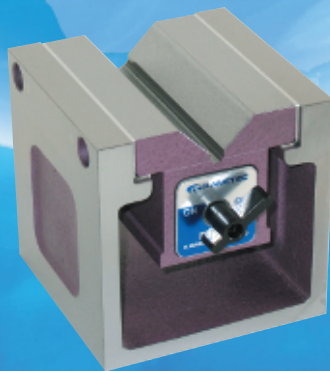


# MAGNETIC TOOLS & EQUIPMENT



## PRODUCTS GUIDE



# Lifting

## Lifma\* with Crane



Iron materials



[LPR-VN]



[LMU]



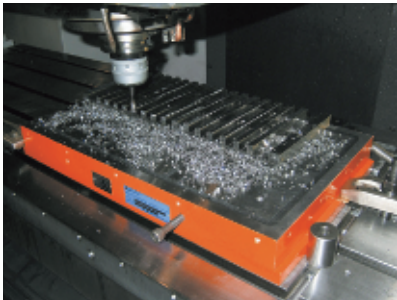
[LME]

## Holder with Transfer Line



[KE]

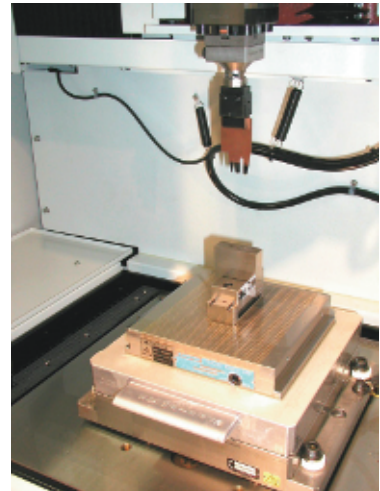
# Machining



Machining Center



Milling Machine



Electrical Discharge Machine



Grinding Machine



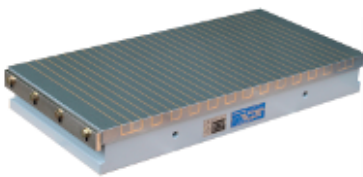
Lathe

## ◆◆◆◆ Magnetic Chucks for Fixing Workpieces ◆◆◆◆

### Electromagnetic Type

### Permanent Electromagnetic Type

### Permanent Magnetic Type



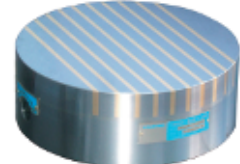
[KET]



[EP-Q]



[RMWH]



[RMA-C]

## Demagnetizing

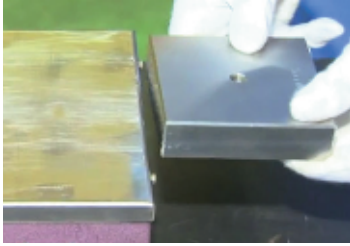


Table Type



[KMD]



Tunnel Type



[KMDT]



Pen Type



[KMDP]

## Tesla Meter

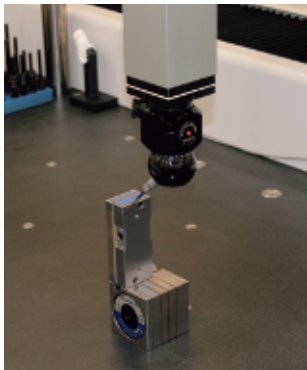


Measurement of residual magnetism

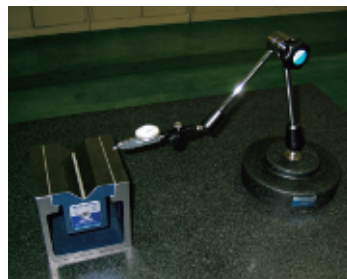


[TM-801EXP]

## Measurement



Coordinate Measuring Machine



Surface Plate

Magnetic Base



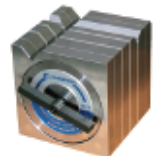
[MB]

V-Block



[KMV]

Square Block



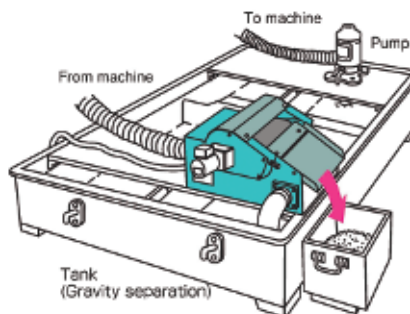
[KYA]

Magclean\*

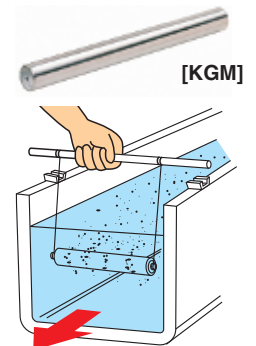


[MS]

## Separating



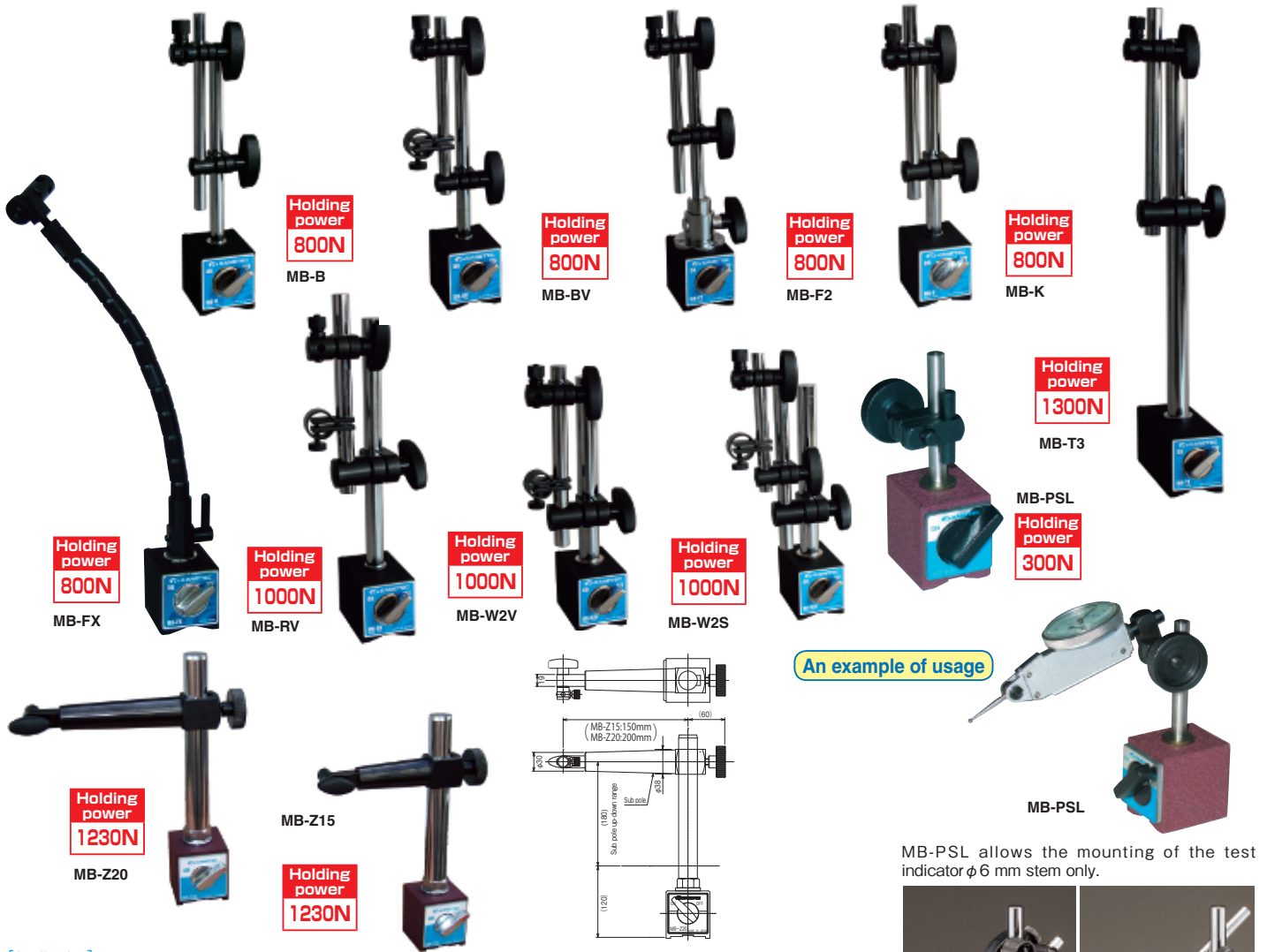
Magnetic Bar



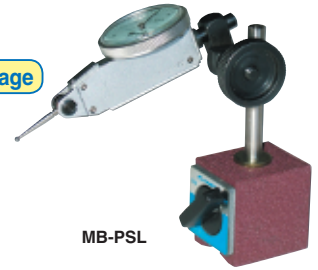
[KGM]

# MEASURING TOOL HOLDERS

## Model MB MAGNETIC BASE



An example of usage



MB-PSL

MB-PSL allows the mounting of the test indicator  $\phi 6$  mm stem only.



The dial gage is not included.

### [Application]

These magnetic bases are widely used as measuring tool holders when measuring dimensions of machined workpieces (detecting errors and deviation) using a dial indicator on machine tools or iron surface plate for measurement by comparison.

### [Features]

- A wide variety of models, small to large, and with diversified additional functions, are available to suit conditions of measuring places.
- A powerful magnet and strong clamping force ensure consistent, highly accurate measurement.
- Model MB-Z magnetic bases are equipped with upper components having the highest rigidity in our Magnetic Base Series, which minimizes errors in repeated measurement and precision measurement.  
Displacement at a force of 0.5 kg ... MB-Z15: 3  $\mu$ m or less (1/8 or less of conventional base)  
MB-Z20: 8  $\mu$ m or less (1/3 or less of conventional base)

[mm (in)]

Model	Holding Power	Magnetic Holder Base			Main Pole		Sub Pole		Main Pole Mounting Thread			Clamp Hole Dia.	Mountable Stem Dia.	Indicator Clamp Screw	Mass	Features
		Width	Length	Height	Dia $\phi$	Length	Dia $\phi$	Length	Mag. Base	Step	Main Pole					
MB-B	800N (80kgf)	50 (1.96)	58.5 (2.30)	55 (2.16)	12 (0.47)	176 (6.92)	10 (0.39)	165 (6.49)	M 8 (0.31) $\times$ 1.25 (0.04)	-	M8 (0.31) $\times$ 1.25 (0.04)	6.6 (0.26) / 8.1 (0.31)	M6 (0.23)	1.5kg/ 3.3 lb	General, standard type.	
MB-BV					194 (7.63)	150 (5.90)	M 8 (0.31) $\times$ 1.25 (0.04)	M8 (0.31) $\times$ 1.25 (0.04)	1.8kg/ 3.9 lb		Main pole 360° turning, can be locked at 75° max.					
MB-F2					14 (0.55)	178 (7.00)	12 (0.47)	165 (6.49)	3-M4 (0.15)		-			M8 (0.31) $\times$ 1.25 (0.04)	M8 (0.31) $\times$ 1.25 (0.04)	1.5kg/ 3.3 lb
MB-K	1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	16 (0.62)	225 (8.85)	14 (0.55)	165 (6.49)	M 8 (0.31) $\times$ 1.25 (0.04)	-	M8 (0.31) $\times$ 1.25 (0.04)	6.6 (0.26) / 8.1 (0.31)	M6 (0.23)	2.4kg/ 5.2 lb	Larger size with fine move adjustment.	
MB-RV					20 (0.78)	178 (7.00)	14 (0.55)	200 (7.87)	M20 (0.78) $\times$ 1.5 (0.05)		M20 (0.78) / M10 (0.39)			M10 (0.39) $\times$ 1.25 (0.04)	2.5kg/ 5.5 lb	High precision type with fine move adjustment.
MB-W2V					35 (1.39)	178 (7.00)	14 (0.55)	200 (7.87)	M20 (0.78) $\times$ 1.5 (0.05)		M20 (0.78) / M10 (0.39)			M10 (0.39) $\times$ 1.25 (0.04)	3.6kg/ 7.9 lb	Main pole longest, base largest and holding power greatest.
MB-T3	1300N (130kgf)	50 (1.96)	117 (4.60)	55 (2.16)	20 (0.78)	355 (13.9)	14 (0.55)	200 (7.87)	M20 (0.78) $\times$ 1.5 (0.05)	M20 (0.78) / M10 (0.39)	M10 (0.39) $\times$ 1.25 (0.04)	6.0 (0.23) / 8.1 (0.31)	(MB-PSL: $\phi 6$ only)	-	1.8kg/ 3.9 lb	Flexible type, settable freely.
MB-FX	800N (80kgf)	50 (1.96)	58.5 (2.30)	55 (2.16)	16 (0.62)	315 (12.4)	-	-	M8 (0.31) $\times$ 1.25 (0.04)	-	M8 (0.31) $\times$ 1.25 (0.04)	6.0 (0.23) / 8.1 (0.31)	-	-	1.8kg/ 3.9 lb	Flexible type, settable freely.
MB-W2S	1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	20 (0.78)	178 (7.00)	14 (0.55) 12 (0.47)	165 (6.49) 130 (5.11)	M 8 (0.31) $\times$ 1.25 (0.04)	-	M8 (0.31) $\times$ 1.25 (0.04)	6.6 (0.26) / 8.1 (0.31)	M6 (0.23)	2.7kg/ 5.9 lb	Two-step sub pole with fine move adjustment.	
MB-PSL	300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	7 (0.27)	54 (2.12)	-	-	M5 (0.19) $\times$ 0.8 (0.03)	-	M5 (0.19) $\times$ 0.8 (0.03)	6.0 (0.23)	-	0.25kg/ 0.5 lb	Compact and simple, suitable for limited space.	
MB-Z15	1230N (125kgf)	70 (2.76)	70 (2.76)	76 (2.99)	30 (1.18)	250 (9.84)	-	-	M20 (0.78) $\times$ 1.5 (0.05)	M20 (0.78) / M12 (0.47)	M12 (0.47) $\times$ 1.75 (0.06)	6.6 (0.26) / 8.1 (0.31)	M6 (0.23)	5.2kg/ 11.5 lb	Strongest upper components in Series.	
MB-Z20	1230N (125kgf)	70 (2.76)	70 (2.76)	76 (2.99)	30 (1.18)	250 (9.84)	-	-	M20 (0.78) $\times$ 1.5 (0.05)	M20 (0.78) / M12 (0.47)	M12 (0.47) $\times$ 1.75 (0.06)	6.6 (0.26) / 8.1 (0.31)	M6 (0.23)	5.5kg/ 12.1 lb	Suitable for repeated measurement and precision measurement.	

