

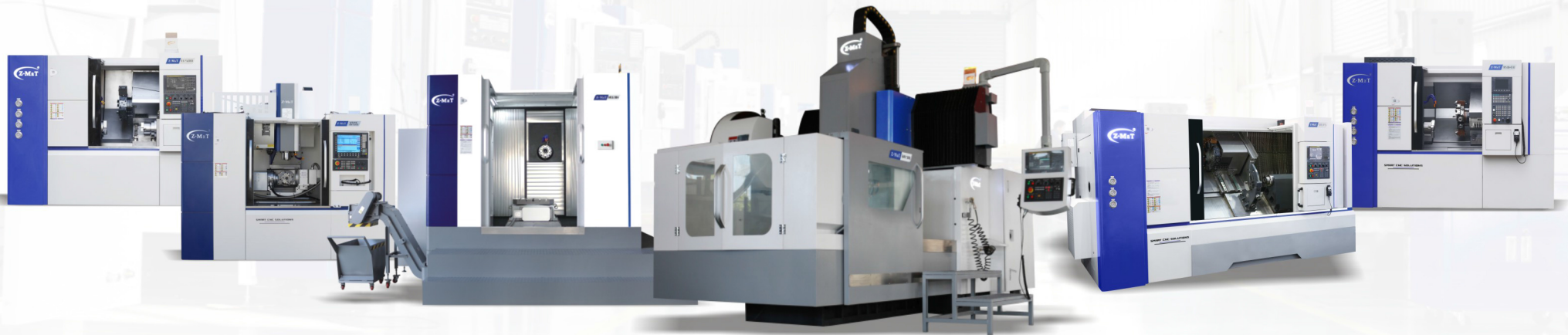


EXTENSIVE PRODUCT LINES

安全 生产 · 5吨 · 质量 第一

Z-MaT has more than 200 models of CNC machines in the company product line which includes CNC Turning Centers, Vertical Machine Centers and Special Purpose Machines.

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STL8



Excellent Productivity, Impressive Flexibility

The STAR STL8 - This highly regarded name is regarded throughout the world as a superior machine for working with large chuck, shaft or bar parts.

The machine is designed and built on a sturdy mechanical foundation. A generously sized work area, highly rigid turret and spindle type turret add to a machine construction that is unmatched in precision and productivity.

A few points that set the STAR STL8 apart:

- One piece casting with 35 degree inclined bed
- Heavy-duty roller type linear guideways
- Ergonomically advanced, adjustable operator panel with color monitor
- Extremely rigid work spindle, both statically and dynamically
- Different CNC control system options
- Heavy-duty turret with internal coolant supply
- Programmable, spindle type tailstock
- Steady rest, with manual or hydraulic clamping



STL8



STL8-750

Heavy-Duty Cast Iron Base Quality Components

STL8 has 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.

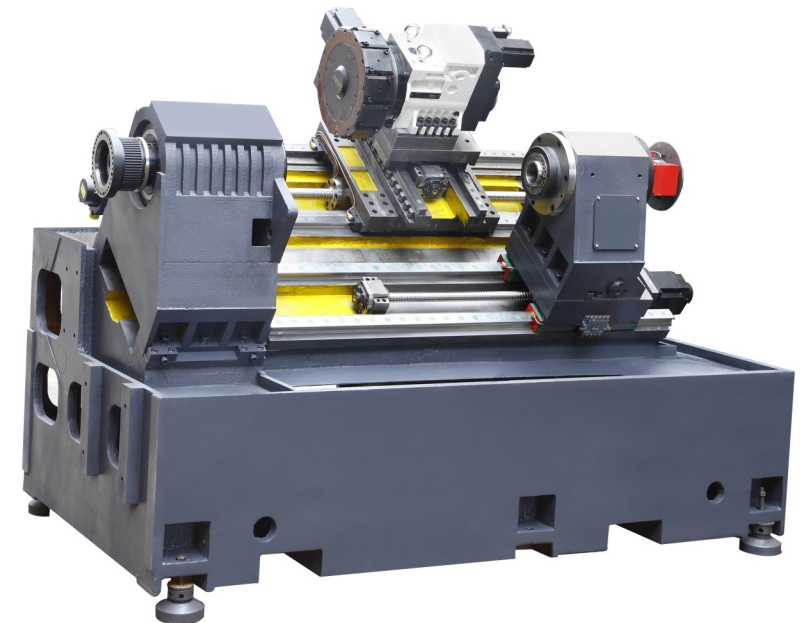
Additional resulting efficiencies from the “true align” design are greater rigidity and smoother operation which provides a variety of benefits. You can expect to produce highly accurate parts with extremely fine surface finishes.

