# **Dial Indicators**

# SERIES 3 and 4 - Long Stroke Large Dial Indicators

- Dial indicators with a large-diameter dial face for easy reading.
- Models with longer measuring ranges are also available.
- Both the stem and the plunger are made of high-strength quench-hardened stainless steel suitable for heavy-duty use.
- All types are supplied with limit markers and a bezel clamp as standard.
- The bezel clamp and lifting lever (optional)\*1 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 Code No. 3046S, 3047S, 3050S, 3109S-10 and 4046S.



## **Specifications**

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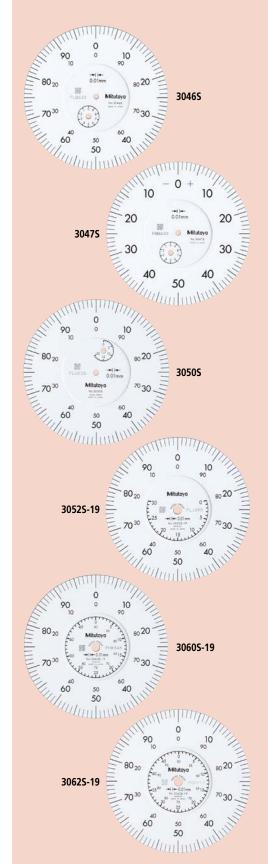
Code No.	Graduation	Range		Accı	ıracy		Repeat-	Scale	Measuring
Code No.		(range/rev)	Overall	Retrace	1/10 rev	1 rev	ability		force
30465		10 mm (1 mm)	15 um	2 um	5 μm	10 μm	3 µm	±0-100	1.4N or less
30475		10 111111 (1 111111)	15 μm	3 µm	ο μιτι	10 μπ	5 μπ	0-50-0	
3050S		20 mm (1 mm)	20 µm	5 µm	8 µm		4 μm		2.0 N or less
3052S-19	0.01 mm	30 mm (1 mm)	25 µm	7 μm	10 μm	15 µm	5 μm	±0-100	2.5 N or less
30585-19		50 mm (1 mm)	30 µm	8 µm	Ιυμπ				3.0 N or less
3060S-19* <sup>2</sup>		80 mm (1 mm)	45 µm	9 µm	12 µm	20 um			3.0 N OI 1633
3062S-19* <sup>2</sup>		100 mm (1 mm)	50 µm	βμιιι	12 μm   20 μm				3.2 N or less
31095-10	0.001 mm	1 mm (0.2 mm)	5 μm	2 µm	2 µm	4 μm	0.5 µm	0-100-0	1.5 N or less
40465	0.01 mm	10 mm (1 mm)	15 µm	3 µm	5 μm	10 µm	3 µm	±0-100	1.4N or less

## Inch

Code No.	Graduation	Range (range/rev)	Accuracy First rev / 2.5 rev / 10 rev	Retrace	Repeat- ability	Scale	Measuring force
3414S		.5" (.1")	±.001" / ±.001" / ±.001"			±0-100	1.8 N or less
3415S		.5 (.1)		.0002"	±.0002"	0-50-0	
3416S		1" (.1")	±.001" / ±.001" / ±.002"	.0002		±0-100	
34175	.001"	1 (.1 )	1.001 / 1.001 / 1.002			0-50-0	
34245-19	.001	2" (.1")	±.001" / ±.001" / ±.002" / ±.003" (20 rev)	.00033"	±.0002	±0-100	3.0 N or less
3426S-19* <sup>2</sup>		3" (.1")	±.001"/±.001"/±.002"/±.003"	.00055			
3428S-19* <sup>2</sup>		4" (.1")	(20 rev) / ±.005" (over 20 rev)				3.2 N or less
3802S-10	.0001"	.025"	±.0001"/±.0001"/—	.0001"	±.00003"	0-10	2.0 N or less
3803S-10	.0001	(.01")	±.0001 / ±.0001 / —	.0001	±.00003	0-5-0	
4887S-19* <sup>2</sup>	.001 "	3" (.1")	±.001" / ±.001" / ±.002" / ±.003" (20 rev) / ±.005" (over 20 rev)	.00033"	±.0002"	±0-100	3.0 N or less

<sup>\*2</sup> Use in a vertical orientation only (contact point downward).





#### Features Metric

Inch

Metric						
Code No.	90 0 10	10 0 10	3	3	<b>₩</b>	
3046S	1	_	_	_	_	_
3047S	_	1	_	_	_	_
3050S	1	_	_	1	_	_
3052S-19	1	_	1	_	1	1
3058S-19	1	_	1	_	1	1
3060S-19	1	_	1	_	1	1
3062S-19	1	_	1	_	1	1
3109S-10	_	1	1	_	1	_
4046S	1	_	_	_	_	_

IIICII						
Code No.	90 0 10	10 0 10	3	3	<b>₩</b>	
3414S	1	_	_	_	_	_
3415S	_	1	_	_	_	_
3416S	1	_	_	_	_	_
34175	_	1	_	_	_	_
3424S-19	1	_	1	_	1	1
3426S-19	1	_	1	_	1	1
34285-19	1	_	1	_	1	1
3802S-10	1	_	1	_	1	_
3803S-10	_	1	1	_	1	_
4887S-19	1	_	1	_	1	1

## **Optional Accessories**

**Contact points** for Mitutoyo's dial indicators refer to pages F-37 to F-40 for details.

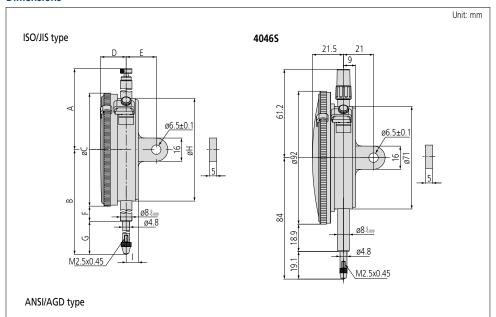
Interchangeable backs refer to page F-41 for details.

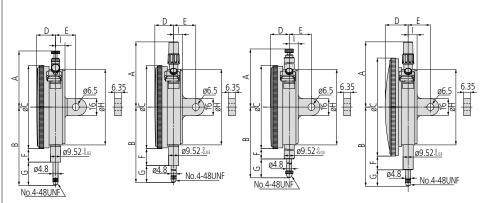
Plunger lifting aids refer to page F-42 for details.

Measuring stands refer to pages F-67 to F-72 for details.



#### **Dimensions**





Code No.	A	B	(	ט	Ł	F	G	H	
ISO/JIS type									
3046S	61.2	75.5			21	15.9	20.6	- - - 71	9
30475	01.2	/3.3					20.0		
3050S	52.6	94		17.7		25.9	29.1		
3052S-19	72.9	104.3	78				39.4		
3058S-19	81.9	142.3	/ 0	17.7		43.9	59.4		9
3060S-19	120.9	202.3				73.9	89.4		
3062S-19	141.9	243.3				94.9	109.4		
3109S-10	61.2	79				25.9	14.1		
ANSI/AGD ty	pe .								
3414S		73.4			12.6 34.5 34.5 19 50.6 59.7	12.6	21.8		
3415S	52.6	73.4							
3416S	32.0	86.1				24.5			
34175		00.1					34.5	71	9
3424S-19	84	149.3	78	17.7		50.6	59.7		
3426S-19	123	198.1				73.9	85.2		9
34285-19	144	244.5				94.9	110.6		
3803S-10	61.2	59.7				12.6	8.1		
3802S-10	01.2	39.7				12.0	0.1		
4887S-19	123	198.1	92	21.5		66.9	85.2		

