



STAR SL SERIES

STAR SL6/SL8/SL10E/SL10/SL12



Standard Features

- Hydraulic 3-Jaw Chuck
- 8-Station Turret
- 12 station power turret (TS60)
- Work Light
- Tri-Color Alarm Light
- Automatic Lubrication System
- Automatic Coolant System

Optional Features

- 12-Station Turret
- Different Chucks and Collets
- Different CNC Control Systems
- Different Spindle Bore Diameters
- Chip Conveyor
- Tool Setter
- Bar Feeder



Specifications

	Unit	SL6	SL8	SL10E	SL10	SL12	
Capacity	Chuck size	inch	6", *8"	8"	8", *10"	10", *8"	
	Max. swing dia. over bed	mm	Φ400	Φ420	Φ400	Φ500	
	Max. length of workpiece	mm	230	320	300	400	
	Max. swing dia. over slide	mm	Φ200	Φ220	Φ210	Φ270	
Spindle	Spindle bore	mm	Φ48 *Φ55 *Φ62 *Φ81	Φ62 *Φ48 *Φ55	Φ62 *Φ75 *Φ65	Φ81 *Φ62 *Φ70 *Φ52	
	Max. dia. of through-hole	mm	Φ40 *Φ46 *Φ52 *Φ70	Φ52 *Φ40 *Φ46	Φ52 *Φ46 *Φ65	Φ70 *Φ52 *Φ62 *Φ40	
	Spindle nose	type	A2-5 *A2-5 *A2-6 *A2-8	A2-6 *A2-5 *A2-5	A2-6 *A2-8 *A2-8	A2-8 *A2-6 *A2-6	
	Spindle speed	rpm	3000 *2500 *2000 *1600	2000 *3000 *2500	2000 *2500 *2000	*3500 *1600 *2500	*2000 *3500 *3500 *4000
			*4500 *4000 *3500 *2500	*3500 *4500 *4000 *5000	*4000 *5000 *3000		
	Main motor power	kW	3.7/5.5,*5.5/7.5	5.5/7.5,*7.5/11.0	7.5,*11.0	7.5/11.0,*11.0/15.0	7.5/11.0,*11.0/15.0
Axis	X axis travel	mm	155	250	380	280	
	Z axis travel	mm	230	320	300	400	
	X/Z rapid traverse	m/min	20/25	12/20	20/20	15/20	
Turret	Max. speed of driving tool	rpm	N/A	N/A	N/A	N/A	
	No. of tool stations	nos	8,*12	8,*12	8,*12	8,*12	
	Tool shank size	mm	20x20,*16x16	25x25,*20x20	25x25	25x25	
Others	Slant bed degree		35°	45°	60°	35°	
	Guideway type		LM	LM	LM	LM	
Power capacity	Kva	11	13	15	16	18	
Overall dimension (LxWxH)	mm	2050x1450x1900	2050x1550x1850	2350x1650x2050	2700x1730x1900	2700x1700x1900	
Weight (about)	Kg	2100	2650	3100Kg	4500	4800	

Note: "*" means optional, "LM" means linear motion guide way.

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SL Turning Centers Feature a Compact Design – Without Tailstock

SL has Same Performance as STL – At a Lower Price Point

Machine Characteristics

- Cast Mono-Block, “True Align” Slant Bed Structure
- Compact Design (No Tailstock) – Perfect for Automation Options
- Adjustable “Ergonomic” Operator Control Panel
- Servo Spindle Motor – High Speed with Constant Torque
- Handheld Electronic Hand Wheel
- Highly Efficient Turret – Indexing, Bi-Directional, Non-Lifting
- Schneider Superior Quality Electrical Components
- Cylindrical Roller LM and Cylindrical Roller Spindle Bearings for SL10/SL12/TS60 with Rigid Upgrade

STAR SL Turning Centers are Designed for Disc and Short Bar Products Production at A Lower Price Point



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.



Cartridge Type Spindle As Optional

Various High Class Turret

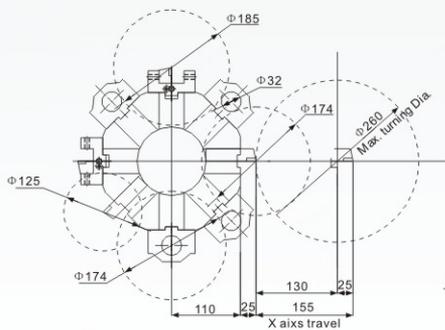
Increase efficiency and reliability

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.

