MEASURING TOOL HOLDERS

Model MB
MAGNETIC BASE

**Model MB**

### TOOLS
- **HOLDERS**
- **TOOL HOLDERS**
- **MINI CHUCKS**
- **CHUCKS**
- **SYSTEM**

### HOLDING BLOCKS, HOLDERS, MEASURING HOLE BLOCKS
- **HOLDING BLOCKS, HOLDERS, MEASURING HOLE BLOCKS**

### FEATURES
- A variety of models, small to large, and with diversified additional functions, available to suit conditions of measuring places.
- A powerful magnet and strong clamping force ensure consistent, highly accurate measurement.
- Model MB-Z magnetic bases are equipped with upper components having the highest rigidity in our Magnetic Base Series, which minimizes errors in repeated measurement and precision measurement.

Displacement at a force of 0.5 kg...

#### An example of usage

MB-Z2S allows the mounting of the test indicator φ6 mm stem only.

#### 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.

#### Features
- A variety of models, small to large, and with diversified additional functions, available to suit conditions of measuring places.
- A powerful magnet and strong clamping force ensure consistent, highly accurate measurement.
- Model MB-Z magnetic bases are equipped with upper components having the highest rigidity in our Magnetic Base Series, which minimizes errors in repeated measurement and precision measurement.

#### Model MB

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Magnetic Base</th>
<th>Main Pole</th>
<th>Sub Pole</th>
<th>Main Pole Mounting Thread</th>
<th>Clamp Hole Dia.</th>
<th>Mountable Stem Dia.</th>
<th>Indicator Clamp Screw</th>
<th>Mass</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-B</td>
<td>800N (8kgf)</td>
<td>58.5 (2.30)</td>
<td>12 (0.47)</td>
<td>176 (6.92)</td>
<td>M B (0.31) X 1.25 (0.04)</td>
<td>MB (0.31) X 1.25 (0.04)</td>
<td>6.6 (0.26) / 8.1 (0.31)</td>
<td>M6 (0.23)</td>
<td>1.5kg/ 3.9 lb</td>
<td>General, standard type. General type with fine move adjustment.</td>
</tr>
<tr>
<td>MB-BV</td>
<td>800N (8kgf)</td>
<td>73 (2.87)</td>
<td>16 (0.62)</td>
<td>225 (8.85)</td>
<td>M B (0.31) X 1.25 (0.04)</td>
<td>MB (0.31) X 1.25 (0.04)</td>
<td>6.6 (0.26) / 8.1 (0.31)</td>
<td>M6 (0.23)</td>
<td>1.5kg/ 3.9 lb</td>
<td>Main pole 360° turning, can be locked at 75° max.</td>
</tr>
<tr>
<td>MB-F2</td>
<td>1000N (10kgf)</td>
<td>117 (4.61)</td>
<td>14 (0.54)</td>
<td>178 (7.02)</td>
<td>M B (0.31) X 1.25 (0.04)</td>
<td>MB (0.31) X 1.25 (0.04)</td>
<td>6.6 (0.26) / 8.1 (0.31)</td>
<td>M6 (0.23)</td>
<td>2.4kg/ 5.5 lb</td>
<td>Larger size with fine move adjustment.</td>
</tr>
<tr>
<td>MB-Z15</td>
<td>1230N (12kgf)</td>
<td>117 (4.61)</td>
<td>14 (0.54)</td>
<td>178 (7.02)</td>
<td>M B (0.31) X 1.25 (0.04)</td>
<td>MB (0.31) X 1.25 (0.04)</td>
<td>6.6 (0.26) / 8.1 (0.31)</td>
<td>M6 (0.23)</td>
<td>2.5kg/ 5.5 lb</td>
<td>High precision type with fine move adjustment.</td>
</tr>
<tr>
<td>MB-FX</td>
<td>1000N (10kgf)</td>
<td>73 (2.87)</td>
<td>16 (0.62)</td>
<td>315 (12.4)</td>
<td>M B (0.31) X 1.25 (0.04)</td>
<td>MB (0.31) X 1.25 (0.04)</td>
<td>6.6 (0.26) / 8.1 (0.31)</td>
<td>M6 (0.23)</td>
<td>3.6kg/ 8.1 lb</td>
<td>Main pole longest, base largest and holding power greatest.</td>
</tr>
<tr>
<td>MB-Z20</td>
<td>1230N (12kgf)</td>
<td>73 (2.87)</td>
<td>16 (0.62)</td>
<td>315 (12.4)</td>
<td>M B (0.31) X 1.25 (0.04)</td>
<td>MB (0.31) X 1.25 (0.04)</td>
<td>6.6 (0.26) / 8.1 (0.31)</td>
<td>M6 (0.23)</td>
<td>3.9kg/ 8.6 lb</td>
<td>Flexible type, settable freely.</td>
</tr>
</tbody>
</table>

