

# Dial Indicators

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

## SERIES 1 — Compact Type, Small Diameter

- Compact dial indicators with bezel diameters of 40 mm for restricted-space applications in gaging jigs.
- All models come with limit markers and a bezel clamp.
- Secure adhesion between the bezel and crystal as well as the use of an O-ring prevents water or oil penetration.
- The stem and spindle are made of high-strength quench-hardened stainless steel which resists arduous use.
- A carbide contact point is used.
- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.



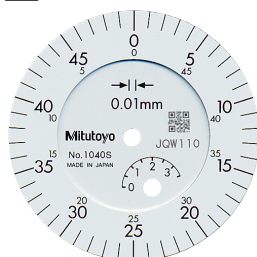
An inspection certificate is supplied as standard. Refer to page X for details.



1044S



Continuous scale



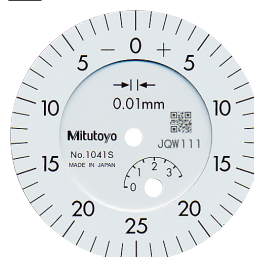
Graduation: 0.01 mm,  
Measuring range: 3.5 mm

1040S

Double scale  
spacing



Balanced scale



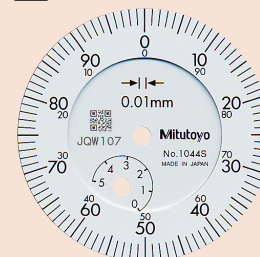
Graduation: 0.01 mm,  
Measuring range: 3.5 mm

1041S

Double scale  
spacing



Continuous scale



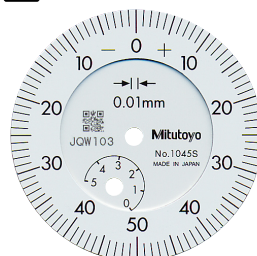
Graduation: 0.01 mm,  
Measuring range: 5 mm

1044S

1044S-15  
 Jeweled bearing



Balanced scale

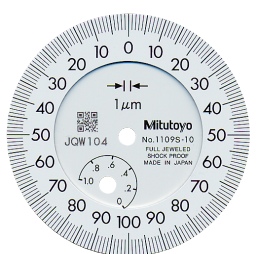


Graduation: 0.01 mm,  
Measuring range: 5 mm

1045S



Balanced scale



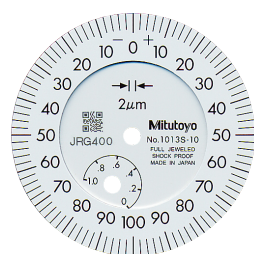
Graduation: 0.001 mm,  
Measuring range: 1 mm

1109S-10

Shockproof  
 Jeweled  
bearing



Balanced scale



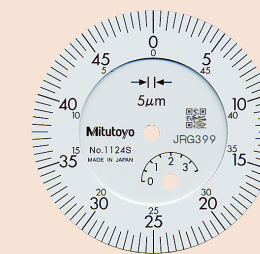
Graduation: 0.002 mm,  
Measuring range: 1 mm

