**Model MB**  
**MAGNETIC BASE**

**An example of usage**

MB-PSL allows the mounting of the test indicator Ø 6 mm stem only.

**Features**
- A wide variety of models, small to large, and with diversified additional functions, are 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 → MB-Z15: 3 μm or less (1/8 or less of conventional base)**  
MB-Z20: 8 μm or less (1/3 or less of conventional base)

### Model MB  
**Power**: 800N (10kgf)

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Magnetic Holder Base</th>
<th>Main Pole</th>
<th>Sub Pole</th>
<th>Main Pole Mounting Thread</th>
<th>Mounting Stem Dia</th>
<th>Indicating Clamp Screw</th>
<th>Mass</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-B</td>
<td>800N(10kgf)</td>
<td>1203N (10kgf)</td>
<td>58.5 (2.30)</td>
<td>12 (0.47)</td>
<td>176 (6.90)</td>
<td>165 (6.49)</td>
<td>M 8 (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>1.5kg/1.3kg</td>
</tr>
<tr>
<td>MB-BV</td>
<td>1000N (10kgf)</td>
<td>1000N (10kgf)</td>
<td>55 (2.13)</td>
<td>10 (0.39)</td>
<td>150 (5.90)</td>
<td>3M4 (0.15)</td>
<td>–</td>
<td>–</td>
<td>1.5kg/1.3kg</td>
</tr>
<tr>
<td>MB-F2</td>
<td>1000N (10kgf)</td>
<td>1000N (10kgf)</td>
<td>73 (2.87)</td>
<td>14 (0.55)</td>
<td>178 (7.00)</td>
<td>165 (6.49)</td>
<td>M 8 (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>1.5kg/1.3kg</td>
</tr>
<tr>
<td>MB-K</td>
<td>1000N (10kgf)</td>
<td>1000N (10kgf)</td>
<td>72 (2.87)</td>
<td>12 (0.47)</td>
<td>178 (7.00)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>2.4kg/2.2kg</td>
</tr>
<tr>
<td>MB-RV</td>
<td>1000N (10kgf)</td>
<td>1000N (10kgf)</td>
<td>58.5 (2.30)</td>
<td>12 (0.47)</td>
<td>178 (7.00)</td>
<td>165 (6.49)</td>
<td>M 8 (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>1.5kg/1.3kg</td>
</tr>
<tr>
<td>MB-W2V</td>
<td>1300N (13kgf)</td>
<td>1000N (10kgf)</td>
<td>73 (2.87)</td>
<td>14 (0.55)</td>
<td>178 (7.00)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>3.6kg/3.3kg</td>
</tr>
<tr>
<td>MB-W2S</td>
<td>1000N (10kgf)</td>
<td>1000N (10kgf)</td>
<td>58.5 (2.30)</td>
<td>12 (0.47)</td>
<td>178 (7.00)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>3.9kg/3.6kg</td>
</tr>
<tr>
<td>MB-Z20</td>
<td>1230N (12kgf)</td>
<td>1230N (12kgf)</td>
<td>73 (2.87)</td>
<td>10 (0.39)</td>
<td>125 (4.92)</td>
<td>120 (4.72)</td>
<td>M 8 (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>1.5kg/1.3kg</td>
</tr>
<tr>
<td>MB-Z15</td>
<td>1000N (10kgf)</td>
<td>1000N (10kgf)</td>
<td>70 (2.76)</td>
<td>10 (0.39)</td>
<td>125 (4.92)</td>
<td>120 (4.72)</td>
<td>M 8 (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>0.25kg/0.25kg</td>
</tr>
<tr>
<td>MB-PSL</td>
<td>300N (3kgf)</td>
<td>300N (3kgf)</td>
<td>30 (1.18)</td>
<td>27 (1.07)</td>
<td>54 (2.13)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>5.2kg/5.1kg</td>
</tr>
<tr>
<td>MB-Z20</td>
<td>1230N (12kgf)</td>
<td>1230N (12kgf)</td>
<td>70 (2.76)</td>
<td>10 (0.39)</td>
<td>125 (4.92)</td>
<td>120 (4.72)</td>
<td>M 8 (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>0.25kg/0.25kg</td>
</tr>
</tbody>
</table>

*The upper fixture, Model DG-6 (mounting hole of ø 4.5/6.6 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. The parts of the magnetic holder base are available individually.
Model **DG** OPTIONAL CLAMP FOR MAGNETIC BASE/HIGH LOCK BASE

### Measurement variation expanded.

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

- **Application**
  Optionally sold when φ4.5 mm mounting hole is required on MB-B, BV, F2 and K.
- **Features**
  - Upper components with φ4.5/6.6 mm mounting hole.