※ The upper fixture, Model DG-6 (mounting hole of  $\phi 4.5/6.6$  mm), for mounting a dial gage is optionally available. ※ The holding power is based on a test piece of SS400, 10 mm thick, ground surface.

※ The magnet part of MB-Z is designed for mounting on a flat surface such as a surface plate, but not on a curved surface.

## Model MB-MX HIGH LOCK BASE

**Tightening torque + clamp force + fine adjustment function all improved!**

**Mechanical lock & fine movement adjuster**



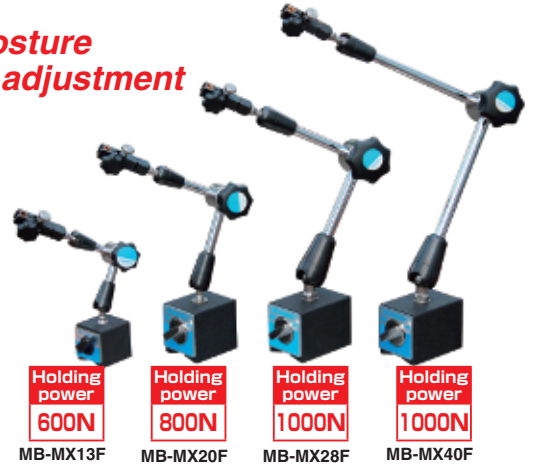
**[Application]**

While these bases are used as measuring tool holders like magnetic bases, they can also be used to hold sensors in place.

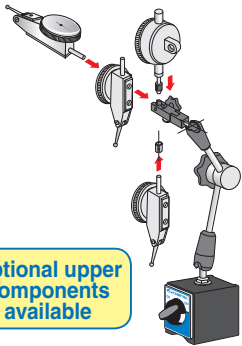
**[Features]**

- Any posture can be set by tightening a knob to lock every part.
- The clamp system is adjustable steplessly. Turning lightly achieves it. **Quick lock mechanism**
- A wide variety of models, small to large, are available to suit your applications.
- The dial gage mounting part can be adjusted finely.
- The arm can be adjusted freely in angle and direction and provides stable, shake-free positioning.

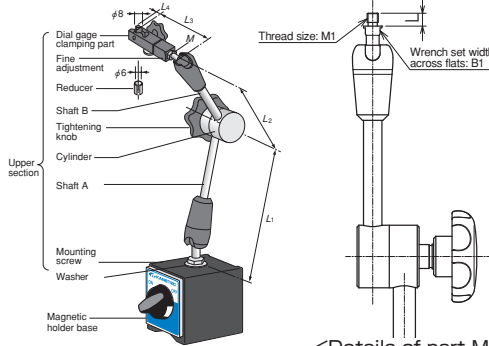
**Free posture by dial adjustment**



**Consistent and highly accurate measurement**



**Optional upper components available**



<Dial gage mounting>

<Names/dimensions>

<Details of part M and dimensions>

Model	M1	B1
MB-MX13F		6
MB-MX20F	M6 (Coarse) x L7	7
MB-MX28F		8
MB-MX40F	M8 (Coarse) x L8	

Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm				Arm Mounting Tapped Hole	Indicator Clamp		Mass	Feature
			Width	Length	Height	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>		M	Stem Hole		
MB-MX13F	Mechanical lock	600N (60kgf)	40 (1.57)	40 (1.57)	40 (1.57)	75 (2.95)	50 (1.96)	64 (2.51)	6.5 (0.25)	M6 (0.23) x 7 (0.28)	φ8 (0.31) φ6 (0.23) (When reducer is used)	6.5 (0.25)	0.7kg/1.7 lb	Smallest
MB-MX20F		800N (80kgf)	50 (1.96)	58.5 (2.30)	55 (2.16)	116 (4.56)	75 (2.95)	65 (2.55)					1.4kg/3.1 lb	Small
MB-MX28F		1000N (100kgf)	73 (2.87)	160 (6.29)	115 (4.52)	64 (2.51)	220 (8.66)	175 (6.88)					66 (2.59)	2.0kg/4.4 lb
MB-MX40F										M8 (0.31) x 8 (0.31)			2.1kg/4.8 lb	Long arm

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

## Model MB-OX HIGH LOCK BASE

**Hydraulic & fine movement adjuster**

**[Application]**

While these bases are used as measuring tool holders like magnetic bases, they can also be used to hold sensors in place.

**[Features]**

- A hydraulic system that tightens joints in three places by one-step operation.
- The arm can be adjusted freely, which facilitates locating the mounted measuring instrument.
- Equipped with a fine movement adjuster.

**Optional upper components available**

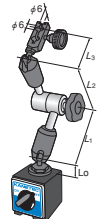


Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm			Arm Mounting Tapped Hole	Indicator Clamp		Mass	Accessory
			Width	Length	Height	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>		Stem Hole	Dovetail		
MB-OX	Hydraulic type	1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	140 (5.51)	110 (4.33)	81 (3.18)	M8 (0.31) x 1.25 (0.04)	φ8 (0.31) φ6 (0.23)	6.5 (0.25)	2.0kg/4.4 lb	*Replenish oil

\*The holding power is based on a test piece of SS400, 10 mm thick, ground surface. \*\*Recommended replenish oil: Idemitsu Daphne Super Multi Oil or equivalent

## Model MB-X HIGH LOCK MINI BASE

**Mechanical lock & fine movement adjuster Small and simple, suitable for use in limited space.**



**[Application]**

While these bases are used as measuring tool holders like magnetic bases, they can also be used to hold sensors in place.

**[Features]**

- A mechanical lock system that tightens joints in three places by one-step operation.
- The arm can be adjusted freely, which facilitates locating the mounted measuring instrument.
- Models MB-CX-V/PSX-V are equipped with a fine movement adjuster.

Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm			Arm Mounting Tapped Hole	Indicator Clamp		Mass	Feature					
			Width	Length	Height	L <sub>0</sub>	L <sub>1</sub>	L <sub>2</sub>		L <sub>3</sub>	Stem Hole			Dovetail				
MB-CX	Mechanical Type	160N (16kgf)	28 (1.10)	28 (1.10)	28 (1.10)	12 (0.47)	46 (1.81)	46 (1.81)	M5 (0.19) x 0.8 (0.03)	φ6 (0.23) x 2	6.5 (0.25)	0.38kg/0.83 lb	Small, V attractive face					
MB-CX-V																0.5 kg/1.10 lb	Small, V attractive face, fine movement adjuster	
MB-PSX		300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	14 (0.55)											0.38kg/0.83 lb	Small, magnet switchover
MB-PSX-V																		0.5 kg/1.10 lb

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

# MEASURING TOOL HOLDERS

## Model DG OPTIONAL CLAMP FOR MAGNETIC BASE/HIGH LOCK BASE

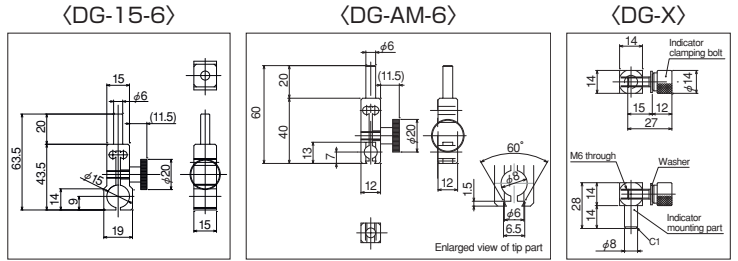
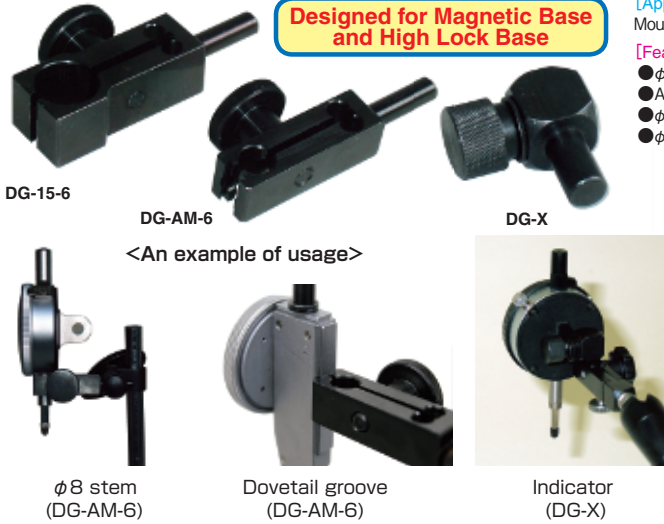
Designed for Magnetic Base and High Lock Base

**[Application]**

Mounted on a magnetic base or High Lock Base to secure a dial gage, linear gage, etc.

**[Features]**

- $\phi 6$  shaft to suit the mounting hole of MB Series upper components. (DG-15-6, DG-AM-6)
- A larger diameter dial gage such as a linear gage ( $\phi 15$ ) can be clamped. (DG-15-6)
- $\phi 8$  and  $\phi 6$  holes are provided for securing a dial gage in the dovetail groove. (DG-AM-6)
- $\phi 8$  shaft to suit the tip mounting part of MB-MX and MB-OX to secure the bracket of a dial gage. (DG-X)



Model	Applicable Base	Specification	Mass
DG-15-6	MB-series, MX, OX	$\phi 15$ dial gage (linear gage, etc.)	68g / 0.15 lb
DG-AM-6	MB-series	Dial gage with dovetail groove	49g / 0.11 lb
DG-X	MB-MX, OX	Dial gage with bracket	40g / 0.09 lb

## Model MB-P MAGNETIC HOLDER BASE



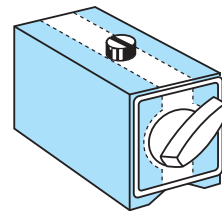
**[Application]**

Used as magnetic holders of magnetic force ON/OFF type. Available in a wide range of sizes from minimum and medium to large.

Useful as a base for temporarily mounted legs of equipment, sensors and lasers by mounting a jig using tapped holes or by some additional machining.

**[Features]**

- Compact, yet the base generates a strong magnetic force.
- The attractive face is either of V-groove mechanism or [ ] type for attaching on a curved surface according to applications. The face opposite to the ON/OFF switch face is also attractive. (MB-PH, MB-PM and MB-PS excluded)
- Although tapped holes are provided, some additional working is possible as shown.



Model	Holding Power	Dimensions			Tapped Hole	Attractive Face Shape	Rear Face Attraction	Mass
		Width	Length	Height				
MB-PB	800N ( 80kgf)	50 (1.96)	58.5 (2.30)	55 (2.16)	M 8 (0.31) × 1.25 (0.04), depth 7 (0.27)	○	○	1.0kg/2.2 lb
MB-PR	1000N (100kgf)		73 (2.87)		1.3kg/2.8 lb			
MB-PRW	600N ( 60kgf)		117 (4.60)		1.2kg/2.6 lb			
MB-PL	1300N (130kgf)		70 (2.75)		70 (2.75)			80 (3.15)
MB-PH	1250N (125kgf)	70 (2.75)	70 (2.75)	80 (3.15)	M12 (0.47) × 1.75 (0.06), depth 11 (0.43)	×	○	3.0kg/6.6 lb
MB-PM	600N ( 60kgf)	40 (1.57)	40 (1.57)	40 (1.57)	M6 (0.23) × , depth 6 (0.23)	○	×	0.5kg/1.1 lb
MB-PS	300N ( 30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	M5 (0.19) × , depth 4 (0.15)			0.2kg/0.4 lb
MB-PG	1500N (150kgf)	50 (1.96)	120 (4.72)	52 (2.04)	M 8 (0.31) × 1.25 (0.04), depth 7 (0.27)			1.9kg/4.1 lb

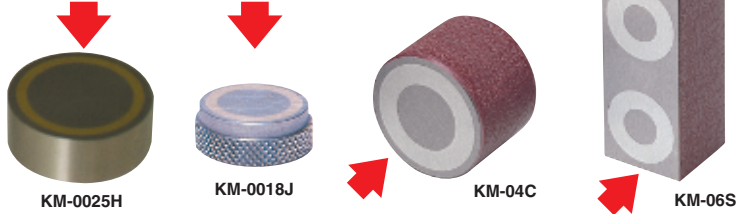
※The holding power is based on a test piece of SS400, 10 mm thick, ground surface. ※MB-PRW is of waterproof construction.

※MB-PB, PR and PG may be equipped with a grip (optional) of KM-B. ※If a magnetic plate is attracted on the top face, the holding power will drop significantly.

# MAGNETIC HOLDERS

## Model KM PERMANENT MAGNETIC HOLDER

↑ indicates the attractive face.



### [Application]

Can be used to hold down drawings, rules and paper patterns. The holders with a tapped hole on the back can be used widely by installing them on jigs. Can be incorporated in press dies. Can hold workpieces during wire cutting.

### [Features]

- Six types of specifications; OD tolerance, plating, painting, peripheral knurling, stainless steel spec. and heat-resistance spec. are available for selection according to applications.
- By matching the OD "h" tolerance, the holders can be incorporated in dies.
- A tapped hole on the back makes the holders useful in various applications.

### Upper limit of working temperature

The holding power drops as body temperature rises. The following types are available. The original holding power returns to the original level when the temperature drops to normal temperature.

