



6328

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"	1,600 mm
	Y-Axis Travel (4 cross-roller ways w/ 8 trucks)	27.56"	700 mm
	Z-Axis Travel (Box Ways)	27.56"	700 mm
	Spindle Nose to Work Table Surface	5.9" – 31.5"	150 – 800 mm
	Spindle Center to Z-axis way covers	28.74"	730 mm (throat dimension)
Table	Table Size (L x W)	68.9" x 27.56"	1,750 mm X 700 mm
	T-slot width (5 T-slots total)	0.709" slot width	18 mm on 100 mm centers
	Max. Table Load	3,397 lbs.	1,500 kgs for full accuracy
Spindle	Spindle Motor – S1 / S2 / S3 = 15 / 18.5 / 26 kW	35-Horsepower Peak	25-HP 30-min. duty-rating
	Spindle Speed – Inline Direct-Drive	12,000 rpm	15,000 rpm optional
	Spindle Torque	110 ft-lb @ 1,400 rpm	
	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 and Y	944 ipm	24 m / minute
	Rapid Traverse- Z	944 ipm	24 m / minute
	Cutting Feedrate	0.04 - 393 ipm	10 m / minute
	Maximum Thrust Force	4,408 lbs.	2,000 kg
	Constant Thrust Force	2,204 lbs.	1,000 kg
	Ballscrews – X, Y	50 mm ballscrews	10 mm pitch
	Ballscrews – Z	40 mm ballscrews	10 mm pitch
Tool Changer	Tool Capacity (40+1)	40-Tool Twin-Arm	Hi-Speed Tool Changer
	Tool Shank	CAT#40 Taper	(CAT#50, BT#40/50 optional)
	Tool Change Time	2.8-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	38 kVA
	Coolant Capacity / Pressure	148-gallons	560 liters
	Machine Weight	26,455 lbs.	12,000 kg
Warranty	Warranty – 1-year machine warranty		
	3-year Mitsubishi control, motors, & drive warranty		