

ELECTROMAGNETIC CHUCK CONTROLLERS
 PERMANENT MAGNETIC CHUCKS
 PERMANENT MAGNETIC CHUCKS
 BLOCKS FOR MC
 VACUUM CHUCKS
 PROMELTA SYSTEM
 SINE BAR CHUCKS
 INJECTION MOLDING MACHINE MOLD FIXTURE
 WORKING TOOLS
 MAGNETIC BLOCKS
 MEASURING TOOL HOLDERS
 MEASURING TOOLS

Model MMZ MAGNETIC MINI CHUCK

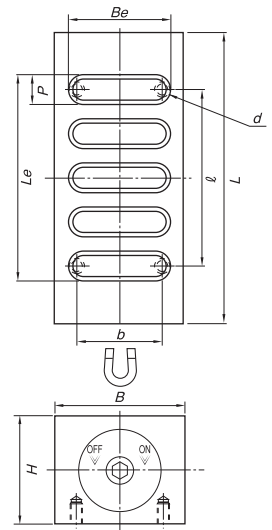


[Application]

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]

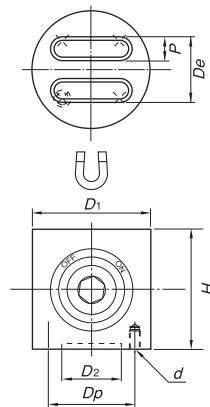
- The magnetic force can be turned ON and OFF from either the front side or the rear side.
- The waterproof construction allows use in fluid.



Model	Holding Power	Holding Face				Pole Pitch P	Mounting Face			Height H	Handle Hole	Mass
		B	L	B _e	L _e		b	ℓ	d			
MMZ-412	105N (10.5kgf)	40 (1.57)	115 (4.52)	29 (1.14)	84 (3.30)	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)	47 (1.85)	92 (3.62)	10 (2 +8) 0.39 (0.07+0.31)	40 (1.57)	80 (3.15)	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.

Model MMC MAGNETIC MINI CHUCK



[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 set-up 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.

Model	Holding Power	Holding Face		Pole Pitch P	Mounting Face			Height H	Handle Hole	Mass
		D ₁	D _e		D _p	D ₂	d			
MMC-5	85N (8.5kgf)	50 (1.96)	29 (1.14)	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	0.7kg/1.5 lb
MMC-8	500N (50kgf)	80 (3.15)	54 (2.12)	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)	(0.31)	2.2kg/4.8 lb

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

Model MMW MAGNETIC MINI CHUCK

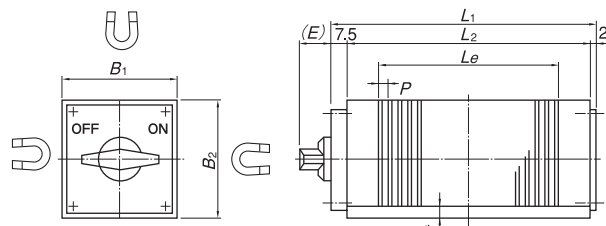


[Application]

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.



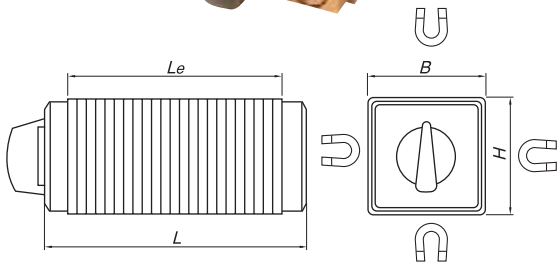
Model	Nominal Dimensions	Holding Power	Dimensions							Pole Pitch P	Squarness	Flatness	Mass
			B ₁	B ₂	L ₁	L ₂	E	L _e	t				
MMW-3F50A	55 (2.16) × 115 (4.52)	600N (60kgf)	55 (2.16)	55 (2.16)	125.5	115	20.5 (0.80)	90.5	10	1.5 (0.5+1.0)	0.01	0.02	2.8kg/6.2 lb
MMW-3F70A	70 (2.75) × 115 (4.52)	900N (90kgf)	70 (2.75)	70 (2.75)	(4.94)	(4.52)	25.5 (1.00)	(3.56)	(0.39)	0.05 (0.02+0.03)			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.

Model **MMXW** MAGNETIC MINI CHUCK



MMXW-611A



[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.

