Demagnetizing

Table Type

Tunnel Type

Pen Type

Measurement

Coordinate Measuring Machine

Surface Plate

V-Block

Magnetic Base

Square Block

Separating

Magnetic Bar

Magclean*

Tank (Gravity separation)
**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 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

**MAGNETIC BASE**

### An example of usage

Draft text.

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**Model MB-PFL allows the mounting of the test indicator φ6 mm stem only.**

---

### Table: Main Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Magnetic Holder 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 (kg)</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-B</td>
<td>800N (80kgf)</td>
<td>58.5 (2.30)</td>
<td>12</td>
<td>176</td>
<td>M B (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>φ6 (0.23)</td>
<td>φ6 (0.23)</td>
<td>M6 (0.23)</td>
<td>3.3 kg</td>
</tr>
<tr>
<td>MB-BV</td>
<td>1000N (100kgf)</td>
<td>70 (2.87)</td>
<td>16</td>
<td>225</td>
<td>M B (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>φ6 (0.23)</td>
<td>φ6 (0.23)</td>
<td>M6 (0.23)</td>
<td>5.2 kg</td>
</tr>
<tr>
<td>MB-F2</td>
<td>1000N (100kgf)</td>
<td>73 (2.87)</td>
<td>14</td>
<td>178</td>
<td>M B (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>φ6 (0.23)</td>
<td>φ6 (0.23)</td>
<td>M6 (0.23)</td>
<td>7.9 kg</td>
</tr>
<tr>
<td>MB-W2V</td>
<td>1000N (100kgf)</td>
<td>73 (2.87)</td>
<td>16</td>
<td>225</td>
<td>M B (0.31) x 1.25 (0.04)</td>
<td>MB (0.31) x 1.25 (0.04)</td>
<td>φ6 (0.23)</td>
<td>φ6 (0.23)</td>
<td>M6 (0.23)</td>
<td>7.9 kg</td>
</tr>
</tbody>
</table>

*The upper flange, 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 MB-MX HIGH LOCK BASE

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

**Mechanical lock & fine movement adjuster**

- **Optional upper components available**

- **Consistent and highly accurate measurement**

### Model MB-OX HIGH LOCK BASE

**Hydraulic & fine movement adjuster**

- **Optional upper components available**

### Model MB-X HIGH LOCK MINI BASE

**Mechanical lock & fine movement adjuster**

- **Small and simple, suitable for use in limited space.**

---

**Model MB-MX**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lock Mechanism</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/60kg</td>
<td>40</td>
<td>96</td>
<td>0.7kg</td>
<td>Small</td>
</tr>
<tr>
<td>MB-MX20F</td>
<td>Mechanical lock</td>
<td>800N/80kg</td>
<td>56</td>
<td>116</td>
<td>1.4kg</td>
<td>Standard</td>
</tr>
<tr>
<td>MB-MX28F</td>
<td>Mechanical lock</td>
<td>1000N/100kg</td>
<td>73</td>
<td>160</td>
<td>2.5kg</td>
<td>Long arm</td>
</tr>
</tbody>
</table>

**Model MB-OX**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lock Mechanism</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-OX</td>
<td>Mechanical lock</td>
<td>1000N/100kg</td>
<td>73</td>
<td>287</td>
<td>6.5</td>
<td>2.5kg</td>
</tr>
</tbody>
</table>

**Model MB-X**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lock Mechanism</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/30kg</td>
<td>30</td>
<td>34</td>
<td>0.5kg</td>
<td>Small</td>
</tr>
</tbody>
</table>

---

**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.

---

**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.
- Models MB-CX-V/PSX-V are equipped with a fine movement adjuster.

---

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.
MEASURING TOOL HOLDERS

Model DG
OPTIONAL CLAMP FOR MAGNETIC BASE/HIGH LOCK BASE

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

[Features]
- φ6 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 linear gage (φ 15) can be clamped, (DG-15-6)
- φ6 and φ6 holes are provided for securing a dial gage in the dovetail groove, (DG-AM-6)
- φ6 shaft to suit the tip mounting pat of MB-MX and MB-OX to secure the bracket of a dial gage, (DG-X)

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 [ ] 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.

---

Model MB-P

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Tapped Hole</th>
<th>Attractive Face</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)</td>
<td>56.5 - 230</td>
<td>M (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td>○</td>
<td>1.0kg/2.2 lb</td>
</tr>
<tr>
<td>MB-PR</td>
<td>1200N (120kgf)</td>
<td>Width 70 (2.75)</td>
<td>70 - 235</td>
<td>M (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td>○</td>
<td>1.3kg/2.9 lb</td>
</tr>
<tr>
<td>MB-PRW</td>
<td>600N (60kgf)</td>
<td>Width 40 (1.57)</td>
<td>40 - 157</td>
<td>M (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td>○</td>
<td>1.2kg/2.7 lb</td>
</tr>
<tr>
<td>MB-PL</td>
<td>800N (80kgf)</td>
<td>Width 30 (1.18)</td>
<td>30 - 168</td>
<td>M (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td>○</td>
<td>2.0kg/4.4 lb</td>
</tr>
<tr>
<td>MB-PM</td>
<td>1200N (120kgf)</td>
<td>Width 80 (3.15)</td>
<td>80 - 235</td>
<td>M (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td>○</td>
<td>3.0kg/6.6 lb</td>
</tr>
<tr>
<td>MB-PS</td>
<td>400N (40kgf)</td>
<td>Width 120 (4.72)</td>
<td>120 - 244</td>
<td>M (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td>○</td>
<td>0.5kg/1.1 lb</td>
</tr>
<tr>
<td>MB-PG</td>
<td>1500N (150kgf)</td>
<td>Width 50 (1.96)</td>
<td>50 - 198</td>
<td>M (0.31) x 1.25 (0.04), depth 7 (0.27)</td>
<td>○</td>
<td>0.2kg/0.4 lb</td>
</tr>
</tbody>
</table>

※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.

---

Some working such as drilling is allowed in the area.
MAGNETIC HOLDERS

Model KM
PERMANENT MAGNETIC HOLDER

[Application]
Can be used to hold down drawings, rules and paper patterns. The holders with a tapped hole on the back can be used widely by installing them on jigs. Can be incorporated in press dies. Can hold workpieces during wire cutting.

[Features]
- Six types of specifications: OD tolerance, plating, painting, peripheral knurling, stainless steel spec. and heat-resistance spec. are available for selection according to applications.
- By matching the OD “h” tolerance, the holders can be incorporated in dies.
- A tapped hole on the back makes the holders useful in various applications.

