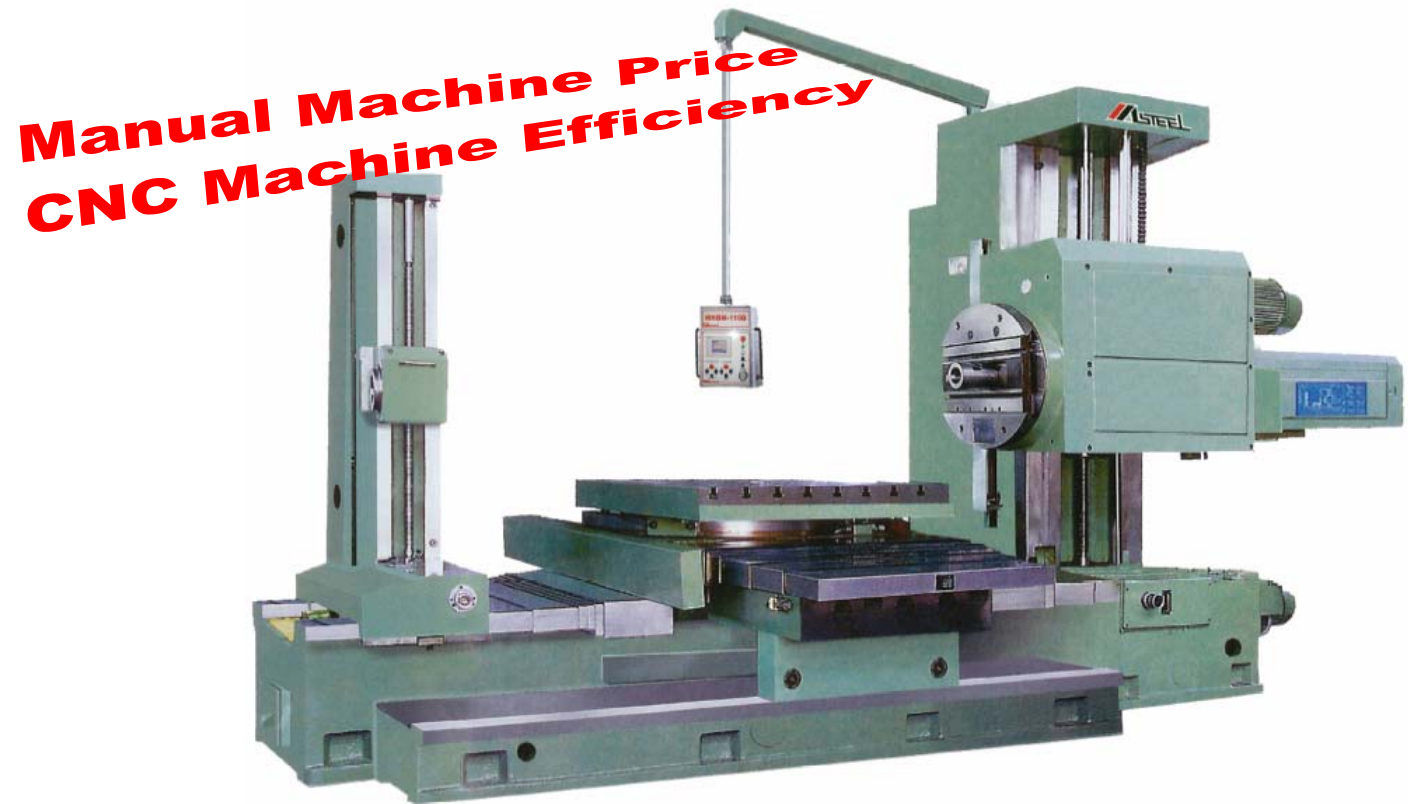


MASTEEL HORIZONTAL BORING MILL

MHBM-110A/B MHBM-130A/B



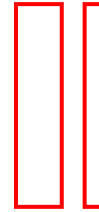
Standard Features and Equipment

- ▣ Point to point position control on X, Y, Z, W axis at accuracy of +/- 0.001"
- ▣ Automatic Hole-Cycle Control Features
 - ◇ Automatically calculate hole position or input hole position directly
 - ◇ "GO TO" position control for rapid approach to hole position
 - ◇ Drilling cycle with programmable feed speed and rapid re-tract speed
 - ◇ Peck drill cycle for deep hole drilling
 - ◇ Floating tapping cycle with feed rate calculated from spindle speed and TPI
- ▣ Portable hand wheel unit with X Y Z W B – 5 axis selection and spindle jogging for easy-setup of work piece and boring center
- ▣ 4 axes DRO – X, Y, Z and W at Resolution of 0.0005"
- ▣ Position Readout provides full screen display on X. Y. Z. W and B axis for better visibility
- ▣ Programmable feed rate in inch per minute and calculated feed rate at Inch per Revolution for cutting reference
- ▣ Three feed functions: Rapid travel /cutting feed/Hand wheel Micro adjustment.
- ▣ Programmable spindle /facing plate speed and automatically shift the high/low gear
- ▣ Central operating console eliminates most of the operating handle on the headstock
- ▣ Automatically hydraulic clamping/unclamping coordinate with the feed select on X Y Z W B and U axis clutch
- ▣ Automatic lubrication
- ▣ Power draw bar
- ▣ Optional point to point position control and DRO on B axis

Optional tailstock



Portable hand wheel unit with X Y Z W B – 5 axis select and spindle jogging for easy-setup of work piece and boring center



Simply touch ONE button to select Spindle or facing plate. Programmable speed with automatical high/Low gear selection



