

SPECIFICATIONS		MA-550V-S (Short Bed)	MA-550V	MA-650V-S (Short Bed)	MA-650V	
TRAVELS	X Axis - Table L-R,	mm (in)	900 (35.43) {Combination Ways}	1,300 (51.18) {Combination Ways}	1,100 (43.30) {Combination Ways}	1,530 (60.24) {Combination Ways}
	Y Axis	mm (in)	560 (22.05)		660 (25.98)	
	Z Axis - Spindlehead U-D	mm (in)	560 (22.05) {Combination Guideway}		610 (24.01) {Combination Guideway}	
	Spindle End to Table Surface	mm (in)	200-760 (7.87-29.92)		230-840 (9.05-33.07)	
TABLE	Table Size	mm (in)	1,050x560 (41.34x22.05)	1,300x560 (51.18x22.05)	1,300x660 (51.18x25.98)	1,530x660 (60.24x25.98)
	Max Load Capacity	kg (lb)	1,000 (2,200)		1,500 (3,300)	
	Floor to Table Top / T-Slots	mm (in)	840 (33.07) / 4x125 (4.92)		890 (35.04) / 5x125 (4.92)	
SPINDLES	Available Spindles		6k	12k	25k	
	Spindle Bore Taper		NT50	NT50	HSK-A63	
	Spindle Speed	min ⁻¹	50-6,000	50-12,000	50-25,000	
	Bearing Inner Diameter	mm (in)	Ø 100 (Ø 3.94)	Ø 85 (Ø 3.34)	Ø 60 (Ø 2.36)	
	Spindle Nose Diameter	mm (in)	Ø 128 (Ø 5.018)		Ø 90 (Ø 3.54)	
MOTOR	Spindle Head Cooling	lit (gal)	21.5 (5.68)	60 (15.9)	60 (15.9)	
	Spindle Motor [10 / 30 cont.]	kW (hp)	22 / 15 / 11 (30 / 20 / 15)	22 / 15 / 11 (30 / 20 / 15)	15 / 11 (20 / 15) [30]	
	Motor Torque [10 / 30 cont.]	mm (in)	114 (828)	29.8 (216)	2.97 (21.7)	
ATC	Magazine Capacity		32 [opt. 48]	32 [opt. 48]	32 [opt. 48]	
	Tool Shank V-Flange Type		CAT50	CAT50	HSK-A63	
	Max Tool Dia (w Adjacent)	mm (in)	Ø 135 (Ø 5.31)	Ø 135 (Ø 5.31)	Ø 100 (Ø 3.94)	
	Max Tool Dia (wo Adjacent)	mm (in)	Ø 230 (Ø 9.31)	Ø 230 (Ø 9.31)	Ø 150 (Ø 5.91)	
	Max Tool Weight	kg (lbs)	20 (44)	20 (44)	10 (22)	
	Tool Changing Time T-T/C-C	sec	T-T: 2.4-4.4 / C-C: 5-7.4	T-T: 2.4-4.4 / C-C: 5-7.4	T-T: 2.4 / C-C: 5.9	
FEED	Max Tool Length	mm (in)	400 (15.75)	400 (15.75)	300 (11.81)	
	Rapid Traverse X : Y / Z	meter/min (ipm)	40 / 30 (1,575 / 1,181)		40 / 30 (1,575 / 1,191)	
	Max Cutting Feedrate X : Y : Z	mm/min (ipm)	1-30,000 (0.04-1,181)		1-30,000 (0.04-1,181)	
	BL Axis Servos	kW (hp)	X: 6 (8) Y: 6 (8) Z: 6.7 (8.9)		X: 6 (8) Y: 6 (8) Z: 6.7 (8.9)	
SIZE	Z-Axis Thrust	kgf (lbf)	1,500 (3,308)		1,500 (3,308)	
	Floor Space WxD	mmxmm (min)	2,500x2,795 (98.42x110.04)	3,200x2,795 (125.98 x 110.04)	3,000x3,000 (118.11x118.11)	3,750x3,000 (147.6x118.11)
	Net Weight - w/Std ATC + Column	kg (lbs)	11,300 (24,860)	11,800 (25,960)	14,000 (30,800)	15,000 (33,000)
ACC	Positioning Accuracy	mm (in)	X,Y & Z: +/-0.004 (0.000160) Full Stroke [JIS Method]		X,Y & Z: +/-0.004 (0.000160) Full Stroke [JIS Method]	
	Repeatability Accuracy	mm (in)	X,Y & Z: +/-0.0015 (+/-0.000059) [JIS Method]		X,Y & Z: +/-0.0015 (+/-0.000059) [JIS Method]	