Upper limit of working temperature
The holding power drops as body temperature rises. The following types are available. The original holding power returns to the original level when the temperature drops to normal temperature.

- **Type A** (Alnico magnet used)
  Superior in terms of temperature. The holding power as high as 85% can be maintained at 350°C when the holding power at 20°C is 100%. This type can be used up to 400°C intermittently for a short period of time.

- **Type B** (Samarium-cobalt type rare earth magnet used)
  The holding power drops to about 95% at 100°C and to about 85% at 200°C when the holding power at 20°C is 100%. For continuous use, the upper limit is 150°C and for intermittent use for a short period of time, this type may be used up to 200°C.

- **Type C** (Neodymium rare earth magnet used)
  The holding power drops to about 85% at 50°C and to about 70% at 100°C when the holding power at 20°C is 100%. The upper limit for continuous use is 100°C.

**OD “h” tolerance specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>OD × Height</th>
<th>Holding Power</th>
<th>Surface Treatment</th>
<th>Mounting Tapped Hole</th>
<th>Workable Range</th>
<th>Upper Limit of Working Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM-005</td>
<td>0.10(0.03) × 0.31(0.012)</td>
<td>0.3N (0.03kgf)</td>
<td>None None</td>
<td>5(0.19) 4(0.17)</td>
<td>12(0.47)</td>
<td>Type A Not allowed.</td>
</tr>
<tr>
<td>KM-007</td>
<td>0.12(0.047) × 0.31(0.012)</td>
<td>0.4N (0.04kgf)</td>
<td>None None</td>
<td>7(0.27) 6.5(0.29)</td>
<td>12(0.47)</td>
<td>Type A Prepared hole up to 3.0 deep on the rear face allowed.</td>
</tr>
</tbody>
</table>

**Peripheral knurling specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>OD × Height</th>
<th>Holding Power</th>
<th>Surface Treatment</th>
<th>Mounting Tapped Hole</th>
<th>Workable Range</th>
<th>Upper Limit of Working Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM-001J</td>
<td>0.20(0.08) × 0.31(0.012)</td>
<td>3N (0.3kgf)</td>
<td>None None</td>
<td>13(0.51) 12(0.47)</td>
<td>Type A Provided.</td>
<td></td>
</tr>
<tr>
<td>KM-001J</td>
<td>0.20(0.08) × 0.31(0.012)</td>
<td>5N (0.5kgf)</td>
<td>None None</td>
<td>15(0.59) 14(0.55)</td>
<td>Type A Prepared hole up to 3.0 deep on the rear face allowed.</td>
<td></td>
</tr>
</tbody>
</table>

**Painting specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>OD × Height</th>
<th>Holding Power</th>
<th>Surface Treatment</th>
<th>Mounting Tapped Hole</th>
<th>Workable Range</th>
<th>Upper Limit of Working Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM-052C</td>
<td>30(1.18) × 0.31(0.012)</td>
<td>100N (10kgf)</td>
<td>None None</td>
<td>26(1.02) 24(0.94)</td>
<td>28(1.01)</td>
<td>Type A Provided.</td>
</tr>
</tbody>
</table>
**Model KYA - SQUARE TYPE BLOCK**

![Image of Model KYA]

**Model KYB - SQUARE TYPE BLOCK**

![Image of Model KYB]

**Model KVA - MAGNETIC V-HOLDER**

![Image of Model KVA]

**Model KVS - MAGNETIC V-HOLDER**

![Image of Model KVS]

---

### Model KYA - SQUARE TYPE BLOCK

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Applicable Diameter</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KYA-8B</td>
<td>120N (12kgf)</td>
<td>ø 10 (0.39&quot;) - ø 25 (1.0&quot;)</td>
<td>80 (3.1&quot;) - 80 (3.1&quot;)</td>
<td>60 (2.4&quot;)</td>
</tr>
<tr>
<td>KYA-10B</td>
<td>200N (20kgf)</td>
<td>ø 10 (0.39&quot;) - ø 35 (1.4&quot;)</td>
<td>100 (3.9&quot;) - 100 (3.9&quot;)</td>
<td>72 (2.8&quot;)</td>
</tr>
<tr>
<td>KYA-13B</td>
<td>300N (30kgf)</td>
<td>ø 10 (0.39&quot;) - ø 40 (1.6&quot;)</td>
<td>125 (4.9&quot;) - 125 (4.9&quot;)</td>
<td>87 (3.4&quot;)</td>
</tr>
<tr>
<td>KYA-15B</td>
<td>400N (40kgf)</td>
<td>ø 10 (0.39&quot;) - ø 48 (1.9&quot;)</td>
<td>150 (5.9&quot;) - 150 (5.9&quot;)</td>
<td>107 (4.2&quot;)</td>
</tr>
<tr>
<td>KYA-20B</td>
<td>650N (65kgf)</td>
<td>ø 14 (0.55&quot;) - ø 50 (2&quot;)</td>
<td>200 (7.9&quot;) - 200 (7.9&quot;)</td>
<td>155 (6.1&quot;)</td>
</tr>
</tbody>
</table>

★ The holding power is based on the V face and ø 20 round steel bar. ★ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

---

### Model KYB - SQUARE TYPE BLOCK

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Applicable Diameter</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KYB-8A</td>
<td>180N (18kgf) or over</td>
<td>ø 10 (0.39&quot;) - ø 32 (1.3&quot;)</td>
<td>80 (3.1&quot;) - 80 (3.1&quot;) - 80 (3.1&quot;)</td>
<td>29 (1.1&quot;)</td>
</tr>
<tr>
<td>KYB-10A</td>
<td>340N (34kgf) or over</td>
<td>ø 13 (0.5&quot;) - ø 50 (2&quot;)</td>
<td>100 (3.9&quot;) - 100 (3.9&quot;) - 70 (2.8&quot;)</td>
<td>40 (1.6&quot;)</td>
</tr>
<tr>
<td>KYB-13A</td>
<td>400N (40kgf) or over</td>
<td>ø 13 (0.5&quot;) - ø 60 (2.4&quot;)</td>
<td>125 (4.9&quot;) - 125 (4.9&quot;) - 90 (3.6&quot;)</td>
<td>45 (1.8&quot;)</td>
</tr>
<tr>
<td>KYB-15A</td>
<td>580N (58kgf) or over</td>
<td>ø 14 (0.55&quot;) - ø 66 (2.6&quot;)</td>
<td>150 (5.9&quot;) - 150 (5.9&quot;) - 100 (4&quot;)</td>
<td>50 (1.6&quot;)</td>
</tr>
<tr>
<td>KYB-18A</td>
<td>660N (66kgf) or over</td>
<td>ø 14 (0.55&quot;) - ø 76 (3&quot;)</td>
<td>180 (7&quot;) - 180 (7&quot;) - 120 (4.7&quot;)</td>
<td>50 (1.6&quot;)</td>
</tr>
<tr>
<td>KYB-20A</td>
<td>780N (78kgf) or over</td>
<td>ø 16 (0.6&quot;) - ø 80 (3.1&quot;)</td>
<td>200 (7.9&quot;) - 200 (7.9&quot;) - 155 (6.1&quot;)</td>
<td>60 (2.4&quot;)</td>
</tr>
</tbody>
</table>

