



FLASH FL SERIES

FLASH FL280/FL300/FL400/FL500/FL550/FL630



Smart CNC Solutions

FLASH FL 400 CNC LATHE



- One piece flat bed structure, high quality cast iron
- Adjustable operation panel box, ergonomic design
- Servo main motor, high speed and constant torque and rigid threading function is option
- Linear guideway and midside ballscrew reach high precision and good efficiency
- Highly efficient and precision gang type tools. And with option 8 station turret
- C Axis functionality ; The C Axis functionality of the spindle combines Y axis live tools and end milling live tools for milling, and tapping capabilities. With the C Axis functionality complete parts machining becomes faster and easier
 - Y Axis Functionality ; The Y Axis is capable of side milling, drilling and tapping operations when combined with the C Axis functionality. This makes it highly suited for the machining of small complex parts.

FLASH FL SERIES

Flat Bed with Linear Guideways

Machine Characteristics

- Linear Guideways are protected by stainless steel telescoping guards – provides maximum protection from chips and coolant and extended machine life.
- Center mounted ball screws are placed between the bed ways, minimizing side torque and friction. Provides cooler operation, better dynamic efficiency and longer life.
- Servo motors and drives on X/Z axes. Spindle can be driven by VFD or Servo.
- Various control systems, chucks and tool posts are available. Highly configurable to fit your needs.

The FL Series is produced at high volume in our factory - using world standard quality control processes. These facts contribute to the FL lathe's reputation in the world market for excellent quality at a reasonable price. We produce a great machine at a great price, and pass the savings on to you.



Customers report high satisfaction and high productivity with their FL Series CNC Turning Centers. That's why it's one of our biggest selling lathes!



Smart Design – and Powerful

This series allows high flexibility in tooling configurations. A wide range of gang type, turret, milling, and polygon tools can be combined to fit your specific part production task.

Various Spindle Options

Different speeds, spindle bore and chuck options to match your needs

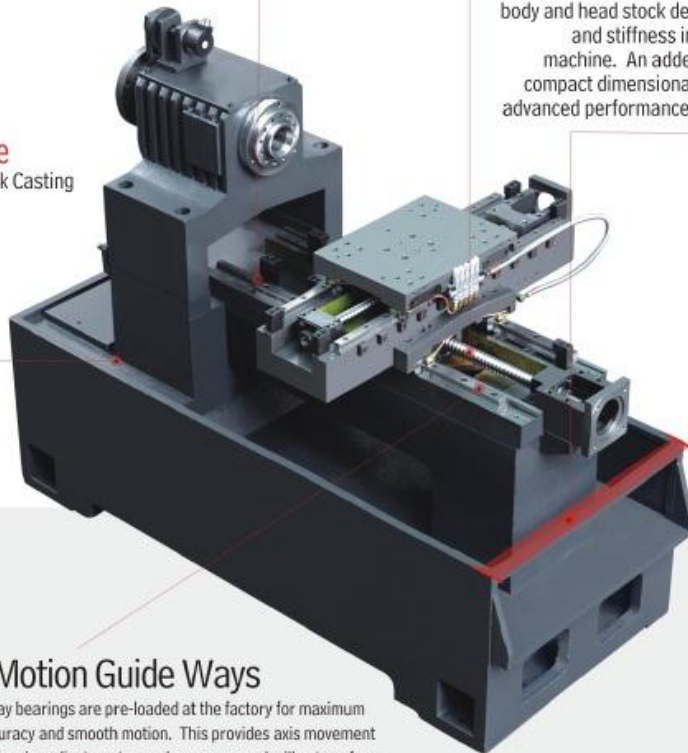
Center Mounted Ball Screws

Ball screws are mounted between the ways – reducing side torque and friction and increasing speed and longevity.

“ Bi-Laterally Symmetrical ”

Complete bi-laterally symmetrical machine body and head stock design increases rigidity and stiffness in all movements of the machine. An added feature bonus is the compact dimensional casting, which keeps advanced performance in a smaller footprint.

1 Piece
Mono-Block Casting



Linear Motion Guide Ways

Linear guideway bearings are pre-loaded at the factory for maximum balance of accuracy and smooth motion. This provides axis movement that does not require adjustment, uses less power and will out-perform standard hard ways. Automatic lubrication system assures optimal lubrication, which maximizes machine life.

MACHINE SPECIFICATIONS

Specifications		Unit	FLASH FL400
Max. Swing diameter over bed		mm	400
Max. Length of workpiece		mm	320
Max. Swing diameter over slide		mm	180
Spindle speed		rpm	4500
Main motor		kw	5.5
Diameter of spindle bore		mm	48
Max. Diameter of through-hole		mm	40
X-Z Axis travel		mm	380/350
X-Z Axis rapid traverse		m/min	20/20
Y Axis	Travel	mm	120-150
	Rapid traverse	m/min	15
Tool	Tool type	mm	8 Station Turret
	No of tool	-	8
	OD of tool	Mm	20x20/ø32
Live tooling	Motor	kw	2 (7.5 Nm)
	No of live tool	-	1-6
	Shank size	-	ER20
	Speed	rpm	3000
Power capacity		kVA	11
Machine overall dimension L-W-H		mm	2400x1750x2350
Machine weight		kg	2500

MACHINE STANDARD ACCESSORIES

- GSK988T Control Unit
- Servo main motor 5.5 kw
- Spindle 4500rpm
- Hydraulic Hollow Collet Chuck
- Y Axis Linear Guideway with servo driver
- 2 Axial + 2 Radial Live Tool
- 8 Station Turret
- Heat Exchanger
- Part Catcher

