

Model		VTR-160A	VTR-350A	
Capacity	Max swing	mm (in)	ø1,600 (62.99)	ø3,500 (137.79)
	Max turning length (height)	mm (in)	1,250 [1,600] (49.21 [62.99])	1,600 [2,000, 2,400] (62.99 [78.74, 94.49])
	Max table load	kg (lb)	10,000 (22,000)	20,000 (44,000)
	Floor to table top (standard table)	mm (in)	900 (35.43)	1,190 (46.85)
	Table diameter	mm (in)	ø1,250 (ø49.21)	ø3,000 (ø118.11)
Travel	X-axis*1	mm (in)	1,130 [1,840*2] (44.49 [72.44]) + 600 (23.62)	2,100 [3,850*2] (82.68 [151.57]) + 680 (26.77)
	Z-axis	mm (in)	900 [1,250] (35.43 [49.21])	1250 [1,500] (49.21 [59.06])
	W-axis	mm (in)	600 [800] (23.62 [31.49])	800 [1,000, 1,200]*3
	C-axis	deg	360 (minimum control angle: 0.001)	
	Table top to milling tool spindle nose	mm (in)	0 to 1,455 [0 to 1,805] (0 to 57.28 [0 to 71.06])	0 to 1,820 [0 to 2,220, 0 to 2,620] (0 to 71.65 [0 to 87.40, 0 to 103.15])
Table (turning spindle)	Speed	min ⁻¹	1 to 400	1 to 160
	Speed ranges		Auto 2 speeds	
	Torque (30 min/cont)	N·m	17,100/14,000 [28,500/22,800]	42,500/34,800 [58,000/46,400]
Milling tool spindle	Speed	min ⁻¹	30 to 3,000 [45 to 4,500]	
	Speed ranges		Stepless	
	Torque	N·m (ft·lbf)	230/190 (169/140) (30 min/cont) [380/300/250 (279/221/184) (3 min/10 min/cont)]	
	Tool shank		BT50 [BIG-PLUS®]	
	Pull stud		MAS2	
Tools	Turning tool	mm	□32	
	Magazine capacity	tool	23 [35, 59] (0.91 [1.38, 2.32]) + 1 protective ring	
Feed axis	Rapid traverse (X & Z)	m/min (ipm)	X: 20 [15*4] (65.62 [49.22]), Z: 20 (65.62)	
	Rapid traverse (C)	min ⁻¹	5	2
	Rapid traverse (W)	N (kgf·m)	0.4	1
Motors	Table motor (30 min/cont)	kW (hp)	45/37 [75/60]	55/45
	Milling tool	kW (hp)	18.5/15 (25/20) (30 min/cont) [30/24/20 (40/32/27) (3 min/10 min/cont)]	
Machine size	Height	mm (in)	5,000 [6,000] (196.85 [236.22])	6,300 [6,500, 7,250] (248.03 [255.91, 285.43])
	Required floor space	mm (in)	6,550 x 3,693 (257 x 145)	8,615 x 5,374 (339 x 211)
	Weight	kg (lb)	22,000 (48,400)	43,000 (94,600)
Max cutting force		N (kgf·m)	30,000 (3,061)	
Standard power capacity		kVA	80	95
Standard air flow		L/min	700	
CNC			OSP-P300SA	

*1: For machining + ATC

*2: Travel with in-process work gauging (diameter measuring) specifications

*3: With 36-tool magazine specifications: 650 [875, 1,050] (partial restrictions on W axis travel)

*4: Rapid traverse on X axis limited to 15 m/min during in-process gauging, diameter measuring specifications

[]: Optional