★ The holding power is based on the V face and ø 20 round steel bar. ★ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

---

### Model KVA - MAGNETIC V-HOLDER

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Applicable Diameter</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KVA-1A</td>
<td>200N (20kgf) or over</td>
<td>ø 8 (0.31&quot;) - ø 50 (2&quot;)</td>
<td>60 (2.4&quot;) - 72 (2.8&quot;)</td>
<td>125 (4.9&quot;) - 38 (1.5&quot;)</td>
</tr>
<tr>
<td>KVA-2A</td>
<td>450N (45kgf) or over</td>
<td>ø 8 (0.31&quot;) - ø 70 (2.8&quot;)</td>
<td>125 (4.9&quot;) - 125 (4.9&quot;)</td>
<td>150 (5.9&quot;) - 38 (1.5&quot;)</td>
</tr>
</tbody>
</table>

★ The holding power is based on the V face and ø 20 round steel bar. ★ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

---

### Model KVS - MAGNETIC V-HOLDER

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Applicable Diameter</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KVS-1B</td>
<td>0.7WN (70kgf)</td>
<td>ø 6 (0.24&quot;) - ø 69 (2.7&quot;)</td>
<td>75 (2.9&quot;) - 50 (2&quot;)</td>
<td>100 (3.9&quot;) - 105</td>
</tr>
<tr>
<td>KVS-2B</td>
<td>1.0WN (100kgf)</td>
<td>ø 8 (0.31&quot;) - ø 80 (3.1&quot;)</td>
<td>50 (2&quot;)</td>
<td>200 (7.9&quot;) - 44 (1.7&quot;)</td>
</tr>
</tbody>
</table>

★ The holding power is based on ø 20 round steel bar. ★ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

---

**Blocks, Holders, Permanent Magnetic Chuck**

- **Model KYA**: Holding tools for marking and light-duty machining. Holding tools for three-dimensional measuring instruments and various measuring systems.
- **Model KYB**: Holding tools for marking and light-duty machining. Holding tools for three-dimensional measuring instruments and various measuring systems.
- **Model KVA**: Holding tools for round bar marking, drilling, tapping, and grinding of irregularly shaped workpieces. Holding tools for three-dimensional measuring instruments and various measuring systems.
- **Model KVS**: Suitable for securing irregularly shaped workpieces for grinding and light-duty cutting such as drilling and tapping.
**Model KMV**

**MAGNETIC V-BLOCK**

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Applicable Diameter</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMV-50D</td>
<td>150N (16gf)</td>
<td>ø 8 (0.31) ~ ø 50 (1.96)</td>
<td>50 (1.97)</td>
<td>1.76</td>
</tr>
<tr>
<td>KMV-80D</td>
<td>200N (20gf)</td>
<td>ø 8 (0.31) ~ ø 80 (3.14)</td>
<td>50 (1.97)</td>
<td>2.76</td>
</tr>
<tr>
<td>KMV-125D</td>
<td>230N (23gf)</td>
<td>ø 8 (0.31) ~ ø 125 (4.92)</td>
<td>100 (3.93)</td>
<td>3.64</td>
</tr>
</tbody>
</table>

*The holding power is based on the V face and ø20 round steel bar.

*Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

---

**Model KMV-M**

**PERMANENT MAGNETIC MINI V-BLOCK**

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Applicable Diameter</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMV-M020</td>
<td>8.9N (1kgf)</td>
<td>ø 15 (0.59)</td>
<td>25 (1.02)</td>
<td>0.09kg/0.13 lb x 2</td>
</tr>
<tr>
<td>KMV-M025</td>
<td>15.6N (1kgf)</td>
<td>ø 20 (0.78)</td>
<td>25 (1.02)</td>
<td>0.13kg/0.28 lb x 2</td>
</tr>
<tr>
<td>KMV-M032</td>
<td>49 N (1kgf)</td>
<td>ø 25 (0.98)</td>
<td>32 (1.26)</td>
<td>0.24kg/0.53 lb x 2</td>
</tr>
</tbody>
</table>

*The holding power is based on ø10 round steel bar.

*The dimensional accuracy of KMV-M is based on KANETEC in-house standards. If you require higher accuracy, please contact us.

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**Model RMWH**

**RECTANGULAR PERMANENT MAGNETIC MICROPITCH CHUCK**

![Rectangular Permanent Magnetic Micropitch Chuck](image)

**Features**

- Extremely low profile, 45 mm for small to medium sizes and 50 mm for large sizes and light weight.
- A wide attractive area on the chuck work face, allowing the clamping to be utilized.
- The magnetic force ON-OFF handle can be operated lightly thanks to a special slide design. The slide insert type used allows the handle to be detached when it is not used.
- Micropitch type having very fine pole-to-pole pitches. This design provides effective holding power not only on thick workpieces but also on thin and small workpieces.
- Drip-proof specification.

**Application**

Suitable for grinding, thin, and small workpieces.

![Application](image)
### MINI CHUCKS

#### Model KPB

**DOUBLE-FACE/SINGLE-FACE HOLDING PERMANENT MAGNETIC BLOCK**

<table>
<thead>
<tr>
<th>Single face type</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Pole Pitch</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Nominal Size</td>
<td>B</td>
<td>L</td>
<td>H</td>
</tr>
<tr>
<td>KPB-1F18</td>
<td>50 (1.96) × 125 (4.92)</td>
<td>125 (4.92)</td>
<td>85 (3.34)</td>
<td>1.5 (0.5/0.1)</td>
</tr>
<tr>
<td>KPB-1F18</td>
<td>50 (1.96) × 180 (7.06)</td>
<td>180 (7.06)</td>
<td>110 (4.33)</td>
<td>0.05 (0.02/0.03)</td>
</tr>
<tr>
<td>KPB-1F25</td>
<td>50 (1.96) × 250 (9.84)</td>
<td>250 (9.84)</td>
<td>150 (5.90)</td>
<td>3.4kg/6.8 kg x 2</td>
</tr>
</tbody>
</table>

- The holding power is based on a test piece of SS400, 20 mm thick (ground surface) held on the whole face.

