# **Dial Indicators**

### SERIES 2 – 0.01 mm Graduation Dial Indicators

- Standard 0.01 mm graduation dial gauges having a bezel with an outside diameter of 57 mm. All types come with limit markers and a bezel clamp as standard.
- The bezel 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.
- Secure adhesion between the bezel and crystal as well as the use of an O-ring prevents water or oil penetration.
- The stem and plunger are made of high-strength quench-hardened stainless steel suitable for heavyduty use.
- A carbide contact point is used.
- The grand gear is made of stainless steel with high resistance to wear and deformation.
- Application of a hard coating on the surface of the crystal makes it highly resistant to scratching and chemical attack.



## 20 2047S 30 30 40 40 50 0 unun 29025 40 60 TITT 50 23105-10 30 50 2044S 44411

### Specifications Metric

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Code No.	Graduation	Range (range/rev)		Αςςι	uracy	Repeat-	Scale	Measuring		
			Overall	Retrace	1/10 rev	1 rev	ability	Jeane	force	
2046S	0.01 mm	10 mm (1 mm)	13 µm	3 µm	5 µm	10 µm	3 µm	±0-100	1.4 N or less	
20465-60									2.5 N or less	
20475								0-50-0	1.4 N or less	
29025								100-0		
2310S-10			15 µm						1.411 01 1855	
2044S		5 mm (1 mm)	12 µm					±0-100		
2044S-60								±0-100	2.5 N or less	
20445-09			13 µm						1.4 N or less	
20455			12 µm					0-50-0	1.411 01 1633	

# **Mitutoy**o

F-23

### Features

### Metric

Code No.	90 ° 10	10 0 10	3	•	<b>\</b>		£
2044S	1	—	—	—	_	—	—
20445-09	1	—	1	_	_	_	_
2044S-60	1	_	_	1	_	_	—
20455	—	1	—	—	_	—	—
20465	1	—	—	—	_	—	—
20465-60	1	—	—	1	_	_	_
20475	—	1	_	_	_	_	—
2310S-10	1	—	—	_	1	1	—
29025	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





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 indicator is provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.

Code No.	А	В	С	D	E	F	G	H	l I
2044S		65.2	57	17.7	20	16.9	19.8	52	7.6
20445-09						10.9	19.0		
2044S-60		70				12.3	29.2		
20455		65.2				16.9	19.8		
20465	48.8								
20465-60	-	70				12.3	29.2		
20475						16.9	19.8		
2310S-10		65.2							
29025									



Unit: mm



