Machine Specifications

	Item	Unit	VTM-1200YB	VTM-2000YB
Capacity	Maximum chuck size	mm (in)	ø1,250 (49.21)	ø2,000 (78.74)
	Max machining diameter	mm (in)	ø1,200 (47.24)	ø2,000 (78.74)
	Max swing diameter	mm (in)	ø1,500 (59.06)	ø2,400 (94.49)
	Max turning length (height)	mm (in)	1,080 (42.52)	1,400 (55.12)
	Max workpiece load	kg (lb)	3,000 [5,000] [with chuck] (6,600 [11,000])	10,000 (22,000)
Travels	X-axis	mm (in)	1,270 (50)	1,600 (62.99)
	Y-axis	mm	1,000 (-500 to +500) [1,240 (-620 to +620)]	1,600 (-800 to +800)
		in	39.37 (-19.69 to +19.69) [48.82 (-24.41 to +24.41)]	62.99 (-31.50 to +31.50)
	Z-axis	mm (in)	1,080 [1,530] (42.52 [60.24])	1,400 (55.12)
	C-axis	deg	360 (minimum control angle 0.001)	
	B-axis	deg	150 (-30 to +120) (minimum control angle 0.001)	
Turning Spindle	Speed	min^{-1}	5 to 500 [4 to 400]	4 to 300 [4 to 200]
	Speed ranges		2 auto ranges	
	Max torque	N-m	6,093/4,062 (20 min/cont)	8,415/5,610 (20 min/cont)
	Nose type	mm (in)	ø380 (14.96) flat	ø1,400 [2,000] (55.12 [78.74]) table
	Bearing ID	mm (in)	ø260 (10.24)	ø650/ø200 (25.59/7.87)
	Through-hole diameter	mm (in)	ø160 (6.30)	ø110 (4.33)
Milling Tool Spindle	Turret type		H1, ATC	
	Number of tools mounted in turret		1 (L/M)	
	Tool dimension/diameter	mm (in)	□25 (1), □32 (1-1/4)/ø40 (1-1/2), ø50 (2)	
	Max speed	min^{-1}	40 to 10,000	
	Max torque	N-m	505/300/205 (3 min/30 min/cont)	
	Spindle diameter	mm (in)	ø90 (3.54)	
ATC	Tool shank/pull stud		MAS BT50 [CAPTO C8, HSK-A100]/MAS2 [–]	
	Max tools (magazine capacity)	tool	36 [60, 120*1]	36 [60, 120]
	Max tool diameter	mm (in)	w/o adjacent tool: ø290 (11.42) [ø250 (9.84)*2], with adjacent tool: ø170 (6.69)	
	Max tool length (from gauge line)	mm (in)	500 [600] (19.69 [23.62])*3	500 [600] (19.69 [23.62])
	Max tool mass	kg (lb)	30 [40] (66 [88])*3	30 [40] (66 [88])
Feed Axes	Rapid traverse	m/min (fpm)	X/Y/Z: 32 (105)	
		min^{-1}	B: 19.5, C: 20	
Motors	Turning spindle	kW (hp)	30/22 (40/30) (30 min/cont)	
	Milling tool spindle	kW (hp)	37/30/22 (50/40/30) (3 min/30 min/cont)	
	Axis drive	kW (hp)	OSP: X: 5.2 (6.9), Y: 4.6 (6.1), Z: 4.6 (6.1) x 2 FANUC: X: 5.0 (6.7), Y: 5.5 (7.5), Z: 5.5 (7.5) x 2	X: 4.6 (6.1) ×2, Y: 4.6 (6.1), Z: 5.2 (6.9)×2
	B-axis drive	kW (hp)	OSP: 4.6 (6.1), FANUC: 5.5 (7.5)	
Machine Size	Required floor space (L × W)	mm (in)	4,273 (168.23) [4,990 (196.46)]	4,967 (195.55)
	Height	mm (in)	5,512 × 5,471 (217.01 × 215.39)	5,970 × 6,973 (235.04 × 274.53)
	Mass	kg (lb)	28,000 (61,600) [29,500 (64,900)]*4	43,000 (94,600)*4
Controller			OSP-P300SA, FANUC 31i-B	

*1. 120-tool magazine (matrix), max tool: 600 mm × 40 kg *2. 120-tool magazine [ ] : Options
*3. Max tool: 600 mm × 40 kg; machine with high column *4. Machine only (w/o ATC magazine mass)

Standard Specifications

Turning spindle	VTM-1200YB	Automatic tool changer	36-tool magazine, fixed address type
	ø380 flat	Tool shank	MAS BT50 BIG-PLUS®
	500 min^{-1} 30/22 kW (30 min/cont)	In-machine work lamp	
	VTM-2000YB	Highly accurate C-axis	Optional for VTM-1200YB
	Table for ø1,400 boring mill jaw (4T)	CNC	OSP-P300SA/FANUC 31i-B
	300 min^{-1} 30/22 kW (30 min/cont)	Full-enclosure shielding	
Spindle cooler	Oil temperature controller	Door interlock	
Turret	H1, ATC L/M common	Foundation pads, Leveling screws	
B-axis indexing	0.001° indexing		
Milling tool spindle	10,000 min^{-1} 37/30/22 kW (3 min/30 min/cont)	Hand tools, tool box	
	Tapered bore 7/24 taper No. 50	Lube monitor B-1	
	Milling tool spindle thru-spindle coolant*	Thermo Active Stabilizer	(OSP: TAS)
Coolant system	Detachable coolant tank	Thermal Growth Compensation	(FANUC)
	Tool spindle coolant		
	Chip flusher		

* The pull stud type is for thru-spindle coolant (Okuma only).