

# Product Specifications

## WELE - MG Series MG-x50

Specification/ Machine model	Unit	MG-650	MG-850	MG-1050	MG-1450	MG-1650	MG-1850
X axis travel	mm (in)	6000 (236.2)	8000 (315)	10000 (393.7)	14000 (551.1)	16000 (629.9)	18000 (708.6)
Y axis travel	mm (in)	5000 (196.9)					
Z axis travel	mm (in)	1000 (39.4)					
Table dimension (X direction)	mm (in)	6000 (236.2)	8000 (315)	10000 (393.7)	14000 (551.1)	16000 (629.9)	18000 (708.6)
Table dimension (Y direction)	mm (in)	4800 (189)					
Table loading	kg (lb)/cm <sup>2</sup>	2500 (5512)					
Spindle motor power	kW (HP)	22/26 (30/35)					
Spindle speed	rpm	10-6000					
Spindle taper		BT#50 (ISO 50)					
Rapid feedrate - X axis	mm(in)/min	20000 (787.4)					
Rapid feedrate - Y axis	mm(in)/min	12000 (472.4)					
Rapid feedrate - Z axis	mm(in)/min	12000 (472.4)					
Cutting federate	mm(in)/min	1-10000 (0.04-393.7)					
Capacity of tool magazine	pcs	32					
Max. diameter of tool / Adjacent pocket empty	mm (in)	127/215 (5.0/8.5)					
Max. length of tool	mm (in)	400 (15.7)					
Max. weight of tool	kg (lb)	20 (44)					
Positioning accuracy (JIS 6338)	mm (in)	±0.025 (±0.001/Full travel)					
Positioning accuracy (VDI/DGQ 3441)	mm (in)	P <sub>s</sub> ±0.030(0.001181)	P <sub>s</sub> ±0.035(0.001378)	P <sub>s</sub> ±0.045(0.001772)	P <sub>s</sub> ±0.050(0.001969)	P <sub>s</sub> ±0.050(0.001969)	P <sub>s</sub> ±0.050(0.001969)
Repeatability accuracy (JIS 6338)	mm (in)	±0.010 (±0.0004)					
Repeatability accuracy (VDI/DGQ 3441)	mm (in)	P <sub>s</sub> ±0.025(0.000984)	P <sub>s</sub> ±0.028(0.001102)	P <sub>s</sub> ±0.032(0.00126)	P <sub>s</sub> ±0.040(0.001575)	P <sub>s</sub> ±0.040(0.001575)	P <sub>s</sub> ±0.040(0.001575)
Length of the machine	mm (in)	12275 (483.3)	14275 (562)	16275 (640.7)	21800 (858.2)	23500 (925.1)	25500 (1003.9)
Width of the machine	mm (in)	8560 (337)					
Height of the machine	mm (in)	4200 (165.4)					
Weight of the machine	kg (lb)	104000 (229281)	126000 (277782)	148000 (326284)	200000 (440924)	220000 (485016)	240000 (529109)