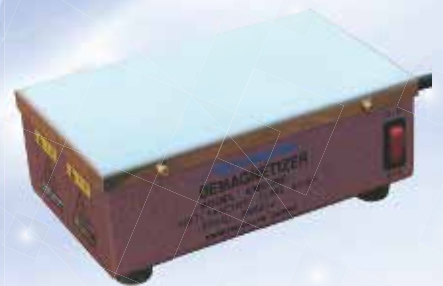
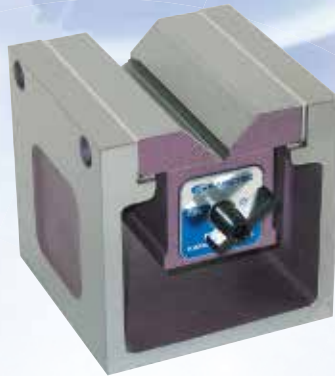


MAGNETIC TOOLS & EQUIPMENT



PRODUCTS GUIDE SELECTED EDITION



 **KANETEC**
<http://www.kanetec.co.jp>

GENERAL
CATALOG

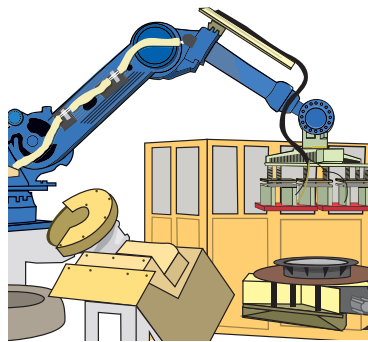


Lifting

Lifma* with Crane



Holder with Automatic Line



Machining



Machining Center



Milling Machine



Electrical Discharge Machine



Grinding Machine



Lathe

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

Electromagnetic Type

Permanent Electromagnetic Type

Permanent Magnetic Type



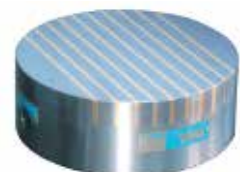
[KET]



[EP-Q]



[RMWH]



[RMA-C]

Demagnetizing



Table Type



[KMD]



Tunnel Type



[KMDT]



Pen Type



[KMDP]

Tesla Meter



Measurement of residual magnetism



[TM-901EXP]

Measurement



Coordinate Measuring Machine



Surface Plate

Magnetic Base



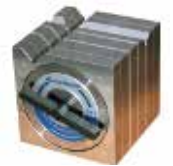
[MB]

V-Block



[KMV]

Square Block



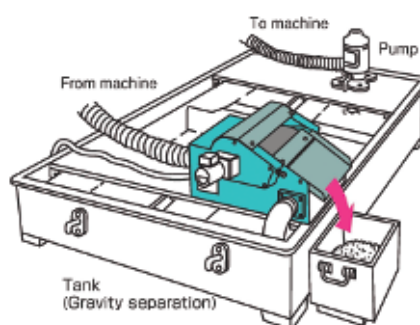
[KYA]

Magclean*

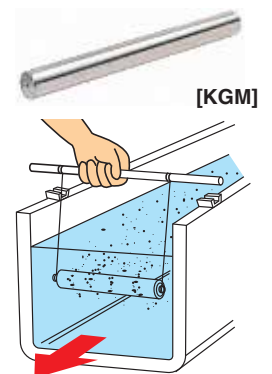


[MS]

Separating



Magnetic Bar



[KGM]

PERMANENT MAGNETIC CHUCKS, ELECTROMAGNETIC CHUCKS

Model RMA SUPER POWERFUL PERMANENT MAGNETIC CHUCK FOR CUTTING



RMA-1530A



RMA-3060A and RMA-4060A require two places for ON-OFF ratchet operation.



[Application]

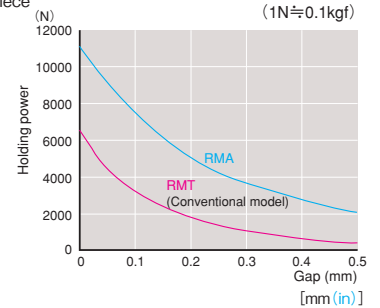
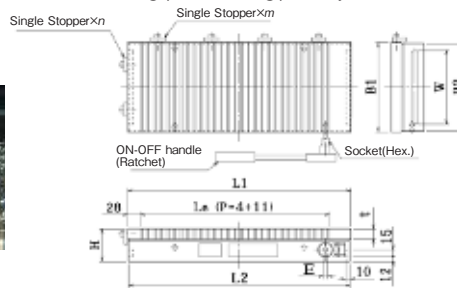
Usable for a wide range of applications from heavy duty cutting to heavy duty grinding. Also suitable for certain small workpieces and thin workpieces.

[Features]

- Super powerful permanent magnetic chucks developed by special design for heavy duty cutting.
- Relatively fine pole pitches make the magnetism work effectively on certain small workpieces and thin workpieces.
- A drop in magnetic force due to air gaps is little, enabling heavy duty cutting of mill scale steel.
- The holding power is very strong, yet the operation of the select ratchet handle is light and safe. The handle is detachable for space saving.
- Usable in wet conditions.

■ RMA type holding power characteristics

● Relation between gaps and holding power by use of □116 test piece



Model	Nominal Size	Work Face				Mounting Face			Height	No. of Stoppers	Handle Hole		Mass
		B ₁	L ₁	t	L _e	B ₂	L ₂	W			n	m	
RMA-1530A	150 (5.90) × 300 (11.8)	150 (5.90)	300 (11.8)	229 (9.01)	300	296	115 (4.52)	69 (2.71)	2 pcs	8 (0.31)	24kg / 53 lb		
	450 (17.7)				450 (17.7)	379 (14.9)						446 (17.5)	36kg / 79 lb
RMA-1545A	150 (5.90) × 450 (17.7)	200 (7.87)	500 (19.6)	500 (19.6)	424 (16.6)	496 (19.5)	165 (6.49)	73 (2.87)	2 pcs	10 (0.39)	56kg / 123 lb		
	600 (23.6)				600 (23.6)	529 (20.8)					596 (23.4)	68kg / 150 lb	
RMA-2050A	200 (7.87) × 500 (19.6)	250 (9.84)	500 (19.6)	500 (19.6)	424 (16.6)	246 (9.68)	215 (8.46)	73 (2.87)	4 pcs	10 (0.39)	71kg / 156 lb		
RMA-2060A	200 (7.87) × 600 (23.6)				596 (23.4)	596 (23.4)					265 (10.4)	102kg / 225 lb	
RMA-2550A	250 (9.84) × 500 (19.6)	300 (11.8)	600 (23.6)	600 (23.6)	544 (21.4)	296 (11.6)	365 (14.3)	73 (2.87)	3 pcs	10 (0.39)	130kg / 293 lb		
RMA-3060A	300 (11.8) × 600 (23.6)				596 (23.4)	596 (23.4)					396 (15.5)	130kg / 293 lb	
RMA-4060A	400 (15.7) × 600 (23.6)	400 (15.7)	600 (23.6)	600 (23.6)	544 (21.4)	396 (15.5)	365 (14.3)	73 (2.87)	4 pcs	10 (0.39)	130kg / 293 lb		

*The ratchet handle (with socket) is included.

Model KET STANDARD RECTANGULAR ELECTROMAGNETIC CHUCK



KET-3060F

Chuck controller required additionally

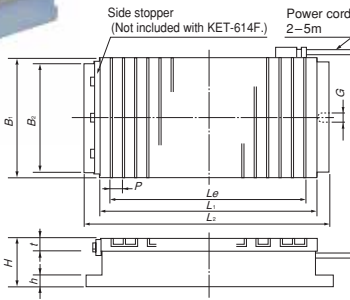


[Application]

Most widely used electromagnetic chucks for grinding operations.

[Features]

- High rigidity, high reliability and high accuracy! KANETEC's original machining technology is used to realize a lavish body-to-case one piece hollow construction, instead of a welded construction, to enhance the rigidity, minimize secular change and improve accuracy of the chucks.
- KANETEC's original light weight design! The chuck weight has been reduced as much as possible in consideration of driving the table of grinders. This design helps contribute to a longer service life of grinders.
- Simple thin type yet strong holding power! The chucks have been designed as low as possible to increase a workpiece mounting space on the grinder. The overall height is as short as 70 mm to 80 mm for small and medium types and 85 mm for large types, thus various types of workpieces can be held. Though thin, KANETEC's original design to secure an electromagnetic coil space ensures strong holding power.
- Resin-bonded structural face plate having little environmental burden employed!



Model	Nominal Size	Work Face				Pole Pitch	Mounting Face			Height	Mounting Hole	Voltage	Current	Power Cord	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	t	L _e		B ₂	L ₂	h								
KET-614F	60 (2.36) × 140 (5.51)	63 (2.48)	140 (5.51)	13 (0.51)	106 (4.17)	8 (2+6) (0.31)	60 (2.36)	170 (6.69)	12 (0.47)	67 (2.63)	8	90 VDC	0.12A	3.5kg / 7 lb			
KET-1025F	100 (3.93) × 250 (9.84)	100 (3.93)	250 (9.84)	21 (0.83)	211 (8.30)	11 (2+9) (0.43)	96 (3.78)	294 (11.5)			10	0.16A	12kg / 26 lb				
KET-1325F	125 (4.92) × 250 (9.84)	125 (4.92)	250 (9.84)	21 (0.83)	212 (8.34)		119 (4.68)	294 (11.5)			10	0.19A	15kg / 33 lb				
KET-1530F	150 (5.90) × 300 (11.8)	150 (5.90)	300 (11.8)	20 (0.78)	240 (9.44)	14 (2+12) (0.55)	144 (5.66)	344 (13.5)	18 (0.70)	70 (2.75)	14	90 VDC	0.20A	2m (78.7)	21kg / 46 lb		
KET-1535F	150 (5.90) × 350 (13.7)												22A	25kg / 55 lb			
KET-1545F	150 (5.90) × 450 (17.7)	200 (7.87)	500 (19.6)	20 (0.78)	408 (16.0)	14 (2+12) (0.55)	144 (5.66)	494 (19.4)	18 (0.70)	70 (2.75)	14	90 VDC	0.29A	32kg / 70 lb			
KET-2040F	200 (7.87) × 400 (15.7)												0.43A	38kg / 83 lb			
KET-2050F	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)	20 (0.78)	464 (18.2)	14 (2+12) (0.55)	194 (7.63)	544 (21.4)	18 (0.70)	70 (2.75)	14	90 VDC	0.34A	47kg / 103 lb			
KET-2060F	200 (7.87) × 600 (23.6)												0.47A	57kg / 125 lb			
KET-2550F	250 (9.84) × 500 (19.6)	250 (9.84)	500 (19.6)	20 (0.78)	500 (19.6)	14 (2+12) (0.55)	240 (9.44)	500 (19.6)	18 (0.70)	70 (2.75)	14	90 VDC	0.56A	67kg / 147 lb			
KET-2560F	250 (9.84) × 600 (23.6)												0.72A	80kg / 176 lb			
KET-3050F	300 (11.8) × 500 (19.6)	300 (11.8)	500 (19.6)	20 (0.78)	451 (17.7)	14 (2+12) (0.55)	290 (11.4)	500 (19.6)	18 (0.70)	70 (2.75)	14	90 VDC	0.68A	94kg / 207 lb			
KET-3060F	300 (11.8) × 600 (23.6)												1.06A				
KET-3090F	300 (11.8) × 900 (35.4)	300 (11.8)	900 (35.4)	20 (0.78)	841 (33.1)	14 (2+12) (0.55)	290 (11.4)	900 (35.4)	18 (0.70)	70 (2.75)	14	90 VDC	1.22A	5m (196)	145kg / 319 lb		
KET-4050F	400 (15.7) × 500 (19.6)												0.96A	114kg / 251 lb			
KET-4060F	400 (15.7) × 600 (23.6)	400 (15.7)	600 (23.6)	20 (0.78)	529 (20.8)	14 (2+12) (0.55)	390 (15.3)	600 (23.6)	18 (0.70)	70 (2.75)	14	90 VDC	1.09A	3m (118)	137kg / 302 lb		
KET-4080F	400 (15.7) × 800 (31.5)												1.42A	182kg / 401 lb			
KET-40100F	400 (15.7) × 1000 (39.4)	400 (15.7)	1000 (39.4)	20 (0.78)	958 (37.7)	14 (2+12) (0.55)	390 (15.3)	1000 (39.4)	18 (0.70)	70 (2.75)	14	90 VDC	1.74A	5m (196)	228kg / 502 lb		
KET-5050F	500 (19.6) × 500 (19.6)												0.93A	142kg / 313 lb			
KET-5060F	500 (19.6) × 600 (23.6)	500 (19.6)	600 (23.6)	20 (0.78)	529 (20.8)	14 (2+12) (0.55)	490 (19.2)	600 (23.6)	18 (0.70)	70 (2.75)	14	90 VDC	1.06A	3m (118)	171kg / 377 lb		
KET-5065F	500 (19.6) × 650 (25.5)												1.30A	185kg / 407 lb			
KET-50100F	500 (19.6) × 1000 (39.4)	500 (19.6)	1000 (39.4)	20 (0.78)	958 (37.7)	14 (2+12) (0.55)	490 (19.2)	1000 (39.4)	18 (0.70)	70 (2.75)	14	90 VDC	1.71A	5m (196)	285kg / 628 lb		
KET-6060F	600 (23.6) × 600 (23.6)												1.48A	3m (118)	205kg / 451 lb		
KET-60100F	600 (23.6) × 1000 (39.4)	600 (23.6)	1000 (39.4)	20 (0.78)	958 (37.7)	14 (2+12) (0.55)	590 (23.2)	1000 (39.4)	18 (0.70)	70 (2.75)	14	90 VDC	3.10A	5m (196)	342kg / 754 lb		
KET-7075F	700 (27.5) × 750 (29.5)												2.87A	3m (118)	299kg / 659 lb		
KET-80100F	800 (31.5) × 1000 (39.4)	800 (31.5)	1000 (39.4)	20 (0.78)	958 (37.7)	14 (2+12) (0.55)	790 (31.1)	1000 (39.4)	18 (0.70)	70 (2.75)	14	90 VDC	4.23A	5m (196)	456kg / 1005 lb		

