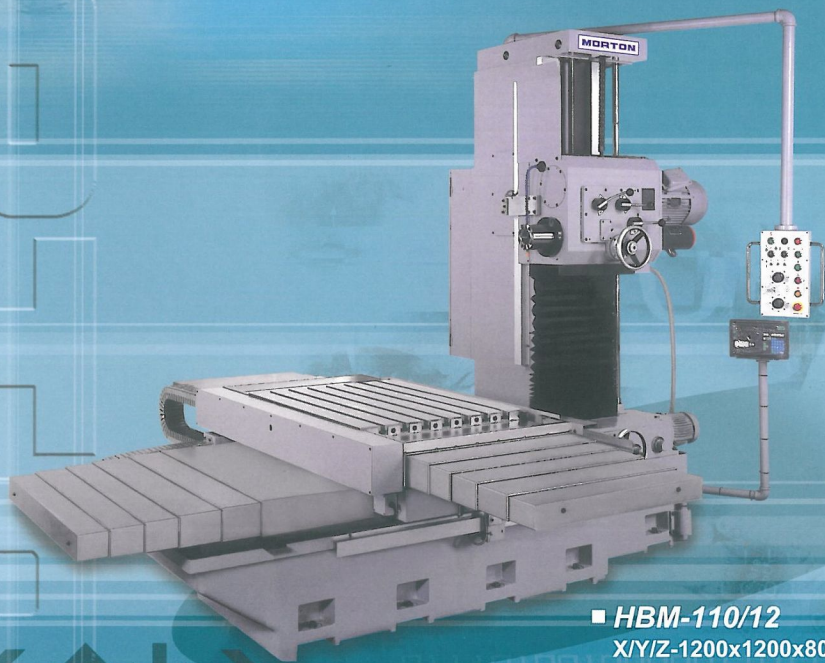




HORIZONTAL BORING & MILL MACHINE



- **HBM-110/12**
X/Y/Z-1200x1200x800
- **HBM-110/14**
X/Y/Z-1400x1200x1100
- **HBM-110/18**
X/Y/Z-1800x1400x1200

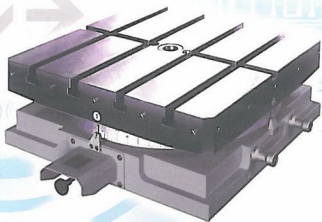
HORIZONTAL BORING & MILL MACHINE



Feature

Box type column, bed and saddle features outstanding stability in heavy duty cutting. All slide ways are hardened, precision ground and scraped for lasting precision.

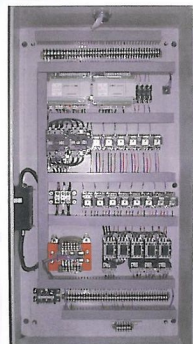
- The X and Z-axes are equipped with ballscrew ensure the table movement smoothly.
- Headstock, table and saddle equipped with hydraulic clamber to ensure machining accuracy.
- Spindle headstock balance is accurately taken and a counter weight permits the head to travel smoothly and to retain its accuracy stability.
- All casting are made of high quality cast iron and are stress relieved.



Index Table



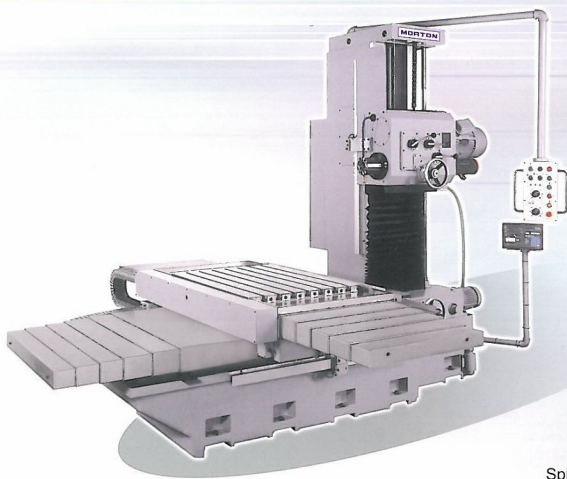
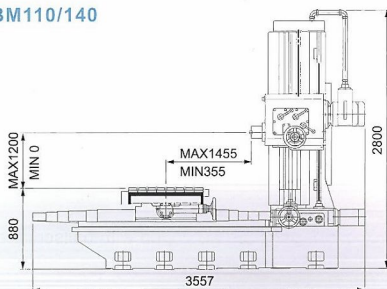
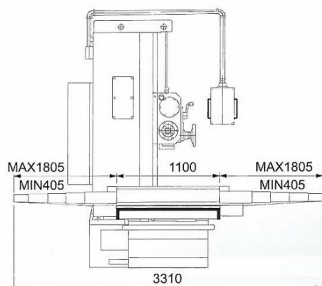
Digital Read Out