#### ■ Type A (Alnico magnet used)

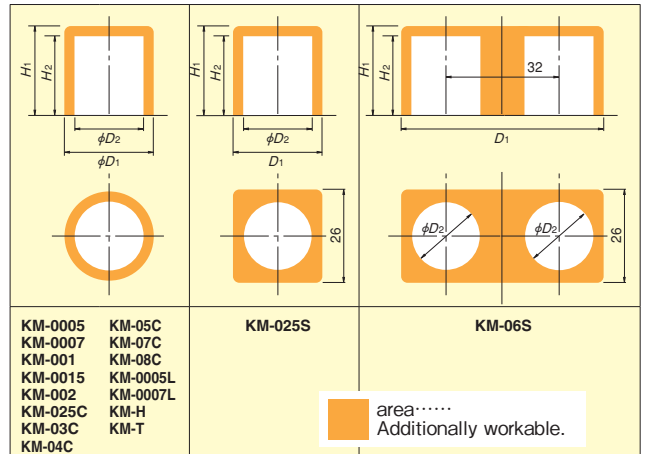
Superior in terms of temperature. The holding power as high as 85% can be maintained at 350°C when the holding power at 20°C is 100%. This type can be used up to 400°C intermittently for a short period of time.

#### ■ Type B (Samarium-cobalt type rare earth magnet used)

The holding power drops to about 95% at 100°C and to about 85% at 200°C when the holding power at 20°C is 100%. For continuous use, the upper limit is 150°C and for intermittent use for a short period of time, this type may be used up to 200°C.

#### ■ Type C (Neodymium rare earth magnet used)

The holding power drops to about 85% at 50°C and to about 70% at 100°C when the holding power at 20°C is 100%. The upper limit for continuous use is 100°C.



※ The holding power may drop when the holder is worked on additionally. In particular, additional work in the radial direction has large influence on the holding power and therefore, must be limited to a minimum necessary scope.

### OD "h" tolerance specification

Model	Dimensions			Holding Power	Surface Treatment	Mounting Tapped Hole	Workable Range				Upper Limit of Working Temp.	Tapping	Mass
	OD × Height	"h" tolerance	Height tolerance				D <sub>1</sub>	D <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>			
KM-0005	φ5 (0.19)h7 (0.27) × 8 (0.31)	0	0	0.3N (0.03kgf)	None	None	5 (0.19)	4.5 (0.17)	—	—	Type B	Not allowed.	1.5g/0.003 lb
KM-0007	φ7 (0.27)h7 (0.27) × 8 (0.31)	0	0	0.4N (0.04kgf)			7 (0.27)	6.5 (0.25)	—	—			2.5g/0.005 lb
KM-H001	φ10 (0.39)h9 (0.35) × 15 (0.59)	0	0	8N (0.8kgf)			10 (0.39)	9.5 (0.37)	—	—	11g/0.024 lb		
KM-H001S	φ15 (0.59)h9 (0.35) × 15 (0.59)	0	0	20N (2kgf)			15 (0.59)	14 (0.55)	15 (0.59)	12 (0.47)	20g/0.044 lb		
KM-H002	φ20 (0.78)h9 (0.35) × 15 (0.59)	0	0	40N (4kgf)			20 (0.78)	18 (0.70)	—	—	40g/0.088 lb		
KM-H002S	φ26 (1.02)h9 (0.35) × 25 (0.98)	0	0	100N (10kgf)			26 (1.02)	24 (0.94)	25 (0.98)	21 (0.82)	100g/0.222 lb		

※The holding power is based on a test piece of SS400, 10 mm thick, ground surface. ※The holding power may drop when the holder is worked on additionally. In particular, additional work in the radial direction has large influence on the holding power and therefore, must be limited to a minimum necessary scope.

### Plating specification

Model	OD × Height	Holding Power	Surface Treatment	Mounting Tapped Hole	Workable Range				Upper Limit of Working Temp.	Tapping	Mass
					D <sub>1</sub>	D <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>			
KM-0005L	φ5 (0.19) × 13 (0.51)	1.8N (0.18kgf)	Nickle plating	None	—	—	13 (0.51)	12 (0.47)	Type A	Not allowed.	2g/0.004 lb
KM-0007L	φ7 (0.27) × 13 (0.51)	4N (0.4kgf)			7 (0.27)	6.5 (0.25)	—	—	Type B		3.8g/0.008 lb
KM-0010H	φ10 (0.39) × 8 (0.31)	3N (0.3kgf)			—	—	—	—	Type B	5g/0.011 lb	
KM-0001	φ10 (0.39) × 15 (0.59)	8N (0.8kgf)			10 (0.39)	9.5 (0.37)	15 (0.59)	12 (0.47)	Type A	Prepared hole up to 3.0 deep on the rear face allowed.	11g/0.024 lb
KM-T001	φ10 (0.39) × 18 (0.70)				18 (0.70)	18 (0.70)	12 (0.47)			Provided.	12g/0.026 lb
KM-0015	φ15 (0.59) × 15 (0.59)	20N (2kgf)			15 (0.59)	14 (0.55)	15 (0.59)	18 (0.70)	Type A	Prepared hole up to 3.0 deep on the rear face allowed.	20g/0.044 lb
KM-T001S	φ15 (0.59) × 18 (0.70)				18 (0.70)	18 (0.70)	18 (0.70)			Provided.	23g/0.051 lb
KM-0018H	φ18 (0.70) × 8 (0.31)	50N (5kgf)			—	—	—	—	Type B	Not allowed.	16g/0.035 lb
KM-0002	φ20 (0.78) × 15 (0.59)	40N (4kgf)			20 (0.78)	18 (0.70)	15 (0.59)	12 (0.47)	Type A	Prepared hole up to 3.0 deep on the rear face allowed.	40g/0.088 lb
KM-T002	φ20 (0.78) × 18 (0.70)				18 (0.70)	18 (0.70)	18 (0.70)			Provided.	45g/0.100 lb
KM-0025H	φ25 (0.98) × 10 (0.39)	90N (9kgf)	—	—	—	—	Type B	Not allowed.	38g/0.083 lb		
KM-T002S	φ26 (1.02) × 30 (1.18)	100N (10kgf)	M6 (0.23) Depth 10 (0.39) pitch 1.0 (0.03)	26 (1.02)	24 (0.94)	30 (1.18)	21 (0.82)	Type A	Not allowed.	120g/0.265 lb	
KM-T003	φ30 (1.18) × 33 (1.29)	150N (15kgf)	M6 (0.23) Depth 8 (0.31) pitch 1.0 (0.03)	30 (1.18)	27 (1.06)	33 (1.29)	28 (1.10)	Type A	Provided.	180g/0.400 lb	

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

※The holding power may drop when the holder is worked on additionally. In particular, additional work in the radial direction has large influence on the holding power and therefore, must be limited to a minimum necessary scope.

### Peripheral knurling specification

Model	OD × Height	Holding Power	Surface Treatment	Mounting Tapped Hole	Upper Limit of Working Temp.	Feature	Mass
KM-0010J	φ10 (0.39) × 8 (0.31)	3N (0.3kgf)	Nickle plating	None	Type B	Peripheral knurling	5g/0.011 lb
KM-0018J	φ18 (0.70) × 8 (0.31)	50N (5kgf)					16g/0.035 lb
KM-0025J	φ25 (0.98) × 10 (0.39)	90N (9kgf)					38g/0.083 lb

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

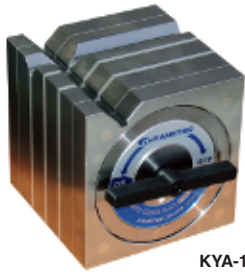
### Painting specification

Model	OD × Height	Holding Power	Surface Treatment	Mounting Tapped Hole	Workable Range				Upper Limit of Working Temp.	Tapping	Mass	
					D <sub>1</sub>	D <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>				
KM-025C	φ26 (1.02) × 25 (0.98)	100N (10kgf)	Painting	M 6 (0.23), depth 8 (0.31) pitch 1.0 (0.03)	26 (1.02)	25 (0.98)	25 (0.98)	17 (0.66)	Type C	Provided.	90g/0.19 lb	
KM-03C	φ30 (1.18) × 25 (0.98)	150N (15kgf)			30 (1.18)	27 (1.06)	—	—			121g/0.26 lb	
KM-04C	φ40 (1.57) × 30 (1.18)	300N (30kgf)			40 (1.57)	36 (1.41)	30 (1.18)	20 (0.78)			260g/0.57 lb	
KM-05C	φ50 (1.96) × 40 (1.57)	500N (50kgf)			50 (1.96)	46 (1.81)	40 (1.57)	25 (0.98)			545g/1.20 lb	
KM-07C	φ70 (2.75) × 40 (1.57)	700N (70kgf)			M12 (0.47), depth 15 (0.59) pitch 1.75 (0.06)	70 (2.75)	60 (2.36)	—			—	1000g/2.20 lb
KM-08C	φ80 (3.14) × 45 (1.77)	1000N (100kgf)			M12 (0.47), depth 18 (0.70) pitch 1.75 (0.06)	80 (3.14)	66 (2.59)	45 (1.77)			27 (1.06)	1600g/3.52 lb
KM-025S	26 (1.02) × 26 (1.02) × 25 (0.98)	100N (10kgf)			None	26 (1.02)	—	25 (0.98)	15 (0.59)	Prepared hole up to 11 deep on the rear face allowed.	118g/0.26 lb	
KM-06S	26 (1.02) × 60 (2.36) × 25 (0.98)	200N (20kgf)			M6 (0.23), depth 10 (0.39) pitch 1.0 (0.03)	60 (2.36)	—	—	—	Provided.	275g/0.60 lb	

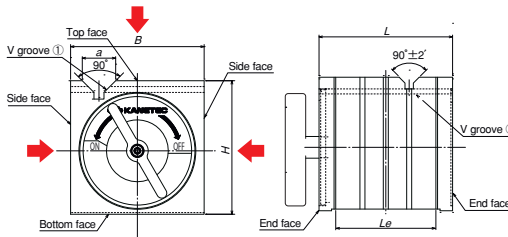
※The holding power is based on a test piece of SS400, 10 mm thick, ground surface.

# BLOCKS, HOLDERS, PERMANENT MAGNETIC CHUCK

## Model KYA SQUARE TYPE BLOCK



KYA-13B



↑ indicates the attractive face.

### [Application]

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

### [Features]

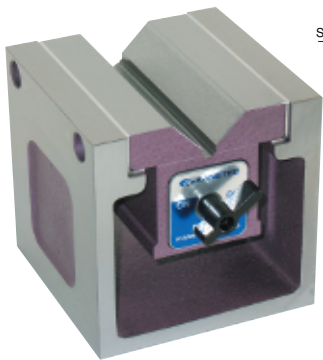
- Workpieces can be held on three faces of the top (V face) and both side faces.
- The ON/OFF lever is detachable. (The length of the opposite sides of the hex hole is 8 mm.)
- Drip-proof and oil-resistant construction.
- An M8 tapped hole is provided on the top for lifting (KYA-18 and 20B only).
- Ultra-precision finishing is also available. Please contact us.

[mm (in)]

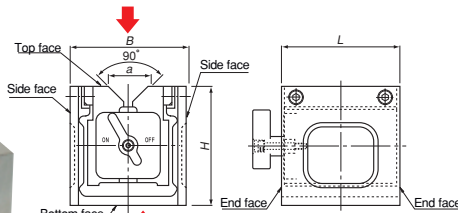
Model	Holding Power		Applicable Diameter		Dimensions					Mass
	V groove①	V groove②	V groove①	V groove②	B	H	L	Le	a	
KYA-8B	120N (12kgf)	100N (10kgf)	φ 10 (0.39) - φ 25 (0.98)	φ 8 (0.31) - φ 15 (0.59)	80 (3.14)	80 (3.14)	80 (3.14)	60 (2.36)	20 (0.78)	3.5kg / 7.7 lb
KYA-10B	200N (20kgf)	120N (12kgf)	φ 10 (0.39) - φ 35 (1.37)	φ 10 (0.39) - φ 30 (1.18)	100 (3.93)	100 (3.93)	100 (3.93)	72 (2.83)	26 (1.02)	7kg / 15 lb
KYA-13B	300N (30kgf)	250N (25kgf)	φ 10 (0.39) - φ 40 (1.57)	φ 10 (0.39) - φ 26 (1.02)	125 (4.92)	125 (4.92)	125 (4.92)	87 (3.42)	30 (1.18)	14kg / 30 lb
KYA-15B	400N (40kgf)	400N (40kgf)	φ 14 (0.55) - φ 50 (1.96)	φ 10 (0.39) - φ 38 (1.49)	150 (5.90)	150 (5.90)	150 (5.90)	107 (4.21)	32 (1.25)	23kg / 50 lb
KYA-18B		300N (30kgf)		180 (7.08)	180 (7.08)	180 (7.08)	123 (4.84)	37kg / 81 lb		
KYA-20B	650N (65kgf)	650N (65kgf)	φ 14 (0.55) - φ 50 (1.96)	φ 14 (0.55) - φ 50 (1.96)	200 (7.87)	200 (7.87)	200 (7.87)	155 (6.10)	38 (1.49)	51kg / 112 lb

※The holding power is based on the V face and φ20 round steel bar. ※Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

## Model KYB SQUARE TYPE BLOCK



KYB-13A



↑ indicates the attractive face.

### [Application]

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

### [Features]

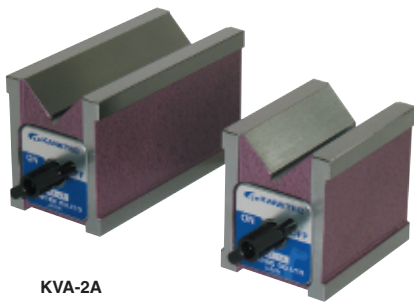
- A workpieces can be held on one face of the top (V face).
- The ON/OFF lever is detachable. (The length of the opposite sides of the hex hole is 8 mm.)
- Drip-proof and oil-resistant construction.
- Ultra-precision finishing is also available. Please contact us.

