Dial Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

SERIES 2 — Long Stroke Type

- Long stroke dial indicators with a ø57 mm outer frame. All the models are equipped with limit markers and a bezel clamp as standard. (inch models are exception)
- An O-ring is employed to ensure air-tightness between the outer frame and the crystal case to prevent water or oil penetration.
- The stem and the spindle are made of highstrength quench-hardened stainless steel suitable for heavy-duty use.

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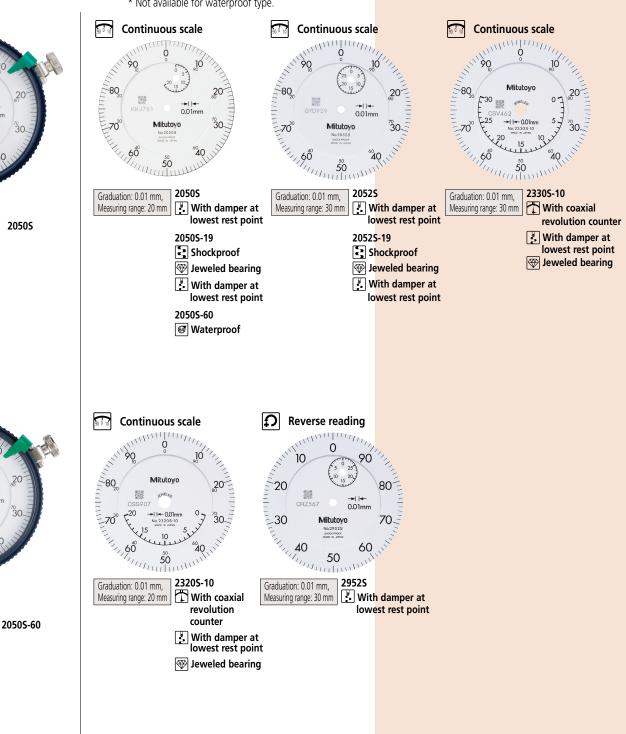
Mitutoyo

- A carbide contact point is employed.
- The grand gear is made of stainless steel with high resistance to wear and deformation.

An inspection certificate is supplied as standard.

Refer to page X for details.

- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.
- The bezel clamp and lifting lever* (optional) can be attached to either the right or left side. These parts can be easily installed and removed without any tools.
- * Not available for waterproof type.



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FEATURES

Metric									
Order No.			Ē	5	5	a	LA.	\bigotimes	B
w/ lug	Flat-back	90 0 10	10 ⁰ 10	÷1	5	64	\$	V	L
2050S	2050SB	~	—	—	—	—	~	—	—
2050S-60	2050SB-60	~	—	—	—	V	—	—	—
2050S-19	2050SB-19	~	—	—	~	—	~	~	—
2320S-10	2320SB-10	~	—	—	—	—	~	~	~
2052S	2052SB	~	—	—	—	—	~	—	—
2052S-19	2052SB-19	~	—	—	~	—	~	~	—
2330S-10	2330SB-10	~	—	—	—	—	V	~	~
2952S	2952SB	—	—	~	—	—	~	—	—

SPECIFICATIONS

Metric ISO/IIS type										
Order No. w/lug Flat-back		Graduation	duation Range (range/rev)		Accu Retrace	racy* 1/10 Rev	Repeat- ability	Dial reading	Measuring force	
20505	2050SB	0.01 mm	20 mm (1 mm)	Overall 20 µm	5 µm	8 µm	1 Rev 15 µm	4 µm		2.0 N or less
2050S-60	2050SB-60	0.01 mm	20 mm (1 mm)	20 µm	5 µm	8 µm	15 µm	4 µm	±0-100	2.5 N or less
2050S-19	2050SB-19	0.01 mm	20 mm (1 mm)	20 µm	5 µm	8 µm	15 µm	4 µm	±0-100	2.0 N or less
2320S-10	2320SB-10	0.01 mm	20 mm (1 mm)	20 µm	5 µm	8 µm	15 µm	4 µm	±0-100	2.0 N or less
20525	2052SB	0.01 mm	30 mm (1 mm)	25 µm	7 µm	10 µm	15 µm	5 µm	±0-100	2.5 N or less
20525-19	2052SB-19	0.01 mm	30 mm (1 mm)	25 µm	7 µm	10 µm	15 µm	5 µm	±0-100	2.5 N or less
2330S-10	2330SB-10	0.01 mm	30 mm (1 mm)	25 µm	7 µm	10 µm	15 µm	5 µm	±0-100	2.5 N or less
2952S	2952SB	0.01 mm	30 mm (1 mm)	25 µm	7 µm	10 µm	15 µm	5µm	100-0	2.5 N or less

*1 2050S-60 and 2050SB-60 are waterproof types that use a rubber bellows to cover the spindle. Note that the outer diameter of the bellows (ø9.5) is larger than that of the stem (ø8).