Model	Holding Power		Dimensions			Pole Pitch	Height	Mass
	Two Face Holding	Full Face Holding	B	Le	L	P	H	
MMXW-611A	400N (40kgf) or over	60N (6kgf) or over	64 (2.52)	112 (4.40)	136 (5.35)	4 (2+2) 0.15 (0.07+0.07)	64 (2.52)	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.

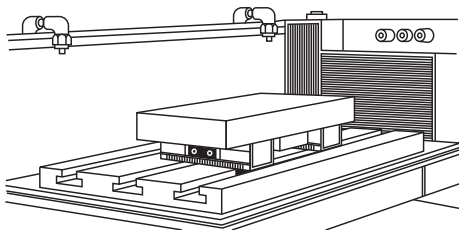
Model **KPB** MAGNETIC BLOCK



KPB-1F18

KPB-2F18

An example of usage of double-face attracting block



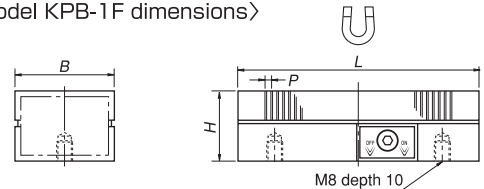
[Application]

These blocks can hold workpieces during electric discharge machining, and grinding. They can be used as holding tools for assembly and light-duty machining.

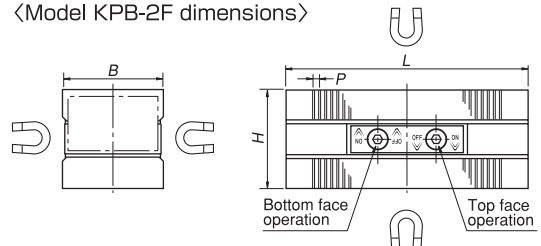
[Features]

- 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 dripproof and oilproof construction to allow them to be used in fluid.

<Model KPB-1F dimensions>



<Model KPB-2F dimensions>



■ Dual face type 2F model

Model	Nominal Dimension	Holding Power	Dimensions			Pole Pitch	Mass
			B	L	H	P	
KPB-2F13	50 (1.96) × 125 (4.92)	250N (25kgf)	52	125 (4.92)	50	1.5 (0.5+1.0)	2.5kg/ 5.5 lb×2
KPB-2F18	50 (1.96) × 180 (7.08)	350N (35kgf)	(2.04)	180 (7.08)	(1.96)	0.05 (0.02+0.03)	3.6kg/ 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

KPB-1F13	50 (1.96) × 125 (4.92)	250N (25kgf)	52	125 (4.92)	35	1.5 (0.5+1.0)	1.5kg/3.3 lb×1
KPB-1F18	50 (1.96) × 180 (7.08)	350N (35kgf)	(2.04)	180 (7.08)	(1.37)	0.05 (0.02+0.03)	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.

