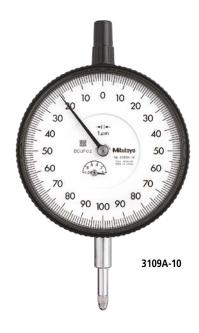
Dial Indicators

SERIES 3 – Large Dial Indicators

- 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*1 (optional) can be attached to either the right or left side. These parts can be easily installed and removed without tools.
- *1 Can be attached only to **3046A**, **3047A**, **3050A**, and **3109A-10**.





Specifications

metre -										
Code No.	Range (range/rev)	Max. permissible error Indication error 1/10 rev 1/2 rev 1 rev Overall Hysteresis Repeatability					Scale	Measuring force		
Graduation:	0.01 mm									
3046A	10 mm (1 mm)	Г	9 μm 10 μm	10 um	15	2	2	±0-100	1.4 N or less	
3047A	10 111111 (1 111111)	5 μm		15 μm	3 µm	3 µm	0-50-0	1.411 01 1833		
3050A	20 mm (1 mm)	8 µm	10 μm		20 µm	5 μm	4 μm		2.0 N or less	
3052A-19	30 mm (1 mm)	10 μm	15 µm	25 µm	7 μm			2.5 N or less		
3058A-19	50 mm (1 mm)	ΙΟμπ	12 µm		30 µm	8 µm	5 μm	±0-100	3.0 N or less	
3060A-19* ²	80 mm (1 mm)	12 µm	12 17	' μm 20 μm	45 µm	- 9 μm	Σ μιτι			
3062A-19* ²	100 mm (1 mm)	12 μ111	17 μιτι		50 µm	μιιι			3.2 N or less	
Graduation:	Graduation: 0.001 mm									
3109A-10	1 mm (0.2 mm)	2 µm	3.5 µm	4 µm	5 µm	2 µm	0.5 µm	0-100-0	1.5 N or less	

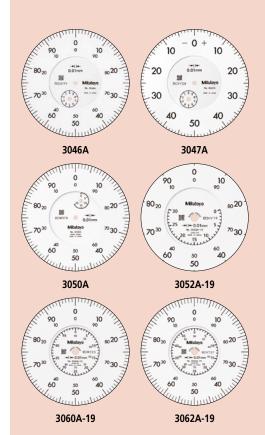
П	a ch	

Code No.	Range		Coolo	Measuring					
	(range/rev)	First rev/2.5 rev/10 rev	Retrace Repeatability		Scale	force			
Graduation: .001"									
3414A	.5" (.1")	±.001"/±.001"/±.001"	.0002"		±0-100	- 1.8 N or less			
3415A	.5 (.1)	1 ±.001 / ±.001 / ±.001			0-50-0				
3416A	1" (.1")	±.001"/±.001"/±.002"	.0002		±0-100	1.014 01 1033			
3417A	1 (.1)	1 ±.001 / ±.001 / ±.002			0-50-0				
3424A-19	2" (.1")	±.001"/±.001"/±.002"/ ±.003" (20 rev)		±.0002"		3.0 N or less			
3426A-19*2	3" (.1")	±.001"/±.001"/±.002"/ ±.003" (20 rev)/±.005"	.00033"		±0-100				
3428A-19*2	4" (.1")	(over 20 rev)				3.2 N or less			
Graduation: .0001"									
3802A-10	.025" (.01")	±.0001"/±.0001"/—	.0001"	±.00003"	0-10	2.0 N or less			
3803A-10	.023 (.01)	1.0001 /1.0001 /	.0001	±.00003	0-5-0				

^{*2} Use in a vertical orientation only (contact point downward).

^{*3} Completed products inspection is performed in the vertical orientation (contact point downward) and the stated accuracy is guaranteed.







Features

Metric

Code No.	90 0 10	10 0 10	3	3	₩	
3046A	1	_	_	_	_	_
3047A	_	1	_	_	_	_
3050A	1	_	_	1	_	_
3052A-19	1	_	1	_	1	1
3058A-19	1	_	1	_	1	1
3060A-19	1	_	1	_	1	1
3062A-19	1		1		1	1
3109A-10	_	1	1	_	1	_

Inch

Code No.	90 0 10	10 0 10	3	5	₩	
3414A	1	_	_	_	_	_
3415A	_	1	_	_	_	_
3416A	1	_	_	_	_	_
3417A	_	1	_	_	_	_
3424A-19	1	_	1	_	1	1
3426A-19	1	_	1	_	1	1
3428A-19	1	_	1	_	1	1
3802A-10	1	_	1	_	1	_
3803A-10	_	1	1	_	1	_

Optional Accessories

Code No.	Description	
21AZB148	Bezel clamp (for metric models)	
21AZB195	Limit hand (2 pcs.)	
21RZA065	Bezel clamp (for inch models)	

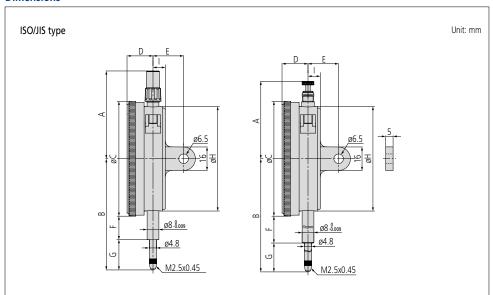
Contact points for Mitutoyo's dial indicators refer to pages F-35 to F-38 for details.

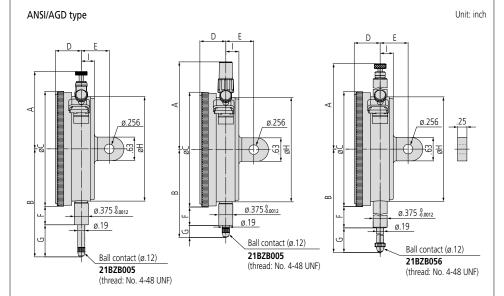
Interchangeable backs refer to page F-39 for details. Plunger lifting aids refer to page F-40 for details. Measuring stands refer to pages F-67 to F-72 for details.

Dial Indicators

SERIES 3 – Large Dial Indicators

Dimensions





Code No.	А	В	C	D	E	F	G	Н	I	
ISO/JIS type	ISO/JIS type									
3046A	61.2	75.5		78 17.7		15.9	20.6	71	9	
3047A	01.2	/3.3					20.0			
3050A	52.6	94				25.9	29.1			
3052A-19	72.9	104.3	78		21	23.9	39.4			
3058A-19	81.9	142.3				43.9	59.4			
3060A-19	120.9	202.3				73.9	89.4			
3062A-19	141.9	243.3			94.9	109.4				
3109A-10	61.2	79				25.9	14.1			
ANSI/AGD ty	pe									
3414A		2.89					.86			
3415A	2.07				.50	.00				
3416A	2.07	3.39				.50	1.36			
3417A		3.33					1.50			
3424A-19	3.31	5.88	3.07	.70	3/4	1.99	2.35	2.80	.35	
3426A-19	4.84	7.80				2.91	3.35			
3428A-19	5.67	9.63				3.74	4.35			
3802A-10	2.41	2.35				.50	.32			
3803A-10	2.41	2.33				.50	.32			

