

Model TM TESLA METER

Industry Standard for handheld devices

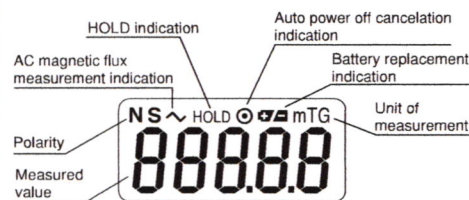
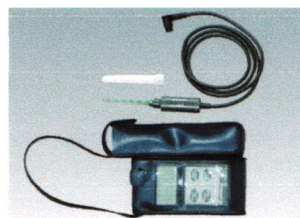
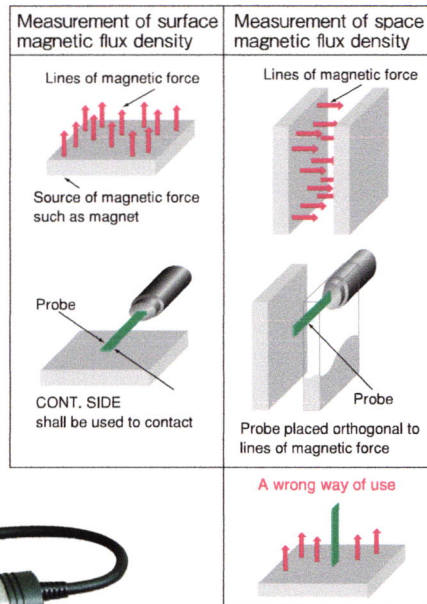
Meter in Compliance with New Measurement Law

Measuring data output function incorporated

3T(300G) corresponding for



TM-701



(1mT=10G)

Model	TM-701				Function	Zero reset	Polarity indication
Detecting Contents	DC magnetic flux density Polarities (N, S)		AC magnetic flux density (50/60Hz)		Max. detect value hold	Auto power off (can be canceled)	
Measuring	mT/G selection		IT=10000G		Display	LCD	
Indication Range	0—3000.00mT				Mode	Detection value	Numeric value (digital)
Measuring Mode	Measuring mode	Measuring range	Resolution	Indication accuracy	Polarity	Alphabets (N/S)	
Measuring Range	DC× 1*	0— 200.0 mT	0.1 mT	± (5% of rdg.+ 3digit)	Operating Temperature	0—+40℃ (104° F)	
		200.1—3000.0 mT	1 mT	± (5% of rdg.+ 10digit)	Power Source	Battery SUM-3(1.5 V) × 4 pieces	
Resolution	DC× 10	0— 300.00mT	0.01mT	± (5% of rdg.+ 5digit)	Dimensions	Height 140mm (5.51) ×width 64 (2.51) mm×thickness 30 (1.18) mm	
		200.1—1500.0 mT	1 mT	± (5% of rdg.+ 20digit)	Mass	Approx. 250 g/0.55 lb (including batteries and probe)	
Indication Accuracy	AC× 1*	0— 200.0 mT	0.1 mT	± (5% of rdg.+ 20digit)	Accessories	Probe, batteries and carrying case	
		200.1—1500.0 mT	0.01mT		Option	Digital output cable (TM-601DTC) Axial probe (TM-701AXL)	
	AC× 10	0— 150.00mT	0.01mT				

※ The measuring ranges are automatically selected.

Note: This product is not designed for measurement of electromagnetic waves.

Model TM DIGITAL SIGNAL OUTPUT CABLE FOR TESLA METER



To Tesla meter
(external output terminal)
TM-601DTC
(Optional)

To PC
(RS-232C)



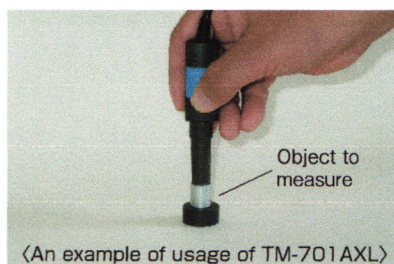
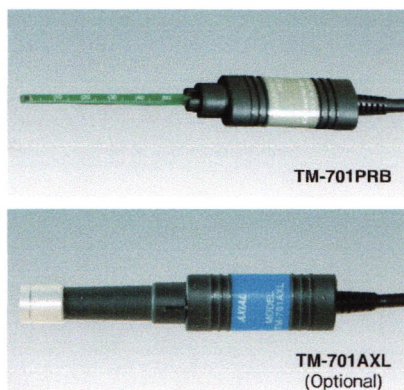
[Application]

Optional cable connects the TM-701 Tesla Meter to a PC for recording of data.

