

CZMOOS
TRADING *s.r.o.*



Heavy duty CNC lathes
with turning dia 780-5000 mm

Heavy duty CNC lathe with large machining capacity

This category of extra heavy CNC lathes comes from a workshop **TOP TURN, the world's leading manufacturer of lathes of similar size** from Taiwan.

Lathes are designed based on years of experience with manufacturing lathes with rotating large diameter and length of the workpiece . They offer really great working performance with high torque during machining pieces of impeller diameter to 5000 mm. **Solid cast iron bed, ensures high machine rigidity so under intense roughing operations can be done with great precision work** . The entire machine structure is plotted down to the smallest detail , so that the machine operator was the most effective

They are suitable **for serial processing of long and massive piece of heavy industry** .It is designed for roughing and finishing large shaft and flange parts , the thread cutting , drilling, turning, cones and various shaped surfaces of revolution. Addition of C and Y axes can also multiply the effectiveness of working machines.



They are suitable for serial processing of long and massive piece of heavy industry.

swing over bed 780-5000 mm, distance between centers 30 meters



Lathes are manufactured in several versions, with each series offers a wide choice of main engine power and average drilling spindle.

All major parts, such as bed, slide, headstock are iron castings, which are internally reinforced to resist bending and damped vibration generated during machining.

The castings are hardened to **50-52 HRC, which provides a very high accuracy machining**. Bed, slide, headstock, pedestal and other parts are cast in a mold with resin sand.



S40C



S36

Specifications:	S36	S36L	S36LL
Swing Over Bed	780 mm		
Max Swing Over Carriage	500 mm, 550 mm		
Max turning length	700mm	1200mm	1700mm
Distance between centers	850mm	1350mm	1850mm
Max spindle speed	1200 rpm		
Spindle speed steps	3		
Spindle nose	A2-11		
Spindle motor	30/35 HP (22/26 kW) option: 40/50 HP (30/37 kW)		
Spindle bore	165 mm		
Bar capacity using	117-155 mm		
Type	Servo		
Number of tool stations	10; Option: 12		
Shank height on square tool	32 mm		
Boring bar diameter	50 mm		
X axis travel (box way)	275 mm		
Z-axis travel (box way)	800 mm	1300 mm	1800 mm
Rapid traverse (X-axis)	1 5m/min		
Rapid traverse (Z-axis)	24m/min	24 m/min	15 m/min
Y-axis travel	55 mm		
Rapid traverse	8 m/min		
Ballscrew diameter	40mm x P10		
Turret	12-position servo VDI		
Motor	Fanuc Alpha 3 AC spindle motor		
Speed	5000 rpm		
Spindle Resolution	0.001°		
Tailstock spindle travel	750mm	1250mm	1750mm
Quill diameter	110mm		
Quill travel	100mm		
Quill taper	MT #5		
Dimensions (L x W x H)	4200 x 1900 x 2100 mm	4700 x 1900 x 2100mm	5200 x 1900 x 2100mm
Weight	7,100 kg	8200 kg	9250 kg

Standard accessories

- Fanuc Oi-TC Package with 8.4" LCD Color Monitor
- AC Spindle Motor
- AC Servo Motor
- Headstock Lubrication Oil Tank
- Oil Thermal Control Device
- Electric Cabinet Air Conditioner
- Built-in Type Rotating Tailstock Quill MT#6
- Hydraulic Power Tailstock
- Baruffaldi 12-Station Servo Turret
- Boring Tool Holder x 4pcs. (I.D. 60mm)
- Tray Type Chip Conveyor and Chip Cart
- Slide Way and Ballscrew Lubrication System
- High Pressure Coolant Pump
- Full Safety Guard
- Leveling Pad, Screw, Nut
- Tool Box and Kits
- Work Light

