

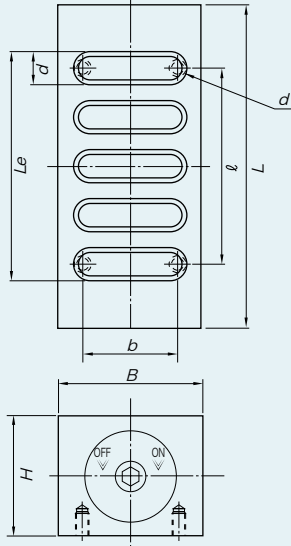
Model MMZ



MMZ-412



MMZ-614



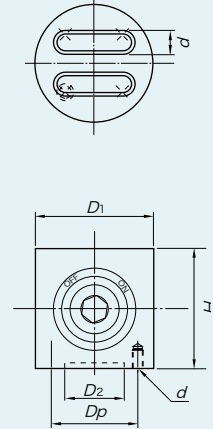
Model MMC



MMC-5



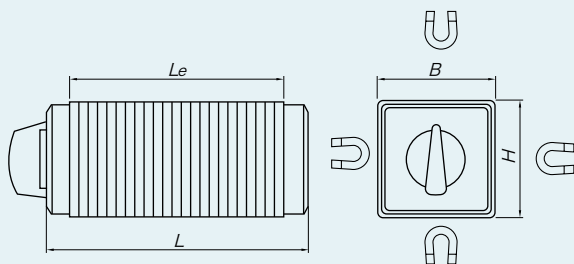
MMC-8



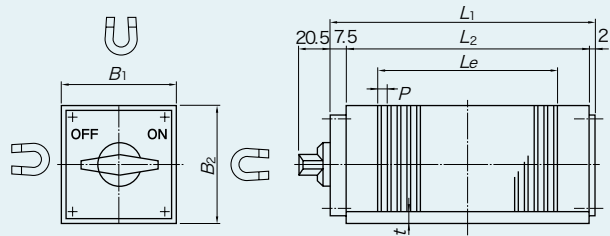
Model MMW



MMW-3F70A



Model MMXW



MMXW-611A

Magnetic Mini Chuck Model MMZ

[Application]

These chucks are used in combination with a magnetic chuck as an auxiliary holding tool for irregular-shaped workpieces in grinding and light-duty cutting.

They are of waterproof construction enabling them to hold workpieces in electric discharge machining fluid.

[Features]

- The magnetic force can be turned ON and OFF from either the front side or the rear side.
- The waterproof construction allows use in fluid.

[mm(in)]

| Model | Holding Power | Holding Face | | Pole Pitch | Mounting Face | | | Height | Handle Hole | Mass |
|---------|----------------|--------------|------------|---------------------------------|---------------|-----------|---------------------------------|-----------|---------------------|--------------|
| | | <i>B</i> | <i>L</i> | <i>P</i> | <i>b</i> | <i>ℓ</i> | <i>d</i> | <i>H</i> | | |
| MMZ-412 | 105N (10.5kgf) | 40 (1.57) | 115 (4.52) | 7.5 (1.5+6) 0.29 (0.05+0.23) | 30 (1.18) | 75 (2.95) | 4-M5 (0.19), depth 7 (0.27) | 40 (1.57) | Nominal 6 (0.23) | 1.3kg/2.8 lb |
| MMZ-614 | 400N (40kgf) | 60 (2.36) | 135 (5.31) | 10 (2+8) 0.39 (0.07+0.31) | 40 (1.57) | 80 (3.14) | 4-M6 (0.23), depth 10 (0.39) | 50 (1.96) | | 3.1kg/6.8 lb |

※ The holding power is based on a test piece of □50 x t25, S15C.

Magnetic Mini Chuck Model MMC

[Application]

These chucks are used in combination with a magnetic chuck as an auxiliary holding tool for irregular-shaped workpieces in grinding and light-duty cutting.

They can also be used for such applications as holding workpieces in advance to reduce the setup time. Thus they can be used for continuous grinding of small and thin workpieces.

