

HOLDING TOOLS

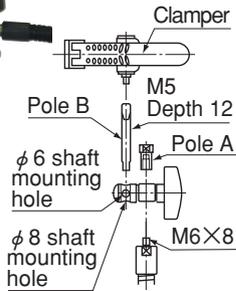
Model MPV-MF MULTI-PURPOSE FLEXIBLE HOLDER

Flexible usage! Convenient multi-clamper!!

Design registered



An example of usage



[Application]

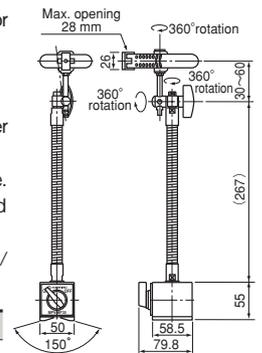
Suitable for auxiliary clamping of parts or tools during machining or assembling work.
Also usable for holding a mirror, penlight, sensor, etc.

[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 clamper, a $\phi 6$ shaft and $\phi 8$ 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.

| Model | Holding Power | Allowable Weight to Hold (Ref.) | Mass |
|----------|---------------|---------------------------------|---------------|
| MPV-MF30 | 784N (80kgf) | 0.6kg/1.32 lb | 1.4kg/3.08 lb |

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



Parts available individually

Model MPV-CL FLEXIBLE CLAMP

Parts available individually

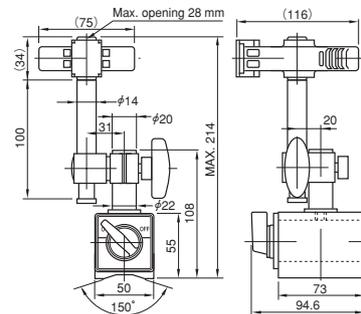


[Application]

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.



| Model | Holding Power | Mass |
|----------|----------------|--------------|
| MPV-CL30 | 1000N (100kgf) | 2.7kg/6.0 lb |

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

Model MPV-F FLEXIBLE VICE

Parts available individually

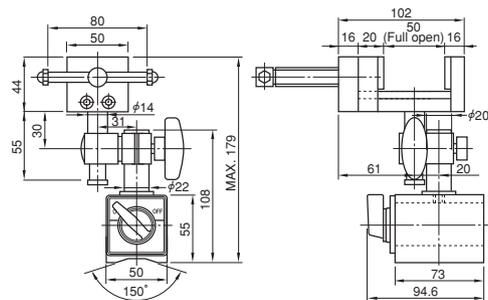


[Application]

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.



| Model | Holding Power | Mass |
|----------|----------------|--------------|
| MPV-F50A | 1000N (100kgf) | 2.7kg/6.0 lb |

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

Model MPV MAGVICE*

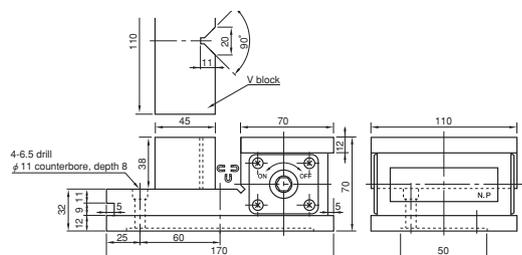


[Application]

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 $\phi 30 \times 130$ 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

ELECTROMAGNETIC CHUCKS
ELECTROMAGNETIC CHUCK CONTROLLERS
PERMANENT CHUCKS
PERMANENT CHUCKS
BLOCKS FOR MC
VACUUM CHUCKS
PROMELTA* SYSTEM
SINE BAR CHUCKS
BLOCKS, HOLDERS, MINI CHUCKS
HOLDING TOOLS
MEASURING TOOL HOLDERS
MAGNETIC HOLDERS
MAGNETIC TOOLS

Model NH MAGNETIC TYPE NOZZLE HOLDER

Parts available individually

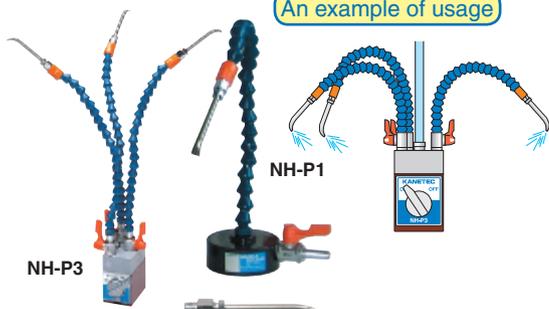
Flexible in all directions!!