[mm (in)]

Model	Holding Power	Applicable Diameter	Dimensions				Mass
			B	H	L	a	
KYB-8A	180N (18kgf) or over.	φ 10 (0.39) - φ 32 (1.25)	80 (3.14)	80 (3.14)	80 (3.14)	29 (1.02)	2.5kg / 5.5 lb
KYB-10A	343N (35kgf) or over.	φ 13 (0.51) - φ 50 (1.96)	100 (3.93)	100 (3.93)	100 (3.93)	40 (1.57)	6kg / 13 lb
KYB-13A	400N (40kgf) or over.		125 (4.92)	125 (4.92)	125 (4.92)		8kg / 17 lb
KYB-15A	589N (60kgf) or over.	φ 14 (0.55) - φ 66 (2.59)	150 (5.90)	150 (5.90)	150 (5.90)	50 (1.96)	12kg / 26 lb
KYB-18A	600N (60kgf) or over.		180 (7.08)	180 (7.08)	180 (7.08)		16kg / 35 lb
KYB-20A	785N (80kgf) or over.		200 (7.87)	200 (7.87)	200 (7.87)		22kg / 48 lb

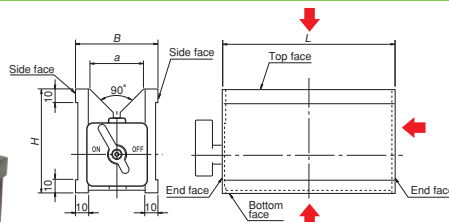
※The holding power is based on the V face and φ20 round steel bar.

## Model KVA MAGNETIC V-HOLDER



KVA-2A

KVA-1A



↑ indicates the attractive face.

### [Application]

Holding tools for round bar marking, drilling, tapping and grinding of irregularly shaped workpieces.  
Holding tools for three-dimensional measuring instruments and various measuring systems.

### [Features]

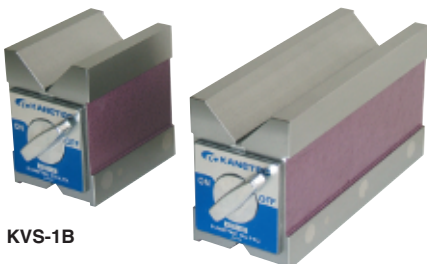
- Workpieces can be held on the top face (V face), bottom face and rear face.
- The ON/OFF lever is detachable. (The length of the opposite sides of the hex hole is 8 mm.)
- Drip-proof and oil-resistant construction.
- Ultra-precision finishing is also available. Please contact us.

[mm (in)]

Model	Holding Power	Applicable Diameter	Dimensions				Mass
			B	H	L	a	
KVA-1A	300N (30kgf) or over.	φ 8 (0.31) - φ 50 (1.96)	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

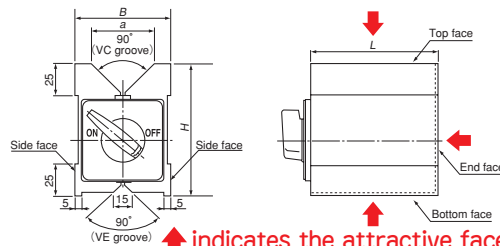
※The holding power is based on the V face and φ20 round steel bar. ※Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

## Model KVS MAGNETIC V-HOLDER



KVS-1B

KVS-2B



↑ indicates the attractive face.

### [Application]

Suitable for securing irregularly shaped workpieces for grinding and light duty cutting such as drilling and tapping.

### [Features]

- The special construction exerts a strong magnetic force on three faces of top, bottom and end.
- Usable for inspection also. Two accuracy grades; standard and special are available.
- The magnetic force can be turned on and off easily by turning the lever.
- Drip-proof construction.

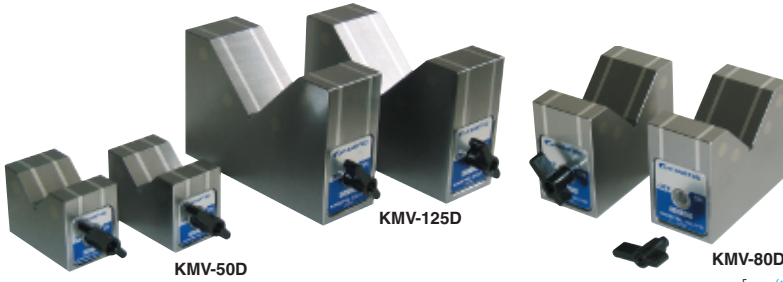
[mm (in)]

Model	Holding Power	Applicable Diameter		Dimensions				Mass
		Steel bar	VC groove	B	a	L	H	
KVS-1B	0.7kN ( 70kgf)	φ 8 (0.31) - φ 68 (2.67)	φ 8 (0.31) - φ 20 (0.78)	75 (2.95)	50 (1.96)	100 (3.93)	105 (4.13)	4.5kg / 9.9 lb
KVS-2B	1.0kN (100kgf)	φ 8 (0.31) - φ 68 (2.67)	φ 8 (0.31) - φ 20 (0.78)	75 (2.95)	50 (1.96)	200 (7.87)	105 (4.13)	9.0kg / 19.8 lb

※The holding power is based on φ20 round steel bar. ※Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.



## Model KMV MAGNETIC V-BLOCK



Model	Holding Power	Applicable Diameter	Dimensions [mm (in)]				Mass
			B	H	L	a	
KMV- 50D	150N (15kgf) or over.	$\phi$ 8 (0.31) – $\phi$ 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.	$\phi$ 8 (0.31) – $\phi$ 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.	$\phi$ 8 (0.31) – $\phi$ 125 (4.92)	100 (3.93)	100 (3.93)	150 (5.90)	90 (3.54)	5kg/ 11 lb×2

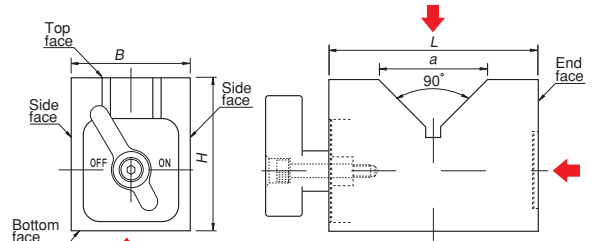
※ The holding power is based on the V face and  $\phi$  20 round steel bar.  
 ※ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

### [Application]

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

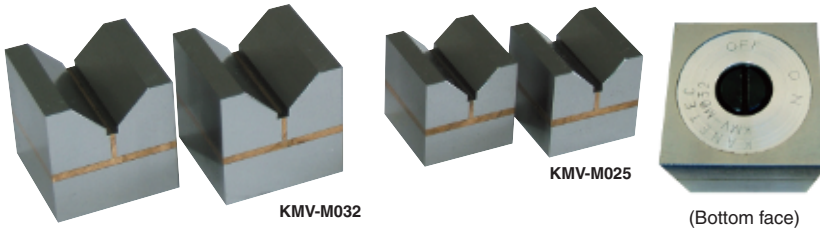
### [Features]

- Workpieces can be held on the top face (V face) and end face.
- The ON/OFF lever is detachable. (The length of the opposite sides of the hex hole is 8 mm.)
- Drip-proof and oil-resistant construction.
- Two blocks make one set.
- Ultra-precision finishing is also available. Please contact us.



↑ indicate the attractive face.

## Model KMV-M PERMANENT MAGNETIC MINI V-BLOCK



Model	Holding Power	Applicable Diameter	Dimensions [mm (in)]						Mass
			B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H	L	
KMV-M020	9.8N (1kgf)	$\phi$ 15 (0.59)	20 (0.78)	12 (0.47)	2.0 (0.07)	4 (0.15)	20 (0.78)	20 (0.78)	0.06kg/0.13 lb×2
KMV-M025	19.6N (2kgf)	$\phi$ 20 (0.78)	25 (0.98)	15 (0.59)	2.5 (0.09)	5 (0.19)	25 (0.98)	25 (0.98)	0.13kg/0.28 lb×2
KMV-M032	49 N (5kgf)	$\phi$ 25 (0.98)	32 (1.25)	20 (0.78)	3.0 (0.11)	6 (0.23)	32 (1.25)	32 (1.25)	0.24kg/0.53 lb×2

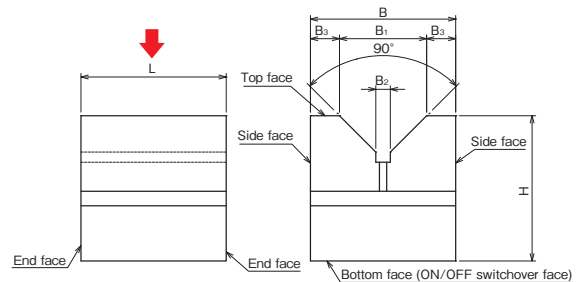
※ The holding power is based on  $\phi$  10 round steel bar.  
 ■ The dimensional accuracy of KMV-M is based on KANETEC in-house standards. If you require higher accuracy, please contact us.

### [Application]

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

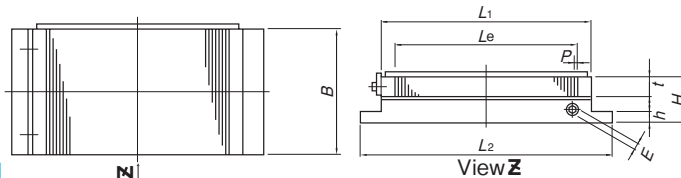
### [Features]

- One set consists of two blocks. The attractive faces and other work faces have been finished precisely. The blocks can be turned ON and OFF by 90° turning using a screwdriver on the bottom face.



↑ indicates the attractive face.

## Model RMWH RECTANGULAR PERMANENT MAGNETIC MICROPITCH CHUCK

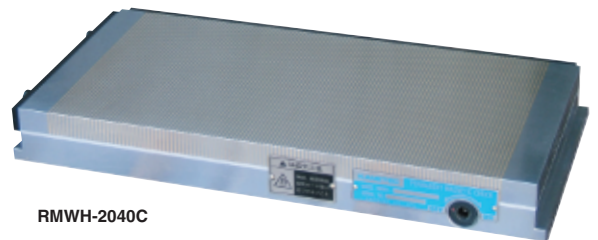


### [Application]

Suitable for grinding thin, thick and small workpieces.

### [Features]

- Extremely low profile, 45 mm for small to medium sizes and 50 mm for large sizes and light weight.
- A wide attractive area on the chuck work face, allowing the corners to be utilized.
- The magnetic force ON-OFF handle can be operated lightly thanks to a special slide design. The side insert type used allows the handle to be detached when it is not used.
- A micropitch type having very fine pole-to-pole pitches. This design provides effective holding power not only on thick workpieces but also on thin and small workpieces.
- Drip-proof specification.



RMWH-2040C

Model	Nominal Size	Work Face			Pole Pitch	Mounting Face			Height	Handle Hole	Mass
		B	L <sub>1</sub>	L <sub>e</sub>		B	L <sub>2</sub>	h			
RMWH- 713C	75 (2.95) × 130 (5.11)	75 (2.95)	130 (5.11)	103 (4.05)	3 (1+2) (0.11)	75 (2.95)	146 (5.74)	10 (0.39)	45 (1.77)	8 (0.31)	3.8kg/ 8 lb
RMWH-1018C	105 (4.13) × 175 (6.89)	105 (4.13)	175 (6.89)	142 (5.59)		191 (7.52)	7kg/ 15 lb				
RMWH-1025C	105 (4.13) × 250 (9.84)		250 (9.84)	208 (8.18)		266 (10.4)	9.5kg/ 20 lb				
RMWH-1030C	105 (4.13) × 300 (11.8)		300 (11.8)	256 (10.0)		316 (12.4)	11.5kg/ 25 lb				
RMWH-1325C	130 (5.11) × 250 (9.84)	130 (5.11)	250 (9.84)	208 (8.18)		266 (10.4)	12kg/ 26 lb				
RMWH-1515C	150 (5.90) × 150 (5.90)		150 (5.90)	118 (4.64)		166 (6.53)	8.5kg/ 18 lb				
RMWH-1530C	150 (5.90) × 300 (11.8)		300 (11.8)	256 (10.0)		316 (12.4)	16.5kg/ 36 lb				
RMWH-1535C	150 (5.90) × 350 (13.7)	150 (5.90)	350 (13.7)	298 (11.7)		366 (14.4)	19kg/ 41 lb				
RMWH-1545C	150 (5.90) × 450 (17.7)		450 (17.7)	394 (15.5)		466 (18.3)	24.5kg/ 53 lb				
RMWH-2035C	200 (7.87) × 350 (13.7)		350 (13.7)	298 (11.7)		366 (14.4)	26kg/ 57 lb				
RMWH-2040C	200 (7.87) × 400 (15.7)	200 (7.87)	400 (15.7)	346 (13.6)		416 (16.3)	29.5kg/ 64 lb				
RMWH-2050C	200 (7.87) × 500 (19.6)		500 (19.6)	442 (17.4)		516 (20.3)	40kg/ 88 lb				
RMWH-2060C	200 (7.87) × 600 (23.6)		600 (23.6)	541 (21.3)		616 (24.2)	48kg/ 105 lb				
RMWH-2525C	250 (9.84) × 250 (9.84)	250 (9.84)	250 (9.84)	208 (8.18)		266 (10.4)	24kg/ 52 lb				
RMWH-2530C	250 (9.84) × 300 (11.8)		300 (11.8)	256 (10.0)		316 (12.4)	28kg/ 61 lb				
RMWH-3050C	300 (11.8) × 500 (19.6)		500 (19.6)	442 (17.4)		516 (20.3)	60kg/ 132 lb				
RMWH-3060C	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	541 (21.3)	616 (24.2)	72kg/ 158 lb					

※ As for the handle, a hex wrench key is included.