[Features]

- Monitor and record measured data to PC.
- Data can be shown in excel spreadsheet form
- Free Sample programs can be downloaded from our Kanetec home page

Model TM MEASUREMENT PROBE FOR TESLA METER



- A probe dedicated to TM-701. 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 measurement in the vertical direction and having higher durability is optionally available.

[mm (in)]				
Model	Applicable Model	Tip Dimensions		Mass
TM-701PRB	Only for TM-701 *	(T) 1.0(0.03) × (W) 3.5(0.13) × (L) 65(2.55)	1000(39.3)	50g/0.11 lb (Including probe cap)
TM-701AXL		φ13(0.51) × 55(2.16)		

※ Can be used with Kanetec's conventional TM-501 and TM-601.

Model TM REFERENCE MAGNETIC FIELD FOR TESLA METER

For calibration or dailycheck of the Tesla meter

[Application]

- Daily check of the Tesla meter.
- Calibration of the Tesla meter.

[Features]

- The closed circuit construction employing a permanent magnet that causes less magnetic force leak.
- Small and light weight.
- Usable with Kanetec TM-201 and above.



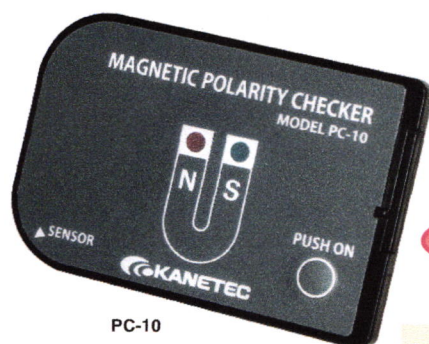
[mm (in)]				
Model	Magnetic Flux Density *	Dimensions		Mass
		Frame Dia	Height	
TM-SMF-003	0.003T (30G)	50(1.96)	40(1.57)	Approx. 0.2kg/0.44 lb
TM-SMF-050	0.05 T (500G)	φ43(1.69)	30(1.18)	
TM-SMF-300	0.3 T (3000G)	74(2.91)	40(1.57)	Approx. 0.1kg/0.22 lb
TM-SMF-1000	1 T (10000G)	φ73(2.87)	74(2.91)	Approx. 2.0kg/4.4 lb

※ Can be used with Kanetec's conventional TM-501 and TM-601.

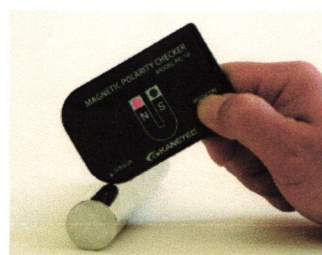
※ In case reference magnetic field corresponding to Axial type probe TM-701AXL is required, please consult with us.

Model PC MAGNETIC POLARITY CHECKER

Easy check of residual magnetic flux density, and N or S magnet polarity!



NEW



[Application]

In addition to selecting magnetic material, or to confirm the magnetic pole when magnet is installed, it can be used as an easy checker for residual magnetic flux density level on processed products.

[Features]

- Card size thickness, 6mm only. Convenient to have with you.
 - Audio tone and LED lights
 - N Pole (red LED) tone sounds in a short continuous note.
 - S Pole (blue LED) tone sounds in a longer continuous note
 - It detects magnetic flux density of more than 1mT (10G) so it can be used for simple confirmation of demagnetized results.
- ※ for precise measurement of magnetic flux density, please use TM-701 Tesla Meter



[mm (in)]						
Model	Dimensions	Distinction Accuracy	Indication Lamp	Battery	Mass	Accessories
PC-10	55(2.16) × 85(3.34) × 16(0.23)	N / S Approx. 1mT (10G) or more	N pole (Red LED) S pole (Blue LED)	CR2025 Button battery (included)	25g/0.055 lb	soft case

