

**TOSHIBA MACHINE MACHINERY'S VERTICAL BORING AND TURNING MILL  
MODEL; TUE-150 with FANUC SERIES 0i T Model D CNC CONTROLLER**

**MACHINE MAIN SPECIFICATIONS**

**MAIN CAPACITY**

Table diameter	57.0"	1,450mm
Maximum swing	78.7"	2,000mm
Maximum height from table top to ram bottom	67.7"	1,720mm
Maximum cutting height	61.0"	1,550mm
Maximum cutting force of ram	5,500lbf	24,500N
Maximum load on table	17,600lbs	8,000kg

**TRAVEL**

Horizontal travel of rail head (X-axis)	-3.94 ~ 45.2 -100 ~ 1,150mm	
Vertical travel of ram (Z-axis)	35.4"	900mm
Vertical travel of arm (Not NC-axis)	39.3"	1,000mm

**TABLE**

Table speed	Low; 2 ~ 100, High; 8 ~ 400min-1
Number of table speed ranges	2 ranges (Gear shift)
Maximum table torque	15,435lbf.ft 20,930N.m

**FEED RATE**

Rapid traverse X-axis (Rail head)	590ipm	15,000mm/min
Z-axis (Ram)	472ipm	12,000mm/min
Feedrate X & Z-axes	0.04 ~ 78.7i 1 ~ 2,000mm/min	
Vertical travel speed of arm / 60Hz (Not NC axis)	9.8ipm	270mm/min

**RAM**

Section of ram	9.8x9.0"	250x230mm
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**MOTORS**

Table drive motor (30min/cont.)	60/50HP	VAC 45/37kW
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**ACCURACY**

Positioning accuracy of X&Z-axes	±0.0003 pe ±0.007 per 500mm	
Positioning accuracy of X-axis	±0.0006 pe ±0.015 per 1,000mm	
Positioning accuracy of Z-axis	±0.0006 pe ±0.015 per 900mm	
Repeatability of X and Z-axes	±0.00012" ±0.003mm	
1) Accuracy under no-load and stable ambient condition		
2) Other accuracy as per the our standard test chart (testing method & tolerances)		

**MACHINE SIZE**

Machine height	198.8"	5,050mm
Floor space	200.7x147.5,100x3,750mm	
Machine weight	37,480lbs	17,000kg

## **POWER SOURCES**

Electric power supply	AC 208V, 60Hz
Power capacity	85kVA
Compressed air supply	
* Pressure	72.5 ~ 116p 0.5 ~ 0.8MPa
* Flow rate	300L/min
1) No oily, moist or dusty air shall be prepared by customer	
Air dryer is recommended to prevent moisture contamination from air supply.	
2) Customer needs to prepare either direct AC208V 60Hz or a transformer to meet the applicable power source requirement for the machine	

## **STANDARD ACCESSORIES**

- 1) Installation parts
- 2) Special service tools
- 3) Chip guard
- 4) Automatic slideway lubricating unit
- 5) Arm elevating device
- 6) Individually operated chuck jaws
  - \* 4pcs/1set
- 7) Steel telescopic crossrail slide cover
- 8) Splash cover
  - \* from table top to cover top; 69.9" (1,775mm)