The “NO Bend – NO Torque” mono-cast bed on the STAR STL8 is inclined at an angle of 35 degrees. It carries the thermo-symmetrically designed headstock and heavy type linear guideway for the longitudinal slides, steady rests and the tailstock.

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:

- Smoother slide surface operation
- Higher speed and accuracy
- Fewer machine adjustments and lower maintenance costs
- Shortened machine warm-up time
- Lower power consumption



STL8-S



STL SERIES



Specifications

	Unit	STL6	STL8	STL8-II	STL8 Plus	STL10	STL12	STL15
Capacity								
Chuck size	inch	6", *8"	8", *10"	8", *10"	8", *10"	10", *8"	12", *15"	15"
Max. swing dia. over bed	mm	Φ400	Φ420	Φ420	Φ500	Φ500	Φ550	Φ650
Max. length of workpiece	mm	300	450	500	400/550/750	750/1000	750/1000/2000	1320 (center to center 1500)
Max. swing diam. over slide	mm	Φ200	Φ210	Φ210	Φ280	Φ270	Φ290	Φ500
Spindle								
Spindle bore	mm	Φ48 *Φ55 *Φ62	Φ62 *Φ75	Φ62 *Φ75	Φ62 *Φ75	Φ81 *Φ62	Φ105 *Φ105 *Φ120	Φ105 *Φ120
Max. dia. of through-hole	mm	Φ40 *Φ46 *Φ52	Φ52 *Φ65	Φ52 *Φ65	Φ52 *Φ65	Φ70 *Φ52	Φ91 *Φ91 *Φ110	Φ91 *Φ110
Spindle nose	type	A2-5 *A2-5 *A2-6	A2-6 *A2-8	A2-6 *A2-8	A2-6 *A2-8	A2-8 *A2-8	A2-11 *A2-8 *A2-11	A2-8 *A2-11
		3000 *4000 *2000	2000 *1600	2000 *1600	2000 *1600	1600 *2000	1000 *1800 *1000	1000 *1800
		*3500 *4000	*3500 *4000	*3500 *4000	*3500 *4000	*2500 *3500		
Spindle speed	rpm	*4500 *5000 *4000	*3000	*3000	*3000	*3000		
Main motor power	kW	5.5/7.5	7.5/11.0	7.5/11.0	7.5/11.0	7.5/11.0, *11.0/15.0	11.0/15.0, *15.0/18.0	15.0/18.0, *22.0/30.0
Axis								
X axis travel	mm	155	180	180	265	280	280	280
Z axis travel	mm	300	450	500	400/550/750	750/1000	750/1000/2000	1500
X/Z rapid traverse	m/min	18/20	15/20	15/20	15/20	15/20	15/20	15/20
Turret								
Center height	mm	63	80	80	100	100	100	125
No. of tool stations	nos	8, *12	8, *12	8, *12	8, *12	8*12	8*12	8*12
Tool shank size	mm	20x20, *16x16	25x25, *20x20	25x25, *20x20	25x25, *20x20	25x25	25x25	32x32
Tailstock								
Type of tailstock		Hydraulic, *LM	Hydraulic, *LM	Hydraulic, *LM	Hydraulic, *LM	Hydraulic, *LM	Hydraulic, *LM	LM
Taper of tailstock quill		MT4	MT4	MT4	MT4	MT5	MT5	MT5
Travel of tailstock quill	mm	80	80	80	0	0	0	0
Travel of tailstock	mm	300	450	500	400/550/750	100-750/1000	100-750/1000/2000	100-1500
Structure								
Slant bed degree		35°	35°	35°	35°	35°	35°	45°
Guideway type		LM	LM	LM	LM	LM	LM	LM
Others								
Power capacity	KVA	13	15	15	16	18	20	25
Overall dimension (LxWxH)	mm	2130x1450x1600	2600/2800x1720x1775	2600/2800x1720x1775	2650/2800/3050x1720x1890	3200/3500x1900x2000	3200/3500/4100x1900x2000	4010x2100x2250
Weight (about)	Kg	2500	3300/3400	3600/3700	4300/5000/5500	5000/5800	5200/6000/7200	9500



