

MU-V Series



	ITEM	UNIT	MU-400VA	MU-500VA	MU-500VA	
TRAVEL	X-axis (saddle left/right)	mm (in.)	762 (30.00)	1,250 (49.21)		
	Y-axis travel (pallet front/back)	mm (in.)	460 (18.11)	660 (25.98)		
	Z-axis (spindle up/down)	mm (in.)	460 (18.11)	540 (21.26)		
	A-axis	deg	+ 20 ~ -110	+ 20 ~ -110		
	C-axis	deg	360	360		
	Table surface to spindle nose	mm (in.)	100 ~ 560 (3.94 ~ 22.05)	127 to 667 (5.00 to 26.26)		
TABLE	Table size	mm (in.)	ø400 (ø15.75)	ø500 (ø9.69)	ø530 (ø20.87)	
	Max work size	kg	ø600 x h400 (ø23.62 x h15.75)*For details see p. 8			
	Floor to table top	mm	1,050 (41.34)	1,153 (45.40)		
	Max load capacity	mm (in.)	300 (660)	500 (1,100)		
	Turning spindle		-	-	C-axis: 1,000	
	SPINDLE	Spindle speed	min ⁻¹	8,000 [15,000, 20,000, 25,000, 35,000]	Standard 8,000 [15,000]	Multitasking axis 8,000 [12,000]
No. of spindle ranges			Infinitely variable			
Tapered bore			7/24 taper No. 40 [7/24 taper No. 40, HSK-A663, HSK-A63, HSK-F63]	7/24 taper No. 40 [HSK-A63]	HSK-A63	
Bearing dia		mm	ø70[ø70, ø70, ø60, ø60]	ø70 [ø70] (ø2.76 [ø2.76])		
FEED		Rapid traverse	m/min (ipm)	X-Y: 40 (1,575) Z: 32, (1,260)	X-Y: 40 / Z: 32 (1,575 / 1,260)	
		Rapid traverse (A-C)	deg/min	A: 14,400 C: 18,000	A-C: 18,000	
	Cutting feedrate	m/min (ipm)	X-Y-Z: 32 (1,260)	X-Y-Z: 32 (1,260)		
MOTORS	Spindle (10 min/cont)	kW (hp)	11/7.5 (15/10) [22/18.5, 30/22, 15/11, 15]	11/ 7.5 [22/18.5] (15/10 [30/25])		
	Turning spindle		-	-	15/11 (20/15)	
	Feed axes	kW	X-Y-Z: 4.0, A: 4.8 C: 2.8	X-Z: 4.4, Y: 5.0, A: 10, C: 2.2 (5.9, 10.4, 3.6)		
	ATC	Tool shank		MAS BT50 [HSK]	MAS BT40 [HSK]	HSK-A63
Pull stud			MAS 2 [-]	MAS 2 [-]	-	
Tool magazine capacity		Tools	20 [32, 48, 78, 104, 156, 208, 234, 338*]	20 [32, 48]		
Max. tool diameter (w/ adjacent tool)		mm (in.)	ø90 (ø3.54)			
Max. tool diameter (w/o adjacent tool)		mm (in.)	ø125 (ø4.92)			
Max tool length		mm (in.)	240 (9.45)	400 (15.75)		
Max tool weight		kg (lb)	8 (18)			
Max tool moment		N·m (ft·lbf)	7.8 [8 kg x 100 mm] (5.7 [17.6 lb x 3.94 in])			
Tool selection			Memory random [fixed address for ≥78 tools]	Memory random		
SIZE	Height	mm (in.)	2,946 (115.98)	3,541 (139.41)		
	Floor space	mm (in.)	2,200 x 2,785 (86.61 x 109.65)	2,940 x 3,367 (115.75 x 132.56)		
	Net weight	kg (lbs.)	7,700 (16,900)	13,000 (28,600)		

* matrix type for ≥ 78 tools

[] Optional