# MINI CHUCKS

## Model KPB DOUBLE-FACE/SINGLE-FACE HOLDING PERMANENT MAGNETIC BLOCK



### [Application]

These blocks can hold workpieces during electric discharge machining and grinding. They can also 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 type)
- They are secured to the work table by turning on and off the magnet. (2F type)
- The side faces (ON/OFF switchover face) can also hold workpieces. (2F type)
- They are secured to the work table using tapped holes provided on the mounting face. They can also be secured by having them held by a magnetic chuck. (1F type)
- The operation part is provided on both side faces to facilitate on/off operation.
- Light weight for easy positional adjustment.
- The operating handle is detachable and does not hinder the work.
- One set of two blocks has been machined and finished together.
- They are of drip-proof and oil-resistant construction to allow them to be used in fluid.

### Single face type

Model	Nominal Size	Holding Power	Dimensions				Pole Pitch	Mass
			B	L	H	L <sub>1</sub>		
KPB-1F13	50 (1.96) × 125 (4.92)	250N (25kgf)	52 (2.04)	125 (4.92)	35 (1.37)	85 (3.34)	1.5 (0.5+1.0)	1.5kg/3.3 lb × 2
KPB-1F18	50 (1.96) × 180 (7.08)	350N (35kgf)	52 (2.04)	180 (7.08)	35 (1.37)	110 (4.33)	0.05 (0.02+0.03)	2.2kg/4.8 lb × 2
KPB-1F25	50 (1.96) × 250 (9.84)	500N (50kgf)	52 (2.04)	250 (9.84)	35 (1.37)	150 (5.90)	0.05 (0.02+0.03)	3.1kg/6.8 lb × 2

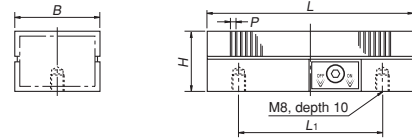
※ The holding power is based on a test piece of SS400, 20 mm thick (ground surface) held on the whole face.

### Double face type

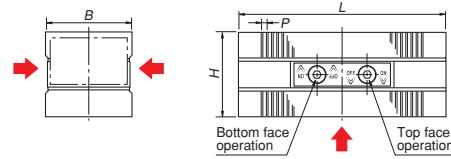
Model	Nominal Size	Holding Power	Dimensions				Pole Pitch	Mass
			B	L	H	L <sub>1</sub>		
KPB-2F13	50 (1.96) × 125 (4.92)	250N (25kgf)	52 (2.04)	125 (4.92)	50 (1.96)	85 (3.34)	1.5 (0.5+1.0)	2.5kg/ 5.5 lb × 2
KPB-2F18	50 (1.96) × 180 (7.08)	350N (35kgf)	52 (2.04)	180 (7.08)	50 (1.96)	110 (4.33)	0.05 (0.02+0.03)	3.6kg/ 8.0 lb × 2
KPB-2F25	50 (1.96) × 250 (9.84)	500N (50kgf)	52 (2.04)	250 (9.84)	50 (1.96)	150 (5.90)	0.05 (0.02+0.03)	5.0kg/11.1 lb × 2

※ The holding power is based on a test piece of SS400, 20 mm thick (ground surface) held on the whole face.

### <KPB-1F dimensions>

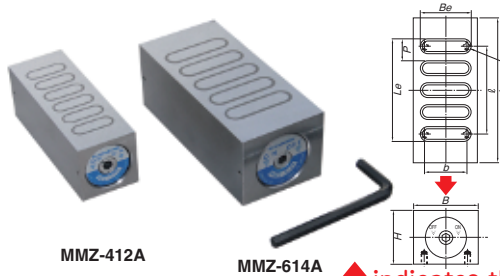


### <KPB-2F dimensions>



↑ indicates the attractive face.

## Model MMZ ONE-FACE HOLDING RECTANGULAR PERMANENT MAGNETIC MINI CHUCK



### [Application]

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

These chucks are of drip-proof construction enabling them to hold workpieces in electric discharge machining fluid.

### [Features]

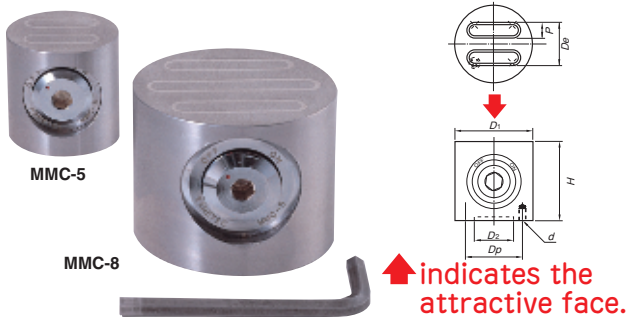
- The magnetic force can be turned ON and OFF from either the front side or the rear side.
- The chucks can be used in fluid.

Model	Holding Power	Attractive Face				Pole Pitch	Mounting Face			Height	Handle Hole	Mass
		B	L	Be	Le		b	ℓ	d			
MMZ-412A	300N (30kgf)	40 (1.57)	115 (4.52)	29 (1.14)	86 (3.38)	15 (1.5+8+1.5+4)	30 (1.18)	65 (2.55)	4-M5 (0.19) depth 7 (0.27)	40 (1.57)	Nominal 6 (0.23)	1.3kg/ 2.8 lb
MMZ-614A	800N (80kgf)	60 (2.36)	135 (5.31)	44 (1.73)	92 (3.62)	19.5 (2+10+2+5.5)	42 (1.65)	72 (2.83)	4-M6 (0.23) depth 10 (0.39)	50 (1.96)	Nominal 6 (0.23)	3.1kg/ 6.8 lb

※ The holding 800N (80kgf) power is based on a test piece of □50 × t25, S15C.

↑ indicates the attractive face.

## Model MMC ONE-FACE HOLDING ROUND PERMANENT MAGNETIC MINI CHUCK



### [Application]

These chucks are used in combination with a magnetic chuck as an auxiliary holding tool for irregularly shaped workpieces in grinding and light duty cutting. (These chucks cannot be used in wet operations.) 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]

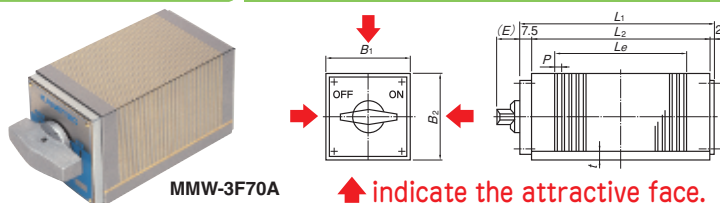
- These chucks are of powerful type having a special construction using Alnico magnet steel.
- Small, but the magnetic force can be turned on and off.

Model	Holding Power	Attractive Face		Pole Pitch	Mounting Face		Height	Handle Hole	Mass	
		D <sub>1</sub>	D <sub>e</sub>		D <sub>p</sub>	d				
MMC-5	85N (8.5kgf)	50 (1.96)	29 (1.14)	9.5 (1.5+8)	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 (3.15)	54 (2.12)	10 (2 +8)	60 (2.36)	50 (1.96)	4-M6 (0.23) depth 10 (0.39)	65 (2.55)	Nominal 8 (0.31)	2.2kg/ 4.8 lb

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

↑ indicates the attractive face.

## Model MMW THREE-FACE HOLDING PERMANENT MAGNETIC MINI CHUCK



### [Application]

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

### [Features]

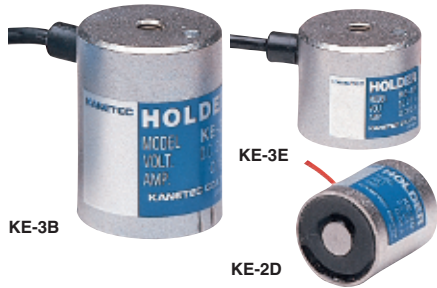
- Since these chucks have three attractive faces, one face may be used for mounting the chuck and other faces for holding workpieces.
- They have magnetic poles arranged at micro pitches to hold small workpieces.
- Drip-proof construction.

Model	Nominal Size	Holding Power	Dimensions					Pole Pitch	Squareness	Parallelism	Mass		
			B <sub>1</sub>	B <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	E						
MMW-3F50A	55 (2.16) × 115 (4.52)	600N (60kgf)	55 (2.16)	55 (2.16)	125.5 (4.94)	115 (4.52)	20.5 (0.80)	90.5 (3.56)	10 (0.39)	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)	125.5 (4.94)	115 (4.52)	25.5 (1.00)	90.5 (3.56)	10 (0.39)	1.5 (0.5+1.0)	0.01	0.02	4.0kg/8.8 lb

※ The holding power is based on a test piece of □50 × t25, S15C, ground surface, with nothing held on other faces. ※ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

# MAGNETIC HOLDERS

## Model KE-B·D·E ELECTROMAGNETIC HOLDER



Rectifier required additionally

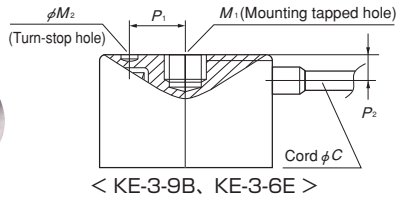


[Application]

These holders are suitable for a wide range of operations such as feeding materials on automatic press machines, preventing deflection of shearing materials, various automatic processes and hands of industrial robots.

[Features]

- Special cables that have specially high durability against bending and vibration are used. (Employed in all models except for KE-1B and KE-2D.)
- Electrical control can be used for turning on and off the magnetic force and for remote operation.
- Usable continuously.
- Finished by plating.



A type of cord on the top face spec. (KE-B/E-U) is also available.

Model	Nominal Size	Max. Holding Power	Mounting Hole			Power Cord		Voltage	Current	Working Rate	Applicable Rectifier	Mass
			M <sub>1</sub>	M <sub>2</sub>	P <sub>1</sub>	C	P <sub>2</sub>					
KE-1B	φ10(0.39) × 30(1.18)	8N( 0.8kgf)	M4(0.15) × 0.7(0.02) Depth 6(0.23)	—	—	—	—	6 VDC	0.18A	100% ED	KR-T101A-6/24 RH-M303A-6/24, -C1, -C2	15g/0.03 lb
KE-2B	φ20(0.78) × 40(1.57)	28N( 2.8kgf)	M6(0.23) × 1.0(0.03) Depth 12(0.47)	φ4(0.15) Depth 2(0.07)	10(0.39)	φ3.7(0.14)	7(0.27)	24 VDC	0.07A		KR-T101A-6/24	60g/0.13 lb
KE-3B	φ30(1.18) × 40(1.57)	180N( 18kgf)							0.19A		RH-M303A-6/24, -C1, -C2	150g/0.33 lb
KE-4B	φ40(1.57) × 40(1.57)	400N( 40kgf)	M8(0.31) × 1.25(0.04) Depth 15(0.59)	φ4(0.15) Depth 3(0.11)	15(0.59)	18(0.70)	8.5(0.33)	90 VDC	0.24A		RH-M105B-24	300g/0.66 lb
KE-5B	φ50(1.96) × 50(1.96)	590N( 60kgf)							0.12A		KR-N101A RH-M210B KR-N103A RH-M102C	560g/1.23 lb
KE-6B	φ60(2.36) × 60(2.36)	1080N(110kgf)	M10(0.39) × 1.5(0.05) Depth 15(0.59)	φ5(0.19) Depth 4(0.15)	20(0.78)	φ6.2(0.24)	10(0.39)	0.19A	1.0kg/2.20 lb			
KE-7B	φ70(2.75) × 60(2.36)	1470N(150kgf)						0.20A	1.4kg/3.08 lb			
KE-8B	φ80(3.15) × 60(2.36)	1960N(200kgf)	φ6(0.23) Depth 6(0.23)	20(0.78)	15(0.59)	11(0.43)	12(0.47)	0.26A	1.7kg/3.74 lb			
KE-9B	φ90(3.54) × 60(2.36)	3230N(330kgf)						0.35A	2.2kg/4.85 lb			

※Cord length 0.3 m (0.25 m lead for KE-1B only)

※The max. holding power of Models KE-1B to 4B is based on a test piece of SS400, 10 mm thick, ground surface held on the whole area, and that of KE-5B to 9B, a test piece of SS400, 20 mm thick, ground surface held on the whole area. ※For KE-3B to 9B, a drip-proof type is also available.

Model	Nominal Size	Max. Holding Power	Mounting Hole			Power Cord		Voltage	Current	Working Rate	Applicable Rectifier	Mass
			M <sub>1</sub>	M <sub>2</sub>	P <sub>1</sub>	C	P <sub>2</sub>					
KE-2D	φ20(0.78) × 25(0.98)	18N(1.8kgf)	M4(0.15) × 0.7(0.02) Depth 8(0.31)	φ2.1(0.08) Depth 2.5(0.09)	7.5(0.29)	—	—	24 VDC	0.04A	100% ED	KR-T101-6/24 RH-M303A-6/24, -C1, -C2 RH-M105B-24	30g/0.06 lb
KE-3E	φ30(1.18) × 25(0.98)	80N( 8kgf)	M6(0.23) × 1.0(0.03) Depth 12(0.47)	φ4(0.15) Depth 2(0.07)	10(0.39)	φ3.7(0.14)	7.5(0.29)	0.09A	100g/0.22 lb			
KE-4E	φ40(1.57) × 25(0.98)	220N( 22kgf)							0.12A		190g/0.42 lb	
KE-5E	φ50(1.96) × 30(1.18)	490N( 50kgf)	M8(0.31) × 1.25(0.04) Depth 15(0.59)	φ5(0.19) Depth 3(0.11)	18(0.70)	φ6.2(0.24)	9.5(0.37)	0.05A	380g/0.83 lb			
KE-6E	φ60(2.36) × 30(1.18)	880N( 90kgf)							0.07A	500g/1.10 lb		

※Cord length 0.3 m (0.2 m lead for KE-2D only) ※The max. holding power is based on a test piece of SS400, 10 mm thick, ground surface held on the whole area.

## Model RH-M ELECTROMAGNETIC HOLDER HIGH-SPEED CONTROLLER

Dedicated to electromagnetic holders



RH-M102C

[Application]

These are breakthrough electric products that can make standard electromagnetic holders respond to higher-speed motion of workpiece handling by robot hands, etc.