MEASURING TOOL HOLDERS

Model MB MAGNETIC BASE

ELECTROMAGNETIC CHUCKS
CHUCK CONTROLLERS
PERMANENT MAGNETIC CHUCKS
PERMANENT ELECTROMAGNETIC CHUCKS

BLOCKS FOR MC

VACUUM CHUCKS

PROMELTA SYSTEM

SINE BAR CHUCKS

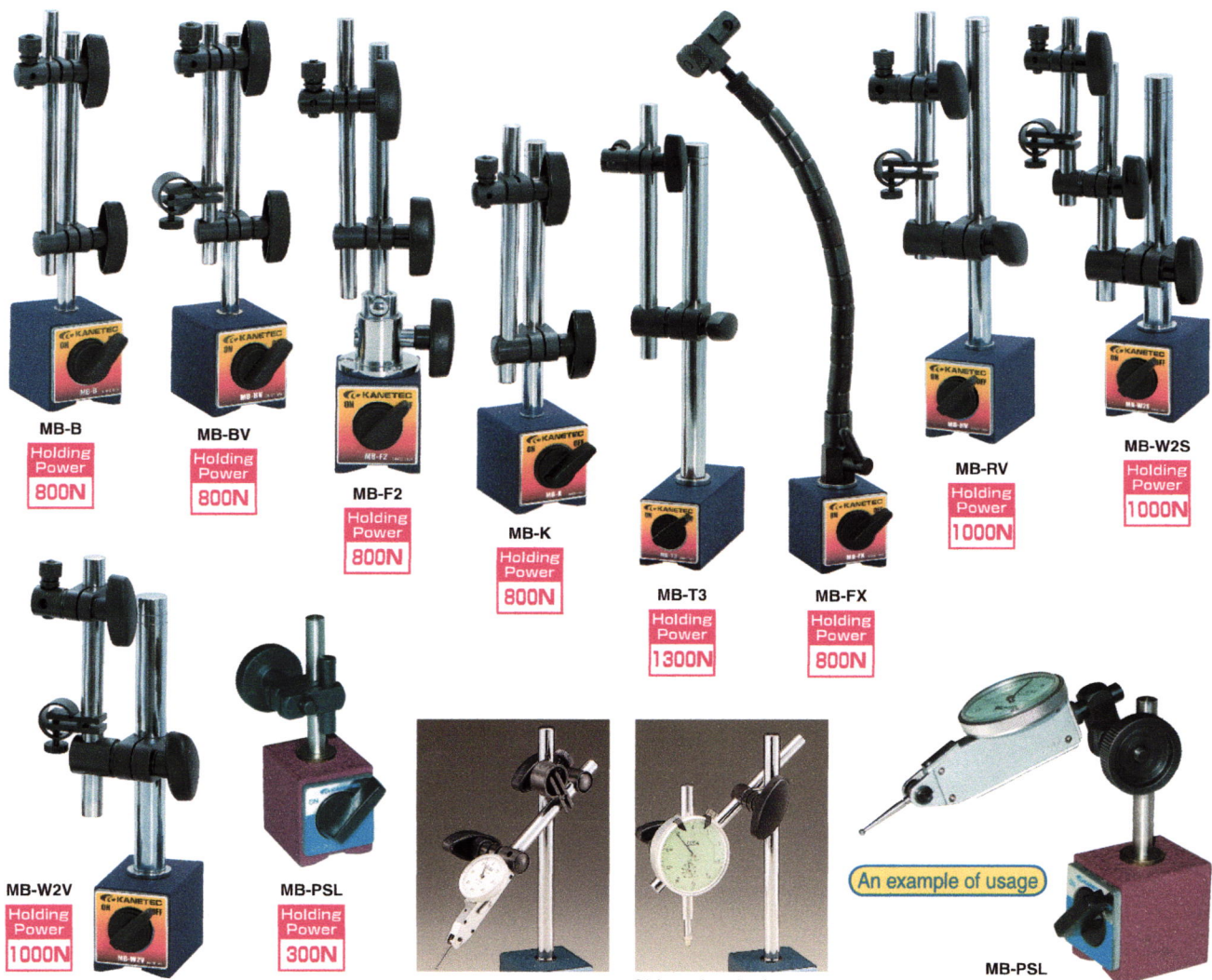
MAGNETIC BLOCKS

WORKING TOOLS

MEASURING TOOL HOLDERS

MAGNETIC HOLDERS

MAGNETIC TOOLS



An example of usage

Dial gage is optional

[Application]

These magnetic bases are widely used as 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]