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Model MM FREE BLOCK

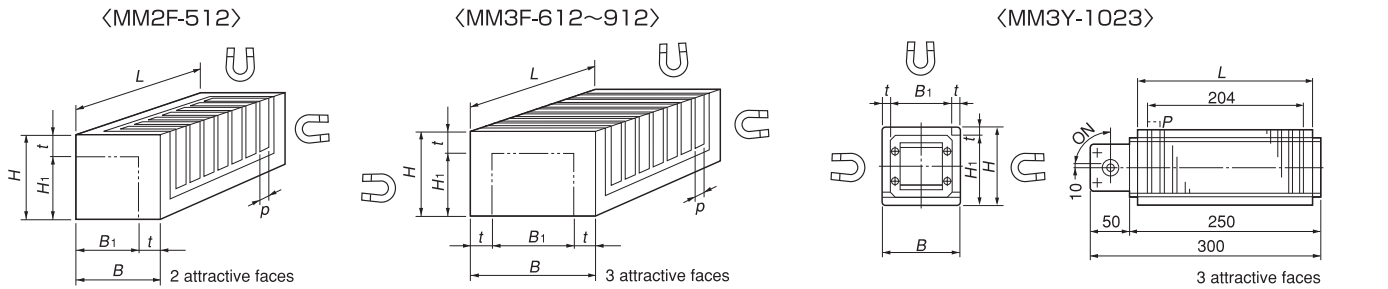
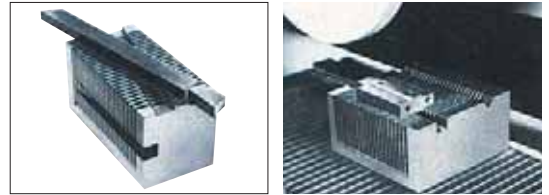
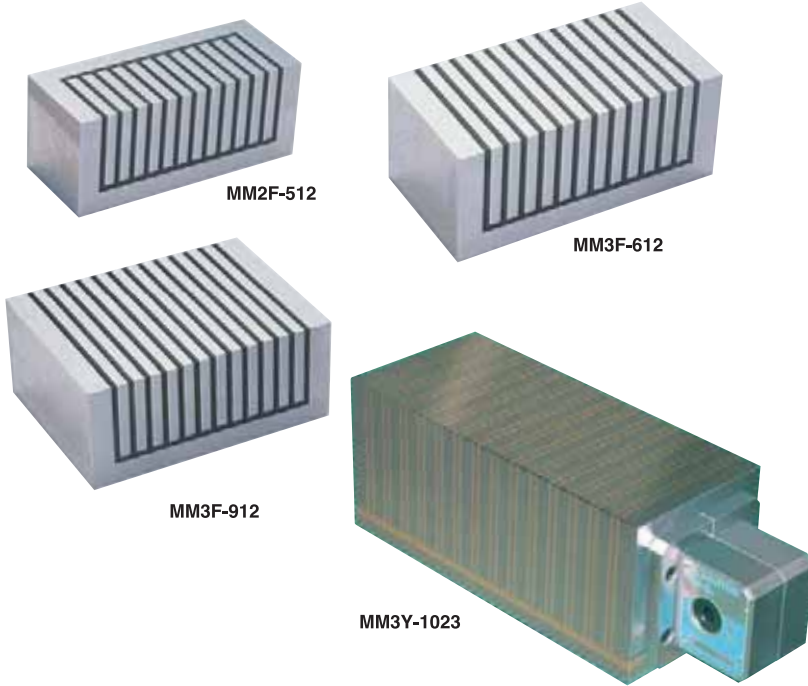
Freely workable permanent magnetic blocks

[Application]

These blocks are designed to allow deep engraving (machining by customer) such as grooves and steps on the magnetic attractive face to fit workpiece shapes when holding workpieces on these MM models.

[Features]

- The attractive face can be removed up to 10 mm deep from the surface of new blocks.
- As workpieces can be fitted in grooves, a large machining pressure can be used. Also cemented carbide workpieces, which are difficult to hold, can be held by using these blocks uniquely to enable grinding.
- These blocks can be mounted on the magnetic chuck work face.
- There are two types; a magnetic force ON-OFF type and a type not equipped with ON-OFF function.



Model	Nominal Dimension	Holding Power	Dimensions						Pole Pitch	Work Area	ON/OFF	Mass
			B	L	H	B ₁	H ₁	P				
MM2F- 512	50 (1.96) × 120 (4.72)	200N (20kgf)	50 (1.96)	120 (4.72)	50 (1.96)	40 (1.57)	40 (1.57)	8 (3+5)	Max.10 (0.39)	None	2kg/4.4 lb	
MM3F- 612	60 (2.36) × 120 (4.72)	400N (40kgf)	60 (2.36)			70 (2.75)					0.31 (0.11+0.19)	2.5kg/5.5 lb
MM3F- 912	90 (3.54) × 120 (4.72)	600N (60kgf)	90 (3.54)	230 (9.05)	100 (3.93)	80 (3.15)	90 (3.54)	15.2 (0.59)	Provided	Provided	3.5kg/7.7 lb	
MM3Y-1023	100 (3.93) × 230 (9.05)	750N (75kgf)	100 (3.93)			80 (3.15)					90 (3.54)	20kg/44 lb

*The holding power applies to S15C, □50 x t25, ground surface and is presented for reference only.

Block/holder accuracy

Model / Accuracy		KYA-8A		KYA-13A		KYA-18A		KYB-8		KYB-13		KYB-18		KVA-1A		KVA-2A		KVA-3A	
		Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special
Parallelism	Bottom face to top face	10	7	15	8	20	9	10	7	15	8	20	9	10	7	15	8	20	9
	Bottom face to V face			12		15		12		15		12		15					
	End face to end face			25		30		25		30		25		30					
	Side face to V face			20		20		20		20		20		20					
Flatness of bottom face		10		15		20		10		15		20		10		15		20	
Squareness	Bottom face to side face	20	10	25	12	30	14	20	10	25	12	30	14	20	10	25	12	30	14
	End face to V face	20		25		30		20		25		30							

(μm)

