



63.1" X 27.56" 3 Axis High Speed Vertical Machining Center

- + 40 Tool High Speed Double Arm ATC
- + Spindle Chiller for Consistent Thermal Stability
- + 12,000 RPM Double-Ground "Big-Plus" Spindle
- + 300-PSI Through-the-Tool Coolant System
- + 2,700 Block Look-Ahead High-Speed Machining
- + 4th & 5th Axis Wiring
- + Y-Axis Supported with 4-Ways



Axis Travel

X-Axis Travel (6 cross-roller trucks)	63" 1,600mm
Y-Axis Travel (4 cross-roller ways w/8 trucks)	27.56" 700mm
Z-Axis Travel	27.56" 700mm
Spindle Nose to Rotary Surface	5.9" – 31.5" 150 – 800mm
Spindle Center to Z-Axis covers	28.74" 730mm (throat dimension)

Table

Table Size (LxW)	68.9 x 27.56" 1,750mm X 700mm
T-slots (5 T-Slots)	0.709" slot width 18 mm on 100mm centers
Max. Table Load	3,307lbs. 1500 kg load for full accuracy

Spindle

Spindle Motor - S1/S2/S3=22/26/30kw	25-HP 30-min rating 20-HP constant duty rating
Spindle Speed – Inline Direct-Drive	12,000rpm (15,000 & 20,000 rpm optional)
Spindle Torque	90 ft-lb @ 1,500 rpm
Tool Type	CAT #40 Taper (CAT#50, BT#40/50 optional)
Spindle Taper Material / Hardness	HRC 58-62 SCM415
Spindle Runout	≤ 0.000040 T.I.R.
Spindle Bearings - Front	110mm NSK 70BNR 2, P4 class 7 bearings
Spindle Bearings - Rear	110mm NSK 70BNR 10 x 2, P4 class-7 bearings Retention System
Holding Capability	Bellville Spring Stack 1650-1760 lbs
Retention Knob (pull stud)	#40 Japanese standard, JMTBA double 45° head angle Ø.590"

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
Least Input Command Increment	0.0001" / 0.000040" 0.001mm / (40-millionths in metric)
Rapid Traverse X and Y	944 ipm 24m/minute
Rapid Traverse Z	944 ipm 24m/minute
Ballscrews – X, Y, Z	X, Y=50mm ballscrews 10mm pitch (Z=40mm)
Cutting Feedrate	0.04 – 393 ipm
Maximum Thrust Force	4,408 lbs. 2,000 kg
Constant Thrust Force	2,204 lbs. 1,000 kg

Tool Changer

Tool Capacity (40+1)	40 Tool Twin-Arm
Tool Shank	CAT#40 Taper (CAT#50, BT#40/50 optional)
Tool Change Time (average)	1.7 seconds tool to tool
Maximum Tool Diameter / w/adjacent tool	5.90" / 3.15" 150mm / 80mm
Maximum Tool Length	11.81" 300mm
Maximum Tool Weight	15 lbs. 7kg
Tool Selection / Tool Access	Random access Bi-directional

Specifications

Air Service Requirements	85 psi @ 14-scfm
Coolant Capacity / Pressure	148 gallons / 560 liters
Connected Load Electrical Requirements	75 Amps / 220vac ±5%, 60-Hz
Floor space requirements (L x W x H)	185" x 130" x 120" 470x330x260cm (add 48" for chip conveyor)
Shipping dimensions (L x W x H)	219" x 92" x 104" 558x232x256cm
Machine Weight	26,455 pounds 12,000 kg
Warranty – 1-year machine warranty	3-year Mitsubishi control, motors, & drive warranty