



FLASH FTL SERIES

FTL300/FTL320/FTL400/FTL500/FTL550



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
- Hydraulic Tailstock
- Bar Feeder
- C Axis & Live Tooling
- C Axis & 12 station Power Turret



Specifications

		Unit	FTL300	FTL320 (*T)	FTL400 (*T)	FTL500 (*T)	FTL550 (*T)					
Capacity	Chuck size	type	6"	6", *8"	8"	10", *8"	12", *15"					
	Bed type /guideway		Flat/LM	Flat/LM	Flat/LM	Flat/LM	Flat/LM					
	Max. swing dia. over bed	mm	Φ300	Φ400	Φ400	Φ500	Φ550					
	Max. length of workpiece	mm	180	380(4 toolpost) *300(8 station turret)	650(center to center) 500(chuck to center) 450(8/12 station turret)	1000/1500(center to center) 850/1350(chuck to center) *750/1250 (8/12 station turret)	1000/1500(center to center) 850/1350(chuck to center) *750/1250 (8/12 station turret)					
	Max. swing dia. over slide	mm	Φ135	Φ140	Φ220	Φ260	Φ320					
Spindle	Spindle bore	mm	Φ48	*Φ55	Φ55	*Φ62	Φ62	Φ81	*Φ62	Φ105	*Φ105	*Φ120
	Max dia. of through hole	mm	Φ40	*Φ46	Φ46	*Φ52	Φ52	Φ70	*Φ52	Φ91	*Φ91	*Φ110
	Spindle nose		A2-5	*A2-5	A2-5	*A2-6	A2-6	A2-8	*A2-6	A2-11	*A2-8	*A2-11
	Spindle speed	rpm	3000 *4500	*2500 *4000 *5000	2500 *4000 *5000	*2000 *3500 *4000	2000 *3500	1600 *2500	*2000 *3500 *4000	1000	*1800	*1000
	Main motor power	kW	4.0,*5.5	4.0,*5.5	5.5,*7.5	7.5,*11,*15	11,*15					
Axis	X/Z travel	mm	300/200	280/380	280/650	280/1000, 280/1500	280/1000, 280/1500					
	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					
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-station 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					
Tailstock	Tailstock type		Manual,* Hydraulic	Manual,* Hydraulic	Manual,*Hydraulic	Manual,*Hydraulic	Manual,*Hydraulic					
	Taper of quill	MT	MT4	MT4	MT4	MT5	MT5					
	Travel of tailstock quill	mm	80	80	100	100	100					
Others	Power capacity	kVA	9	13	13	15	18					
	Dimensions (LxWxH)	mm	1800x1580x1600	2200x1500x1600	2500x1400x1500	3400x1600x2010	3400x1600x2010					
	Weight (about)	Kg	1600	2100	2600	4300 / 4800	4500 / 5000					

Note: "*" means optional, "N/A" means not available, "LM" means linear motion guide way.
 "**T" means configured with turret and other higher configuration.

