

Model		Unit	VTM-80YB
Capacity	Max machining diameter	mm (in.)	ø800 (31.50)
	Max swing diameter	mm (in.)	ø1,010 (39.76)
	Max turning length	mm (in.)	1,135 (44.69)
	Table diameter	mm (in.)	ø800 (31.50)
	Maximum chuck size	mm (in.)	ø900 (35.43)
	Max workpiece load	kg (lb)	1,500 (3,300) (w/chuck)
Travel	X-axis travel	mm (in.)	1,120 (44.09)
	Y-axis travel	mm (in.)	710 (±355) (27.95 <±13.98>)
	Z-axis travel	mm (in.)	1,135 (44.69)
	C-axis travel	deg	360
	C-axis minimum input increment	deg	0.001
	B-axis travel	deg	90° [Opt: NC indexing 120°]
	B-axis indexing angle	deg	Every 5° [Opt: NC indexing]
Turning spindle	Spindle speed	min <sup>-1</sup>	8 to 800 (high-speed)
	Spindle speed ranges		Infinitely variable × 2
	Type of spindle nose		JIS A2-11
	Spindle front bearing diameter	mm (in.)	ø200 (7.87)
	Through-hole diameter	mm (in.)	ø110 (4.33)
	Diameter/taper		ø115/1/20
	Floor to spindle nose	mm (in.)	1,150 (45.28)
	Spindle support		2-point roller bearing spindle support
Turret (milling tool spindle)	Turret type		ATC single tool
	Standard tool	mm (in.)	□25, □32 (1 × 1, 1-1/4 × 1-1/4)
	Boring bar diameter	mm (in.)	ø40, ø50 (ø1-1/2, ø2)
Milling tool spindle	Maximum spindle speed	min <sup>-1</sup>	4,000 (with op 6,000 B-axis NC)
	No. of spindle shift steps		Infinitely variable
	Spindle shape		BT50 (BIG-PLUS®)
	Front diameter	mm (in.)	ø90 (3.54)
Tool change	Tool shank		BT50
	Pull stud		P50T-2
	Max tools (magazine capacity)	tool	36 [Opt: 60, 120]
	Max tool diameter	mm (in.)	170 (6.70) <w/o adjacent 300 (11.82)>
	Max length (from gauge line)	mm (in.)	500 (19.69)
	Max tool mass	kg (lb)	30 [Opt: 40] (66 [88])
Feed axis	Cutting federate X, Y, Z	mm/rev (ipr)	0.001 to 500.000 (0.00004 to 19.69)
	Rapid feedrate X-axis	m/min (fpm)	24 (78.74)
		Y-axis	m/min (fpm)
	Z-axis	m/min (fpm)	20 (65.62)
	C-axis	min <sup>-1</sup>	20
Motors	Turning spindle (work)	kW (hp)	OSP: VAC 30/22 (40/30) (30 min/cont) FANUC: AC 30/22 (40/30) (30 min/cont)
	Milling tool	kW (hp)	AC 18.5/15 (25/20)
	X-axis	kW (hp)	OSP: BL 4.6 (6.13) FANUC: AC 6 (8)
		Y-axis	kW (hp)
	Z-axis	kW (hp)	OSP: BL4.6 (6.13) FANUC: AC6 (8)
Machine size	Required floor space (L × W)	mm (in.)	4,885×4,870 (192.32×191.73)
	Height	mm (in.)	4,245 (167.13)
	Weight	kg (lb)	23,000 (50,600)
CNC			OSP-P300SA, FANUC 31i-B