |
| Floor Space (LxW) | 2000*2000mm ² | 2500*3000mm ² | 3500*2500mm ² | 3600*2500mm ² | | 3600*2500mm ² | | 3600*2500mm ² | |
| Packing Dimension (LxWxH) | 2080*1460*1960mm ³ | 2640*1600*2250mm ³ | 3250*2250*2050mm ³ | 3850*2290*2150mm ³ | | 4000*2290*2150mm ³ | | 4000*2290*2150mm ³ | |
| 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

Standard accessories

- Hydraulic chuck (FTC-15,23,26)
- Servo turret (FTC-05 OPT)
- Tool station facing holder 1 set
- Boring tool holder 4 sets
- I.D sleeves 8,10,12,16,20,25-each 1pc (Depend to the machine model)
- Soft jaw 1 set
- Hydraulic tailstock (FTC-15,23,26)
- Removable coolant tank
- Auto lubrication system
- Chip conveyor (FTC-15,23,26)
- Heat exchanger for electrical cabinet
- Foot switch
- RS-232 interface
- Work lamp
- Warning lamp
- Leveling bolts & pads
- Toolbox
- Machine, electrical and instruction manual

Optional Accessories

- Hydraulic chuck (FTC-05,10)
- Work-piece conveyor
- Tool length measurement
- Oil mist collector
- 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

Accurately Performing FTC High Precision CNC Lathe Series

High Performance Lead To Increased Productivity



AEGIS PRECISION MACHINERY CO.,LTD.

Taiwan Office :

No.3-18, Jioushe Rd, Houli Dist, Taichung City 42148, Taiwan.

TEL:+886-4-25590525 / FAX:+886-4-25590387

Http://www.first-chant.com / E-mail:fce@first-chant.com

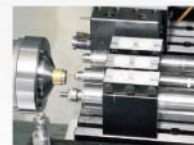


FTC-05 HIGH PRECISION LATHE

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/26L/30L HIGH PRECISION LATHE

High Performance Lead To Increased Productivity

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/26B/30B 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.



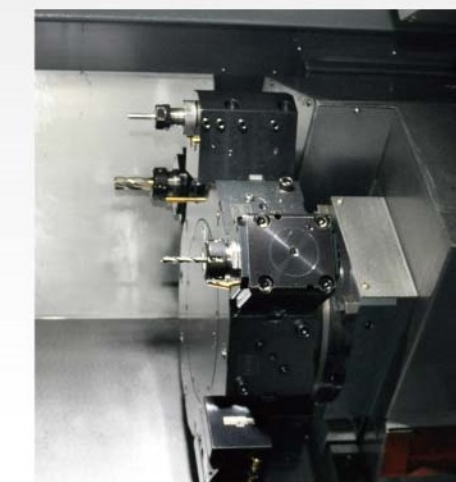
Standard with servo turret
Tool orientation with servo motor and locked by hydraulic, which provides high precision position, reduce tool change time and stable cutting performance during machining.



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



C-Axis Machining

X-C Axis Machining

Z-C Axis Machining

Tool specifications for C axis

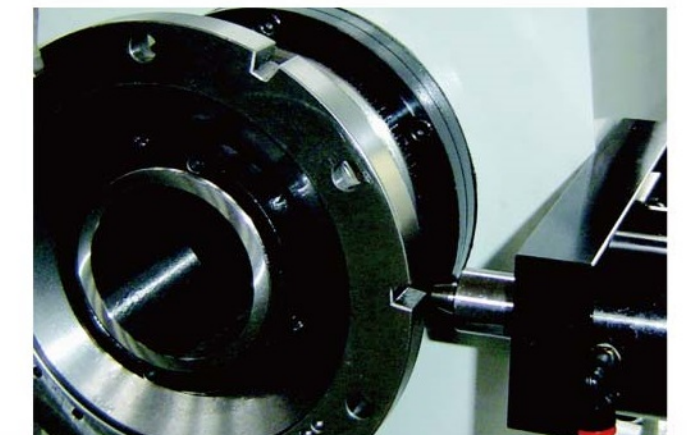
| | FTC-05 | FTC-10 | FTC-15 | FTC-20 | FTC-26 |
|--------------|------------------------|------------------------|-----------------------------|-----------------------------|------------------------------|
| O.D tool | □20m/m | □16m/m | □20m/m | □20m/m | □25m/m |
| Boring tool | φ20 | φ20 | φ25 | φ25 | 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 collector (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)