

Model MB-OX HIGH LOCK BASE

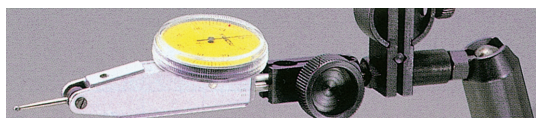
Hydraulic & fine movement adjuster

[Application]

While these bases are used as measuring tool holders like magnetic bases, they can also be used to hold sensors in place.

[Features]

- A hydraulic system that tightens joints in three places by one-step operation.
- The arm can be adjusted freely, which facilitates locating the mounted measuring instrument.
- Equipped with a fine movement adjuster.
- The base is made square to enhance the stability when a dial gage is mounted.



Optional upper components available
(See page 64)

The dial gage is not included.

[mm (in)]

Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm			Arm Mounting Tapped Hole	Indicator Clamp		Mass	Accessory
			Width	Length	Height	L ₁	L ₂	L ₃		Stem Hole	Dovetail		
MB-OX	Hydraulic type	1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	140 (5.51)	110 (4.33)	81 (3.18)	M8 (0.31) × 1.25 (0.04)	φ8 (0.31) φ6 (0.23)	6.5 (0.25)	2.0kg / 4.4 lb	※ Replenish oil

※ The holding power is based on a test piece of SS400, 10 mm thick, ground surface. ※ Recommended replenish oil: Idemitsu Daphne Super Multi Oil or equivalent
※ The fixing force may change when pressure changes due to ambient temperature.



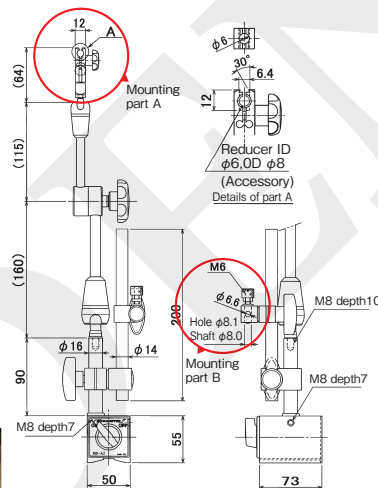
MB-OX
Holding power
1000N

ELECTROMAGNETIC CHUCKS
CHUCK CONTROLLERS
PERMANENT ELECTROMAGNETIC CHUCKS
PERMANENT ELECTROMAGNETIC CHUCKS

Model MB-A2 TWO ARMS TYPE MAGNETIC BASE



MB-A2
Holding power
1000N



[Application]

These magnetic bases are widely used as measuring tool holders when measuring dimensions of machined workpieces (detecting errors and deviation) using a dial indicator on machine tools or iron surface plate for measurement by comparison. They can also be used to hold the sensors in place.

[Features]

- Since one magnetic base is equipped with two arms, no extra space is required for 2-point simultaneous measurement in limited space on lathes, etc.
- The arms have a different locking mechanism to allow them to be used differently depending on measurement conditions.
- The layout of arms can be changed by utilization of the mounting hole provided on the side face of the base.

[mm (in)]

Model	Holding Power	Magnetic Holder Base			Indicator Clamp A		Indicator Clamp B		Mass
		Width	Length	Height	Stem Hole	Dovetail	Stem Hole	Indicator Clamp Screw	
MB-A2	1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	φ6 (0.23) ※ φ8 (0.31)	6.5 (0.25)	φ6 (0.23) φ8 (0.31)	M6 (0.23)	2.7kg / 5.9 lb

※ When reducer is used.

BLOCKS FOR MC
VACUUM CHUCKS
PROMELTA* SYSTEM
SINE BAR CHUCKS
BLOCKS HOLDERS, MINI CHUCKS

Model GB-MX GRANITE BASE

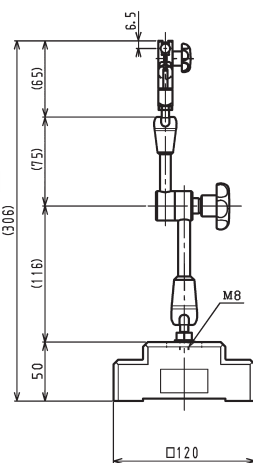
Mechanical lock & fine movement adjuster

Measurement on precision granite surface plate! Highly reliable flexible arm!

Free posture by dial adjustment



GB-MX20F-A



[Application]

Used for precise measurement on a precision granite surface plate.

[Features]

- Granite, unaffected by aged deterioration and rust, is used for the base. There is no change in accuracy and it is easy to maintain.
- The flatness of the base bottom has been precisely finished to better than 2 μm. They can slide smoothly on the granite surface plate to enable measurement by moving the gage.
- The base is made square to enhance the stability when a dial gage is mounted.
- The mechanical lock type that has proven reliability is employed for the arm (MB-MX-F). Any posture can be set by one-step tightening.
- These bases come with a dedicated storage box.

