



5X-24

Full 5-Axis Machining Capability

- + Ø 25.6" Tilting Rotary Table
- + Precision Glass-Scale Feedback on X, Y, Z, and B & C axis
- + 15,000 RPM Inline Direct-Drive Beltless "Big-Plus" Spindle
- + 1,417 IPM rapid rates in X, & Y axis for fast production
- + 60-Tool High-Speed Twin-Arm Tool Changer
- + Roller-bearing style heavy-duty linear way system use on all linear axes

Axis Travel	X-Axis Travel	24.41"	620 mm
	Y-Axis Travel	20.47"	520 mm
	Z-Axis Travel	18.11"	460 mm
	Spindle Nose to Work Table Surface	5.51" – 23.62"	140 – 600 mm
	Spindle Center to Z-axis way covers	17.71"	450 mm (throat dimension)
	Maximum Workpiece Dimension	Ø20.47" x 13" tall	Ø520 x 330 mm tall
Spindle	Spindle Motor – S1 / S2 / S3 = 11/15 / 18.5 kW	25-Horsepower Peak	20-HP 30-minute duty-rating
	Spindle Speed	15,000 rpm Direct-Drive	(20,000 rpm optional)
	Spindle Torque- Duel Winding Motor	70 ft-lb 0-1,500 rpm	(95.5 Nm)
	Spindle Taper Material / Hardness	SCM415 / HRC 58-62	
	Retention System / Holding Capability	Bellville Spring Stack	1,650-1,760 lbs.
	Spindle Runout	≤ 0.000040" T.I.R.	
	Spindle Bearings - Front	110 mm NSK 70BNR2, P4 class-7 bearings	
	Spindle Bearings – Rear	110 mm NSK 70BNR2, P4 class-7 bearings	
Axis Feeds	Rapid Traverse	X, Y, Z	1,417 ipm (36 m / minute)
	Cutting Feed rate	0.04 - 394 ipm	10,000 mm / min
	Axis Drive Motor Power – X, Y	6-HP	(4.5 kW)
	Axis Drive Motor Power - Z	6-HP	(4.5 kW) w/ brake
	Ballscrews – X, Y, Z	40 mm Diameter	12 mm pitch
	Thrust Force – X, Y, Z (maximum / constant)	8,268 lbs. / 2,862 lbs.	65 Nm / 22.5 Nm
	Least Input Command Increment	0.0001" / 0.000040"	0.001 mm / (40-millionths in metric)
Tool Changer	Tool Capacity	60-Tool Twin-Arm	High Speed Tool Changer
	Tool Shank	CAT#40 Taper	BT#40, HSK 63 optional
	Tool Change Time – Tool-to-Tool	3.2-sec. Tool-to-Tool	
	Maximum Tool Diameter / w/adjacent tool	3.93" / 2.95"	100 mm / 75 mm
	Maximum Tool Length (from gage line)	10"	250 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	6 kg/cm ²
	Electrical Requirements - connected load	75 kVA	220 vac ±5%, 60-Hz
	Coolant Capacity / Pressure	106 gallons / 300 psi	400 liters / 20-bar
	Floor space requirements (W x D x H)	60" x 177" x 125"	405 x 450 x 315 cm
	Shipping dimensions (W x D x H)	97" x 102" x 115"	421 x 258 x 291 cm
	Machine Weight	21,384 lbs.	9,700 kg
	Warranty – 1-year machine warranty	3-year Mitsubishi control, motors, & drive warranty	