

Dial Test Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

Pocket Type Dial Test Indicator SERIES 513

- Slim design is suited for measurement in deep holes.
- Jeweled bearings assure higher sensitivity and accuracy.
Indicator can be mounted by clamping the stem or the body (except for **513-517WE** and **513-517WT**).
- Bezel is sealed with an O-ring to keep out water and oil. (Note that this type is NOT waterproof.)
- Clutch type (with a clutch lever)
- With $\varnothing 2$ mm Carbide contact point
- Jeweled bearing
- Completed products are inspected according to JIS B 7533:1990.



513-518



513-528



513-512



513-504



513-517E
513-517WE



513-515T



513-514E



513-503E



513-501E

Optional Accessories

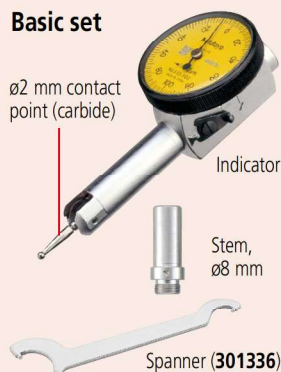
- Swivel clamps (See page F-75)
- Holding bars (See page F-75)
- Stems (See page F-75)
- Contact point (See page F-75)

Set Configuration: Metric

Full set

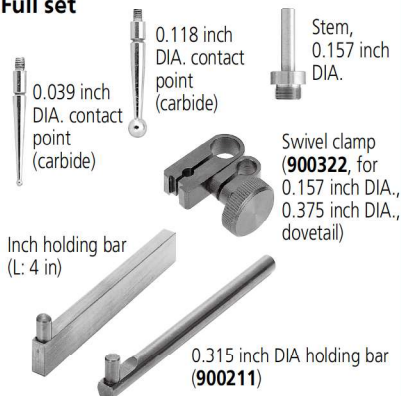


Basic set

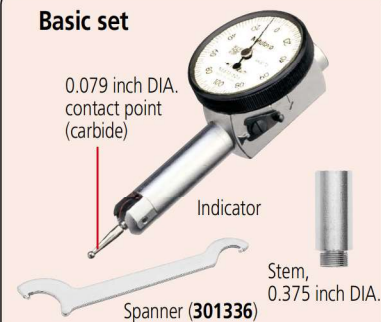


Set Configuration: Inch

Full set



Basic set



Long contact point



Jeweled bearing



Dustproof



Compact

SPECIFICATIONS

Metric

Order No.		Graduation (mm)	Range (mm)	Accuracy (μm)	Dial reading	Measuring force (N)	Long contact point	Jeweled bearing	Compact	Dustproof	—	—
Basic set	Full set											
513-514E	513-514T	0.01	0.5	10	0-25-0	0.3 or less	✓	✓				
513-517E	513-517T	0.01	0.8	8	0-40-0	0.3 or less		✓				
513-517WE	513-517WT	0.01	0.8	8	0-40-0	0.3 or less		✓		✓		
513-527E	513-527T	0.01	0.8	8	0-40-0	0.3 or less		✓	✓			
—	513-515T	0.01	1	10	0-50-0	0.3 or less	✓	✓				
513-503E	513-503T	0.002	0.2	3	0-100-0	0.3 or less		✓				
513-501E	513-501T	0.001	0.14	3	0-70-0	0.4 or less		✓				

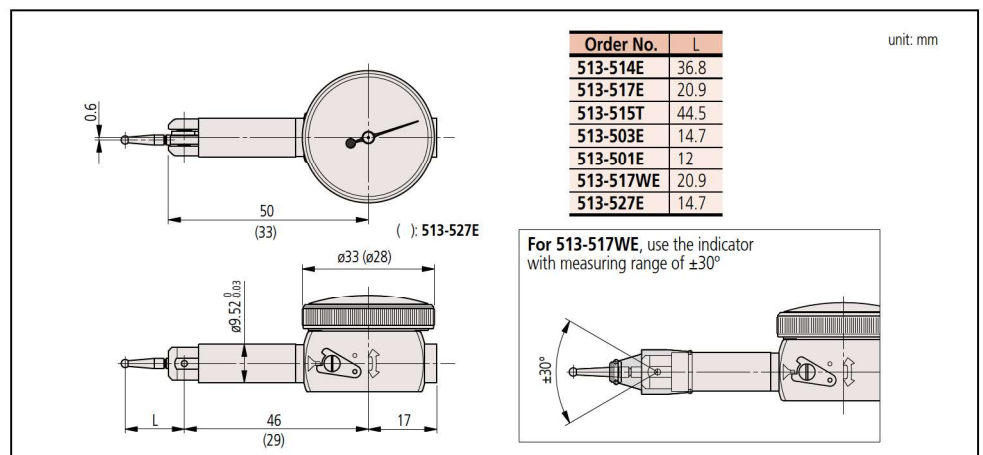
Note: We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.

Inch

Order No.		Graduation (in)	Range (in)	Accuracy (in)	Dial reading	Measuring force (N)	Long contact point	Jeweled bearing	Compact	Dustproof	—	—
Basic set	Full set											
513-518	513-518T	0.001	0.04	±0.001	0-20-0	0.3 or less		✓				
513-528	513-528T	0.001	0.04	±0.001	0-20-0	0.3 or less		✓	✓			
513-512	513-512T	0.0005	0.02	±0.0005	0-10-0	0.3 or less	✓	✓				
513-504	513-504T	0.0001	0.01	±0.0002	0-5-0	0.3 or less		✓				

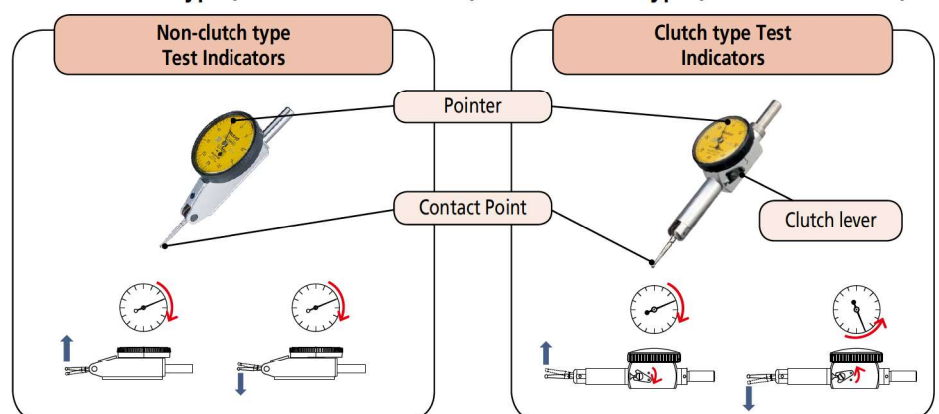
Note: We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.

DIMENSIONS



There are two types of Mitutoyo Dial Test Indicator:

The non-clutch type (without a clutch lever) and the clutch type (with a clutch lever)



In the non-clutch type, although the contact point may move either in the upward or downward direction, the pointer always rotates clockwise.

In the clutch type, if the clutch lever is set in one position the contact point moves in the upward direction and the pointer rotates clockwise. Conversely, if the lever is set in the other position the contact point moves in the downward direction and the pointer rotates counterclockwise.