[mm (in)]

Model	Base Size	Mass
GB-MX20F-A	□120 (4.72) × 50 (1.96)	Approx. 2.7kg / 5.95 lb

HOLDING TOOLS
MEASURING TOOL HOLDERS
MAGNETIC HOLDERS
MAGNETIC TOOLS

MEASURING TOOL HOLDERS

Model MB-MX HIGH LOCK BASE

Mechanical lock & fine movement adjuster

Tightening torque + clamp force + fine adjustment function all improved!



[Application]

While these bases are used as measuring tool holders like magnetic bases, they can also be used to hold sensors in place.

[Features]

- Any posture can be set by tightening a knob to lock every part.
- The clamp system is adjustable steplessly. Turning lightly achieves it.

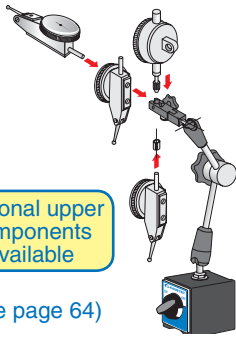
Quick lock mechanism

- A wide variety of models, small to large, are available to suit your applications.
- The dial gage mounting part can be adjusted finely.
- The arm can be adjusted freely in angle and direction and provides stable, shake-free positioning.

Free posture by dial adjustment

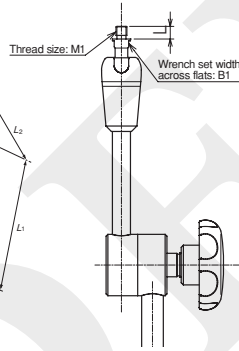
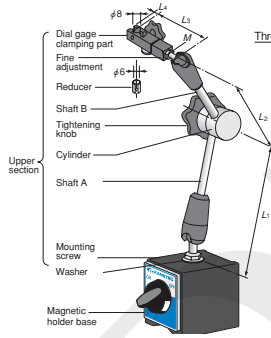


Consistent and highly accurate measurement



Optional upper components available

(See page 64)



Holding power
600N

Holding power
800N

Holding power
1000N

Holding power
1000N

MB-MX13F

MB-MX20F

MB-MX28F

MB-MX40F

Model	M1	B1
MB-MX13F	M6 (Coarse) × L7	6
MB-MX20F		7
MB-MX28F		8
MB-MX40F	M8 (Coarse) × L8	

<Dial gage mounting>

<Names/dimensions>

<Details of part M and dimensions>

Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm					Arm Mounting Tapped Hole	Indicator Clamp		Mass	Feature	
			Width	Length	Height	L ₁	L ₂	L ₃	L ₄	M		Stem Hole	Dovetail			
MB-MX13F	Mechanical lock	600N (60kgf)	40 (1.57)	40 (1.57)	40 (1.57)	75 (2.95)	50 (1.96)	64 (2.51)	6.5 (0.25)	M6 (0.23) × 7 (0.28)	M6 (0.23) × 1 (0.03)	φ 8 (0.31) φ 6 (0.23) (When reducer is used)	6.5 (0.25)	0.7kg/1.7 lb	Smallest	
MB-MX20F		800N (80kgf)	58.5 (2.30)	55 (2.16)	116 (4.56)	75 (2.95)	65 (2.55)									
MB-MX28F		1000N (100kgf)	50 (1.96)	73 (2.87)	160 (6.29)	115 (4.52)	64 (2.51)									
MB-MX40F			220 (8.66)	175 (6.88)	66 (2.59)	M8 (0.31) × 8 (0.31)	2.0kg/4.4 lb	Standard								
															2.1kg/4.8 lb	Long arm

*The holding power is based on a test piece of SS400, 10 mm thick, ground surface.

Model MB-X HIGH LOCK MINI BASE

Mechanical lock & fine movement adjuster

Small and simple, suitable for use in limited space.



[Application]

While these bases are used as measuring tool holders like magnetic bases, they can also be used to hold sensors in place.

[Features]

- A mechanical lock system that tightens joints in three places by one-step operation.
- The arm can be adjusted freely, which facilitates locating the mounted measuring instrument.
- Models MB-CX-V/PSX-V are equipped with a fine movement adjuster.

Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm				Arm Mounting Tapped Hole	Indicator Clamp		Mass	Feature
			Width	Length	Height	L ₀	L ₁	L ₂	L ₃		Stem Hole	Dovetail		
MB-CX	Mechanical Type	160N (16kgf)	28 (1.10)	28 (1.10)	28 (1.10)	12 (0.47)	46 (1.81)	46 (1.81)	39 (1.53)	M5 (0.19) × 0.8 (0.03)	φ 6 (0.23) × 2	6.5 (0.25)	0.38kg/0.83 lb	Small, V attractive face
MB-CX-V		0.5 kg/1.10 lb	Small, V attractive face, fine movement adjuster											
MB-PSX		300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	14 (0.55)	39 (1.53)	0.38kg/0.83 lb	Small, magnet switchover					
MB-PSX-V		57 (2.24)	57 (2.24)	0.5 kg/1.10 lb	Small, magnet switchover, fine movement adjuster									

*The holding power is based on a test piece of SS400, 10 mm thick, ground surface.