

			MA-500HII		MA-600HII	
	Item	Unit	No. 50	No. 40*1	No. 50	No.40*1
Travels	X-axis travel (column left/right)	mm (in.)	700 (27.56)		1,000 (39.37)	
	Y-axis travel (spindle up/down)	mm (in.)	900 (35.43)			
	Z-axis travel (table front/back)	mm (in.)	780 (30.71)		1,000 (39.37)	
	Spindle center to pallet top	mm (in.)	50 to 950 (1.97 to 37.40)			
	Spindle nose to pallet center	mm (in.)	70 to 850 (2.76 to 33.46)		70 to 1,070 (2.76 to 42.13)	
Pallet	Work area	mm (in.)	500 × 500 (19.69 × 19.69)		630 × 630 (24.80 × 24.80)	
	Max load capacity	kg	800 [1,000]		1,200 [1,400]	
	Indexing angle	deg	1 [0.001]			
	Max workpiece dimensions	mm (in.)	ø800 × 1,000 (ø31.50 × 39.37)		ø1,000 × 1,000 (ø39.37 × 39.37)	
Spindle	Spindle speed	min <sup>-1</sup>	50 to 6,000 [50 to 6,000 (Super-heavy spindle), 50 to 12,000]	50 to 15,000, 50 to 20,000	50 to 6,000 [50 to 6,000, (Super-heavy spindle), 50 to 12,000, 20,000]	50 to 15,000, 50 to 20,000
	Tapered bore		7/24 taper No. 50 [HSK-A100]	7/24 taper No. 40, HSK-A63*2	7/24 taper No. 50 [HSK-A100]*3	7/24 taper No. 40, HSK-A63*2
	Bearing dia	mm (in.)	ø100 (ø3.94)	ø70 (ø2.76)	ø100 (ø3.94)	ø70 (ø2.76)
Feedrate	Rapid traverse	m/min (ipm)	X-Y-Z: 60 (2,362)			
	Cutting feed	mm/min (ipm)	X-Y-Z: 1 to 60,000 (0.04 to 2,362)			
Motors	Spindle (10 min/cont) *4	kW (hp)	30/22 [45/37*4, 37/26] (40/30 [60/50, 50/35])	26/18.5, 30/22 (35/25, 40/30)	30/22 [45/37*4, 37/26, 55/50*5] (40/30 [60/50, 50/35, 75/66])	26/18.5, 30/22 (35/25, 40/30)
	Feed axis motors	kW (hp)	X: 4.6 (6.13), Y: 4.6 (6.13) × 2, Z: 4.6 (6.13)		X: 4.6 (6.13), Y: 4.6 (6.13) × 2, Z: 5.2 (6.93)	
	Table indexing	kW (hp)	3.5 (4.67)			
ATC	Tool shank		MAS403 BT50 [HSK-A100]	MAS 403 BT40, HSK-A63*2	MAS403 BT50 [HSK-A100]*3	MAS 403 BT40, HSK-A63*2
	Pull stud		MAS-2 [-]			
	Magazine capacity	tools	40 [60, 81, 111, 141, 171, 195, 225, 255, 285, 320, 400]			
	Max tool dia (w/ adjacent) *6	mm (in.)	ø140 (5.51)	ø100 (3.94)	ø140 (5.51)	ø100 (3.94)
	Max tool dia (w/o adjacent) *6	mm (in.)	ø240 (9.45)	ø150 (5.91)	ø240 (9.45)*7	ø150 (5.91)
	Max tool length	mm (in.)	450 (17.72)	450 (17.72)	450 [600] (17.72 [23.62])	450 (17.72)
	Max tool weight	kg (lb)	25 (55)	10 (22)	25 (55)	10 (22)
	Tool selection		Memory random (Fixed with 81 or more tools)			
Machine size	Height	mm (in.)	3,174 (124.96)			
	Floor space; width x depth	mm (in.)	3,110 × 5,971 (122.44 × 235.08)		3,410 × 6,495 (134.25 × 255.71)	
	Weight	kg (lb)	21,500 (47,300)		24,500 (53,900)	
Controller		OSP-P300MA				

[ ]: Optional

\*1. No. 40 spindle is optional.

\*2. 20,000 min<sup>-1</sup> with HSK-A63 only

\*3. 20,000 min<sup>-1</sup> with HSK-A100 only

\*4. Super-heavy spindle motor rating is 20 min/cont (for heavy-duty cutting)

\*5. 20,000 min<sup>-1</sup> spindle motor rating is 30 min/cont

\*6. Values differ with a matrix magazine. Please inquire.

\*7. With MA-600HII 20,000 min<sup>-1</sup>, the maximum tool diameter is limited depending on the spindle speed used.