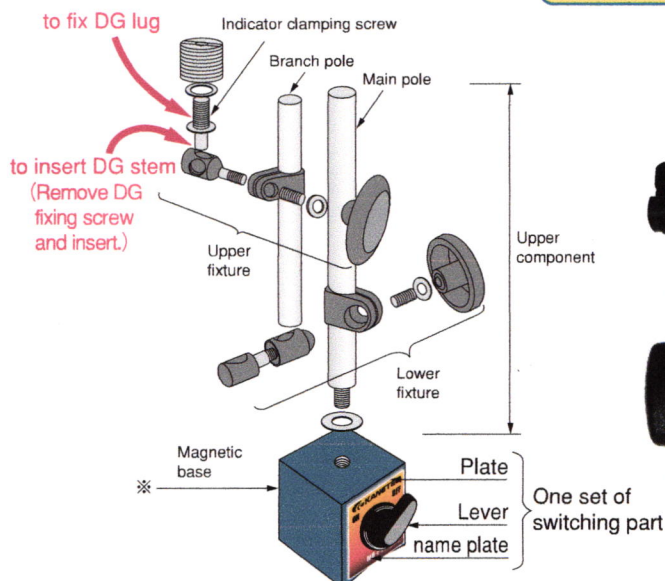
- A wide variety of models, small to large, and with diversified additional functions, are available to suit conditions of measuring places.
- A powerful magnet and strong clamping force ensure consistent, highly accurate measurement.

[mm (in.)]

Model	Holding Power	Magnetic Base			Main Pole		Sub Pole		Screw Threads			Clamp Hole Dia	Indicator Clamping Screw	Mass	Features
		Width	Length	Height	Dia ϕ	Length	Dia ϕ	Length	Mag. Base	Step	Main Pole				
MB-B	800N (80kgf)	58 (2.28)			12 (0.47)	176 (6.92)	10 (0.39)	165 (6.49)	M 8 (0.31) x 1.25 (0.04)	-	M8 (0.31) x 1.25 (0.04)	4.5 (0.17) / 6.5 (0.25)	M6	1.5kg/ 3.3 lb	General, standard type.
MB-BV						194 (7.63)		150 (5.90)						1.6kg/ 3.5 lb	General type with fine adjustment.
MB-F2						14 (0.55)	12 (0.47)	165 (6.49)			3-M4 (0.15)			1.7kg/ 3.7 lb	Main pole 360° turning, can be locked at 75° maximum.
MB-K	1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	16 (0.62)	225 (8.85)	14 (0.55)	165 (6.49)	M 8 (0.31) x 1.25 (0.04)	-	M8 (0.31) x 1.25 (0.04)	6.5 (0.25) / 8.1 (0.31)	M6	1.8kg/ 4.0 lb	Main pole large diameter, suitable for precision measurement.
MB-RV					20 (0.78)	355 (13.9)		200 (7.87)			M20 (0.78) x 1.5 (0.05)			2.0kg/ 4.4 lb	Larger size with fine movement adjustment.
MB-W2V					178 (7.00)	14 (0.55)					M10 (0.39) x 1.25 (0.04)			2.7kg/ 6.0 lb	High-precision type with fine adjustment.
MB-T3	1300N (130kgf)		117 (4.60)		16 (0.62)	315 (12.4)			M8 (0.31) x 1.25 (0.04)	-	M8 (0.31) x 1.25 (0.04)	6.0 (0.23) / 8.1 (0.31)	-	4.1kg/ 9.1 lb	Main pole longest, base largest and holding power greatest.
MB-FX	800N (80kgf)		58 (2.28)		20 (0.78)	178 (7.00)	14 (0.55)	165 (6.49)						1.5kg/ 3.3 lb	Flexible type settable bent freely.
MB-W2S	1000N (100kgf)		73 (2.87)		12 (0.47)	130 (5.11)								3.0kg/ 6.6 lb	Two-step pole with fine adjustment.
MB-PSL	300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	7 (0.27)	54 (2.12)			M5 (0.19) x 0.8 (0.03)		M5 (0.19) x 0.8 (0.03)	6.0 (0.23)		0.27kg/ 0.6 lb	Compact and simple, suitable for narrow space.

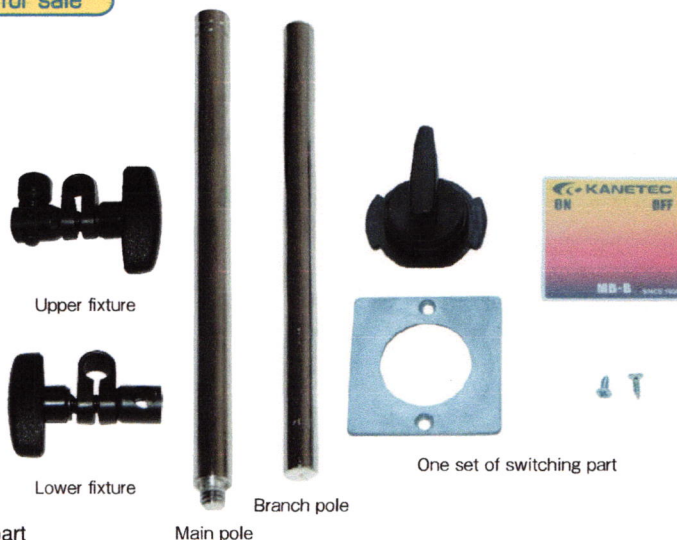
*Upper fixture, Model DC-8 (attaching hole of $\phi 6.5/8.1$), for attaching dial gauge is optionally supplied. *The holding power applies to SS400, thickness 10 mm and ground surface.

