



An inspection certificate is supplied as standard.
Refer to page U-11 for details.

Dial Indicators

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

SERIES 3, 4 — Long StrokeType, Large Diameter



Continuous scale



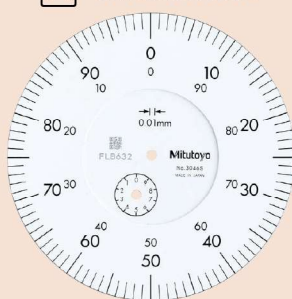
Balanced scale

- Dial indicators with a large-diameter dial face for easy reading.
- Models with longer measuring ranges are also available.
- All types are supplied with limit markers and a bezel clamp as standard.
- The stem and spindle are made of high-strength quench-hardened stainless steel suitable for heavy-duty use.
- A carbide contact point is used.
- 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 tools.

* Can be attached only to
**3046S, 3047S, 3050S,
3109S-10 and 4046S.**



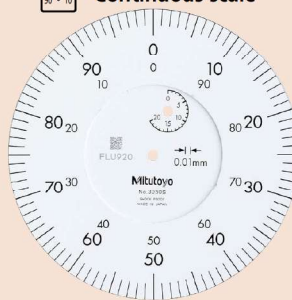
Continuous scale



Graduation: 0.01 mm, Measuring range: 10 mm **3046S**



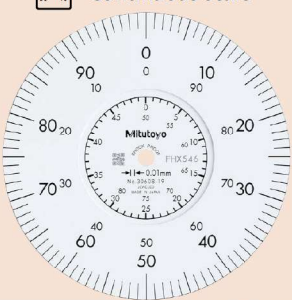
Continuous scale



Graduation: 0.01 mm, Measuring range: 20 mm **3050S**



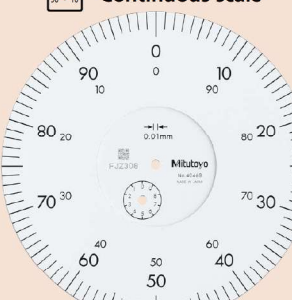
Continuous scale



Graduation: 0.01 mm, Measuring range: 80 mm **3060S-19**



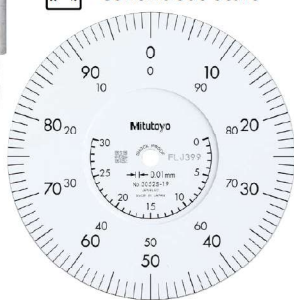
Continuous scale



Graduation: 0.01 mm, Measuring range: 10 mm **4046S**



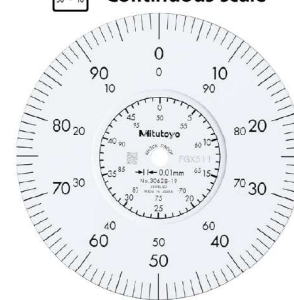
Continuous scale



Graduation: 0.01 mm, Measuring range: 30 mm **3052S-19**



Continuous scale



Graduation: 0.01 mm, Measuring range: 100 mm **3062S-19**



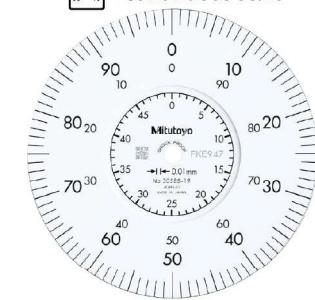
Balanced scale



Graduation: 0.01 mm, Measuring range: 10 mm **3047S**



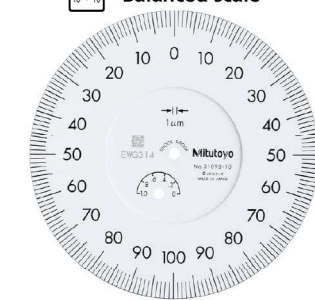
Continuous scale



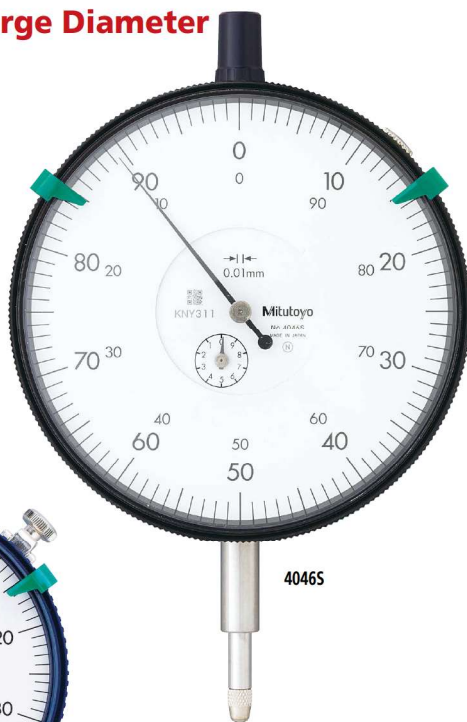
Graduation: 0.01 mm, Measuring range: 50 mm **3058S-19**



