

# Product Specifications

## WELE - UB Series UB-x21Z

Specification / Machine model	Unit	UB-321Z	UB-421Z	UB-521Z	UB-621Z	UB-721Z
X axis travel	mm (in)	3060 (120.5)	4060 (159.8)	5060 (199.2)	6060 (238.6)	7060 (277.9)
Y axis travel	mm (in)	2150 (84.6)				
Z axis travel (B =0 degree)	mm (in)	1000 (39.4)				
B axis travel	degree	+110				
C axis travel	degree	+360				
Table dimension (X direction)	mm (in)	3000 (118.1)	4000 (157.5)	5000 (196.9)	6000 (236.2)	7000 (275.5)
Table dimension (Y direction)	mm (in)	2000 (78.7)				
Table loading	kg (lb)	12000 (26455)	15000 (33069)	18000 (39683)	20000 (44092)	22000 (48501)
Spindle motor power	kW (HP)	34 (45.5)				
Spindle speed	rpm	10-12000				
Spindle taper		HSK-A100				
Rapid feedrate - X axis	mm(in)/min	2000 (78.7)	18000 (708.6)	12500 (492.1)	9000 (354.3)	6000 (236.2)
Rapid feedrate - Y axis	mm(in)/min	20000 (787.4)				
Rapid feedrate - Z axis	mm(in)/min	10000 (393.7)				
Cutting feedrate	mm(in)/min	1-10000(393.7)			1-9000(354.3)	1-6000(236.2)
Capacity of tool magazine	pcs	32				
Max. diameter of tool / Adjacent pocket empty	mm (in)	127(5)/215(8.4)				
Max. length of tool	mm (in)	400 (15.7)				
Max. weight of tool	kg (lb)	20 (44)				
Positioning accuracy (JIS 6338)	mm (in)	±0.015(0.000591)/ full travel				

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Positioning accuracy (VDI/DGQ 3441)	mm (in)	P=0.019(0.000748)/ full travel	P=0.025(0.000984)/ full travel	P=0.025(0.000984)/ full travel	P=0.030(0.001181)/ full travel	P=0.035(0.001378)/ full travel
Repeatability accuracy (JIS 6338)	mm (in)	±0.003(0.000118)				
Repeatability accuracy (VDI/DGQ 3441)	mm (in)	Ps=0.015(0.000591)	Ps=0.020(0.000787)	Ps=0.020(0.000787)	Ps=0.025(0.000984)	Ps=0.028(0.001102)
Length of the machine	mm (in)	8610 (339)	10590 (416.9)	12910 (508.3)	15000 (590.6)	17500 (688.9)
Width of the machine	mm (in)	5450 (214.6)				
Height of the machine	mm (in)	6550 (257.9)				
Weight of the machine	kg (lb)	33100 (72973)	39100 (86201)	43600 (96122)	48800 (107586)	---