*If the magnetic force needs not be adjusted, use ES-M. *The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

*Except for KET-614F, only the side stopper is included. (The back stopper is not included.) *Chucks for electric discharge machining are also available. Please contact us. (Model KET-ED)

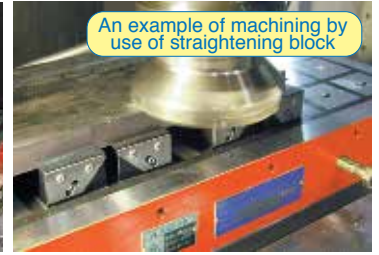
PERMANENT ELECTROMAGNETIC CHUCKS, VACUUM CHUCKS

Model EP-Q PERMANENT ELECTROMAGNETIC CHUCK FOR CUTTING

EP-QS Series

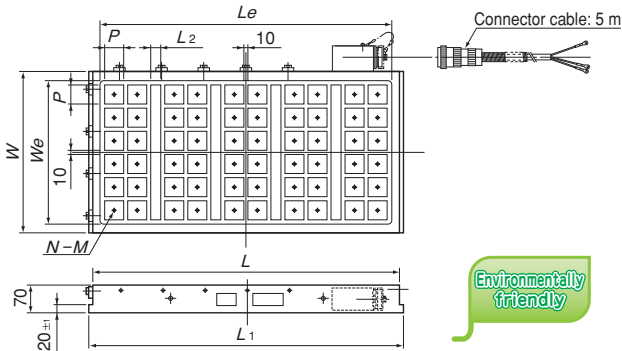


EP-QS5-3060A



An example of machining by use of straightening block

Chuck controller required additionally



Environmentally friendly

[Application]

Suitable for securing workpieces during cutting on milling machines and machining centers.

[Features]

- The power cord is of detachable connector type for easy use. The connector cap is of waterproof type.
- Can be used in wet machining operations.
- The chuck is very thin, 70 mm in height, and light weight.
- Less accuracy change and highly rigid construction.
- Considerable power saving compared with conventional products. (□70: 50% reduction, □50: 70% reduction)
- Magnetization and demagnetization in a very short time.
- Tapped holes on the attractive face can be used to install various blocks to hold workpieces by various methods according to machining operations.
- Straightening blocks are also available that are mounted on the chuck work face to hold workpieces by an induction field. These optional products are very useful for workpieces having irregular attractive faces that for example have steps and distortion and for machining the bottom and side faces of workpieces.

[mm(in)]

Standard Size Model	Work Face		Pole Dimensions				Mounting Face		Tapped Hole on Attractive Face		Mass	Applicable Chuck Master	
	W	L	W _e	L _e	No. of poles	P	L ₂	L ₁	N	M			
EP-QS5	3060A	300 (11.8)	610 (24.0)	252 (9.92)	570 (22.4)	32	50 (1.96)	16 (0.55)	630 (24.8)	32	8 (0.31)	90kg/198 lb	
	4080A	420 (16.5)	800 (31.5)	372 (14.6)	760 (29.9)			60	25 (0.98)	820 (32.2)		60	160kg/352 lb
	50100A	500 (19.6)	960 (37.8)	432 (17.0)	917 (36.1)			84	26 (1.02)	980 (38.5)		84	230kg/507 lb
	60100A	600 (23.6)		552 (21.7)				108				108	280kg/617 lb
EP-QS7	3060A	300 (11.8)	600 (23.6)	252 (9.92)	562 (22.1)	18	70 (2.75)	25 (0.98)	620 (24.4)	18	10 (0.39)	86kg/189 lb	
	4080A	390 (15.3)	800 (31.5)	332 (13.0)	760 (29.9)			32	24 (0.94)	820 (32.2)		32	150kg/330 lb
	50100A	470 (18.5)	1000 (39.4)	412 (16.2)	960 (37.8)			50	25 (0.98)	1020 (40.1)		50	220kg/485 lb
	60100A	620 (24.4)		572 (22.5)				70				70	300kg/661 lb

※Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheating.
 ※The chuck controller and clamp parts are not included. ※The KANETEC chucks work best when a KANETEC chuck controller is used.

Model KVR-AV AUTO VALVE TYPE VACUUM CHUCK

An epoch-making vacuum chuck that requires no masking!

Vacuum system required additionally

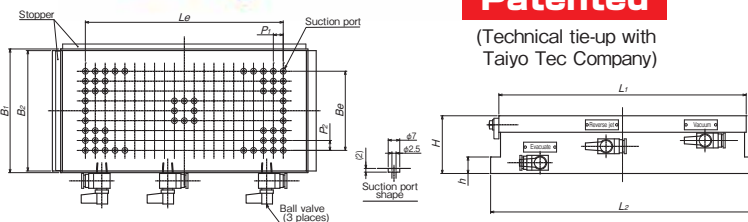


KVR-AV1530



Patented

(Technical tie-up with Taiyo Tec Company)



[Application]

Nonferrous and nonmagnetic materials can be held and machined. These chucks are suitable for grinding plastics, aluminum, brass, stainless steel, ceramic and glass by machine tools. They can also be used for light duty cutting if workpieces can be held firmly.

[Features]

- No masking is required to reduce the setup time: Place a workpiece, apply grinding fluid and turn the valve. That is all required. Since the suction holes outside the workpiece are automatically closed, troublesome masking is not required and grinding can be started soon.
- Easy valve cleaning: An original modular design that causes little clogging due to sludge facilitates maintenance to reduce the running cost.
- Enhanced safety: An original construction is employed that closes the auto valve instantly should a workpiece move during grinding. This design causes no vacuum break and maintains a certain level of holding power.
- Dry operations supported: In dry grinding operations using no grinding fluid, the chuck can be used with minimum necessary masking only.

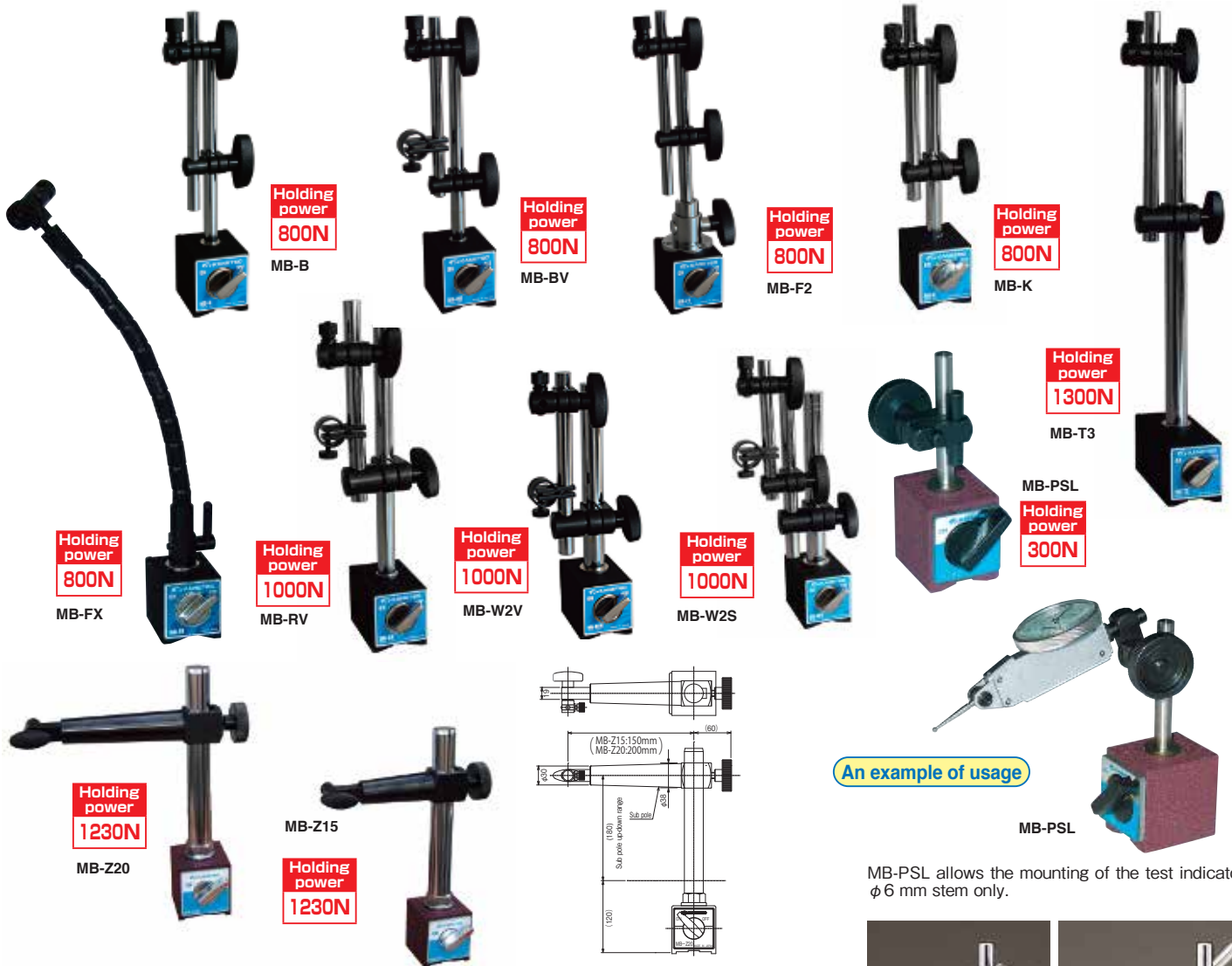
[mm(in)]