DERIVATIVE PRODUCT FROM STL8



-Super rigidity
STL8-PLUS



-For long shaft
STL8-750



STL8



SL8 Turning Centers Feature a Compact Design
- Without Tailstock
SL has Same Performance as STL - At a Lower Price Point



TN500 3-axis Turning Center
-With C axis and powered turret



DT500E 4-axis Turning Center
-With C axis, Y axis and powered turret



SL SERIES WITHOUT TAILSTOCK



Specifications

	Unit	SL6	SL8	SL10E	SL10	SL12	
Capacity	Chuck size	inch	6", *8"	8"	8"	10", *8"	12", *15"
	Max. swing dia. over bed	mm	Φ400	Φ420	Φ500	Φ500	Φ550
	Max. length of workpiece	mm	230	320	300	400	400
	Max. swing dia. over slide	mm	Φ200	Φ220	Φ210	Φ270	Φ290
Spindle	Spindle bore	mm	Φ48 *Φ55 *Φ62 *Φ81	Φ62 *Φ48 *Φ55	Φ62 *Φ75	Φ81 *Φ62	Φ105 *Φ105 *Φ120
	Max. dia. of through-hole	mm	Φ40 *Φ46 *Φ52 *Φ70	Φ52 *Φ40 *Φ46	Φ52 *Φ65	Φ70 *Φ52	Φ91 *Φ91 *Φ110
	Spindle nose	type	A2-5 *A2-5 *A2-6 *A2-8	A2-6 *A2-5 *A2-5	A2-6 *A2-8	A2-8 *A2-6	A2-11 *A2-8 *A2-11
	Spindle speed	rpm	3000 *2500 *2000 *1600	2000 *3000 *2500	3500 *3000	1600 *2000	1000 *1800 *1000
			*4500 *4000 *3500 *2500	*3500 *4500 *4000	*4000 *5000	*2500 *3500 *4000	
Main motor power	kW	3.7/5.5,*5.5/7.5	5.5/7.5,*7.5/11.0	7.5/11.0,*11.0/15.0	7.5/11.0,*11.0/15.0	7.5/11.0,*11.0/15.0	
Axis	X axis travel	mm	155	250	280	280	280
	Z axis travel	mm	230	320	300	400	400
	X/Z rapid traverse	m/min	20/25	12/20	20/20	15/20	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	25x25
Others	Slant bed degree		35°	45°	60°	35°	35°
	Guideway type		LM	LM	LM	LM	LM
Power capacity	KVA	11	13	15	16	18	
Overall dimension (LxWxH)	mm	2050x1450x1900	2050x1550x1850	2520x1750x2050	2700x1730x1900	2700x1700x1900	
Weight (about)	Kg	2100	2650	3400	4500	4800	

