

SPECIFICATIONS

WORKING CAPACITY	S36	S36L	S36LL
Swing Over Bed		Ø30.7" (780mm)	
Max. Turning Diameter		Ø19.7"/21.7" (500mm/550mm)	
Max. Turning Length	27.6" (700mm)	47.2" (1200mm)	66.9" (1700mm)
Distance Between Centers	33.5" (850mm)	53.2" (1350mm)	72.8" (1850mm)
Hydraulic Chuck Diameter		15.0" (380mm) Option: 20.0" (500mm)	
SPINDLE			
Gear Box:		3 steps	
Max. Spindle Speed:		1-1200 rpm	
Spindle Nose:		A2-11	
Spindle Motor:		30/35 HP (22/26 kW) Option: 40/50 HP (30/37 kW)	
Spindle Bore:		6.6" (165mm)	
Bar Capacity:		4.6" (117mm) Option: 6.0" (155mm)	
Front Bearing ID:		8.7" (220mm)	
TURRET			
Turret Type:		Servo	
No of Tool Stations:		12	
Height for Square Tool:		1.25" (32mm)	
Max. ID Tool:		Ø 1.97" (50mm)	
TRAVELS			
X-Axis Travel (Box Way):		10.83 +1.18" (275+30mm)	
Z-Axis Travel (Box Way):	31.5" (800mm)	51.2" (1300mm)	70.9" (1800mm)
Rapid Traverse (X-Axis):		591 ipm (15m/min)	
Rapid Traverse (Z-Axis):	944 ipm (24m/min)		591 ipm (15m/min)
BallscREW Diameter X-Axis:		1.58" (40mm) x P10	
BallscREW Diameter Z-Axis:		1.97" (50mm) x P10	
Y-Axis Travel (option):		±2.17" (55mm)	
Rapid Traverse (Y-Axis option):		315 ipm (8m/min)	
BallscREW Diameter (Y-Axis option):		1.58" (40mm) x P10	
HYDRAULIC SYSTEM			
Tank Capacity		15.8 gal. (60 liter)	
Motor		2 HP (1.46 kW)	
COOLANT SYSTEM			
Tank Capacity	42.2 gal. (160 liter)	55.5 gal. (210 liter)	68.7 gal. (260 liter)
Pump Motor (3 bars/HP):		.25 HP	
TAILSTOCK			
Tailstock Spindle Travel:	29.5" (750mm)	49.2" (1250mm)	68.9" (1750mm)
Quill Diameter:		4.3" (110mm)	
Quill Travel:		4" (100mm)	
Quill Taper:		MT #5	
MACHINE SIZE:			
W x D x H	165" x 75" x 83" (4200 x 1900 x 2100mm)	185" x 75" x 83" (4700 x 1900 x 2100mm)	205" x 75" x 83" (5200 x 1900 x 2100mm)
Weight:	15,653 lb (7,100 kg)	18,078 lb (8200 kg)	20,613 lb (9250 kg)

Specifications subject to change without notification.

Top-Turn lathes are manufactured in Taiwan by Jashico Machine Manufacture Co., Ltd. Top-Turn has over 25 years of experience in the manufacture of CNC lathes. They are committed to manufacturing lathes that set the standard in their class with respect to performance, reliability and technology.

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TOP-TURN®

S36 Series

SLANT BED, LARGE BORE CNC LATHES

EXCEPTIONAL
PERFORMANCE
FOR



HEAVY-DUTY
TURNING

S36 Series

SLANT BED, LARGE BORE CNC LATHES

HIGH PRECISION
HIGH RIGIDITY
EASY TO USE

LARGE BORE, HIGH PRECISION SPINDLE

The S36 Series offers a standard 6.6" spindle bore for large diameter turning. The headstock design offers a strong structure ensuring high rigidity and stability at high spindle power rates. The high precision spindle is encased in a well-ribbed headstock for maximum heat dissipation. The thick iron casting dampens vibrations thereby increasing accuracy. The angular thrust bearing is designed to absorb axial cutting forces, while the roller bearings with large bearing areas facilitate heavy cutting. The gear-driven spindle motor offers excellent torsion.

DIRECT COUPLED BALLSCREWS

The S36 Series offers high precision preloaded ballscrews for reduced backlash, while the direct coupling eliminates motor backlash and improves torque transmission characteristics. The absence of belts or gear drives eliminates transmission vibration.

HARDENED CAST IRON CONSTRUCTION

The cast iron slideways are hardened to a depth of 5mm using high frequency induction heating for maximum wear resistance and rigidity. An automatic lubrication system distributes oil to slideways and ballscrews to ensure that all critical components are sufficiently lubricated, saving time and reducing maintenance costs.

