

VTM-YB Series



		VTM-80YB	VTM-120YB	VTM-200YB	VTM-1200YB	VTM-2000YB	
CAPACITY	ITEM	UNIT					
	Max machining diameter	mm (in.)	ø800 (31.50)	ø1,200 (47.24)	ø2,000 (78.74)	ø1,250 (49.21)	ø2,000 (78.74)
	Max swing diameter	mm (in.)	ø1,010 (39.76)	ø1,500 (59.06)	ø2,400 (94.49)	ø1,500 (47.24)	ø2,400 (94.49)
	Table diameter	mm (in.)	1,135 (44.69)	1,080 (42.52) [Opt: 1,530 (60.24)]	1,400 (55.12)	-	-
	Max turning length	mm (in.)	ø800 (31.50)	ø1,000 (39.37)	ø1,400 (55.12)	ø1,080 (42.52)	ø1,400 (55.12)
	Max chuck size (w/chuck)	mm (in.)	ø900 (35.43)	ø1,250 (49.21)	ø900 (35.43)	ø1,250 (49.21)	ø2,000 (78.74)
	Max workpiece load	kg (lb)	1,500 (3,300)	2,500 (5,500)	7,000 (15,400)	3,000 [5,000] [with chuck] (6,600)	10,000 (22,000)
TRAVELS	X axis	mm (in.)	1,120 (44.09)	1,270 (50)	1,600 (62.99)	1,270 (50)	1,600 (62.99)
	Y axis	mm (in.)	710 <-235> (27.95 <-13.98>)	1,000 <-500> [Opt: 1,240 <-620>] (39.37 <-19.69> [Opt: 48.82 <-24.41>])	1,600 <-800> (62 <-31.50>)	1,000 (-500 ~ +500) [1,240 (-620 ~ +620)] (39.37 (-19.69 ~ +19.69) [-24.4 ~ +24.4])	1,600 <-800> (62 <-31.50>)
	Z axis	mm (in.)	1,135 (44.69)	1,080 [Opt: 1,530] (42.52 [60.24])	1,400 (55.12)	1,080 [1,530] (42.52 [60.24])	1,400 (55.12)
	C axis	deg			360 degrees		
	C axis minimum input increment	deg			0.001		
	B axis			90° [Opt: NC indexing 120°]		150 (-30 to +120) (minimum control angle 0.001)	
B axis indexing angle			Every 5° [Opt: NC indexing]			0.001	
TURNING SPINDLE (WORK SPINDLE)	Spindle speed	min ⁻¹	8 - 800	6 - 600	6 - 400	5 - 500 [4 - 400]	4 to 300 [4 to 200]
	Spindle speed ranges				Infinitely variable x 2 auto ranges		
	Type of spindle nose		JIS A2-11		ø380 (14.96) flat		ø1,400 [2,000] (55.12 [78.74]) table
	Spindle front bearing ID	mm (in.)	ø200 (7.87)		ø250 (10.24)		ø550/ø200 (25.59/7.87)
	Through-hole diameter	mm (in.)	ø110 (4.33)		ø160 (6.30)		ø110 (4.33)
	Diameter / taper		ø115 (ø4.53) / 1/20		ø164 / 2"		-
	Floor to spindle nose	mm (in.)	1,105 (45.28)	1,155 (45.47)	1,210 (47.64)		-
	Spindle support		2-point roller bearing spindle support				-
Max spindle torque	Nm		-		6.093 / 4.062 (20 min/cont)	8.415 / 5.610 (20 min/cont)	
TURRET	Turret type		ATC single tool			H1, ATC	
	Number of tools mounted in turret		-			1 (L/M)	
	Standard tool		□25, □32 (1 x 1, 1-1/4 x 1-1/4)			□32 (1-1/4 x 1-1/4), □25 (1 x 1)	
