

# Product Specifications

## WELE - HB Series

### HB1416-110 / HB1416-130

Specification/ Machine model	Unit	HB1416-110	HB1416-130
X axis travel	mm (in)	2000 (78.7)	
Y axis travel	mm (in)	1800(70.8)	
Z axis travel	mm (in)	1300(51.1)	
W axis travel	mm (in)	500(19.6)	700(27.5)
From spindle nose to the centerline of table	mm (in)	200(7.8)~2000(78.7)	0~2000(78.7)
Table dimension (X direction)	mm (in)	1440 (56.7)	
Table dimension (Y direction)	mm (in)	1600 (63)	
The smallest split angle of table	degree	0.001	
Table loading	kg (lb)	8000 (17637)	
Spindle motor power	kW (HP)	22/26 (30/35)	
Spindle speed	rpm	3500	2500
Spindle taper		BT#50 (ISO 50)	
Rapid feedrate - X axis	mm(in)/min	15000 (590.6)	
Rapid feedrate - Y axis	mm(in)/min	12000 (472.4)	
Rapid feedrate - Z axis	mm(in)/min	15000 (590.6)	
Rapid feedrate - W axis	mm(in)/min	5000 (196.9)	
Rapid feedrate - B axis	round/min	0.5	
Cutting federate	mm(in)/min	5000(196.7)	
Capacity of tool magazine	pcs	40	
Max tool diameter / Adjacent pocket empty	mm (in)	125/250 (4.9/9.8)	
Max. tool length	mm (in)	400(15.7)	
Max. tool weight	kg (lb)	25(55)	
Positioning accuracy (JIS 6338)	mm (in)	±0.010 (±0.0009/full travel)	
Positioning accuracy of X, Y axis (VDI/DGQ 3441)	mm (in)	P≤0.016 (0.0006)/ full length	
Positioning accuracy - Z axis (VDI/DGQ 3441)	mm (in)	P≤0.025(0.000984)/full travel	
Repeatability accuracy (JIS 6338)	mm (in)	±0.05(0.001969)	
Repeatability accuracy (VDI/DGQ 3441)	mm (in)	Ps≤0.012 (Ps≤0.0005)	
Repeatability accuracy-Z axis (VDI/DGQ 3441)	mm (in)	Ps≤0.018(0.000709)	
Length of the machine	mm (in)	6325(249)	
Width of the machine	mm (in)	6292(247.7)	
Height of the machine	mm (in)	4128(162.5)	4165(163.9)
Weight of the machine	kg (lb)	31000(68343)	32500(71650)