MB-V Series

	ITEM	UNIT	MB-46VA [VAE] MB-46VB [VBE]	MB-56VA MB-56VB	MB-66VA [VAE] MB-66VB [VBE]
TRAVELS	X axis (ram saddle horizontal)	mm (in.)	560 [762] (22.05 [30.00])	1,050 (41.34)	1,500 (59.06)
	Y axis (table front/back)	mm (in.)	460 (18.11)	560 (22.05)	660 (25.98)
	Z axis (spindle vertical)	mm (in.)	460 (18.11)		660 (25.98)
	Table top to spindle nose	mm (in.)	150 ~ 610 (5.91 ~ 24.02)		150 ~ 810 (5.91 ~ 31.89)
TABLE	Max work dimension	mm (in.)	760 x 460 [1,000 x460]	1,300 x 560	1,530 x 660
			29.92 x 18.11 [39.37 x 16.11])	(51.18 x 22.05)	(60.24 x 25.98)
	Floor to table top	mm (in.)	800 (13.50)		850 (33.46)
	Max load capacity	kg (lb)	500 [700] (1,100 [1,540])	900 (1,980)	1,500 (3,300)
SPINDLE	Spindle speed	min^{-1}	8,000 {15,000 / 20,000 /25,000 / 35,000}*1		
			6,000 {12,000}		
	Speed ranges		Infinintely variable		
	Tapered bore		7/24 taper No. 40 { 7/24 taper No. 40 / HSK-A63 /HSK-A63 /HSK-F63}		
			7/24 taper No. 50 {7/24 taper No. 50}		
	Bearing dia	mm (in.)	ø70 {ø70 / ø70 / ø60 / ø60} (ø2.76 {ø2.76 / ø2.76 / ø2.37 / ø2.37})		
			ø90 {ø90} (ø3.55 {ø3.55})		
FEEDRATE	Rapid traverse (X·Y·Z)	m/min (ipm)	X-Y: 40 (1,575) Z: 32 (1,260)		
	Cutting federate (X·Y·Z)	m/min (ipm)	X-Y-Z: 32 (1,260)		
MOTORS	Spindle (10 min/cont)	kW (hp)	VAC 11/7.5 {22/18.5 , 30/22, 15/11, 15} (15/10 {30/25, 40/30, 20/15, 20})		
			VAC 11/7.5 {26/18.5} (15/10 {35/25})		
	Feed axes (X·Y·Z)	kW (hp)	X-Y-Z: 4.0 (5.4)		X-Y-Z: 4.4 (5.9)
ATC	Tool shank		MAS BT40 {HSK}		
			MAS BT50		
	Pull stud		MAS 2 {–}		
			MAS 2 {–}		
	Tool capacity	tool	20 {32 [48]} 48-tool only for 46VAE, 56VA, 66VA		
	Max tool dia (w/ adjacent tool)	mm (in.)	ø90 (3.54)		
			ø100 (3.94)		
	Max tool dia (w/o adjacent tool)	mm (in.)	ø125 (4.92)		
			ø152 (5.98)		
	Max tool length	mm (in.)	300 (11.81)		400 (15.75)
	Max tool mass	kg (lb)	8 (18)		8 (18)
			12 (26)		12 {15} (26 {33})
	Max tool moment	N·m (ft-lvf)	7.8 (5.7) [8 kg x 100 mm (17.6 lb x 3.94 in.)]		
			15.3 [12 kg x 130 mm]		15.3 (19.1) [12 {15} kg x 130 mm]
			(11.3 [26.4 lb x 5.12 in.])		(11.3 {14.1} [26.4 lb x 5.12 in.])
	Tool selection		Memory random		
SIZE	Height	mm (in.)	2,746 (108.11)		3,295 (129.72)
	Floor space	mm (in.)	1,970 {2,020*2} x 2,805	2,510 x 3,100	2,940 x 3,265
			(78 {80} x 110)	(99 x 122)	(116 x 129)
	Weight	kg (lb)	6,000 [6,300] (13,200 [13,800])	7,500 (16,500)	11,000 (24,200)
			6,200 [6,500] (13,600 [14,300])	7,700 (16,900)	11,200 (24,640)

*1. 35,000 min^{-1} not available with MB-66VA

*2. MB-46VB

{ } Optional: with references to respective optional spindle speeds