

MITSEIKI TL Series CNC Lathes

1600, 1800 Series



Features

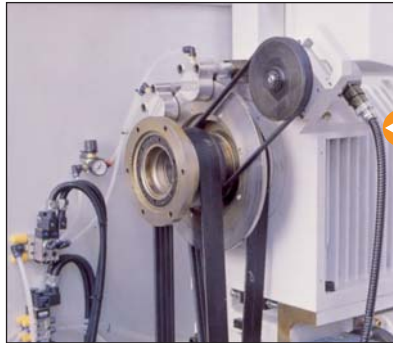
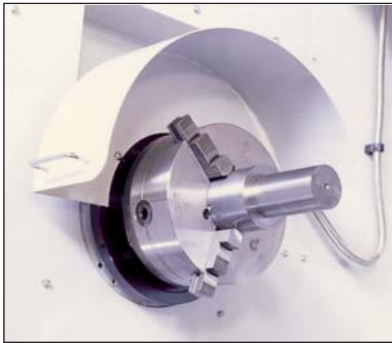
- 425 / 475 mm swing over bed
- 1000/1500 mm metres between centres
- Bore diameter options 46 / 65 mm
- Cross slide can accommodate V-turret & hydraulic 4-way tool post
- Rigid double box way slides, extra wide, induction hardened & precision ground
- Rapid traverse speed of 15 m/min.
- Fagor 8055 CNC controller
- High pressure coolant pump
- Repeatable accuracy ± 0.005 mm
- Powerful Fagor AC spindle motor, rigid and balanced headstock for high speed running and large loading capacity
- Large heavy duty tail stock
- Front guarding system
- Low volt control system

Options / Accessories

- Steady rest (roller type), follow rest (bronze type)
- Various chuck options
- C-axis and power turret
- 7.5 / 11 kW motor
- Chip conveyor and wash down device
- Hydraulic tail stock quill
- Fanuc & Siemens controllers

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Large chucks are accommodated with ease and options include hydraulic chuck fitting & bar feeder systems.

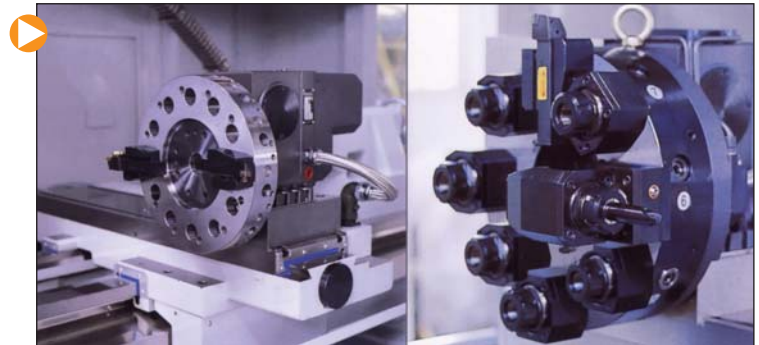
▶ C-axis is an option available on request with braking system, upgraded spindle motor & controller.

The lathe is equipped with sliding doors and large viewing windows to ensure operator safety. The left door slides back over the lathe body to allow the operator easy access to the spindle. The front mounted operator panel also slides to any position irrespective of door position.

The large cross slide accommodates a QCTP or power V-turret. A hydraulic 4-way tool post is also available as an option and both can be mounted which offers versatility and increased production.

The lathe bed consists of a rugged heavily ribbed Meehanite casting construction with square box way slides for increased traverse rates. Bed ways are induction hardened and precision ground.

Large diameter ball screws are preloaded to ensure positioning & repeated accuracy.

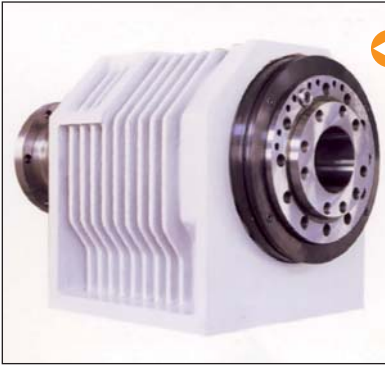


▶ The CNC control panel is mounted at eye level for good ergonomics and ease of operation. A separate operator control panel slides along the front of the machine for manual operation. The Fagor 8055 controller provides a TFT colour screen and easily accessible controls.

Fanuc or Siemens controllers are also available.

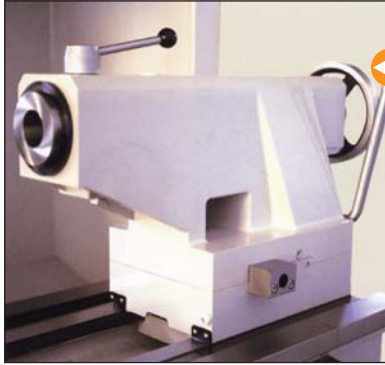


High pressure coolant pump



◀ Rigid and balanced headstock for high speed running and large loading capacity. An automatic two speed gearbox is available as an option.