12-STATION SERVO TURRET

The 12-station servo turret offers rapid tool changing as standard. The ergonomic design of the S36 ensures easy access to the turret for tool changeover. The chip conveyor is built into the machine, saving space and enhancing aesthetics.

PROGRAMMABLE TAILSTOCK

The programmable tailstock is mounted on slideways for maximum clamping stability. It offers hydraulic clamping to the bed with variable hydraulic pressure to the tailstock quill. The tailstock can be controlled via the control panel and offers a quill diameter of 4.3" (110mm) and travel of 4" (100mm).

OPTIONS FURTHER ENHANCE CAPABILITIES

The S36 Series comes standard with the FANUC Oi-TC CNC control, however the Oi-18i TB is available as an option offering a larger display and increased part program storage. Additional options like a tool probe, parts catcher, CAM, bar feeder and gantry systems can further expand the flexibility of the S36 Series.



LONG-BED OPTIONS FOR PROCESSING SHAFTS AND TUBING

The S36 Series includes the S36L and S36LL models for applications where deep-hole drilling and boring are required. The S36L offers a maximum cutting distance of 47.2" (1200mm), while the S36LL offers 66.9" (1700mm). An optional steady-rest can provide additional support for turning and boring long shafts.

MILLING AND DRILLING CAPABILITY WITH C-AXIS OPTION

The S36C models offer C-axis and live tooling capabilities to perform secondary operations including milling, engraving and drilling on curved surfaces. They are designed for precision turning and milling of large and long cylindrical workpieces including large-size printing rollers, straight-tooth shaft couplings, main shafts, main shaft bearing caps, main-shaft lubrication sleeves, yokes, scrolls and cambered parts for shafts. The addition of AlphaCam software can further save working time and increase efficiency.

Turret: D140-12 stations
Motor Power: 5/7.5 HP
Speed: 5,000 rpm
Spindle Resolution: 0.001°

FANUC DRIVES

FANUC high-performance digital servo and spindle systems, as well as their advanced line of linear motors, are designed to reduce setup time and deliver significant throughput advantages. FANUC products are backed by FANUC's commitment to the highest standards of reliability, performance and energy savings along with superior support and service.



FANUC CONTROLS

FANUC is the industry leader for high-performance, high-reliability CNCs. Compact yet rugged, FANUC's precise, high-performance systems will be seen in the quality of every part that you make.

- ◆ Simple programming and operation
- ◆ Operator friendly graphic display for visual part program verification
- ◆ Extended help functions and alarm/operation history
- ◆ High-speed machining for better quality parts, faster
- ◆ Tool Life Management for maximum machine utilization
- ◆ Canned Cycles for simplified part programming
- ◆ Custom Macro B for extending existing canned cycles, or creating new ones
- ◆ Skip Cycle Programming for on-machine probing



S36 SERIES STANDARD FEATURES

- ◆ 30/35 HP (22/26 kW) AC Spindle Motor
- ◆ FANUC CONTROL Standard voltage 220V
- ◆ Spindle variable speed max. 1200rpm
- ◆ 3 stage gear box, plus lubrication tank and oil cooler for headstock
- ◆ 15" 3-jaw hydraulic hollow chuck
- ◆ Hard jaw x 1 set
- ◆ Soft jaw x 1 set
- ◆ Foot pedal x 1 set
- ◆ Auto lubrication system
- ◆ Coolant system
- ◆ 12-station servo turret; 32x32 dia. 435mm (max cutting diameter 500mm)
- ◆ Face cutting holder: 2 sets
- ◆ Boring tool holder: 4 sets
- ◆ Boring bar sleeve: Ø32, Ø25, Ø20, Ø16, Ø12, Ø10mm - 1 pc for each
- ◆ Tailstock quill taper: M.T.#5
- ◆ 4.3" (110mm) Tailstock
- ◆ Hydraulic quill tailstock, Travel 4.0" (100mm)
- ◆ High pressure coolant pump 3 bars
- ◆ Chip conveyor with cart
- ◆ Fully enclosed splash guard
- ◆ Front door interlock
- ◆ Working light
- ◆ Tool Kit
- ◆ Operation manual and maintenance manual
- ◆ Programming manual

THE TOP-TURN S36 SERIES 15" CHUCK SLANT BED CNC LATHES OFFER EASE OF OPERATION AND HIGH PERFORMANCE IN A SMALL FOOTPRINT. THE HIGH QUALITY DESIGN IS THE RESULT OF EXTENSIVE EXPERIENCE IN THE MANUFACTURE OF CNC LATHES. THE 45° SLANT BED DESIGN GIVES ADDED RIGIDITY TO THE BED STRUCTURE, WHILE IMPROVING CHIP DISPOSAL. THE ERGONOMIC DESIGN OFFERS EASY ACCESS TO THE TURRET AND WORK AREA FOR SIMPLIFIED TOOL AND PART CHANGING.