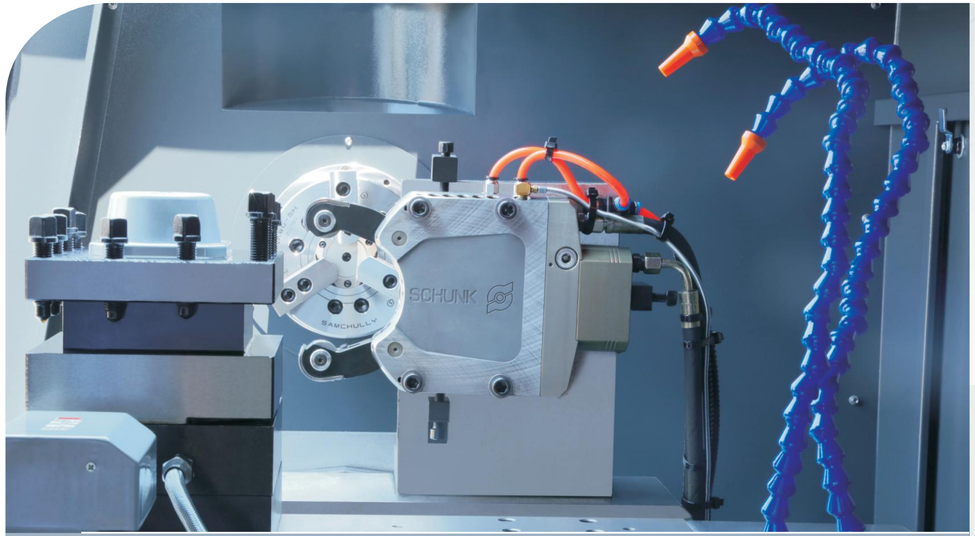
FLASH FTL SERIES

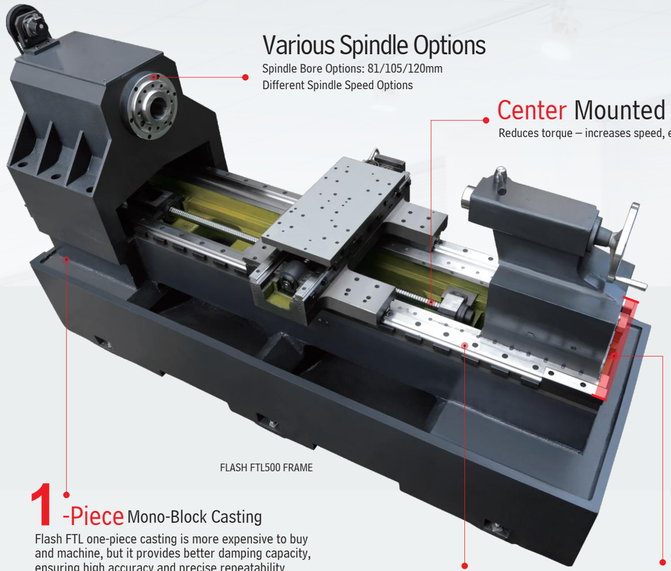


Machine Characteristics

- The tailstock is set on its own guide way, parallel to the main bed ways. This structure is highly rigid and accurate.
- Linear guideways are protected by telescoping stainless steel covers – maximizing ball screw protection and extending tool life.
- Center mounted ball screws eliminate torque – providing better dynamic properties and greater stability over the life of the machine.
- Servo drives on X/Z axes. Spindle can be driven by VFD or Servo.
- Various control systems, chucks and tool mounting systems are available.

The World's First and Best Design

You will be hard pressed to find another linear guide way type CNC lathe that has a center mounted ball screw and stainless covers over the full length of the ball screw and guide ways. This unique, Z-MaT patented design provides the perfect combination of long-term speed, accuracy and repeatability for a CNC lathe of this size and design.



FLASH FTL500 FRAME

Various Spindle Options

Spindle Bore Options: 81/105/120mm
Different Spindle Speed Options

Center Mounted Ball Screw

Reduces torque – increases speed, efficiency, accuracy and machine life.

1-Piece Mono-Block Casting

Flash FTL one-piece casting is more expensive to buy and machine, but it provides better damping capacity, ensuring high accuracy and precise repeatability.

Heavy-Duty Linear Guideways

Heavy roller and ball-type linear guideways were selected for this heavy duty machine – so it has the efficiency advantages of linear guides, but also can compete with box ways for stability during heavy cutting operations.

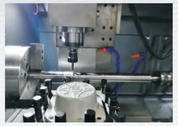
500mm Wide Machine Base

Extra wide machine base adds mass and stability to this heavy-duty lathe designed for heavy-duty turning operations.

