



For more information on Precision Measuring Instruments, see page 2325.

Mitutoyo

TESA

TESA TECHNOLOGY

brown & sharpe

INSIZE Starrett®

Dial Test Indicators and Sets

Dial drop indicators, also called plunger-style dial indicators or dial indicators, have a dial face fixed to a stem with a contact point on the end. When the contact point touches the work-piece or feature, the up-and-down movement of the plunger is amplified on the graduated dial face. The graduations on a balanced-reading dial indicator increase in both directions from the reference point, while those on a continuous-reading dial indicator increase in one direction, typically clockwise. They are commonly used for setup and calibration applications on the shop floor and other applications for measuring and amplifying slight variations. Back plunger dial indicators are used in applications similar to those of a dial test indicator. Sets include both a dial drop indicator and a holder with a magnetic base.



Range	Accuracy	Graduations	Dial Reading	Dial Size	Dial Color	Series	Brand	Item No.
Horizontal								
0 in to 0.008 in	±0.00005 in	0.00005 in	0-4-0	1.5 in	Black	BESTEST-5	Tesa Brown & Sharpe	5RCL2
	±0.0001 in	0.0001 in	0-40-0	1.18 in	White	INSIZE 2380	Insize	408R81
	±0.0001 in	0.0001 in	0-40-0	1.46 in	White	INSIZE 2381	Insize	408R84
	±0.0001 in	0.0001 in	0-4-0	1 in	Black	BESTEST-5	Tesa Brown & Sharpe	5RCL1
	±0.0001 in	0.0001 in	0-4-0	1 in	White	BESTEST	Tesa Brown & Sharpe	5RCH1
	±0.0001 in	0.0001 in	0-4-0	1.79 in	White	INSIZE 2834	Insize	409L50
	±0.0001 in	0.0001 in	0-4-0	40 mm	White	Mitutoyo 513 Standard	Mitutoyo	5C705
	±0.0001 in	0.001 in	0-100	1.5 in	White	BESTEST	Tesa Brown & Sharpe	5RCH0
	±0.0005 in	0.0005 in	0-15-0	1.5 in	Black	BESTEST-5	Tesa Brown & Sharpe	5RCL4
	±0.0005 in	0.0005 in	0-15-0	1 in	Black	BESTEST-5	Tesa Brown & Sharpe	5RCK9
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.26 in	White	INSIZE 2835	Insize	409L51
	±0.0005 in	0.0005 in	0-15-0	40 mm	White	Mitutoyo 513 Standard	Mitutoyo	4CGR9
	±0.001 in	0.001 in	0-15-0	1 in	Black	BESTEST-5	Tesa Brown & Sharpe	5RCL5
	±0.0005 in	0.001 in	0-15-0	1.46 in	White	INSIZE 2381	Insize	408R86
	±0.0005 in	0.03 in	0-15-0	1 in	White	Valuline	Tesa Brown & Sharpe	49U620
	±0.0005 in	0.0005 in	0-15-0	1.5 in	White	Mitutoyo 513	Mitutoyo	4LA91
	±0.004 mm	0.01 mm	0-100-0	40 mm	Yellow	Mitutoyo 513 Standard	Mitutoyo	4CGR2
	±0.013 mm	0.01 mm	0-40-0	37 mm	White	INSIZE 2381	Insize	54XH64
	±0.008 mm	0.01 mm	0-40-0	40 mm	Yellow	Mitutoyo 513 Standard	Mitutoyo	16X244
	Horizontal, Tilted Face							
0 in to 0.01 in	±0.0001 in	0.0001 in	0-5-0	1.38 in	White; Yellow	Starrett 708	Starrett	2ZUK1
	±0.0005 in	0.0005 in	0-15-0	1.38 in	White; Yellow	Starrett 709	Starrett	2ZUK2
	±0.0005 in	0.0005 in	0-15-0	1.18 in	White	INSIZE 2380	Insize	408R83
	±0.001 in	0.001 in	0-15-0	1.18 in	White	INSIZE 2380	Insize	408R82
	±0.001 in	0.001 in	0-15-0	1.46 in	White	INSIZE 2381	Insize	408R85
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.38 in	White; Yellow	Starrett 709	Starrett	2ZUK5
Long-Stylus Horizontal								
