

MCV-All Series

			MCV-AII					
CAPACITY	ITEM	UNIT	16 x 20	16 x 30	20 x 30	20 x 40	20 x 50	
	Effective width between columns	mm (in.)	1,650 (64.96)			2,050 (80.71)		
	Table to spindle nose	mm (in.)	0 - 1,360 (53.54) {0-1,380 (54.33)}			0 - 1,510 (59.45) {0 - 1,530 (60.24)}		0 - 1,460 {0 - 1,480}
	X-axis (table front/back)		2,000 (78.74)	3,000 (118.11)	3,000 (118.11)	4,000 (157.48)	5,000 (196.85)	
	Y-axis (spindlehead horizontal)	mm (in.)	1,600 (62.99)			2,000 (78.74)		
	Z-axis (quill vertical)	mm (in.)	450 (17.72)					
TABLE	Size (width x length)	mm (in.)	1,200 x 2,100 (47.24 x 82.68)	1,200 x 3,100 (47.24 x 122.05)	1,500 x 3,100 (59.06 x 122.050)	1,500 X 4,100 (59.06 X 161.42)	1,500 X 5,100 (59.06 X 200.79)	
	Working surface (width x length)	mm (in.)	1,200 x 1,800 (47.24 x 70.67)	1,200 x 2,800 (47.24 x 110.24)	1,500 X 2,800 (59.06 X 110.24)	1,500 X 3,800 (59.06 X 149.61)	1,500 X 4,800 (59.06 X 189.98)	
	T-slots (width x No.)	mm (in.)	20 x 9 (0.79) (center: 140 (5.51))			20 X 11 (0.79) (center: 140 (5.51))		20 x 9 (0.79) (center: 200 (7.87))
	Height from machine bottom	mm (in.)	700 (27.56)			750 (29.53)		800 (31.50)
	Cutting feedrate	mm/min (ipm)	1 ~ 10,000 (0.01 ~ 394)					
	Rapid traverse	mm/min (ipm)	20,000 (787)					
SPINDLE	Max load capacity	kg (lb)	6,000 (13,200)	8,000 (17,600)	10,000 (22,000)	12,000 (26,400)	20,000 (44,000)	
	Bearing diameter	mm (in.)	ø100 (3.94) [85 (3.35)] [85 (3.35)]					
	Taper bore		7/24 taper No. 50					
	Tool clamping		Pull stud (MAS 2)					
	Speed range	min ⁻¹ (rpm)	30 ~ 4,000 [30 ~ 6,000] [30 ~ 10,000]					
	Bearing diameter	mm (in.)	ø210 (8.72)					
QUILL	Cutting feedrate	mm/min (ipm)	1 ~ 10,000 (0.01 ~ 394)					
	Rapid traverse	mm/min (ipm)	10,000 (394)					
	Cutting feedrate	mm/min (ipm)	1 ~ 10,000 (0.01 ~ 394)					
SPINDLEHEAD	Rapid traverse	mm/min (ipm)	20,000 (787)					
	Travel	mm (in.)	1,000 (39.37)			1,150 (45.28)		
CROSSRAIL	Traverse rate	mm/min (ipm)	50/ 60 Hz 420/500					
	Tool shank type		MAS403 BT50					
ATC	Tool magazine capacity	tools	24 < 50, 72, 100 >					
	Max tool diameter	mm (in.)	W/ adjacent tools ø128 (5.04), w/o adjacent tool: ø230 (9.06)					
	Max tool length/weight	mm / kg (in/lb)	40/20 (15.75/44)					
	Max tool weight and moment	kg x mm (ln x in.)	20 x 150 (44 x 5.91)					
	Tool selection		Fixed address random selection					
	Spindle drive (30 min/cont)	kW (hp)	22/18.5 (30/25) [22/15 (30/20)] [22 (30)]					
MOTORS	Spindlehead brushless servo	kW (hp)	4.2 (5.6) (BL)					
	Table brushless servo	kW (hp)	3.5 (4.8) (BL)			4.2 (5.6) (BL)		4.6 (6.1) (BL)
	Quill brushless servo	kW (hp)	4.2 (5.6) (BL)					
	Crossrail vertical drive	kW (hp)	3.7 (4.9) (AC), auto-positioning crossrail specs: 3.6 (BL)					
	Height	mm (in.)	4,385 (173)			4,585 (181)		
SIZE	Floor space (machine only)	mm (in.)	4,740 x 6,000 (187 x 236)	4,740 x 8,000 (187 x 315)	5,140 x 8,100 (202 x 319)	5,140 x 10,100 (202 x 398)	5,140 x 12,200 (202 x 480)	
	Net weight (machine only)	kg (lb)	19,500 (42,900)	25,500 (56,100)	31,500 (69,300)	35,500 (78,100)	39,500 (86,900)	