

	Item	Unit	MU-5000V <-L> No. 40 spindle	MU-5000V <-L> No. 50 spindle
Travels	X axis (table L/R)	mm (in.)	800 (31.50)	
	Y axis (spindle saddle front / back)	mm (in.)	1,050 (41.34)	
	Z axis (spindle ram vertical)	mm (in.)	600 (23.62)	
	A axis (trunnion swivel)	deg	+90 to -120	
	C axis (table swivel)	deg	360 (infinite)	
	Table surface to spindle nose	mm (in.)	80 to 680 (3.15 to 26.77)	
Table	Table size	mm (in.)	ø500 (19.69)	
	Max work size	mm (in.)	ø700 × H500 (ø27.56 × H19.69)	
	Floor to table top	mm (in.)	1,140 (44.88)	
	Max load capacity*	kg (lb)	500 (1,100)	
	(turning spindle speed)	min ⁻¹	<1,000>	
Spindle	Spindle speed	min ⁻¹	10,000 [15,000, 20,000, 25,000] <8,000, [12,000]>	6,000 [12,000] <10,000>
	Tapered bore		7/24 taper No.40 <HSK-A63>	7/24 taper No.50 <HSK-A100>
	No. of spindle ranges		Infinitely variable	
	Bearing dia	mm (in.)	ø70 (2.76)	ø90 (3.54)
Feed	Rapid traverse	m/min (ipm)	X-Y-Z: 50 (1,969)	
	Rapid traverse	deg/min	A: 18,000 (50 min ⁻¹) C: 18,000 (50 min ⁻¹) <36,000 (100 min ⁻¹)>	
	Cutting feedrate	mm/min	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)>
	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) <5.0 (6.7)>	
ATC	Tool shank		MAS BT.40 <HSK-A63>	MAS BT.50 <HSK-A100>
	Pull stud		MAS2 <->	
	Tool capacity (magazine)		32-tool [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)
	Max tool length	mm (in.)	400 (15.75)	
	Max tool weight	kg (lb)	8 (17.6)	12 (26.4) [15 (33)]
	Tool selection		Memory random (matrix magazine is fixed address system)	
Machine size	Height	mm (in.)	3,435 (135.24)	
	Floor space W x D (w/o operator platform)	mm (in.)	3,995 × 2,750 (157.28 × 108.27)	3,995 × 2,840 (157.28 × 111.81)
	Weight	kg (lb)	15,400 (33,880)	15,650 (34,430)
CNC			OSP-P300MA <OSP-P300SA>	

* With APC specifications, there are limits on maximum pallet load and maximum workpiece dimensions