#### Model MMZ

**ONE-FACE HOLDING RECTANGULAR PERMANENT MAGNETIC MINI CHUCK**

- The holding power is based on a test piece of SS400, 20 mm thick (ground surface) held on the whole face.

#### Model MMC

**ONE-FACE HOLDING ROUND PERMANENT MAGNETIC MINI CHUCK**

- The holding power is based on a test piece of SS400, 20 mm thick (ground surface) held on the whole face.

#### Model MMW

**THREE-FACE HOLDING PERMANENT MAGNETIC MINI CHUCK**

- The holding power is based on a test piece of SS400, 20 mm thick (ground surface) held on the whole face.
## MAGNETIC HOLDERS

### Model KE-B•D•E ELECTROMAGNETIC HOLDER

![Diagram of KE-B•D•E model with labels](image)

- **Applications**
  - These holders are suitable for a wide range of operations such as feeding materials on automatic press machines, preventing deflection of shearing materials, various automatic processes and handling of industrial robots.
  - Special cables that have specially high durability against bending and vibration are used. (Employed in all models except for KE-B and KE-D2.)
  - Electrical control can be used for turning on and off the magnetic force and for remote operation.
  - Usable continuously.
  - Finished by plating.

- **Type of cord on the top face spec. (KE-B/E/U)** is also available.

### RH-M ELECTROMAGNETIC HOLDER HIGH-SPEED CONTROLLER

- **Application**
  - These are breakthrough electric products that can make standard electromagnetic holders respond to higher-speed motion of workpiece handling by robot hands, etc.

- **Features**
  - The residual holding power, a factor to delay workpiece attaching and detaching operations, can be eliminated quickly to speed up the lines that use standard electromagnetic holders. (Demagnetizing time may become longer depending on materials of workpieces.)
  - These controllers can be used to attract and transfer stacked plates one by one or to pick up parts stored in a bucket one by one by adjusting the voltage.

- **Model RH-M303A-6/24 Series**
  - The employment of FET in the output circuit ensures high-speed and consistent demagnetization performance. This Series also withstands frequent usage.
  - The PWM output control provides consistent output voltages not affected by voltage fluctuation and difference of power source frequency at very weak output setting.
  - A wide range of power source from 100 VAC to 220 VAC can be used.
  - The rated output voltage can be selected between 24 V and 6 V with a dip switch. (KE-1B also supported.)
  - The demagnetization function is incorporated. (Alternate attenuation and reverse excitation can be selected with a dip switch.)
  - A weak magnetization adjustment function is incorporated.

#### Table: RH-M303A-6/24 Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Output Voltage</th>
<th>Current</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
<th>Damag.</th>
<th>Applicable Holder</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH-M303A-6/24</td>
<td>6V</td>
<td>0–24 VDC</td>
<td>3A</td>
<td>55</td>
<td>175</td>
<td>175</td>
<td>175</td>
<td>KE-1B</td>
<td>0.8g</td>
</tr>
<tr>
<td>RH-M303A-6/24-C1</td>
<td>6V</td>
<td>0–24 VDC</td>
<td>3A</td>
<td>175</td>
<td>205</td>
<td>205</td>
<td>175</td>
<td>KE-2B/4E</td>
<td>1.79g</td>
</tr>
<tr>
<td>RH-M303A-6/24-C2</td>
<td>6V</td>
<td>0–24 VDC</td>
<td>3A</td>
<td>55</td>
<td>175</td>
<td>175</td>
<td>175</td>
<td>KE-2B/4F</td>
<td>2.5g</td>
</tr>
<tr>
<td>RH-M101C</td>
<td>6V</td>
<td>0–90 VDC</td>
<td>2A</td>
<td>55</td>
<td>175</td>
<td>175</td>
<td>175</td>
<td>KE-5E/9E</td>
<td>4.3g</td>
</tr>
<tr>
<td>RH-M105B</td>
<td>6V</td>
<td>0–90 VDC</td>
<td>5A</td>
<td>175</td>
<td>205</td>
<td>205</td>
<td>205</td>
<td>KE-5E/9F</td>
<td>4.93g</td>
</tr>
<tr>
<td>RH-M201B</td>
<td>6V</td>
<td>0–90 VDC</td>
<td>10A</td>
<td>205</td>
<td>205</td>
<td>205</td>
<td>205</td>
<td>KE-5E/9H</td>
<td>5.9g</td>
</tr>
<tr>
<td>RH-M203B</td>
<td>6V</td>
<td>0–90 VDC</td>
<td>2A</td>
<td>55</td>
<td>175</td>
<td>175</td>
<td>175</td>
<td>KE-5E/9I</td>
<td>4.3g</td>
</tr>
</tbody>
</table>

- [For ON/OFF control, external control is required. Input signals are to be provided by the customer.]

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**RH-M303A-6/24 Series**

- **[Type installed inside panel]** A simple construction of PWB and chassis suitable for installation inside the machine power source panel.

- **[Cover type]** A type having a dedicated cover added to the type installed inside panel. A power indicator lamp is provided on the panel.

- **[Type housed in case]** The basic construction is the type installed inside panel. This is placed in a dedicated case to enable installation on the side face of a machine. This type is equipped with a power indicator lamp, voltmeter, magnetic force adjust variable resistor and demagnetizing variable resistor.
LIFTING MAGNETS, MAGTAP*

Model LPR-VN SMALL PERMANENT MAGNETIC LIFMA*

Permanent magnetic Lifma with enhanced operability and safety.

[Application]
Permanent magnetic type lifting magnets used as a lifting section of cranes and hoists for transportation of steel materials in warehouses and machining shops or for loading and unloading workpieces to and from machine tools. These are suitable for transporting semi-finished products having a flat surface such as machine parts, press dies and plastic molds and for transporting mill scale steel plates and flat steel materials.

Features
- All types are capable of lifting steel plates and round steel bars.
- These are of permanent magnetic type requiring no power source. Thus, there is no risk of falling workpieces due to power failure or failure of wiring systems.
- The narrowest handle operating angle of 60 degrees (patented) in the industry facilitates the ON/OFF operation in small space.
- In addition to the conventional handle lock mechanism, a safety stopper is provided as a standard accessory. These double safety measures prevent falling of lifted objects due to unexpected returning of the handle.