	Boring bar diameter	mm (in.)	ø40, ø50 (ø1-1/2, ø2)			ø40 (1.57), ø50 (1.97)	
MILLING TOOL SPINDLE	Maximum spindle speed	min ⁻¹	4,000 (with op 6,000 B-axis NC)			40 ~ 5,000 [10,000]	
	No. of spindle shift steps		Infinitely variable				
	Spindle shape		BT50 (BIG-PLUS®)				
	Front diameter	mm (in.)	ø90(3.54)				
	Max spindle torque	Nm	-			505/300/205 (3 min/30 min/cont)	
	Spindle bore diameter	mm (in.)	-			ø90 (3.54)	
TOOL CHANGE	Tool shank	mm (in.)	BT50			MAS BT50 [CAPTO C8, HSK-A100]	
	Pull stud	mm (in.)	P50T-2			BT50	
	Max tools (magazine capacity)	deg	36 [Opt: 60, 120]			36 [Opt: 60, 120]	
	Max tool diameter	deg	170 (6.70) <w/o adjacent 300 (11.82) >			w/o adjacent tool: ø290 (11.42), with adjacent tool: ø170 (6.69)	
	Max length (from gauge line)		500 (19.69)	500 [Opt: 600] (19.69 [23.62])		500 [600] (19.69 [0.78])	
Max tool mass			30 [Opt:40] (66[88])		30 [40] (66 [88])		
FEED AXES	Cutting feedrate	X, Y, Z	0.001 - 500.000 (0.00004 - 19.69)			0.001 to 1,000.000	
	Rapid traverse	X axis	24 (78.74)		16 (52.50)	32 (105)	
		Y axis	24 (78.74)		16 (52.50)	32 (105)	
		Z axis	20 (65.62)		16 (52.50)	32 (105)	
		C axis	20		20	B: 19.5 C: 20	
MOTORS	Turning spindle (work)	KW (hp)	OSP: VAC 30/22 (40/30) FANUC: AC 30/22 (40/30)				
	Milling tool	KW (hp)	AC: 18.5/15 (25/20)			VAC 37/30/22 (50/40/30) (3 min/30 min/cont)	
	X axis	OSP	BL 4.6 (6.13)	BL 5.2 (6.93)	BL 5.2 (6.93)	BL 5.2 (6.93)	
		FANUC	AC 6 (8)	AC 9 (12)	AC 9 (12)	AC 9 (12)	
	Y axis	OSP	BL 4.6 (6.13)	BL 4.6 (6.13)	BL 4.6 (6.13)	BL 4.6 (6.13)	
		FANUC	AC 7 (9.33)	AC 4.2 (5.6)	AC 4.2 (5.6)	AC 4.2 (5.6)	
	Z axis	OSP	BL 4.6 (6.13)	BL 5.2 (6.93)	BL 5.2 (6.93)	BL 5.2 (6.93)	
		FANUC	AC 6 (8)	AC 9 (12)	AC 9 (12 x 2) x 2	AC 9 (12 x 2) x 2	
	Main spindle					VAC 30/22 (40/30) (30 min/cont)	
	Feed axis					X: 5.2 (6.9), Y: 4.6 (6.1) Z: 4.6 x 2 (6.1 x 2.7)	
B axis					4.6 (6.1)		
POWER	Apparent power	KVA	-				
SIZE	Height	OSP	4,245	4,405	4,615	4,272 (168.19)	
		FANUC	3,940	4,125	4,620		
	Floor space (L x W)	OSP	4,885 x 4,870	5,150 x 5,290	5,910 x 6,335	5,512 x 5,471 (217.01 x 215.39)	
		FANUC	4,890 x 4,735	5,140 x 5,240	5,710 x 6,440	5,970 x 6,973 (235.04 x 274.53)	
Weight	kg (lb)	23,000 (50,600)	27,000 [Opt: 29,000] (59,400 [63,800])	35,000 (77,000)	28,000 (61,600)		
CNC			OSP-P300s, FANUC-311TB				