1013S-10

Shockproof  
 Jeweled  
bearing

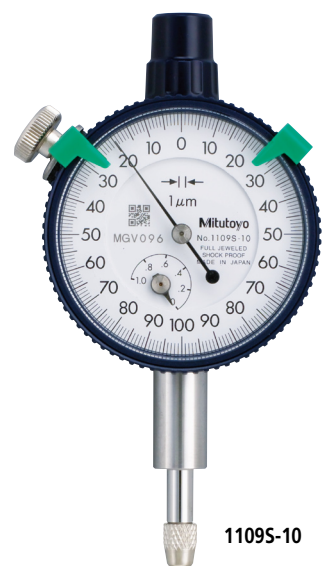


Continuous scale



Graduation: 0.005 mm,  
Measuring range: 3.5 mm

1124S

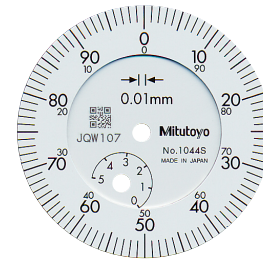


1109S-10



1044S-60

## Continuous scale



Graduation: 0.01 mm,  
Measuring range: 5 mm

1044S-60

Waterproof

## SPECIFICATIONS

Metric		Graduation	Range (range/rev)	Accuracy*				Repeat- ability	Dial reading	Measuring force
Order No.	w / lug			Overall	Retrace	1/10 Rev	1 Rev			
1013S-10	1013SB-10	0.002 mm	1 mm (0.2 mm)	6 μm	2.5 μm	2.5 μm	5 μm	1 μm	0-100-0	1.5 N or less
1040S	1040SB	0.01 mm	3.5 mm (0.5 mm)	13 μm	4 μm	8 μm	11 μm	3 μm	±0-50	1.4 N or less
1041S	1041SB	0.01 mm	3.5 mm (0.5 mm)	13 μm	4 μm	8 μm	11 μm	3 μm	0-25-0	1.4 N or less
1044S	1044SB	0.01 mm	5 mm (1 mm)	13 μm	4 μm	8 μm	11 μm	3 μm	±0-100	1.4 N or less
1044S-15	1044SB-15	0.01 mm	5 mm (1 mm)	13 μm	4 μm	8 μm	11 μm	3 μm	±0-100	0.4 N or less*
1044S-60	1044SB-60	0.01 mm	5 mm (1 mm)	13 μm	4 μm	8 μm	11 μm	3 μm	±0-100	2.0 N or less
1045S	1045SB	0.01 mm	5 mm (1 mm)	13 μm	4 μm	8 μm	11 μm	3 μm	0-50-0	1.4 N or less
1109S-10	1109SB-10	0.001 mm	1 mm (0.2 mm)	5 μm	2 μm	2.5 μm	4.5 μm	1 μm	0-100-0	1.5 N or less
1124S	1124SB	0.005 mm	3.5 mm (0.5 mm)	12 μm	3.5 μm	6 μm	10 μm	3 μm	±0-50	1.4 N or less

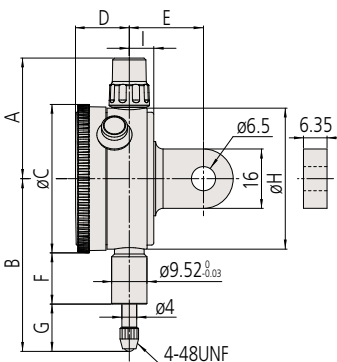
\* Completed products inspection is performed in the vertical position (contact point downward) and the stated accuracy is guaranteed.

