**Model MT-A MAGSUPPORTER**

![Image of MT-A1 and MT-A4 models](image)

- **Application**
  - Suitable for mating and keeping stationary jointing parts of iron sheets and members during welding work.

- **Features**
  - Powerful holding by use of a high performance permanent magnet.
  - MT-A-2
    - Both inside and outside welding are possible.
    - Any desired holding angle can be set in a range of 45° and 135° (angle scale provided).
    - ON/OFF switchover function and V-groove provided.
  - MT-A-4
    - Any desired holding angle can be set in a range of 30° and 90° (angle scale provided).
    - Angle adjustment with a handle.
    - ON-OFF switchover function provided.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Holder Dimensions</th>
<th>Angle</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Width x 2</td>
<td>Length</td>
<td>Height</td>
</tr>
<tr>
<td>MT-A-2</td>
<td>800N (80kgf)</td>
<td>(1.96)</td>
<td>(2.30)</td>
<td>(2.16)</td>
</tr>
<tr>
<td>MT-A-4</td>
<td>1500N (150kgf)</td>
<td>(2.30)</td>
<td>(4.72)</td>
<td>(2.04)</td>
</tr>
</tbody>
</table>

*The holding power applies to SS400, thickness 10mm and ground surface.*

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**Model WK WELDING CLAMPERS**

![Image of WK-3A and WK-T3A models](image)

- **Application**
  - Suitable as holding tools for tentative installation and tack welding on such work sites of construction, bridge, ship building and piping.

- **Features**
  - The magnet part has a minimum but enough free rotating angle range for easy mounting on workpieces.
  - The exterior of the magnet holder part is made of aluminum to prevent adhesion of iron powder on the top and side faces.
  - Model WK-T3A has a construction that is highly resistant to heat.
  - These clamps have an enough mechanical strength to withstand rough handling.

**An example of usage**

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Temperature</th>
<th>Holding Power</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>WK-3A</td>
<td>60°C</td>
<td>1000N (100kgf) X 2</td>
<td>2.3kg/5.07 lb</td>
</tr>
<tr>
<td>WK-T3A</td>
<td>180°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The holding power applies to SS400, thickness 10mm and ground surface.*
**Model KM-W**

**MAGNETIC HOLDER**

Usable as a hinge of thin plates and simple jig for welding operations.

[Application]
Suitable for tentative holding during drilling and assembly.

[Features]
- Two magnets as a pair for easy angle setting.
- An angle scale provided. (KM-12W)
- The magnetic force can be turned on and off by operating the lever. (KM-12W)
- The V-groove allows the holder to be attached to certain poles and curved surfaces in addition to the flat surface. (KM-12W)

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Holder Dimensions</th>
<th>Angle</th>
<th>Length</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Width (mm)</td>
<td>Length (mm)</td>
<td>Height (mm)</td>
<td></td>
</tr>
<tr>
<td>KM-06W</td>
<td>200N (20kgf)</td>
<td>20 (1.02)</td>
<td>80 (3.93)</td>
<td>25 (0.98)</td>
<td>1.29</td>
</tr>
<tr>
<td>KM-12W</td>
<td>1300N (130kgf)</td>
<td>50 (1.96)</td>
<td>117 (4.60)</td>
<td>55 (2.16)</td>
<td>273</td>
</tr>
</tbody>
</table>

※The holding power applies to SS400, thickness: 10mm and ground surface.

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**Model KM-SA**

**HEXAGONAL MAGNETIC HOLDER**

These holders provide a strong holding power for tentative holding during welding and tentative assembly. These holders can also be used as a block.

[Features]
- The holding angle can be set to 45°, 90° and 135°.
- The small type is equipped with a pushbutton and the large type with a rotary handle for turning on and off the magnetic force.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Round Steel</td>
<td>Steel Plate</td>
<td></td>
</tr>
<tr>
<td>KM-SA</td>
<td>600<del>900N/60</del>90kgf</td>
<td>1200<del>1400N/120</del>140kgf</td>
<td>6.8kg/15lb</td>
</tr>
<tr>
<td></td>
<td>150<del>200N/15</del>20kgf</td>
<td>800<del>1000N/80</del>100kgf</td>
<td>4.9kg/11lb</td>
</tr>
</tbody>
</table>

※The holding power applies to iron plate, SS400, 10mm thickness, and ground-surface. Note: The holding power in the case of double-face attraction is for attraction on one face in the case of double-face attraction.

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**Model KM-S**

**HEXAGONAL MAGNETIC HOLDER**

Usable to temporarily hold and assemble workpieces during welding. These holders hold workpieces firmly.

[Features]
- The workpiece holding angle can be selected from 15°, 45°, 60°, 90°, 105° and 120°.
- The magnetic force can be turned on and off.
- The holding power on steel plates is about the same as when both faces of KM-S9 and S12 are used and at angles other than 105°, the holding power does not drop when two faces are used.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Steel Plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KM-S10</td>
<td>150<del>250N/15</del>25kgf</td>
<td>104(4.09) x 95(3.74) x 67(2.63)</td>
<td>0.9kg/2lb</td>
</tr>
<tr>
<td>KM-S13</td>
<td>250<del>450N/25</del>45kgf</td>
<td>132(5.19) x 120(4.72) x 73(2.87)</td>
<td>1.6kg/3.5lb</td>
</tr>
</tbody>
</table>

※The holding power applies to iron plate, SS400, 10mm thickness, and ground-surface.
**Model KM-S** SIMPLE HEXAGONAL HOLDER

**[Application]**
These holders are used for tack welding and tentative assembly during welding and assembly work. They can be used in wide applications as they hold round pipes and round steel.