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



TN SERIES 3-AXIS TURNING CENTER



Specifications

	Unit	TN500	TN500-500	TN500-650	TN600	TN700			
Capacity	Chuck size	inch	8	8	8	10,*12			
	Max. swing dia. over bed	mm	Φ500	Φ500	Φ650	Φ600			
	Max. length of workpiece	mm	370	500	650	750	1320 (center to center 1500)		
	Max. swing dia. over slide	mm	Φ280	Φ280	Φ460	Φ380	Φ500		
Spindle	Spindle bore	mm	Φ66	Φ66	Φ66	Φ66	*Φ100	Φ105	*Φ120
	Max. dia. of through-hole	mm	Φ52	Φ52	Φ52	Φ52	*Φ75, *Φ90	Φ91	*Φ110
	Spindle nose	type	A2-6	A2-6	A2-6	A2-6	*A2-8	A2-8	*A2-11
	Spindle speed	rpm	4000	4000	4000	4000	*2500	1800	*1000
	Main motor power	kW	22	22	22	22		22	
Axis	X axis travel	mm	265	265	230	280	280		
	Z axis travel	mm	370	500	650	750	1500		
	X/Z rapid traverse	m/min	15/20	15/20	15/20	15/20	15/20		
Turret	Max. speed of driving tool	rpm	5000/6000	5000/6000	5000/6000	4500/5000	4000		
	No. of tool stations	nos	12	12	12	12	12		
	Tool shank size	mm	VDI30	VDI30	BMT45	VDI40	BMT65		
Tailstock	Type of tailstock		Hydraulic, *LM	Hydraulic, *LM	Hydraulic, *LM	LM	LM		
	Taper of tailstock quill		MT4	MT4	MT3(Spindle unit type)	MT5	MT5		
	Travel of tailstock quill	mm	80	80	80	0	0		
	Travel of tailstock	mm	400	400	80-650	100-750	100-1500		
Structure	Slant bed degree		35°	35°	35°	35°	45°		
	Guideway type		LM	LM	LM	LM	LM		
Others	Power capacity	KVA	24	24	24	25	25		
	Overall dimension (LxWxH)	mm	2650×1720×1890	2850×1720×1890	2650×1720×1890	3220×1950×2000	4010×2100×2250		
	Weight (about)	Kg	3800	4100	4400	5200	8800		

Note: "*" means optional, "LM" means linear motion guide way, automatic hydraulic driven body move tailstock.



DT SERIES 4-AXIS TURNING CENTER (Y axis)



Specifications

	Unit	DT400E	DT500E	
Capacity	Max. turning diameter	mm	Φ160	Φ320
	Max. length of workpiece	mm	350	650
	Max. swing diam. over bed	mm	Φ500	Φ600
	Max. swing diam. over slide	mm	Φ350	Φ450
Spindle	Hydraulic chuck / Collet chuck	Inch	6	8
	Diam. of spindle bore	mm	Φ55	Φ66
	Max. diam. of through-hole	mm	Φ46	Φ52
	Spindle nose		A2-5	A2-6
	Max. spindle speed	rpm	5000	4000
	Main motor	kW	11,*15	22
*Sub-Spindle	Hydraulic chuck / Collet chuck	Inch	N/A	6
	Diam. of spindle bore	mm	N/A	Φ55
	Max. diam. of through-hole	mm	N/A	Φ46
	Spindle nose		N/A	A2-5
	Max. spindle speed	rpm	N/A	5000
Axis	Main motor	kW	N/A	11
	X axis travel	mm	230	250
	Z axis travel	mm	350	700
	Y axis travel	mm	70 (±35)	100 (±50)/140 (±70)
Feed Rate	X/Z/Y axis rapid traverse	m/min	20	20
	X/Z/Y axis ballscrew	mm	32×P10 / 32×P10 / 25×P10	32×P10 / 40×P10 / 25×P10
	Cutting feed rate	m/min	10	10
Turret	Type of turret		BMT40	BMT45,*BMT55
	No. of tool		12	12
	OD tool shank size	mm	16×16	20×20
	Boring tool shank size	mm	Ø25	Ø32
	Live tooling motor	kW	2.5	3.7
	Max. speed of live tooling	rpm	5000	5000
Tailstock	Type of tailstock		Hydraulic	Hydraulic driven programmable tailstock
	Taper of tailstock quill		MT4	MT3(spindle unit type)
	Travel of tailstock	mm	320	650
Others	Weight (about)	Kg	3000	4800
	Overall dimension (L×W×H)	mm	2280×1820×1975	2900×1650×2000