* The upper fixture, Model DG-6 (mounting hole of φ4.5/6.6 mm), for mounting a dial gage is optionally available. The holding power is based on a test piece of SS400, 10 mm thick, ground surface.
* The magnet part of MB-Z is designed for mounting on a flat surface such as a surface plate, but not on a curved surface.
Model DG

Optional Clamp for Magnetic Base/High Lock Base

Measurement variation expanded.

### Upper components Model DG-6
(Components for mounting dial gage)

- **Model**
  - DG-6-B (Mounting diameter φ 10)
  - DG-6-K (Mounting diameter φ 12)

- **Application**
  - Optionally sold when φ 4.5 mm mounting hole is required on MB-B, BV, F2 and K.

- **Features**
  - Upper components with φ 4.5/6.6 mm mounting hole.

### Lower components Model MB-CMF
(Components for mounting φ 10 sub pole)

- **Application**
  - An optional unit for mounting one φ 10 sub pole in addition to the existing φ 10 sub pole.

- **Features**
  - An application range of magnetic bases is expanded such as holding light weight objects by, for example, extending the sub pole.
  - Depending on measurement conditions, the rigidity may drop. Pay attention to a drop in measurement accuracy.

#### Designed for Magnetic Base and High Lock Base

- **Application**
  - Mounted on a magnetic base or High Lock Base to secure a dial gage, linear gage, etc.

- **Features**
  - φ 6 shaft to suit the mounting hole of MB Series upper components. (DG-15-6, DG-AM-6)
  - A larger diameter dial gage such as a liner gage (φ 15) can be clamped. (DG-15-6)
  - φ 8 and φ 6 holes are provided for securing a dial gage in the dovetail groove. (DG-AM-6).
  - φ 8 shaft to suit the tip mounting pat of MB-MX and MB-OX to secure the bracket of a dial gage. (DG-X)

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<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable Base</th>
<th>Specification</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG-15-6</td>
<td>MB-series,MX,OX</td>
<td>φ 15 dial gage (linear gage, etc.)</td>
<td>68g / 0.15 lb</td>
</tr>
<tr>
<td>DG-AM-6</td>
<td>MB-series</td>
<td>Dial gage with dovetail groove</td>
<td>49g / 0.11 lb</td>
</tr>
<tr>
<td>DG-X</td>
<td>MB-MX,OX</td>
<td>Dial gage with bracket</td>
<td>40g / 0.09 lb</td>
</tr>
</tbody>
</table>

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*Refer to P69 and P72 for the common models. Note, however, that there may be difference in the main pole mounting thread hole and so on.*
**Model MB-MX**  HIGH LOCK BASE

**Mechanical lock & fine movement adjuster**

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

Consistent and highly accurate measurement

Optional upper components available

(See page 62)

**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]

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

**Features**

- By dial adjustment
- Free posture

**Model MB-MX**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lock Mechanism</th>
<th>Holding Power</th>
<th>Magnetic Holder Base</th>
<th>Arm</th>
<th>Indicator Clamp</th>
<th>Mass</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-MX13F</td>
<td>Mechanical lock</td>
<td>600N (60kgf)</td>
<td>Width 40 (1.57) Length 40 (1.57) Height 75 (2.95)</td>
<td>Lx 50 (1.96) Ly 64 (2.51) M 65 (2.55)</td>
<td>M (0.23) + 7 (0.28)</td>
<td>6.5 (0.25)</td>
<td>Smallest</td>
</tr>
<tr>
<td>MB-MX20F</td>
<td>Mechanical lock</td>
<td>800N (80kgf)</td>
<td>Width 55 (2.16) Length 55 (2.16) Height 116 (4.56)</td>
<td>Lx 75 (2.95) Ly 65 (2.55) M 65 (2.55)</td>
<td>M (0.31) + 1.25 (0.04)</td>
<td>6.5 (0.25)</td>
<td>Small</td>
</tr>
<tr>
<td>MB-MX40F</td>
<td>Mechanical lock</td>
<td>1000N (100kgf)</td>
<td>Width 73 (2.87) Length 73 (2.87) Height 220 (8.66)</td>
<td>Lx 175 (6.88) Ly 66 (2.59) M 66 (2.59)</td>
<td>M (0.31) + 1.25 (0.04)</td>
<td>6.5 (0.25)</td>
<td>Standard</td>
</tr>
</tbody>
</table>

