Machine standard specifications NO Standard Specifications

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	Item		Specifications
Machining capability	Swing over bed		260 mm
	Spindle center height from X-slide surface		50 mm
F	Distance between spindle e	nd and X-slide edge	Max 423 to Min 123 mm
	Max. spindle speed		6,000 min-1
Spindle	Spindle end face configuration		\$\phi\$140 mm flat
	Max. bar stock diameter		φ38 mm
	Chuck size		6 inch
	Туре		Gang-type tool post (with T-groove)
-	X-axis stroke		300 mm
8	Z-axis stroke		300 mm
Tool post	Rapid traverse speed	X-axis	24 m/min
#		Z-axis	24 m/min
	Tool size		16 mm square
Motor	Spindle		5.5/7.5 kW
	X axis		1.2 kW
	Z axis		1.2 kW
	Coolant pump		180 W
	Spindle cooling pump		100 W
ca _	Lubricating oil tank		1.8 L
Tank capacity	Spindle cooling oil tank		8 L
	Coolant tank		130 L
Dimension	Width x Depth x Height		1,610 mm x 1,535 mm x 1,600 mm
nsion	Weight		1,900 kg

Item	Specifications
NC unit	FANUC OiMate-TD
Display unit	8.4" color LCD
Least input increment	0.0001 mm (X axis: diameter designation)
Feedrate command	mm/rev, mm/min
Command input method	Absolute/Incremental
Interpolation	Linear, Circular
Miscellaneous function M	M3 digits
Spindle function S	S4 digits (Direct command)
Tool function T	T4 digits
Tool compensation memory	64 pairs
Part program storage size	512 kbyte
Feedrate override	0 to 150 % (By 10 % steps)
Optional block skip	1
Backlash compensation	
Program number search	04 digits
Sequence number search	N5 digits
Canned cycle	
English display	
Cutter and tool nose radius comper	sation. Tool geometry offset

Tool wear offset, Custom macro, Multiple repetitive cycles, Background editing, Direct drawing dimension programming, Inch/metric conversion, Run-hour & parts count display, Spindle speed fluctuation detection

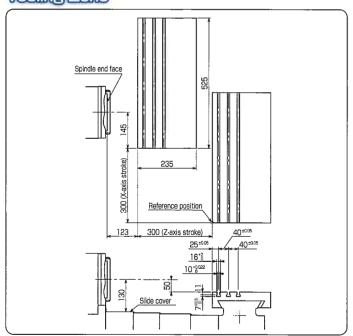
Standard Accessories

Tool holder (1)
Tool holder (2)
Transit clamps
Spindle cooling unit
Height gauge

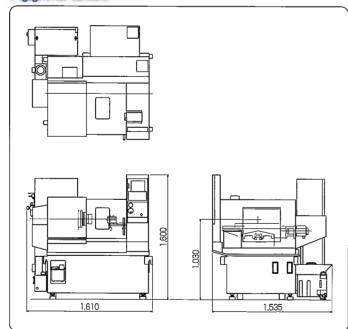
Online

Air chuck Collet chuck Hydraulic unit Work conveyor Hydraulic cylinder Hydraulic chuck
Hydraulic unit Work conveyor Hydraulic cylinder
Work conveyor Hydraulic cylinder
Hydraulic cylinder
Hydraulic chuck
Illumination light
Automatic fire extinguisher
Spindle air blow
Tool post air blow
Pneumatic unit for chuck

Tooling Zone



Appearance



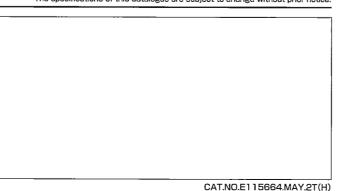
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The specifications of this catalogue are subject to change without prior notice.

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PRECISION TSUGAMI

CNC High Precision Automatic Lathe



Gang-Type tool Concept, most suitable for high precision machining. Accommodate both bar and chucker



PRECISION TSUGAMI

Gang-Type tool Concept, most suitable for high precision machining. Flexibly correspond to both bar and chucker according to the workpieces. Signal indicator (option)

Illumination light (option)

Machine height 1,285 mm
Easy supervision of factory

Powerful and high precision spindle (5.5/7.5 kW)

- Built-in motor spindle minimizes vibration and improves surface finishes.
- Standard-equipped spindle cooling unit reduces thermal displacement.
- Improving surface roughness, prolonging tool life
- Cooling by the oil cooler

High-rigidity Slide

• High rigidity sliding guide ways improve machining accuracy and absorb heavy cutting loads.

Pretensioned Ball Screw

Pretension is applied to X and Z-axis ball screws to reduce thermal displacement from cold start.

A Variety of Tooling

 Tooling system selections are available for both bar and chucker to meet a wide variety of workpieces.

Automation

- The loader is easy to be installed since height from the spindle center to the top of the cover is 255 mm. It is also possible to mount through-machine type loader.
- Oi Mate-TD is adopted for NC and it can control the loader together.

Improvement of operability

- Extending the door opening width to 470 mm to improve the operability.
- Above the spindle, energy-saving LED internal illumination light is provided as option.

Accommodate both bar work and chuck work