NH-M1

An example of NH-M1 usage

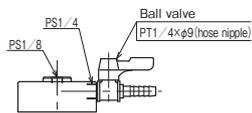
An example of usage



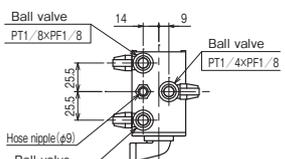
NH-P3

NH-P1

<Tip nozzle>
(Available separately)



NH-P1/NH-M1 Details of thread size



NH-P3/NH-M3 Details of thread size

[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 liquid.

[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)

| Model | Holding Power | Nominal Size | Inlet Dia. | Hose Length | No. of Outlets | Mass |
|-------|---------------|-----------------------------------|---------------|-------------|----------------|---------------|
| NH-P1 | 250N (25kgf) | φ 70 (2.75) × 27 (1.06) | φ 9 (0.35) | 390 (15.3) | 1 pc | 0.95kg/2.1 lb |
| NH-P3 | 500N (50kgf) | 48 (1.89) × 73 (2.87) × 54 (2.12) | | 420 (16.5) | 3 pcs | 1.65kg/3.6 lb |
| NH-M1 | 245N (25kgf) | φ 70 (2.75) × 31 (1.22) | | 400 (15.7) | 1 pc | 0.9kg/1.9 lb |
| NH-M3 | 490N (50kgf) | 48 (1.89) × 73 (2.87) × 54 (2.12) | | 400 (15.7) | 3 pcs | 1.9kg/4.1 lb |

※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-M and NH-P is common. Therefore the upper section is interchangeable for mounting between NH-M and NH-P.

※NH-M1, M3: Flexible part φ 11 mm

Model MDR MAGNETIC DRESSER



MDR-1C

The dresser is not included.

Holding power
800N

[Application]

A dressing tool for grinding wheels.

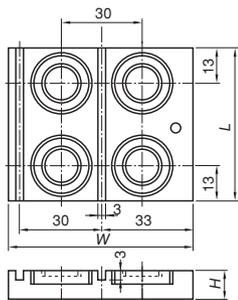
The dresser can be held firmly on a powerful magnetic holder base. Setting up is easy and reliable.

[Features]

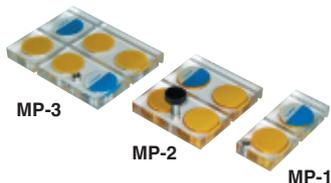
- The magnetic force can be turned on and off with the lever to facilitate mounting to and demounting from the machine table. (For setting on a magnetic chuck, power OFF the chuck and power ON this Dresser.)
- The dresser can be mounted at any angles.
- The dresser mounting clamp can be secured to either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

| Model | Holding Power | Dimensions | | | Dresser Shaft Dia. | Mass |
|--------|---------------|------------|-------------|-----------|-----------------------------|---------------|
| | | Width | Length | Height | | |
| MDR-1C | 800N (80kgf) | 50 (1.96) | 58.5 (2.30) | 55 (2.16) | φ 11 (0.43) and φ 12 (0.47) | 1.2kg/2.64 lb |

Model MP MAGPAD*



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



MP-3

MP-2

MP-1

[mm (in)]

| Model | Holding Power | Dimensions | | | Mass |
|-------|---------------|--------------|-----------|-------------|--------------|
| | | Width | Length | Height | |
| MP-1 | 80N (8kgf) | 66 (2.59) | 26 (1.02) | 9 (0.35) | 35g/0.07 lb |
| MP-2 | 200N (20kgf) | | 56 (2.20) | | 70g/0.15 lb |
| MP-3 | 250N (25kgf) | | 86 (3.38) | | 110g/0.24 lb |

※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.



ELECTROMAGNETIC CHUCKS
CHUCK CONTROLLERS
PERMANENT MAGNETIC CHUCKS
PERMANENT ELECTROMAGNETIC CHUCKS
BLOCKS FOR MC
VACUUM CHUCKS
PROMELTA* SYSTEM
SINE BAR CHUCKS
BLOCKS, HOLDERS, MINI CHUCKS
HOLDING TOOLS
MEASURING TOOL HOLDERS
MAGNETIC HOLDERS
MAGNETIC TOOLS