



FLASH FL SERIES

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



Standard Features

- Manual 3-Jaw Chuck (FL400 and above)
- Pneumatic Collet (FL280, FL300)
- Gang Type Tooling (For Swing <400mm)
- 4-Station Tool Post + Gang Plate (For Swing >400mm)
- Ergonomic Operator Panel Design
- Automatic Lubrication System
- Automatic Coolant System
- Built-In Safety Features

Optional Features

- Different Chucks
- Different Spring Collets
- Different Control Systems
- Live Tooling
- Bar Feeder
- 8-Station Turret (Available on FL300/ FL400/ FL500/ FL550/ FL630)



Specifications

		Unit	FL280	FL300	FL400	FL500	FL550	FL630
Capacity	Chuck/collet	type	Pneumatic collet *Hydraulic collet	Pneumatic collet *Hydraulic collet, *chuck 6"	Manual chuck 8" *Hydraulic chuck 8", *6"	Manual chuck 10" *Hydraulic chuck 10", *8"	Manual chuck 12" *Hydraulic chuck 12"	Manual chuck 15" *Hydraulic chuck 15"
	Bed type/ guideway		Flat/LM	Flat/LM	Flat/LM	Flat/LM	Flat/LM	Flat/LM
	Max. swing dia. over bed	mm	Φ300	Φ300	Φ400	Φ500	Φ550	Φ650
	Max. length of workpiece	mm	180	300, 180(chuck) *260 (chuck)	320	500	500	450
	Max. swing dia. over slide	mm	Φ120	Φ135	Φ180	Φ360	Φ360	Φ380
Spindle	Spindle bore	mm	Φ37	Φ48 *Φ55 *Φ62	Φ62 Φ48	Φ81 Φ70	Φ105 Φ91	Φ120 Φ110
	Max. dia. of through hole	mm	Φ32	Φ40 *Φ46 *Φ52	Φ52 Φ40	Φ70 Φ52	Φ91 *Φ52	Φ110 Φ120
	Spindle nose		Φ68 1:4 3000	A2-5 3000 *2500 *4000 *5000	*A2-5 2000 3000 *3500 *4000	A2-6 2000 3000 *4500	A2-8 1600 *2500 *3500 *4000	A2-11 1000 *1800
	Spindle speed	rpm						
	Spindle motor power	kW	3	3.7/5.5, *5.5/7.5	5.5/7.5	5.5/7.5, *7.5/11	7.5/11, *11/15	11/15, *15/18.5
Axis	X/Z travel	mm	250/180	350/300	380/350	260/500, *350/500	260/500, *350/500	350/500
	X/Z rapid traverse	mm/min	15/15	25/15, *25/25	20/20	12/9	12/9	20/20
Tool post	Type		Gang type	Gang type *4-station toolpost *8-station turret	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	No.	4-6	4-10	4-10	4-10	4-10	4-10
Others	Power capacity	kVA	8	9	11	12	15	18
	Dimensions (LxWxH)	mm	1700x1200x1550	1700x1200x1550	1950x1250x1620	2650x1360x1800	2650x1360x1800	2650x1360x1800
	Weight(about)	Kg	1300	1800	2000	2700	2800	3000

Note: "*" means optional, "N/A" means not available, "LM" means linear motion guide way.

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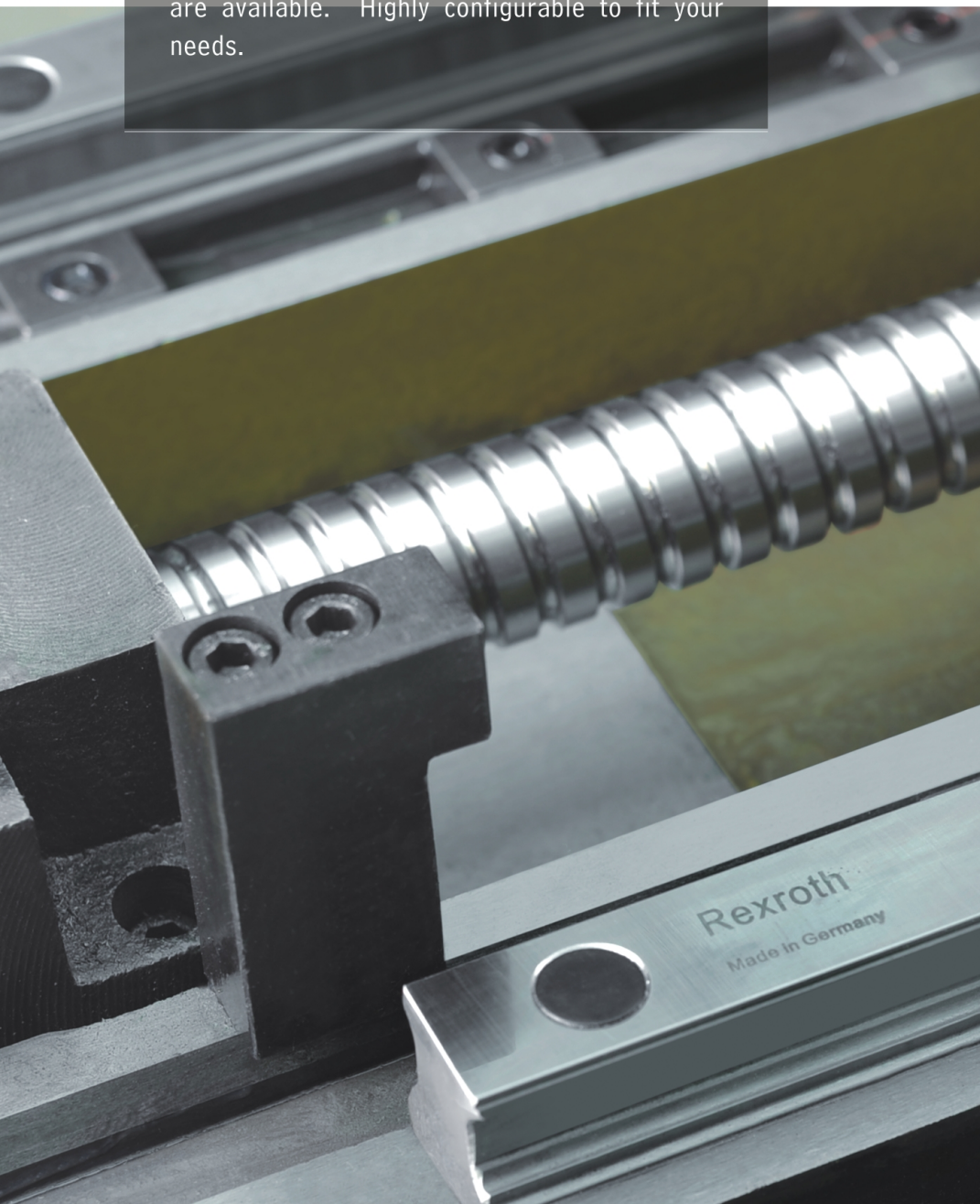
FLASH FL SERIES

