"Quick-Set" Test Indicators *Series 513*

513-406

Inch/Metric
"Combitest"

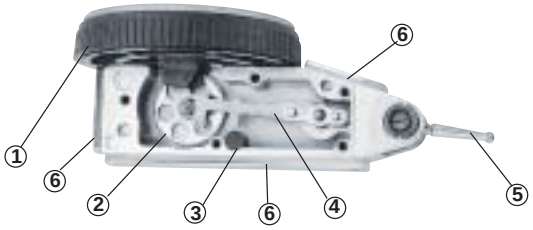
Vertical Type
(Inch)

513-453

513-412

Features

- Anti-magnetic*
- Jeweled bearings
- No-clutch structure
- Water and dust resistant
- Glare-free crystal with scratch-resistant coating
- Metric dial faces in yellow



The most direct gear train design ever applied to Test Indicators means—higher level of sensitivity, reliability, repeatability and accuracy throughout tool life.

Structure

1. "O" ring incorporated in new bezel design seals instrument from dust and oil mist.
2. Enlarged pitch of teeth on crown gear improves ability of indicator to withstand shock.
3. Rubber bumpers limit travel of sector gear and prevent damage due to excessive travel.
4. Special alloy of sector gear provides greater resistance to wear, and longer distance between pivot points of linkage to better protect against shock.
5. Carbide point, .078" DIA., is standard.
6. Dovetails, integral with housing, give broad flexibility for mounting of instruments.

Specifications

"Quick-Set" Test Indicators

Inch/Metric

Graduation	Range	Dial reading	Order No. Basic	Order No. Complete	Accuracy	Type	Remarks
.0005" 0.01mm	.03" 0.7mm	0-15-0 0-35-0	**513-406**	**513-406T**	±.0005"	Horizontal	Combitest Anti-Magnetic

Inch

Graduation	Range	Dial reading	Order No. Basic	Order No. Complete	Accuracy	Type	Remarks
.0001"	.008"	0-4-0	**513-403**	**513-403T**	±.0001"	Horizontal	
.0001"	.008"	0-4-0	**513-453**	**513-453T**	±.0001"	Vertical	
.0001"	.008"	0-4-0	**513-463**	—	±.0001"	Horizontal	Mini-Dial
.0005"	.03"	0-15-0	**513-402**	**513-402T**	±.0005"	Horizontal	
.0005"	.03"	0-15-0	**513-452**	**513-452T**	±.0005"	Vertical	
.0005"	.03"	0-15-0	**513-462**	—	±.0005"	Horizontal	Mini-Dial
.0005"	.03"	0-15-0	**513-282***	**513-982***	±.0005"	Parallel	
.0005"	.03"	0-15-0	**513-412**	**513-412T**	±.0005"	Horizontal	Long Point

*513-282 and 513-982 are not anti-magnetic.

Metric

Graduation	Range	Dial Reading	Order No. Basic	Order No. Complete	Accuracy	Measuring Force	Remarks
0.002mm	0.2mm	0-100-0	**513-405E**	**513-405T**	0.003mm	0.3N or Less	Horizontal
0.002mm	0.2mm	0-100-0	—	**513-455T**	0.003mm	0.3N or Less	Vertical
0.01mm	0.5mm	0-25-0	**513-414E**	**513-414T**	0.01mm	0.2N or Less	Horizontal
0.01mm	0.8mm	0-40-0	**513-404E**	**513-404T**	0.008mm	0.3N or Less	Horizontal
0.01mm	0.8mm	0-40-0	—	**513-454T**	0.008mm	0.3N or Less	Vertical
0.01mm	1.0mm	0-50-0	**513-415E**	**513-415T**	0.01mm	0.2N or Less	Horizontal