Specifications:	S40	S40C	S50	S50C
Center height	505 mm		637 mm	
Swing over bed	1010 mm		1275 mm	
Swing over Carriage	680 mm		970 mm	
Distance between centers	2000~6000mm			
Width	1475mm			
Spindle speed	1-600 rpm		1-500 rpm	
Spindle nose	A2-15; Option: A2-20, A2-28		A2-15; Option: A2-20, A2-28	
Spindle motor	30/35 HP (22/26/ kW) Options: 40/50 HP (30/37 kW), 50/60 HP (37/45 kW) 80/100 HP (60/75 kW) 137 HP (100 kW)			
Spindle bore	230mm Options: 318m, 360mm, 410mm, 535mm			
Number of tool stations	12			
Tool shank cross section	40mm			
Tool shank diameter	60mm			
TRAVELS				
X axis travel (box way)	535mm		662mm	
Z-axis travel (box way)	same as distance between centers			
Cutting feedrate	0.001-500 mm/rev			
Ballscrew diameter (X-axis)	50mm x P10			
Ballscrew Diameter (X-Axis)	63mm X P10 (over 5m use linear motor)			
TAILSTOCK				
Quill diameter	235mm			
Quill travel	250mm			
Quill taper	MT #6			
Quill diameter	---	Servo VDI50, 12-station	---	Servo VDI50, 12-station
C- axe (option)				
Motor	---	7.5/11 kW	---	7.5/11 kW
Speed	---	5,000 rpm	---	5,000 rpm
Spindle resolution	---	0.001°	---	0.001°
AC Servo	12 HP (9 kW)			
Hydraulic pump motor	5 HP (3.75 kW)			
Coolant pump motor	1.5 HP (1.1 kW)			
W x H	3470 x 3400 mm		3470 x 3400 mm	
L (2000mm)	8100mm		8100 mm	
Weight	31000kg		32000kg	



S50





Specifications:	XCF-46	XCF-56
Swing Over Bed	1120 mm	1400 mm
Swing over carriage	750 mm	1000 mm
Distance between centers	1000~10000 mm	
BED Width	840 mm	
Spindle speed	1-600 rpm	1-500 rpm
Spindle steps	3	
Spindle nose	A2-11; Option: A2-15, A2-20	A2-11; Option: A2-15, A2-20, A2-28
Spindle motor	22/26/ kW Options: 30/37 kW	
Spindle bore	165 mmOptions: Ø 230 mm, 318 mm, 360mm	165 mmOptions: Ø 230 mm, 318 mm, 360 mm, 410 mm, 535 mm
Front bearing ID	200mm	304 mm
Number of tool stations	4 or 10	
Tool height for square tool	50 / 32 mm	
Tool shank diameter	50 mm	50mm Option: 60mm
X axis travel (box way)	560 mm	650 mm
Z-axis travel (box way)	1300~10300 mm	
Rapid traverse (X-axis)	12 m/min	
Rapid traverse (Z-axis)	10 m/min	
TAILSTOCK (option)		
Quill diameter	235 mm	
Quill travel	250 mm	
Quill taper	MT #6	
Spindle nose	A1-6	
C-AXIS (option)		
Turret	Servo VDI50, 12-station	
Motor	7.5/11 kW	
Speed	5,000 rpm	
Spindle resolution	0.001°	
Y-AXIS (option)		
Travel	4.33 (+/-110)	
Rapid traverse	12 m/min)	
Ballscrew diameter	40 mm x P10	
Bedway width	254 mm	
MACHINE SIZE (W x H)	2905 x 2860 mm	



Optional accessories

- Enlarged spindle bore
- Enlarged spindle motor to 137 HP
- Bearing Supporter Steady rest (bearing supporter)
- Self-Centering Hydraulic Steady Rest
- Renishaw touch probe
- Tool measuring system
- Linear scale on X axis
- Rear Chuck
- Bar feed interface
- Parts catcher
- Auto door
- C-Axis and live tooling - 12 station VDI50, VDI60 or VDI 80 turret
- Control options: Fanuc 18i-TB, Fanuc 21i-TB, Siemens 810D

Specifications:	S60	S80	S100	S120	S140	S160
Swing Over Bed	1600mm	2000mm	2400mm	3050mm	3600 mm	4080mm
Swing over Carriage	1245 mm	1645 mm	2100 mm	2600 mm	2800 mm	3200 mm
Distance between centres	2000~16000 mm					
Bed Width	2119 mm					
Spindle speed	1-600 rpm			1-400 rpm		
Spindle steps	3					
Spindle nose	A2-15					
Spindle motor	30/37 kW: Options: 37/45 kW, 60/75 kW					
Spindle bore	230mm Options: 318, 360, 410, 535 mm					
Turret Type	Hydraulic (4) / Servo (10)					
Number of tool stations	50/32 mm					
Tool height for square tool	50/32mm					
Tool height for square tool	60mm					
X Axis Travel (Box Way)	800 mm	1000 mm	1200 mm	1550 mm	1850 mm	2050 mm
Z-Axis Travel (Box Way)	0.001~500 mm					
TAILSTOCK						
Quill Diameter	235 mm					
Quill Travel	250 mm					
Quill Taper	MT #6					
Bedway width	780 mm					
C-AXIS (option)						
Turret	Servo VDI50, 12-station					
Motor	7.5/11 kW					
Speed	5,000 rpm					
Spindle resolution	0.001					
Y-AXIS (option)						
Travel	+/-110 mm					
Rapid Traverse	12 m/min					
Bedway width	254 mm					