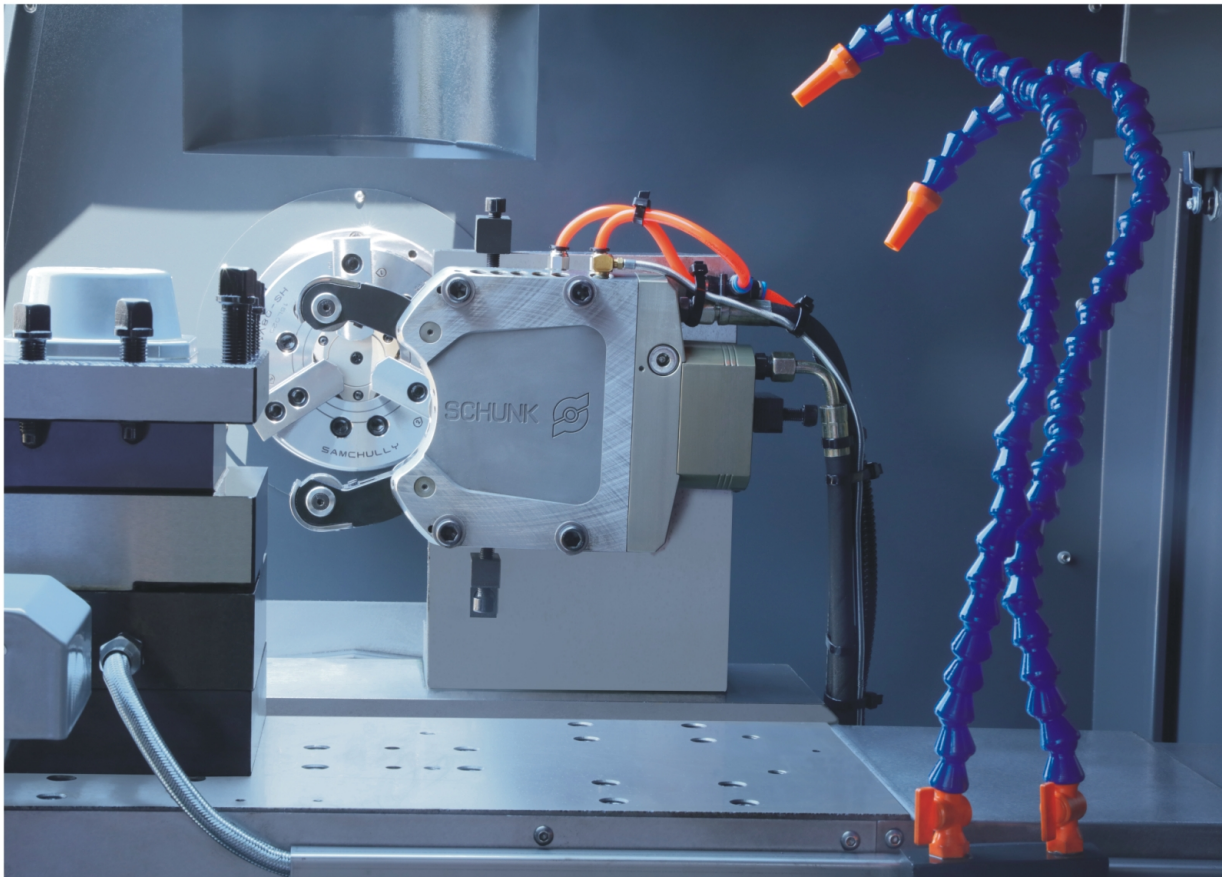
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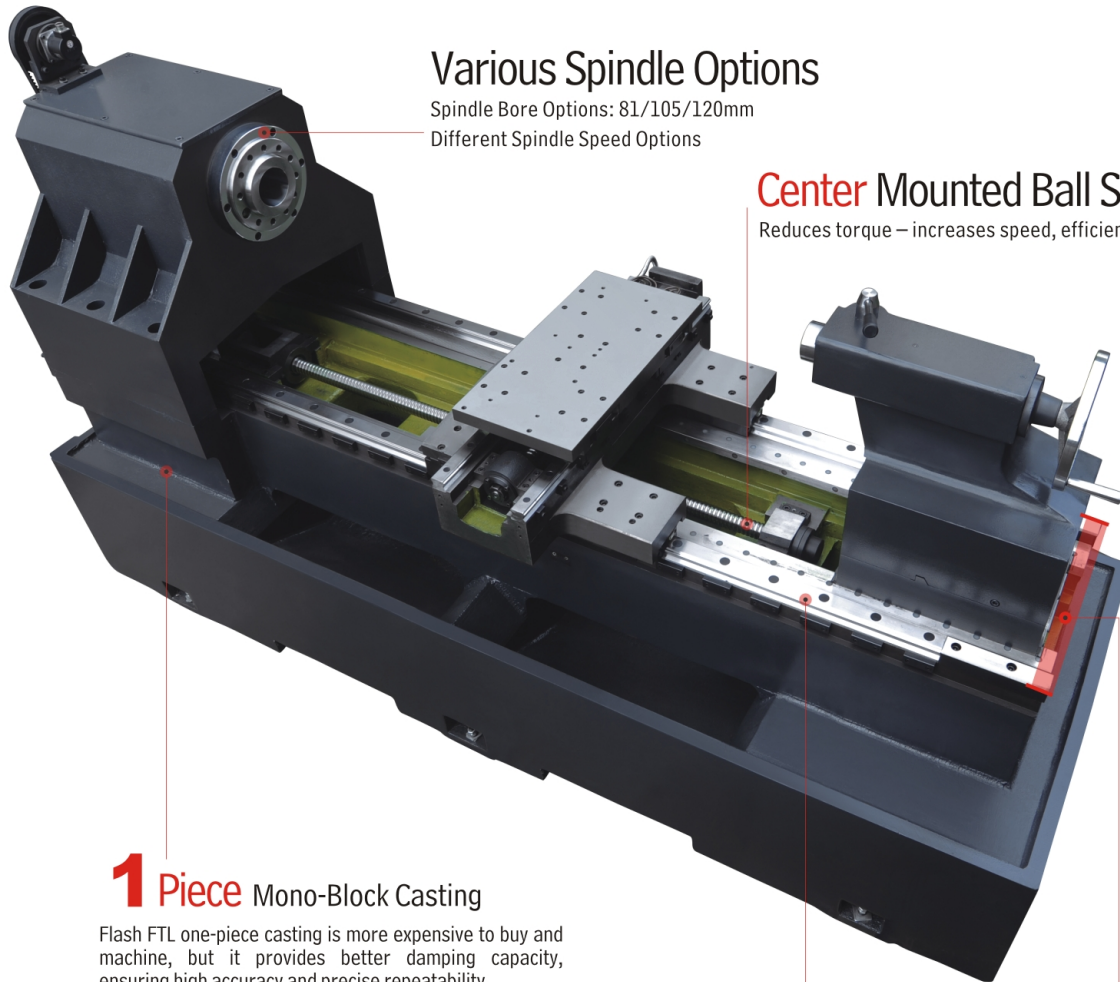


Machine Characteristics

- 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 1.5 meter 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.



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.

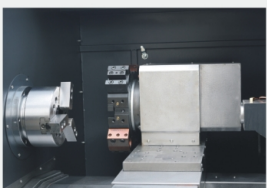
Heavy-Duty Linear Guideways

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.

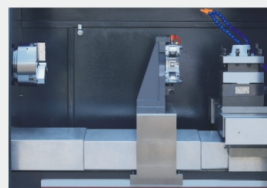
Various option features



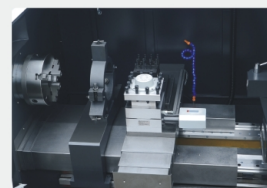
8 stations turret



Vertical live tool (Y axis)



Hydraulic steady rest



Manual steady rest



Manual operation box