

MILLAC-VH Series



	ITEM	UNIT	MILLAC 800VH	MILLAC 1000VH
TRAVEL	X axis	mm (in.)	Column horizontal; 1,020 (40.16)	Column horizontal; 1,850 (72.83)
	Y axis	mm (in.)	Pallet front/back; 1,020 (40.16)	Pallet front/back; 1,300 (51.18)
	Z axis	mm (in.)	Spindlehead vertical; 1,020 (40.16)	Spindlehead vertical; 1,000 (39.37)
	Spindle nose to pallet top (spindle vertical)	mm (in.)	-100 to 920 (-3.94 to 36.22)	-100 to 900 (-3.94 to 35.43)
	Spindle center to pallet center (spindle vertical)	mm (in.)	-50 to 970 (-1.97 to 38.19)	-580 to 1,270 (-22.83 to 50)
	Spindle center to pallet top (spindle horizontal)	mm (in.)	150 to 1,170 (5.91 to 46.06)	150 to 1,150 (5.91 to 45.28)
	Spindle nose to pallet center (spindle horizontal)	mm (in.)	-300 to 720 (-11.81 to 28.35)	-830 to 1,020 (-32.68 to 40.16)
PALLET	Max work dimension	mm (in.)	800 x 800 (31.49 x 31.49)	1,000 x 1,000 (39.37 x 39.37)
	Max load capacity*	kg	1,000 (2,210)	2,000 (4,400)
	Indexing angle (curve coupling orientation)	mm	5	
	Indexing angle (any NC orientation)	mm (in.)	0.001	
	Floor to pallet top		1,230 (48.43)	1,290 (50.79)
SPINDLE	Spindle speed	min ⁻¹	100 ~ 10,000	20 ~ 6,000
	Spindle taper hole		No. 50	
	Spindle swivel angle		150	
	Indexing angle (curve indexing)		1	5
	Indexing angle (NC arbitrary indexing)	mm	0.001	
FEED	Rapid traverse rate	m/min (ipm)	X/Y/Z: 30,000	X/Y: 24,000, Z: 12,000
	Rapid traverse rate	deg/min	A/C: 10	B/C: 4
	Cutting feed rate	m/min (ipm)	X/Y/Z: 1 ~ 12,000	X/Y/Z: 1 ~ 10,000
	Cutting feed rate		A/C: 1 ~ 2,400	B/C: 1 ~ 1,080
MOTORS	Spindle	kW (hp)	22/18.5 (30/25) (15 min/cont)	22/18.5 (30/25) (30 min/cont)
	Feed axes (X/Y & Z)		X/Y: 7.0 (9.3), Z: 6.0 (8)	
	Spindle swivel serve motor		3 (4)	
	Table indexing serve motor	kW	3 (4)	7 (9.3)
ATC	Tool shank		MAS403 BT50	
	Pull stud		MAS407 P50T-II	
	Tool capacity		80	40
	Max. tool diameter (w/ adjacent tool)	mm (in.)	ø125 (ø4.92)	ø120 (ø4.72)
	Max. tool diameter (w/o adjacent tool)	mm (in.)	ø200 (7.87)	ø240 (9.45)
	Max tool length/weight	mm/kg	400/20	500/25
	Max tool moment	N•m (ft•lbf)	14.7 (10.81)	44.1 (32.43)
	Tool selection		Fixed address	
	Time needed for tool change (Tool to tool)	sec	4	9
APC	APC		2- pallet rotary-shuttle automatic pallet changer	
	APC time	sec	20	30
SIZE	Effective width between columns	mm (in.)	-	1,250 (49.21)
	Machine height	mm (in.)	OSP: 3,600 (141.73), FANUC: 3,720 (146.46)	4,224 (166.30)
	Machine weight	Width x depth	4,515 x 6,250 (177.76 x 246.06)	5,190 x 7,100 (204.33 x 279.53)
	Weight	kg (lbs.)	22,000 (48,400)	24,000 (52,800)
	Power capacity	kVA	60	OSP: 51.1, FANUC: 61
CNC			OSP-P200M, FANUC 311-A5	

Note: Tool change time shown is that measured under JIS B6013 conditions (horizontal machining center).

* APC swivel time uses differences of less than 1,000 kg in loading mass on pallets A and B.