Back Plunger Type Dial Indicators

SERIES 1 and 2

Mitutoyo guarantees the product quality. PROPRIETARY INSPECTION CERTIFICATE Mitutoyo guarantees the product quality.

Mitutoyo's back plunger type dial indicators are built with the measuring spindles on the back of the units. This type of indicator offers the same precision and durability as all other Mitutoyo dial indicators, and operates very effectively with optional holding bars.

- Back plunger type dial gauges are suitable for mounting onto leveling machine tool tables or inspection jigs, and for use in small spaces where the graduations of standard dial gauges are difficult to see.
- Model No. 1960, which uses Mitutoyo's proprietary shock-proofing mechanism, has excellent durability and shock resistance.

One revolution type Shockproof type Jeweled bearing type

SPECIFICATIONS

Inch Series 1 Stem 3/8" dia. , #4-48 UNF Thread ANSI/AGD type

Graduation	Range	Range / Rev	Dial reading	Order No.	Accuracy	Measuring force			
.001″	.04″	.05″*	20-0-20	**1961**	±.001″	1.4N or less	✔	✔	
.001″	.2″	.05″	0-50	**1166**	±.001″	1.4N or less			
.001″	.2″	.05″	0-25-0	**1167**	±.001″	1.4N or less			
.001″	.2″	.05″	50-0	**1168**	±.001″	1.4N or less			✔

*Full stroke

Metric Series 1 Stem ø8mm, M2.5x0.45 Thread ISO/JIS type

Graduation	Range	Range / Rev	Dial reading	Order No.	Accuracy	Measuring force				Remarks
0.01mm	1mm	1.27mm*	50-0-50	**1960**	±0.014mm	1.4N or less	✔	✔		—
0.01mm	5mm	1mm	0-100	**1160**	±0.016mm	1.4N or less				—
0.01mm	5mm	1mm	100-0	**1162**	±0.016mm	1.4N or less			✔	—

Inch Series 2 Stem 3/8" dia. , #4-48 UNF Thread ANSI/AGD type

Graduation	Range	Range/full stroke	Dial reading	Order No.	Accuracy	Measuring force			
.0001″	.008″	.01″	4-0-4	**2991**	±.0002″	1.5N or less	✔	✔	✔
.0005″	.04″	.05″	20-0-20	**2961F**	±.0005″	1.8N or less	✔	✔	

Metric Series 2 Stem ø8mm, M2.5x0.45 Thread ISO/JIS type

Graduation	Range	Range/full stroke	Dial reading	Order No.	Accuracy	Measuring force			
0.001mm	0.1mm	0.14mm	50-0-50	**2990**	±0.0065mm	1.5N or less	✔	✔	✔
0.01mm	1mm	1.27mm	50-0-50	**2960F**	±0.014mm	1.4N or less	✔	✔	

Optional Accessories

136567: Holding bar (ø6mm, L=81mm)
136568: Holding bar (ø8mm, L=81mm)
124625: Holding bar (.25″ DIA, L=3.19″)

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

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