

AWEA[®]
BRIDGE BRINGS PERFORMANCE

龍門世家

ISO 9001

ISO 14001



BL Series

CNC HORIZONTAL BORING

MACHINING CENTER

● PRECISE ● RAPID ● MULTI-FUNCTION



AWEA MECHANTRONIC CO., LTD

THE AWEA'S HORIZONTAL BORING MACHINING CENTER - AHEAD OF THE NEW TECHNOLOGY

- OPTIMIZED ACCURACY MOVEMENTS AND RELIABLE ACCURACY

A closed-loop control system for the X, Y and Z axes with standard 1 μ m linear scales provided.

-Positioning accuracy for X, Y & Z axes:

± 0.010 mm (± 0.0004 in) / full stroke

-Indexing accuracy for B axis: ± 5 sec.

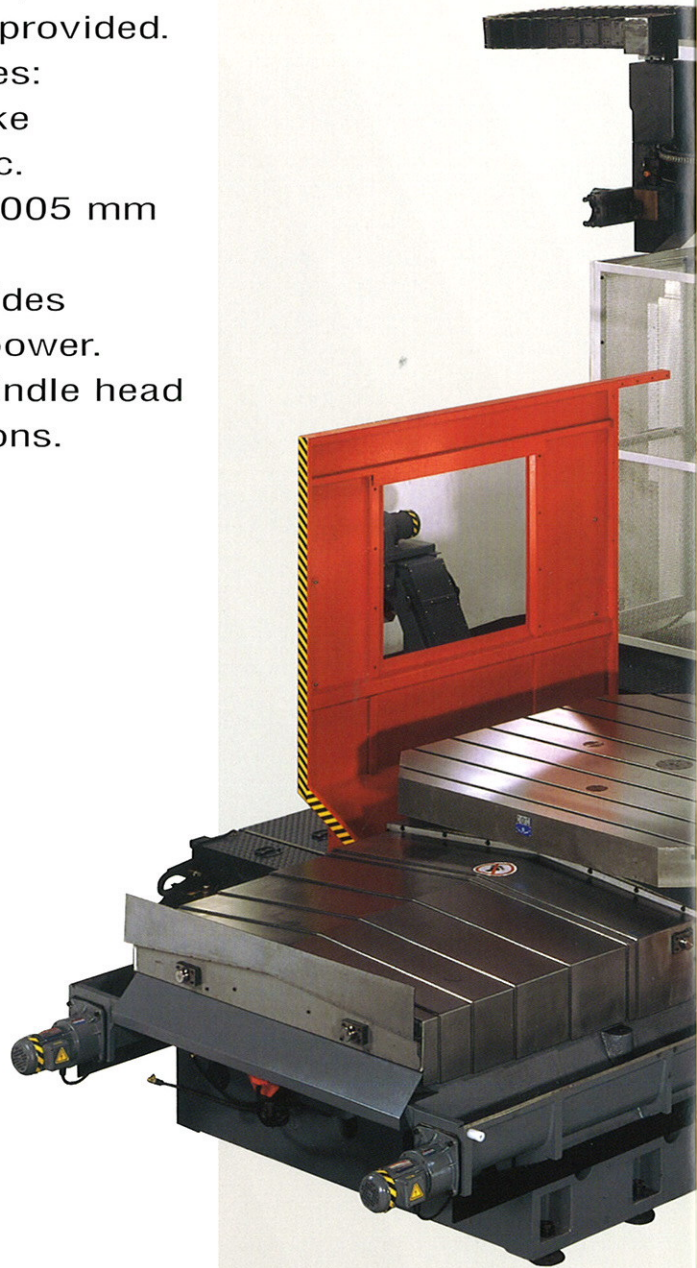
-Repeatability for X, Y & Z axes: ± 0.005 mm

For B axis: ± 5 sec.

- Automatic Spindle quill clamping provides greatly increases rigidity, torque and power.
- Minimized thermal displacement of spindle head for stabilized powerful cutting operations.



