

Standard Machine Specifications

		VARIAXIS j-500	VARIAXIS j-500/5X	VARIAXIS j-600	VARIAXIS j-600/5X
Stroke	X-axis travel (spindle head left / right)	350 mm (13.78")		850 mm (33.46")	
	Y-axis travel (spindle head back / forth)	550 mm (21.65")			
	Z-axis travel (spindle head up / down)	510 mm (20.08")			
	A-axis travel (table tilt)	-120 ~ +30°		-	
	B-axis travel (table tilt)	-		-120 ~ +90°	
	C-axis travel (table rotation)	360°			
Table	Distance from table top to spindle nose	50 ~ 560 mm (1.97" ~ 22.05") (table horizontal)		70 ~ 580 mm (2.76" ~ 22.83") (table horizontal)	
	Table size	Φ500 mm × 400 mm (Φ19.69" × 15.75")		Φ600 mm × 500 mm (Φ23.62" × 19.69")	
	Max. workpiece size	Φ500 mm × 350 mm (Φ19.69" × 13.78")		Φ730 mm × 450 mm (Φ28.74" × 17.72")	
	Table load capacity (evenly distributed)	200 kg (441 lbs)		500 kg (1102 lbs)	
	Table surface configuration	M16 × P2 (5/8-11 UNC) tap 24		M16 × P2 (5/8-11 UNC) tap 24	
Spindle	Max. spindle speed	12000 rpm			
	Spindle taper	No. 40			
	Spindle bearing ID	Φ70 mm (Φ2.76")			
Feedrate	Rapid traverse rate (X-,Y-,Z-axis/A-axis)	30m/min (1181 IPM) / 30 rpm		-	
	Rapid traverse rate (X-,Y-,Z-axis/B-axis)	-		30m/min (1181 IPM) / 30 rpm	
	Rapid traverse rate (X-,Y-,Z-axis/C-axis)	30m/min (1181 IPM) / 30 rpm			
	Cutting feedrate (X-,Y-,Z-axis / C-axes)	30m/min (1181 IPM) / 30 rpm			
	Simultaneously controlled axes	4(A-axis only indexing)	5-axis	4 (B-axis only indexing)	5-axis
	Min. indexing increment (A-axis)	0.0001°		-	
	Min. indexing increment (B-axis)	-		0.0001°	
	Min. indexing increment (C-axis)	0.0001°			
	Indexing time(A-axis)	0.6 sec / 90°		-	
	Indexing time(B-axis)	-		0.6 sec / 90°	
Automatic tool changer	Tool shank configuration	No.40			
	Tool storage capacity	18			
	Max. tool diameter /length (from gauge line) / weight	Φ90 mm / 300 mm / 8 kg (Φ3.54" / 11.81" / 17.6 lbs)			
	Max. tool diameter with adjacent toolpockets empty	Φ130 mm (Φ5.12")			
	Tool selection method	Random selection, shortest path			
	Tool change time (chip-to-chip)	6.2 sec			
Motors	Spindle motor (40 % ED / 30 min.rating /Cont. rating)	11 kW (15 HP) / 7.5 kW (10 HP)			
	Electrical power requirement (40 % ED / 30 min.rating /Cont. rating)	29.0 kVA / 24.0 kVA	29.5 kVA / 24.5 kVA	29.4 kVA / 24.5 kVA	35.4 kVA / 30.5 kVA
	Air supply	0.5 MPa ~ 0.9 MPa (73 PSI ~ 131 PSI) 200 NL/min (7.06 ft³/min)			
Machine size	Height	2840 mm (111.81"), 2905 mm (114.37") (Consep)		3060 mm (120.47")	
	Floor space	1900 mm × 3225 mm (74.80" × 126.97")		2400 mm × 3325 mm (94.49" × 130.91")	
	Machine weight	7000 kg (15432 lbs)		11000 kg (24250 lbs)	
CNC		MAZATROL SmoothG	MAZATROL SmoothX	MAZATROL SmoothG	MAZATROL SmoothX

*1 Requires 80 mm (3.15") chamfer on top edge of workpiece.