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2383	Insize	409P35
	±0.0005 in	0.0005 in	0-15-0	40 mm	White	Mitutoyo 513 Long Stylus	Mitutoyo	4CGR4
Swivel Head								
0 in to 0.03 in	±0.001 in	0.0005 in	0-15-0	1.5 in	White; Yellow	Starrett 711	Starrett	5UAV3
	±0.001 in	0.001 in	0-15-0	1 in	White; Yellow	Starrett 711	Starrett	2ZUJ6
Swivel-Head, Tilted Face								
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2386	Insize	408R88
Swivel-Head, Vertical								
0 in to 0.06 in	±0.0008 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2480	Insize	55VN03
Tilted Face								
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2399	Insize	409L52
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	40 mm	White	Mitutoyo 513 Tilted Face	Mitutoyo	4CGR5
0 to 0.060 in	—	0.001 in	0-15-0	1 3/8 in	White; Yellow	709	Starrett	6NAZ7
0 to 0.2 mm	—	0.002 mm	0-100-0	1 3/8 in	Yellow	708M	Starrett	6NAZ6
Tilted Face Swivel, Tilted Face								
0 in to 0.016 in	±0.0001 in	0.0001 in	0-4-0	1.5 in	White	Interapid 312	Tesa Brown & Sharpe	5RCK8
	±0.0005 in	0.0005 in	0-15-0	1.5 in	White	Interapid 312	Tesa Brown & Sharpe	5RCK7
	±0.0005 in	0.0005 in	0-15-0	1.25 in	White	Interapid 312	Tesa Brown & Sharpe	5RCL0
Vertical								
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2398	Insize	408R90
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.5 in	Black	Interapid 312	Tesa Brown & Sharpe	5RCL3
Dial Test Indicator Sets								
Back Plunger Indicator Style								
0 to 0.2 in	0.001 in	0-100	1.45			Clamp, Tool Post Holder	Starrett	196A1Z 2ZUJ4
Horizontal Test Indicator Style								
0 in to 0.008 in	0.0001 in	0-4-0	1.57	1/2 and 3/8" Stems, Stem Nut, Swivel Clamp, Square Arm, Plastic Case	Mitutoyo	513-403-10T	1ZRT1	
	0.0001 in	0-5-0	1.30	Holder Rod, Inch Holding Bar, Stem, Swivel Clamp	Mitutoyo	513-504-10T	4CGT2	
0 in to 0.01 in	0.0001 in	0-5-0	1.37	Dovetail Body Clamp, Snug and Rod Unit, Swivel Post Snug w/Dovetail Indicator Clamp, Tool Post Holder	Starrett	708ACZ	2ZUK3	
	0.0005 in	0-15-0		Dovetail Body Clamp, Snug and Rod Unit, Swivel Post Snug w/Dovetail Indicator Clamp, Tool Post Holder	Starrett	709ACZ	2ZUK4	
0 in to 0.03 in	0.0005 in	0-15-0	1.57	3/8 in Stem, 1/2 in Swivel Clamp, Square Arm, Stem Nut	Mitutoyo	513-402-10T	4LA92	
	0.0005 in	0-15-0	1.57	1/2 in Stem; 3/8 in Stem, Long Point, Square Arm, Stem Nut, Swivel Clamp	Mitutoyo	513-412-10T	1ZRT2	
0 in to 0.04 in	0.001 in	0-20-0	1.30	Holder Rod, Inch Holding Bar, Stem, Swivel Clamp	Mitutoyo	513-518T	4CGT4	
0 mm to 0.2 mm	0.002 mm	0-100-0	40mm	1mm Carbide Point, 2mm Carbide Point, 3mm Carbide Point, 4mm Stem, 8 mm Stem, Clamp Ring, Holding Bar, Swivel Clamp, Test Indicator	Mitutoyo	513-405-10T	16X246	
0 mm to 0.7 mm, 0 in to 0.7 in	0.0005 in, 0.01 mm	0-15-0; 0-35-0	1.570	(2) Stems, (3) Carbide Points, Holding Bar, Swivel Clamp	Mitutoyo	513-406-10T	4CGR3	
Swivel Head Test Indicator Style								
0 in to 0.03 in	0.0005 in	0-15-0	1.00	—	—	Starrett	711LCSZ	2ZUJ8
	0.001 in	0-15-0	1.00	—	—	Starrett	711GCSZ	2ZUJ7
Dial Test Indicator & Mag Bases								
0 in to 0.03 in	0.0005 in	0-15-0		—	—	Insize	5023-E	463J50