〈Names of major components of MB-B〉

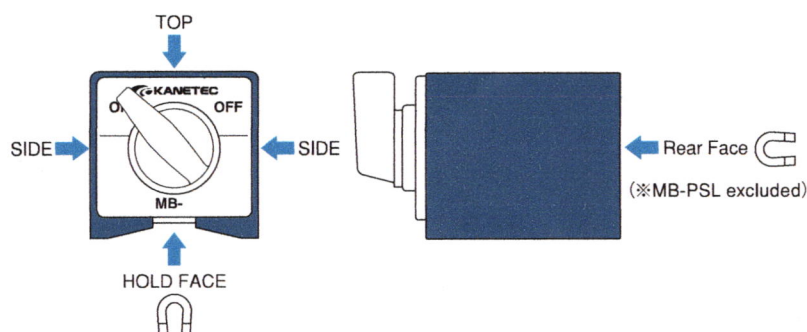


※ Please refer to P65, P67 for the common models.
However, please take note that there may be difference in screw hole for mounting main pole and so on.

Parts for sale



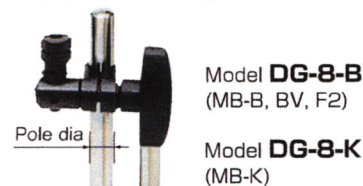
※ Upper and Lower clamping fixtures as well as switching part are to be sold in one lot.



Upper Fixture
Model DG-8

(Fixture for Mounting Dial Gauge)

- Upper fixture clamp with mounting hole size of $\phi 6.5/8.1\text{mm}$, supplied optionally for MB-B, BV, F2, K (if $\phi 8\text{mm}$ mounting hole is required).

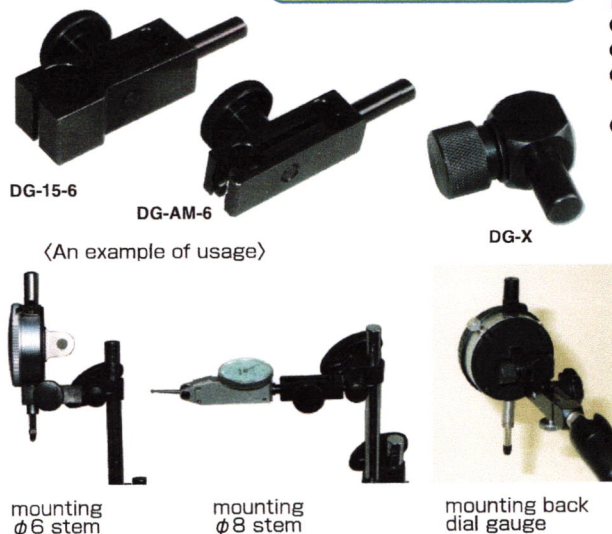


Model MB OPTIONAL UPPER CLAMP

A range of variation for measuring can be wider

NEW

Corresponding to the Magnet Base and High Lock Base



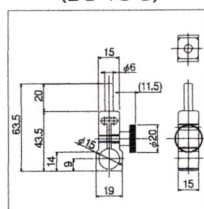
〔Application〕

For use with magnetic base, High Lock Base for mounting dial gauge, linear gauge.

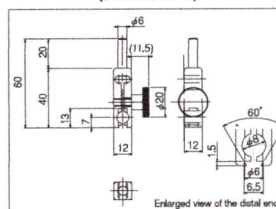
〔Features〕

- With $\phi 6\text{ mm}$ shaft corresponding to the bracket mounting holes on the MB series.
- It can mount larger size dial gauges such as liner gauge (dia. 15). (DG-15-6)
- It has $\phi 8\text{ mm}$ and $\phi 6\text{mm}$ holes and can mount dial gauges in the dovetail groove. (DG-AM-6).
- It has an $\phi 8\text{ mm}$ mounting stem, corresponding to the MB-MX and MB-OX, for lug back dial gauge mounting.