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

**Model MB-X**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lock Mechanism</th>
<th>Holding Power</th>
<th>Magnetic Holder Base</th>
<th>Arm</th>
<th>Indicator Clamp</th>
<th>Mass</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-PSX</td>
<td>Mechanical Type</td>
<td>300N (30kgf)</td>
<td>Width 28 (1.10) Length 28 (1.10) Height 12 (0.47)</td>
<td>Lx 46 (1.81) Ly 46 (1.81) M 39 (1.57)</td>
<td>M (0.19) + 17 (0.66)</td>
<td>6.5 (0.25)</td>
<td>Smallest</td>
</tr>
<tr>
<td>MB-PSX-V</td>
<td>Mechanical Type</td>
<td>300N (30kgf)</td>
<td>Width 30 (1.18) Length 34 (1.33) Height 35 (1.37)</td>
<td>Lx 34 (1.33) Ly 35 (1.37) M 39 (1.57)</td>
<td>M (0.19) + 1.25 (0.04)</td>
<td>6.5 (0.25)</td>
<td>Smallest</td>
</tr>
</tbody>
</table>

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

**[Optional upper components available](See page 62)**

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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**

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**An example of usage**

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**Model**  
**Lock Mechanism**  
**Holding Power**  
**Magnetic Holder Base**  
**Arm**  
**Arm Mounting Tapped Hole**  
**Indicator Clamp**  
**Stem Hole**  
**Dovetail**  
**Mass**  
**Accessory**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lock Mechanism</th>
<th>Holding Power</th>
<th>Magnetic Holder Base Width</th>
<th>Length</th>
<th>Height</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>MB/0.311 × 1.25/0.04</th>
<th>Indicator Clamp</th>
<th>Stem Hole</th>
<th>Dovetail</th>
<th>Mass</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-OX</td>
<td>Hydraulic type</td>
<td>1000N (100kgf)</td>
<td>50 (19.6)</td>
<td>73</td>
<td>55</td>
<td>140</td>
<td>110</td>
<td>81</td>
<td>1.25/0.04</td>
<td>φ8 (0.311)</td>
<td>6.5 (0.25)</td>
<td>2.0kg/4.4 lb</td>
<td>Replenish oil</td>
<td></td>
</tr>
</tbody>
</table>

* 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.

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**Model**  
**Base Size**  
**Arm**  
**Mass**  
**(mm/in.)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Base Size</th>
<th>Arm</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB-MX13F</td>
<td>φ90 (3.54) × 45 (1.77)</td>
<td>75 (2.95)</td>
<td>(1.96)</td>
</tr>
<tr>
<td>GB-MX20F</td>
<td>φ120 (4.72) × 50 (1.96)</td>
<td>116 (4.56)</td>
<td>75 (2.95)</td>
</tr>
<tr>
<td>GB-MX28F</td>
<td>φ164 (6.45) × 55 (2.16)</td>
<td>160 (6.29)</td>
<td>115 (4.52)</td>
</tr>
<tr>
<td>GB-MX40F</td>
<td>φ187 (7.36) × 55 (2.16)</td>
<td>220 (8.66)</td>
<td>175 (6.88)</td>
</tr>
</tbody>
</table>
## Model MB-BRB BORER BASE*

### Hardness of V-face increased for longer life!

**[Application]**
Useful for measuring the projected amount of a cutter mounted on the arbor of a boring machine with a dial gage to locate the cutter precisely.