Balanced scale



Graduation: 0.001 mm, Measuring range: 1 mm **3109S-10**



4046S

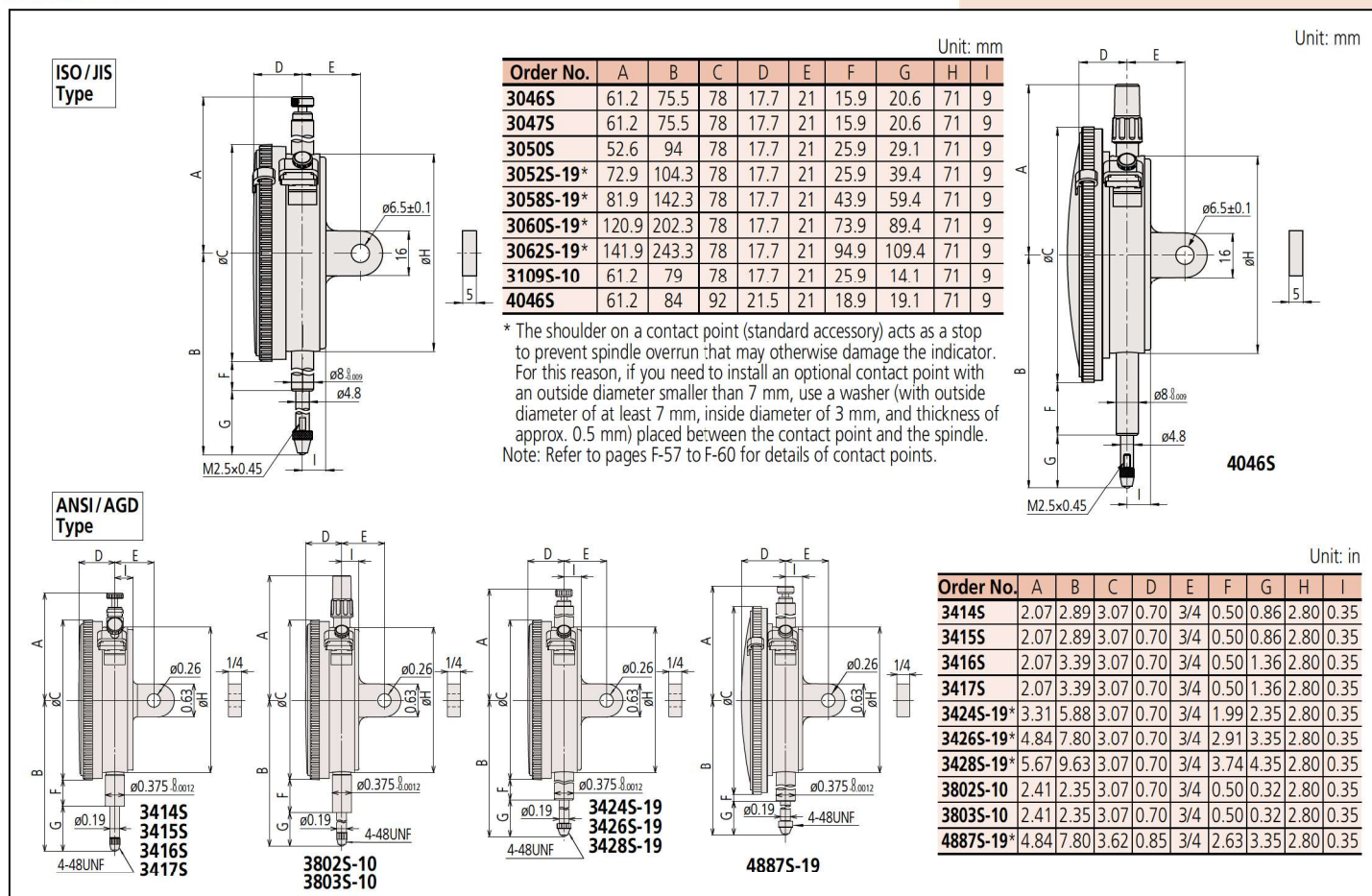
3058S-19

3109S-10

Dial Indicators

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

DIMENSIONS



FEATURES

Metric								
Order No.	Flat-back	ISO/JIS	ANSI/AGD	Flat-back	ISO/JIS	ANSI/AGD	Flat-back	ISO/JIS
3046S	3046SB	✓						
3047S	3047SB		✓					
3050S	3050SB	✓		✓				
3052S-19	3052SB-19	✓		✓	✓	✓	✓	✓
3058S-19	3058SB-19	✓		✓	✓	✓	✓	✓
3060S-19	3060SB-19	✓		✓	✓	✓	✓	✓
3062S-19	3062SB-19	✓		✓	✓	✓	✓	✓
3109S-10	3109SB-10	✓	✓	✓	✓	✓	✓	✓
4046S	4046SB	✓						