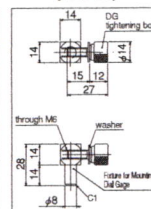
〈DG-15-6〉



〈DG-AM-6〉



〈DG-X〉



Model	Applicable models	specifications
DG-15-6	MB-series, MX, OX	for $\phi 15$ dial gauge (such as liner gauge)
DG-AM-6	MB-series	for dial gauge with dovetail
DG-X	MB-MX, OX	for dial gauge with lug

ELECTROMAGNETIC CHUCKS

CHUCK CONTROLLERS

PERMANENT MAGNETIC CHUCKS

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BLOCKS FOR MC

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WORKING TOOLS

MEASURING TOOL HOLDERS

MAGNETIC HOLDERS

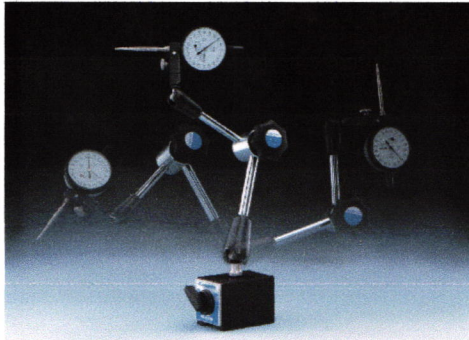
MAGNETIC TOOLS

MEASURING TOOL HOLDERS

Model MB-MX HIGH LOCK BASE

Mechanical lock & fine movement adjuster

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



Free style by dial adjustment



Consistent and highly accurate measurement

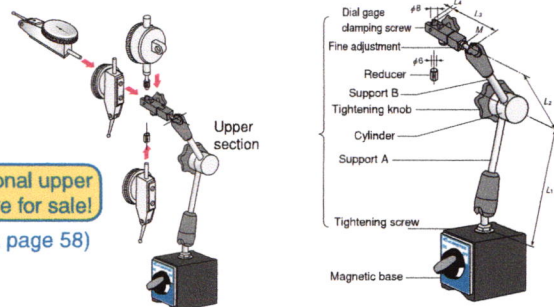
[Application]

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

[Features]

- Any position can be set by tightening a knob to lock every part.
- The clamp system is adjustable steplessly. Light turn 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.

Optional upper fixture for sale!
(See page 58)



⟨Dial gage mounting⟩ ⟨Component names/Dimensions⟩ [mm(in)]

Model	Lock Mechanism	Holding Power	Magnetic Base			Arm					Tapped Hole	Indicator Clamp		Mass	Features
			Width	Length	Height	L ₁	L ₂	L ₃	L ₄	M		Stem Hole	Dovetail		
MB-MX13F	Mechanical Type	600N (60kgf)	40 (1.57)	40 (1.57)	40 (1.57)	57 (2.24)	46.5 (1.83)	61.5 (2.42)		M6 (0.23) × 7 (0.28)	M6 (0.23) × 1 (0.03)	φ 8 (0.31)		0.8kg/1.7 lb	Smallest type
MB-MX20F		800N (80kgf)		58 (2.28)		95 (3.74)	71 (2.79)		6.5 (0.25)	M6 (0.23) × 10 (0.39)	M8 (0.31) × 1.25 (0.04)	φ 6 (0.23) (When reducer is used)	6.5 (0.25)	1.4kg/3.1 lb	Small type
MB-MX28F		1000N (100kgf)	50 (1.96)	73 (2.87)	55 (2.16)	137 (5.39)	109.5 (4.31)	63.5 (2.50)		M6 (0.23) × 12 (0.47)				2.1kg/4.6 lb	Standard type
MB-MX40F						197 (7.75)	170 (6.69)							2.2kg/4.8 lb	Long arm type

※ The holding power applies to SS400, thickness 10 mm and ground surface.

Model MB-X HIGH LOCK MINI BASE

Mechanical lock type

Dial gage is optional

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 operation.
- The arm can be adjusted freely, which facilitates locating the mounted measuring instrument.

[mm(in)]

Model	Lock Mechanism	Holding Power	Magnetic Base			Arm			Tapped Hole	Indicator Clamp		Mass	Features
			Width	Length	Height	L ₁	L ₂	L ₃		Stem Hole	Dovetail		
MB-CX	Mechanical Type	160N (16kgf)	28 (1.10)	28 (1.10)	29 (1.14)	46 (1.81)	46 (1.81)	39 (1.53)	M5 (0.19) × 0.8 (0.03)	φ 6 (0.23) × 2	6.5 (0.25)	0.38kg/ 0.8 lb	Small, V attractive face
MB-PSX		300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)								Small, magnet switchover

※ The holding power applies to SS400, thickness 10 mm and ground surface.