**[Features]**
- The attractive face (V-face) has been hardened and therefore is less likely to be scratched and highly wear resistant.
- The squareness of the face to secure the dial gage bracket to the V-face is within 5 μm.
- The dial gage mounting bracket for the φ8 stem comes as a standard accessory. The base can be put in use immediately after purchase.
- The dial gage mounting height is selectable. (2 stages)

![Conventional measuring method](image)

Mountable directly on boring bar

![Mounting bracket as standard accessory](image)

### Dimensions and Holding Power

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Length</th>
<th>Height</th>
<th>M</th>
<th>Holding Part Dimensions</th>
<th>Max. Holding Power</th>
<th>Max. Dia. to Hold</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-38</td>
<td>45(1.77)</td>
<td>35(1.37)</td>
<td>55(2.16)</td>
<td>M5(0.8) thread</td>
<td>Width 32, Angle 90°</td>
<td>137N(1.49)</td>
<td>φ45(1.77)</td>
<td>0.8kg(2.8 lb)</td>
</tr>
<tr>
<td>MB-65</td>
<td>60(2.36)</td>
<td>45(1.77)</td>
<td>75(2.95)</td>
<td>M8(0.75) thread</td>
<td>Width 32, Angle 90°</td>
<td>196N(20kgf)</td>
<td>φ80(3.15)</td>
<td>1.1kg(2.4 lb)</td>
</tr>
</tbody>
</table>

*The max. holding power is based on a test piece of φ38 round steel bar (SS400, Ra = 1.8).*

## Model MB-S BORER BASE*

### [Application]
Useful for measuring the projected amount of a cutter mounted on the arbor of a boring machine with a dial gage to locate the cutter precisely.

### Features
- The measuring tool holding arm can be freely locked by one-step tightening, which makes this base suitable for any length between its mounting position and the tip of the cutter.
- Since a magnetic force is used for holding, the dial gage is held firmly even if it is mounted inclined. Further, the magnetic force can be turned on and off for easy mounting and demounting.
- The dial gage is mounted by tightening the bracket with an M6 bolt.

![Mounting bracket as standard accessory](image)

### Dimensions and Holding Power

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Arbor Diameter</th>
<th>Holding Part Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-S12B</td>
<td>250N(25kgf) on Φ70(2.75)</td>
<td>Φ16(0.63) - Φ40(1.57)</td>
<td>Width 56(2.20) Angle 120°</td>
<td>1.3kg(2.8 lb)</td>
</tr>
</tbody>
</table>

*The dimensions marked by ※ depend on the mounting of dial gages specified in JIS B7503.*
Model **ME-LED** MAGNETIC LED LIGHT STAND

Original light weight & stylish LED stand!

[Application]
Used for area lighting over a work table or machine tool. Also usable as a table light on a steel desk.

[Features]
- The high brightness LED 5 lights/10 lights are used which consume as little electricity as 5W/10W.
- The LED lighting part is of one-piece special construction; light weight and compact.
- All models use only 21.5-mm thin lighting, requiring no wide space for mounting.
- The strong magnetic force allows these stands to be mounted not only on a horizontal surface, but on an inclined surface easily. The flexible tube offers freely selectable lighting angles.

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Holding power</th>
<th>Height</th>
<th>High Bright LED</th>
<th>Luminous Flux</th>
<th>Power Source</th>
<th>Power Consumption</th>
<th>Cord Length</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME-LED-5</td>
<td>Standard type</td>
<td>800N (80kgf)</td>
<td>442 (17.4 oz)</td>
<td>5 lights</td>
<td>Approx. 400 lm</td>
<td>100 VAC</td>
<td>Approx. 5 W</td>
<td>1.6 m/62.99</td>
<td>1.49 kg/3.31 lb</td>
</tr>
<tr>
<td>ME-LED-5L</td>
<td>Tall type</td>
<td>1000N (100kgf)</td>
<td>622 (24.4 oz)</td>
<td>10 lights</td>
<td>Approx. 800 lm</td>
<td>Approx. 10 W</td>
<td></td>
<td></td>
<td>1.63 kg/3.69 lb</td>
</tr>
</tbody>
</table>

*The LED part cannot be replaced or repaired. *The power plug is of tracking resistance type.

Model **ME** MAGNETIC LED LAMP STAND

Lamp stand dedicated to compact bulb type LED lamps!

[Application]
Suitable for spotlighting in assembling/inspection work or machining by machine tools.

[Features]
- Designed exclusively for bulb type LED lamps. The lamp configuration is compact in comparison with conventional lamp stands. The bulb protection performance has also been improved.
- The bulb type fluorescent lamp can be used in addition to the bulb type LED lamp.
- The strong magnetic force allows these stands to be mounted not only on a horizontal surface, but on an inclined surface easily. The flexible tube offers freely selectable lighting angles.