- MB-B (Common with BV/F2)
- Model **DG-6-B** (Mounting diameter φ10)
- MB-K (Common with W2S)
- Model **DG-6-K** (Mounting diameter φ12)

#### Lower components Model MB-CMF
(Components for mounting φ10 sub pole)

- **Application**
  An optional unit for mounting one φ10 sub pole in addition to the existing φ10 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.

- Applicable models: MB-B, BV, F2 (Sub pole diameter 10 mm)
- Model **MB-CMF1010**

---

#### Design for Magnetic Base and High Lock Base

- Model **DG-15-6**
- Model **DG-AM-6**
- Model **DG-X**

- `<An example of usage>`

- φ8 stem clamping (DG-AM-6)
- Dovetail groove clamping (DG-AM-6)
- Indicator clamping (DG-X)

---

<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>φ15 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>
**Model MB-MX** HIGH LOCK BASE

**Mechanical lock & fine movement adjuster**

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

The dial gage is not included.

Optional upper components available

(See page 64)

Dial gage mounting

Names/dimensions

Details of part M and dimensions

<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 (kg)</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-MX13F</td>
<td>Mechanical lock</td>
<td>600N (60kgf)</td>
<td>Width: 40mm Length: 40mm</td>
<td>L1: 75mm L2: 50mm L3: 64mm</td>
<td>M6 (0.23 x 1)</td>
<td>0.7kg / 1.7 lb</td>
<td>Smallest</td>
</tr>
<tr>
<td>MB-MX20F</td>
<td>Mechanical lock</td>
<td>800N (80kgf)</td>
<td>Width: 58.5mm Length: 55mm</td>
<td>L1: 116mm L2: 75mm L3: 65mm</td>
<td>M6 (0.31 x 0.25)</td>
<td>1.4kg / 3.1 lb</td>
<td>Small</td>
</tr>
<tr>
<td>MB-MX28F</td>
<td>Mechanical lock</td>
<td>1000N (100kgf)</td>
<td>Width: 73mm Length: 55mm</td>
<td>L1: 160mm L2: 115mm L3: 64mm</td>
<td>M6 (0.31 x 0.25)</td>
<td>2.0kg / 4.4 lb</td>
<td>Standard</td>
</tr>
<tr>
<td>MB-MX40F</td>
<td>Mechanical lock</td>
<td>1500N (150kgf)</td>
<td>Width: 73mm Length: 55mm</td>
<td>L1: 220mm L2: 175mm L3: 66mm</td>
<td>M6 (0.31 x 0.25)</td>
<td>2.1kg / 4.8 lb</td>
<td>Long arm</td>
</tr>
</tbody>
</table>

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.

The dial gage is not included.

<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 (kg)</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-PSX</td>
<td>Mechanical lock</td>
<td>300N</td>
<td>Width: 28mm Length: 30mm</td>
<td>L1: 12mm L2: 46mm L3: 57mm</td>
<td>M5 (0.19 x 0.8 x 0.03)</td>
<td>0.38kg / 0.83 lb</td>
<td>Small, V attractive face</td>
</tr>
<tr>
<td>MB-PSX-V</td>
<td>Mechanical lock</td>
<td>300N</td>
<td>Width: 30mm Length: 34mm</td>
<td>L1: 14mm L2: 24mm L3: 24mm</td>
<td>M5 (0.19 x 0.8 x 0.03)</td>
<td>0.5kg / 1.1 lb</td>
<td>Small, V attractive face, fine movement adjuster</td>
</tr>
<tr>
<td>MB-CX-V</td>
<td>Mechanical lock</td>
<td>160N</td>
<td>Width: 28mm Length: 30mm</td>
<td>L1: 12mm L2: 46mm L3: 57mm</td>
<td>M6 (0.19 x 0.2 x 0.23)</td>
<td>0.38kg / 0.83 lb</td>
<td>Small, V attractive face, fine movement adjuster</td>
</tr>
</tbody>
</table>