MEASURING TOOL HOLDERS

Model MB-P MAGNETIC HOLDER BASE



MB-PB
Holding Power
800N



MB-PR
Holding Power
1000N



MB-PRW
Holding Power
600N



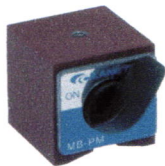
MB-PL
Holding Power
1300N



MB-PH
Holding Power
1250N



MB-PG
Holding Power
1500N

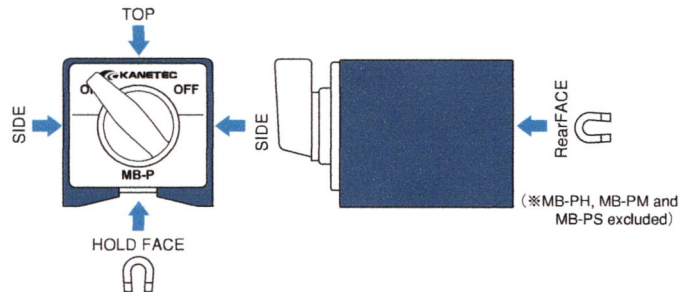


MB-PM
Holding Power
600N



MB-PS
Holding Power
300N

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

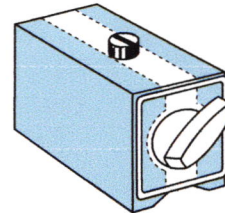


[Application]


Available in a wide range of sizes from minimum and medium to large. These on-off switchable magnetic holder bases meet various application. Usable as a tacking base for equipment, and/or a measuring base for laser use (by installing jigs in the screw holes or, if necessary, with slight additional machining).

[Features]

- Compact in size, yet it delivers a strong magnetic force.
- Either a V-slot and/or flat attractive face is provided. The face opposite to the change over switch face is also attractive. (MB-PH, MB-PM and MB-PS excluded)
- Although screw holes are provided, some working is possible as shown.





Workable area on magnetic holder base

Some working such as drilling is allowed in the  area

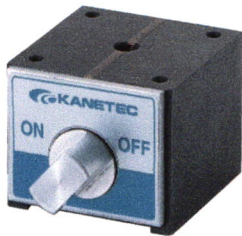
Detailed dimensions are found on page 67. 

[mm (in)]

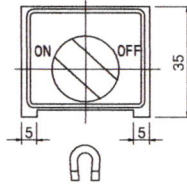
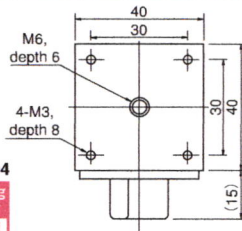
Model	Holding Power	Dimensions			Tapped Hole	Hold Face Form	Rear Face Attraction	Mass
		Width	Length	Height				
MB-PB	800N (80kgf)	50 (1.96)	58.5 (2.30)	55 (2.16)	M 8 (0.31) × 1.25 (0.04) Depth 7 (0.27)		○	1.0kg/2.2 lb
MB-PR	1000N (100kgf)		73 (2.87)		M10 (0.39) × 1.25 (0.04) Depth 7 (0.27)			1.3kg/2.8 lb
MB-PRW	600N (60kgf)		117 (4.60)		M6 (0.23) × Depth 6 (0.23)			1.2kg/2.6 lb
MB-PL	1300N (130kgf)	70 (2.75)	70 (2.75)	80 (3.15)	M12 (0.47) × 1.75 (0.06) Depth 11 (0.43)		×	2.0kg/4.4 lb
MB-PH	1250N (125kgf)	40 (1.57)	40 (1.57)	40 (1.57)	M5 (0.19) × Depth 4 (0.15)			2.5kg/5.5 lb
MB-PM	600N (60kgf)	30 (1.18)	34 (1.33)	35 (1.37)	M 8 (0.31) × 1.25 (0.04) Depth 7 (0.27)			0.5kg/1.1 lb
MB-PS	300N (30kgf)	50 (1.96)	120 (4.72)	52 (2.04)			○	0.2kg/0.4 lb
MB-PG	1500N (150kgf)							1.9kg/4.1 lb

※The holding power applies to SS400, thickness 10 mm and ground surface. ※MB-PRW is of waterproof construction.