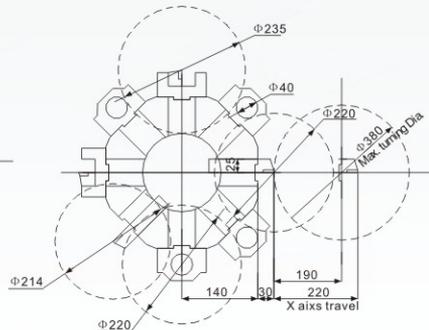


Tool Interference Diagram

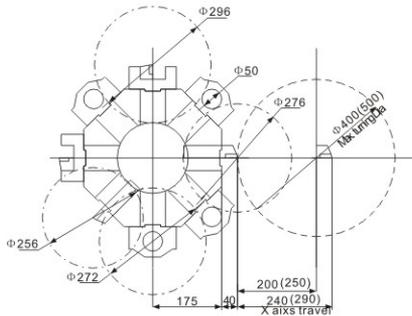
STAR SL6 BTP63-8



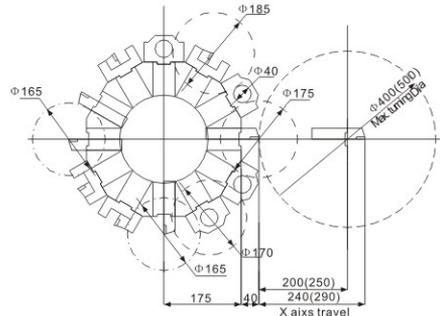
STAR SL8 BTP80-8



STAR SL10/SL12 BTP100-8

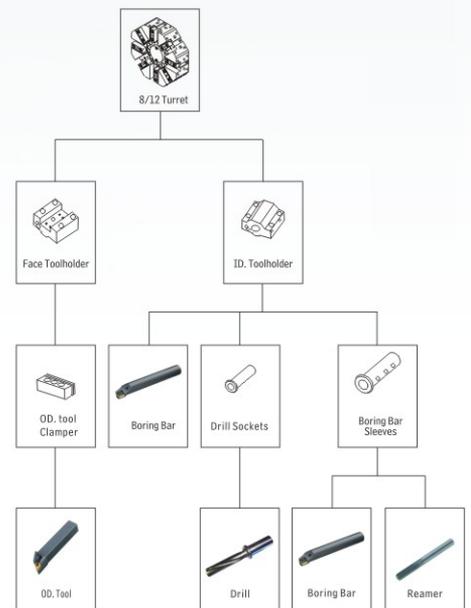


STAR SL10/SL12 BTP100-12



TOOLING SYSTEM

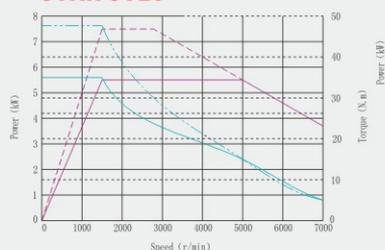
STAR STL6/STL8/STL8-II/STL10/STL12



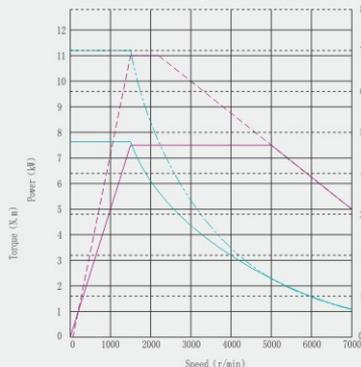
SPINDLE MOTOR TORQUE DIAGRAM

- Max. Torque
- Continuous Torque of Drive
- Max. Power
- Continuous Power of Drive

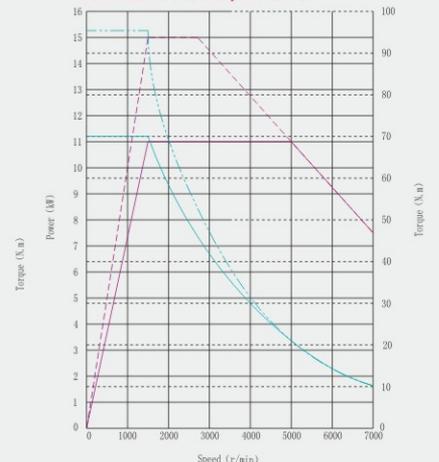
STAR STL6



STAR STL8 / STL8-II



STAR STL10 / STL12



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