Model	Nominal Size	Work Face				Suction Port Pitch		No. of Suction Ports	Mounting Face			Height	Mass	Applicable Vacuum System
		B ₁	L ₁	B _e	L _e	P ₁	P ₂		B ₂	L ₂	h			
KVR-AV1018	100 (3.93) × 175 (6.89)	100 (3.93)	175 (6.89)	57.5 (2.26)	132 (5.20)	12 (0.47)	11.5 (0.45)	72	98 (3.86)	195 (7.68)	20 (0.79)	70 (2.75)	8kg/ 17.6 lb	
KVR-AV1530	150 (5.90) × 300 (11.8)	150 (5.90)	300 (11.8)	96 (5.67)	240 (9.45)			188	146 (5.75)	320 (12.6)			18kg/ 39.7 lb	
KVR-AV2040	200 (7.87) × 400 (15.7)	200 (7.87)	400 (15.7)	144 (6.89)	348 (13.7)			388	196 (7.71)	420 (16.5)			30kg/ 66.1 lb	
KVR-AV3060	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	228 (8.97)	540 (21.2)			908	296 (11.6)	620 (24.4)			66kg/145.5 lb	

※KVR-AV1530, KVR-AV2040 and KVR-AV3060 have places where no suction ports are provided partially. ※Clamp parts are included.

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 μ m or less (1/8 or less of conventional base)
MB-Z20: 8 μ 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 ϕ	Length	Dia ϕ	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)	$\phi 6$ (0.23) $\phi 8$ (0.31)	M6 (0.23)	1.5kg / 3.3 lb	General, standard type.	
MB-BV					14 (0.55)	178 (7.00)	12 (0.47)	150 (5.90)						3-M4 (0.15)	—	1.8kg / 3.9 lb
MB-F2					16 (0.62)	225 (8.85)	14 (0.55)	194 (7.63)	M 8 (0.31) \times 1.25 (0.04)	M8 (0.31) \times 1.25 (0.04)						1.5kg / 3.3 lb
MB-K					20 (0.78)	178 (7.00)	14 (0.55)	165 (6.49)						M 8 (0.31) \times 1.25 (0.04)	M8 (0.31) \times 1.25 (0.04)	2.4kg / 5.2 lb
MB-RV	1000N (100kgf)	73 (2.87)	73 (2.87)	73 (2.87)	16 (0.62)	225 (8.85)	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)	6.6 (0.26) / 8.1 (0.31)			2.5kg / 5.5 lb
MB-W2V	1300N (130kgf)	117 (4.60)	117 (4.60)	117 (4.60)	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)	6.0 (0.23) / 8.1 (0.31)	6.6 (0.26) / 8.1 (0.31)	3.6kg / 7.9 lb	Main pole longest, base largest and holding power greatest.	
MB-T3	800N (80kgf)	58.5 (2.30)	58.5 (2.30)	58.5 (2.30)	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)	6.6 (0.26) / 8.1 (0.31)	1.8kg / 3.9 lb	Flexible type, settable freely.	
MB-FX	1000N (100kgf)	73 (2.87)	73 (2.87)	73 (2.87)	20 (0.78)	178 (7.00)	14 (0.55) 12 (0.47)	165 (6.49) 130 (5.11)	M8 (0.31) \times 1.25 (0.04)	—	M8 (0.31) \times 1.25 (0.04)	6.0 (0.23) / 8.1 (0.31)	6.6 (0.26) / 8.1 (0.31)	2.7kg / 5.9 lb	Two-step sub pole with fine move adjustment.	
MB-W2S	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-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



Consistent and highly accurate measurement



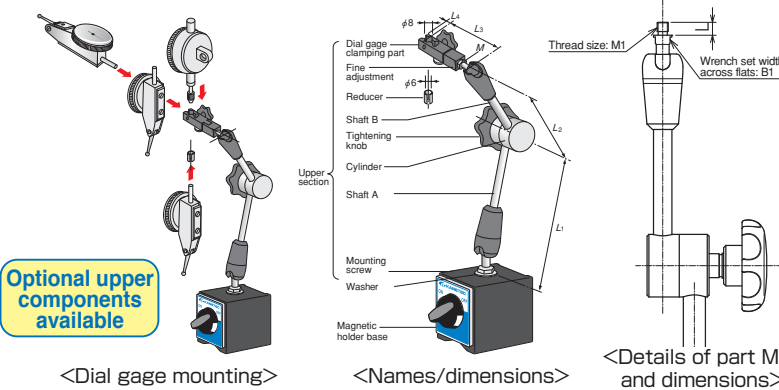
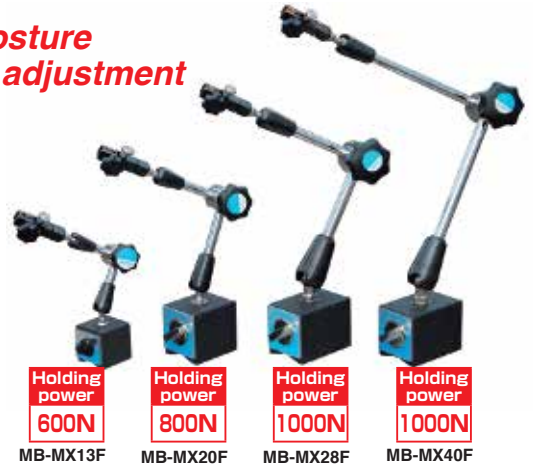
[Application]

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



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

Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm					Arm Mounting Tapped Hole	Indicator Clamp		Mass	Feature
			Width	Length	Height	L ₁	L ₂	L ₃	L ₄	M		Stem Hole	Dovetail		
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) × 7 (0.28)	M6 (0.23) × 1 (0.03)	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)						M8 (0.31) × 1.25 (0.04)	1.4kg/3.1 lb
MB-MX28F		1000N (100kgf)		73 (2.87)		160 (6.29)	115 (4.52)	64 (2.51)			M8 (0.31) × 8 (0.31)	2.0kg/4.4 lb	Standard		
MB-MX40F			220 (8.66)	175 (6.88)	66 (2.59)	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

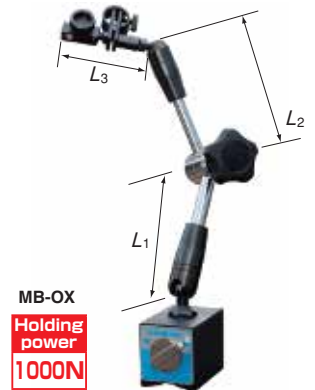
[Application]

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



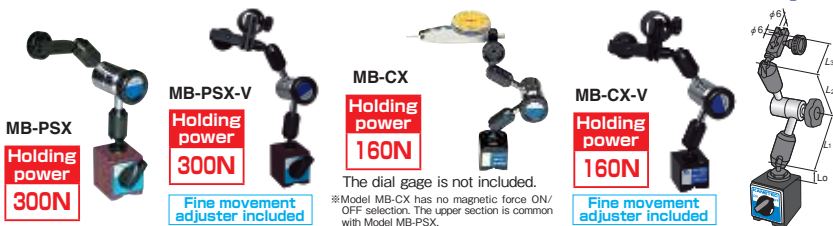
Model	Lock Mechanism	Holding Power	Magnetic Holder Base			Arm			Arm Mounting Tapped Hole	Indicator Clamp		Mass	Accessory
			Width	Length	Height	L ₁	L ₂	L ₃		Stem Hole	Dovetail		
MB-OX	Hydraulic type	1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	140 (5.51)	110 (4.33)	81 (3.18)	M8 (0.31) × 1.25 (0.04)	φ8 (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 ₀	L ₁	L ₂	L ₃		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)	39 (1.53)	M5 (0.19) × 0.8 (0.03)	φ6 (0.23) × 2	6.5 (0.25)	0.38kg/0.83 lb	Small, V attractive face
MB-CX-V		300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	14 (0.55)							57 (2.24)	39 (1.53)
MB-PSX		300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	14 (0.55)	57 (2.24)	39 (1.53)	0.38kg/0.83 lb				Small, magnet switchover	
MB-PSX-V		300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	14 (0.55)	57 (2.24)	39 (1.53)	0.5 kg/1.10 lb				Small, magnet switchover, fine movement adjuster	

*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 liner 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)



DG-15-6

DG-AM-6

DG-X

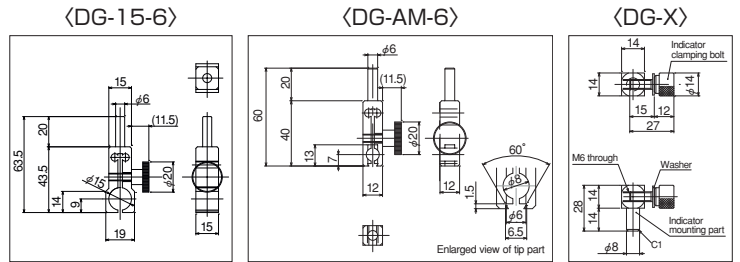
<An example of usage>



$\phi 8$ stem (DG-AM-6)

Dovetail groove (DG-AM-6)

Indicator (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



MB-PB

Holding power 800N

MB-PR

Holding power 1000N

MB-PRW

Holding power 600N

MB-PL

Holding power 1300N



MB-PH

Holding power 1250N



MB-PG

Holding power 1500N



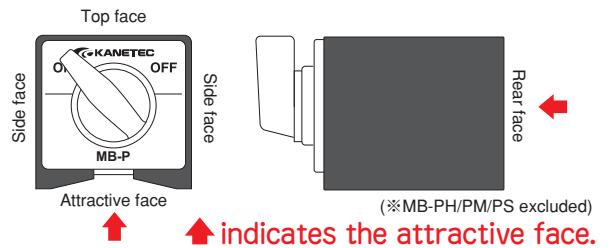
MB-PM

Holding power 600N

MB-PS

Holding power 300N

※If a plate is to be mounted on the top face, be sure to use a nonmagnetic material (e.g. aluminum, SUS304, brass plate). If a magnetic material such as iron is mounted on the top face, the holding power will drop significantly.



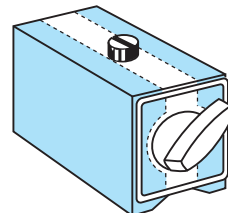
[Application]

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.



Workable area on magnetic holder base

Some working such as drilling is allowed in the [] area.