**[Features]**
- The holding angle can be set to 45°, 90° and 135°.
- Compact and handy. Lower cost and simpler than the hexagonal holder KM-S.
- The concave attractive face can hold certain round steel.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Dia of round Steel</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM-S9</td>
<td>100–200N(10–20kgf)</td>
<td>90 (3.54) x 90 (3.54) mm</td>
<td>ø10 (0.39)</td>
<td>0.5kg/ 1.10 lb</td>
</tr>
<tr>
<td>KM-S12</td>
<td>250–400N(25–40kgf)</td>
<td>120 (4.72) x 120 (4.72) mm</td>
<td>ø14 (0.56)</td>
<td>1.2kg/ 2.64 lb</td>
</tr>
</tbody>
</table>

*The holding power applies to iron plate, SS400, 10mm thickness, and ground surface.*

**Model KM-TH** ANGLE CLAMP

**[Application]**
Usable to temporarily hold workpieces during tack welding and assembly. or to hold gauges and rulers.

**[Features]**
- All inclined sides provide strong magnetic force. Angles of 45°, 90° and 135° can be used.

**Model KM-TA** ANGLE CLAMP

**[Application]**
This clamp can be used for tentative holding and tentative assembly during welding to hold workpieces strongly. It can also be used as a block.

**[Features]**
- The V-groove on the attractive face enables this clamp to be used for materials having curved surfaces such as round steel and pipe in addition to flat materials.
- ON-OFF switchover function provided.
- Holding angle 90° only.

*The holding power applies to SS400, thickness 10mm and ground surface.*
**Model GS**

**GUIDE SCALE**

[**Application**]
Special guide tools for moving the torch while maintaining the height of the nozzle during gas welding.

[**Features**]
- A high performance permanent magnet holds the scale strongly.
- Model GS-1 allows scale up-down adjustment according to the height of the nozzle.
- Model GS-2 allows its magnetic force to be turned on and off with a lever for easy mounting and dismounting.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Mass (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS-1</td>
<td>200N (20kgf)</td>
<td>500 (19.6)</td>
<td>85 (3.34)</td>
<td>70 (2.75)</td>
<td>1.1kg/2.42 lb</td>
</tr>
<tr>
<td>GS-2</td>
<td>800N (80kgf)</td>
<td>400 (15.7)</td>
<td>68 (2.67)</td>
<td>60 (2.37)</td>
<td>2.3kg/5.07 lb</td>
</tr>
</tbody>
</table>

*GS-2 can be mounted and dismounted easily with a select lever.
*The holding power applies to SS400, thickness 10mm and ground surface.

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**Model HL-E**

**EARTH CLAMP**

[**Application**]
Capable of connecting earth terminals on a wide variety of faces.

[**Features**]
- A high performance permanent magnet is used for easy mounting and dismounting by “one-touch” operation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Current Capacity</th>
<th>Mass (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HL-10E</td>
<td>1600N (16kgf)</td>
<td>300A</td>
<td>1.5kg/3.30 lb</td>
</tr>
</tbody>
</table>

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**Model EMA**

**WELDING JIG**

[**Application**]
Jigs developed for automatic welding of steel plates to hold steel plates and backing materials. These jigs can be used to hold cut-out pieces during EPM welding operations, to straighten workpieces and to secure stacked steel plates during fusing of stacked steel plates.

[**Features**]
- Holding and releasing can be controlled electratically.
- Workpieces are secured to a welding frame by a strong magnetic force and therefore warping of steel plates due to welding heat can be prevented.
- Waterproof construction for use for outdoor operations. Highly resistant to impact and heat.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Power Source</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMA-25-A</td>
<td>20N (2kgf)</td>
<td>165 (6.5)</td>
<td>120 (4.72)</td>
<td>1.0A</td>
</tr>
<tr>
<td>EMA-25-C</td>
<td>25N (2.5kgf)</td>
<td>170 (6.67)</td>
<td>150 (5.90)</td>
<td>1.7SA</td>
</tr>
</tbody>
</table>

---

**Model WKS**

**WELDING JIG**

[**Application**]
Electromagnetic device, which can easily adjust positioning during temporary welding work of iron plates.

[**Features**]
- It can be attracted at the meeting point by a turn of the switch.
- Amending work can be done easily by inserting an arrow end point.
- Series of WKS-26 and 30 is supplied with wheel for its easy moving.
- WKS-15 type is handy type which is easily to move or handled manually at working site.
- Supplied with a rectifier.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Power Source</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WKS-16BA</td>
<td>6N (0.6kgf)</td>
<td>162 (6.37)</td>
<td>185 (7.29)</td>
<td>0.5A</td>
</tr>
<tr>
<td>WKS-26BA</td>
<td>20N (2kgf)</td>
<td>256 (10.1)</td>
<td>243 (9.57)</td>
<td>1.5A</td>
</tr>
<tr>
<td>WKS-30BA</td>
<td>25N (2.5kgf)</td>
<td>286 (11.6)</td>
<td>220 (8.66)</td>
<td>1.5A</td>
</tr>
</tbody>
</table>