[]: Optional

< >: Turning specifications

	Item	Unit	MU-6300V <-L> No. 40 spindle	MU-6300V <-L> No. 50 spindle
Travels	X axis (table L/R)	mm (in.)	925 (36.42)	
	Y axis (spindle saddle front / back)	mm (in.)	1,050 (41.34) (+100 ATC movements)	
	Z axis (spindle ram vertical)	mm (in.)	600 (23.62)	
	A axis (trunnion swivel)	deg	+90 to -120	
	C axis (table swivel)	deg	360 (infinite)	
	Table surface to spindle nose	mm (in.)	160 to 760 (6.30 to 29.92)	
Table	Table size	mm (in.)	ø630 (24.80)	
	Max work size	mm (in.)	ø830 × H550 (ø32.68 × H21.65)	
	Floor to table top	mm (in.)	1,150 (45.28)	
	Max load capacity*	kg (lb)	600 (1,320)	
	(turning spindle speed)	min ⁻¹	<800>	
Spindle	Spindle speed	min ⁻¹	10,000 [15,000, 20,000, 25,000] <8,000, [12,000]>	6,000 [12,000] <10,000>
	Tapered bore		7/24 taper No.40 <HSK-A63>	7/24 taper No.50 <HSK-A100>
	No. of spindle ranges		Infinitely variable	
	Bearing dia	mm (in.)	ø70 (2.76)	ø90 (3.54)
Feed	Rapid traverse	m/min (ipm)	X-Y-Z: 50 (1,969)	
	Rapid traverse	deg/min	A: 10,800 (30 min ⁻¹) C: 32,400 (90 min ⁻¹)	
	Cutting feedrate	mm/min	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)>
	Feed axes	kW (hp)	X: 5.2 (6.9), Y-Z: 3.5 (4.7), A: 4.6 × 2 (6.1 × 2), C: 7.2 (9.6) <16.0 (21.3)>	
ATC	Tool shank		MAS BT.40 <HSK-A63>	MAS BT.50 <HSK-A100>
	Pull stud		MAS2 <-->	
	Tool capacity (magazine)		32-tool [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)
	Max tool length	mm (in.)	400 (15.75)	
	Max tool weight	kg (lb)	8 (17.6)	12 (26.4) [15 (33)]
	Tool selection		Memory random (matrix magazine is fixed address system)	
Machine size	Height	mm (in.)	3,525 (138.78)	
	Floor space W x D (w/o operator platform)	mm (in.)	4,850 × 2,990 (190.94 × 117.72)	
	Weight	kg (lb)	17,500 (38,500)	17,700 (38,940)
CNC			OSP-P300MA <OSP-P300SA>	

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[]: Optional

< >: Turning specifications

	Item	Unit	MU-8000V <-L> No. 40 spindle	MU-8000V <-L> No. 50 spindle
Travels	X axis (table L/R)	mm (in.)	925 (36.42)	
	Y axis (spindle saddle front / back)	mm (in.)	1,050 (41.34) (+100 ATC movements)	
	Z axis (spindle ram vertical)	mm (in.)	600 (23.62)	
	A axis (trunnion swivel)	deg	+90 to -120	
	C axis (table swivel)	deg	360 (infinite)	
	Table surface to spindle nose	mm (in.)	200 to 800 (7.87 to 31.50)	
Table	Table size	mm (in.)	ø800 (31.50) × 630 (24.80) width <ø800 (31.50)>	
	Max work size	mm (in.)	ø1,000 × H550 (ø39.37 × H21.65)	
	Floor to table top	mm (in.)	1,210 (47.64)	
	Max load capacity*	kg (lb)	700 (1,540)	
	(turning spindle speed)	min ⁻¹	<800>	
Spindle	Spindle speed	min ⁻¹	10,000 [15,000, 20,000, 25,000] <8,000, [12,000]>	6,000 [12,000] <10,000>
	Tapered bore		7/24 taper No.40 <HSK-A63>	7/24 taper No.50 <HSK-A100>
	No. of spindle ranges		Infinitely variable	
	Bearing dia	mm (in.)	ø70 (2.76)	ø90 (3.54)
Feed	Rapid traverse	m/min (ipm)	X-Y-Z: 50 (1,969)	
	Rapid traverse	deg/min	A: 10,800 (30 min ⁻¹) C: 32,400 (90 min ⁻¹)	
	Cutting feedrate	mm/min	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)>
	Feed axes	kW (hp)	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 <HSK-A63>	MAS BT.50 <HSK-A100>
	Pull stud		MAS2 <-->	
	Tool capacity (magazine)		32-tool [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)
	Max tool length	mm (in.)	400 (15.75)	
	Max tool weight	kg (lb)	8 (17.6)	12 (26.4) [15 (33)]
	Tool selection		Memory random (matrix magazine is fixed address system)	
Machine size	Height	mm (in.)	3,625 (142.72)	
	Floor space W x D (w/o operator platform)	mm (in.)	5,280 × 2,990 (207.87 × 117.72)	
	Weight	kg (lb)	18,400 (40,480)	18,600 (40,920)
CNC			OSP-P300MA <OSP-P300SA>	

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[]: Optional

< >: Turning specifications