Various option features



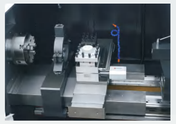
8/12 stations turret



Vertical live tool (Y axis)



Hydraulic steady rest



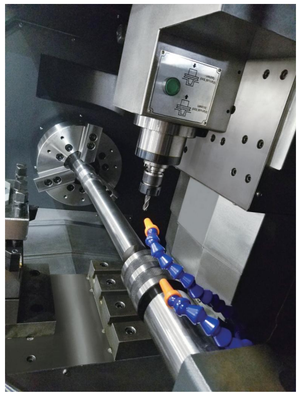
Manual steady rest

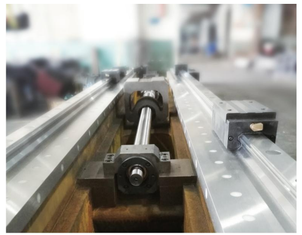


Manual operation box

FLASH FTL SERIES

Flat bed, Tailstock, Linear guideway





Standard Features

- Manual 3-Jaw Chuck
- 4-Station Tool Post Plus Gang Tool Plate
- Manual Tailstock
- Ergonomic Operator Panel Design & MPG
- Automatic Lubrication System
- Automatic Coolant System
- Work Lamp & Built-in Safety Features

Optional Features

- Different Chucks
- Different Control Systems
- 8-Station Turret (except FTL300)
- Hydraulic Tailstock
- Gear Box Spindle
- C Axis & Live Tooling
- C Axis & 12 station Power Turret (for big model)



Full Range of Turning Machines





FTL550-1500

Specifications

		Unit	FTL300	FTL320	FTL400	FTL500	FTL550	FTL660
Capacity	Chuck size	inch	6"	6",*8"	8"	10", *8"	12" , *15"	15",*18"
	Max. swing dia. over bed	mm	Φ300	Φ400	Φ400	Φ500	Φ550	Φ700
	Max. length of workpiece	mm	180	Collet: 380, Chuck: 320 *300(8 station turret)	650(C2C) 500(chuck) 450(turret)	700/1000/1500/2000(C2C) 550/850/1350/1850(chuck) *450/750/1250/1750 (turret)	700/1000/1500/2000/3000(C2C) 550/850/1350/1850/2850(chuck) *450/750/1250/1750/2750 (turret)	1000/1500/2000/3000(C2C) 800/1300/1800/2800(chuck) *700/1200/1700/2700 (turret)
	Max. swing dia. over slide	mm	Φ135	Φ140	Φ250	Φ350	Φ350	Φ480
Spindle	Spindle bore	mm	Φ48 *Φ55	Φ55 *Φ62	Φ62	Φ83 *Φ62	Φ105 *Φ105 *Φ120	Φ120, *Φ135, *Φ162
	Max dia. of through hole	mm	Φ40 *Φ46	Φ46 *Φ52	Φ52	Φ75 *Φ52	Φ91 *Φ91 *Φ110	Φ110, *Φ120, *Φ150
	Spindle nose		A2-5 *A2-5	A2-5 *A2-6	A2-6	A2-8 *A2-6	A2-11 *A2-8 *A2-11	A2-11
	Spindle speed	rpm	3000 *2500 *4500 *4500 *5000	2500 *2000 *4500 *4000 *5000	2000 *4000	1600 *2000 *2500 *4000	1000 *2000 *1000	1000 *800
	Max. power of spindle	kW	5.5, *7.5	5.5, *7.5	7.5, *11	11, *15,*18.5	15, *18.5	15, *18.5
Axis	X/Z travel	mm	250/200	280/380	280/650	280/700,1000,1500,2000	280/700,1000,1500,2000,3000	370/1000, 1500, 2000,3000
	X/Z rapid traverse	m/min	15/15,*25/25	25/15,*25/25	15/15, *20/20	15/15, *20/20	15/15, *20/20	15/15, *20/20
Tool post	Type		4-station toolpost *gang type tooling	4-station toolpost *8-station turret *gang type tooling	4-station toolpost *8-station turret *gang type tooling	4-station toolpost *8-station turret *gang type tooling	4-station toolpost *8-stations turret *gang type tooling	4-station toolpost *8-stations turret *gang type tooling
	No. of tool stations	nos	4+2	4+2, *8+2	4+2, *8+2	4+2, *8+2, * Driven 12	4+2, *8+2, *Driven 12	4+2, *8+2
Tailstock	Tailstock type		Manual,* Hydraulic	Manual,* Hydraulic	Manual, * Hydraulic	Manual, *Hydraulic	Manual, *Hydraulic	Manual, *Hydraulic
	Taper of quill	MT	MT4	MT4	MT4	MT5	MT5	MT5
	Travel of tailstock quill	mm	80	80	100	100	100	100
Structure	Bed type /guideway		Flat/LM	Flat/LM	Flat/LM	Flat/LM	Flat/LM	Flat/LM
	Bed width	mm	300	400	405	500	500	680
Others	Power capacity	kVA	9	13	13	15	18	18
	Dimensions (L×W×H)	mm	1800×1580×1600	2310×1650×1850	2800×1575×1900	3005×1715×2075 (shortest)	3005×1715×2075 (shortest)	3820×1950×2000(shortest)
	Weight (about)	kg	1900	3100	3700	4400/4800/6000/7100	4500/5000/6100/7200	5400/6800/7600

Note: "*" means optional, "N/A" means not available, "LM" means linear motion guide way. Dimensions are only list the shortest length model.
Different chucks and toolposts will affect the real Max. cutting length capacity-
C2C: Spindle center to Tailstock center; Chuck: Spindle 3 jaws chuck to tailstock; Turret: 3 jaws chuck to tailstock while configured with 8/12 stations turret.