



24.01" X 15.75" 3 Axis High Speed Vertical Machining Center

- + 24 Tool High Speed Double Arm ATC
- + 1,417 Inch per Minute Rapid Rates
- + 12,000 RPM Double-Ground "Big-Plus" Spindle
- + 300-PSI Through-the-Tool Coolant System
- + Spindle Chiller for Consistent Thermal Stability
- + 2,700 Block Look-Ahead High-Speed Machining
- + 4th & 5th Axis Wiring



12,000RPM Direct Drive Spindle

Axis Travel

X-Travel	24.01" 610mm
Y-Travel	15.75" 400mm
Z-Travel	17.72" 450mm
Spindle Nose to Table Surface	5.11" – 22.83" 130 – 580mm
Spindle Center to Z-axis way covers	15.35" 390mm (throat dimension)

Table

Table Size (LxW)	25.59" x 15.75" 650mm X 400mm
T-slot width (3 T-slots total)	18 mm on 100mm centers
Max. Table Load	882 lbs. 400 kgs load

Spindle

Spindle Motor - S1/S2/S3=5.5/7.5/11kW	15-HP S3 Power, 10-HP 30-min duty rating
Spindle Speed – Mitsubishi Inline Direct-Drive	12,000rpm (15,000rpm optional)
Tool Type	CAT #40 Taper BT #40 optional
Spindle Taper Material / Hardness	SCM415 / HRC 58-62
Retention System / Holding Capability	Bellville Spring Stack 1650-1760 lbs
Spindle Runout	≤ 0.000040" T.I.R
Spindle Bearings - Front	95mm NSK 70BNR P4 class-7 bearings x2
Spindle Bearings - Rear	95mm NSK 70BNR P4 class-7 bearings x2
Retention Knob (pull stud)	C40-4502H (coolant), Japanese Standard

Axis Feeds

Accuracy X, Y, & Z axis (JIS6338)	± 0.0002" / 12" ± 0.005mm over 300mm travel
Repeatability X, Y, & Z axis (JIS6338)	± 0.0001" / 12" ± 0.003mm over 300mm travel
Least Input Command Increment	0.0001" / 0.000040" 0.001mm / (40-millionths in metric)
Rapid Traverse – X, Y / Z	1,417 / 1260 ipm 36m / 32m minute
Cutting Feedrate	0.02 - 393 ipm 10m / minute
Axis Drive Motor Power – X, Y	2.7-HP (2.0kw)
Axis Drive Motor Power - Z	3.35-HP (2.5kw)
Ballscrews – X, Y, Z	32mm ballscrews 12mm pitch
Linear Ways – X / Y / Z	30 / 35 / 35 mm Premium Cross-Roller

Tool Changer

Tool Capacity (24+1)	24-Tool Twin-Arm Hi-Speed Tool Changer
Tool Shank	CAT#40 Taper BT#40 optional
Tool Change Time	1.7-sec. tool-to-tool
Maximum Tool Diameter / w/adjacent tool	5.90" / 3.15" 150mm / 80mm
Maximum Tool Length (from gage line)	11.81" 300mm
Maximum Tool Weight	15 lbs. 7kg
Tool Selection / Tool Access	Random access Bi-directional shortest path

Specifications

Air Service Requirements	85 psi @ 14-scfm
Connected Load Electrical Requirements	50 Amp Service / 220vac ±5%, 60-Hz
Coolant Capacity	68-gallons, 256 liters
Floor space requirements (W x D x H)	87" x 73" x 113", 218x186x288cm (add 44" for conveyor)
Shipping dimensions (W x D x H)	97" x 91" x 101", 246x229x256cm
Machine Weight	9.923 pounds, 4,500 kg
Warranty – 1-year machine warranty	3-year Mitsubishi control, motors, & drive warranty