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)		2-M 8 (0.31) × 1.25 (0.04), depth 7 (0.27)			1.3kg/2.8 lb
MB-PRW	600N (60kgf)		117 (4.60)		M10 (0.39) × 1.25 (0.04), depth 7 (0.27)			1.2kg/2.6 lb
MB-PL	1300N (130kgf)		M12 (0.47) × 1.75 (0.06), depth 11 (0.43)		2.0kg/4.4 lb			
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)

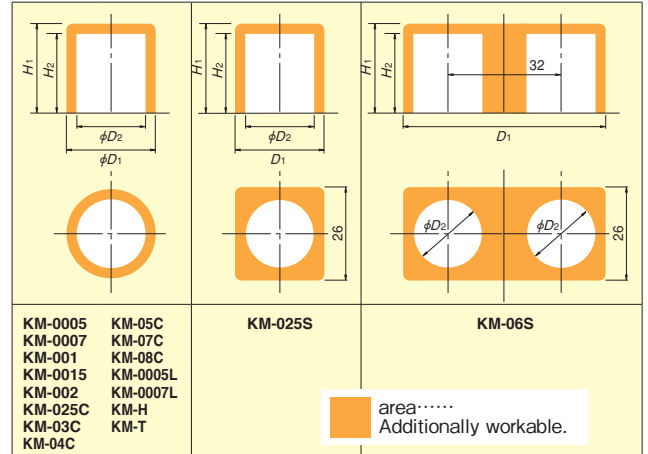
Superior in terms of temperature. The holding power as high as 85% can be maintained at 350 °C when the holding power at 20 °C is 100%. This type can be used up to 400 °C intermittently for a short period of time.

■ 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 ₁	D ₂	H ₁	H ₂			
KM-0005	φ5 (0.19) h7 (0.27) × 8 (0.31)	0 -0.012	0 -0.1	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 -0.015		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 -0.036		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-H0015	φ15 (0.59) h9 (0.35) × 15 (0.59)	0 -0.043		20N (2kgf)			15 (0.59)	14 (0.55)					20g/0.044 lb
KM-H002	φ20 (0.78) h9 (0.35) × 15 (0.59)	0 -0.052		40N (4kgf)			20 (0.78)	18 (0.70)					40g/0.088 lb
KM-H0025	φ26 (1.02) h9 (0.35) × 25 (0.98)	0 -0.052		100N (10kgf)			26 (1.02)	24 (0.94)					25 (0.98)

※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 ₁	D ₂	H ₁	H ₂				
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)					3.8g/0.008 lb	
KM-0010H	φ10 (0.39) × 8 (0.31)	3N (0.3kgf)			—	—	10 (0.39)	9.5 (0.37)	12 (0.47)	Type B	Prepared hole up to 3.0 deep on the rear face allowed.	5g/0.011 lb
KM-001	φ10 (0.39) × 15 (0.59)	8N (0.8kgf)			15 (0.59)	14 (0.55)						11g/0.024 lb
KM-T001	φ10 (0.39) × 18 (0.70)	20N (2kgf)			None	15 (0.59)	15 (0.59)	18 (0.70)	12 (0.47)	Type A	Prepared hole up to 3.0 deep on the rear face allowed.	12g/0.026 lb
KM-0015	φ15 (0.59) × 15 (0.59)				15 (0.59)	14 (0.55)	20g/0.044 lb					
KM-T0015	φ15 (0.59) × 18 (0.70)	50N (5kgf)			None	—	—	18 (0.70)	12 (0.47)	Type B	Not allowed.	23g/0.051 lb
KM-0018H	φ18 (0.70) × 8 (0.31)				15 (0.59)	18 (0.70)	16g/0.035 lb					
KM-002	φ20 (0.78) × 15 (0.59)	40N (4kgf)			None	—	—	18 (0.70)	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)				20 (0.78)	18 (0.70)	45g/0.100 lb					
KM-0025H	φ25 (0.98) × 10 (0.39)	90N (9kgf)			None	—	—	—	—	Type B	Not allowed.	38g/0.083 lb
KM-T0025	φ26 (1.02) × 30 (1.18)	100N (10kgf)			None	—	—	—	—	Type A	Provided.	120g/0.266 lb
KM-T003	φ30 (1.18) × 33 (1.29)	150N (15kgf)			None	—	—	—	—	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.

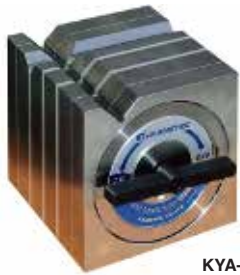
Painting specification

Model	OD × Height	Holding Power	Surface Treatment	Mounting Tapped Hole	Workable Range				Upper Limit of Working Temp.	Tapping	Mass		
					D ₁	D ₂	H ₁	H ₂					
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)			M 8 (0.31), depth 12 (0.47) pitch 1.25 (0.04)	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)					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)	40 (1.57)			25 (0.98)	1000g/2.20 lb	
KM-08C	φ80 (3.14) × 45 (1.77)	1000N (100kgf)				80 (3.14)	66 (2.59)					45 (1.77)	27 (1.06)
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

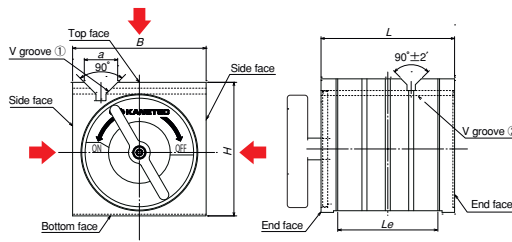
※The holding power is based on a test piece of SS400, 10 mm thick, ground surface.

BLOCKS, HOLDERS

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 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	650N (65kgf)	300N (30kgf)	φ 14 (0.55) - φ 50 (1.96)	φ 14 (0.55) - φ 50 (1.96)	180 (7.08)	180 (7.08)	180 (7.08)	123 (4.84)	38 (1.49)	37kg / 81 lb
KYA-20B		650N (65kgf)		φ 14 (0.55) - φ 50 (1.96)	200 (7.87)	200 (7.87)	200 (7.87)	155 (6.10)		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.

KYA accuracy

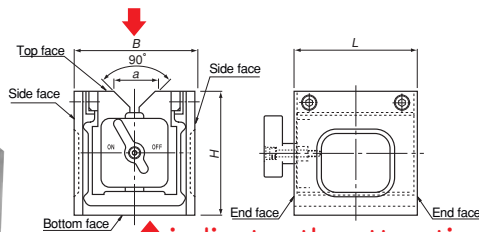
(μm)

Item	Model · Accuracy	KYA-8B		KYA-10B		KYA-13B		KYA-15B		KYA-18B		KYA-20B	
		Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special
Parallelism	Bottom face to top face	10	7	10	7	15	8	15	8	20	9	20	9
	Bottom face to V face	10		10		12		12		15		15	
	End face to end face	20		20		25		25		30		30	
	Side face to V face	20		20		25		25		30		30	
Flatness of bottom face		10		10		15		15		20		20	
Squareness	Bottom face to side face	20	10	20	10	25	12	25	12	30	14	30	14

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.

KYB accuracy

(μm)

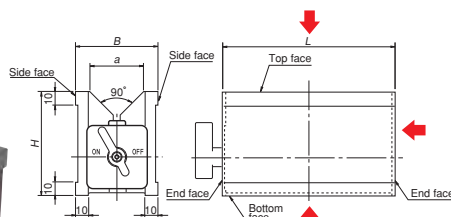
Item	Model · Accuracy	KYB-8A		KYB-10A		KYB-13A		KYB-15A		KYB-18A		KYB-20A	
		Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special	Standard	Special
Parallelism	Bottom face to top face	10	7	10	7	15	8	15	8	20	9	20	9
	Bottom face to V face	10		10		12		12		15		15	
	End face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

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]

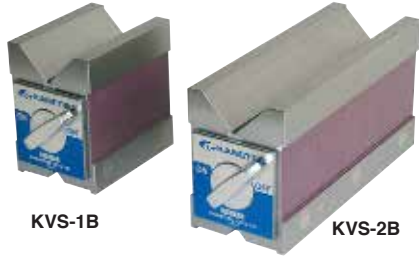
- Workpieces can be held on the top face (V face), bottom face and rear face.
- The ON/OFF lever is detachable. (The length of the opposite sides of the hex hole is 8 mm.)
- Drip-proof and oil-resistant construction.
- Ultra-precision finishing is also available. Please contact us.

[mm (in)]

Model	Holding Power	Applicable Diameter	Dimensions			Mass	
			B	H	L		
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



[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	VE groove	B	a	L	H	
KVS-1B	0.7kN (70kgf)	φ8 (0.31) - φ8 (0.31)	φ8 (0.31)	φ8 (0.31)	75	50	100 (3.93)	105	4.5kg / 9.9 lb
KVS-2B	1.0kN (100kgf)	φ68 (2.67)	φ20 (0.78)	φ20 (0.78)	(2.95)	(1.96)	200 (7.87)	(4.13)	9.0kg / 19.8 lb

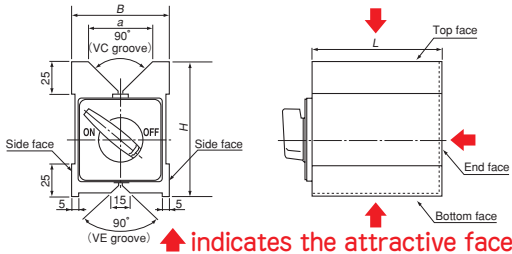
※ The holding power is based on φ20 round steel bar.

※ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

KVS accuracy

(μm)

Model · Accuracy		KVS-1B		KVS-2B	
Item		Standard	Special	Standard	Special
Parallelism	Bottom face to top face	12	7	20	12
	Bottom face to VC groove				
	Top face to VE groove				
	Side face to side face				
Squareness	Bottom face to side face	21	10	21	15



Model KMV MAGNETIC V-BLOCK



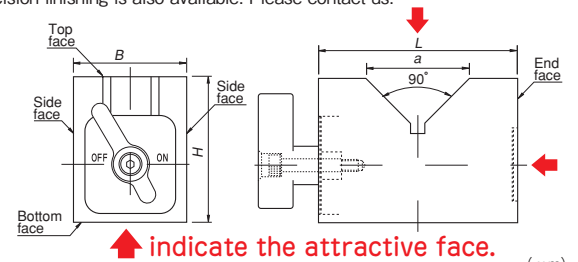
[Application]

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.



Model	Holding Power	Applicable Diameter	Dimensions				Mass
			B	H	L	a	
KMV-50D	150N (15kgf) or over.	φ8 (0.31) - φ50 (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.	φ8 (0.31) - φ80 (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.	φ8 (0.31) - φ125 (4.92)	100 (3.93)	150 (5.90)	90 (3.54)	90 (3.54)	5kg / 11 lb × 2

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

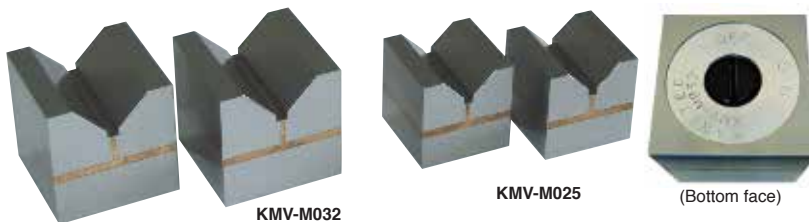
※ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

KMV accuracy

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

※ If you require higher accuracy, specify the required grade. ※ If you require special accuracy on areas not listed in the table, please contact us.

