

# MA-H Series



		ITEM	UNIT	MA-400HA			MA-800HB			MA-12500HB		
TRAVELS	X axis	mm (in.)	560 (22.05)			1,400 (55.12)			2,200 (86.61)			
	Y axis	mm (in.)	610 (15.49)			1,250 (49.21)			1,600 (62.99)			
	Z axis	mm (in.)	625 (24.61)			1,250 (49.21)			1,650 (64.96)			
	Spindle center to pallet top	mm (in.)	50 – 660 (1.97 – 25.98)			50 to 1,300 (1.97 to 51.18)			Tapping specs: 50–1,650 (1.97–51.18) T-slot specs: 20–1,620 (0.97–63.78)			
	Spindle nose to pallet center	mm (in.)	85 – 710 (3.35 – 27.95)			100 to 1,350 (3.94 to 53.15)			225 to 1,875 (8.86 to 73.82)			
PALLET	Work area	mm (in.)	400 x 400 (15.75 x 15.75)			800 x 800 (31.50 x 31.50)			1,250 x 1,250 (49.21 x 49.21)			
	Indexing angle	degrees				1 [.001]						
	Max workpiece dimensions	mm (in.)	ø600 x 710 <sup>*1</sup> (ø23.62 x 27.95)			ø1,400 x 1,450 (ø55.12 x 57.09)			ø2,200 [ø2,400] x H1,600 [ø78.74 [ø94.49] x H62.99]			
	Max workpiece weight	kg (lb)	400 (880)			2,000 (4,400)			5,000 (11,100)			
SPINDLE	Spindle speed	min <sup>-1</sup>	Standard spindle 50 – 8,000	Wide-range spindle <50 – 15,000>	High speed spindles <50 – 20,000>	50 – 60,000 [50 – 12,000]			50 – 60,000 [10 – 4,500 <gear>], [50 – 12,000 <integral>]			
	Tapered bore		7/24 taper No. 40			NT50 [HSK-A100]			7/24 taper No. 50 [HSK-100, HSK-A125]			
	Bearing dia	mm (in.)	ø70 (ø2.76)	ø70 (ø2.76)	ø70, ø60, ø60 (ø2.76, ø2.36, ø2.36)	ø100 (ø3.94) [ø100 (ø3.94)]			ø100 (ø3.94) [ø110 (ø4.33) <gear>]			
FEEDRATE	Rapid traverse (X-Y-Z)	m/min (ipm)	60 (2,362)			50 (1969)			42 (1,653.54)			
	Cutting federate (X-Y-Z)	mm/min	1 – 60,000 (0.04 – 2,362)			1 to 50,000 (0.04 to 1969)			1 to 42,000 (0.04 to 1,653.54)			
MOTORS	Spindle drive (10 min/cont.)	kW (hp)	15/11 (20/15)	26/18.5 (35/25)	30/22 (40/30) 15/11 (20/15) 15 (20)	30/22 (40/30) [37/26 (50/35)]			45/37 (60/49) (20 min/cont) [40/37/30 (53/60/40) (15 min/30 min/cont) <gear>] [37/26 (49/35) (10 min/cont) <integral>]			
	Feed shaft motors (X-Y-Z)	kW (hp)	4.6/4.6/4.6 (6.3/6.3/6.3)			4.4 x 2 / 5.0 x 2 / 4.4 x 2			X-Z: 5.2 x 2 (6.9 x 2.7), Y: 5.1 x 2 (6.8 x 2.7), B: 4.6 x 2 (6.1 x 2.7)			
	Table indexing	kW (hp)	3.0 (4.1)			5.0 (7.0)						
ATC	Tool shank type		MAS403 BT40 <HSK-A63>		HSK-A63, A63, F63	MAS 403 BT50 [HSK-A100]			MAS BT50 [CAT No. 50, DIN No. 50, HSK-A100, HSK-A125*] * HSK-A125 only with 4,500 min-1			
	Pull stud		MAS 2 <sup>*2</sup> <->		-	MAS Type 2			MAS 2 [MAS1, CAT, Special CAT, DIN, JIS]			
	Tool capacity	tools	30 <Opt: 40, 60, 100, 152, 198>			50 [60, 100, 150, 200, 240, 320, 400]			81 [129, 177]			
	Max tool dia (w/ adjacent tool)	mm (in.)	ø100 (3.94)			ø140 ( 5.51)			ø130 (ø5.12)			
	Max tool dia (w/o adjacent tool)	mm (in.)	ø150 (5.91)			ø240 (9.45)			ø315 (ø12.40)			
	Max tool length	mm (in.)	300 (11.81)			600 (23.62)			600 (23.62)			
	Max tool weight	kg (lb)	10 (7.4)			25 (55)			30 (66)			
Tool selection		Memory random (Fixed with 100 or more tools)			Memory random*			Fixed address				
SIZE	Height	mm (in.)	2,759 (108.62)			3,460 (136.22)			3,733 (146.97)			
	Floor space (W x D)	mm (in.)	2,414 x 4,532 (95.04 x 178.43)			4,745 x 6,465 (186.81 x 254.53)			6,880 x 11,532 (270.87 x 454.02) [6,880 x 13,257 (270.87 x 521.93) (177-tool matrix magazine)]			
	Weight	kg (lb)	11,400 (25,080)			33,600 (73,920)			64,000 (140,800)			

\*1. ø500 x 710 (ø19.68 x 27.95) when the spindle must operate within 50 mm (1.97 in.) from the pallet (XYZ telescopic cover interference).

\*2. Thru-spindle content specs use JIS standard specs.

[ ] : Optional