Model MPV-MF  
**MULTI-PURPOSE FLEXIBLE HOLDER**

**Flexible usage! Convenient multi-clamper!!**

![Image of MPV-MF holder](image)

**An example of usage**

- Suitable for auxiliary clamping of parts or tools during machining or assembling work.
- Also usable for holding a mirror, penlight, sensor, etc.

**Features**

- A diversified design of metal parts at the tip makes this holder usable in a very wide range of application.
- In addition to the main clamer, a φ6 shaft and φ8 shaft are mountable. Tip of flexible tube: M6 male thread, tip of pole: M5 female thread.
- Parts replaceable with other parts that match these thread sizes.
- The use of a magnetic holder base that is equipped with an ON/OFF function facilitates mounting and demounting.

### Parts available individually

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Allowable Weight to Hold (Ref.)</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPV-MF30</td>
<td>784N (80kgf)</td>
<td>0.6kg/1.32 lb</td>
<td>1.4kg/3.08 lb</td>
</tr>
</tbody>
</table>

*The clamer is sold with pole B also.
*The clamer can clamp workpieces of 28 mm or less in width.

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Model MPV-CL  
**FLEXIBLE CLAMP**

![Image of MPV-CL clamp](image)

**[Application]**

- Suitable for soldering of circuit boards of electric parts.
- Suitable for holding parts during assembly.
- Suitable for wiring as it can clamp electric cables.

**Features**

- The employment of a powerful ON/OFF selectable magnetic holder facilitates mounting on an iron work table and work table of machine tools.
- The clamp part is equipped with a tough plastic clamper and can be tilted freely.
- The clamer opens 28 mm maximum and can be moved up and down in a range of about 90 mm.

### Parts available individually

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPV-CL30</td>
<td>1000N (100kgf)</td>
<td>2.7kg/6.0 lb</td>
</tr>
</tbody>
</table>

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

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Model MPV-F  
**FLEXIBLE VICE**

![Image of MPV-F vice](image)

**[Application]**

- Suitable for temporarily holding workpieces during assembly. Also suitable for such jobs as hand filing and drilling and tapping of nonmagnetic materials.

**Features**

- The employment of a powerful ON/OFF selectable magnetic holder facilitates mounting on an iron work table and work table of machine tools.
- The vice can be tilted freely to secure workpieces according to their shapes and machining directions.
- The plates on the workpiece clamping parts are made of nylon to hold non-flat workpieces strongly.

### Parts available individually

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPV-F50A</td>
<td>1000N (100kgf)</td>
<td>2.7kg/6.0 lb</td>
</tr>
</tbody>
</table>

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

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Model MPV  
**MAGVICE**

![Image of MPV clamp](image)

**[Application]**

- Suitable for securing irregularly shaped workpieces or tapered workpieces and for machining end faces of round bars and flat workpieces.

**Features**

- The force to secure a workpiece is generated by a magnetic force. Thus, unlike mechanical clamping, no undue force is applied.
- (Nonmagnetic workpieces cannot be held.)
- The select handle can be operated on both sides.
- Can be mounted on a magnetic chuck on a machine tool.

- Magnetic force: Side slip resistance is 575 N (57.5 kgf) for iron square bars of 30 mm × 30 mm × 130 mm and 480 N (48 kgf) for iron round bars of φ30 × 130 mm thanks to the powerful built-in permanent magnet. Thus, the MAGVICE works well in grinding operations also.
- Mass: 7.3 kg / 16.01 lb

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### Holding Tools

- **ELECTROMAGNETIC CHUCKS**
- **PERMANENT MAGNETIC CHUCKS**
- **BLOCKS**
- **VACUUM CHUCKS**
- **PROPELLER SYSTEM**
- **SINE BAR BLOCKS**
- **HOLDING TOOLS**
- **MEASURING TOOL HOLDERS**
- **MAGNETIC TOOLS**
**Model NH**

**MAGNETIC TYPE NOZZLE HOLDER**

- **Increased holding power!!**
- **Flexible in all directions!!**

**NH-SH1 nozzle tip** (flow rate adjustable)

**NH-P3**

**NH-P1**

An example of usage

An example of NH-M1 usage

- **Model**
  - NH-P1: 245N (25kgf)
  - NH-P3: 490N (50kgf)
  - NH-M1: 245N (25kgf)
  - NH-M3: 490N (50kgf)
  - NH-SH1: 245N (25kgf)

- **Features**
  - Compared with conventional products, flexibility has been extremely improved. The flexible part can be bent freely. (NH-M1, M3)
  - By employing a metallic flexible part, the holding posture is maintained stably even when releasing high pressure air or a large amount of cutting fluid. In addition, it is highly resistant to thermal damage by chips and its durability has been improved. (NH-M1, M3)
  - The powerful magnet enables the holder to be mounted in any position easily.
  - The nozzle tip can be positioned in any posture and at any angle. The holder is equipped with a valve to enable adjustment of the flow rate.
  - The adjustable hose can be adjusted in length by removing or adding joints. (NH-P)
  - The employment of a copper pipe flexible part has increased the holding power twice as large as the conventional model (NH-M1). The posture of the flexible part can be maintained even when releasing high pressure air. (NH-SH1)
  - The flow rate can be adjusted at the nozzle tip. (NH-SH1)
  - The flexible part can be mounted on a conventional magnet by using a screw conversion joint. (NH-SH1)

**Model MDR**

**MAGNETIC DRESSER**

- **Model**
  - MDR-1C: 800N (80kgf)

- **Features**
  - A dressing tool for grinding wheels.
  - The dresser can be held firmly on a powerful magnetic holder base. Setting up is easy and reliable.

