

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 gages having an outer frame with an outside diameter of 57mm. All types come with limit pins and an outer-frame clamp as
- 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, protect against water and oil permeation via the front face.
- The stem spindle is made of high-strength quench-hardened stainless steel for longevity.
- 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 gage highly scratch- and chemical-resistant.



Shockproof type



Waterproof type



Long stem type



Jeweled bearing type



Double scale spacing



w/ coaxial revolution



Reverse reading type



w/ damper at

SPECIFICATIONS



20465 20465-09



20465-60



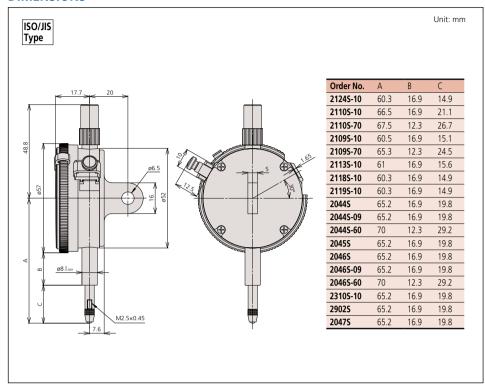
Metric Stem dia. ø8mm M2.5 x 0.45 Thread									ISO/JIS type						
Graduation	Range	Range / Rev	Dial reading	Order No. w/ lug	Flat-back	Accuracy	Measuring Force	3	O	<u>I</u> 2X	₩			Ð	5
0.001mm	1mm	(0.1mm)	0-100	2110S-10	2110SB-10	±0.005mm	1.5N or less	~			~	~			
0.001mm	1mm	(0.1mm)	0-100	2110S-70	2110SB-70	±0.005mm	2.0N or less	~	~		~	~			
0.001mm	1mm	(0.2mm)	0-100-0	2109S-10	2109SB-10	±0.005mm	1.5N or less	~			~				
0.001mm	1mm	(0.2mm)	0-100-0	2109S-70	2109SB-70	±0.005mm	2.0N or less	~	~		~				
0.001mm	2mm	(0.2mm)	0-100-0	2113S-10	2113SB-10	±0.007mm	1.5N or less	~			~				
0.001mm	5mm	(0.2mm)	0-100-100	21185-10	2118SB-10	±0.010mm	1.5N or less				~				
0.001mm	5mm	(0.2mm)	0-100-0	2119S-10	2119SB-10	±0.010mm	1.5N or less				~				
0.005mm	5mm	(0.5mm)	0-50	2124S-10	2124SB-10	±0.012mm	1.5N or less				~				
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	~							
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								
0.01mm	10mm	(1mm)	0-100	20465	2046SB	±0.013mm	1.4N or less								
0.01mm	10mm	(1mm)	0-100	20465-09	2046SB-09	±0.015mm	1.4N or less	~							
0.01mm	10mm	(1mm)	0-100	20465-60	2046SB-60	±0.013mm	2.5N or less		~						
0.01mm	10mm	(1mm)	0-100	2310S-10	2310SB-10	±0.015mm	1.4N or less				~		/		
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	20505	2050SB	±0.020mm	2.0N or less								~
0.01mm	20mm	(1mm)	0-100	2050S-60	2050SB-60	±0.020mm	2.5N or less		1						
0.01mm	20mm	(1mm)	0-100	2050S-19	2050SB-19	±0.020mm	2.0N or less	~			~				1
0.01mm	20mm	(1mm)	0-100	2320S-10	2320SB-10	±0.020mm	2.0N or less				~		V		1
0.01mm	30mm	(1mm)	0-100	20525	2052SB	±0.025mm	2.5N or less								1
0.01mm	30mm	(1mm)	0-100	20525-19	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				~		V		1
0.01mm	30mm	(1mm)	100-0	29525	2952SB	±0.025mm	2.5N or less							1	1

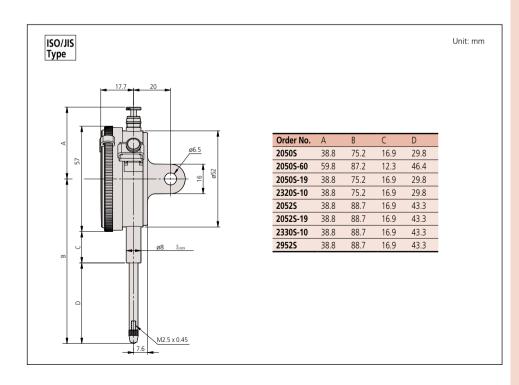
^{*}Use in a vertical position only (contact point downward).

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DIMENSIONS











23105-10



20445

20445-60 20445-09 10 10 10 20 Millutoyo 20 30 40 40 20455

Optional Accessories

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

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