[Features]

- These chucks are powerful with special construction using Alnico magnet steel.
- Although small, these chucks have an ON/OFF mechanism.

[mm(in)]

| Model | Holding Power | Holding Face | Pole Pitch | Mounting Face | | | Height | Handle Hole | Mass |
|-------|---------------|----------------------|---------------------------------|----------------------|----------------------|---------------------------------|-----------|------------------|--------------|
| | | <i>D₁</i> | <i>P</i> | <i>D_p</i> | <i>D₂</i> | <i>d</i> | <i>H</i> | | |
| MMC-5 | 85N (8.5kgf) | 50 (1.96) | 9.5 (1.5+8) 0.37 (0.06+0.31) | 35 (1.37) | 25 (0.98) | 4-M5 (0.19), depth 7 (0.27) | 50 (1.96) | Nominal 8 (0.31) | 0.7kg/1.5 lb |
| MMC-8 | 500N (50kgf) | 80 (3.14) | 10 (2+8) 0.39 (0.08+0.31) | 60 (2.36) | 50 (1.96) | 4-M6 (0.23), depth 10 (0.39) | 65 (2.55) | | 2.2kg/4.8 lb |

※ The holding power is based on a test piece of □50 x t25, S15C.

Magnetic Mini Chuck Model MMW

[Application]

These chucks have three attractive faces and can be used in combination with a magnetic chuck. They are suitable for determining angles of small workpieces and angle grinding.

[Features]

- Since these chucks have three attractive faces, one face may be used for mounting the chuck and other faces for holding workpieces.
- They have magnetic poles arranged at micro pitches to hold small workpieces.
- They are of waterproof construction.

[mm(in)]

| Model | Nominal Dimension | Holding Power | Dimension | | | | Pole Pitch | Squareness | Flatness | Mass |
|-----------|------------------------|---------------|----------------------|----------------------|----------------------|----------------------|-----------------------------------|------------|----------|--------------|
| | | | <i>B₁</i> | <i>B₂</i> | <i>L₁</i> | <i>L_e</i> | <i>P</i> | | | |
| MMW-3F50A | 55 (2.16) × 115 (4.52) | 600N (60kgf) | 55 (2.16) | 55 (2.16) | 125.5 (4.94) | 90.5 (3.56) | 1.5 (0.5+1.0) 0.05 (0.02+0.03) | 0.01 | 0.02 | 2.8kg/6.2 lb |
| MMW-3F70A | 70 (2.75) × 115 (4.52) | 900N (90kgf) | 70 (2.75) | 70 (2.75) | | | | | | 4.0kg/8.8 lb |

※ The holding power is based on a test piece of □50 x t25, S15C, ground surface, with nothing held on other faces.

Magnetic Mini Chuck Model MMXW

[Application]

These chucks are suitable for holding workpieces in such processes as grinding, boring, cutting, electric discharge machining, welding and assembly. Since four faces can hold workpieces simultaneously, they can be used as a magnet vice in a wide range of applications.

[Features]

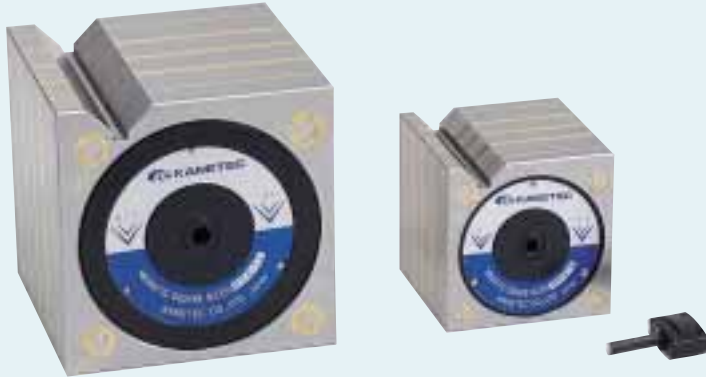
- These are unique universal mini chucks capable of holding workpieces on four faces.
- They can be used in such a way as to hold workpieces on the bed of machine tools or holding workpieces on the top and side faces simultaneously. They can also be used as a guide stopper to secure workpieces.
- The accuracy is as follows: flatness 0.01 mm, parallelism 0.02 mm, perpendicularity 0.03 mm.