Model / Accuracy		KMV-50D		KMV-80D		KMV-125D	
		Standard	Special	Standard	Special	Standard	Special
Parallelism	Bottom face to top face	10	7	15	8	20	9
	Bottom face to V face			12		15	
	End face to end face			25		30	
	Side face to V face			20		20	
Flatness of bottom face		10		15		20	
Squareness	Bottom face to side face	20	10	25	12	30	14
	End face to V face	20		25		30	
Difference in height of V faces of a pair of blocks		7		8			

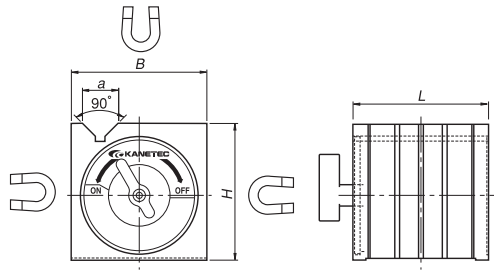
*When high accuracy is required, select "Special" accuracy models.

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Model KYA SQUARE TYPE BLOCK



KYA-8A



[Application]

Holding tools for marking and lightduty machining.
Holding tools for electric discharge machining.

Holding tools for three-dimensional measuring instruments and various measuring systems.

[Features]

- Workpieces can be held on three faces of top (V face) and both side faces.
- T-handle ON/OFF switch comes attached, but can be removed.
- They are of dripproof and oilproof construction.
- An M8 tapped hole is provided on the top for lifting (KYA-18 only).
- Super high accuracy finish is also available. Please contact us.

Model	Holding Power	Dimensions				Mass
		B	H	L	a	
KYA- 8A	200N (20kgf) or over	80 (3.14)	80 (3.14)	80 (3.14)	20 (0.78)	3.5kg/ 7.7 lb
KYA-13A	350N (35kgf) or over	125 (4.92)	125 (4.92)	125 (4.92)	30 (1.18)	14kg/30.8 lb
KYA-18A	550N (55kgf) or over	180 (7.08)	180 (7.08)	180 (7.08)	38 (1.49)	41kg/90.3 lb

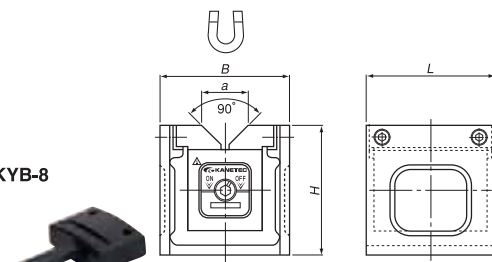
※ The holding power applies to the V-face and ϕ 20 round bar. ※For accuracy, see the table on page 51.

Model KYB SQUARE TYPE BLOCK



(Picture is old model for reference)

KYB-8



[Application]

Holding tools for marking and lightduty machining.
Holding tools for electric discharge machining.

Holding tools for three-dimensional measuring instruments and various measuring systems.

[Features]

- Workpieces can be held on one face of top (V face).
- T-handle ON/OFF switch comes attached, but can be removed.
- They are of dripproof and oilproof construction.
- Super high accuracy finish is also available. Please contact us.

Model	Holding Power	Dimensions				Mass
		B	H	L	a	
KYB- 8A	180N (18kgf) or over	80 (3.14)	80 (3.14)	80 (3.14)	30 (1.18)	2.5kg/ 5.5 lb
KYB-13A	400N (40kgf) or over	125 (4.92)	125 (4.92)	125 (4.92)	40 (1.57)	8kg/17.6 lb
KYB-18A	600N (60kgf) or over	180 (7.08)	180 (7.08)	180 (7.08)	50 (1.96)	16.5kg/36.3 lb

※ The holding power applies to the V-face and ϕ 20 round bar. ※For accuracy, see the table on page 51.

Model KVA MAGNETIC V-HOLDER



KVA-1A

KVA-2A

[Application]

Holding tools for round bar marking, drilling, tapping and grinding of irregular-shaped workpieces.

Holding tools for electric discharge machining.

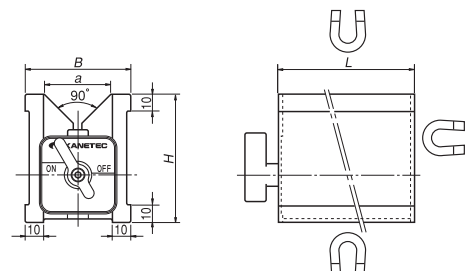
Holding tools for three-dimensional measuring instruments and various measuring systems.