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

[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]

- The model MB-MX20, MB-MX28, MB-MX40 are equipped with a fine movement adjuster.
**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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Lock Mechanism</th>
<th>Holding Power</th>
<th>Magnetic Holder Base</th>
<th>Arm Mounting Tapped Hole</th>
<th>Indicator Clamp</th>
<th>Mass</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-OX</td>
<td>Hydraulic type</td>
<td>1000N (100kgf)</td>
<td>Width: 50 (1.96) Length: 73 (2.87) Height: 55 (2.16)</td>
<td>L1: 140 (5.51) L2: 110 (4.33) L3: 81 (3.18)</td>
<td>MB (0.31) x 1.25 (0.54)</td>
<td>6.5 (0.25)</td>
<td>2.0kg/4.4lb</td>
</tr>
</tbody>
</table>

*Optional upper components available (See page 64)*

**Model MB-A2**  
**TWO ARMS TYPE MAGNETIC BASE**

**[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 arm can be changed by utilization of the mounting hole provided on the side face of the base.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Magnetic Holder Base</th>
<th>Indicator Clamp A</th>
<th>Indicator Clamp B</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-A2</td>
<td>1000N (100kgf)</td>
<td>Width: 50 (1.96) Length: 73 (2.87) Height: 55 (2.16)</td>
<td>Stem Hole: φ6 (0.23) Dovetail: φ8 (0.31)</td>
<td>Stem Hole: φ6 (0.23) Indicator Clamp B: M6 (0.23)</td>
<td>2.7kg</td>
</tr>
</tbody>
</table>

*When reducer to be used.*

**Model GB-MX**  
**GRANITE BASE**

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

**[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.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Base Size</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB-MX20F-A</td>
<td>120 (4.72) x 50 (1.96)</td>
<td>Approx. 2.7kg/5.95 lb</td>
</tr>
</tbody>
</table>
MEASURING TOOL HOLDERS

Model SMB
MAGNETIC BASE FOR SENSOR FIXING

An example of sensor mounting

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Magnetic Holder Base</th>
<th>Mass</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMB-1</td>
<td>600N (60kgf)</td>
<td>Width: 40 (1.57)</td>
<td>0.43kg/0.94lb</td>
<td></td>
</tr>
<tr>
<td>SMB-1M</td>
<td>44N (4kgf)</td>
<td>Length: 40 (1.57)</td>
<td>0.45kg/0.99lb</td>
<td>Reflector provided</td>
</tr>
</tbody>
</table>

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

Model MB-BRB
BORER BASE*

Hardness of V-face increased for longer life!

Mounting bracket as standard accessory

[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 squarness 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 bracket height is selectable. (2 stages)

Conventional measuring method

Mountable directly on boring bar

Model MB-S
BORER BASE*

The dimensions marked by ★ depend on the mounting of dial gages specified in JIS B7503.

[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 holder 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Arbor Diameter</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-S12B</td>
<td>250N (25kgf)</td>
<td>φ70 (2.75)</td>
<td>Width: 56 (2.20)</td>
<td>120°</td>
<td>1.3kg/2.8 lb</td>
<td></td>
</tr>
</tbody>
</table>