Model KMV-M PERMANENT MAGNETIC MINI V-BLOCK

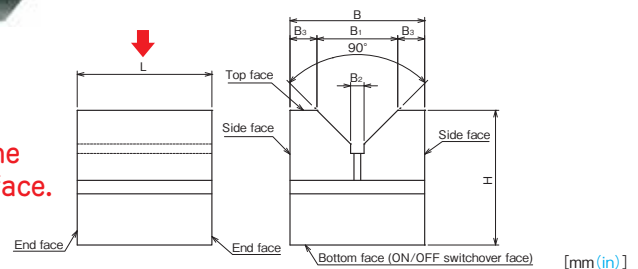


[Application]

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.



KMV-M accuracy

(μm)

Model · Accuracy		KMV-M020	KMV-M025	KMV-M032
Parallelism	Bottom face to top face	10	10	10
	Bottom face to V face			
	Side face to side face			
	Side face to V face			
	End face to end face			
Flatness of bottom face		5	5	5
Squareness	Bottom face to side face	21	21	21
	Bottom face to end face			
Difference in height between V face and top face of one set of blocks		7	7	7

※ If you require higher accuracy, please contact us.

Model	Holding Power	Applicable Diameter	Dimensions					Mass	
			B	B ₁	B ₂	B ₃	H		L
KMV-M020	9.8N (1kgf)	φ15 (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)	φ20 (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)	φ25 (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 φ10 round steel bar.

※ The dimensional accuracy of KMV-M is based on KANETEC in-house standards. If you require higher accuracy, please contact us.

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 ₁		
KPB-1F13	50 (1.96) × 125 (4.92)	250N (25kgf)		125 (4.92)		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)		250 (9.84)		150 (5.90)		3.1kg/6.8 lb × 2

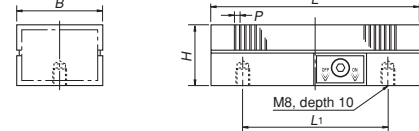
*The holding power is based on a test piece of SS400, 20 mm thick (ground surface) held on the whole face.

Double face type

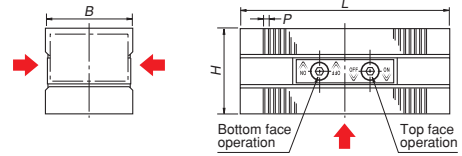
Model	Nominal Size	Holding Power	Dimensions				Pole Pitch	Mass
			B	L	H	P		
KPB-2F13	50 (1.96) × 125 (4.92)	250N (25kgf)		125 (4.92)		50	1.5 (0.5+1.0)	2.5kg/ 5.5 lb × 2
KPB-2F18	50 (1.96) × 180 (7.08)	350N (35kgf)	52 (2.04)	180 (7.08)		50 (1.96)	0.05 (0.02+0.03)	3.6kg/ 8.0 lb × 2
KPB-2F25	50 (1.96) ×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

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

<KPB-1F dimensions>

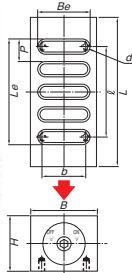


<KPB-2F dimensions>



↑ indicates the attractive face.

Model MMZ ONE-FACE HOLDING RECTANGULAR PERMANENT MAGNETIC MINI CHUCK



↑ indicates the attractive face.

[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.

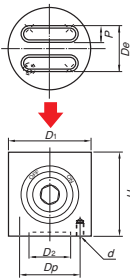
[Features]

- 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	P	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)		3.1kg/ 6.8 lb	

*The holding 800N (80kgf) power is based on a test piece of □50 × 125, S15C.

Model MMC ONE-FACE HOLDING ROUND PERMANENT MAGNETIC MINI CHUCK



↑ indicates the attractive face.

[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.

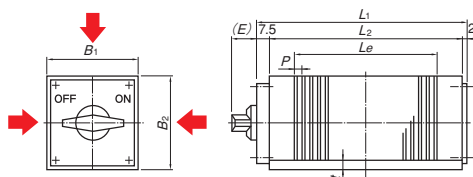
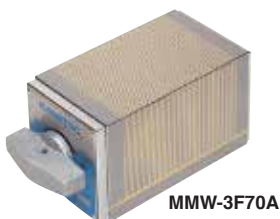
[Features]

- 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 ₁	D _e	P	D _p	D ₂	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)		2.2kg/ 4.8 lb

*The holding power is based on a test piece of □50 × 125, S15C.

Model MMW THREE-FACE HOLDING PERMANENT MAGNETIC MINI CHUCK



↑ indicate the attractive face.

[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 ₁	B ₂	L ₁	L ₂	E	Le	t	P			
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)			25.5 (1.00)			0.05 (0.02+0.03)			4.0kg/8.8 lb

*The holding power is based on a test piece of □50 × 125, 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.

LIFTING MAGNETS

Model LPR-VN SMALL PERMANENT MAGNETIC LIFMA*

All types for steel plates and round steel bars!



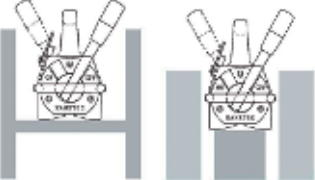
Double safety measures employed

- Safety stopper
- Handle lock

When operating the handle of LPR-VN75 and LPR-VN150, be sure that the safety stopper will not interfere with the lifting fixture.

Narrowest handle operating angle in the industry
Patented

Exhibits its ability in lifting section steel such as H-section steel and workpieces in small space.



Precautions for use
When you plan to use the Lifma for special steel materials such as hardened materials, please consult with us prior to purchasing the Lifma. The permanent magnetic Lifma LPR-VN Series are not of waterproof construction. Ensure no water will enter or adhere to them. Rust and scratches on the attractive face affect the holding power adversely. Repair it periodically.

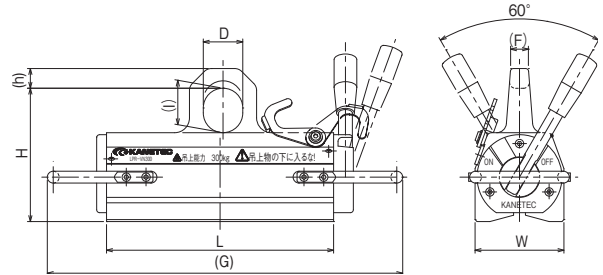
Permanent magnetic Lifma with enhanced operability and safety.

[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.

[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.



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)			15 (0.59)		5.5kg/ 12.1 lb
LPR-VN150	150kg/ 330 lb	100kg/ 220 lb	90 (3.54)	130 (5.11)	260 (10.2)		135 (5.31)	40 (1.57)		45 (1.77)		8kg/ 17.6 lb
LPR-VN300	300kg/ 661 lb	200kg/ 440 lb		230 (9.05)	360 (14.1)	20 (0.78)				18 (0.70)		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*

Permanent magnetic Lifma with smooth operation and enhanced safety realized by pursuing the optimum magnetic circuit to the limit.

All types for steel plates and round steel bars!



Optimum magnet array realized by KANETEC's original magnetism analysis technology.

Patented

Smooth handle operation for thin sheets!

Double handle lock mechanism for enhanced safety

Design registered

Front & rear guards (grips) provided. Protects the main unit. Easy to move and position the Lifma.

Handle fixing groove when magnetic force ON
Handle fixing stopper

Sizes of round steel workpieces to lift expanded.

[Application]

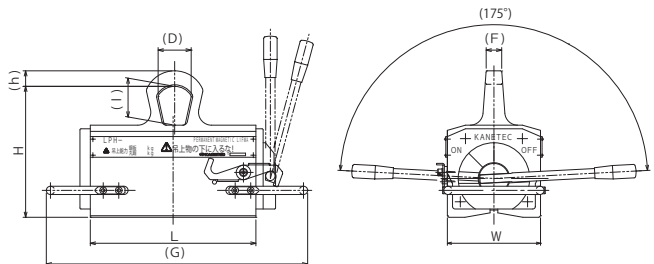
Permanent magnetic type lifting magnets used as a lifting section of cranes and hoists for transportation of steel materials in warehouses and machining shops or for loading and unloading workpieces to and from machine tools. These are suitable for transporting semi-finished products having a flat surface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

Precautions for use

When you plan to use the Lifma for special steel materials such as hardened materials, please consult with us prior to purchasing the Lifma. The permanent magnetic Lifma LPH Series are not of waterproof construction. Ensure no water will enter or adhere to them. Rust and scratches on the attractive face affect the holding power adversely. Repair it periodically.



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)	30 (1.18)		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)			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

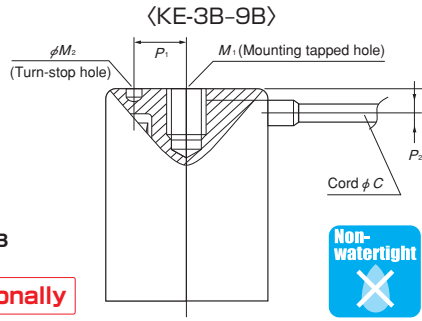
*The lifting capacity is indicated by a value that is a third (safety factor 3) of the max. holding power.

MAGNETIC HOLDERS

Model KE-B ELECTROMAGNETIC HOLDER



KE-5B



[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.)
- Electrical control can be used for turning on and off the magnetic force and for remote operation.
- Usable continuously.
- Finished by plating.

Rectifier required additionally

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

Model	Nominal Size	Max. Holding Power	Mounting Hole			Power Cord		Voltage	Current	Working Rate	Applicable Rectifier	Mass
			M ₁	M ₂	P ₁	C	P ₂					
KE-1B	φ 10 (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	15g/0.03 lb
KE-1.5B	φ 15 (0.59) × 40 (1.57)	18N (1.8kgf)									RH-M303A-6/24, -C1, -C2	
KE-2B	φ 20 (0.78) × 40 (1.57)	28N (2.8kgf)	M6 (0.23) × 1.0 (0.03) Depth 12 (0.47)	φ 4 (0.15) Depth 2 (0.07)	10 (0.39)	φ 3.5 (0.13)	7 (0.27)	24 VDC	0.07A	100% ED	KR-T101A-6/24	35g/0.07 lb
KE-3B	φ 30 (1.18) × 40 (1.57)	180N (18kgf)									RH-M303A-6/24, -C1, -C2	
KE-4B	φ 40 (1.57) × 40 (1.57)	400N (40kgf)	M8 (0.31) × 1.25 (0.04) Depth 15 (0.59)	φ 4 (0.15) Depth 3 (0.11)	15 (0.59)	8 (0.31)	8.5 (0.33)	24 VDC	0.07A	100% ED	RH-M105B-24	60g/0.13 lb
KE-5B	φ 50 (1.96) × 50 (1.96)	590N (60kgf)									10 (0.39)	
KE-6B	φ 60 (2.36) × 60 (2.36)	1080N (110kgf)	M10 (0.39) × 1.5 (0.05) Depth 15 (0.59)	φ 5 (0.19) Depth 4 (0.15)	18 (0.70)	φ 5.9 (0.23)	10 (0.39)	90 VDC	0.12A	100% ED	KR-N101A	560g/1.23 lb
KE-7B	φ 70 (2.75) × 60 (2.36)	1470N (150kgf)									RH-N103A	
KE-8B	φ 80 (3.15) × 60 (2.36)	1960N (200kgf)	M10 (0.39) × 1.5 (0.05) Depth 15 (0.59)	φ 6 (0.23) Depth 6 (0.23)	20 (0.78)	φ 5.9 (0.23)	12 (0.47)	90 VDC	0.19A	100% ED	RH-M102C	1.0kg/2.20 lb
KE-9B	φ 90 (3.54) × 60 (2.36)	3230N (330kgf)									RH-M105B	
											RH-M205B	1.4kg/3.08 lb
											RH-M210B	2.2kg/4.85 lb

*Cord length 0.3 m (0.25 m lead for KE-1B and KE-1.5B only)

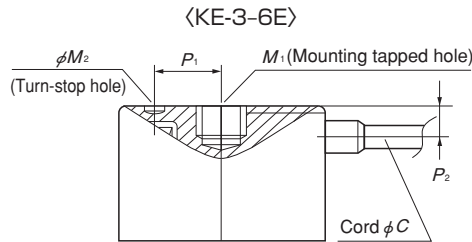
1N=0.1kgf

*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 KE-D·E THIN ELECTROMAGNETIC HOLDER



KE-4E



[Application]

Thin electromagnetic holders suitable for a robotic hand as they provide vertical motion in a certain range in limited space.