Flat Bed with Linear Guideways

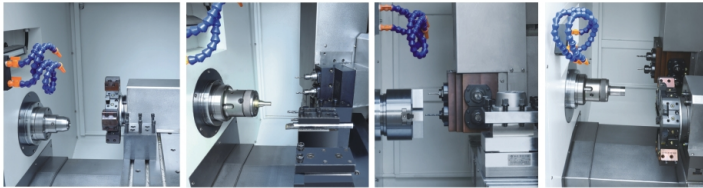
Machine Characteristics

- 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

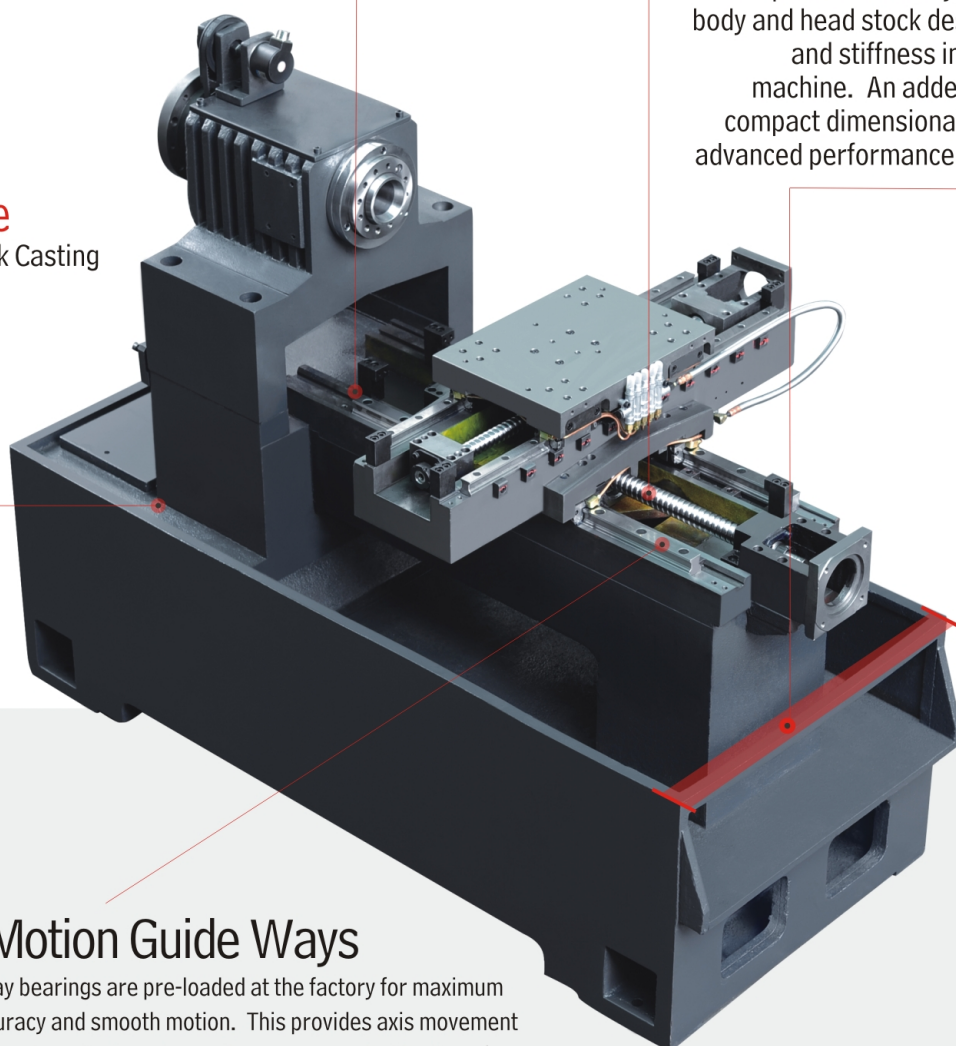
Center Mounted Ball Screws

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.