Mounting bracket as standard accessory

The max. holding power is based on a test piece of φ38 round steel bar (SS400, Ra = 1.6).
Model ME-LED \textbf{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-55A</td>
<td>Standard type</td>
<td>800N (80gf)</td>
<td>426 (6.7)</td>
<td>10 lights</td>
<td>Approx. 400lm</td>
<td>100 VAC</td>
<td>5W</td>
<td>1.6m (62.9)</td>
<td>1.45kg/3.19 lb</td>
</tr>
<tr>
<td>ME-LED-55LA</td>
<td>Tall type</td>
<td>1000N (100gf)</td>
<td>669 (9.7)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.6m (62.9)</td>
<td>1.63kg/3.59 lb</td>
</tr>
<tr>
<td>ME-LED-10</td>
<td>Bigger light type</td>
<td>800N (80gf)</td>
<td>443.5 (17.4)</td>
<td>Approx. 800lm</td>
<td></td>
<td>100 VAC</td>
<td>10W</td>
<td>1.6m (62.9)</td>
<td>1.63kg/3.59 lb</td>
</tr>
</tbody>
</table>

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

Model ME \textbf{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.

Applicable lamps (Not included)
In addition to bulb type LED lamps, bulb type fluorescent lamps can also be used.

The incandescent lamps cannot be used.

<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 (80gf)</td>
<td>426 (6.7)</td>
<td>1.6m (62.9)</td>
<td>Bulb type LED or bulb type fluorescent lamp (Base metal spec. E26)</td>
<td>1.8kg/3.9 lb</td>
<td></td>
</tr>
<tr>
<td>ME-L2C-LED</td>
<td>Tall type</td>
<td>1000N (100gf)</td>
<td>669 (9.7)</td>
<td></td>
<td></td>
<td>2.5kg/5.5 lb</td>
<td></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 lamp holder for ME-2CA/L2C-LED is dedicated to this LED. It cannot be mounted on the conventional ME-2CA/L2C (lamp stand of incandescent lamp type).
ME-2CA-LED/ME-L2C-LED/SH come with a Toshiba bulb type LED lamp (equivalent to LD4N-G/40W, power consumption 4.4 W). (Available individually)

Model ME-F \textbf{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 (80gf)</td>
<td>493 (19.4)</td>
<td>1.6m (62.9)</td>
<td>100 VAC, 100 W max.</td>
<td>Incandescent lamp</td>
<td>1.9kg/4.18 lb</td>
</tr>
<tr>
<td>ME-F2-LED</td>
<td>LED type</td>
<td>800N (80gf)</td>
<td>477 (18.7)</td>
<td></td>
<td>100 VAC, 22 W max.</td>
<td>LED lamp/Bulb type fluorescent lamp</td>
<td>1.9kg/4.18 lb</td>
</tr>
</tbody>
</table>

* The bulb is not included. * The LED lamp alone is available. (LD4N-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.

For dimensions, see page 70.
**Model ME-BW** WATERPROOF LED LIGHT STAND

**Light part waterproofed**

Parts available individually

![ME-BW20F](image1.png) ME-BW10F ME-BW5M

**LED light illuminates a target place brightly!**

*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.

**Useful in various scenes!**

- **Assembly/inspection**
- **DIY/outdoor**
- **Work in dark places**
- **In emergency**

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Holding Power</th>
<th>Height</th>
<th>LED</th>
<th>LED Light</th>
<th>Battery</th>
<th>Battery Life</th>
<th>Waterproof level</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME-BW10F</td>
<td>Standard type</td>
<td>150N (15kgf)</td>
<td>236 (9.2&quot;)</td>
<td>High brightness LED</td>
<td>Approx. 2000 lx</td>
<td>1 pc used</td>
<td>AA battery</td>
<td>Continuous approx. 5 hours</td>
<td>Equivalent to IP67</td>
</tr>
<tr>
<td>ME-BW20F</td>
<td>Long type</td>
<td>100N (10kgf)</td>
<td>325 (12.7&quot;)</td>
<td>High brightness LED</td>
<td>1 pc used</td>
<td></td>
<td>AA battery</td>
<td>3 pcs</td>
<td>Continuous approx. 5 hours</td>
</tr>
<tr>
<td>ME-BW5M</td>
<td>Mechanical lock type</td>
<td>150N (15kgf)</td>
<td>130 (5.13&quot;)</td>
<td>High brightness LED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Equivalent to IP67</td>
</tr>
</tbody>
</table>

1. Initial value under the condition of distance 500 mm, new alkaline battery used.
2. The battery is not included.
3. A level at which no dust enters and no water enters when immersed in water for 30 minutes. Waterproofed is the light part only.

