



2416

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

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

| | | | |
|-----------------------|---|-------------------------|--------------------------------------|
| Axis Travel | X-Axis Travel | 24.01" | 610 mm |
| | Y-Axis Travel | 15.75" | 400 mm |
| | Z-Axis Travel | 17.72" | 450 mm |
| | Spindle Nose to Work Table Surface | 5.11" – 22.83" | 130 – 580 mm |
| | Spindle Center to Z-axis way covers | 15.35" | 390 mm (throat dimension) |
| Table | Table Size (L x W) | 25.59" x 15.75" | 650 mm X 400 mm |
| | T-slot width (3 T-slots total) | 18 mm on 100 mm centers | |
| | Max. Table Load | 882 lbs. | 400 kgs load |
| Spindle | Spindle Motor – S1 / S2 / S3 = 5.5 / 7.5 / 11 kW | 15-Horsepower Peak | 10-HP 30-min. duty-rating |
| | Spindle Speed – Inline Direct-Drive | 12,000 rpm | 15,000 rpm optional |
| | Spindle Taper Material / Hardness | SCM415 / HRC 58-62 | |
| | Spindle Runout | ≤ 0.000040" T.I.R. | |
| | Retention System / Holding Capability | Bellville Spring Stack | 1,650-1,760 lbs. |
| | Retention Knob (pull stud) | C40-4502H (coolant) | Japanese Standard |
| Axis Feeds | Accuracy X, Y, & Z axis (JIS6338) | ± 0.0002" / 12" | ± 0.005 mm over 300 mm travel |
| | Repeatability X, Y, & Z axis (JIS6338) | ± 0.0002" / 12" | ± 0.003 mm over 300 mm travel |
| | Least Input Command Increment | 0.0001" / 0.000040" | 0.001 mm / (40-millionths in metric) |
| | Rapid Traverse - X, Y | 1,417 ipm | 36 m / minute |
| | Rapid Traverse- Z | 1,260 ipm | 32 m / minute |
| | Cutting Feedrate | 0.02 – 393 ipm | 10 m / minute |
| | Axis Drive Motor Power – X, Y | 2.7-HP | 2.0 kW |
| | Axis Drive Motor Power – Z | 3.35-HP | 2.5 kW |
| | Ballscrews – X, Y, Z | 32 mm ballscrews | 12 mm 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 | 2.2-sec. Tool-to-Tool | |
| | Maximum Tool Diameter / w/ adjacent tool | 5.90" / 3.15" | 150 mm / 80 mm |
| | Maximum Tool Length (from gage line) | 11.81" | 300 mm |
| | Maximum Tool Weight | 15 lbs. | 7 kg |
| | Tool Selection / Tool Access | Random access | Bi-directional shortest path |
| Specifications | Air Service Requirements | 85 psi @ 14-scfm | |
| | Electrical Requirements - connected load | 220 vac ±5%, 60-Hz | 25 kVA |
| | Coolant Capacity / Pressure | 68-gallons | 256 liters |
| | Machine Weight | 9,923 lbs. | 4,500 kg |
| Warranty | Warranty – 1-year machine warranty | | |
| | 3-year Mitsubishi control, motors, & drive warranty | | |