[Features]

- The residual holding power, a factor to delay workpiece attaching and detaching operations, can be eliminated quickly to speed up the lines that use standard electromagnetic holders. (The demagnetizing time may become longer depending on materials of workpieces.)
- These controllers can be used to attract and transfer stacked plates one by one or to pick up parts stored in a bucket one by one by adjusting the voltage.

### RH-M303A-6/24 Series

[Features]

- The employment of FET in the output circuit ensures high-speed and consistent demagnetization performance. This Series also withstands frequent usage.
- The PWM output control provides consistent output voltages not affected by voltage fluctuation and difference of power source frequency at very weak output setting.
- A wide range of power source from 100 VAC to 220 VAC can be used.
- The rated output voltage can be selected between 24 V and 6 V with a dip switch. (KE-1B also supported.)
- The demagnetization function is incorporated. (Alternate attenuation and reverse excitation can be selected with a dip switch.)
- A weak magnetization adjust function is incorporated.

Model	Input		Output		Dimensions			Demag. Function	Applicable Holder	Mass	
	Voltage	Current	Voltage	Current	Width	Depth	Height				
RH-M303A-6/24	Single-phase 100 VAC - 220 VAC, 50/60 Hz	3A	0-24 VDC/ 0-6 VDC	3A	55 (2.17)	160 (6.30)	175 (6.89)	Provided	6V	KE-1B KE-2B-4B KE-2D-4E KE-2R-4RA KE-KA KE-V306-312 KEP-3C-9C,K5	0.8kg/ 1.76 lb
RH-M303A-6/24-C1					70 (2.76)	180 (7.09)	205 (8.07)				1.7kg/ 3.75 lb
RH-M303A-6/24-C2					175 (6.89)	100 (3.94)	190 (7.48)				2.5kg/ 5.51 lb
RH-M102C	Single-phase 100 VAC 50/60Hz	5A	0-90 VDC	2A	145 (5.70)	175 (6.88)	260 (10.2)		90V	KE-5B-9B KE-5E,6E KE-V510-830 KE-M	4.3kg/ 9.48 lb
RH-M105B-24					170 (6.69)						24V
RH-M105B	Single-phase 200 VAC 50/60Hz	10A	0-90 VDC	10A	282 (11.1)	290 (11.4)	90V		KE-5B-9B KE-5E,6E KE-V510-830 KE-M	6.0kg/ 13.2 lb	
RH-M205B					24V					KE-5B-9B KE-5E,6E KE-V510-830 KE-M	6.0kg/ 13.2 lb
RH-M210B											

※For ON/OFF control, external control is required. Input signals are to be provided by the customer.



RH-M303A-6/24

[Type installed inside panel]  
A simple construction of PWB and chassis suitable for installation inside the machine power source panel.



RH-M303A-6/24-C1

[Cover type]  
A type having a dedicated cover added to the type installed inside panel. A power indicator lamp is provided on the panel.



RH-M303A-6/24-C2

[Type housed in case]  
The base construction is the type installed inside panel. This is placed in a dedicated case to enable installation on the side face of a machine. This type is equipped with a power indicator lamp, voltmeter, magnetic force adjust variable resistor and demagnetizing variable resistor.

# LIFTING MAGNETS, MAGTAP\*

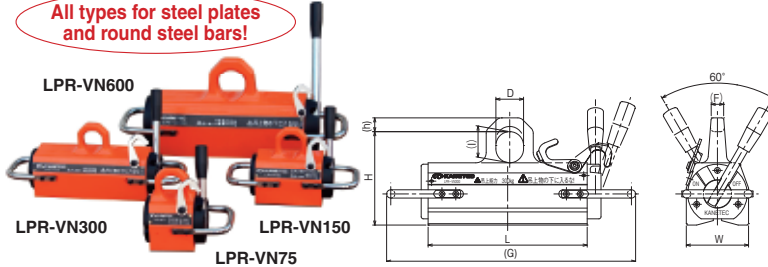
## Model LPR-VN SMALL PERMANENT MAGNETIC LIFMA\*

### Permanent magnetic Lifma with enhanced operability and safety.

#### [Application]

Permanent magnetic type lifting magnets used as a lifting section of cranes and hoists for transportation of steel materials in warehouses and machining shops or for loading and unloading workpieces to and from machine tools. These are suitable for transporting semi-finished products having a flat surface such as machine parts, press dies and plastic molds and for transporting mill scale steel plates and flat steel materials.

All types for steel plates and round steel bars!



#### [Features]

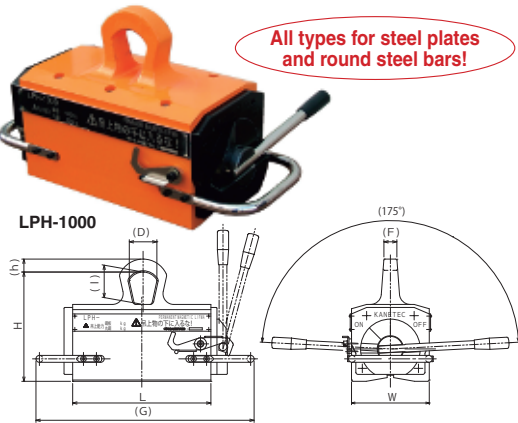
- All types are capable of lifting steel plates and round steel bars.
- These are of permanent magnetic type requiring no power source. Thus, there is no risk of falling workpieces due to power failure or failure of wiring systems.
- Powerful magnetic force but compact and light weight.
- The narrowest handle operating angle of 60 degrees (patented) in the industry facilitates the ON/OFF operation in small space.
- In addition to the conventional handle lock mechanism, a safety stopper is provided as a standard accessory. These double safety measures prevent falling of lifted objects due to unexpected returning of the handle. [mm (in)]

Model	Lifting Capacity		Dimensions							Mass			
	Steel Plate	Steel bar	W	L	G	h	H	D	F		I		
LPR-VN75	75kg/ 165 lb	50kg/ 110 lb		80 (3.14)	160 (6.29)		15 (0.59)		135 (5.31)	40 (1.57)	15 (0.59)	45 (1.77)	5.5kg/ 12.1 lb
LPR-VN150	150kg/ 330 lb	100kg/ 220 lb	90 (3.54)	130 (5.11)	260 (10.2)						18 (0.70)		8kg/ 17.6 lb
LPR-VN300	300kg/ 661 lb	200kg/ 440 lb		230 (9.05)	360 (14.1)		20 (0.78)						14kg/ 30.8 lb
LPR-VN600	600kg/ 1322 lb	400kg/ 880 lb	119 (4.68)	330 (12.9)	500 (19.6)		25 (0.98)	184 (7.24)	60 (2.36)	25 (0.98)	65 (2.55)		35kg/ 77.1 lb

\*The lifting capacity is indicated by a value that is a third (safety factor 3) of the max. holding power.  
\*LPR-VN75 is not provided with a rear guard.

## Model LPH LARGE PERMANENT MAGNETIC LIFMA\*

All types for steel plates and round steel bars!



#### [Application]

Permanent magnetic type lifting magnets used as a lifting section of cranes and hoists for transportation of steel materials in warehouses and machining shops or for loading and unloading workpieces to and from machine tools. These are suitable for transporting semi-finished products having a flat surface such as machine parts, press dies and plastic molds and for transporting mill scale steel plates and flat steel materials.

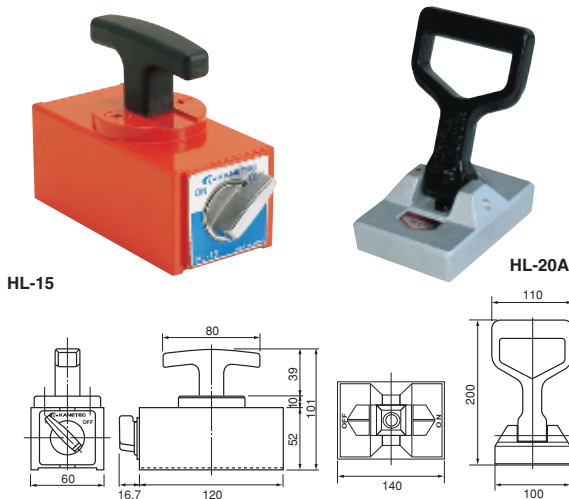
#### [Features]

- All types are capable of lifting steel plates and round steel bars.
- The ON/OFF handle operating force has been reduced to a half max. of that of the conventional models. The operability in lifting thin workpieces and pipes that are difficult to lift with conventional models has been improved. (Patented)
- In addition to the conventional handle lock mechanism, a safety stopper is provided as a standard accessory. These double safety measures prevent falling of lifted objects due to unexpected returning of the handle. (Design registered)
- These are of permanent magnetic type requiring no power source. Thus, there is no risk of falling workpieces due to power failure or failure of wiring systems. [mm (in)]

Model	Lifting Capacity		Dimensions							Mass			
	Steel Plate	Steel bar	W	L	G	h	H	D	I		F		
LPH-1000	1000kg/2205 lb	600kg/1323 lb	180(7.08)	320(12.5)	505(19.8)	30(1.18)	253(9.96)	65(2.55)	75(2.95)				80kg/176 lb
LPH-1500	1500kg/3307 lb	800kg/1764 lb		400(15.7)	585(23.0)	35(1.37)	268(10.5)	75(2.95)	85(3.34)		30(1.18)		100kg/220 lb
LPH-2000	2000kg/4410 lb	900kg/1984 lb	205(8.07)	500(19.6)	685(26.9)	38(1.49)	281(11.0)	80(3.14)	97(3.81)		35(1.37)		130kg/286 lb

\*The lifting capacity is indicated by a value that is a third (safety factor 3) of the max. holding power.

## Model HL HAND LIFMA\*



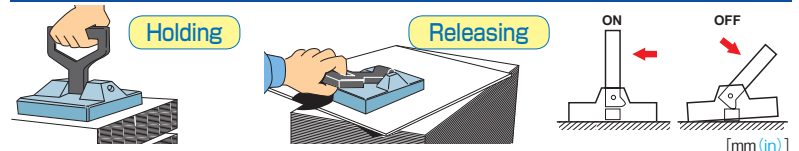
#### [Application]

Suitable for pulling out steel materials or steel plates and carrying metal frames, raw materials, press molds, semi-finished products, etc.

#### [Features]

- A new cam mechanism is employed so as not to apply friction due to holding and releasing directly to the surface of workpieces to transport. (HL-20A)
- Workpieces are held and released quite smoothly.
- The magnetic force can be turned on and off by lever operation. (HL-15)
- The T-handle is robust and held by hand comfortably for stable workpiece transportation. (HL-15)

#### How to use (HL-20A)



Model	Max. Holding Power		Lifting Capacity	Dimensions			Handle Length	Mass
	Lateral	Lift		Width	Length	Height		
HL-15	350N (35kgf)	1.5kN (150kgf)	20kg/44.1 lb	60(2.36)	120(4.72)	52(2.04)	49(1.92)	3.0kg/6.6 lb
HL-20A	500N (50kgf)	2 kN (200kgf)	30kg/66.1 lb	100(3.93)	140(5.51)	32(1.26)	200(7.87)	2.5kg/5.5 lb

\*The holding power is based on a test piece of 15 mm thick soft steel. The holding power and lifting capacity drop depending on the thicknesses, materials of workpieces and other factors. \*Do not use this Lifma for a hoist.

## Model MTP MAGTAP\*

#### [Application]

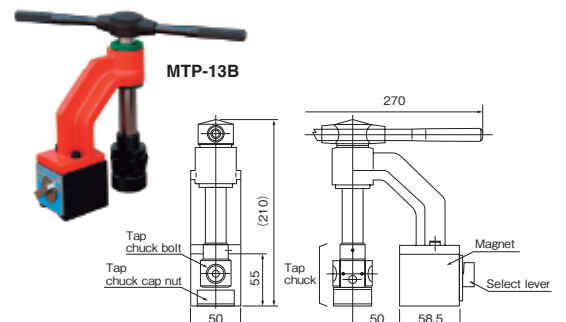
A tool to facilitate tapping of prepared holes in iron and steel plates, secured with a powerful magnet.

#### [Features]

- Small and light weight for easy carrying around.
- The tap guide holder to facilitate accurate tapping in horizontal and vertical faces.
- Wear and damage of taps can be prevented.
- The magnet used is a powerful permanent magnet.

Model	Tap Feeding	Tapping Capacity	Max. Stroke	Holding Method	Holding Power	Dimensions		Mass
						Magnet	Height	
MTP-13B	Manual	M 3(0.11) - M12(0.47)	60(2.36)	Permanent magnet	0.8kN(80kgf)	50(1.96) × 58.5(2.30) × 55(2.16)	210(8.26)	2.5kg/5.51 lb

\*The holding power is based on a test piece of SS400, 25 mm thick, mill scale surface.



# MAGNETIC TOOLS, SLUDGE CONVEYANCE EQUIPMENT

## Model HMC MAGHAND\*

Collect bolts, screws and nails scattered around on the floor!

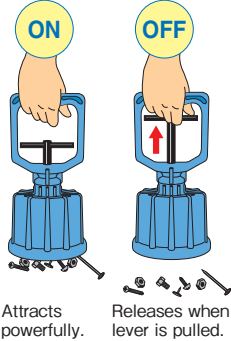


### [Application]

The Maghand is suitable for collecting iron pieces that are scattered around on the floor or mixed in media. Since it can also be used to remove and collect iron pieces from powder materials, it has a wide range of applications including machining, forging and food processing. The Maghand is also useful in the household or as a teaching material.