[Features]

- Workpieces can be held on the top face (V face), bottom face, and rear face.
- T-handle ON/OFF switch comes attached, but can be removed.
- They are of dripproof and oilproof construction.
- Super high accuracy finish is also available. Please contact us.

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

※ The holding power applies to the V-face and ϕ 20 round bar. ※For accuracy, see the table on page 51.

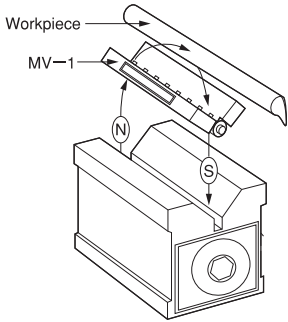


■The dimensional accuracy of KYA, KYB and KVA is based on Kanetec's in-house standard. When you need higher accuracy, please contact us.

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Model MV MINI V-ADAPTER

An example of usage



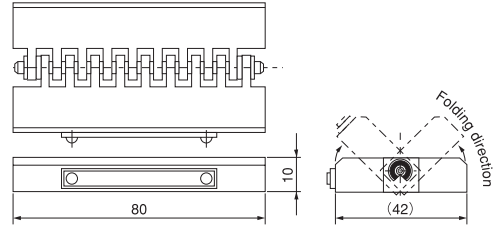
■ Model: MV-1 ■ Dimensions: 80 × (42) × 10 mm
■ Parallelism: 0.006 ■ Hardened

[Application]

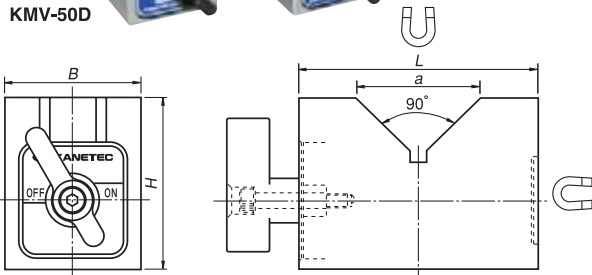
This product itself is not magnetic, but when it is placed on a V-Holder having the N pole and S pole on separate sides like Model KVA, it induces magnetism to hold small diameter workpieces that can not be physically mounted directly. (See the figure below.) This adapter is recommended for holding workpieces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

[Features]

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



Model KMV MAGNETIC V-BLOCK



[Application]

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

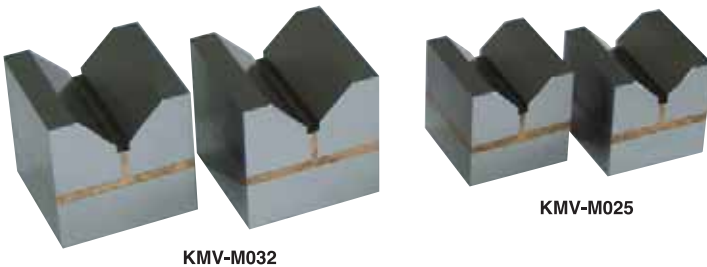
[Features]

- Workpieces can be held on the top face (V face), and rear face.
- T-handle ON/OFF switch comes attached, but can be removed.
- They are of dripproof and oilproof construction.
- One set consists of two blocks.
- Super high accuracy finish is also available. Please contact us.

Model	Holding Power	Applicable Diameter	Dimensions				Mass
			B	H	L	a	
KMV- 50D	150N (15kgf) or over	φ 50 (1.96)	40 (1.57)	50 (1.96)	70 (2.75)	36 (1.41)	1kg/2.2 lb×2
KMV- 80D	200N (20kgf) or over	φ 80 (3.14)	50 (1.96)	80 (3.14)	100 (3.93)	60 (2.36)	3kg/6.6 lb×2
KMV-125D	230N (23kgf) or over	φ125 (4.92)	100 (3.93)	150 (5.90)	90 (3.54)	90 (3.54)	5kg/11 lb×2

※ The holding power applies to the V-face and φ 20 round bar. ※ For accuracy, see the table on page 51.

Model KMV-M MAGNETIC MINI V-BLOCK

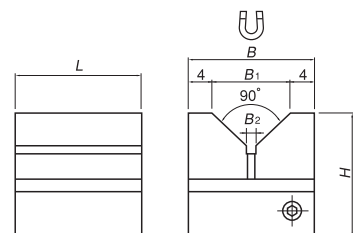


[Application]

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 have been machined accurately. The blocks can be turned ON and OFF by 90° turning using a screwdriver on the back.