All types for steel plates and round steel bars!

Model LPH LARGE PERMANENT MAGNETIC LIFMA*

[Application]
Permanent magnetic type lifting magnets used as a lifting section of cranes and hoists for transportation of steel materials in warehouses and machining shops or for loading and unloading workpieces to and from machine tools. These are suitable for transporting semi-finished products having a flat surface such as machine parts, press dies and plastic molds and for transporting mill scale steel plates and flat steel materials.

Features
- All types are capable of lifting steel plates and round steel bars.
- The ON/OFF handle operating force has been reduced to a half max. of that of the conventional models. The operability in lifting thin workpieces and pipes that are difficult to lift with conventional models has been improved. (Patented)
- In addition to the conventional handle lock mechanism, a safety stopper is provided as a standard accessory. These double safety measures prevent falling of lifted objects due to unexpected returning of the handle. (Design registered)
- These are of permanent magnetic type requiring no power source. Thus, there is no risk of falling workpieces due to power failure or failure of wiring systems.

All types for steel plates and round steel bars!

Model HL HAND LIFMA*

[Application]
Suitable for pulling out steel materials or steel plates and carrying metal frames, raw materials, press molds, semi-finished products, etc.

Features
- A new cam mechanism is employed so as not to apply friction due to holding and releasing directly to the surface of workpieces to transport. (HL-20A)
- Workpieces are held and released quite smoothly.
- The magnetic force can be turned on and off by lever operation. (HL-15)
- The T-handle is robust and held by hand comfortably for stable workpiece transportation. (HL-15)

How to use (HL-20A)

Model MTP MAGTAP*

[Application]
A tool designed to facilitate tapping of prepared holes in iron and steel plates, secured with a powerful magnet.

Features
- Small and light weight for easy carrying around.
- The tap guide holder to facilitate accurate tapping in horizontal and vertical faces.
- Wear and damage of taps can be prevented.
- The tap guide holder is a powerful permanent magnet.

All types for steel plates and round steel bars!
Model HMC MAGHAND*

Collect bolts, screws and nails scattered around on the floor!

[Application]
The Maghand is suitable for collecting iron pieces that are scattered around on the floor or mixed in media. Since it can also be used to remove and collect iron pieces from powder materials, it has a wide range of applications including machining, forging and food processing. The Maghand is also useful in the household or as a teaching material.

[Features]
- The magnetic force can be turned on and off simply by one-hand operation.
- The Maghand employs a powerful magnet for powerful attraction and a wide attractive face.
- Model HMC-75A has a long arm to make it suitable for collecting iron pieces in pits and enclosures.
- Model HMC-T is cased with aluminum and therefore its strength and resistance have been improved from that of Model HMC-A. (High-temperature type up to 150°C)

Model KF STEEL PLATE SEPARATOR “FLOATER”*

[Application]
Suitable for separating stacked iron plates one by one and feeding them to machines (presses, shearing machines, etc.) and for installation as a separator at the take-out side for feeding steel plates one by one in the steel plate automatic feeding line.

[Features]
- Standard type using a high-performance ferrite magnet. Can be mounted on machines easily and several units can be coupled according to size, shape and weight of steel plates.
- The two rails on the magnetic polar surface automatically separate steel plates without requiring mechanical separating work.
- Not only steel plates but also semi-finished pressed workpieces, circular workpieces and irregularly shaped workpieces can be separated at certain intervals by use of several units of Floater.
- One set consists of two units.

Model MS-F FH FHP MAGCLEAN*

Magnetic coolant separator

[Application]
This unit is incorporated in the grinding fluid purification and circulation system for grinders to remove iron powder, a major part of purification. When this is used together with a tank in which particles other than iron powder such as abrasive grains are separated by floating and precipitation, repurified and regenerated grinding fluid can be supplied to grinders again.

[Features]
- The construction of a stationary magnet and a rotary outer drum shell has no magnet in the area of the rake plate to allow smooth discharge of sludge. (The life of the rake plate is also prolonged.)
- The magnetic drum rotation drive has been modified to improve durability significantly.
- The squeezing roller tensioning mechanism has been designed anew to improve the squeezing performance.
- The squeezing roller and inlet areas are covered to enhance safety as well as to prevent grinding fluid from splashing/scattering.
- The outlet can be located on the right, left or bottom to allow flexible change of the circulation system layout.
- The high magnetic force type (MS-FaH: drum surface max. flux density 0.3T (3000G)/super high magnetic force type (MS-FH: 0.5T (5000G)) are most suitable for collection of weak magnetic and minute sludge.
- A type having a motor on the right side (MS-F-R) is also available.

Additional Text:

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity: M10 plain washers — about 0.6 kg</td>
</tr>
<tr>
<td>M4 × 10 screws —— about 0.7 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMC-1A</td>
<td>114 (4.48)</td>
<td>95 (3.74)</td>
</tr>
<tr>
<td>HMC-5A</td>
<td>500 (19.6)</td>
<td>85 (3.34)</td>
</tr>
<tr>
<td>HMC-7A</td>
<td>750 (29.5)</td>
<td>1.4kg/1.96 lb</td>
</tr>
<tr>
<td>HMC-T1A</td>
<td>241 (9.48)</td>
<td>1.2kg/2.66 lb</td>
</tr>
<tr>
<td>HMC-T5A</td>
<td>514 (20.2)</td>
<td>1.0kg/2.22 lb</td>
</tr>
<tr>
<td>HMC-T75A</td>
<td>764 (30.0)</td>
<td>2.3kg/5.07 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KF-10</td>
<td>66.2/16</td>
<td>374.5</td>
</tr>
<tr>
<td>KF-15</td>
<td>87.3/22</td>
<td>35.5 (1.21)</td>
</tr>
<tr>
<td>KF-20</td>
<td>106.7/30</td>
<td>35.5 (1.21)</td>
</tr>
<tr>
<td>KF-30</td>
<td>219 (9.80)</td>
<td>65.5 (2.21)</td>
</tr>
<tr>
<td>KF-40</td>
<td>254 (10.0)</td>
<td>65.5 (2.21)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-FB</td>
<td>375 (14.8)</td>
<td>287.5</td>
</tr>
<tr>
<td>MS-4FB</td>
<td>375 (14.8)</td>
<td>287.5</td>
</tr>
<tr>
<td>MS-6FB</td>
<td>375 (14.8)</td>
<td>287.5</td>
</tr>
<tr>
<td>MS-FB</td>
<td>375 (14.8)</td>
<td>287.5</td>
</tr>
<tr>
<td>MS-12FB</td>
<td>375 (14.8)</td>
<td>287.5</td>
</tr>
<tr>
<td>MS-18FB</td>
<td>375 (14.8)</td>
<td>287.5</td>
</tr>
<tr>
<td>MS-24FB</td>
<td>375 (14.8)</td>
<td>287.5</td>
</tr>
</tbody>
</table>
**DEMAGNETIZERS**

**Model KMD**

**TABLE TYPE DEMAGNETIZER**

Compact but improved demagnetizing performance!

