**Model MPV-MF**

**MULTI-PURPOSE FLEXIBLE HOLDER**

Flexible usage! Convenient multi-clamper!! Design registered

**Application**
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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Allowable Weight to Hold (kg)</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPV-MF30</td>
<td>584N (80kgf)</td>
<td>0.64kg (1.42 lb)</td>
<td>1.04kg/2.30 lb</td>
</tr>
</tbody>
</table>

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

**Parts available individually**

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**Model MPV-CL**

**FLEXIBLE CLAMP**

**Parts available individually**

**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 clamper opens 28 mm maximum and can be moved up and down in a range of about 90 mm.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPV-CL30</td>
<td>1000N (100kgf)</td>
<td>2.76kg/6.0 lb</td>
</tr>
</tbody>
</table>

Note: 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**

**Parts available individually**

**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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPV-F50A</td>
<td>1000N (100kgf)</td>
<td>2.76kg/6.0 lb</td>
</tr>
</tbody>
</table>

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

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**Model MPV**

**MAGVICE**

**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 ø30 × 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
### Model NH

**MAGNETIC TYPE NOZZLE HOLDER**

**Parts available individually**

Flexible in all directions!!

An example of NH-M1 usage

An example of usage

<Tip nozzle>

(available separately)

**[Features]**

- Composed 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 any angle.
- The holder is equipped with a valve to easily adjust the flow rate.
- The adjustable hose can be adjusted in length by removing or adding joints. (NH-P)

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power (Nominal Size)</th>
<th>Inlet Dia.</th>
<th>Hose Length</th>
<th>No. of Outlets</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH-P1</td>
<td>250N (25kgf)</td>
<td>φ 7.0 (7.75 x 27 / 31)</td>
<td>390 (15.3)</td>
<td>1 pc</td>
<td>0.96g/2.1 lb</td>
</tr>
<tr>
<td>NH-P3</td>
<td>500N (50kgf)</td>
<td>φ 9.0 (8.87 x 54 / 12)</td>
<td>420 (16.5)</td>
<td>3 pcs</td>
<td>1.65g/3.6 lb</td>
</tr>
<tr>
<td>NH-M1</td>
<td>245N (25kgf)</td>
<td>φ 7.0 (7.75 x 31)</td>
<td>400 (15.7)</td>
<td>1 pc</td>
<td>0.95g/1.9 lb</td>
</tr>
<tr>
<td>NH-M3</td>
<td>400N (50kgf)</td>
<td>φ 9.0 (8.87 x 54 / 12)</td>
<td>400 (15.7)</td>
<td>3 pcs</td>
<td>1.98g/4.1 lb</td>
</tr>
</tbody>
</table>

Notes:
- Upper limit of pressure: Adjustable hose (NH-P1, P3): Air pressure 0.34 MPa, liquid pressure 0.2 MPa. Metallic flexible hose (NH-M1, M3): 0.6 MPa max. (Upper limit of flow rate: 10 liters/minute max.). However, depending on releasing angles, the posture of the hose may be changed by a jetting pressure even when the air/liquid pressure is below the upper limit. In such a case, turn the valve to reduce the flow rate.
- The hose length includes the stainless steel nozzle part (NH-P: 70 mm) at the tip.
- The holding power is based on a test piece of SS400, 10 mm thick, ground surface.
- The magnet section of NH and NHP is common. Therefore the upper section is interchangeable for mounting between NHM1 and NH-P.
- NH-M1, M3: Flexible part: φ 11 mm

**[Application]**

This holder is used to supply cutting fluid or air to machine tools. This can also be used to remove chips and particles produced during electric discharge machining by injecting cutting fluid.

### Model MDR

**MAGNETIC DRESSER**

The dresser is not included.

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power (Dimensions)</th>
<th>Dimensions (mm)</th>
<th>Dresser Shaft Dia.</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDR-1C</td>
<td>800N (30kgf)</td>
<td>Width 50 (1.96)</td>
<td>Height 55 (2.16)</td>
<td>1.2kg/2.6 lb</td>
</tr>
</tbody>
</table>

**[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.

**[Features]**

- The magnetic force can be turned on and off with the lever to facilitate mounting to and demounting from the machine table. (For setting on a magnetic chuck, power OFF the chuck and power ON this Dresser.)
- The dresser can be mounted at any angles.
- The dresser mounting clamp can be secured to either side or the top of the magnetic holder. (The photo shows the clamp mounted on the side.)

### Model MP

**MAGPAD* **

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Holding Power</th>
<th>Dimensions (mm)</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-1</td>
<td>200N (9kgf)</td>
<td>Width 66 (2.60)</td>
<td>35g/0.77 lb</td>
</tr>
<tr>
<td>MP-2</td>
<td>200N (9kgf)</td>
<td>Length 56 (2.20)</td>
<td>70g/1.58 lb</td>
</tr>
<tr>
<td>MP-3</td>
<td>250N (11kgf)</td>
<td>Height 9 (0.35)</td>
<td>110g/2.4 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 dissolution 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.