Bulb type LED lamp (ME-2CA/L2C-LED-SH) also available.

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Holding Power</th>
<th>Height</th>
<th>Cord Length</th>
<th>Bulb Capacity</th>
<th>Applicable Bulb</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME-2CA-LED</td>
<td>Standard type</td>
<td>800N (80kgf)</td>
<td>426 (16.77 oz)</td>
<td>1.6m (62.99 in)</td>
<td>Bulb type LED or bulb type fluorescent lamp</td>
<td>Base metal spec. E26</td>
<td>1.5kg/3.3 lb</td>
</tr>
<tr>
<td>ME-L2C-LED</td>
<td>Tall type</td>
<td>1000N (100kgf)</td>
<td>699 (25.12 oz)</td>
<td></td>
<td></td>
<td>Base metal spec. E26</td>
<td>2.5kg/5.5 lb</td>
</tr>
</tbody>
</table>

*The bulb type LED lamps are not included. *The incandescent lamps cannot be used. *The power plug is of tracking resistance type. *The lampshade for ME-2CA/L2C-LED is dedicated to the LED. It cannot be mounted on the conventional ME-2CA/L2C (lamp stand of incandescent lamp type). *ME-2CA-LED-SH/L2C-LED-SH with a Toshiba bulb type LED lamp (equivalent to LDA14N-G/40W, power consumption 4.4 W). (Available individually)

Model **ME-F** MAGNETIC LAMP STAND FOR WIDE AREA

Turning mechanism gives wider lighting area!

[Application]
Suitable for spotlighting in assembling/inspection work or machining by machine tools.

[Features]
- The employment of a turning mechanism and flexible tube enables a wide range of angle adjustment after positioning and provides suitable lighting angles as desired.
- The strong magnetic force allows these stands to be mounted not only on a horizontal surface, but on an inclined surface easily.
- The protective guard protects the bulb from breakage when the stand falls.
- The employment of an oil-resistant power cord allows these stands to be used on various work sites.

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Holding power</th>
<th>Height</th>
<th>Cord Length</th>
<th>Bulb Capacity</th>
<th>Applicable Bulb</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME-F2</td>
<td>Incandescent lamp type</td>
<td>800N (80kgf)</td>
<td>493 (19.4 oz)</td>
<td>1.6m (62.99 in)</td>
<td>Incandescent lamp</td>
<td>LED lamp/Bulb type fluorescent lamp</td>
<td>1.5kg/4.18 lb</td>
</tr>
<tr>
<td>ME-F2LED</td>
<td>LED type</td>
<td>477 (18.7 oz)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The bulb is not included. *The LED lamp alone is available. (LDA14N-G/40W or equivalent, power consumption 4.4 W) *The holding power is based on a test piece of SS400, 10 mm thick, ground surface. *The power plug is of tracking resistance type.
**Model ME-BLW** WATERPROOF LED LIGHT STAND

LED light illuminates a target place brightly!

**[Application]**
Recommended not only for field work but also for various situations such as precision machining, inspection, spotlighting, DIY work and outdoor.

**[Features]**
- The high brightness LED is equipped with a 2-stage brightness switchover function, which allows selection of brightness according to situations.
- The flexible tube type allows the lighting direction to be set as desired. The mechanical lock type is compact and can be locked quickly for use in a limited space.
- The LED light can be removed from the holder and carried for DIY work and during night.

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**Model ME** OUTDOOR TYPE MAGNETIC LAMP STAND

Most suitable for area lighting during outdoor work. Small and compact, but the strong magnetic holding power enables this stand to be mounted not only on a horizontal surface, but on an inclined and vertical surfaces easily.

**[Features]**
- The stand can be installed in any place, removed and relocated.
- The reflective cover is of 360° drain construction that does not allow depostion of water in any direction. (LED type)
- With the holding position remaining unchanged, only the lighting direction can be changed as desired.
- The protective guard reduces a risk of breakage if the stand fails.
- The work lamp is of highly safe double insulation construction requiring no grounding. (LED type)

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**LED bulb dedicated to ME-5RA-LED**

- The holding power is based on a test piece of SS400, 10 mm thick, ground surface. ※ The power plug is of tracking resistance type.

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**Model ME** MAGNETIC LAMP STAND

Regular lamp stand! ME Series!

