

Machine Specifications

		V40R	V60R	V80R	V100R
Capacity					
Max turning diameter	mm (in.)	ø400 (15.75)	ø610 (24.02)	ø800 (31.50)	ø1,000 (39.37)
Max swing diameter	mm (in.)	ø500 (19.69)	ø700 (27.56)	ø1,000 (39.37)	ø1,250 (49.21)
Max turning length	mm (in.)	450 (17.72)	660 (25.98)	840 (33.07)	890 (35.04)
Max chuck size	mm (in.)	ø450 (17.72)	ø610 (24.02)	ø910 (35.83)	ø1,010 (39.76)
Max workpiece weight ^{*1}	kg (lb)	300 (660)	500 (1100)	800 (1760)	1,200 (2640)
		400 kg/800 min ^{-1*2}	1,000 kg/200 min ^{-1*2}	2,000 kg/200 min ^{-1*2}	2,000 kg/200 min ^{-1*2}
Travel					
X-axis travel	mm (in.)	265 (10.43)	370 (14.57)	465 (18.31)	565 (22.24)
Z-axis travel	mm (in.)	450 (17.72)	660 (25.98)	840 (33.07)	890 (35.04)
Spindle					
Spindle speed	min ⁻¹	25 to 2,500	20 to 2,000	13 to 1,250	13 to 1,250
Spindle speed ranges		Infinitely variable			
Type of spindle nose		A2-8	A2-11		Flat ø380 (ø14.96)
Spindle front bearing dia	mm (in.)	ø120 (4.72)	ø160 (6.30)	ø200 (7.87)	
Spindle bore dia	mm (in.)	ø77 (3.03)	ø92 (3.62)	ø110 (4.33)	
Floor to spindle nose	mm (in.)	960 (37.80)	1,085 (42.72)	1,150 (45.28)	1,170 (46.06)
Spindle support		2-point roller bearing			
Turret					
Turret type		V12			
OD tool shank dimensions	mm (in.)	□25 (1)		□25, □32 (1, 1-1/4)	□32 (1-1/4)
ID tool shank diameter	mm (in.)	ø40, ø50 (1.57, 1.97)	ø40, ø50, ø63 (1.57, 1.97, 2.48)		
Feed Axis					
Cutting feedrate X, Y, Z	mm/min (ipm)	0.001 to 240.0 (0.00004 to 9.45)	0.001 to 300.0 (0.00004 to 11.81)	0.001 to 462.0 (0.00004 to 18.19)	0.001 to 500.0 (0.00004 to 19.69)
Rapid traverse X-axis	m/min (fpm)	24 (78.74)			
Z-axis	m/min (fpm)	24 (78.74)			
Motor					
Spindle drive	OSP	kW (hp)	VAC 22/18.5 (30/25) ^{*3}	VAC 30/22 (40/30) ^{*3}	AC 45/37 (60/50) ^{*4}
	FANUC	kW (hp)	AC 22/18.5 (30/25) ^{*3}	AC 30/22 (40/30) ^{*3}	AC 45/37 (60/50) ^{*5}
Machine Size					
Required floor space (width x depth)	mm (in.)	1,705 x 2,788 (67 x 110)	2,015 x 3,134 (79 x 123)	2,300 x 3,190 (90 x 126)	2,735 x 3,445 (107 x 135)
	(2SP-V)	mm (in.)	2,970 x 2,738 (116 x 108)	3,680 x 3,064 (144 x 121)	4,500 x 3,190 (177 x 126)
Machine height	mm (in.)	3,040 (119)	3,660 (144)	4,065 (160)	3,439 (135)
Machine weight	kg (lb)	7,200 (15,840)	9,500 (20,900)	11,500 (25,300)	13,000 (28,600)
	(2SP-V)	kg (lb)	14,000 (30,800)	18,500 (40,700)	22,000 (48,400)
CNC		OSP-P300L, FANUC 31i-B			

*1. With chuck *2. Max. workpiece load capacity/spindle speed restriction when spindle speed is restricted

Standard Specifications/Accessories

		V40R	V60R	V80R	V100R
Spindle		A2-8, 25 to 2500 min ⁻¹	A2-11, 20 to 2000 min ⁻¹	A2-11, 13 to 1250 min ⁻¹	Flat ø380, 13 to 1250 min ⁻¹
	OSP	22/18.5 kW (30/25) ^{*3}	30/22 kW (40/30) ^{*3}	30/22 kW (40/30) ^{*3}	45/37 kW (60/55) ^{*4}
	FANUC	22/18.5 kW (30/25) ^{*3}	30/22 kW (40/30) ^{*3}	30/22 kW (40/30) ^{*3}	45/37 kW (60/55) ^{*5}
Turret		V12	V12	V12	V12
Standard Accessories					
Coolant system	Coolant tank	290 L (76.6 gal)	400 L (105.7 gal)	450 L (118.9 gal)	450 L (118.9 gal)
	(2SP-V)	450 L (105.7 gal)	700 L (184.9 gal)	800 L (211.4 gal)	-
	Pump motor (2SP-V ⁶)	250 W			
	Shower/chip flusher (2SP-V ⁶)	620 W			
Full enclosure shielding		○			
Jack screws, foundation pads		○			
Work lamp		○			
Tool kit		○			
Standard Specifications					
Front door interlock		○			
Lubrication monitor		A-1			
Chuck open/close push button switch		○			

*3. 30 min/con *4. 5 min/con *5. 10 min/15 min *6. 2SP-V with 2 sets