[Features]

- Special cables that have specially high durability against bending and vibration are used. (Employed in all models except for KE-2D.)
- Usable continuously.
- Finished by plating.

Rectifier required additionally

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

Model	Nominal Size	Max. Holding Power	Mounting Hole			Power Cord		Voltage	Current	Working Rate	Applicable Rectifier	Mass
			M ₁	M ₂	P ₁	C	P ₂					
KE-2D	φ 20 (0.78) × 25 (0.98)	18N (1.8kgf)	M4 (0.15) × 0.7 (0.02) Depth 8 (0.31)	φ 2.1 (0.08) Depth 2.5 (0.09)	7.5 (0.29)	-	-	24 VDC	0.04A	100% ED	KR-T101-6/24	30g/0.06 lb
KE-3E	φ 30 (1.18) × 25 (0.98)	80N (8kgf)	M6 (0.23) × 1.0 (0.03) Depth 12 (0.47)	φ 4 (0.15) Depth 2 (0.07)	10 (0.39)	φ 3.5 (0.13)	7.5 (0.29)	24 VDC	0.09A		100% ED	
KE-4E	φ 40 (1.57) × 25 (0.98)	220N (22kgf)								RH-M105B-24		
KE-5E	φ 50 (1.96) × 30 (1.18)	490N (50kgf)	M8 (0.31) × 1.25 (0.04) Depth 15 (0.59)	φ 5 (0.19) Depth 3 (0.11)	18 (0.70)	φ 3.5 (0.13)	8 (0.31)	90 VDC	0.12A	100% ED	KR-N101A	190g/0.42 lb
KE-6E	φ 60 (2.36) × 30 (1.18)	880N (90kgf)									RH-N103A	
			M8 (0.31) × 1.25 (0.04) Depth 15 (0.59)	φ 5 (0.19) Depth 4 (0.15)	20 (0.78)	φ 3.5 (0.13)	9.5 (0.37)	90 VDC	0.05A	100% ED	RH-M105B	380g/0.83 lb
											RH-M102C	
											RH-M210B	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.

1N=0.1kgf

Model KE-R AUTO RELEASE TYPE ELECTROMAGNETIC HOLDER

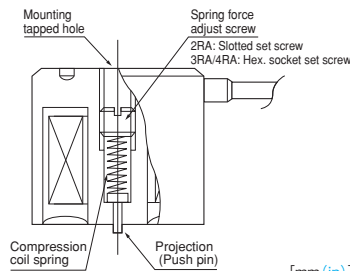
Rectifier required additionally



KE-2R



KE-3RA



[Application]

Suitable as a hand of industrial robots for transportation of press workpieces that are small and light to make them difficult to be released by their own weight only.

[Features]

- Special cables that have specially high durability against bending and vibration are used. (Employed in all models except for KE-2R.)
- The workpiece is released quickly by the spring force of the projection in the center of the attractive face. The spring force can be adjusted according to workpiece conditions.
- The workpiece can be attracted and released smoothly.
- Finished by plating.
- Usable continuously.

*Use these holders for workpieces whose surface where the holder comes in contact is not rough or has no holes. These holders are not suitable either for thin sheets that may be deformed by the pressing force.

Model	Nominal Size	Max. Holding Power	Center Tapped Hole on Back	Voltage	Current	Working Rate	Applicable Rectifier	Mass
KE-2R	φ 20 (0.78) × 25 (0.98)	5N (0.5kgf)	M5 (0.19) × 0.8 (0.03) Depth 5 (0.19)	24 VDC	0.04A	100% ED	KR-T101A-6/24 RH-M303A-6/24, -C1, -C2 RH-M105B-24	50g /0.11 lb
KE-3RA	φ 30 (1.18) × 25 (0.98)	40N (4kgf)	M6 (0.23) × 1.0 (0.03) Depth 6 (0.23)		0.09A			100g /0.22 lb
KE-4RA	φ 40 (1.57) × 25 (0.98)	100N (10kgf)	M6 (0.23) × 1.0 (0.03) Depth 7.5 (0.29)		0.12A			200g /0.44 lb

*The projection is provided in the center of the attractive face; φ 2 φ max. length 1mm for KE-2R and φ 2.5 φ max. length 1 mm for KE-3RA and 4RA. *Cord length 0.3 m (0.2 m lead for KE-2R only) *The max. holding power is based on a test piece of SS400, 10 mm thick, ground surface held on the whole area.

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

Model **KEP** PERMANENT ELECTROMAGNETIC HOLDER



Electromagnetic release



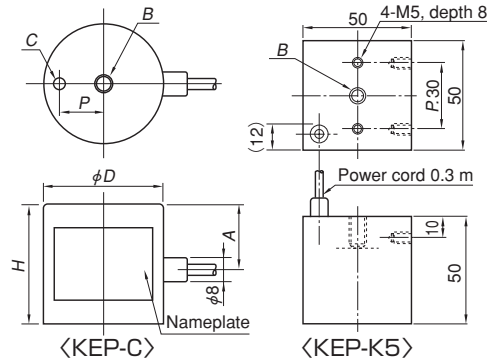
KEP-3C



KEP-5C



KEP-K5



Rectifier required additionally

How to use

Obtain 24 VDC power source. Connect the power cord with positive and negative wires as shown below:

- Connect the black wire of the cord to the positive terminal of the power source.
- Connect the white wire of the cord to the negative terminal of the power source.

If the positive and negative wires are reversed, workpieces cannot be released.

Released only at power on

The power-on time must be 5 seconds or less. The power-off time must be 10 times or longer. (30 seconds or less for KEP-K.)

Residual holding power

As an inevitable nature of permanent electromagnetic holders, 3% to 4% of the holding power will remain as residual holding power after the workpiece has been released. If the weight of the lifted workpiece is smaller than this holding power, it may not be released. In such a case, the workpiece can be released easily by attaching a thin nonmagnetic film on the attractive face. Note, however, that the holding power will drop as the square of clearance.

[Features]

- No fear of accidents by fallen workpieces due to power failure and no heat generated by continuous power on. These features make these holders suitable for long-hour holding. Workpieces are held by a permanent magnet, but its ON/OFF is controlled electrically.
- The electromagnetic release type that keeps the magnetic force off when power is being supplied. Normally, the magnetic force is kept ON.
- An uninterruptible power supply is not required.
- The square type (KEP-K) is suitable for picking up small parts from corners of containers, etc. and picking up doughnut-shaped workpieces.

Model	Dimensions						Max. Holding Power	Voltage	Current	Working Rate	Applicable Rectifier	Mass
	ϕD	H	P	A	B	C						
KEP-3C	30 (1.18)	40	10 (0.39)	22	M6(0.23) Depth 10 (0.39)	$\phi 4$ (0.15) Depth 3 (0.11)	150N (15kgf)	24 VDC	0.45A	10% ED	RH-M303A-6/24 RH-M303A-6/24-C1 RH-M303A-6/24-C2 KR-T101A-6/24	0.17kg/ 0.37 lb
KEP-4C	40 (1.57)	40	15 (0.59)	22	M6(0.23) Depth 10 (0.39)	$\phi 4$ (0.15) Depth 3 (0.11)	250N (25kgf)		0.54A			0.31kg/ 0.68 lb
KEP-5C	50 (1.96)	50	18 (0.70)	25	M8(0.31) Depth 13 (0.51)	$\phi 5$ (0.19) Depth 4 (0.15)	340N (35kgf)		0.58A			0.6 kg/ 1.32 lb
KEP-7C	70 (2.75)	60	20 (0.78)	35	M10(0.39) Depth 16 (0.62)	$\phi 6$ (0.23) Depth 6 (0.23)	880N (90kgf)		0.50A			1.5 kg/ 3.30 lb
KEP-9C	90 (3.54)	60	20 (0.78)	35	M10(0.39) Depth 16 (0.62)	$\phi 6$ (0.23) Depth 6 (0.23)	1470N (150kgf)		0.45A			2.4 kg/ 5.29 lb
KEP-K5	50(1.96)	50(1.96)	50(1.96)	—	M8(0.31) Depth13 (0.51)	—	250N (25kgf)		0.43A			50% ED

※ The max. holding power is based on a test piece of SS400, 20 mm thick, ground surface held on the whole area. Therefore, the lifting capacity is normally a third or less of the max. holding power. ※ Cord length 0.3 m.

Model **KE-H** HYBRID HOLDER

Controller required additionally



KE-4HA



KE-5HA



KE-6HA

Model	Size	Max. Holding Power	Center Tapped Hole on Back	Voltage	Current	Working Rate	Applicable Rectifier	Mass
KE-2HA	$\phi 20$ (0.78) × 25(0.98)	50N (5kgf)	M4(0.15) × 0.7(0.02) Depth 6(0.23)	24 VDC	0.07A	100% ED	RH-H303A RH-H303A-C2	60g/ 0.13 lb
KE-3HA	$\phi 30$ (1.18) × 40(1.57)	200N (20kgf)	M6(0.23) × 1.0(0.03) Depth 6(0.23)		0.11A			140g/ 0.31 lb
KE-4HA	$\phi 40$ (1.57) × 40(1.57)	400N (40kgf)			0.15A			280g/ 0.61 lb
KE-5HA	$\phi 50$ (1.96) × 50(1.96)	700N (70kgf)	M8(0.31) × 1.25(0.04) Depth 10(0.39)		0.2 A			530g/ 1.17 lb
KE-6HA	$\phi 60$ (2.36) × 60(2.36)	1000N (100kgf)			0.22A			960g/ 2.11 lb
KE-8HA	$\phi 80$ (3.15) × 60(2.36)	1800N (180kgf)			M10(0.39) × 1.5(0.05) Depth 12(0.47)			0.28A

※ Cord length 0.3 m. (KE-2HA: 0.2 m)

※ The max. holding power is based on a test piece of SS400, ground surface held on the whole area. Therefore, the lifting capacity is normally a third or less of the max. holding power.

Test piece thickness: KE-2HA to 4HA ... 10 mm, KE-5HA to 8HA ... 20 mm

[Application]

Suitable for robot hands and such systems that require high-speed operations such as repeated transfer in automated lines.

[Features]

- Very little residual holding power allows workpieces to be released quickly. This enables high-speed operation; for example, light weight workpieces can be attached/detached 5 to 6 times per second.
- Because these holders are of permanent electromagnetic type, the holders consume little power and generate little heat, making these holders suitable for continuous, long-hour operation.
- The holding power is switchable at two stages; High and Low by turning on and off the power supply. The reverse supply of power releases workpieces. This enables a wide variety of usage. (When at "Low," the holding power is about 1/3 of that at "High.")
- The powerful rare earth magnet offers high holding power in spite of its small size.