[mm(in)]

| Model | Holding Power | | Dimension | | | Pole Pitch | Height | Mass |
|-----------|----------------------|--------------------|-----------|----------------------|------------|-----------------------------|-----------|--------------|
| | Two Face Holding | Full Face Holding | <i>B</i> | <i>L_e</i> | <i>L</i> | <i>P</i> | <i>H</i> | |
| MMXW-611A | 400N (40kgf) or over | 60N (6kgf) or over | 64 (2.51) | 112 (4.40) | 136 (5.35) | 4 (2+2) 0.15 (0.07+0.07) | 64 (2.51) | 3.5kg/7.7 lb |

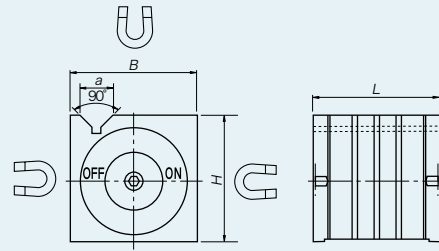
※ The holding power is based on a test piece of □50 x t25, S15C, ground surface, with nothing held on other faces.

Model KYA



KYA-13

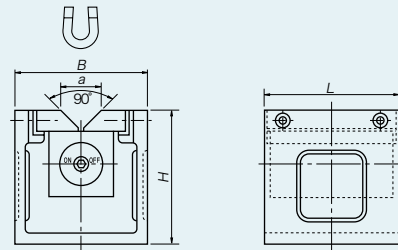
KYA-8



Model KYB



KYB-13



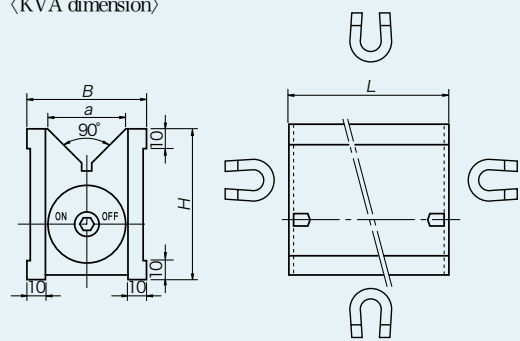
Model KVA



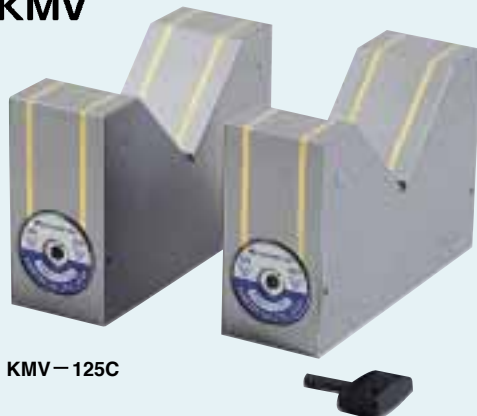
KVA-2

KVA-3

<KVA dimension>

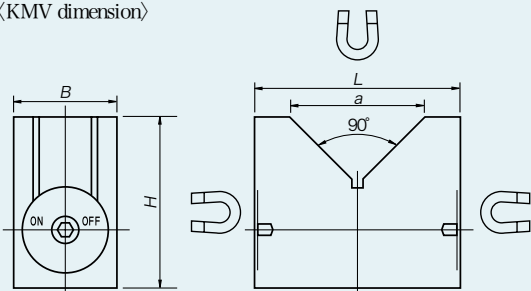


Model KMV



KMV-125C

<KMV dimension>



Square Type Magnetic Block Model KYA

[Application]

Holding tools for marking and light-duty machining.
Holding tools for electric discharge machining and wire cutting.
Holding tools for three-dimensional measuring instruments and various measuring systems.