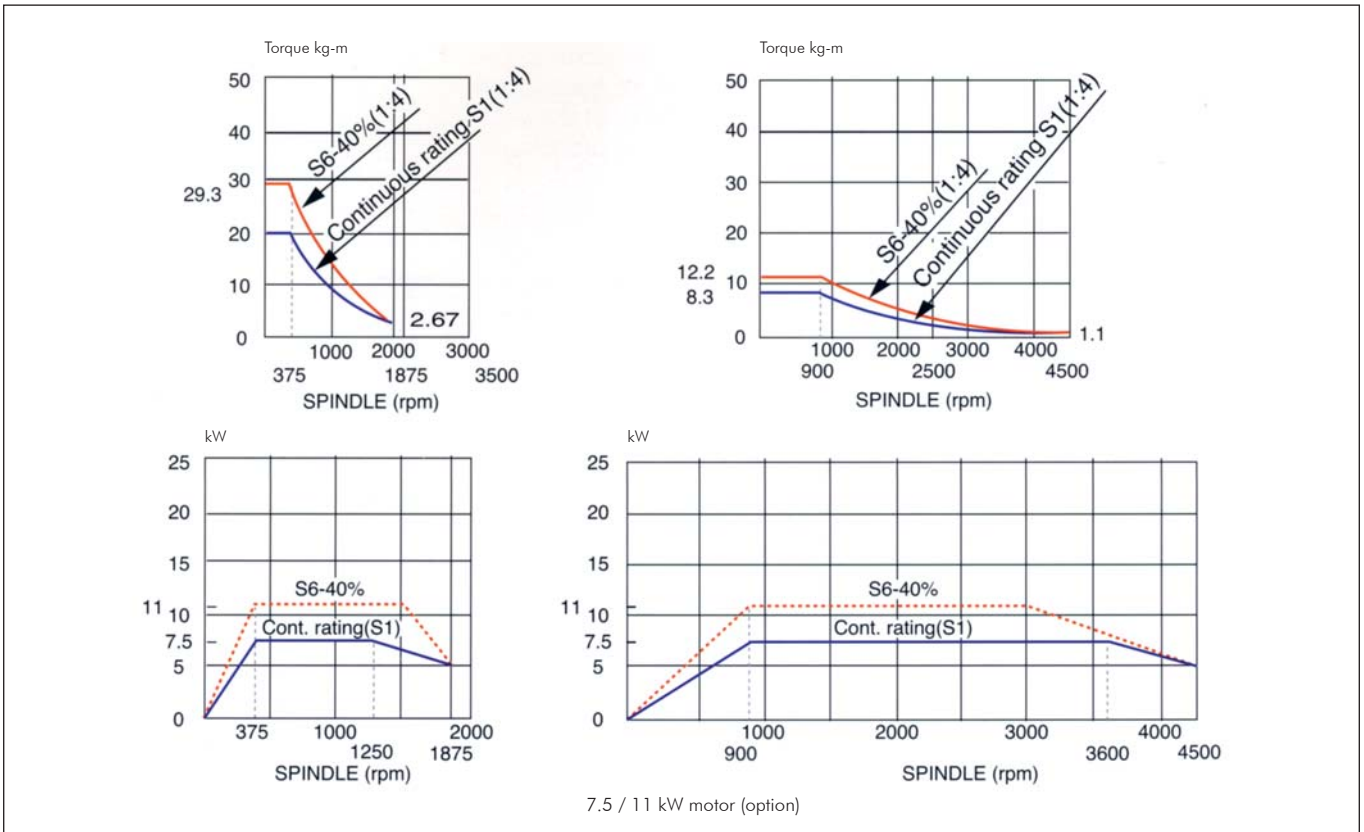
▶ The automatic lubrication pump is easily accessible and the level can be viewed through the clear protective cover.



◀ An extra long quill to ensure full cutting length even when the machine is equipped with a power turret. The heavy duty tail stock is ideal for carrying heavy work pieces.



Torque Chart



Photos used for illustration purposes only. Specifications subject to change without notice.

TL 1600 & 1800 Series – Specifications

		TL-1640 / TL-1660	TL-1840 / TL-1860
Swing in gap		660 mm	710 mm
Swing over bed		425 mm	475 mm
Swing over cross slide		190 mm	240 mm
Max. turning length		1000 / 1500 mm	1000 / 1500 mm
Travel	Z axis	1150 / 1650 mm	1150 / 1650 mm
	X axis	260 mm	260 mm
Feed rate	Z axis rapid traverse	15 m/min	15 m/min
	X axis rapid traverse	15 m/min	15 m/min
	Jog feed	3 m/min	5 m/min
Spindle	Speed range	100~5000 rpm	100~4500 rpm
	Chuck size (option)	160 mm	200 mm @ 4500 rpm
	Spindle nose (ASA)	A2-5	D1-6
	Spindle hole diameter	46 mm	65 mm
	Motor power	7.5 / 11 kW (optional)	7.5 / 11 kW (optional)
Turret (option)	No. of tool stations	8	8
	Shank height for square tool	20 mm	25 mm
	Shank dia. for boring bar	20 mm	40 mm
	Turret indexing time (one tool)	0.42 sec (Baruffaldi)	0.42 sec (Baruffaldi)
Accuracy	Positioning	± 0.005 mm	± 0.005 mm
	Repeatability	± 0.005 mm	± 0.005 mm
Slide	Bed width	355 mm	355 mm
	Cross slide guide width	215 mm	215 mm
Ball screw	X axis dia. pitch	25 x 5 mm - C5	25 x 5 mm - C5
	Z axis dia. pitch	40 x 10 mm - C5	40 x 10 mm - C5
Tail stock	Movement	manual	manual
	Quill movement	manual / hydraulic (optional)	manual / hydraulic (optional)
	Quill stroke	150 mm	150 mm
	Stroke diameter	65 mm	65 mm
	Quill inside taper	MT4	MT4
Coolant	Pump motor	375 W	375 W
	Pump capacity	70 L/min.	70 L/min.
	Pump pressure	2.7 kg/cm ²	2.7 kg/cm ²
	Tank capacity	84 / 120 litres	100 litres
Lubrication	Pump motor	25 W	25 W
	Pump capacity	130 cc/min.	130 cc/min.
Weight		2400 kg	3150 kg
Dimension	(L x W x H)	3020 / 3520 x 1935 x 2020 mm	3010 / 3510 x 1800 x 2020 mm

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