



4024

40.55" X 23.62" 3 Axis High Speed Vertical Machining Center

- + 30 Tool High Speed Double Arm ATC
- + 1,417 Inch per Minute Rapid Rates
- + 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	40.55"	1,030 mm
	Y-Axis Travel	23.62"	600 mm
	Z-Axis Travel	25.59"	650 mm
	Spindle Nose to Work Table Surface	5.1" – 30.56"	130 – 775 mm
	Spindle Center to Z-axis way covers	22.83"	580 mm (throat dimension)
Table	Table Size (L x W)	45.66" x 19.68"	1,160 mm X 500 mm
	T-slot width (3 T-slots total)	0.709" slot width	18 mm on 100 mm centers
	Max. Table Load	1,763 lbs.	800 kgs for full accuracy
Spindle	Spindle Motor – S1 / S2 / S3 = 5.5 / 7.5 / 11 kW	30-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	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	5-HP	3.5 kW
	Axis Drive Motor Power – Z	5-HP	3.5 kW
	Ballscrews – X, Y, Z	40 mm ballscrews	12 mm pitch
Tool Changer	Tool Capacity (30+1)	30-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	33 kVA
	Coolant Capacity / Pressure	97-gallons / 300 psi	367 liters / 20-bar
	Machine Weight	15,708 lbs.	7,120 kg
Warranty	Warranty – 1-year machine warranty		
	3-year Mitsubishi control, motors, & drive warranty		