Model MB MAGNETIC BASE 800N 800N 800N 800N мв-в мв-к MB-BV MB-F2 1300N MB-T3 MB-PSL Holding 1000N 800N 1000N MB-W2V MB-FX MB-W2S MB-RV (An example of usage MB-Z15 MB-PSL

[Application]

MB-Z20

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 μm or less (1/8 or less of conventional base) MB-Z20: 8 µm or less (1/3 or less of conventional base)

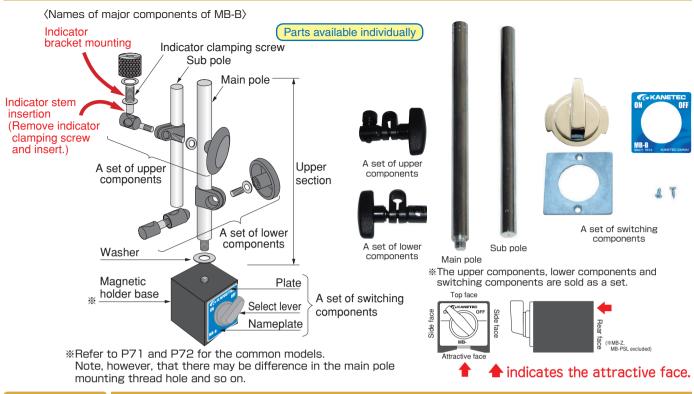
MB-PSL allows the mounting of the test

indicator ϕ 6 mm stem only.

The dial gage is not included.

						1010 2	20. Ο μι	11 01 1000	(1/3 0) less	or conven	tional base)					[mm (in)]
Model	Holding	Magnetic Holder Base			Main Pole		Sub Pole		Main Pole Mounting Thread		Clamp	Iviountable	Indicator Clamp	Mana	Foot was	
iviodei	Power	Width	Length	Height	Dia φ	Length	Dia φ	Length	Mag. Base	Step	Main Pole	Hole Dia.	Stem Dia.	Screw	Mass	Features
МВ-В			58.5		12 (0.47)	176	10 (0.39)	165 (6.49)	M 8(0.31) × 1.25(0.04)		M8(0.31) ×	25 (0.04) - 6.6 (0.26) / 8.1 (0.31)	φ6 (0.23) φ8 (031)	M6 (0.23)		General, standard type.
MB-BV	800N					(6.92)		150 (5.90)			1.25 (0.04)					General type with fine move adjustment.
MB-F2	(80kgf)		(2.30)			194 (7.63)		165 (6.49)	3-M4 (0.15)		_				1.8kg/ 3.9 lb	Main pole 360° turning, can be locked at 75° max.
мв-к				55 (2.16)	14 (0.55)	178 (7.00)	12 (0.47)		M 8(0.31) × 1.25(0.04)		M8(0.31) × 1.25(0.04)				1.5kg/ 3.3 lb	Main pole large diameter, suitable for precision measurement.
MB-RV	1000N		73		16 (0.62)	225 (8.85)									2.4kg/ 5.2 lb	Larger size with fine move adjustment.
MB-W2V	(100kgf)		(2.87)		20	178 (7.00)	14 (0.55)								2.5kg/ 5.5 lb	High precision type with fine move adjustment.
МВ-Т3	1300N (130kgf)		117 (4.60)		(0.78)	355 (13.9)		200 (7.87)	M20 (0.78) × 1.5 (0.05)	M20 (0.78) / M10 (0.39)	M10 (0.39) × 1.25 (0.04)		(MB-PSL:		3.6kg/ 7.9 lb	Main pole longest, base largest and holding power greatest.
MB-FX	800N (80kgf)		58.5 (2.30)		16 (0.62)	315 (12.4)	-	-	M8(0.31) ×		M8(0.31) ×	6.0(0.23)/ 8.1(0.31)	φ6 only)	_	1.8kg/ 3.9 lb	Flexible type, settable freely.
MB-W2S	1000N (100kgf)		73 (2.87)		20 (0.78)	178 (7.00)	14 (0.55) 12 (0.47)	165 (6.49) 130 (5.11)	1.25(0.04)	_	1.25(0.04)	6.6(0.26)/ 8.1(0.31)		M6 (0.23)	2.7kg/ 5.9 lb	Two-step sub pole with fine move adjustment.
MB-PSL	300N (30kgf)	30 (1.18)	34 (1.33)	35 (1.37)	7 (0.27)	54 (2.12)			M5(0.19) × 0.8(0.03)		M5 (0.19) × 0.8 (0.03)	6.0 (0.23)		_	0.25kg/ 0.5 lb	Compact and simple, suitable for limited space.
MB-Z15	1230N 70 (125kgf) (2.76)	70 (2.76)	76 (2.99)	30 (1.18)	250 (9.84)	_	-	X M12(0.47)	M20 (0.78) / M12 (0.47)	M12(0.47) × 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. Suitable for repeated measurement	
MB-Z20						, , ,			1.5 (0.05)	,					5.5kg/ 12.12 lb	and precision measurement.

MAGNETIC TOOLS



Model DG OPTIONAL CLAMP FOR MAGNETIC BASE/HIGH LOCK BASE

Measurement variation expanded.

Upper components Model DG-6 (Components for mounting dial gage)



[Application]

Optionally sold when $\phi 4.5$ mm mounting hole is required on MB-B, BV, F2 and K.

■Upper components with \$\phi4.5/6.6 mm mounting hole.

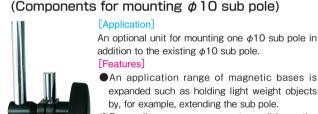
MB-B (Common with BV/F2)

Model **DG-6-B** (Mounting diameter φ 10)

MB-K (Common with W2S)

Model **DG-6-K** (Mounting diameter ϕ 12)

Lower components Model MB-CMF (Components for mounting ϕ 10 sub pole)



• An application range of magnetic bases is expanded such as holding light weight objects by, for example, extending the sub pole.

*Depending on measurement conditions, the rigidity may drop. Pay attention to a drop in measurement accuracy.

Applicable models: MB-B, BV, F2 (Sub pole diameter 10 mm) Model MB-CMF1010

Designed for Magnetic Base



<An example of usage>



clamping (DG-AM-6)



Dovetail groove clamping (DG-AM-6)

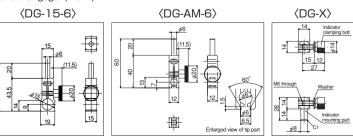


Indicator clamping (DG-X)

[Application]

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

- ø6 shaft to suit the mounting hole of MB Series upper components. (DG-15-6, DG-
- A larger diameter dial gage such as a liner gage (φ 15) can be clamped. (DG-15-6)
- $\bullet \phi 8$ and $\phi 6$ holes are provided for securing a dial gage in the dovetail groove. (DG-AM-6)
- $\bullet \phi 8$ shaft to suit the tip mounting pat of MB-MX and MB-OX to secure the bracket of a dial gage. (DG-X)



	Model	Applicable Base	Specification	Mass		
	DG-15-6	MB-series,MX,OX	ϕ 15 dial gage (linear gage, etc.)	68g / 0.15 lb		
g -	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		