ATC Magazine view





Machine side view

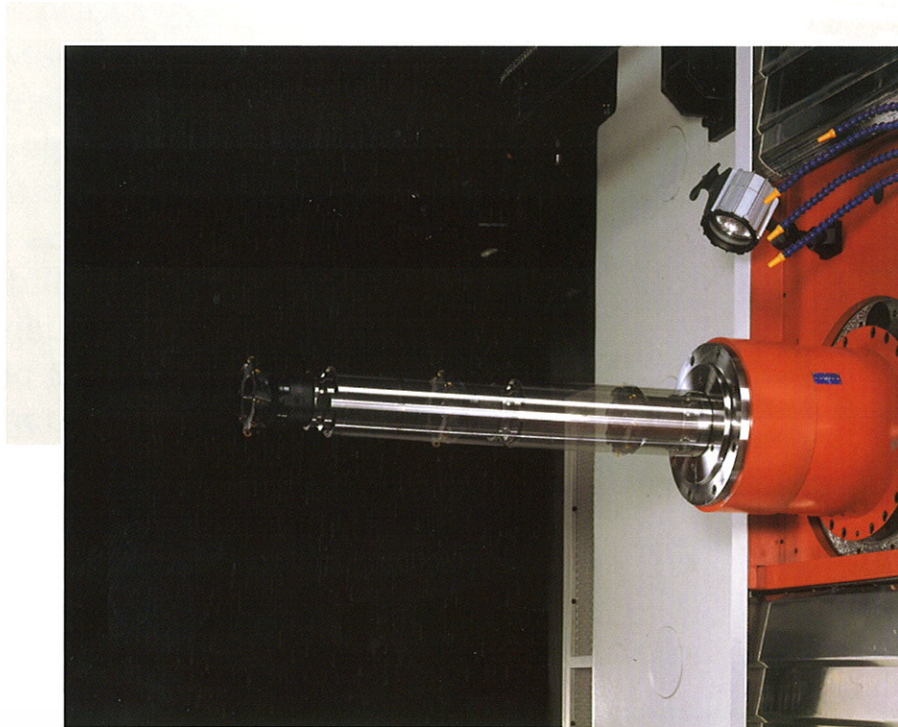


Rear view

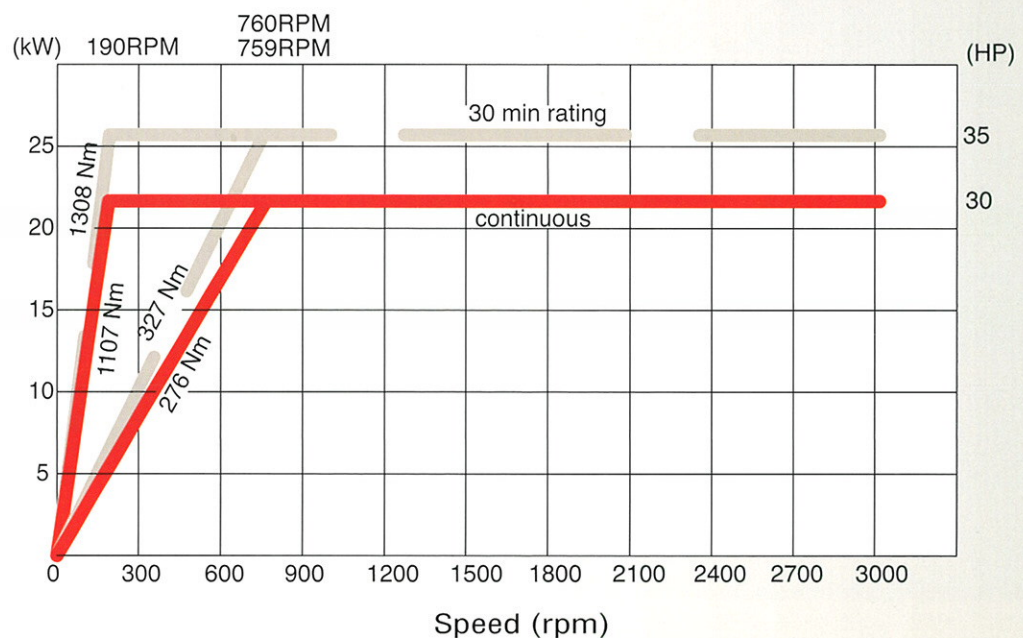
Picture of BL2018S



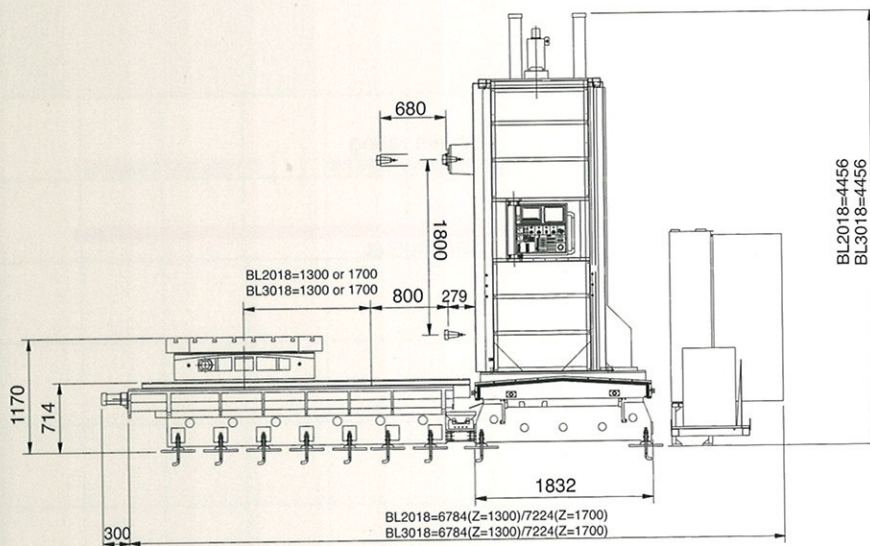
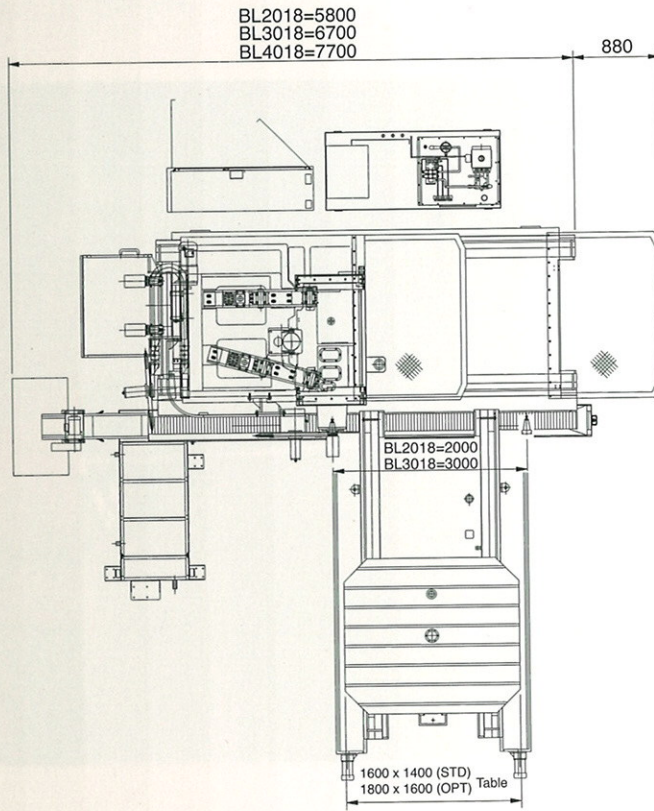
- AWEA NEW DEVELOPED QUILL TYPE OR RAM TYPE SPINDLE FOR HIGH SPEED, HIGH ACCURACY
AWEA column & table combined horizontal boring & milling centers designed and built based on its advanced engineering technology and years of experience.



2400 rpm geared spindle



External Dimension



Machine Specifications

Specification/Model	Unit	BL2018S/BL3018S/BL4018S	BL2018FM/BL3018FM/BL4018FM
Table	mm(in)	1400X1600 (55.1X63)	1400X1600 (55.1X63)
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)	Quill with ϕ 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 (ISO50)/DIN69871A (OPT)	BT#50 (ISO50)/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)	± 0.003 (0.0001) (JIS STD)	± 0.003 (0.0001) (JIS STD)
Power requirement		50KVA,220 \pm 10%Vac,3 ϕ ,50/60Hz	50KVA,220 \pm 10%Vac,3 ϕ ,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(66000/80300/89100)	32000/38500/42500(70400/84700/93500)

· Special order is also available on request.

Options:

- Rotary table indexable continuously.
- 1800 x 1600 table with 1300 mm Z axis.
- 8000 rpm built-in spindle on FM series.
- 50 tool capacity of tool magazine



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