For demagnetization, be sure to move the workplace without stopping over the demagnetizer.

If you plan to install the demagnetizer in the vertical direction or opposite direction, please contact us.

[Application]
These demagnetizers produce an alternating magnetic field on the surface by use of an AC power source, through which workplaces are passed to remove the magnetism remaining on their surface.

**Features**
- Thick workpieces can be demagnetized effectively by moving both the face and the back of the demagnetizer.
- These demagnetizers have good heat radiation and can withstand continuous power-on condition.
- These demagnetizers are very powerful and can demagnetize steel materials that have properties similar to magnetic steel and have large magnetism holding power such as high-speed steel, bearing steel, nickel-chrome steel, spring steel, die steel, etc. that are usually difficult to demagnetize. (KMD-2A, KMD-30C to 50C)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>KMD-3A</td>
<td>3-phase 200 VAC, 50/60 Hz</td>
<td>2kVA (9.8A)</td>
<td>100% ED</td>
<td>140 (6.25)</td>
<td>450 (17.4)</td>
<td>30kg/66 lb</td>
</tr>
<tr>
<td>KMD-15C</td>
<td>Single-phase 100 VAC, 50/60 Hz</td>
<td>140VA (1.4A)</td>
<td></td>
<td>150 (5.90)</td>
<td>245 (9.64)</td>
<td>140 (5.51)</td>
</tr>
<tr>
<td>KMD-20C</td>
<td>300VA (3.0A)</td>
<td></td>
<td></td>
<td>200 (7.87)</td>
<td>85 (3.15)</td>
<td>7kg/15 lb</td>
</tr>
<tr>
<td>KMD-30C</td>
<td>Single-phase 200 VAC, 50/60Hz</td>
<td>0.74kVA (7.3A)</td>
<td></td>
<td>300 (11.8)</td>
<td>300 (11.8)</td>
<td>19kg/41 lb</td>
</tr>
<tr>
<td>KMD-40C</td>
<td>1.06kVA (5.2A)</td>
<td></td>
<td></td>
<td>400 (15.7)</td>
<td>200 (7.87)</td>
<td>120 (4.72)</td>
</tr>
<tr>
<td>KMD-50C</td>
<td>1.28kVA (6.4A)</td>
<td></td>
<td></td>
<td>500 (19.6)</td>
<td>200 (7.87)</td>
<td>57kg/121 lb</td>
</tr>
</tbody>
</table>

Cable, φ 6 m included. KMD-15C/20C come with a ground plug. A different-voltage type special type is also available.

**Model KMDT**

**TUNNEL TYPE DEMAGNETIZER**

An example of usage

[Application]
These demagnetizers can meet such demagnetizing needs as passing a bucket containing a large amount of small workpieces and being incorporated in a line for continuous demagnetizing by conveyor transfer. Various sizes are available to meet such requirements. They can also be used to demagnetize long workpieces and irregularly shaped workpieces.

**Features**
- The high heat radiation design enables continuous operation.
- A uniform demagnetizing area can be obtained.
- Almost uniform demagnetization can act on the whole peripheral of passing workpieces.

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Source</th>
<th>Source Capacity (Current)</th>
<th>Working Rate</th>
<th>Effective Demag. Width</th>
<th>Dimensions</th>
<th>Mass</th>
<th>Applicable Cable 2-core (MMVC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMDT-10A</td>
<td>Single-phase 200 VAC, 50/60 Hz</td>
<td>0.46kVA (2.3A)</td>
<td>100% ED</td>
<td>9.5 (0.37)</td>
<td>40 (1.67)</td>
<td>15kg/33 lb</td>
<td>1.25mm</td>
</tr>
<tr>
<td>KMDT-16A</td>
<td>1.6kVA (8A)</td>
<td></td>
<td></td>
<td>153 (5.99)</td>
<td>153 (5.99)</td>
<td>70 (2.79)</td>
<td>5.5mm</td>
</tr>
<tr>
<td>KMDT-25A</td>
<td>Single-phase 220 VAC, 60 Hz</td>
<td>6kVA (25A)</td>
<td></td>
<td>180 (6.99)</td>
<td>180 (6.99)</td>
<td>60 (2.26)</td>
<td>5.5mm</td>
</tr>
<tr>
<td>KMDT-40A</td>
<td>11kVA (55A)</td>
<td></td>
<td></td>
<td>200 (7.87)</td>
<td>200 (7.87)</td>
<td>60 (2.26)</td>
<td>14mm</td>
</tr>
</tbody>
</table>

The cable and switch are not included. A different-voltage type special type is also available.

**Model KMDE**

**STATIONARY DEMAGNETIZER**

[Application]
Used to eliminate residual magnetism in magnetized workpieces and tools. Pressing the demagnetizing button can complete demagnetization within a certain time without moving workpieces.

**Features**
- A magnetomotive force greater than the AC demagnetizer has been set, which works well on hard workpieces such as bearing steel and cutter steel that are difficult to demagnetize with conventional demagnetizers.
- Since workpieces are demagnetized while they are kept stationary on the demagnetizer, it is not necessary to move workpieces, press die materials, SK materials, etc. as when using an AC demagnetizer. Thus, this model is suitable for demagnetization of large workpieces (e.g. molds) that are difficult to move.
- Since demagnetization is carried out according to the attenuation pattern programmed in the control unit, electricity needs to be applied only during demagnetization, thus saving electricity.
- The demagnetizer itself and the control unit are installed separately. Thus, they can be installed in an easy-to-operate place.

**Main unit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Demagnetizing Area</th>
<th>Withstand Load</th>
<th>Electrical Rating</th>
<th>Working Rate</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMD1212</td>
<td>230 (9.10)</td>
<td>120 (4.72)</td>
<td>206 (8.09)</td>
<td>180 VDC/2.5A</td>
<td>120 (4.72)</td>
<td>15kg/33 lb</td>
</tr>
<tr>
<td>KMD2525</td>
<td>400 (15.7)</td>
<td>250 (9.84)</td>
<td>380 (14.95)</td>
<td>206 (8.09)</td>
<td>250 (9.84)</td>
<td>75kg/163 lb</td>
</tr>
<tr>
<td>KMD4040</td>
<td>640 (25.2)</td>
<td>350 (13.75)</td>
<td>600 (23.24)</td>
<td>306 (11.73)</td>
<td>600 (23.24)</td>
<td>150kg/330 lb</td>
</tr>
</tbody>
</table>

The withstand load is based on a uniform load in the work area.