[Features]

- The module design for light weight and easy handling.
- Workpieces can be held on three faces of top (V face) and both side faces.
- The magnetic force can be turned ON and OFF using a special T-handle (or hexagonal wrench key) on the front and the rear (two places). The handle mounting area is flat.
- They are of waterproof and oilproof construction.

| Model | Holding Power | Dimension | | | | Mass |
|--------|----------------------|------------|------------|------------|-----------|---------------|
| | | B | H | L | a | |
| KYA- 8 | 200N (20kgf) or over | 80 (3.14) | 80 (3.14) | 80 (3.14) | 20 (0.78) | 3.5kg/ 7.7 lb |
| KYA-13 | 350N (35kgf) or over | 125 (4.92) | 125 (4.92) | 125 (4.92) | 30 (1.18) | 14kg/31.1 lb |
| KYA-18 | 550N (55kgf) or over | 180 (7.08) | 180 (7.08) | 180 (7.08) | 38 (1.49) | 41kg/91.1 lb |

※ The holding power applies to the V-face and $\phi 20$ round bar.

Square Type Magnetic Block Model KYB

[Application]

Holding tools for marking and light remine machining.
Holding tools for electric discharge machining and wire cutting.
Holding tools for three-dimensional measuring instruments and various measuring systems.

[Features]

- The module design for light weight and easy handling.
- Workpieces can be held on one face of top (V face).
- The magnetic force can be turned ON and OFF using a special T-handle (or hexagonal wrench key) on the front and the rear (two places).
- They are of waterproof and oilproof construction.

| Model | Holding Power | Dimension | | | | Mass |
|--------|----------------------|------------|------------|------------|-----------|----------------|
| | | B | H | L | a | |
| KYB- 8 | 180N (18kgf) or over | 80 (3.14) | 80 (3.14) | 80 (3.14) | 30 (1.18) | 2.5kg/ 5.5 lb |
| KYB-13 | 400N (40kgf) or over | 125 (4.92) | 125 (4.92) | 125 (4.92) | 40 (1.57) | 8kg/17.7 lb |
| KYB-18 | 600N (60kgf) or over | 180 (7.08) | 180 (7.08) | 180 (7.08) | 50 (1.96) | 16.5kg/36.6 lb |

※ The holding power applies to the V-face and $\phi 20$ round bar.

Magnetic V-Holder Model KVA

[Application]

Holding tools for round bar marking, drilling, tapping and grinding of irregular-shaped workpieces.
Holding tools for electric discharge machining and wire cutting.
Holding tools for three-dimensional measuring instruments and various measuring systems.

[Features]

- The module design for light weight and easy handling.
- Workpieces can be held on the top face (V face), bottom face, front face and rear face.
- The magnetic force can be turned ON and OFF using a special T-handle (or hexagonal wrench key) on the front and the rear (two places). The handle mounting area is flat.
- They are of waterproof and oilproof construction.

| Model | Holding Power | Dimension | | | | Mass |
|-------|----------------------|-----------|-----------|------------|-----------|-------------|
| | | B | H | L | a | |
| KVA-1 | 300N (30kgf) or over | 60 (2.36) | 73 (2.87) | 80 (3.14) | 38 (1.49) | 2kg/4.4 lb |
| KVA-2 | 450N (45kgf) or over | | | 125 (4.92) | | 3kg/6.6 lb |
| KVA-3 | 700N (70kgf) or over | | | 180 (7.08) | | 4.5kg/10 lb |

※ The holding power applies to the V-face and $\phi 20$ round bar.

Magnetic V-Block Model KMV

[Application]

Holding tools for round bar marking and drilling.
Holding tools for electric discharge machining and wire cutting.
Holding tools for three-dimensional measuring instruments and various measuring systems.