- **Standard type**
- **Simple type**
- **Fluorescent lamp type**
- **Tall type**
- **Reflective plate type**
- **Power-saving lamp type**
**Model ME MAGNETIC LAMP STAND**

**[Application]**
The magnetic lamp stands allow the magnet to be turned on and off quickly, and thus can easily be installed in any place, removed and relocated. These stands are most suitable for lighting work areas on worktables or machine tools.

Small and compact, but the strong magnetic holding power enables this stand to be installed not only on a horizontal surface, but on an inclined surface easily. The flexible tube offers freely selectable lighting angles.

**[Features]**
- While the installation position is fixed by the attractive face, the lighting direction can be changed as desired.
- The protective guard protects the bulb from breakage if the stand falls.
- The employment of an oil-resistant power cord allows these stands to be used on various work sites.

***(ME-2CA-R)***
- Illuminance tripled and heat generation reduced 50%. Great power saving.
- Problems associated with incandescent lamps having good color rendering have 1 been resolved.

*1 Color rendering – A level of easiness of reading vernier scales and fine articles.*

**Comparison of illuminance when the special reflective plate is used and not used (LUX)**

<table>
<thead>
<tr>
<th>Bulb</th>
<th>Reflective Plate Used</th>
<th>Reflective Plate Not Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>40W</td>
<td>850</td>
<td>300</td>
</tr>
<tr>
<td>60W</td>
<td>1300</td>
<td>420</td>
</tr>
<tr>
<td>100W</td>
<td>2100</td>
<td>640</td>
</tr>
</tbody>
</table>

**Dedicated fluorescent lamp**

- A spiral type fluorescent lamp having high luminous intensity distribution efficiency is used. A lamp equivalent to 12W (100V) is as bright as a 60W incandescent lamp.
- Heat generated during operation has been reduced significantly.
- When compared with temperature rise of a 60W incandescent lamp, temperature is lower by about 40%.
- A long life; a service life is 5 times longer than incandescent lamps. Average life as long as 10,000 hours.
- A small and light weight shade is used.
- The lamp is housed inside the shade, which protects the lamp from breakage if the stand falls.

**Precautions for use**
- A lamp to use must be of the correct rating. The use of a lamp exceeding the rating will cause injury or accident due to heat.
- For replacement of the lamp included with ME-ELC, please use a KANETEC recommended lamp for safe operation. Please contact your nearest dealer or KANETEC sales office.

**<Names of major parts of Model ME>**

- Parts available individually

- Guard
- Shade
- ON/OFF switch
- Base part
- Flexible tube
- One set of electric parts
- Washer
- Magnetic holder base

- The bulb is not included except for Model ME-ELC. Use a bulb of base E26.
Model MB-P  MAGNETIC HOLDER BASE

[Application]
Used as magnetic holders of magnetic force ON/OFF type. Available in a wide range of sizes from minimum and medium to large. Useful as a base for temporarily mounted legs of equipment, sensors and lasers by mounting a jig using tapped holes or by some additional machining.

[Features]
- Compact, yet the base generates a strong magnetic force.
- The attractive face is either of V-groove mechanism or \( \Box \) type for attaching on a curved surface according to applications. The face opposite to the ON/OFF switch face is also attractive. (MB-PH, MB-PM and MB-PS excluded)
- Although tapped holes are provided, some additional working is possible as shown.

※If a plate is to be mounted on the top face, be sure to use a nonmagnetic material (e.g. aluminum, SUS304, brass plate). If a magnetic material such as iron is mounted on the top face, the holding power will drop significantly.

### Detailed dimensions are shown on page 72. [mm/in.]

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Tapped Hole</th>
<th>Attractive Face Shape</th>
<th>Rear Face Attraction</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-PB</td>
<td>800N (80kgf)</td>
<td>Width 50 (1.96) Length 73.2 (2.87) Height 55.2 (2.16)</td>
<td>M 8 (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td></td>
<td>○</td>
<td>1.0kg/2.2 lb</td>
</tr>
<tr>
<td>MB-PW</td>
<td>600N (60kgf)</td>
<td>Width 50 (1.96) Length 117 (4.60) Height 18 (0.70)</td>
<td>M 8 (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td></td>
<td>○</td>
<td>1.0kg/2.2 lb</td>
</tr>
<tr>
<td>MB-PH</td>
<td>1250N (125kgf)</td>
<td>Width 70 (2.75) Length 70 (2.75) Height 80 (3.15)</td>
<td>M12 (0.47) x 1.75 (0.08), depth 11 (0.43)</td>
<td></td>
<td>○</td>
<td>2.0kg/4.4 lb</td>
</tr>
<tr>
<td>MB-PS</td>
<td>600N (60kgf)</td>
<td>Width 40 (1.57) Length 40 (1.57) Height 40 (1.57)</td>
<td>M8 (0.31) x 1.25 (0.04), depth 6 (0.23)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MB-PM</td>
<td>300N (30kgf)</td>
<td>Width 30 (1.18) Length 34 (1.33) Height 35 (1.37)</td>
<td>M8 (0.31) x 1.25 (0.04), depth 6 (0.23)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MB-PL</td>
<td>1500N (150kgf)</td>
<td>Width 50 (1.96) Length 120 (4.72) Height 52 (2.04)</td>
<td>M 8 (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