**Applicable control unit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Power</th>
<th>Output</th>
<th>Mass</th>
<th>Applicable Main Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHD-W205B</td>
<td>10 (0.45)</td>
<td>230</td>
<td>10 (0.45)</td>
<td>230 (9.10)</td>
<td>230 (9.10)</td>
</tr>
<tr>
<td>EHD-W210B</td>
<td>14 (0.55)</td>
<td>230</td>
<td>14 (0.55)</td>
<td>230 (9.10)</td>
<td>230 (9.10)</td>
</tr>
</tbody>
</table>

KMD-1212/2525/4040 dimensions.

KMDE-1212/2525/4040 dimensions.

EHD-W205B, EHD-W210B dimensions.
Model **KMDP**

**PEN TYPE DEMAGNETIZER**

For both AC and DC

![Image of KMDP Pen Type Demagnetizer]

- **[Application]** Recommended where magnetism on the surface of metallic workpieces in general needs to be reduced in a limited area or locally. This is useful to completely eliminate weak magnetism that remains locally in jigs and workpieces after they have been demagnetized by a large demagnetizer. It is also useful for demagnetizing cutters of machines and punches and guide pins of press dies while they are mounted.

- **[Features]**
  - Compact and powerful as a rare earth magnet having strong magnetic force is used at the end of the rotary magnetic field.
  - A rechargeable battery is used as a power source of the motor. No need to replace the battery. Power can also be supplied with the included AC adapter if the battery has reached its life.
  - Simple construction and simple appearance.
  - An environment friendly nickel hydrogen battery is used.

<table>
<thead>
<tr>
<th>Model</th>
<th>Battery Rating</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMDP-16A</td>
<td>2.4V/2000mAh</td>
<td>0.3kg/0.6 lb</td>
</tr>
</tbody>
</table>

*The AC adapter (input 100 VAC, 50/60 Hz, output 2.7 VDC, 0.5 A, cord length 1.9 m) is included as a standard accessory.

Model **KMDH**

**HANDY TYPE DEMAGNETIZER**

![Image of KMDH Handy Type Demagnetizer]

- **[Application]** Suitable for demagnetizing tools such as drills, cutting tools, cutters and magnetized slide calipers. These can also be used for demagnetizing large steel plates partially.

- **[Features]**
  - Compact and handy.
  - Working rate 70% ED (Power on 7 minutes and pause 3 minutes)

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Source</th>
<th>Source Capacity</th>
<th>Effective Demag. Width</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMDH-5A</td>
<td>Single-phase 100 VAC, 50/60 Hz</td>
<td>70VA</td>
<td>50 (1.96)</td>
<td>Width: 86 (3.38) Length: 106 (4.17) Height: 119 (4.69)</td>
<td>2.3kg/6.1 lb</td>
</tr>
</tbody>
</table>

*The height is up to the grip. 9.2 m cord is included. The plug is provided with a ground pin. A different-voltage-type (special type) is also available. The power plug is of tracking resistance type.

Model **KMDH-P**

**PINPOINT TYPE DEMAGNETIZER**

![Image of KMDH-P Pinpoint Type Demagnetizer]

- **[Application]** An alternating field is produced at the tip and bottom by an AC power source, which is brought into contact with a workpiece and then moved away. Then the magnetic flux density on the surface is reduced locally. This demagnetizer works effectively in demagnetizing molds and large materials partially.

- **[Features]**
  - Since this demagnetizer produces a strong magnetic field at the tip, it can effectively demagnetize places that are difficult to demagnetize with a conventional table type or handy type demagnetizer.
  - The magnetizing effect is powerful, but the attracting force is not strong. Thus, the tip can be brought into contact with a small area for easy handling.
  - A thermo label is attached to the tip part, which warns a temperature rise due to frequent, repeated use. When the thermo label appears, stop using the demagnetizer until it goes out.

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Source</th>
<th>Source Capacity</th>
<th>Working Rate</th>
<th>Effective Demag. Width</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMDH-P21</td>
<td>Single-phase 100 VAC, 50/60 Hz</td>
<td>450VA</td>
<td>20% ED, 10 seconds max</td>
<td>Width: 3 (0.12) Length: 5 (0.20) Height: 6 (0.24)</td>
<td>3kg/6 lb</td>
<td></td>
</tr>
</tbody>
</table>

*The power plug is of tracking resistance type.

Model **KMDM**

**WHEELED MOBILE DEMAGNETIZER**

![Image of KMDM Wheeled Mobile Demagnetizer]

- **[Application]** Mobile demagnetizer to easily demagnetize large steel plates!

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Source</th>
<th>Power Capacity</th>
<th>Working Rate</th>
<th>Effective Demag. Width</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMDM-20</td>
<td>Single-phase 100 VAC, 50/60 Hz</td>
<td>320/250VAC/23A/2.5A (50-60Hz)</td>
<td>100% ED</td>
<td>Width: 130 (5.11) Length: 200 (7.91) Height: 99 (3.93) Width: 16 (4.56)</td>
<td>7kg/15.4 lb</td>
<td></td>
</tr>
</tbody>
</table>

*Power cord, 2 m, included. The power plug is of tracking resistance type.

Model **KMDC**

**TOOL DEMAGNETIZER**

![Image of KMDC Tool Demagnetizer]

- **[Application]** Demagnetization of magnetized tools such as drills, reamers and cutters and measuring instruments!

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Source</th>
<th>Source Capacity</th>
<th>Working Rate</th>
<th>Remote Operation</th>
<th>Effective Mag. Zone</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMDC-40</td>
<td>Single-phase 100 VAC, 50/60 Hz</td>
<td>75VA</td>
<td>20% ED</td>
<td>1 minute max.</td>
<td>ø 40 (1.57)</td>
<td>0.9kg/2 lb</td>
</tr>
</tbody>
</table>

*Cord length 2.5 m (with curled cord). The power plug is of tracking resistance type.