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

※ Allowable temperature: The electromagnetic holders KE, permanent electromagnetic holders KEP and hybrid holders KE-H must be used under the conditions of ambient temperature 40°C or below and temperature of workpieces to hold 50°C or below. For higher temperature, please contact us.

※ The holding power of KE-B, KE-E (D) and KE-RA (R) on various thickness of steel plates and the holding power relative to various clearance are as shown by the graphs.

※ The max. holding power is the power that can be obtained under the most favorable conditions including materials, shapes and finishes of workpieces to hold. Therefore, for practical use, choose a suitable model in consideration of a large drop in the holding power depending on situations. Generally, the lifting capacity drops to a half or below of the holding power obtained from the graphs. If you plan to use holders in particular situations such as for workpieces having holes or

grooves on the attractive face to disable the utilization of the whole area or where big acceleration (G) will be applied to workpieces to be held and transported, please contact us.

※ The electromagnetic holders have residual magnetism even after they are powered off. If the mass of the workpiece is greater than the residual holding power, the workpiece will come off, but if not, it is usually necessary to use a rectifier equipped with a reduction-of-magnetization function by reverse excitation, except for the holders equipped with the automatic release function.

※ The electromagnetic holders are not of drip-proof construction. If drip-proof holders are required, please contact us.

※ If you want to use an uninterruptible power supply as a rectifier for electromagnetic holders, please consult with us in advance.

HAND LIFMA, MAGHAND

Model HL HAND LIFMA*



HL-15

HL-20A

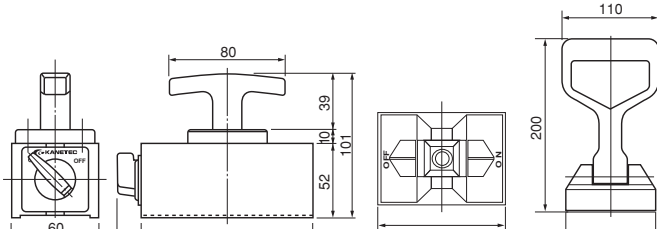
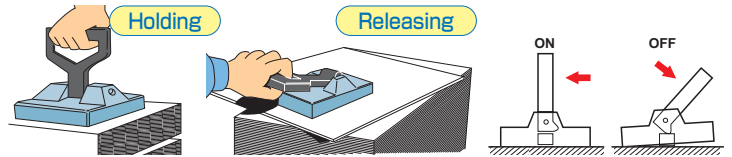
[Application]

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 HMP HANDY HOLDER



HMP-25
Short type

HMP-80
Long type

[Features]

- Suitable for carrying cut pieces and scraps and for taking out small pieces.
- Magnetic force turned ON and OFF only by gripping the handle.
- Performs carrying and sorting and work instead of your hand.



Here is
the Video.

Model	Type	Object	Weight
HMP-25	Short type	Below 5kg*	1.1kg
HMP-80	Long type		2.1kg

*▽▽▽ surface

However, please note that the holding power varies depending on the plate thickness and material.

Model HMC MAGHAND*

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



HMC-50A

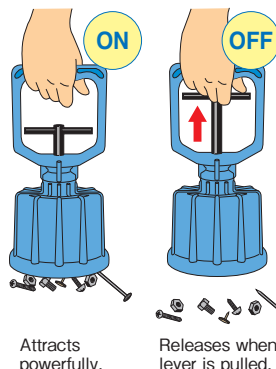
HMC-10A

HMC-T10A

HMC-T50A

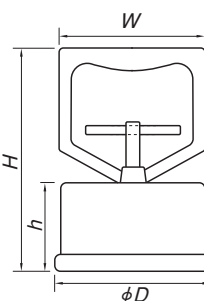
[Application]

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.



Attracts
powerfully.

Releases when
lever is pulled.



[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>

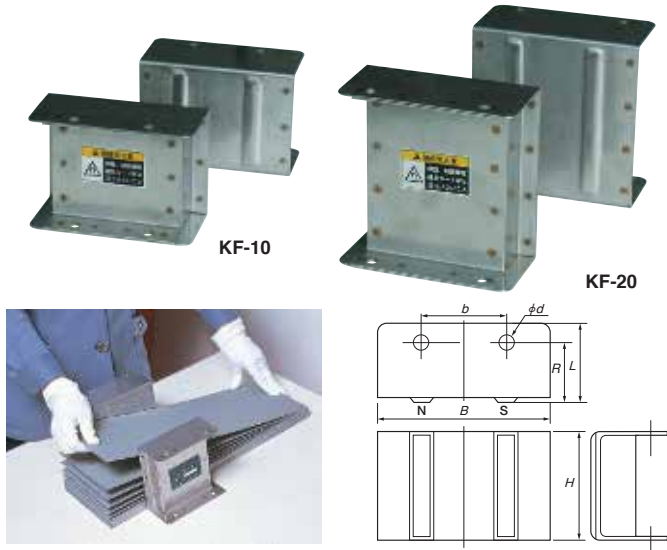
- Capacity: M10 plain washers ... about 0.6 kg
- M4 × 10 screws about 0.7 kg

Model	Dimensions				Mass
	φD	H	h	W	
HMC-10A		227 (8.93)			0.9kg/1.98 lb
HMC-50A	114 (4.48)	500 (19.6)	85 (3.34)		1.5kg/3.30 lb
HMC-75A		750 (29.5)			1.9kg/4.20 lb
HMC-T10A		241 (9.48)		104 (4.09)	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

FLOATER, MAGCLEAN

Model KF STEEL PLATE SEPARATOR "FLOATER"*

Model KF STANDARD FLOATER*



[Features]

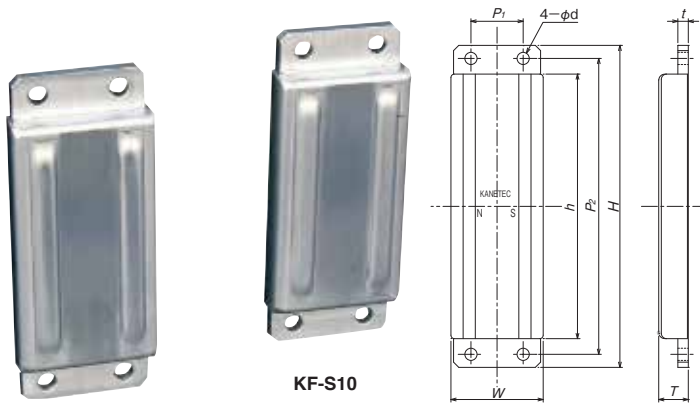
- Standard type using a high-performance ferrite magnet. Can be mounted on machines easily and several units can be coupled according to size, shape and weight of steel plates.

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	No. of holes	ϕd	b	
KF-5B	65 (2.55)	87 (3.42)	55.5 (21.8)	45.5 (1.79)	4	8 (0.31)	40 (1.57)	1.0kg/ 2.2 lb×2
KF-10	125 (4.92)		61.5 (2.42)	51.5 (2.02)			56 (2.20)	4.4 lb×2
KF-20	210 (8.26)	127 (5.00)	66.5 (2.61)	56.5 (2.22)			80 (3.15)	2.5kg/ 5.5 lb×2
KF-30		254 (10.0)	71.5 (2.81)	59.5 (2.34)			150 (5.90)	7.0kg/ 15 lb×2
KF-40							11 (0.43)	12.0kg/ 26 lb×2

Model KF-S SLIM POWERFUL FLOATER*

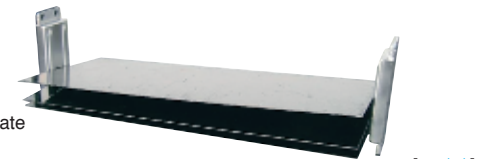
Very slim and light weight!



[Features]

- The employment of a powerful rare earth magnet has significantly reduced the thickness to only 17 mm and the weight, but offers the separating performance equivalent to that of the standard type.
- This type can be mounted in various places such as direct mounting on a wall face and mounting in a very narrow place.

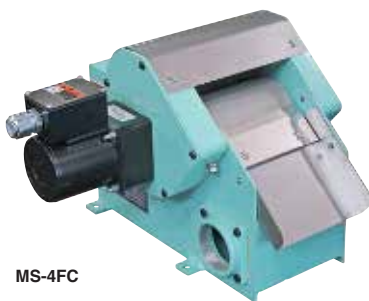
An example of steel plate separation by KF-S10



Model	Dimensions							Mass	
	W	h	P ₁	P ₂	ϕd	H	t		T
KF-S10	98 (3.86)	152 (5.98)	115 (4.52)	170 (6.69)	7 (0.28)	130 (5.12)	6 (0.24)	17 (0.66)	0.56kg/1.23 lb×2
KF-S15	53 (2.09)		30 (1.18)			185 (7.28)			0.8 kg/1.76 lb×2
KF-S20	206 (8.11)	225 (8.86)	240 (9.45)			1.05kg/2.31 lb×2			

Model MS-F·FH·FHP MAGCLEAN*

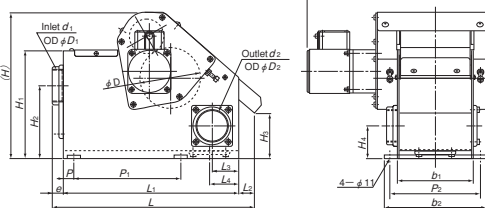
Magnetic coolant separator



[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]

