



HUNTER STH SERIES

STH6/STH8/STH10/STH12



Standard Features

- Manual 3-Jaw Chuck
- 4-Station Tool Post + gang plate
- Manual Tailstock
- Automatic Lubrication System
- Automatic Coolant System

Cost-Effective, Full Production Capable Slant Bed CNC Lathe

There's only one place you'll find this Unique CNC lathe design - Z-MaT!

STH CNC Lathes are designed to provide a cheaper and easier machining option – while providing real production capacity and accuracy. Perfect for R & D, education, manufacturing or just getting a business started. STH Series CNC Lathes are a very affordable option that will allow you to accomplish your machining tasks easier and faster.

Optional Features

- Hydraulic Chuck
- Spring Collet System
- Hydraulic Tailstock
- Different CNC Control Systems
- Different Spindle

Machine Characteristics

- 30 degree slant bed – efficient chip flow and easier operator access
- Ergonomically designed adjustable panel
- Center-mounted ball screw – less torsion and better accuracy
- STH10 and STH12 have cylindrical roller spindle bearings
- The most economical slant bed with tailstock in the market

Specifications

	Unit	STH6	STH8	STH10	STH12			
Capacity	Chuck size	inch	6"	8"	10"	12", *15"		
	Max. swing dia. over bed	mm	Φ300	Φ350	Φ450	Φ520		
	Max. length of workpiece	mm	280, *350(collet)	300, *400(collet)	750	750		
	Max. swing dia. over slide	mm	Φ140	Φ200	Φ250	Φ280		
Spindle	Spindle bore	mm	Φ48	Φ48	Φ62	Φ105	*Φ120	
	Max. dia of through hole	mm	Φ40	Φ40	Φ52	Φ70	Φ91	*Φ110
	Spindle nose		A2-5	A2-5	A2-6	A2-8	A2-11	*A2-11
			3000	3000	2000	1600	1000	*1000
	Spindle speed	rpm	*4500	*4500	*3500	*2500	*1800	
			*2500	*5000	*4000			
Main motor power	kW	4.0	5.5	7.5, *11	11			
Axis	X axis travel	mm	300	280	300	300		
	Z axis travel	mm	280, *350(collet)	300, *400, *500 (collet)	600, 750(between two centers)	600, 750(between two centers)		
	X/Z rapid traverse	m/min	8/12	8/12	9/12	9/12		
Toolpost	Type		4-station toolpost + Gang type tooling	4-station toolpost + Gang type tooling	4-station toolpost+ Gang type tooling, *8-station turret	4-station toolpost + Gang type tooling, *8-station turret		
	No. of tool stations	nos	4-6	4-6	4-6	4-6		
	ODTool shank size	mm	20x20	20x20	25x25	32x32		
Tailstock	Type of tailstock		Manual, *Pneumatic, *Hydraulic	Manual, *Pneumatic, *Hydraulic	Manual, *Hydraulic	Manual, *Hydraulic		
	Taper of tailstock quill		MT3	MT4	MT5	MT5		
	Travel of tailstock quill	mm	100	100	100	100		
	Travel of tailstock	mm	300	400	650	650		
Structure	Slant bed degree		30°	30°	30°	30°		
	Guideway type		Hard	Hard	Hard	Hard		
Others	Power capacity	kVA	8	8	11	15		
	Overall dimension (LxWxH)	mm	1950x1250x1600	2050x1300x1600	2500x1450x1650	2500x1450x1650		
	Weight (about)	Kg	1700	2200	3100	3300		

Note: "*" means optional.

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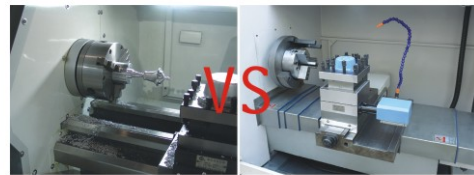
HUNTER SERIES

*Constant Research and
Ongoing Product Refinement*

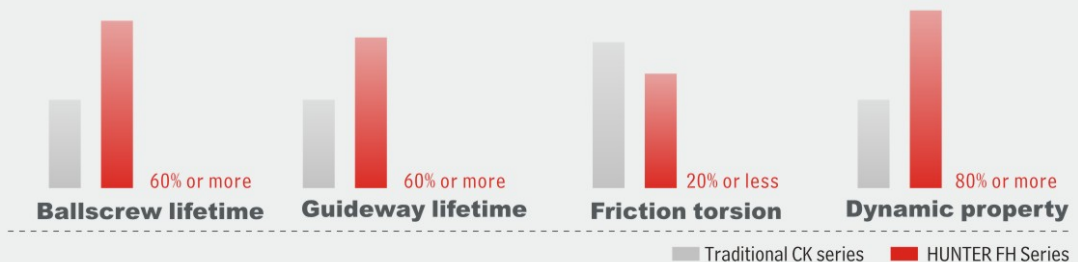
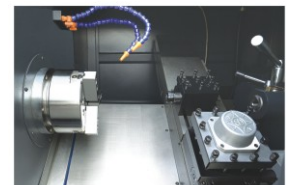
Evolving a Lathe Tradition:

Improving the Flat Bed Box Way
Design for CNC Turning

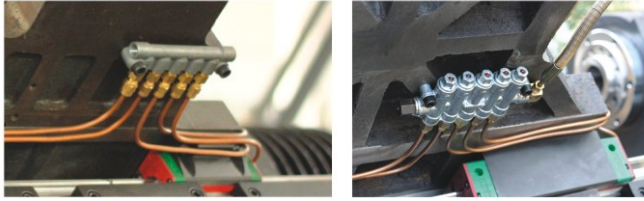
Unlike the old CK CNC lathe design, which has the ball screw mounted on the front side of the lathe bed, the HUNTER Series moved the ball screw to the middle of the lathe bed, between the ways. This eliminates friction and ball screw torque – increasing efficiency and assuring higher speeds. The HUNTER lathes also have telescoping stainless steel guards that cover the ball screw along its entire length. This assures smooth operation and long machine life.



**Comparison of tradition
CK type CNC lathe**



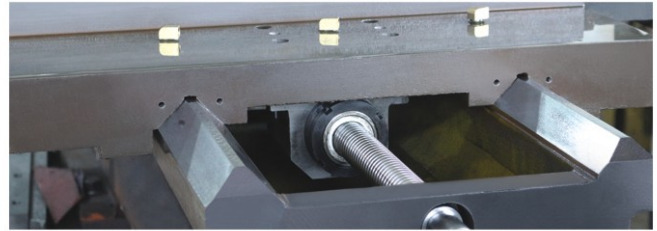
Reliable and Efficient Lubrication Oil Distribution



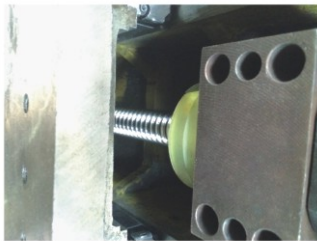
This efficient unit assures all machine components are lubricated evenly – extending machine operating life.

Double “V” Machine Bed Ways

Lathe carriage is continually aligned for torque-free, smooth operation and increased accuracy. The center-mounted, covered ball screws increase the smoothness and speed of carriage movement along the V ways.



Pre-Loaded Ball Screws With Bumpers



A pre-loaded ball screw reduces thermal distortion. The ball screw bumper helps protect the ball screw in case of operator error or machine malfunction.