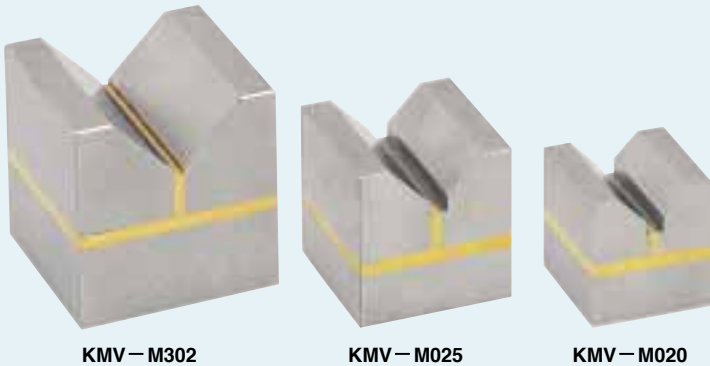
[Features]

- The module design for light weight and easy handling.
- Workpieces can be held on the top face (V face), front face and rear face.
- The magnetic force can be turned ON and OFF using a special T-handle (or hexagonal wrench key) on the front and the rear (two places). The handle mounting area is flat.
- They are of waterproof and oilproof construction.
- One set consists of two blocks.

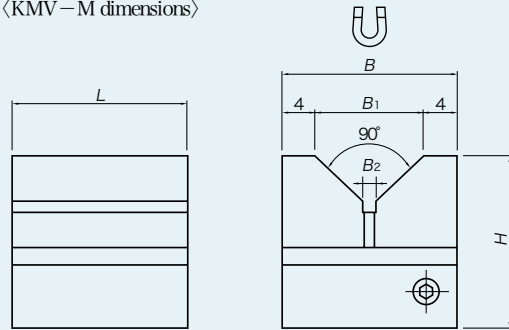
| Model | Holding Power | Applicable Diameter | Dimension | | | | Mass |
|----------|----------------------|---------------------|-----------|------------|------------|-----------|-----------------|
| | | | B | H | L | a | |
| KMV- 50C | 150N (15kgf) or over | $\phi 50$ (1.96) | 40 (1.57) | 50 (1.96) | 70 (2.75) | 36 (1.41) | 1kg/2.22 lb×2 |
| KMV- 80C | 200N (20kgf) or over | $\phi 80$ (3.14) | | 80 (3.14) | 100 (3.93) | 60 (2.36) | 2.3kg/5.06 lb×2 |
| KMV-125C | 230N (23kgf) or over | $\phi 125$ (4.92) | | 100 (3.93) | 150 (5.90) | 90 (3.54) | 4.5kg/10.0 lb×2 |

※ The holding power applies to the V-face and $\phi 20$ round bar.

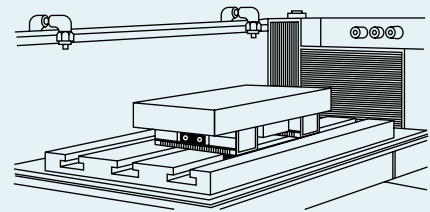
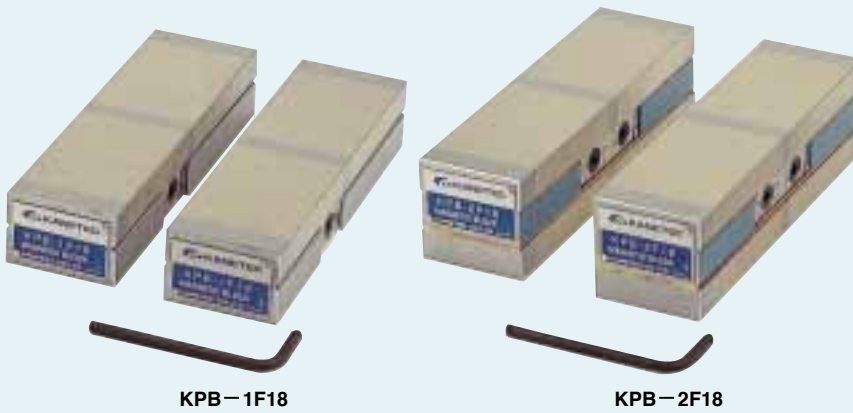
Model KMV-M