Model MB MAGNETIC HOLDER BASE



MB-0404
Holding Power
200N
or over



[Application]

This base can be used widely as a magnetic force ON/OFF type magnetic base. It is designed small and is 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]

- The base can be mounted and demounted easily using the select lever.
- Compact but powerful magnetic force.
- Waterproof and oilproof construction.

[mm (in.)]

Model	Holding Power	Dimensions			Mounting Hole	Mass
		Width	Height	Length		
MB-0404	200N (20kgf) or over	40 (1.57)	35 (1.37)	40 (1.57)	4-M3 (0.11) Depth 6 (Span30 (1.18))	0.4kg/0.8 lb

※ The holding power applies to SS400, thickness 25 mm and ground surface.

Model MB-L MAGNETIC HOLDER

MB-L-125
Holding Power
800N



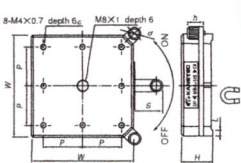
MB-L-65
Holding Power
200N



MB-L-90
Holding Power
250N



MB-L-45
Holding Power
65N



An example of usage

For mounting base of precision equipment



[Application]

Suitable as a base for laser and other optical measurement. Because the ON-OFF holding power is adjustable, these are recommended where fine adjustment and accuracy are required.

[Features]

- Easy ON-OFF operation using the lever.
- Thin and powerful magnetic force.
- Dry specification.

[mm (in.)]

Model	Holding Power	Dimensions			Center Tapped Hole	Peripheral tapped hole				Operating lever part			Mass
		W	H	L		P	A	b	c	S	d	h	
MB-L-45	65N (6.5kgf)	45		2.5						15			0.3kg/0.66 lb
	200N (20kgf)	65	20	4	M8 (0.31) × P1.25	25				19			0.6kg/1.32 lb
MB-L-65	250N (25kgf)	90			M8 (0.31) × P1.0	50				24	φ8 (0.31)	10	1.2kg/2.64 lb
MB-L-90	800N (80kgf)	125	30	6	M16 (0.23) × P1.0	50				36			3.3kg/7.27 lb

※ The holding power applies to SS400, thickness 25 mm and ground surface.

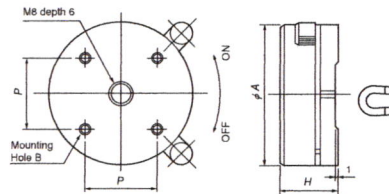
Model MB-L-C MAGNETIC HOLDER



MB-L-C50
Holding Power
59N



MB-L-C75
Holding Power
196N



[mm (in.)]

[Application]

Suitable as a base for laser and other optical measurement. Because the ON-OFF holding power is adjustable, these are recommended where fine adjustment and accuracy are required.

[Features]

- Easy ON-OFF operation using the lever.
- Thin and powerful magnetic force.
- Dry specification.

Model	Holding Power	Dimensions		Mounting Hole		Mass
		A	H	P	B	
MB-L-C50	59N (6kgf)	50 (1.96)	20 (0.78)	25 (0.98)	M4 (0.15) Depth 6 (0.23)	0.30kg/0.6 lb
MB-L-C75	196N (20kgf)	75 (2.95)	20 (0.78)	35 (1.37)	M4 (0.15) Depth 6 (0.23)	0.68kg/1.5 lb

※ The holding power applies to SS400, thickness 25 mm and ground surface.

Model KM-B RULER HOLDER

KM-B2
Holding Power
1500N

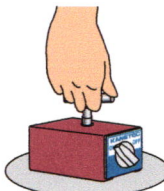


KM-B1



Parts for sale !

800N



[Application]

Useful for a wide variety of operations; holding down a large ruler on a floor or wall during machining of iron plates, etc. and moving workpieces after cutting or holding and removing chips.
※ If used at high temperature, the holding power may drop.
※ For transporting heavy workpieces, Model HL-15 (P91) having a reinforced grip to withstand the weight is available.

[Features]

- Attachable and detachable easily by changeover lever.
- Attractive face is made in V-slot for KM-B1 and in inverted concave for KM-B2.

[mm (in.)]

Model	Holding Power	Mounting Hole			Tapped Hole	Mass
		Width	Length	Height		
KM-B1	800N (80kgf)	50 (1.96)	58.5 (2.30)	55 (2.16)	M 8 (0.31) × 1.25 (0.04) Depth 7 (0.27)	1.1kg/2.4 lb
KM-B2	1500N (150kgf)		120 (4.72)	52 (2.04)		2.5kg/5.5 lb

※ The holding power applies to SS400, thickness 10 mm and ground surface.

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