※The holding power is based on a test piece of SS400, 10 mm thick, ground surface. ※MB-PW is of waterproof construction. ※MB-PB, PR and PG may be equipped with a grip (optional) of KM-B (page 71).

※If a magnetic plate is attracted on the top face, the holding power will drop significantly.

---

[Diagram showing workable area on magnetic holder base]

**Workable area on magnetic holder base**

Some working such as drilling is allowed in the above area. See Precautions on page 72 also.
**Model MB**

**MAGNETIC HOLDER BASE**

![MB-0404](image)

▲ indicates the attractive face.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Mounting Hole</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-0404</td>
<td>200N (20kgf) or over</td>
<td>40 (1.67) x 35 (1.37) x 40 (1.67)</td>
<td>MB (0.23), depth 6 (0.23) [center tapped hole]</td>
<td>0.4kg/0.8 lb</td>
</tr>
</tbody>
</table>

*The holding power is based on a test piece of SS400, 25 mm thick, ground surface.*

**Model MB-L**

**THIN PERMANENT MAGNETIC HOLDER BASE**

![MB-L series](image)

▲ indicates the attractive face.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Center Tapped Hole</th>
<th>Peripheral Tapped Hole</th>
<th>Operating Lever</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-L-45</td>
<td>200N (20kgf)</td>
<td>45 (1.77) x 20 (0.78)</td>
<td>MB (0.29) x P1.25 (0.04) x depth 0.31</td>
<td>5.15 (0.59)</td>
<td>9 (3.53)</td>
<td>0.39kg/0.86 lb</td>
</tr>
<tr>
<td>MB-L-65</td>
<td>200N (20kgf)</td>
<td>65 (2.56) x 65 (2.56)</td>
<td>M16 (0.33) x P1.0 (0.03) x depth 0.31</td>
<td>19 (0.74)</td>
<td>10 (0.39)</td>
<td>1.2kg/2.64 lb</td>
</tr>
<tr>
<td>MB-L-90</td>
<td>250N (25kgf)</td>
<td>90 (3.54) x 90 (3.54)</td>
<td>M16 (0.33) x P1.0 (0.03) x depth 0.31</td>
<td>36 (1.41)</td>
<td>3.3kg/7.27 lb</td>
<td></td>
</tr>
</tbody>
</table>

*The holding power is based on a test piece of SS400, 25 mm thick, ground surface.*

**Model MB-L-C**

**THIN PERMANENT MAGNETIC HOLDER BASE**

![MB-L-C series](image)

▲ indicates the attractive face.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Mounting Hole</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-L-C50</td>
<td>59N (0.56kgf)</td>
<td>50 (1.97) x 20 (0.79)</td>
<td>MB (0.16) x Depth 0.23</td>
<td>0.23kg/0.5 lb</td>
</tr>
<tr>
<td>MB-L-C75</td>
<td>196N (20kgf)</td>
<td>75 (2.95) x 75 (2.95)</td>
<td>MB (0.16) x Depth 0.23</td>
<td>0.68kg/1.5 lb</td>
</tr>
</tbody>
</table>

*The holding power is based on a test piece of SS400, 25 mm thick, ground surface.*

**Application**

Suitable as a base for securing jigs and measuring equipment on an iron surface plate or machine table and as a temporary base for laser and optical measurement. Since these bases are of switchover type permanent magnetic bases, they are recommended for applications that require fine adjustment and accuracy.

