

	Item	Unit	MU-10000H
Travel	X axis travel (table L/R)	mm (in.)	1,550 (61.02)
	Y axis travel (spindlehead vertical)	mm (in.)	1,600 (62.99)
	Z axis travel distance (column front/back)	mm (in.)	1,650 (64.96)
	A axis (trunnion swivel)	deg	+35 to -115
	B axis (pallet swivel)	deg	±360
	Pallet top (centerline) to spindle centerline	mm (in.)	Tap specifications: A axis = 0°: -475 to +1,125 (-18.70 to +44.29) [T-slot specifications: A axis = 0°: -505 to +1,095 (-19.88 to +43.11)] A axis = -90°: -610 to +990 (-24.02 to +38.98)
	Pallet centerline (top) to spindle nose	mm (in.)	A axis = 0°: 40 to 1,690 (1.57 to 66.54), Tap specifications: A axis = -90°: 175 to 1,825 (6.89 to 71.85) [T-slot specifications: A axis = -90°: 145 to 1,795 (5.71 to 70.67)]
Pallet	Pallet dimensions	mm (in.)	□1,000 (39.37)
	Max load capacity	kg (lb)	Tap specifications: 2,500 (5,500) [T-slot specifications: 2,300 (5,060)]
	Max workpiece dimensions	mm (in.)	Tap specifications: ø1,500 × h1,175 (ø59.06 × h46.26) [T-slot specifications: ø1,500 × h1,145 (ø59.06 × h45.08)]
Spindle	Spindle speed	min ⁻¹	50 to 6,000 [10 to 4,500 (gear spindle), 50 to 12,000 (Integral spindle)]
	Tapered bore		7/24 taper No. 50
	Bearing dia (front bearing)	mm (in.)	ø100 (3.94) [ø110 (4.33) (gear spindle)]
Feed	Rapid traverse	m/min (fpm)	X - Y - Z : 42 (137.80)
		deg/min	A: 4,320, B: 7,200
	Cutting feedrate	mm/min	X - Y - Z : 1 to 42,000
		deg/min	A: 4,320, B: 7,200
Motors	Spindle drive	kW (hp)	45/37 (60/50) (20 min/cont) [40/37/30 (55/50/40) (15/30 min/cont) (gear spindle), 37/26 (50/35) (10 min/cont) (Integral spindle)]
	Feed axes	kW (hp)	X - Z: 5.2 (7) × 2, Y: 5.1 (7) × 2, A: 5.1 (7) × 2, B: 3.5 (5) × 2
ATC	Tool capacity	tools	[81, 129, 177]
	Tool shank		MAS BT50 [CAT No.50, DIN No.50, HSK-A100, HSK-A125*] Note: HSK-A125 is not available with 6,000 min ⁻¹ , 12,000 min ⁻¹ spindle.
	Pull stud		MAS 2 [MAS 1, CAT, CAT Special, DIN, JIS]
	Max tool dia (w/ adjacent tool)	mm (in.)	ø130 (5.12)
	Max tool dia (w/o adjacent tool)	mm (in.)	ø315 (12.40)
	Max tool length	mm (in.)	600 (23.62)
	Max tool weight	kg (lb)	30 (66)
	Max tool moment	N-m (ft-lbf)	37 (27)
	Tool selection		Fixed address
APC	No. of pallets		2 [6]
	Pallet change system		2-pallet parallel shuttle
Machine size	Height	mm (in.)	3,694 (145.43)
	Floor space W x D	mm (in.)	6,880 × 10,930 (270.87 × 430.31) (81-tool ATC magazine), × 11,632 (457.95) (129-tool ATC magazine), × 12,555 (494.29) (177-tool ATC magazine)
	Weight	kg (lb)	62,100 (136,620) (81-tool ATC magazine), 62,700 (137,940) (129-tool ATC magazine), 63,000 (138,600) (177-tool ATC magazine)