〈KMV-M dimensions〉

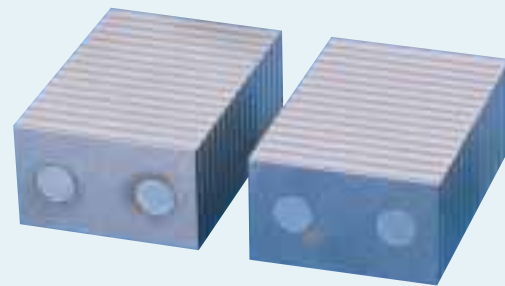


Model KPB

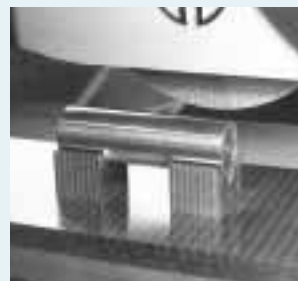
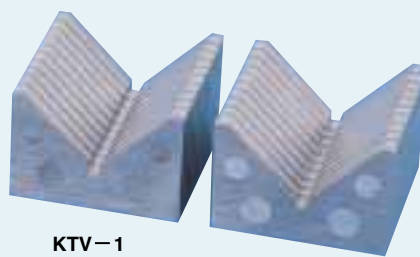


〈An example of usage of double-face attracting block〉

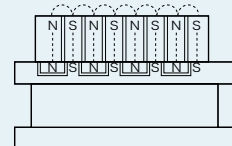
Model KT



Model KTV



〈An example of usage of KTV〉



Magnetic Mini V-Block Model KMV-M

[Application]

These blocks are used to hold small diameter round bars on optical measuring equipment (Non-waterproof type)

[Features]

- One set consists of two blocks. The attractive faces and other working faces are machined accurately. The blocks can be turned ON and OFF by 90° (-turn using a screwdriver on the back).

[mm (in)]

| Model | Holding Power | Applicable Diameter | Dimension | | | | | Mass |
|----------|---------------|---------------------|-----------|----------------|----------------|-----------|-----------|------------------|
| | | | B | B ₁ | B ₂ | H | L | |
| KMV-M020 | 9.8N (1kgf) | φ15 (0.59) | 20 (0.78) | 12 (0.47) | 1.4 (0.05) | 20 (0.78) | 20 (0.78) | 0.06kg/0.13 lb×2 |
| KMV-M025 | 19.6N (2kgf) | φ20 (0.78) | 25 (0.98) | 15 (0.59) | 2 (0.07) | 25 (0.98) | 25 (0.98) | 0.13kg/0.28 lb×2 |
| KMV-M032 | 49 N (5kgf) | φ25 (0.98) | 32 (1.25) | 20 (0.78) | 1.6 (0.06) | 32 (1.25) | 32 (1.25) | 0.24kg/0.53 lb×2 |

※The holding power applies to round steel φ10.

■The dimensional accuracy of KYA, KYB, KMV and KVA is ensured by the KANETEC standards. If a higher accuracy is required, please contact us.

■Module design: A design technique to combine base parts having common features and ranges (variations) to create a new part or unit.

Magnetic Block Model KPB

[Application]

These blocks can hold workpieces during electric discharge machining, wire cutting and grinding.

They can be used as holding tools for assembly and light-duty machining.

[Features]

- The both sides can hold workpieces and can be turned ON and OFF individually. (2F models)
- They are secured to the worktable by turning ON and OFF the magnet (2F models)
- The side faces (ON/OFF select faces) can also hold workpieces. (2F models)
- They are secured to the worktable using tapped holes provided on the mounting face. They can also be secured by having them held by a magnet chuck. (1F model)
- The operating areas are provided on both side faces to facilitate ON/OFF operation.
- Light weight for easy positional adjustment.
- The operating handle is removal and will not hinder the work.
- One set of two blocks has been machined and finished together.
- They are of waterproof and oilproof construction to allow them to be used in fluid.

