

Dial Test Indicator

SERIES 513 — Horizontal Type

FEATURES

- Performs easy and accurate measurement of narrow or recessed areas, plus inside and outside diameters that dial indicators cannot access.
- No-clutch structure for automatic reversal of measuring direction.
- Resistant to water and dust thanks to the one-piece bezel and "crystal" design with O-ring.
- The glare-free flat crystal face has a scratch-resistant coating.
- High-sensitivity and quick-response because of jeweled bearings.
- A carbide contact point is provided as standard.



513-424E



513-404E



513-414E



513-415E



513-426E



513-405E



513-425E



513-401E



513-474E

Ruby contact point

Optional Accessory

- : Swivel clamp (See page 278.)
- : Holding bar (See page 278.)
- : Stem (See page 278.)
- : Contact points (See page 278.)

Special Set: No. 513-908 (mm)

- 513-404E: Dial test indicator
- 7014: Mini magnetic stand

No. 513-907 (inch)

- 513-402: Dial test indicator
- 7014: Mini magnetic stand

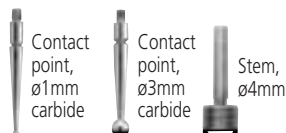


Set Configuration: Metric and Metric/Inch

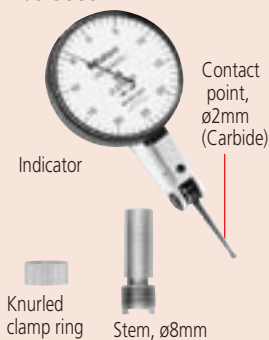
Full set



Plus set

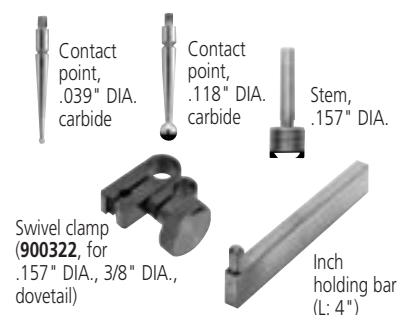


Basic set

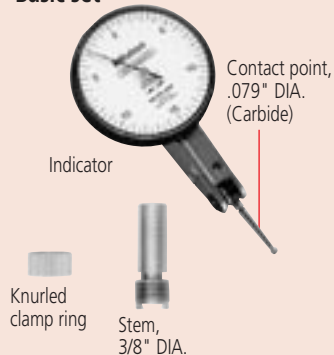


Set Configuration: Inch and Inch/Metric

Full set



Basic set



Anti-magnet type



Double scale spacing type



Long contact point type



Jeweled bearing type



Compact type



With revolution counter type



513-466E



513-464E



513-465E

SPECIFICATIONS

Metric

Graduation	Order No.			Range	Accuracy	Dial reading	Measuring force						
	Basic set	Plus set	Full set										
0.01mm	513-424E	513-424A	513-424T	0.5mm	5μm	0-25-0	0.3N or less	✓	✓	—	✓	—	—
0.01mm	513-414E	513-414A	513-414T	0.5mm	10μm	0-25-0	0.2N or less	✓	✓	✓	✓	—	—
0.01mm	513-466E	—	—	0.5mm	5μm	0-25-0	0.3N or less	✓	✓	—	✓	✓	—
0.01mm	513-404E	513-404A	513-404T	0.8mm	8μm	0-40-0	0.3N or less	✓	—	—	✓	—	—
0.01mm	513-474E*	—	—	0.8mm	8μm	0-40-0	0.3N or less	✓	—	—	✓	—	—
0.01mm	513-464E	—	—	0.8mm	8μm	0-40-0	0.3N or less	✓	—	—	✓	✓	—
0.01mm	513-415E	513-415A	513-415T	1mm	10μm	0-50-0	0.2N or less	✓	—	✓	✓	—	—
0.01mm	513-426E	513-426A	—	1.5mm	8μm	0-25-0	0.4N or less	✓	✓	—	✓	—	✓
0.002mm	513-405E	513-405A	513-405T	0.2mm	3μm	0-100-0	0.3N or less	✓	—	—	✓	—	—
0.002mm	513-465E	—	—	0.2mm	3μm	0-100-0	0.3N or less	✓	—	—	✓	✓	—
0.002mm	513-425E	513-425A	—	0.6mm	6μm	0-100-0	0.4N or less	✓	—	—	✓	—	✓
0.001mm	513-401E	—	—	0.14mm	3μm	0-70-0	0.3N or less	✓	—	—	✓	—	—

*provided with a ø2mm ruby contact point as a substitute for ø2mm carbide contact point.

Inch

Graduation	Order No.			Range	Accuracy	Dial reading	Measuring force						
	Basic set	Plus set	Full set										
.0005"	513-402	—	513-402T	.03"	.0005"	0-15-0	0.3N or less	✓	—	✓	—	—	—
.0005"	513-412	—	513-412T	.03"	.0005"	0-15-0	0.2N or less	✓	✓	✓	—	—	—
.0005"	513-462	—	—	.03"	.0005"	0-15-0	0.3N or less	✓	—	✓	✓	—	—
.0001"	513-403	—	513-403T	.008"	.0001"	0-4-0	0.3N or less	✓	—	✓	—	—	—
.0001"	513-463	—	—	.008"	.0001"	0-4-0	0.3N or less	✓	—	✓	✓	—	—

Metric/inch

Graduation	Order No.			Range	Accuracy	Dial reading	Measuring force						
	Basic set	Plus set	Full set										
0.002mm, .0001"	513-409	—	513-409T	0.2mm, .0075"	3μm	0-10-0, 0-38-0	0.3N or less	✓	✓	—	—	—	—

Inch/Metric

Graduation	Order No.			Range	Accuracy	Dial reading	Measuring force						
	Basic set	Plus set	Full set										
.0005", 0.01mm	513-406	—	513-406T	.03", 0.7mm	.0005"	0-15-0, 0-35-0	0.3N or less	✓	✓	—	—	—	—

DIMENSION

Unit: mm		
Order No.	L	D
513-424E	22.3	ø40
513-404E	20.9	ø40
513-415E	44.5	ø40
513-426E	22.3	ø40
513-405E	14.7	ø40
513-425E	14.7	ø40
513-401E	12.8	ø40
513-466E	22.3	ø28
513-464E	20.9	ø28
513-465E	14.7	ø28
513-414E	36.8	ø40
513-409	14.7	ø40