Inch		Graduation	Range (range/rev)	Accuracy*				Repeat- ability	Dial reading	Measuring force
Order No.	w / lug			First 1 Rev / 2.5 Rev / 10 Rev	Retrace	1/10 Rev	1 Rev			
1410S	1410SB	0.001 in	0.25 in (0.1 in)	±0.001 in / ±0.001 in / —	0.0002 in	±0.0002 in	0-100	1.4 N or less	0-100	1.4 N or less
1411S	1411SB	0.001 in	0.25 in (0.1 in)	±0.001 in / ±0.001 in / —	0.0002 in	±0.0002 in	0-50-0	1.4 N or less	0-50-0	1.4 N or less
1410S-10	1410SB-10	0.001 in	0.25 in (0.1 in)	±0.001 in / ±0.001 in / —	0.0002 in	±0.0002 in	0-100	1.4 N or less	0-100	1.4 N or less
1780S	1780SB	0.001 in	0.125 in (0.05 in)	±0.001 in / ±0.001 in / —	0.0002 in	±0.0002 in	0-50	1.4 N or less	0-50	1.4 N or less
1781S	1781SB	0.001 in	0.125 in (0.05 in)	±0.001 in / ±0.001 in / —	0.0002 in	±0.0002 in	0-25-0	1.4 N or less	0-25-0	1.4 N or less
1506S	1506SB	0.0005 in	0.125 in (0.05 in)	±0.0005 in / ±0.0005 in / —	0.00016 in	±0.0001 in	0-50	1.4 N or less	0-50	1.4 N or less
1507S	1507SB	0.0005 in	0.125 in (0.05 in)	±0.0005 in / ±0.0005 in / —	0.00016 in	±0.0001 in	0-25-0	1.4 N or less	0-25-0	1.4 N or less
1670S	1670SB	0.0005 in	0.1 in (0.04 in)	±0.0005 in / ±0.0005 in / —	0.00016 in	±0.0001 in	0-40	1.4 N or less	0-40	1.4 N or less
1671S	1671SB	0.0005 in	0.1 in (0.04 in)	±0.0005 in / ±0.0005 in / —	0.00016 in	±0.0001 in	0-20-0	1.4 N or less	0-20-0	1.4 N or less
1802S-10	1802SB-10	0.0001 in	0.025 in (0.01 in)	±0.0001 in / ±0.0001 in / —	0.00003 in	±0.00003 in	0-10	1.5 N or less	0-10	1.5 N or less
1803S-10	1803SB-10	0.0001 in	0.025 in (0.01 in)	±0.0001 in / ±0.0001 in / —	0.00003 in	±0.00003 in	0-5-0	1.5 N or less	0-5-0	1.5 N or less

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

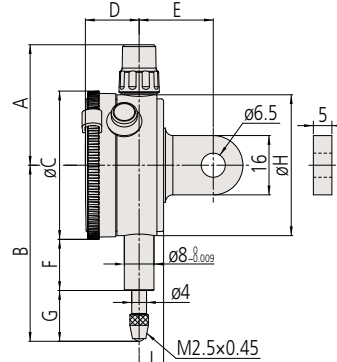
## DIMENSIONS

### ANSI/AGD Type



Note 1: Dimensions of the inch (ANSI/AGD Type) dial indicator partly differ from those of the metric (ISO/JIS Type) indicator.  
Note 2: Inch (ANSI/AGD Type) dial indicators are provided with a stem of 3/8 inch dia. and #4-48UNF thread mount for the contact point.

### ISO/JIS Type



Unit: mm

Order No.	A	B	C	D	E	F	G	H	I
1410S	32.5	47.6	40	14.5	19	12.8	14.8	38	6.6
1411S	32.5	47.6	40	14.5	19	12.8	14.8	38	6.6
1410S-10	32.5	47.6	40	14.5	19	12.8	14.8	38	6.6
1780S	32.5	44.1	40	14.5	19	12.8	11.3	38	6.6
1781S	32.5	44.1	40	14.5	19	12.8	11.3	38	6.6
1506S	32.5	44.1	40	14.5	19	12.8	11.3	38	6.6
1507S	32.5	44.1	40	14.5	19	12.8	11.3	38	6.6
1670S	32.5	43.4	40	14.5	19	12.8	10.6	38	6.6
1671S	32.5	43.4	40	14.5	19	12.8	10.6	38	6.6
1802S-10	32.5	41.3	40	14.5	19	12.5	8.5	38	6.6
1803S-10	32.5	41.3	40	14.5	19	12.5	8.5	38	6.6

Order No.	A	B	C	D	E	F	G	H	I
1013S-10	32.5	49	40	14.5	20	13.8	15.2	38	6.6
1040S	32.5	46	40	14.5	20	13.8	12.2	38	6.6
1041S	32.5	46	40	14.5	20	13.8	12.2	38	6.6
1044S	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1044S-15*	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1044S-60	32.5	57	40	14.5	20	12.2	24.8	38	6.6
1045S	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1109S-10	32.5	49	40	14.5	20	13.8	15.2	38	6.6
1124S	32.5	46	40	14.5	20	13.8	12.2	38	6.6

\* 2 Use in a vertical position (contact point downward) for the low measuring force model.