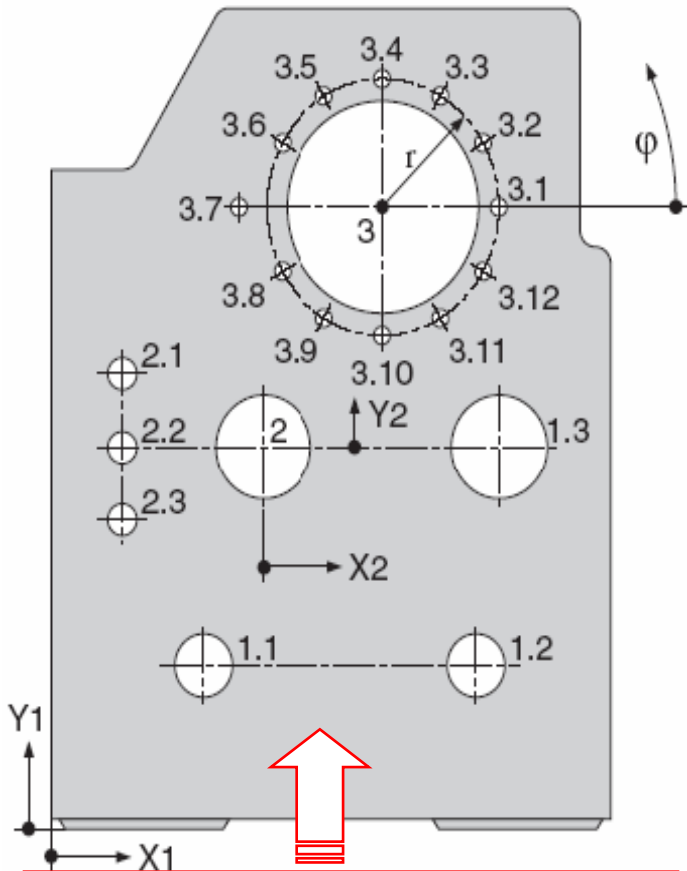
SPINDLE	750	H	▲	FEED IPM	22.5	▲
FACING	120	N	▼	FEED IPR	0.030	▼
X-X	4.7500	->	1.2500	MICRO		
Y-Y	3.7520	->	0.0000	POS1.		
Z-Z	2.7520	->	-1.0000			
W-W	5.7520	->	-1.3750	HOLES		
B-B	275.37°	->	0.00°	SETUP		
U-U	-	Zero	+	GO	SP ALRM	

Programmable feed at Inch per Minute.
Calculate axis feed at Inch per Revolution for cutting reference

Position readout provides full screen display on X. Y. Z. W and B axis for better visibility

AUTOMATICAL HOLE-CYCLES for Drilling, Peck Drilling, Boring or Tapping

Simply touch ONE button to select axis and release clamping. Press button or set distance "to go"



AUTOMATICAL HOLE-CYCLES:

Simply Touch **ONE** button to complete

Drilling, Peck Drilling, Boring or Tapping cycles

- ≡ Drilling Cycle: fast approach, drilling feed to setting depth and rapid re-tract
- ≡ Peck Drilling Cycle for deep hole drilling
- ≡ Boring Cycle: Rough boring in and finish boring out with programmable feed speed
- ≡ Floating Tapping Cycle with programmable thread per inch



≡ **HOLECIRCLES:**
Automatic calculates hole position and load into X and Y position settings for hole circle. Any off-set hole position can be modified independently ie: hole # 3.7

≡ **RANDOM HOLES:**
Input X and Y position directly.

≡ Simply press "GO" to reach X, Y setting position at accuracy of ± 0.001 "

SPINDLE	H	FEED IPM	14.00	Drilling	2.5000
350	N	FEED IPR	0.040	Tapping	2.2500
	L				
	X	0.0000	Y	0.0000	▲
9	GO	2.5000	GO	4.3301	MAIN
10	GO	0.0000	GO	5.0000	BACK
11	GO	-2.5000	GO	4.3301	
12	GO	-4.3301	GO	2.5000	▼
	-	X	+	W	3.0000

Specifications

Model	MHBM110A	MHBM110B	MHBM130A	MHBM130B
Spindle Taper	CAT # 50		CAT # 50	
Boring Spindle Diameter	4.41"		5.12"	
Travel of Boring Spindle	24"		35.43"	
Travel of Facing Slide	7.22"		10"	
Diameter of facing plate	23 ½"		30"	
Index Rotary Table	43.3" x 37.8"	49 ¼" x 43.3"	63" x 51.12"	70.87" x 63"
Index Rotary Table Load	5500Lbs	6600 Lbs	17,600Lbs	22,000 Lbs
Longitudinal travel	40" w/ Tailstock	56"	59" w/ Tailstock	78.74"
Cross Travel	50"	64"	63"	78.74"
Spindle to table	0 – 36"	0 – 48"	0 – 55.12"	0 – 70.87"
programmable Spindle speed	8 – 1000RPM		8 – 875 RPM	
programmable X Y Z W Axis Feed Rate	0.040" – 80" /Min.		0.040" – 80" /Min.	
Facing place speed	4 – 200 RPM		2.5 – 125 RPM	
Facing plate U axis feed Rate	0.012" – 60" /Min.		0.040" – 61" /Min.	
X Y Z W Axis Rapid travel	80" / Min		80" / Min	
Rotary Table B Axis Travel Speed	1°– 360° / Min		1°– 360° / Min	
Digital Readout Resolution	0.0005"		0.0005"	
Main Motor	20 HP		25 HP	
Dimensions: L x W x H	197" x 115"x108"	204"x134"x123"	280" x 146"x137"	286"x186"x152"
Weight	32800 Lbs	39600 Lbs	52800 Lbs	64600 Lbs

➤ Specifications subject to change without notice ◀