Inch								
Order No.	Flat-back	ISO/JIS	ANSI/AGD	Flat-back	ISO/JIS	ANSI/AGD	Flat-back	ISO/JIS
3414S	3414SB	✓						
3415S	3415SB		✓					
3416S	3416SB	✓						
3417S	3417SB		✓					
3424S-19	3424SB-19	✓		✓	✓	✓	✓	✓
3426S-19	3426SB-19	✓		✓	✓	✓	✓	✓
3428S-19	3428SB-19	✓		✓	✓	✓	✓	✓
3802S-10	3802SB-10	✓		✓	✓	✓	✓	✓
3803S-10	3803SB-10	✓	✓	✓	✓	✓	✓	✓
4887S-19	4887SB-19	✓		✓	✓	✓	✓	✓

SPECIFICATIONS

Metric												ISO/JIS type	
Order No.		Graduation (mm)	Range (range/rev) (mm)	Maximum permissible error (MPE) (μm)						Dial reading	Measuring force (N)		
w/lug	Flat-back			Indication error				Hysteresis	Repeat- ability				
				1/10 Rev	1/2 Rev	1 Rev	Measuring range						
3046S	3046SB	0.01	10 (1)	5	9	10	15	3	3	±0-100	1.4 or less		
3047S	3047SB	0.01	10 (1)	5	9	10	15	3	3	0-50-0	1.4 or less		
3050S	3050SB	0.01	20 (1)	8	10	15	20	5	4	±0-100	2.0 or less		
3052S-19	3052SB-19	0.01	30 (1)	10	12	15	25	7	5	±0-100	2.5 or less		
3058S-19	3058SB-19	0.01	50 (1)	10	12	15	30	8	5	±0-100	3.0 or less		
3060S-19*1	3060SB-19*1	0.01	80 (1)	12	17	20	45	9	5	±0-100	3.0 or less		
3062S-19*1	3062SB-19*1	0.01	100 (1)	12	17	20	50	9	5	±0-100	3.2 or less		
3109S-10	3109SB-10	0.001	1 (0.2)	2	3.5	4	5	2	0.5	0-100-0	1.5 or less		
4046S	4046SB	0.01	10 (1)	5	9	10	15	3	3	±0-100	1.4 or less		

*1 Use in a vertical orientation (contact point downward) for the long stroke model.

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

Inch				ANSI/AGD type					
Order No.		Graduation (in)	Range (range/rev) (in)	Accuracy*2 (in)		Repeat- ability (in)	Dial reading	Measuring force (N)	
w/lug	Flat-back			First 1 Rev/2.5 Rev/10 Rev					Retrace
3414S	3414SB	0.001	0.5 (0.1)	±0.001/±0.001/±0.001		0.0002	±0-0002	±0-100	1.8 or less
3415S	3415SB	0.001	0.5 (0.1)	±0.001/±0.001/±0.001		0.0002	±0.0002	0-50-0	1.8 or less
3416S	3416SB	0.001	1 (0.1)	±0.001/±0.001/±0.002		0.0002	±0.0002	±0-100	1.8 or less
3417S	3417SB	0.001	1 (0.1)	±0.001/±0.001/±0.002		0.0002	±0.0002	0-50-0	1.8 or less
3424S-19	3424SB-19	0.001	2 (0.1)	±0.001/±0.001/±0.002 /±0.003 (20 Rev)		0.00033	±0.0002	±0-100	3.0 or less
3426S-19* ¹	3426SB-19* ¹	0.001	3 (0.1)	±0.001/±0.001/±0.002/±0.003 (20 Rev)/±0.005 (Over 20 Rev)		0.00033	±0.0002	±0-100	3.0 or less
3428S-19* ¹	3428SB-19* ¹	0.001	4 (0.1)	±0.001/±0.001/±0.002/±0.003 (20 Rev)/±0.005 (Over 20 Rev)		0.00033	±0.0002	±0-100	3.2 or less
3802S-10	3802SB-10	0.0001	0.025 (0.01)	±0.0001/±0.0001/—		0.0001	±0.00003	0-10	2.0 or less
3803S-10	3803SB-10	0.0001	0.025 (0.01)	±0.0001/±0.0001/—		0.0001	±0.00003	0-5-0	2.0 or less
4887S-19* ¹	4887SB-19* ¹	0.001	3 (0.1)	±0.001/±0.001/±0.002/±0.003 (20 Rev)/±0.005 (Over 20 Rev)		0.00033	±0.0002	±0-100	3.0 or less

*1 Use in a vertical orientation (contact point downward) for the long stroke model.

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