Electrical Cabinet

Dimensions

HBM110/140



Power on/off button

Coolant on/off switch

3 Axis hydraulic clamber switch

Joystick for Z-axis feed and rapid

Joystick for X&Y-axis feed and rapid



Spindle cw/ccw switch

Feeding mode switch

Threading function switch

Spindle start button

Spindle stop button

Spindle inching button

Emergency push button

MORTON HORIZONTAL BORING AND MILLING MACHINE

Technical Data Boring Spindle	HBM110/12	HBM110/14	HBM-110/18
Spindle Front Beaving Diameter	128.9mm		
Drive power	7.5kw-4pole		
Internal Taper-ISO R297	ISO No.50		
Spindle speed	12 steps		
Spindle speeds	60Hz-45-1500rpm / 50Hz-32-1250rpm		
Traverses			
Traverses cross-X	1200mm(46.25")	1400mm(55.12")	1800mm(70.87")
Headstock vertical-Y	1200mm(46.25")	1200mm(46.25")	1400mm(55.12")
Table Longitudinal-Z	800mm(31.5")	1100mm(43.3")	1200mm(46.25")
Sub-Table rotation-B	5 degree x 72 divides		
Distance			
Spindle cener to table surfac	0-1200mm	0-1200mm	0-1400mm
Spindle nose to table center	355-1155mm	355-1455mm	355-1555mm
Table Unit			
Table Size	1100x800mm(43.3x31.5")		1500x800mm(59x31.5")
Table Loading Max.	1200kgs	1400kgs	2000kgs
T-Slot	20mmxNo.7x100mm(3/4"xNo.7x4")		
Sub Table			
size	600x600mm(23.62x23.62")		
Loading Max	2000kg(4400Lbs)		
Centering diameter	40mm(1.575")		
Rapid feed			
60Hz.-X/Y/Z	2880mm/min(113.3"/min)		
Auto Feed			
60Hz.-X/Y/Z	28-875mm/min(1.1"-34.45"/min)		
Motors			
Feed motor	A.C 1.5Kw-4Pole(2HP-4Pole)		
lube-pump for headstock	A.C 0.2Kw-4Pole(1/4HP-4Pole)		
lube-pump for slideways	A.C 0.3Kw-4Pole(1/2HP-4Pole)		
Coolant pump	A.C 0.12Kw-2Pole(1/8HP-2Pole)		
Hydraulic pump for Axes clamping	A.C 0.75Kw-4Pole(1HP-4Pole)		
Floor space	3150x3400mm(124x134")	3350x3700mm(132x146")	4000x4300mm(157.5x169.3")
Net Weight	7800kgs(17191 Lbs)	8400kgs(18513kgs)	10500kgs(23142 Lbs)

※Specifications are subject to change without notice.

Standard accessories

- | | |
|---------------------------------|---|
| 1. Automatic lubrication system | 6. X & Z-axis with ballscrew |
| 2. Coolant system | 7. Tapping function |
| 3. Index table 600x600mm, 72D | 8. X, Y & Z-axis with hydraulic clamber |
| 4. Air power draw-bar | 9. Tool box with adjustment tools |
| 5. With Digital Read Out | 10. Leveling blocks and blots |



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