**Model ME** OUTDOOR TYPE MAGNETIC LAMP STAND

**[Application]**

*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 deposition 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 falls.
- The work lamp is of highly safe double insulation construction requiring no grounding. (LED type)

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Magnet ON/OFF</th>
<th>Height</th>
<th>Cord Length</th>
<th>Bulb Capacity</th>
<th>Accessory Bulb</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME-SRA</td>
<td>(100kgf)</td>
<td>Not provided</td>
<td>248 (9.76&quot;)</td>
<td>3m</td>
<td>100VAC 200W</td>
<td>Provided</td>
<td>2kg</td>
</tr>
<tr>
<td>ME-SRA-LED</td>
<td>(100kgf)</td>
<td>Not provided</td>
<td>262 (10.3&quot;)</td>
<td>196.8</td>
<td>105VAC 200W</td>
<td>Provided</td>
<td>2.4kg</td>
</tr>
</tbody>
</table>

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

**LED bulb dedicated to ME-SRA-LED**

<table>
<thead>
<tr>
<th>Model</th>
<th>Bulb Capacity</th>
<th>LED Life</th>
<th>Luminous Flux/Beam Angle</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME-SRA-LED</td>
<td>Exclusive LED bulb</td>
<td>100VAC 200W</td>
<td>Approx. 40,000hours</td>
<td>2400lm</td>
</tr>
</tbody>
</table>

*The LED bulb included with ME-SRA-LED is a dedicated bulb. When you require LED bulbs, please contact the nearest dealer or our sales office.*
**Model ME**  
**MAGNETIC LAMP STAND**

### Regular lamp stand! ME Series!

- **Standard type**
- **Simple type**
- **Fluorescent lamp type**
- **Tall type**
- **Reflective plate type**

#### [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 work tables 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.

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

\(^1\) Color rendering: A level of easiness of reading vernier scales and fine articles.

#### Comparison of illumination 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>

#### 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.

### Parts available individually

<Names of major parts of Model ME>

- **Guard**
- **Shade**
- **Base part**
- **Flexible tube**
- **One set of electric parts**
- **Washer**
- **Magnetic holder base**

---

#### 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.

---

\(^{E26}\) The bulb is not included. Use a bulb of base E26.
**Model MB-P/MB MAGNETIC HOLDER BASE**

The holding power is based on a test piece of SS400, 10 mm thick, ground surface. MB-PRW is of waterproof construction.

MB-P, PR and PG may be equipped with a grip (optional) of KM-B (page 74).

- If a magnetic plate is attached on the top face, the holding power will drop significantly.
- The body of Model MB-P is painted and the body of Model MB-0404 is blackened.

### Workable area on magnetic holder base

Some working such as drilling is allowed in the shaded area. See Precautions on page 72 also.

### Detailed dimensions are shown on page 72.

#### Model MB-P Holding Power 800N

- **Width**: 55.5 (2.20)
- **Length**: 73 (2.87)
- **Height**: 55 (2.16)

#### Model MB-PR Holding Power 1000N

- **Width**: 50 (1.96)
- **Length**: 70 (2.75)
- **Height**: 80 (3.15)

#### Model MB-PRW Holding Power 1500N

- **Width**: 50 (1.96)
- **Length**: 120 (4.72)
- **Height**: 52 (2.04)

### Tapped Hole

- M8 (0.31) x 1.25 (0.04), depth 7 (0.27)
- M10 (0.39) x 1.25 (0.04), depth 7 (0.27)
- M12 (0.47) x 1.75 (0.06), depth 11 (0.43)
- M6 (0.23) x, depth 6 (0.23)
- M5 (0.19) x, depth 4 (0.16)
- M8 (0.31) x 1.25 (0.04), depth 7 (0.27)