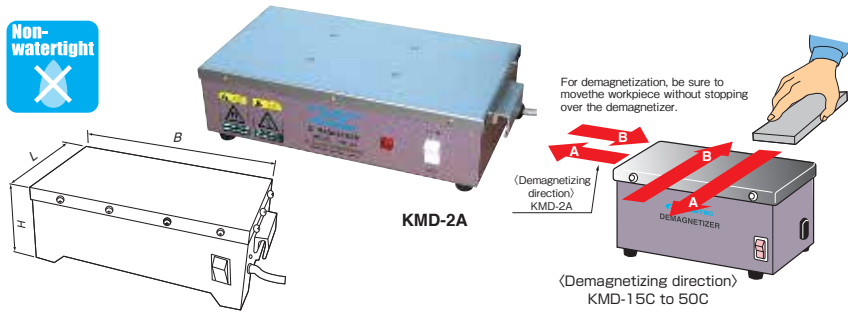
- The construction of a stationary magnet and a rotary outer drum shell has no magnet in the area of the rake plate to allow smooth discharge of sludge. (The life of the rake plate is also prolonged.)
- The magnetic drum rotation drive construction has been modified to improve durability significantly.
- 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				
	High mag. force	Super high mag. force	Super high mag. force				L	B	H	L ₁	L ₂	L ₃	L ₄	e	P	P ₁	P ₂	b ₁	b ₂	H ₁	H ₂	H ₃	H ₄	D	D ₁	d ₁		D ₂	d ₂		
MS-2FC	MS-2FCH	MS-2FCHP	20L/min	3-phase 200 VAC/ 220 VAC, 50/60 Hz	25W	375 (14.7)	278 (10.9)	330 (12.9)	50 (1.96)	55 (2.16)	15 (0.59)	200 (7.87)	120 (4.72)	91 (3.58)	141 (5.55)	200 (7.87)	170 (6.69)	141 (5.55)	191 (7.52)	200 (7.87)	135 (5.31)	84 (3.30)	60 (2.36)	57 (2.24)	PS-1-1/2	70 (2.75)	PS-2	18kg/ 39 lb			
MS-4FC	MS-4FCH	MS-4FCHP	40L/min			380 (14.9)	378 (14.8)						271 (10.6)	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)	151 (5.94)	84 (3.30)
MS-6FC	MS-6FCH	MS-6FCHP	60L/min			40W	510 (20.0)	505 (19.8)	286 (11.2)	460 (18.1)	30 (1.18)	86 (3.38)	86 (3.38)	20 (0.78)	270 (10.6)	320 (12.6)	291 (11.4)	341 (13.4)	215 (8.46)	142 (5.59)	151 (5.94)	84 (3.30)	60 (2.36)	114 (4.48)	85 (3.34)	102 (4.01)	PS-2-1/2	85 (3.34)	102 (4.01)	PS-3	32kg/ 70 lb
MS-8FC	MS-8FCH	MS-8FCHP	80L/min				515 (20.2)	605 (23.8)	321 (12.6)	600 (23.6)	80 (3.14)	95 (3.74)	25 (0.98)	400 (15.7)	470 (18.5)	441 (17.3)	491 (19.3)	250 (9.84)	165 (6.49)	95 (3.74)	77 (3.03)	102 (4.01)	PS-3	—	PS-4	—	—	PS-4	38kg/ 83 lb		
MS-12FC	MS-12FCH	MS-12FCHP	120L/min				655 (25.7)	705 (27.7)	321 (12.6)	600 (23.6)	80 (3.14)	95 (3.74)	25 (0.98)	400 (15.7)	470 (18.5)	441 (17.3)	491 (19.3)	250 (9.84)	165 (6.49)	95 (3.74)	77 (3.03)	102 (4.01)	PS-3	—	PS-4	—	—	PS-4	45kg/ 99 lb		
MS-18FC	MS-18FCH	MS-18FCHP	180L/min				655 (25.7)	705 (27.7)	321 (12.6)	600 (23.6)	80 (3.14)	95 (3.74)	25 (0.98)	400 (15.7)	470 (18.5)	441 (17.3)	491 (19.3)	250 (9.84)	165 (6.49)	95 (3.74)	77 (3.03)	102 (4.01)	PS-3	—	PS-4	—	—	PS-4	50kg/ 110 lb		
MS-24FC	MS-24FCH	MS-24FCHP	240L/min		655 (25.7)		705 (27.7)	321 (12.6)	600 (23.6)	80 (3.14)	95 (3.74)	25 (0.98)	400 (15.7)	470 (18.5)	441 (17.3)	491 (19.3)	250 (9.84)	165 (6.49)	95 (3.74)	77 (3.03)	102 (4.01)	PS-3	—	PS-4	—	—	PS-4	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]

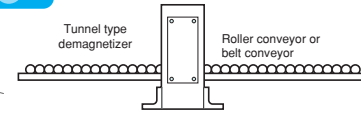
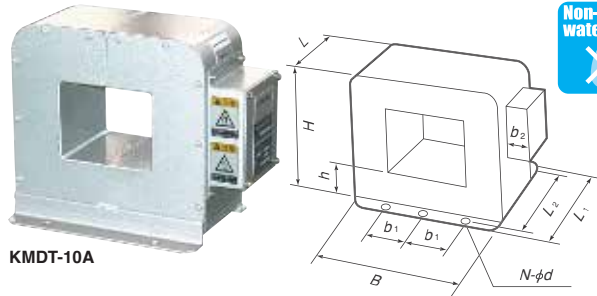
- Thick workpieces can be demagnetized effectively by moving both the face and the back over the demagnetizer.
- These demagnetizers have good heat radiation and can withstand continuous power-on condition.
- These demagnetizers are very powerful and can demagnetize steel materials that have properties 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 Single-phase 220 VAC, 60Hz	1.04kVA (5.2A)		280 (11.0)	400 (15.7)	200 (7.87)	120 (4.72)	29kg/63 lb
KMD-50C		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 KMD 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. [mm (in)]

Model	Power Source	Source Capacity (Current)	Working Rate	Gate		Dimensions										Mass	Applicable Cable 2-core (2PNC)
				Width	Height	B	L	H	b ₁	N	φ d	b ₂	L ₁	L ₂	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 ^φ
KMDT-16A		1.6kVA (8A)		160 (6.29)	125 (4.92)	280 (11.0)	144 (5.66)	245 (9.64)	80 (3.15)		12 (0.47)		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 ^φ
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 ^φ	

※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 [mm (in)]

Model	Dimensions						Demagnetizing Area	Withstand Load	Electrical Rating	Working Rate	Mass
	L ₁	L ₂	Le	B ₁	B ₂	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 [mm (in)]

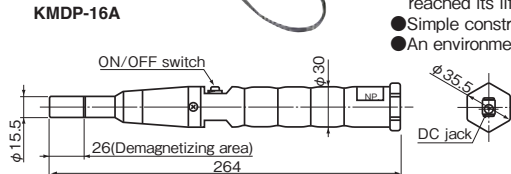
Model	Dimensions					Power	Output	Mass	Applicable Main Unit
	L ₁	L ₂	W	H	h				
EHD-W205B	110 (4.33)	140 (5.51)	175 (6.89)	260 (10.2)	230 (9.05)	Single-phase 200 VAC	180 VDC/5A	4.7kg/10 lb	KMDE-1212/2525
EHD-W210B	190 (7.48)	220 (8.66)	175 (6.89)	290 (11.4)	250 (9.84)	Single-phase 200 VAC	180 VDC/10A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

Model KMDP PEN TYPE DEMAGNETIZER

Non-watertight

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
KMDP-16A	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

Non-watertight

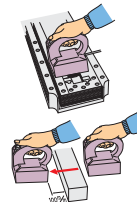
[Application]

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.

[mm (in.)]

Model	Power Source	Source Capacity	Effective Demag. Width	Dimensions			Mass
				Width	Length	Height	
KMDH-5A	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

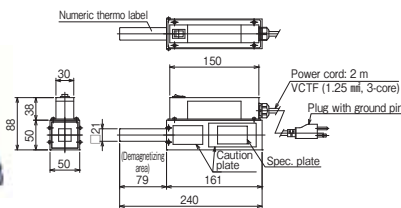
Non-watertight

[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.

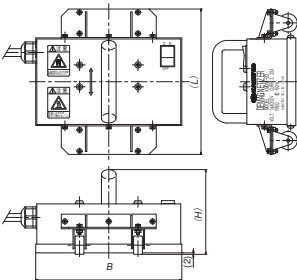


Model	Power Source	Source Capacity	Working Rate	Mass
KMDH-P21	Single-phase 100 VAC, 50/60 Hz	450VA	20% ED, 10 seconds max.	3kg/6 lb

※The power plug is of tracking resistance type.

Model KMDM WHEELED MOBILE DEMAGNETIZER

Mobile demagnetizer to easily demagnetize large steel plates!



Non-watertight



An example of usage on large steel plate

[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.

[mm (in.)]

Model	Power Source	Power Capacity	Working Rate	Effective Demag. Width	Dimensions	Mass
KMDM-20	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

Non-watertight

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

[Application]

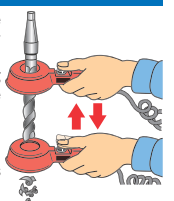
Easy demagnetization of a wide variety of magnetized objects including tools such as drills, milling cutters, reamers and cutters, round workpieces and measuring instruments such as slide calipers.

[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
KMDC-40	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

DISPLAY

• "REAL" and "PEAK HOLD" are displayed at the same time.
• A light can be tuned ON and OFF manually.



DETECT MODE

The magnetic flux density measurements range can be set by user and has a buzzing sound when in range.



TM-901EXP

3T (30 kg) supported

[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.



USB Type C



CE Marking

Features of TM-901EXP

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).
- 2-way power supply usable: battery, 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

					(1mT=10G)		
Model	TM-901EXP				Function	Zero reset Max. detect value hold	Polarity judgment Auto power off (Cancellable)
Object to detect	DC magnetic flux density Polarities (N, S)		AC magnetic flux density 40 - 500 Hz		Output	Digital output (USB) / Analog output	
Unit of measurement	mT/G selection				Indication	Detected value	Digital
Measurement range	0-3000.0mT				Operating temperature	0 - +40°C (104° F)	
Measurement mode	Measurement mode	Measuring range	Resolution	Indication accuracy*1	Power source	• Battery: Size AA (1.5 V) × 4 pieces • External power source 5 - 6 VDC (AC adapter/USB feed)	
	DC × 1*	0 - 200.0 mT	0.1 mT	± (5% of rdg. + 3digit)	Dimensions	143 (5.62) mm high × 64 (2.51) mm wide × 36 (1.41) mm thick	
Measuring range	DC × 10	0 - 300.00mT	0.01mT	± (5% of rdg. + 10digit)	Mass	Approx. 290 g/0.63 lb (batteries & probe included)	
	Resolution	0 - 150.00mT	0.01mT	± (3% of rdg. + 5digit)	Accessories	Probe (TM-901PRB), batteries, carrying case	
Indication accuracy	AC**	150.1 - 300.0 mT	0.1 mT	± (5% of rdg. + 20digit)	Optional	Axial probe (TM-901 AXL) Reference magnetic field (TM-SMF, TM-AMF)	
		301.0 - 1500.0mT	1 mT				

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

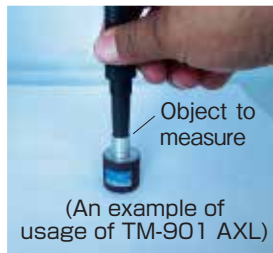
*1 The indication accuracy ±(5% of red. + 3 digits) is ±(5% of indicated value + 3 × resolution). "digit" = Resolution
Example: Measurement mode DC × 1, indicated value 123.5 mT (Measuring range 0 - 200 mT, resolution 0.1 mT)
±(123.5 × 0.05 + 3 × 0.1) = ±6.475 mT ≈ ±6.5 mT Accuracy range is 117.0 - 130.0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

Model TM PROBE FOR TESLA METER



TM-901PRB

TM-901AXL(Optional)



Object to measure

(An example of usage of TM-901 AXL)

- 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.

[mm (in)]

Model	Applicable Meter	Tip Dimensions	Cord Length	Mass
TM-901PRB	Only for TM-901EXP*	(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-901AXL		φ13(0.51) × 55(2.16)		

*This can be used with KANETEC conventional models TM-501, TM-601, TM-701 and TM801.

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

For calibration and daily check of Tesla Meter!

For standard probe

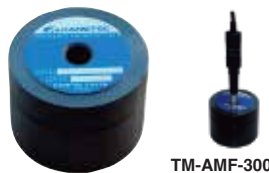
Applicable probe:KANETEC TM-201 and later models



TM-SMF-050

For axial type probe

Applicable probe:KANETEC TM-601 AXL, TM-701 AXL, TM-801 AXL, TM-901 AXL



TM-AMF-300

[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)	40 (1.57)	Approx. 0.5kg/1.10lb
TM-SMF-050	0.05 T (500G)	φ43 (1.69)	30 (1.18)	Approx. 0.4kg/0.88lb
TM-SMF-300	0.3 T (3000G)	φ73 (2.87)	74 (2.91)	Approx. 2.0kg/4.40lb
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.

[mm (in)]

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



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