**Features**

- Simple ON/OFF operation with the lever.
- Thin and powerful magnetic force.
- Dry specification.
Model **KM-B** RULER HOLDER

- **Application**
  - Useful for a wide variety of operations; holding down a larger ruler on a floor or wall during machining of iron plates, etc. and moving workpieces after cutting or attracing and removing chips.
  - If used at high temperature, the holding power may drop.
  - For transporting heavy workpieces, Model HL-15 (page 97) having a reinforced grip to withstand the weight is available.

- **Features**
  - Attachable and detachable easily with the ON/OFF lever.
  - KM-B1 has the attractive face of V-groove and KM-B2 has the attractive face of inverted concave shape, which can be selected according to purposes of use.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Width</th>
<th>Length</th>
<th>Height</th>
<th>Mounting Tapped Hole</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM-B1</td>
<td>800N (60kgf)</td>
<td>50 (1.96)</td>
<td>56.5 (2.20)</td>
<td>55 (2.16)</td>
<td>M 8 (0.31) x 1.25 (0.05) x Depth (0.27)</td>
<td>1.1kg/2.4 lb</td>
</tr>
<tr>
<td>KM-B2</td>
<td>1500N (150kgf)</td>
<td>120 (4.72)</td>
<td>52 (2.04)</td>
<td></td>
<td></td>
<td>1.9kg/4.2 lb</td>
</tr>
</tbody>
</table>

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

Model **MB-2FPG** DOUBLE-FACE HOLDING MAGNETIC HOLDER BASE

A wide range of applications such as holding workpieces during welding and during precision measurement!

- **Application**
  - Since workpieces can be held on the top face and bottom face simultaneously, this holder is suitable for holding workpieces on an iron surface plate.
  - The faces have been finished precisely to make this holder usable for measurement purpose also.
  - The attractive face has a [ ] shape designed specially for flat surface attraction such as on an iron surface plate.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Width</th>
<th>Length</th>
<th>Height</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-2FPG</td>
<td>1471N (150kgf)</td>
<td>50 (1.96)</td>
<td>120 (4.72)</td>
<td>51.6 (2.02)</td>
<td>2.5kg/5.5 lb</td>
</tr>
</tbody>
</table>

*Bottom face holding power when workpiece held on whole top face: 234 N (30 kgf), Top face holding power when workpiece held on whole bottom face: 245 N (25 kgf)

("Top face holding power when workpiece held on whole bottom face" is based on a test piece of S15C, □50 x □25.)

- **Caution:** Attraction on a curved face not allowed. Not waterproof construction. For use of several bases simultaneously, they need to be finished together. Please contact us.

Model **MR** MAGNETIC LENS STAND MAGLENS*

- **Application**
  - Very useful for reading a scale of measuring instruments.

- **Features**
  - The bright and large diameter lens protects your eyes from fatigue and facilitates reading.
  - The Maglens is equipped with a flexible tube which enables the Maglens to be set at any angle as desired. The lens is also turnable.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Flexible Tube Length</th>
<th>Lens Dia.</th>
<th>Focus Distance</th>
<th>Magnification</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR-2C</td>
<td>800N (60kgf)</td>
<td>257 (10.1)</td>
<td>φ100 (3.93)</td>
<td>250 (9.84)</td>
<td>×2</td>
<td>1.5kg/3.3 lb</td>
</tr>
</tbody>
</table>

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

1. The areas shown in the following figures can be worked on additionally.
2. If areas (magnet, separator, main unit structural part) other than the areas are worked on, the ON-OFF operation may be disabled or the main unit may be damaged or disabled in the worst case.
3. Additional working may cause a drop in the holding power and strength. Prior to using the base after additional working, always check its performance.
4. If a plate is to be mounted on the top face (a tapped hole provided), be sure to use a nonmagnetic material (e.g., aluminum, SUS304, brass plate). If a magnetic material such as iron is mounted on the top face, the holding power will drop significantly.

---

**KM-B / MB-2FPG / MR**

- **MB-PB**
  - Common base type
  - MB-B / MB-BV / MB-K / MB-FX
  - MB-MX20F / KM-B1 / MR-2C

- **MB-PG**
  - Common base type
  - KM-B2 / MB-2FPG (No tapped hole on top face)
  - (No hole on MB-2FPG)

- **MB-PL**
  - Common base type
  - MB-T3 (Top face tapped hole M20)

- **MB-PRW**
  - Common base type

- **MB-PM**
  - Common base type

- **MB-PS**
  - Common base type
  - MB-PSL / MB-PSX

- **MB-0404**