

BL-2018S

CNC Horizontal Boring Machining center





BRIDGE BRINGS PERFORMANCE

Machine Specifications

MODEL	UNIT	BL2018S / BL3018S / BL4018S	BL2018FM / BL30178FM / BL4018FM
Table	mm(in)	1400 x 1600 (55.1 x 63)	1400 x 1600 (55.1 x 63)
Full rotary table	Degree	Built-in 0.001	Built-in 0.001
Table indexable		90 degree x 4 positions	90 degree x 4 positions
Maximum table load	kgs (lbs)	6000 (13200)	6000 (13200)
Axial travel			
X axis	mm(in)	2000(78.7) / 3000 (118.1) / 4000 (157.4)	2000(78.7) / 3000 (118.1) / 4000 (157.4)
Y axis	mm(in)	1800 (70.9)	1800 (70.9)
Z axis	mm(in)	1000 (39.4)	1000 (39.4)
W axis	mm(in)	600 (23.6)	600 (23.6)
Rapid traverse			
X axis	mm(in) / min	10000 (394)	10000 (394)
Y axis	mm(in) / min	10000 (394)	10000 (394)
Z axis	mm(in) / min	10000 (394)	10000 (394)
W axis	mm(in) / min	5000(197)	5000(197)
Spindle			
Boring spindle size	mm(in) / min	Quill with \varnothing 120(4.7)	Ram 500 (19.7) x 450 (17.7) section
Spindle taper		BT#50	BT#50
Spindle range / speed	rpm	2/ 2400	2/ 2400 (8000 OPT)
Spindle bearing diameter	mm(in)	160 (6.3)	90(3.5)
Maximum torque	Nm	1300	1300 (165 (OPT)
Spindle motor	kw (HP)	22 / 26 (30/ 35)	22 / 26 (30/ 35)
ATC			
Number of tools		40 (50 OPT)	40 (50 OPT)
Tool diameter (max.) / Adjacent	mm(in)	127/ 250 (5 / 9.8)	127/ 250 (5 / 9.8)
Tool length (max.)	mm(in)	400	400
Tool weight (max.)	kgs (lbs)	15 (33)	15 (33)
Tool holder		BT#50 (ISO 50) / DIN69871A (OPT)	BT#50 (ISO 50) / DIN69871A (OPT)
Pull stud		MAS403P50T-1(45 °)	MAS403P50T-1(45 °)
Others			
Position accuracy X, Y, Z, W axes	mm(in)	+ 0.01(0.0004) / full travel (JIS STD)	+ 0.01(0.0004) / full travel (JIS STD)
Repeatability X, Y, Z, W axes	mm(in)	+ 0.01(0.0004) / full travel (JIS STD)	+ 0.01(0.0004) / full travel (JIS STD)
Power requirement		50 KVA, 220 + 10% Vac, 3 \varnothing , 50/ 60HZ	50 KVA, 220 + 10% Vac, 3 \varnothing , 50/ 60HZ
Air requirement	kg / cm ²	5 (min.)	5 (min.)
Lubrication oil tank	liter	6	6
Coolant tank	liter	200	200
Machine height (Appr.)	mm (in)	4650	4650
Machine weight (Appr.)	kgs (lbs)	30000/ 36500 / 40500 (66000/ 8030/ 89100)	32000/ 38500 / 42500 (70400 / 84700 / 93500)
Options:			
1. Rotary table indexable continuously.		3. 8000 rpm built-in spindle on FM series.	
2. 1800 x 1600 table with 1300mm Z axis.		4. 50 tool capacity of tool magazine.	