MU-V Series

	ITEM	UNIT	MU-5000V <-L> No. 40 spindle	MU-5000V <-L> No. 50 spindle	MU-6300V <-L> No. 40 spindle	MU-6300V <-L> No. 50 spindle	MU-8000V <-L> No. 40 spindle	MU-8000V <-L> No. 50 spindle
TRAVELS	X axis	mm (in.)	800 (31.50)		900 (36.42)		900 (36.42)	
	Y axis	mm (in.)	1,050 (41.34)		1,050 (41.34) (+100 ATC movements)		1,050 (41.34) (+100 ATC movements)	
	Z axis	mm (in.)	600 (23.62)		600 (23.62)		600 (23.62)	
	A axis	deg	+90 to -120		+90 to -120		+90 to -120	
	C axis	deg	360		360		360	
	Table surface spindle nose	mm (in.)	80 to 680 (3.15 to 26.77)		160 to 760 (6.30 to 29.92)		200 to 800 (7.87 to 31.50)	
TABLE	Table size	mm (in.)	ø500 (19.69)		ø630 (24.80)		ø800 (31.50) × 630 (24.80) width <ø800 (31.50)>	
	Max work size	mm (in.)	ø700 × H500 (ø27.56 × H19.69)		ø830 × H550 (ø32.68 × H21.65)		ø1,000 × H550 (ø39.37 × H21.65)	
	Floor to table top	mm (in.)	1,150 (45.28)		1,150 (45.28)		1,210 (47.64)	
	Max load capacity*	kg (lb)	500 (1,100)		600 (1,320)		700 (1,540)	
	(turning spindle speed)	min-1	<1,000>		<800>		<800>	
SPINDLE	Spindle speed	min-1	10,000 [15,000, 20,000, 25,000] <8,000, 12,000>	6,000 [12,000]<10,000> <8,000, 12,000>	10,000 [15,000, 20,000, 25,000] <8,000, 12,000>	6,000 [12,000]<10,000> <8,000, 12,000>	10,000 [15,000, 20,000, 25,000] <8,000, 12,000>	6,000 [12,000]<10,000> <8,000, 12,000>
	Tapered bore		7/24 taper No.40	7/24 taper No.50	7/24 taper No.40	7/24 taper No.50	7/24 taper No.40	7/24 taper No.50
	No. of spindle ranges		Stepless		Stepless		Stepless	
	Bearing dia	mm (in.)	40ø70 (2.76)	ø90 (3.54)	40ø70 (2.76)	ø90 (3.54)	40ø70 (2.76)	ø90 (3.54)
FEED	Rapid traverse	mm/min (ipm)	X-Y-Z: 50 (1.97)		X-Y-Z: 50 (1.97)		X-Y-Z: 50 (1.97)	
	Rapid traverse	deg/min	A: 18,000 (50 min-1) C: 18,000 (50 min-1) <36,000 (100 min-1)>		A: 10,800 (30 min-1) C: 32,400 (90 min-1)		A: 10,800 (30 min-1), C: 32,400 (90 min-1)	
	Cutting feedrate	mm/min	X-Y-Z: 1 to 50,000		X-Y-Z: 1 to 50,000		X-Y-Z: 1 to 50,000	
MOTORS	Spindle (10 min/cont)	kW (hp)	11/7.5 (15/10) [22/18.5 (30/25), 30/22 (40/30), 15/11 (20/15)] <11/7.5 (15/10), 22/18.5 (30/25)>	11/7.5 (15/10) [26/18.5 (35/25)] <26/18.5 (35/25)>	11/7.5 (15/10) [22/18.5 (30/25), 30/22 (40/30), 15/11 (20/15)] <11/7.5 (15/10), 22/18.5 (30/25)>	11/7.5 (15/10) [26/18.5 (35/25)] <26/18.5 (35/25)>	11/7.5 (15/10) [22/18.5 (30/25), 30/22 (40/30), 15/11 (20/15)] <11/7.5 (15/10), 22/18.5 (30/25)>	11/7.5 (15/10) [26/18.5 (35/25)] <26/18.5 (35/25)>
	Feed axes	kW (hp)	X: 5.2 (6.9), Y-Z: 3.5 (4.7), A: 3.5 × 2 (4.7 × 2), C: 3.0 (4) <2.2 (2.9)> × 2 (2.7)		X: 5.2 (6.9), Y-Z: 3.5 (4.7), A: 4.6×2 (6.1×2), C: 7.2 (9.6)		X: 5.2 (6.9), Y-Z: 3.5 (4.7), A: 4.6×2 (6.1×2), C: 7.2 (9.6)	
ATC	Tool shank		MAS BT.40	MAS BT.50	MAS BT.40	MAS BT.50	MAS BT.40	MAS BT.50
	Pull stud		MAS2		MAS2		MAS2	
	Tool capacity (magazine)		32 [48-tool, 64-tool: chain, Over«64-tool: matrix]		32 [48-tool, 64-tool: chain, Over«64-tool: matrix]		32 [48-tool, 64-tool: chain, Over«64-tool: matrix]	
	Max tool dia (w/adjacent / w/o adjacent)	mm (in.)	ø90/ø125 (ø3.54/ø4.92)	ø100/ø152 (ø3.94/5.98	ø90/ø125 (ø3.54/ø4.92)	ø100/ø152 (ø3.94/5.98	ø90/ø125 (ø3.54/ø4.92)	ø100/ø152 (ø3.94/5.98
	Max tool length	mm (in.)	400 (15.75)		400 (15.75)		400 (15.75)	
	Mat tool weight	kg (lb)	8 (17.6)	12 (26.4) [15 (33)]	8 (17.6)	12 (26.4) [15 (33)]	8 (17.6)	12 (26.4) [15 (33)]
	Tool selection		Memory random (matrix magazine is fixed address system)		Memory random (matrix magazine is fixed address system)		Memory random (matrix magazine is fixed address system)	
MACHINE SIZE	Height	mm (in.)	3,435 (135.24)		3,525 (138.78)		3,625 (142.72)	
	Floor space (including tank)	mm (in.)	3,995 × 2,750 (157.28 × 108.27)	3,995 × 2,840 (157.28 × 111.81)	4,850 × 2,990 (190.94 × 117.72) (step excluded)		5,280 × 2,990 (207.87 × 117.72)	
	Weight (w/CNC system)	kg (lb)	16,200 (35,640)		17,500 (38,500)		18,000 (39,600)	
CNC			OSP-P300M <OSP-P300S>		OSP-P300M <OSP-P300S>		OSP-P300M <OSP-P300S>	

Note: With APC specs the maximum load capacity on the pallet is limited. [ ]: Optional < -L >: Turning specifications