



High Performance Vertical Machining Center



HV-1100V

Features:

- Fanuc Oi-MF control
- 4+1 machining
- X-axis travel: 33.5 in. (850mm)
- Y-axis travel: 19.3 in. (490mm)
- Z boxways travel: 20.7 in. (525mm)
- DDS spindle: max. 12,000rpm
- 40 taper BIG-PLUS
- 30 tool ATC
- X-Y roller guideways
- Table diameter: 13.78 in. (350mm)
- A-axis: $\pm 120^\circ$
- Max. 48m/min. rapids

Benefits:

- Integrated 4/5 axis trunnion
- Roller CAM technology

Options:

- CTS
- Tool measurement
- Workpiece measurement



HV Series | Specs

Specification	Unit	HV-800	HV-1000	HV-1100	HV-1300	HV-1650
X / Y / Z axis travel	inches (mm)	31.5 / 20.1 / 19.9 (800 / 520 / 505)	39.4 / 20.1 / 19.9 (1000 / 520 / 505)	43.3 / 24 / 23.6 (1100 / 610 / 600)	51.2 / 24 / 23.6 (1300 / 610 / 600)	65 / 31.5 / 31.5 (1650 / 800 / 800)
Spindle Nose to Table Surface	inches (mm)	5.1 - .25 (130 - 635)	3.4 - 23.8 (100 - 605)	2.6 - 26.7 (65 - 685)	2.8 - 26.4 (70 - 670)	3.4 - 35.4 (100 - 900)
Spindle Center to Column Surface	inches (mm)	22 (560)	38.2 (970)	39.8 (1010)	26 (660)	33.5 (850)
Table Surface to Floor	inches (mm)	37 (940)	38.2 (970)	39.8 (1010)	14.6 - 38.6 (370 - 980)	41.3 (1050)
Table Center to Column Surface	inches (mm)	11.8 - 32.3 (300 - 820)				17.7 - 49.2 (450 - 1250)
Table						
Table Dimension	inches (mm)	37.4 x 20.5 (950 x 850)	45.3 x 20.5 (1150 x 500)	47.2 x 23.6 (1200 x 600)	55.9 x 23.6 (1420 x 600)	66.9 x 31.5 (1700 x 800)
Max. Loading Weight	lbs (kg)	1764 (800)			3307 (1500)	
T-Slot (W x NO x P)	inches (mm)	0.7 x 0.2 x 3.9 (18 x 5 x 100)			0.7 x 0.2 x 3.9 (18 x 5 x 100)	0.7 x 0.2 x 4.9 (18 x 5 x 125)
Spindle						
Spindle Speed	rpm		12,000 / 15,000			
Spindle Taper	type		Big-Plus 40 taper			
Spindle Motor	KW	7.5/11			15/18.5	
Feedrate						
X-axis Rapid Traverse	in./min. (m/min.)	2362.2 (60)	1889.8 (48)			1417.3 (36)
Y-axis Rapid Traverse	in./min. (m/min.)	2362.2 (60)	1889.8 (48)			1417.3 (36)
Z-axis Rapid Traverse	in./min. (m/min.)	1181.1 (30)			944.9 (24)	
Automatic Tool Changer						
Tool Changer	-		ARM			
Number of Tools	T		24/30			
Pool Stud	-		JISB6339			
Max. Tool Weight	lbs (kg)		17.64 (8)			
Max. Tool Length	inches (mm)		11.8 (300)			
Max. Dim of Tool (no adjacent tool)	inches (mm)		3.1 (80) (5.9 (150))			
Tool to Tool Change Time	seconds		1.7 / 60Hz			
General						
Machine Dimensions (L x W x H)	inches (mm)	151.6 x 86 x 118.1 (3850 x 2185 x 3000)	156.7 x 86 x 118.1 (3850 x 2185 x 3000)	165.4 x 122 x 114.2 (4200 x 3100 x 2900)	173.2 x 122 x 114.2 (4400 x 3100 x 2900)	202.4 x 145.3 x 133.5 (5140 x 3690 x 3390)
Machine Weight	lbs (kg)	15101.7 (6850)	15763.1 (7150)	14991 (6800)	16093.7 (7300)	-
Water Tank Capacity	gal (liter)		66 (300)		103.4 (470)	198 (900)
Power Capacity	KVA			25		
Control						
Control – Fanuc				0i-MF		

*Specifications subject to change without notice



www.methodsmachine.com

CORPORATE OFFICE TECHNICAL CENTER AND SHOWROOM
 65 Union Avenue, Sudbury, MA 01776
 978.443.5388 | sales@methodsmachine.com

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