**Application**

A dressing tool for grinding wheels. The dresser can be held firmly on a powerful magnetic holder base. Setting up is easy and reliable.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Dresser Shaft Dia.</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Width</td>
<td>Length</td>
<td>Height</td>
</tr>
<tr>
<td>MDR-1C</td>
<td>800N (80kgf)</td>
<td>50 (1.96)</td>
<td>58.5 (2.30)</td>
<td>55 (2.16)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>φ 11 (0.43) and φ 12 (0.47)</td>
</tr>
</tbody>
</table>
Model YS WORK SUPPORTER*

Nonmagnetic workpiece supporter

![YS-10 and YS-15A models]

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (mm/in)</th>
<th>Mass (g/lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YS-10</td>
<td>Length 100 (3.93)</td>
<td>100/0.22 lb x 2</td>
</tr>
<tr>
<td>YS-15A</td>
<td>Length 150 (5.90)</td>
<td>165/0.36 lb x 2</td>
</tr>
</tbody>
</table>

For all models, two pieces make one set.

[Application]
These supporters can hold materials having weak magnetic properties such as carbide and materials such as aluminum, brass and stainless steel which cannot be held by magnetic chucks. They are held by a strong spring force on both sides and secured to the magnetic chuck.

[Features]
- These supporters are thin and therefore can be used for relatively thin workpieces.
- One set consists of two supporters.

Model MV MINI V-ADAPTER

![MV-1 mini v-adapter]

[Application]
This adapter itself is not magnetic, but when it is placed on a V-holder having the N pole and S pole on separate sides like Model KVA, it induces magnetism to hold small diameter workpieces that cannot be physically mounted directly. (See the figure below.) This adapter is recommended for holding workpieces during grinding, drilling and measurement.

[Features]
- The attractive face can be set to any angle between 90 and 180 degrees.
- The hinge part acts as a separator to divide magnetic poles.

Model MP MAGPAD*

![MP-1, MP-2, MP-3 models]

M5 screws can be used to detach the Magpad from the workpiece.

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (mm/in)</th>
<th>Mass (g/lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-1</td>
<td>Width 26 (1.02)</td>
<td>35/0.07 lb</td>
</tr>
<tr>
<td>MP-2</td>
<td>Width 56 (2.20)</td>
<td>70/0.15 lb</td>
</tr>
<tr>
<td>MP-3</td>
<td>Width 86 (3.38)</td>
<td>110/0.24 lb</td>
</tr>
</tbody>
</table>

*The holding power is based on a test piece of SS400, 20 mm thick, ground surface.

[Application]
The Magpad is a device to prevent wire breakage by heat due to aerial discharge. It protects wire electrodes of wire electric discharge machines from scattering of coolant which is likely to occur at the start of discharging. This Magpad can also be used to prevent dislocation or falling of cut-out pieces at the start or end of cutting.

[Features]
- The Magpad is made of transparent acrylic plate incorporating powerful magnets. The Magpad has strong holding power and enables it to set a wire while monitoring its position visually.
- No mechanical clamp is required. Attaching and detaching can be done efficiently and without a fear of damaging workpieces.
- Various models are available to suit any workpiece shapes.
- There is no fear of rusting and the magnetic force is semi-permanent. The Magpad withstands repeated use and therefore is very economical.
Model **KRS**

**HANDY SUPPORT JACK “RISING”**

**Patented**

Supporting the overhanging portion of workpiece

Supporting the hollow portion during grinding

**[Application]**
Suitable for supporting the overhanging portion of workpieces during machining and measurement.

**[Features]**
- The support bolt moves up and down as the movable bolt is turned. This design enables expansion/contraction or up/down movement quickly by one hand.
- Since the support bolt does not rotate, it does not damage workpieces when it contacts them.
- The movable/support bolts can be locked simultaneously by tightening the knop to enhance the work efficiency.
- If the knob is likely to be loosened by vibrations, use the included grub screw.
- The use of top and bottom two types of attachments (optional) expands the applications.

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**Main unit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Main Unit</th>
<th>Height</th>
<th>Allowable Load in F Direction</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRS-045</td>
<td>Φ 45 (1.77)</td>
<td>49.82 (1.92-3.22)</td>
<td>9.81kN</td>
<td>0.48kg/1.05 lb</td>
</tr>
</tbody>
</table>

* A grub screw is included.

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**<Top workpiece supporter(Optional)>**

**<Magnets for bottom part mounting(Optional)>**

**<Drain>**

A drain is provided on the mating surface with the body of the bottom part mounting magnet to discharge machining liquid that has entered the inside.

An example of use on horizontal machining center

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**<Magnets for bottom part mounting(Optional)>**

<table>
<thead>
<tr>
<th>Model</th>
<th>No.of Poles</th>
<th>Holding Power</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRS-M2</td>
<td>2</td>
<td>24.5N (2.8kgf)</td>
<td>Φ 45 (1.77) × 10 (0.39)</td>
<td>0.13kg/0.28 lb</td>
</tr>
<tr>
<td>KRS-M4</td>
<td>4</td>
<td>49N (5.6kgf)</td>
<td>Φ 45 (1.77) × 10 (0.39)</td>
<td>0.13kg/0.28 lb</td>
</tr>
</tbody>
</table>

* One hex. socket head bolt (M6 × 10) is included.

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**<Top workpiece supporter(Optional)>**

<table>
<thead>
<tr>
<th>Model</th>
<th>Shape</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRS-HQM</td>
<td>Sphare(3R50)</td>
<td>Φ 42 (1.65) × 10 (0.41)</td>
<td>0.13kg/0.28 lb</td>
</tr>
<tr>
<td>KRS-HVM</td>
<td>V-groove(120°)</td>
<td>Φ 42 (1.65) × 10 (0.41)</td>
<td>0.13kg/0.28 lb</td>
</tr>
</tbody>
</table>