



Smart CNC Solutions

CNC LATHE SERIES

Complete Range Combine With Flexible Configuration



Heavy-Duty Cast Iron Base - PLUS, Quality Components

STL lathes have a heavy-duty cast base with "true align" slant bed design. The machine bed, head stock, turret and tailstock are aligned on the same plane. This unique design feature reduces heat build-up and resulting thermal expansion. The net result is a higher precision machine tool.

Additional resulting efficiencies from the "true align" design are greater rigidity and smoother operation — which provides a variety of benefits. You can expect to produce highly accurate parts with extremely fine surface finishes.

There are multiple benefits to having a lathe that combines such a large sized "vibration damping" solid, cast base – PLUS, properly aligned and balanced components. Some of these benefits include: 1) Smoother slide surface operation 2) Higher speed and accuracy 3) Fewer machine adjustments and lower maintenance costs 4) Shortened machine warm-up time, and 5) Lower power consumption.



Combined Speed and Rigidity

Machines come standard with a direct mount spindle. Cartridge type spindle units are available as an option.

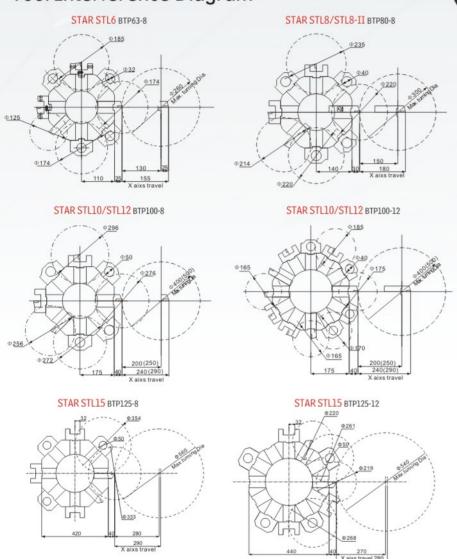
The headstock and main spindle are manufactured then assembled and tested in clean room. Heavy duty type spindle is supported by a double-row tapered cylindrical roller bearing plus angular ball bearing and double-row cylindrical roller bearing in the rear. It is a perfect marriage of speed and rigidity.



Various High Class Turret Increase efficiency and reliability

Indexing, bi-directional 8-Station Turret is standard on the STL. 12-Station Turret is optional. High quality, high speed turret provides optimal tool change efficiency and speed.

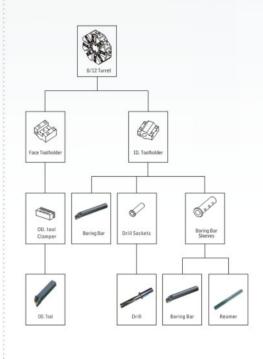
Tool Interference Diagram





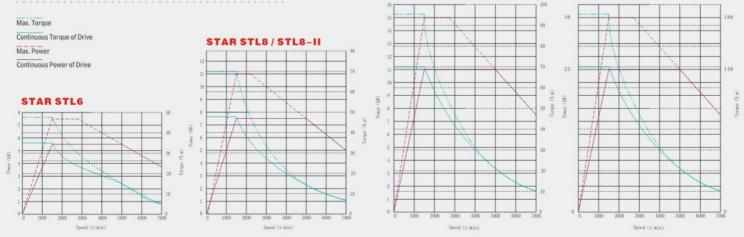
TOOLING SYSTEM

STAR STL6/STL8/STL8-II/STL10/STL12



STAR STL15

SPINDLE MOTOR TORQUE DIAGRAM



STAR STL10/STL12

Note: The real spindle output torque are converted by actual belt pulley ratio, please contact sales repsentative to get more technical details.

Standard Features

- Hydraulic 3-jaw Chuck
- 8-station Turret
- Automatic Lubrication System
- Automatic Coolant System
- Hydraulic Tailstock
- 3 Color Indicator Lamp
- Work Lamp
- Fully Enclosed Guard
- Hydraulic System
- Heat Exchanger Of Electric Cabinet

Optional Features

- 12-Station Turret
- Different Chucks And Collets
- Different Spindle Bore Diameters
- Automatic tailstock
- Chip Conveyor
- Tool Setter
- Bar Feeder
- Oil Mist Colletor
- Air Conditioner Of Electric Cabinet
- Oil Skimmer







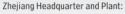
	Unit	STL8		STL8-II		STL8 Plus			STL8-750		STL8-1100	
Capacity												
Chuck size	inch	8", *10"		8", *10"		8", *10"			8", *10"		8", *10"	
Max. swing dia. over bed	mm	Ф450		Ф450		Ф550		Ф600		Ф600		
Max. length of workpiece	mm	450		500		400,*550		750		1100, *1700		
Max. swing dia. over slide	mm	Ф220		Ф220		Ф320			Ф360		Ф360	
Spindle			,			,						
Spindle bore	mm	Ф62	*Ф75	Ф62	*Ф75	Ф62	*Ф75	*Ф86	Ф62	*Ф75	Ф62	*Ф75
Max. dia. of through-hole	mm	Ф52	*Ф65	Ф52	*Ф65	Ф52	*Ф65	*Ф75	Ф52	*Ф65	Ф52	*Ф65
Spindle nose	type	A2-6	*A2-8	A2-6	*A2-8	A2-6	*A2-8	*A2-8	A2-6	*A2-8	A2-6	*A2-8
Spindle speed	rpm	4000 *2000	*1600 *3500	4000 *2000	*1600 *3500	*2000	*1600 *3500	*3000	4000 *2000	*1600 *3500	4000 *2000	*1600 *3500
Main motor power	kW	7.5/11, * 11/15		7.5/11, *11/15		7.5/11, *11/15		7.5/11, *11/15		7.5/11, *11/15		
Axis												
X axis travel	mm	170		170		260		260		260		
Z axis travel	mm	450		500		400, *550		750		1100, *1700		
X/Z rapid traverse	m/min	20/20		20/20		20/20		20/20		20/20		
Turret			J 0 - 2074 020 2000 0000 0000 0000		ndoscores cursous so soc		0.7550-305000					
Center height	mm	80		80		100		100		100		
No. of tool stations	nos	8, *12		8, *12		8,*12		8, *12		8, *12		
Tool shank size	mm	25x25, *20x20		25x25, *20x20		25x25		25x25		25x25		
Tailstock												
Type of tailstock		Hydraulic, *SST, *HPT		HPT, *Hydralic, *SST		Hydraulic, *HPT, *SST		SST, *SPT		SST, *SPT		
Taper of tailstock quill		MT4		MT4		MT4		MT3		MT3		
Travel of tailstock quill	mm	90		0		90		0		0		
Travel of tailstock	mm	100-450		100-500		100-400, *550		100-750		100-1100, *1500		
Structure												
Slant bed degree		35°		35°			35°		35°		35°	
Guideway type		LM		LM			LM		LM		LM	
Others												
Power capacity	kVA	15		15		16			16		18	
Overall dimension (LxWxH)) mm	2650x2000x2050		2650x2000x2050		2650x2000x2050			3080x2000x2350		3380x2000x2350	
Weight (about)	kg	3700		3800		4500			5200		5600	

Note: "*" means optional. "LM" means linear motion guideway. Tailstock: "Hydraulic" means automatic hydraulic driven tailstock sleeve.
"HPT" means linear motion guide way, automatic hydraulic driven body move tailstock. "SST" means small spindle hydraulic tailstock.
"SPT" means servo programmable tailstock.

"STL8-1700" is special purpose design for slim shaft workpiece standard with programmable steady rest and servo programmable tailstock.



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