# **Dial Indicators**

### SERIES 2 – Long Stroke Dial Indicators

- Long stroke dial indicators with a ø57 mm outer frame. All models are equipped with limit markers and a bezel clamp as standard.
- An O-ring is employed to ensure air-tightness between the outer frame and the crystal case to prevent water or oil penetration.
- Both the stem and the plunger are made of high-strength quench-hardened stainless steel suitable for heavy-duty use.
- A carbide-tipped contact point is employed.
- 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.
- 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.





## Specifications

Inch

weunc								1	
Code No.	Graduation	Range	Accuracy				Repeat-	Scale	Measuring
		(range/rev)	Overall	Retrace	1/10 rev	1 rev	ability		force
2050S		20 mm ( 1 mm)	20 µm	5 µm	8 µm	15 µm	4 µm	±0-100	2.0 N or less
23205-10	0.01 mm								
20525	0.01 11111	30 mm (1 mm)	25 um	7 um	10 um	15 um	5 µm		2.5 N or less
2330S-10		50 mm (1 mm)	25 µm	7 µm		ισμιι	Jμπ		2.511 01 1655

inch							
Code No.	Graduation	Range (range/rev)	Accuracy First rev / 2.5 rev / 10 rev	Repeat- ability	Scale	Measuring force	
24466		(lungerev)		Retrace	ubility		TOTEC
24165				.0002"	±.0002"	±0-100	1.8N or less 2.5N or less
2416S-10		1" (.1")	1" (.1") ±.001" / ±.001" / ±.002"				
24175	.001"					0-50-0	
24245-19		2" (.1")	±.001" / ±.001" / ±.002" / ±.003" (first 20 rev)	.00033"		±0-100	
2776S	.0005"	1" (.05")	±.0005" / ±.0005" / ±.0015"	.0002"	±.0001"	±0-50	
2904S	.001 "	1" (.1")	±.001"/±.001"/±.002"	.0002	±.0002"	100-0	1.8 N or less

tuto	
LULU	

F-31

#### Features

#### Metric

Code No.	90 ° 10	10 0 10	3	3	$\bigotimes$		Ð
20505	1	—	—	1	_	—	—
20525	1	—	—	1	_	—	—
2320S-10	1	—	—	1	1	1	_
2330S-10	1	—	—	1	1	1	_
Inch							
Code No.	90 10	10 0 10	2	3	<b>\</b>		Ð
2416S	1	—	—	—	—	—	—

2416S	1	—	—	—	—	—	—
2416S-10	1	—	—	—	1	—	—
2417S	—	1	—	—	—	_	—
2424S-19	~	—	1	—	1	1	_
2776S	1	—	—	—	—	—	—
2904S	~	—	—	—	—	—	<b>\</b>

#### **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.	А	В	С	D	E	F	G	Н	I
ISO/JIS type									
20505		75.2	57	17.7	20	16.9	29.8	52	
20525	38.8	88.7					43.3		7.6
23205-10	50.0	75.2	57	17.7			29.8		7.0
2330S-10		88.7					43.3		
ANSI/AGD ty	pe								
2416S				17.7	19	13.6	34.7		7.6
2416S-10	38.9	76.8							
2417S			57					52	
2424S-19	118	142.5	57	17.7	20.9	54.3	59.7	52	9.5
27765	38.9 76.8	20 76.0			19	13.6	34.7		7.6
2904S		/0.0					54.7		7.0



F-32

Mitutoyo