



**10039**

## 98.42" X 39.37" 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-Travel	98.425" 2,500mm
Y-Travel	39.37" 1000mm
Z-Travel	35.43" (39.37" opt.) 900mm (1000mm opt.)
Spindle Nose to Table Surface	9.8"– 45.27" 250 – 1150mm
Spindle Center to Z-axis way covers	41.53" 1055mm (throat dimension)

**Table**

Table Size (LxW)	98.42" x 39.37" 2,500mm X 1000mm
T-slots (5 T-Slots)	22mm slot width on 1260mm centers
Max. Table Load	7,700 lbs. 3500 kgs load

**Spindle**

Spindle Motor – S1/S2=22/26 kW	50-Horsepower Peak, 35-HP 30-minute duty-rating
Spindle Speed	12,000rpm (15,000 optional)
Tool Type	CAT #40 Taper (CAT/BT #40 & #50 taper optional)
Spindle Taper Material / Hardness	SCM415 / HRC58-62
Retention System / Holding Capability	Bellville Spring Stack, 1650-1760 lbs
Spindle Runout	0.000040 T.I.R.
Spindle Bearings - Front	110mm NSK 70BNR 10 x 2, P4 class-7 bearings
Spindle Bearings - Rear	110mm NSK 70BNR 10 x 2, P4 class-7 bearings
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 – Z, Y	472 ipm 12m/minute
Rapid Traverse Z	393 ipm 10m/minute
Ballscrews – X, Y, Z	63mm ballscrews 10mm pitch
Cutting Feedrate	0.02 - 393 ipm 10m/minute
Axis Drive Motor Power – Z, Y	10-HP 7kw
Axis Drive Motor Power - Z	10-HP 7kw w/brake

**Tool Changer**

Tool Capacity (40+1)	40 Tool Twin-Arm Chain-Drive
Tool Shank	CAT#50 Taper (CAT#40, BT#40/50 optional)
Tool Change Time	4.3-second tool-to-tool
Maximum Tool Diameter w/ adjacent tool	5.90" / 3.15" 150mm / 80mm
Maximum Tool Length	11.81" 300mm
Maximum Tool Weight	15lbs / 7kg
Tool Selection / Tool Access	Random access / Bi-directional

**Specifications**

Air Service Requirements	85 psi @ 14-scfm
Coolant Capacity	172 gallons / 650 liters
Connected Load Electrical Requirement	100 Amps / 220vac ±5%, 60-Hz
Floor space Requirements	237" x 146" x 142" 600x370x360cm (add 52" for conveyor)
Shipping dimensions (L x W x H)	248" x 154" x 150" 630x390x380cm
Machine Weight	66,138 pounds 30,000 kg
Warranty – 1-year machine warranty	3-year Mitsubishi control, motors, & drive warranty