

Dial Indicators

SERIES 2 — Metric Standard Type

Series 2 dial indicators are Mitutoyo's most popular, and have the widest application.

FEATURES

- Standard 0.01mm graduation dial gauges having an outer frame with an outside diameter of 57mm. All types come with limit pins and an outer frame clamp as standard.
- The outer 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.
- Secured adhesion between the outer frame and crystal as well as the use of an O-ring ensure countermeasures against water and oil permeation via the front face.
- The stem spindle is made of high-strength quench-hardened stainless steel which resists strenuous use.
- A carbide contact point is used.
- The grand gear uses stainless steel that is resistant to wear and deformation.
- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.



2X Long stem type



Jeweled bearing type



w/ damper at



Shockproof type



w/ coaxial revolution



Reverse reading type



ISO/JIS type



20465 2046SH 20465-09 2046S-15 20465-80 2046SLB





20465-60



20475

SPECIFICATIONS

Metric Stem dia. ø8mm M2.5 x 0.45 Thread

Graduation	Range	Range / Rev	Dial reading	Order No.			Measuring								
				w/ lug	Flat-back	Accuracy	force	3	O	Į2X				1	\$
0.001mm	1mm	(0.1mm)	0-100	2110S-10	2110SB-10	±0.005mm	1.5N or less	1			1	1			
0.001mm	1mm	(0.1mm)	0-100	2110S-70	2110SB-70	±0.005mm	2.0N or less	1	~		1	~			
0.001mm	1mm	(0.2mm)	0-100-0	2109S-10	2109SB-10	±0.005mm	1.5N or less	1			1				
0.001mm	1mm	(0.2mm)	0-100-0	_	2109SLB-10	±0.005mm	1.5N or less	V		V	1				
0.001mm	1mm	(0.2mm)	0-100-0	2109S-70	2109SB-70	±0.005mm	2.0N or less	V	V		1				
0.001mm	2mm	(0.2mm)	0-100-0	2113S-10	2113SB-10	±0.007mm	1.5N or less	/			1				
0.001mm	5mm	(0.2mm)	0-100-100	2118S-10	2118SB-10	±0.010mm	1.5N or less				1				
0.001mm	5mm	(0.2mm)	0-100-0	2119S-10	2119SB-10	±0.010mm	1.5N or less				1				
0.005mm	5mm	(0.5mm)	0-50	2124S-10	2124SB-10	±0.012mm	1.5N or less				1				
0.01mm	5mm	(1mm)	0-100	20445	2044SB	±0.012mm	1.4N or less								
0.01mm	5mm	(1mm)	0-100	20445-09	2044SB-09	±0.013mm	1.4N or less	1							
0.01mm	5mm	(1mm)	0-100	20445-60	2044SB-60	±0.012mm	2.5N or less		>						
0.01mm	5mm	(1mm)	0-50-0	20455	2045SB	±0.012mm	1.4N or less							1	
0.01mm	10mm	(1mm)	0-100	20465	2046SB	±0.013mm	1.4N or less								
0.01mm	10mm	(1mm)	0-100	2046SY	2046SYB	±0.013mm	1.4N or less								
0.01mm	10mm	(1mm)	0-100	2046SH	2046SHB	±0.08mm	1.4N or less								
0.01mm	10mm	(1mm)	0-100	_	2046SLB	±0.013mm	1.4N or less			V					
0.01mm	10mm	(1mm)	0-100	2046S-09	2046SB-09	±0.015mm	1.4N or less	1							
0.01mm	10mm	(1mm)	0-100	2046S-60	2046SB-60	±0.013mm	2.5N or less		>						
0.01mm	10mm	(1mm)	0-100	2046S-69	2046SB-69	±0.015mm	2.5N or less	1	>						
0.01mm	10mm	(1mm)	0-100	2046S-15	2046SB-15	±0.013mm	0.8N or less*				1				
0.01mm	10mm	(1mm)	0-100	2310S-10	2310SB-10	±0.015mm	1.4N or less				1		/		
0.01mm	10mm	(1mm)	100-0	29025	2902SB	±0.013mm	1.4N or less							/	
0.01mm	10mm	(1mm)	0-50-0	20475	2047SB	±0.013mm	1.4N or less								
0.01mm	20mm	(1mm)	0-100	2050S	2050SB	±0.020mm	2.0N or less								1
0.01mm	20mm	(1mm)	0-100	2050S-60	2050SB-60	±0.020mm	2.5N or less		>						
0.01mm	20mm	(1mm)	0-100	2050S-19	2050SB-19	±0.020mm	2.0N or less	1			1				~
0.01mm	20mm	(1mm)	0-100	2320S-10	2320SB-10	±0.020mm	2.0N or less				1		~		1
0.01mm	30mm	(1mm)	0-100	20525	2052SB	±0.025mm	2.5N or less								~
0.01mm	30mm	(1mm)	0-100	2052S-19	2052SB-19	±0.025mm	2.5N or less	/			1				1
0.01mm	30mm	(1mm)	0-100	2330S-10	2330SB-10	±0.025mm	2.5N or less				1		~		1
0.01mm	30mm	(1mm)	100-0	29525	2952SB	±0.025mm	2.5N or less							V	1

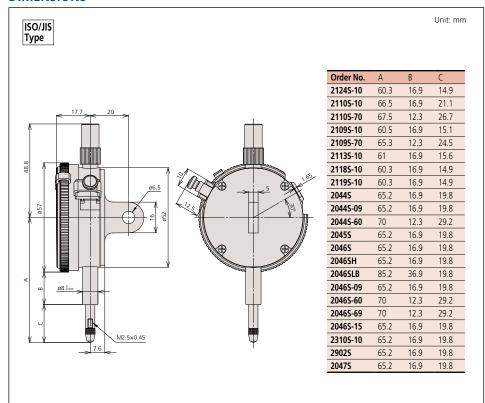
^{*}Use in a vertical position only (contact point downward).

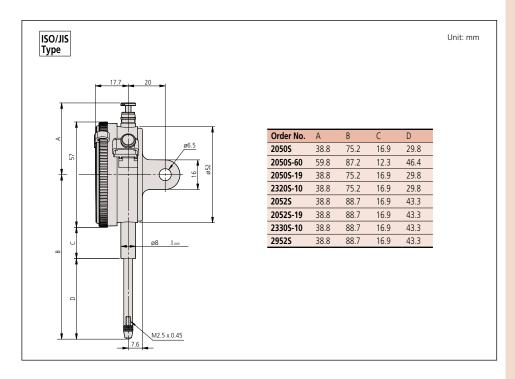


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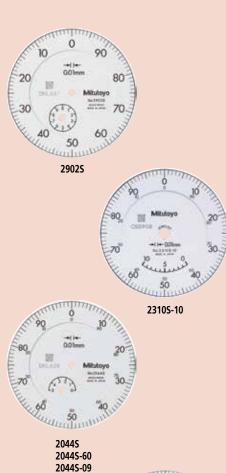
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DIMENSIONS











Optional Accessories

Backs (See page F-33.)
Contact points (See page F-34.)