**How to use**

- **Power is applied only while the pushbutton switch is held pressed for demagnetization.**
- **Turn off the demagnetizer after moving it away more than 100 mm from the demagnetized object.**
- **If the demagnetizer is turned on frequently, the body temperature rises. If the temperature rises too high, it is indicated by an overheating alarm seal. Stop using it for a while.**
MEASURING INSTRUMENTS

Model TM

TESLA METER

Significant improvement of performance while keeping usability of TM-701!
New industry standard of handy type

[Application]
- Measurement of residual magnetism in machined parts, in stamped parts, and in demagnetized parts.
- Measurement of magnetic field in magnets and magnetism applied products.
- Measurement of magnetic flux of motors.
- Measurement of properties of magnetic materials.

Features of TM-801EXP (compared with TM-701)

Wider measuring range
- High resolution mode accuracy in measurement of DC magnetic flux density improved.
- Frequency covering range in measurement of AC magnetic flux density expanded. (40 ~ 500 Hz)

Max. 160 continuous hours of operational
- Sampling speed in HOLD mode increased by 1.5 times.
- Continuous operation time by use of a battery improved by 20% (130 hours → 160 hours).
- 3-way power supply usable: battery, AC adapter and USB feed.

PC operation simpler and more useful
- Digital output of measured data to PC by use of USB.
- Measurement commands controllable from PC by use of USB.
- PC free sample software renewed completely.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>TM-801EXP</th>
<th>TM-801AXL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object to detect</td>
<td>DC magnetic flux density</td>
<td>AC magnetic flux density</td>
</tr>
<tr>
<td>Unit of measurement</td>
<td>mT/G selection</td>
<td>AC magnetic flux density</td>
</tr>
<tr>
<td>Measurement range</td>
<td>0~3000.0mT</td>
<td>0~50.0mT</td>
</tr>
</tbody>
</table>
| Measurement mode | Measurement range | Resolution | Indication accuracy
| DC × 1° | 0~200.0 mT | 0.1 mT | ± (5% of reading + 3 digits) |
| DC × 10° | 0~300.0mT | 0.01mT | ± (5% of reading + 10 digits) |
| Indication accuracy | AC² | 0~150.0mT | 0.01mT | ± (5% of reading + 20 digits) |
| - | 150.1~1500.0mT | 0.1 mT | - |
| Operating temperature | -4~+40°C (104°F) | -4~+40°C (104°F) |
| Power source | Battery, AA (1.5V) x 4 pieces | 5~6 VDC (AC adapter/USB feed) |
| Dimensions | 140 (5.51) mm high x 64 (2.56) mm wide x 30 (1.18) mm thick |
| Mass | Approx. 250g (0.056 lb) (batteries & probes included) |
| Accessories | Probe, batteries, carrying case |
| Optional | Axial probe (TM-801 AXL) |
| Reference magnetic field | (TM-SMF / TM-AMF) |

*The measuring range is automatically selected. Note: This meter is not designed for measurement of electromagnetic waves.

Model TM

PROBE FOR TESLA METER

TM-801PRB

TM-801AXL(Optional)

[Application]
- Object to measure
- (An example of usage of TM-801 AXL)

[Features]
- Please keep this probe as a spare. It can be replaced without troublesome calibration. In addition to the standard PRB (transverse type), an axial type (AXL) capable of vertical measurement and having high durability is optionally available. (mm)

Model | Applicable Meter | Tip Dimensions | Code Length | Mass
---|---|---|---|---
TM-801PRB | TM-801EXP² | ø13.0x(0.018~0.036) | 1000 | 55 g
| TM-801AXL | TM-801EXP² | ø13.0x(0.018~0.036) | 1000 | 55 g

Model | Applicable Meter | Tip Dimensions | Code Length | Mass
---|---|---|---|---
TM-801PRB | TM-801EXP² | ø13.0x(0.018~0.036) | 1000 | 55 g

Model | Magnetic Flux Density | Dimensions | Mass
---|---|---|---
TM-SMF-005 | 0.001T - 3000 | 60 - 150 | Approx. 0.5g / 1.1g
TM-AMF-005 | 0.05 T / 5000 | 65 - 165 | Approx. 3.8g / 6.6g
TM-SMF-006 | 0.3 T / 30000 | 150 - 180 | Approx. 0.6g / 1.2g
TM-AMF-006 | 0.5 T / 5000 | 70 - 270 | Approx. 1.3g / 2.4g

Model | Magnetic Flux Density | Dimensions | Mass
---|---|---|---
TM-SMF-005 | 0.001T - 3000 | 60 - 150 | Approx. 0.5g / 1.1g
TM-AMF-005 | 0.05 T / 5000 | 65 - 165 | Approx. 3.8g / 6.6g
TM-SMF-006 | 0.3 T / 30000 | 150 - 180 | Approx. 0.6g / 1.2g
TM-AMF-006 | 0.5 T / 5000 | 70 - 270 | Approx. 1.3g / 2.4g

For calibration and daily check of Tesla Meter!

Model TM-SMF / TM-AMF

REFERENCE MAGNETIC FIELD FOR TESLA METER

For standard probe

- Suitable for TM-201 and later models

For axial type probe

- Suitable for TM-201 AXL, TM-701 AXL, TM-801 AXL

Model TM-SMF-050

[Application]
- Daily check of the Tesla Meter.
- When a calibration certificate of the reference magnetic field is obtained, the calibration of the Tesla Meter becomes economical.

[Features]
- The closed circuit construction employing a permanent magnet that causes less magnetic force leak is employed.
- Small and light weight.

Model | Magnetic Flux Density | Dimensions | Mass (mm)
---|---|---|---
TM-SMF-005 | 0.001T - 3000 | 60 - 150 | Approx. 0.5g / 1.1g
TM-SMF-006 | 0.05 T / 5000 | 65 - 165 | Approx. 3.8g / 7.1g
TM-SMF-007 | 0.1 T / 30000 | 150 - 180 | Approx. 0.6g / 1.2g
TM-SMF-008 | 0.5 T / 5000 | 70 - 270 | Approx. 1.3g / 2.4g

Model | Magnetic Flux Density | Dimensions | Mass (mm)
---|---|---|---
TM-AMF-005 | 0.001T - 3000 | 60 - 150 | Approx. 0.5g / 1.1g
TM-AMF-006 | 0.05 T / 5000 | 65 - 165 | Approx. 3.8g / 7.1g
TM-AMF-007 | 0.1 T / 30000 | 150 - 180 | Approx. 0.6g / 1.2g
TM-AMF-008 | 0.5 T / 5000 | 70 - 270 | Approx. 1.3g / 2.4g

*The magnetic flux density is a nominal value. The measurement sheet included with the product shows the actual measured value of the product.

INTERNATIONAL DEPARTMENT

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