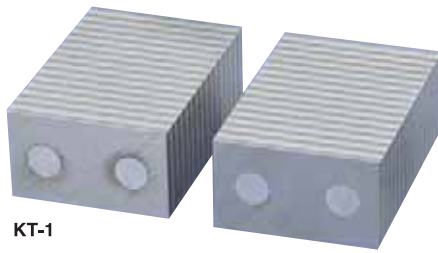


Model	Holding Power	Applicable Diameter	Dimensions					Mass
			B	B ₁	B ₂	H	L	
KMV-M020	9.8N (1kgf)	φ15 (0.59)	20 (0.78)	12 (0.47)	1.4 (0.05)	20 (0.78)	20 (0.78)	0.06kg/0.13 lb×2
KMV-M025	19.6N (2kgf)	φ20 (0.78)	25 (0.98)	15 (0.59)	2 (0.07)	25 (0.98)	25 (0.98)	0.13kg/0.28 lb×2
KMV-M032	49 N (5kgf)	φ25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

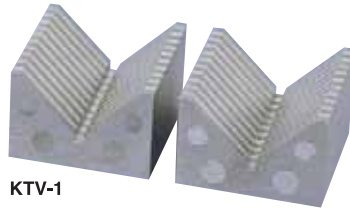
※ The holding power applies to round steel φ 10.

■ The dimensional accuracy of KMV is based on Kanetec's in-house standard. When you need higher accuracy, please contact us.

Model **KT·KTV** CHUCK BLOCK



KT-1



KTV-1



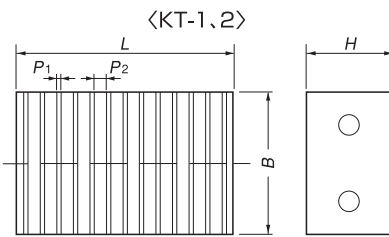
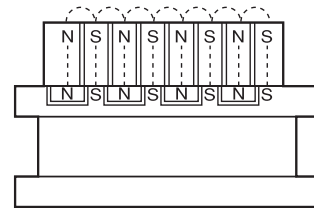
KT-4

[Application]

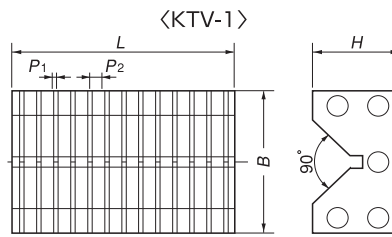
These blocks are used in combination with a magnetic chuck as an auxiliary tool to hold round bars and sheet-like workpieces that are difficult to hold on their side faces only by chucking.

[Features]

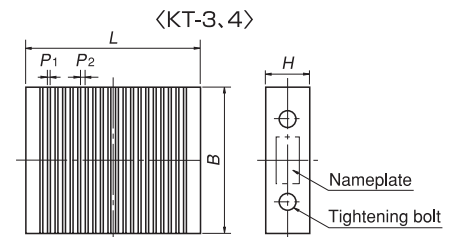
- Since these blocks are not magnetized themselves, they are placed on a magnetic chuck to induce magnetism to hold workpieces. Magnetism can be induced on two faces of top and side or V face and side.
- Specially-shaped workpieces can also be held by use of chuck blocks, thus making it possible to utilize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



<KT-1,2>

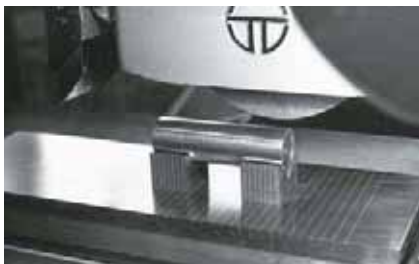


<KTV-1>



<KT-3,4>

An example of usage



Model	Dimensions			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)	
KT-2	45 (1.77)	72 (2.83)	22 (0.86)	3 (0.11)	0.37kg/0.8 lb×2	
KT-3	125 (4.92)	150 (5.90)	38 (1.49)	2 (0.07)	4.5 (0.17)	5.4kg/11 lb
KT-4		304 (11.9)				11.7kg/25 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

[mm (in)]

ELECTROMAGNETIC CHUCKS
CHUCK CONTROLLERS
PERMANENT MAGNETIC CHUCKS
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BLOCKS FOR MC
VACUUM CHUCKS
PROMELTA SYSTEM
SINE BAR CHUCKS
INJECTION MOLDING MACHINE MOLD FIXTURE
WORKING TOOLS
MAGNETIC BLOCKS
MEASURING TOOL HOLDERS
MEASURING TOOLS