

AKB series Comparison table

Item		Unit	AKB-11	AKB-13	AKB-13(6000min-1)	
Stroke	X axis travel (table longitudinal)	mm (inch)	2000(78.74)	3000(118.11)【4000(157.48)】		
	Y axis travel (spindle vertical)	mm (inch)	1500(59.06)	2000(78.74)【2300(90.55)】		
	Z axis travel (column cross)	mm (inch)	1500(59.06)	1600(62.99)		
	W axis travel (spindle axial)	mm (inch)	500(19.69)	700(27.56)	-	
	Distance from table top to spindle center	mm (inch)	0~1500(0~59.06)	0~2000(0~78.74)【0~2300(0~90.55)】		
	Distance from table center to spindle nose	mm (inch)	600~2100(23.62~82.68)	800~2400(31.50~94.49)	650~2250(25.59~88.58)	
Table	Table work space	mm (inch)	1400x1600(55.12x62.99)	1800x2000(70.87x78.74)		
	Table maximum loading capacity	kg (lbs)	6500(14300)	12000(26400)【15000(33000)】		
	Table top profile	mm (inch)	22(0.87) 7T slots			
	Table auto.indexing	°	0.001 (every 90° index. by locator pin)			
Spindle Head	Boring spindle diameter	mm (inch)	110(4.33)	130(5.12)	130(5.12) (Spindle diameter)	
	Spindle speed (for every 1min <sup>-1</sup> )	min <sup>-1</sup>	5~3000	9~3000	10~6000	
	Spindle speed change range	step	2			
	Spindle taper		BBT50 (BIG-PLUS Dual contact spindle system)*			
Feed	Rapid traverse	(X·Y·Z)	12(472.44)	10(393.70)		
		(W)	6(236.22)		-	
	Feedrate	mm (inch)/min	1~6000(0.04~236.22)	1~4000(0.04~157.48)		
	Table revolution	min <sup>-1</sup>	2.0	1.4		
Automatic Tool Changer (ATC)	Tool shank		MAS BT50 (BBT50 BIG-PLUS Dual contact spindle system)*			
	Pull stud		MAS P50T-1(45°)			
	Tool storage capacity	pc	40			
	Max. tool diameter [vacant adjacent pots]	mm (inch)	125(4.92)【240(9.45)】			
	Max. tool length	mm (inch)	400(15.75)			
	Max. tool weight	kg (lbs)	25(55)			
	Tool selection		At random			
Motors	Spindle motor	kW (HP)	AC26(35)(30min) /22(30)(cont.)	AC30(40)(30min) /22(30)(cont.)	AC37(50)(S3 25%) /22(30)(cont.)	
	Feed motor	kW (HP)	X·Z:6.0(8.0) /Y·W·B:3.0(4.0)		X·Z:6.0(8.0) /Y·B:3.0(4.0)	
	Hydraulic motor	kW (HP)	3.7(4.9)			
Voltage	Power capacity (Not incl. opt)	kVA	66	67	64	
	Air pressure source pressure	MPa	0.5			
	Air pressure source flow (Not incl. opt)	NL/min	400(atm)			
Dimensions	Machine height	mm (inch)	4120(162.20)	4800(188.98)【5150(202.76)】		
	Floor space (Not incl. opt)	mm (inch)	6400x6620(251.97x260.63)	7500x7125(295.28x280.51)【8040x7125(316.53x280.51)】		
	Machine weight	kg (lbs)	25000(55000)	35000(77000)	33000(72600)	

\*BIG-PLUS is a trademark registered by BIG DAISHOWA SEIKI CO LTD.

【 】: Optional specification