TOSHIBA MACHINE MACHINERY'S MODEL; MPC-2140EII DOUBLE COLUMN TYPE MACHINING CENTER with TOSNUC 999 CNC CONTROLLER

MACHINE MAIN SPECIFICATIONS

TRAVEL

X-axis travel (Longitudinal movement of tab 177.1" 4,500mm
Y-axis travel (Cross movement of spindle he 114.1" 2,900mm
Z-axis travel (Vertical movement of ram) 35.4" 900mm
W-axis travel (Elevation of crossrail) 39.3" 1,000mm

* 9.8" (250mm) pitches at 5-positions

Height 68.8" 1,750mm

* Distance from table surface to spindle gage plane

Distance between columns 82.6" 2,100mm

TABLE

Table working surface 70.8 x 157.4 1,800 x 4,000mm

Table loading capacity 44,000lbs 20,000kg

Table surface configuration 0.9" width δ 24mm width & 200mm pitch

SPINDLE

Spindle speed 30 - 4,000min-1

Maximum spindle torque 1528N.m 156kgf.m

Type of spindle taper hole 7/24 Taper No. 50

Spindle bearing inner diameter 3.9" 100mm

SPINDLE RAM

Type Ram type

Guideway 4-face closed type

Cross section size 15 x 15" 380 x 380mm

TOOL

Type of tool shank CAT 50

Type of retention knob MAS P50T-1 (45degree)

FEEDRATE

Rapid traverse X and Y-axes 984ipm 25,000mm/min

Z-axis 1,181.1ipm 10,000mm/min W-axis 39.3ipm 1,000mm/min Feedrate X, Y and Z-Axes $0.1 \sim 393.7i \ 1 \sim 10,000$ mm/min

AUTOMATIC TOOL CHANGER

Type of tool shank CAT 50

Type of retention knob MAS P50T-1 (45 degree)

Tool storage capacity 36pots

Maximum tool diameter4.9"125mmMaximum tool length15.7"400mmMaximum tool mass66lbs30kg

Tool selection method Pot-address random short-cut

MOTOR

Spindle drive motor (30min./cont.) 40/30HP AC30/22kW

Feed motors

* X & Y-axes 10HP AC7.5kW * Z-axis 7.3HP AC5.5kW * W-axis 5.3HP AC4.0kW x 2

CNC system TOSNUC 999

Power sources

Electric power supply AC 208V, 60Hz

Power capacity 110kVA

Compressed air supply

* Pressure 72.5 ~ 116p 0.5 ~ 0.8MPa

* Flow rate 1,200NL/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

MACHINE SIZE

Machine height 255.5" 6,490mm

Floor space 267.7 x 43' 6,800 x 11,100mm

Machine weight 92,400lbs 42,000kg

ACCURACY

Positioning accuracy $\pm 0.0003/35 \pm 0.007 \text{mm/1,000mm}$

Repeatability ± 0.00012 " ± 0.003 mm

- 1) Accuracy under no-load and stable ambient condition
- 2) Other accuracy as per the our standard test chart (testing method & tolerances)

STANDARD ACCESSORIES

- 1) Numerical control TOSNUC 999
- 2) Automatic attachment indexing (AAI) for 4-positions, 90degrees indexing
- 3) Snout 240 (Vertical spindle attachment)
- 4) ATC (Tool storage capacity; 36pots)
- 5) Telescopic steel bed cover
- 6) Telescopic steel cross-rail cover
- 7) Telescopic steel column lower cover
- 8) Special tools for maintenance and operation
- 9) Hydraulic ram balancing mechanism
- 10) Automatic tool loading/unloading device
- 11) Oil mist lubrication unit for gears and bearings
- 12) Hydraulic unit
- 13) Ram slideway (Z-axis) lubrication unit
- 14) Service outlet for connecting an external device (100V, 3A)
- 15) Swing type pendant operation box
- 12) Column front steel cover
- 13) Working light (Spotlight)
- 14) Plug receptacle for external equipment (AC 100V, 2A)
- 15) Assembly and reassembly tools for maintenance
- 16) Installation parts
- 17) Auto power OFF unit