### [Features]

- The magnetic force can be turned on and off simply by one-hand operation.
- The Maghand employs a powerful magnet for powerful attraction and a wide attractive face.
- Model HMC-75A has a long arm to make it suitable for collecting iron pieces in pits and enclosures.
- Model HMC-T is cased with aluminum and therefore its strength and wear resistance have been improved from that of Model HMC-A. (High-temperature type up to 150°C)

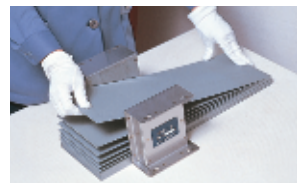
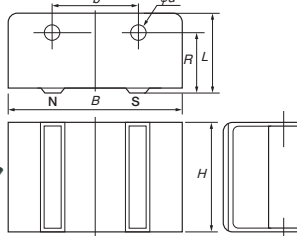


### [Specifications]

- Capacity: M10 plain washers ... about 0.6 kg
- M4 × 10 screws ..... about 0.7 kg

Model	Dimensions				Mass
	$\phi D$	H	h	W	
HMC-10A		227(8.93)			0.9kg/1.98 lb
HMC-50A	114 (4.48)	500(19.6)	85 (3.34)	104 (4.09)	1.5kg/3.30 lb
HMC-75A		750(29.5)			1.9kg/4.20 lb
HMC-T10A		241(9.48)			1.2kg/2.60 lb
HMC-T50A	112 (4.40)	514(20.2)	95 (3.74)		1.8kg/3.96 lb
HMC-T75A		764(30.0)			2.3kg/5.07 lb

## Model KF STEEL PLATE SEPARATOR "FLOATER"\*



### [Application]

Suitable for separating stacked iron plates one by one and feeding them to machines (presses, shearing machines, etc.) and for installation as a separator at the take-out side for feeding steel plates one by one in the steel plate automatic feeding line.

### [Features]

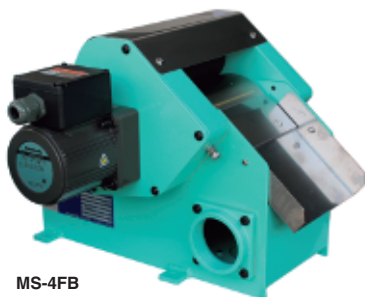
- Standard type using a high-performance ferrite magnet. Can be mounted on machines easily and several units can be coupled according to size, shape and weight of steel plates.
- The two rails on the magnetic polar surface automatically separate steel plates without requiring mechanical separating work.
- Not only steel plates but also semi-finished pressed workpieces, circular workpieces and irregularly shaped workpieces can be separated at certain intervals by use of several units of Floater.
- One set consists of two units.

A magnetic force ON/OFF type (electrical or air cylinder), which can separate steel plates one by one more smoothly than the standard type is also available. Please contact us.

Model	Dimensions				Mounting		Mass
	B	H	L	R	$\phi d$	b	
KF-5B	65(2.55)	87(3.42)	55.5(21.8)	45.5(1.79)	4	8(0.31)	1.0kg/2.2 lb × 2
KF-10	125(4.92)		61.5(2.42)	51.5(2.02)			2.0kg/4.4 lb × 2
KF-20		127(5.00)				80(3.15)	2.5kg/5.5 lb × 2
KF-30	210(8.26)		66.5(2.61)	56.5(2.22)		150(5.90)	7.0kg/15 lb × 2
KF-40		254(10.0)	71.5(2.81)	59.5(2.34)			12.0kg/26 lb × 2

## Model MS-F·FH·FHP MAGCLEAN\*

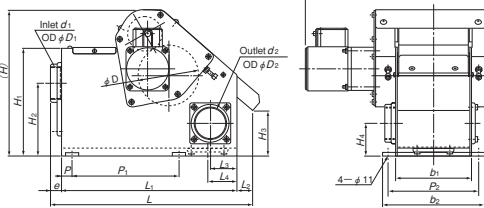
### Magnetic coolant separator



### [Application]

This unit is incorporated in the grinding fluid purification and circulation system for grinders to remove iron powder, a major part of purification.

When this is used together with a tank in which particles other than iron powder such as abrasive grains are separated by floating and precipitation, repurified and regenerated grinding fluid can be supplied to grinders again.



### [Features]

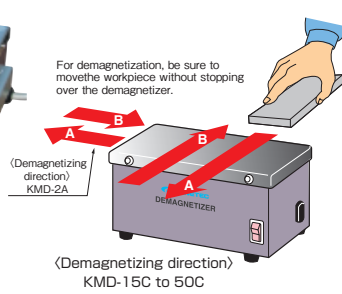
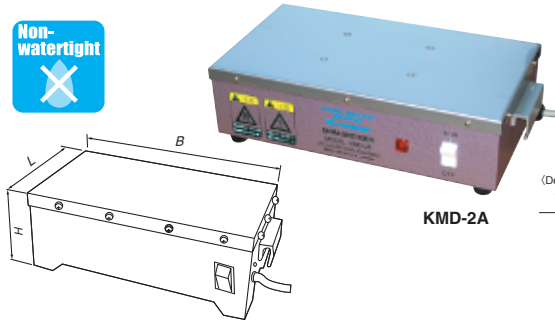
- The construction of a stationary magnet and a rotary outer drum shell has no magnet in the area of the rake plate to allow smooth discharge of sludge. (The life of the rake plate is also prolonged.)
- The magnetic drum rotation drive construction has been modified to improve durability significantly.
- The squeezing roller tensioning mechanism has been designed anew to improve the squeezing performance.
- The squeezing roller and inlet areas are covered to enhance safety as well as to prevent grinding fluid from splashing/scattering.
- The outlet can be located on the right, left or bottom to allow flexible change of the circulation system layout.
- The high magnetic force type (MS-FaH: drum surface max. flux density 0.3T (3000G))/super high magnetic force type (MS-FHP: 0.5T (5000G)) are most suitable for collection of weak magnetic and minute sludge.
- A type having a motor on the right side (MS-F-R) is also available.

Standard	Model	Processing Capacity	Power Source	Motor	Dimensions																			Mass							
					L	B	H	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	e	P	P <sub>1</sub>	P <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	D	D <sub>1</sub>		d <sub>1</sub>	D <sub>2</sub>	d <sub>2</sub>				
MS-2FB	MS-2FaH	MS-2FHP	20L/min	3-phase 200 VAC/220 VAC, 50/60 Hz	25W	375 (14.7)	278 (10.9)						15 (0.59)				120 (4.72)	91 (3.58)	141 (5.55)							57 (2.24)	PS-1-1/2			15kg/33 lb	
MS-4FB	MS-4FaH	MS-4FHP	40L/min			380 (14.9)	328 (12.9)	271 (10.6)	330 (12.9)			50 (1.96)	55 (2.16)			200 (7.87)	170 (6.69)	141 (5.55)	191 (7.52)	200 (7.87)	135 (5.31)	84 (3.30)			60 (2.36)			70 (2.75)	PS-2		18kg/39 lb
MS-6FB	MS-6FaH	MS-6FHP	60L/min			510 (20.0)	505 (19.8)	286 (11.2)	460 (18.1)		30 (1.18)	65 (2.55)	65 (2.55)		20 (0.78)	270 (10.6)	320 (12.6)	291 (11.4)	341 (13.4)	215 (8.46)	142 (5.59)	60 (2.36)			114 (4.48)			85 (3.34)	PS-2-1/2		21kg/46 lb
MS-8FB	MS-8FaH	MS-8FHP	80L/min		515 (20.3)	605 (23.8)					86 (3.38)	86 (3.38)			400 (15.7)	420 (16.5)	391 (15.3)	441 (17.3)	250 (9.84)	151 (5.94)	67 (2.63)							102 (4.01)	PS-3		38kg/83 lb
MS-18FB	MS-18FaH	MS-18FHP	180L/min		655 (25.7)	655 (25.7)	321 (12.6)	600 (23.6)			80 (3.14)	95 (3.74)		25 (0.98)	470 (18.5)	441 (17.3)	491 (19.3)	250 (9.84)	165 (6.49)	95 (3.74)	77 (3.03)									45kg/99 lb	
MS-24FB	MS-24FaH	MS-24FHP	240L/min			705 (27.7)									520 (20.4)	491 (19.3)	541 (21.3)														50kg/110 lb

# DEMAGNETIZERS

## Model KMD TABLE TYPE DEMAGNETIZER

Compact but improved demagnetizing performance!



### [Application]

These demagnetizers produce an alternating magnetic field on the surface by use of an AC power source, through which workpieces are passed to remove the magnetism remaining on their surface.

### [Features]

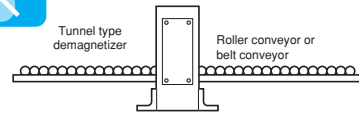
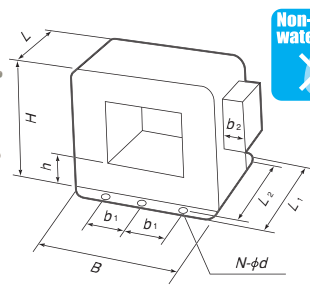
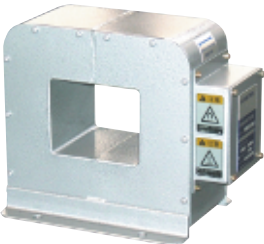
- Thick workpieces can be demagnetized effectively by moving both the face and the back over the demagnetizer.
- These demagnetizers have good heat radiation and can withstand continuous power-on condition.
- These demagnetizers are very powerful and can demagnetize steel materials that have properties similar to magnetic steel and have large magnetism holding power such as high-speed steel, bearing steel, nickel-chrome steel, spring steel, die steel, etc. that are usually difficult to demagnetize. (KMD-2A, KMD-30C to 50C)

If you plan to install the demagnetizer in the vertical direction or opposite direction, please contact us. [mm (in.)]

Model	Power Source	Power Capacity (Current)	Working Rate	Effective Demag. Width	Dimensions			Mass
					B	L	H	
KMD-2A	3-phase 200 VAC, 50/60 Hz	2kVA (5.8A)	100%ED	160 (6.29)	453 (17.8)	245 (9.64)	140 (5.51)	30kg/66 lb
KMD-15C	Single-phase 100 VAC, 50/60 Hz	140VA (1.4A)		80 (3.15)	150 (5.90)	120 (4.72)	80 (3.15)	5kg/11 lb
KMD-20C		300VA (3.0A)		130 (5.11)	200 (7.87)			7kg/15 lb
KMD-30C		0.74kVA (3.7A)		180 (7.08)	300 (11.8)			19kg/41 lb
KMD-40C	Single-phase 200 VAC, 50/60Hz	1.04kVA (5.2A)		280 (11.0)	400 (15.7)	200 (7.87)	120 (4.72)	29kg/63 lb
KMD-50C	Single-phase 220 VAC, 60Hz	1.28kVA (6.4A)		380 (14.9)	500 (19.6)			37kg/81 lb

\*Cable, 2 m, included. \*KMD-15C/20C come with a ground plug. \*A different-voltage type (special type) is also available.

## Model KMDT TUNNEL TYPE DEMAGNETIZER



### An example of usage

Caution: The conveyor must be made of nonmagnetic stainless steel or plastic.

### [Application]

These demagnetizers can meet such demagnetizing needs as passing a bucket containing a large amount of small workpieces and being incorporated in a line for continuous demagnetizing by conveyor transfer. Various sizes are available to meet such requirements. They can also be used to demagnetize long workpieces and irregularly shaped workpieces.

### [Features]

- The high heat radiation design enables continuous operation.
- A uniform demagnetizing area can be obtained.
- Almost uniform demagnetization can act on the whole periphery of passing workpieces.

Model	Power Source	Source Capacity (Current)	Working Rate	Gate		Dimensions										Mass	Applicable Cable 2-core (2RNC)			
				Width	Height	B	L	H	b <sub>1</sub>	N	φ d	b <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	h					
KMDT-10A	Single-phase 200 VAC, 50/60 Hz	0.46kVA (2.3A)	100% ED	100 (3.93)	80 (3.15)	210 (8.26)	103 (4.05)	205 (8.07)	60 (2.36)	4	9.5 (0.37)	40 (1.57)	153 (6.02)	133 (5.23)	70 (2.75)	15kg/33.3 lb	1.25mm <sup>2</sup>			
KMDT-16A		1.6kVA (8A)		160 (6.29)	125 (4.92)	280 (11.0)	144 (5.66)	245 (9.64)	80 (3.15)				204 (8.03)	180 (7.08)	60 (2.36)	32kg/70.5 lb				
KMDT-25A	Single-phase 220 VAC, 60 Hz	6kVA (25A)		250 (9.84)	200 (7.87)	400 (15.7)	224 (8.81)	350 (13.7)	150 (5.90)			6	14 (0.55)	70 (2.75)	284 (11.1)	260 (10.2)		75 (2.95)	80kg/177 lb	5.5mm <sup>2</sup>
KMDT-40A		11kVA (55A)		400 (15.7)	315 (12.4)	540 (21.2)	304 (11.9)	460 (18.1)	200 (7.87)						384 (15.1)	350 (13.7)		140kg/308 lb	14mm <sup>2</sup>	

\*The cable and switch are not included. \*A different-voltage type (special type) is also available.

## Model KMDE STATIONARY DEMAGNETIZER

Control unit required additionally



### [Application]

Used to eliminate residual magnetism in magnetized workpieces and tools. Pressing the demagnetizing button can complete demagnetization within a certain time without moving workpieces.

### [Features]

- A magnetomotive force greater than the AC demagnetizer has been set, which works well on hard workpieces such as bearing steel and cutter steel that are difficult to demagnetize with conventional demagnetizers.
- Since workpieces are demagnetized while they are kept stationary on the demagnetizer, it is not necessary to move workpieces, press die materials, SK materials, etc. as when using an AC demagnetizer. Thus, this model is suitable for demagnetization of large workpieces (e.g. molds) that are difficult to move.
- Since demagnetization is carried out according to the attenuation pattern programmed in the control unit, electricity needs to be applied only during demagnetization, thus saving electricity.
- The demagnetizer itself and the control unit are installed separately. Thus, they can be installed in an easy-to-operate place.

### Main unit

Model	Dimensions						Demagnetizing Area	Withstand Load	Electrical Rating	Working Rate	Mass
	L <sub>1</sub>	L <sub>2</sub>	L <sub>e</sub>	B <sub>1</sub>	B <sub>2</sub>	H					
KMDE-1212	230 (9.05)	280 (11.0)	120 (4.72)	120 (4.72)	210 (8.26)	85 (3.34)	120 (4.72) × 120 (4.72)	20kg/44 lb	180 VDC/2.1A	25% ED	15kg/33 lb
KMDE-2525	400 (15.7)	—	250 (9.84)	250 (9.84)	380 (14.9)	150 (5.90)	250 (9.84) × 250 (9.84)	80kg/176 lb	180 VDC/4.8A		75kg/165 lb
KMDE-4040	640 (25.2)	—	400 (15.7)	400 (15.7)	640 (25.2)	220 (8.66)	400 (15.7) × 400 (15.7)	300kg/661 lb	180 VDC/9A		350kg/771 lb

\*The withstand load is based on a uniform load in the work area.