*2 Completed products inspection is performed in the vertical position (contact point downward) and the stated accuracy is guaranteed.

Inch										
Order No.				5	64	ก		E		
w/ lug	Flat-back	90 0 10	10 0 10	L	S	+/	Ľ	2	•	
24165	2416SB	~	—	—	_	—	—	—	—	
2416S-06	2416SB-06	~	—	—	—	—	—	—	—	
2416S-10	2416SB-10	~	—	—	—	—	V	—	—	
2417S	2417SB	—	~	—	—	—	—	—	—	
2424S-19	2424SB-19	~	—	~	_	_	~	—	~	
2776S	2776SB	~	_	_	_	_	_	_	_	
2904S	2904SB	—	—	—	—	V	—	—	—	

Inch ANSI/AGD type									
Order No. w/ lug Flat-back		Graduation	Range Accuracy* (range/rev) First 1 Rev / 2.5 Rev / 10 Rev Retrace		Repeat- ability	Dial reading	Measuring force		
24165	2416SB	0.001 in	1 in (0.1 in)	±0.001 in / ±0.001 in / ±0.002 in	0.0002 in	±0.0002 in	±0-100	1.8 N or less	
2416S-06	2416SB-06	0.001 in	1 in (0.1 in)	±0.001 in / ±0.001 in / ±0.002 in	0.0002 in	±0.0002 in	±0-100	1.8 N or less	
2416S-10	2416SB-10	0.001 in	1 in (0.1 in)	±0.001 in / ±0.001 in / ±0.002 in	0.0002 in	±0.0002 in	±0-100	1.8 N or less	
2417S	2417SB	0.001 in	1 in (0.1 in)	±0.001 in / ±0.001 in / ±0.002 in	0.0002 in	±0.0002 in		1.8 N or less	
24245-19	2424SB-19	0.001 in	2 in (0.1 in)	±0.001 in / ±0.001 in / ±0.002 in / ±0.003 in (First 20Rev)	0.00033 in	±0.0002 in	±0-100	2.5 N or less	
27765	2776SB	0.0005 in	1 in (0.05 in)	±0.0005 in / ±0.0005 in / ±0.0015 in / ±0.002 in (First 20Rev)	0.0002 in	±0.0001 in	±0-50	2.5 N or less	
2904S	2904SB	0.001 in	1 in (0.1 in)	±0.001 in / ±0.001 in / ±0.002 in	0.0002 in	±0.0002 in	100-0	1.8 N or less	

* Completed products inspection is performed in the vertical position (contact point downward) and the stated accuracy is guaranteed.

Unit: mm ISO/JIS ANSI/AGD Туре Type D Ε D 20505-60 D F ø6.5 ⊲ 6.35 ø6.5 \triangleleft ø6.5 10 - g 9 Ч Š ٣ 9 F Ø9.52-8.03 ш Ø8-0.009 œ ш Ø8-0.009 ш ø9.5 В ø4.8 U U 官 4-48UNF M2.5×0.45 U M2.5×0.45 Order No. D Order No. A B Α В С Ε G Н D EFG Н F 1 С **2050S** 38.8 75.2 57 17.7 20 16.9 29.8 52 7.6 2416S 38.9 76.8 57 17.7 19 13.6 34.7 52 7.6 57 2416S-06 38.9 76.8 57 52 **2050S-60** 59.8 87.2 17.7 20 12.3 46.4 52 7.6 177 19 13.6 34.7 7.6 2050S-19 38.8 75.2 57 17.7 20 16.9 29.8 52 7.6 2416S-10 38.9 76.8 57 17.7 19 13.6 34.7 52 7.6 57 52 7.6 57 19 13.6 34.7 52 **23205-10** 38.8 75.2 17.7 20 16.9 29.8 2417S 38.9 76.8 17.7 7.6

DIMENSIONS

F

17.7 20.9 54.3 59.7 52 9.5

17.7 19 13.6 34.7 52 7.6

38.9 76.8 57 17.7 19 13.6 34.7 52 7.6

17.7

17.7 20 16.9 43.3 52

17.7 20 16.9 43.3

20 16.9

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16.9 43.3

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20525

2952S

2052S-19 38.8

2330S-10 38.8

2776S

2904S

24245-19 118 142.5 57

38.9 76.8 57