### Attractive Face

- **Model MB-P/PM/PS/0404 excluded**

#### Features

- Compact, yet the base generates a strong magnetic force.
- The attractive face is either of V-groove mechanism or [ ] 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, MB-PS and MB-0404 excluded)
- Model MB-PRW is waterproofed and Model MB-0404 is drip-proofed and oil-proofed.
- Although tapped holes are provided, some additional working is possible as shown.
Information about additional working on magnetic holder bases

※ 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.
**Model MB-L**

**THIN PERMANENT MAGNETIC HOLDER BASE**

**Holding Power**

- MB-L-125: 800N
- MB-L-90: 250N
- MB-L-45: 65N
- MB-L-65: 200N
- MB-L-C50: 59N

**Mounting base of precision equipment**

**An example of usage**

**Features**

- **Holding Power**
  - 800N (MB-L-125)
  - 250N (MB-L-90)
  - 65N (MB-L-45)
  - 200N (MB-L-65)
  - 59N (MB-L-C50)

**[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 MB-L-C**

**THIN PERMANENT MAGNETIC HOLDER BASE**

**Holding Power**

- MB-L-C50: 59N

**Mounting base**

**Additional work on the top face:**

- Slight additional work such as making a tapped hole on the top face is allowed. Additional work is allowed in places that do not interfere with the top face tapped hole and the places marked by (b) (threads for assembly).
- For the allowed depth of additional work, see the table.
- Note that such additional work as making many tapped holes or slots may affect the holding power and product rigidity. When such work is required, please contact us.
- For additional work on the bottom face, please contact us.

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-L-45</td>
<td>45</td>
<td>17</td>
<td>33</td>
<td>25</td>
<td>5.5</td>
<td>1.25</td>
<td>24.5</td>
<td>0.98</td>
<td>25.0</td>
<td>0.76</td>
<td>12</td>
</tr>
<tr>
<td>MB-L-65</td>
<td>65</td>
<td>17</td>
<td>33</td>
<td>25</td>
<td>5.5</td>
<td>1.25</td>
<td>24.5</td>
<td>0.98</td>
<td>25.0</td>
<td>0.76</td>
<td>12</td>
</tr>
<tr>
<td>MB-L-90</td>
<td>90</td>
<td>34</td>
<td>33</td>
<td>25</td>
<td>6.0</td>
<td>1.25</td>
<td>24.5</td>
<td>0.98</td>
<td>25.0</td>
<td>0.76</td>
<td>12</td>
</tr>
<tr>
<td>MB-L-C50</td>
<td>50</td>
<td>34</td>
<td>33</td>
<td>25</td>
<td>6.0</td>
<td>1.25</td>
<td>24.5</td>
<td>0.98</td>
<td>25.0</td>
<td>0.76</td>
<td>12</td>
</tr>
<tr>
<td>MB-L-C75</td>
<td>75</td>
<td>34</td>
<td>33</td>
<td>25</td>
<td>6.0</td>
<td>1.25</td>
<td>24.5</td>
<td>0.98</td>
<td>25.0</td>
<td>0.76</td>
<td>12</td>
</tr>
</tbody>
</table>

**[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**  

**Parts available individually**  

**[Application]**  
Useful for a wide variety of operations; holding down a large ruler on a floor or wall during machining of iron plates, etc. and moving workpieces after cutting or attracting 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>Magnetic Holder Base</th>
<th>Mounting Tapped Hole</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM-B1</td>
<td>800N (80kgf)</td>
<td>Width: 50 (1.96) mm</td>
<td>Length: 55 (2.16) mm</td>
<td>1.1kg/2.4 lb</td>
</tr>
<tr>
<td>KM-B2</td>
<td>1500N (150kgf)</td>
<td>Width: 120 (4.72) mm</td>
<td>Length: 52 (2.04) mm</td>
<td>1.5kg/3.4 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.

**[Features]**  
●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>Mounting Hole</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-2FPG</td>
<td>1471N (150kgf)</td>
<td>Width: 50 (1.96) mm</td>
<td>Length: 51.5 (2.00) mm</td>
</tr>
</tbody>
</table>

※Bottom face holding power when workpiece held on whole top face: 294 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 × 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 (80kgf)</td>
<td>257 (10.1)</td>
<td>∅100 (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.