### Applicable control unit

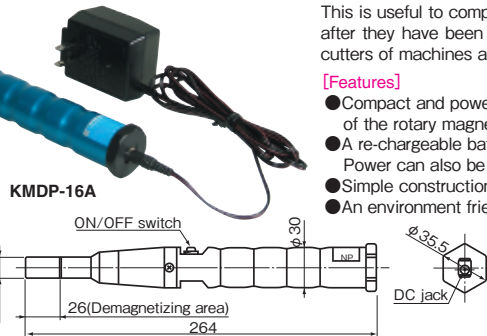
Model	Dimensions					Power	Output	Mass	Applicable Main Unit
	L <sub>1</sub>	L <sub>2</sub>	W	H	h				
EHD-W205B	110 (4.33)	140 (5.51)	175 (6.89)	260 (10.2)	230 (9.05)	Single-phase 200 VAC	180 VDC/5A	4.7kg/10 lb	KMDE-1212/2525
EHD-W210B	190 (7.48)	220 (8.66)	175 (6.89)	290 (11.4)	250 (9.84)	Single-phase 200 VAC	180 VDC/10A	6kg/13 lb	KMDE-4040

## Model **KMDP** PEN TYPE DEMAGNETIZER



For both AC and DC

Environmentally friendly



### [Application]

Recommended where magnetism on the surface of metallic workpieces in general needs to be reduced in a limited area or locally.

This is useful to completely eliminate weak magnetism that remains locally in jigs and workpieces after they have been demagnetized by a large demagnetizer. It is also useful for demagnetizing cutters of machines and punches and guide pins of press dies while they are mounted.

### [Features]

- Compact and powerful as a rare earth magnet having strong magnetic force is used at the end of the rotary magnetic field.
- A re-chargeable battery is used as a power source of the motor. No need to replace the battery. Power can also be supplied with the included AC adapter if the battery has reached its life.
- Simple construction and simple appearance.
- An environment friendly nickel hydrogen battery is used.

Model	Battery Rating	Mass
<b>KMDP-16A</b>	2.4V2000mAh	0.3kg/0.6lb

※The AC adapter (input 100 VAC, 50/60 Hz, output 2.7 VDC, 0.5 A, cord length 1.9 m) is included as a standard accessory.

## Model **KMDH** HANDY TYPE DEMAGNETIZER



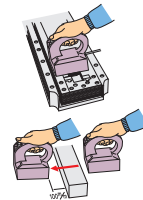
### [Application]

Suitable for demagnetizing tools such as drills, cutting tools, cutters and magnetized slide calipers. These can also be used for demagnetizing large steel plates partially.

### [Features]

- Compact and handy.

Working rate 70% ED  
(Power on 7 minutes and pause 3 minutes)



### How to use

- The demagnetizer is turned on while the pushbutton switch is held pressed and turned off when you release it.
- The button must be held pressed while demagnetizing is going on.
- Turn off the demagnetizer after it has been moved more than 100 mm away from the demagnetized workpiece.



Model	Power Source	Source Capacity	Effective Demag. Width	Dimensions			Mass
				Width	Length	Height	
<b>KMDH-5A</b>	Single-phase 100 VAC, 50/60 Hz	70VA	50 (1.96)	86 (3.38)	106 (4.17)	119 (4.68)	2.3kg/5.1 lb

※The height is up to the grip. ※2 m cord is included. The plug is provided with a ground pin. ※A different-voltage type (special type) is also available. ※The power plug is of tracking resistance type.

## Model **KMDH-P** PINPOINT TYPE DEMAGNETIZER

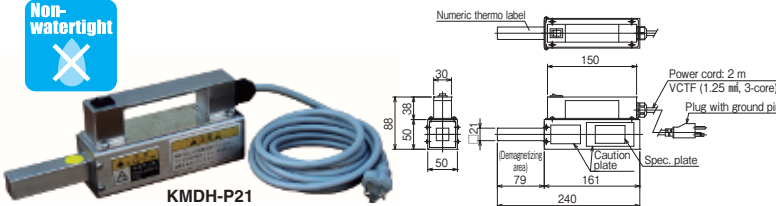


### [Application]

An alternating field is produced at the tip and bottom by an AC power source, which is brought into contact with a workpiece and then moved away. Then the magnetic flux density on the surface is reduced locally. This demagnetizer works effectively in demagnetizing molds and large materials partially.

### [Features]

- Since this demagnetizer produces a strong magnetic field at the tip, it can effectively demagnetize places that are difficult to demagnetize with a conventional table type or handy type demagnetizer.
- The magnetizing effect is powerful, but the attracting force is not strong. Thus, the tip part can be brought into contact with a small area for easy handling.
- A thermo label is attached to the tip part, which warns a temperature rise due to frequent, repeated use. When the thermo label appears, stop using the demagnetizer until it goes out.

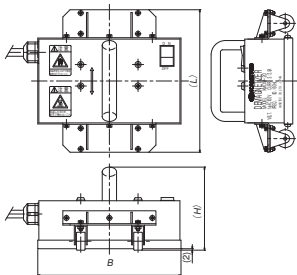


Model	Power Source	Source Capacity	Working Rate	Mass
<b>KMDH-P21</b>	Single-phase 100 VAC, 50/60 Hz	450VA	20% ED, 10 seconds max.	3kg/6 lb

※The power plug is of tracking resistance type.

## Model **KMDM** WHEELED MOBILE DEMAGNETIZER

### Mobile demagnetizer to easily demagnetize large steel plates!



### [Application]

Suitable for demagnetizing large steel plates that are difficult to move.

### [Features]

- This is a demagnetizer that is moved instead of moving a workpiece. Therefore, the entire steel plate can be demagnetized.
- This demagnetizer is equipped with wheels and grip to ensure smooth movement over steel plate.

Model	Power Source	Power Capacity	Working Rate	Effective Demag. Width	Dimensions	Mass
<b>KMDM-20</b>	Single-phase 100 VAC, 50/60 Hz	300/250VA(3A/2.5A) (50/60Hz)	100%ED	130 (5.11)	B200 (7.87) × L199 (7.83) × H116 (4.56)	7kg/15.4 lb

※Power cord, 2 m, included. ※The power plug is of tracking resistance type.

## Model **KMDC** TOOL DEMAGNETIZER



Overheat alarm seal attached

### Demagnetization of magnetized tools such as drills, reamers and cutters and measuring instruments!

### [Application]

Easy demagnetization of a wide variety of magnetized objects including tools such as drills, milling cutters, reamers and cutters, round workpieces and measuring instruments such as slide calipers.

### [Features]

- Light weight, compact and easy operation.
- Fine chips sticking by attraction to drills, reamers, etc. can be removed while they remain mounted on machines.

### How to use

- Power is applied only while the pushbutton switch is held pressed for demagnetization.
- Turn off the demagnetizer after moving it away more than 100 mm from the demagnetized object.
- If the demagnetizer is turned on frequently, the body temperature rises. If the temperature rises too high, it is indicated by an overheat alarm seal. Stop using it for a while.

KMDC-40



Model	Power Source	Source Capacity	Working Rate	Remote Operation	Demag. Hole Dia.	Mass
<b>KMDC-40</b>	Single-phase 100 VAC, 50/60 Hz	75VA	20% ED, 1 minute max.	Momentary input by use of pushbutton	φ40 (1.57)	0.9kg/2 lb

※Cord length 2.5 m (with curled cord). ※The power plug is of tracking resistance type.

# MEASURING INSTRUMENTS

## Model TM TESLA METER

Significant improvement of performance while keeping usability of TM-701!  
New industry standard of handy type



### [Application]

- Measurement of residual magnetism in machined parts, in stamped parts, and in demagnetized parts.
- Measurement of magnetic flux in magnets and magnetism applied products.
- Measurement of magnetic flux of motors.
- Measurement of properties of magnetic materials.

3T (30 kG) supported



AC adapter connection port



USB cable connection port

### Features of TM-801EXP (compared with TM-701)

#### Wider measuring range

- High resolution mode accuracy in measurement of DC magnetic flux density improved.
- Frequency covering range in measurement of AC magnetic flux density expanded. (40 – 500 Hz)

#### Max. 160 hours of continuous operation and high-speed sampling

- Sampling speed in HOLD mode increased by 1.5 times.
- Continuous operation time by use of a battery improved by 20% (130 hours → 160 hours).
- 3-way power supply usable: battery, AC adapter and USB feed.

#### PC operation simpler and more useful

- Digital output of measured data to PC by use of USB.
- Measurement commands controllable from PC by use of USB.
- PC free sample software renewed completely.



## Specifications

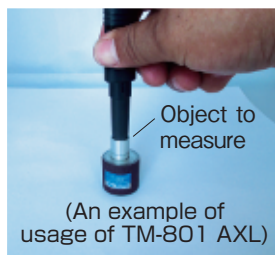
Model		TM-801EXP			Function	Zero reset	Polarity judgment
Object to detect	DC magnetic flux density Polarities (N, S)	AC magnetic flux density 40 – 500 Hz			Max. detect value hold	Auto power off (Cancellable)	
Unit of measurement	mT/G selection			Output	Digital output (USB) / Analog output		
Measurement range	0–3000.0mT			Indication	Detected value	Digital	
Measurement mode	Measurement mode	Measuring range	Resolution	Indication accuracy*1	Operating temperature	0 – +40°C (104° F)	
	DC × 1*	0– 200.0 mT	0.1 mT	± (5% of rdg. + 3digit)	Power source	• Battery: Size AA (1.5 V) × 4 pieces • External power source 5 – 6 VDC (AC adapter/USB feed)	
Measuring range	DC × 10	0– 300.00mT	0.01mT	± (5% of rdg. + 10digit)	Dimensions	140 (5.51) mm high × 64 (2.51) mm wide × 30 (1.18) mm thick	
	Resolution	0– 150.00mT	0.01mT	± (3% of rdg. + 5digit)	Mass	Approx. 250 g/0.55 lb (batteries & probe included)	
Indication accuracy	AC*	150.1– 300.0 mT	0.1 mT	± (5% of rdg. + 20digit)	Accessories	Probe, batteries, carrying case	
		301.0– 1500.0mT	1 mT		Optional	Axial probe (TM-801 AXL) Reference magnetic field (TM-SMF, TM-AMF)	

(1mT = 10G)

\*The measuring range is automatically selected. Note: This meter is not designed for measurement of electromagnetic waves.

\*1 The indication accuracy ±(5% of red. + 3 digits) is ±(5% of indicated value + 3 × resolution). "digit" = Resolution  
Example: Measurement mode DC × 1, indicated value 123.5 mT (Measuring range 0 – 200 mT, resolution 0.1 mT)  
±(123.5 × 0.05 + 3 × 0.1) = ±6.475 mT ≈ ±6.5 mT Accuracy range is 117.0 – 130.0 mT

## Model TM PROBE FOR TESLA METER



- Please keep this probe as a spare. It can be replaced without troublesome calibration. In addition to the standard PRB (transverse type), an axial type (AXL) capable of vertical measurement and having high durability is optionally available.

Model	Applicable Meter	Tip Dimensions	Cord Length	Mass
TM-801PRB	TM-801EXP*	(T)1.0(0.03) × (W)3.5(0.13) × (L)65(2.55)	1000 (39.4)	50g/0.11 lb (including probe cap)
TM-801AXL		φ13(0.51) × 55(2.16)		

\*This can be used with KANETEC conventional models TM-501, TM-610 and TM-701.

## Model TM-SMF / TM-AMF REFERENCE MAGNETIC FIELD FOR TESLA METER

### For calibration and daily check of Tesla Meter!

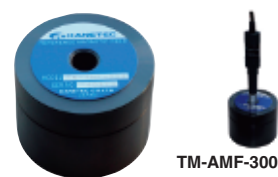
#### For standard probe

Applicable probe: KANETEC TM-201 and later models



#### For axial type probe

Applicable probe: KANETEC TM-601 AXL, TM-701 AXL, TM-801 AXL



#### [Application]

- Daily check of the Tesla Meter.
- When a calibration certificate of the reference magnetic field is obtained, the calibration of the Tesla Meter becomes economical.

#### [Features]

- The closed circuit construction employing a permanent magnet that causes less magnetic force leak is employed.
- Small and light weight. [mm (in)]

Model	Magnetic Flux Density *	Dimensions		Mass
		Dia.	Height	
TM-SMF-003	0.003T ( 30G)		50 (1.96)	Approx. 0.5kg/1.10lb
TM-SMF-050	0.05 T ( 500G)	φ43 (1.69)	40 (1.57)	Approx. 0.4kg/0.88lb
TM-SMF-300	0.3 T (3000G)		30 (1.18)	Approx. 0.3kg/0.66lb
TM-SMF-1000	1 T (10000G)	φ73 (2.87)	74 (2.91)	Approx. 2.0kg/4.40lb

\*The magnetic flux density is a nominal value. The measurement sheet included with the product shows the actual measured value of the product.

Model	Magnetic Flux Density *	Dimensions		Mass
		Dia.	Height	
TM-AMF-003	0.003T ( 30G)		60 (2.36)	Approx. 1.4kg/3.08lb
TM-AMF-050	0.05 T ( 500G)	φ70 (2.75)	55 (2.16)	Approx. 1.3kg/2.86lb
TM-AMF-300	0.3 T (3000G)		50 (1.96)	Approx. 1.2kg/2.64lb

\*The magnetic flux density is a nominal value. The measurement sheet included with the product shows the actual measured value of the product.

\*The products listed in this catalog are subject to change in models, appearance and specifications without notice.



## INTERNATIONAL DEPARTMENT

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