■Dual face type 2F model

[mm (in)]

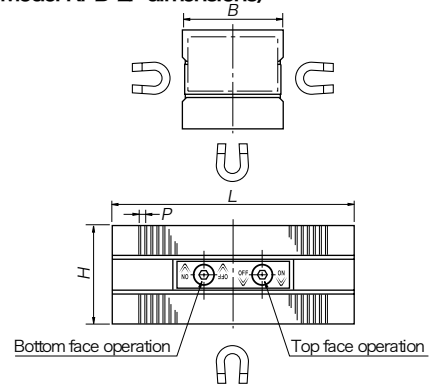
| Model | Nominal Dimension | Holding Power | Dimension | | | Pole Pitch P | Mass |
|----------|------------------------|---------------|------------|-----------------|-----------|---------------|----------------|
| | | | B | L | H | | |
| KPB-2F13 | 50 (1.96) × 125 (4.92) | 250N (25kgf) | 52 (2.04) | 125 (4.92) | 50 (1.96) | 1.5 (0.5+1.0) | 2.5kg/5.5 lb×2 |
| KPB-2F18 | 50 (1.96) × 180 (7.08) | 350N (35kgf) | | 180 (7.08) | | | 3.8kg/8.0 lb×2 |
| KPB-2F25 | 50 (1.96) × 250 (9.84) | 500N (50kgf) | 250 (9.84) | 5.0kg/11.1 lb×2 | | | |

■Single face type 1F model

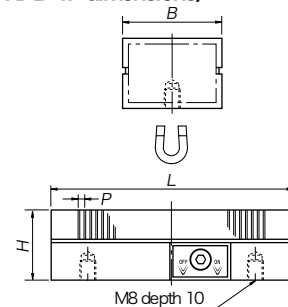
| Model | Nominal Dimension | Holding Power | Dimension B | Dimension L | Dimension H | Pole Pitch P | Mass |
|----------|------------------------|---------------|-------------|----------------|-------------|--------------|------|
| | | | | | | | |
| KPB-1F18 | 50 (1.96) × 180 (7.08) | 350N (35kgf) | 180 (7.08) | 2.2kg/4.8 lb×1 | | | |
| KPB-1F25 | 50 (1.96) × 250 (9.84) | 500N (50kgf) | 250 (9.84) | 3.1kg/6.8 lb×1 | | | |

※The holding power is when they hold an SS400, 20-mm thick workpiece (ground surface) over the whole area.

(Model KPB-2F dimensions)



(Model KPB-1F dimensions)



ChuckBlock Model KT/KTV

[Application]

These blocks are used in combination with a magnet chuck as an auxiliary tool to hold round bars and sheet-like workpieces that are difficult to hold on their side faces only by chucking.

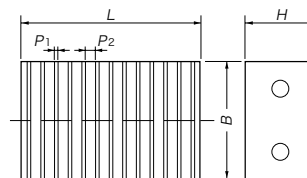
[Features]

- Since these blocks are not magnetized themselves, they are placed on a magnet chuck to induce magnetism to hold workpieces. Magnetism can be induced on two faces of top and side or V face and side.
- Specially-shaped workpieces can also be held by use of chuck blocks, thus making it possible to utilize your chucks in stock.
- One set of two blocks is finished together (except for KT-3 and -4).

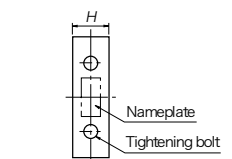
[mm (in)]

| Model | Dimension | | | Pole Pitch | | Mass |
|-------|------------|------------|----------------|----------------|----------------|-----------------|
| | B | L | H | P ₁ | P ₂ | |
| KT-1 | 70 (2.75) | 100 (3.93) | 41 (1.61) | 3.2 (0.12) | 3.2 (0.12) | 2.0kg/4.4 lb×2 |
| KT-2 | 45 (1.77) | 72 (2.83) | 22 (0.86) | 3 (0.11) | | 0.52kg/1.1 lb×2 |
| KT-3 | 125 (4.92) | 150 (5.90) | 38 (1.49) | 2 (0.07) | 4.5 (0.17) | 5.9kg/13.1 lb |
| KT-4 | | 304 (11.9) | 11.7kg/26.0 lb | | | |
| KTV-1 | 60 (2.36) | 65 (2.55) | 40 (1.57) | 3 (0.11) | 3.2 (0.12) | 0.78kg/1.7 lb×2 |

(KT-1~2)



(KT-3~4)



(KTV-1)

