

Dial Test Indicators

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

SERIES 513 — Dial Test Indicator Features

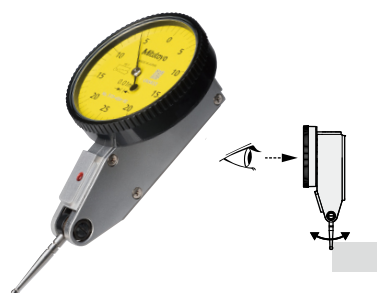
- Designed to probe surfaces that cannot be reached with a normal dial gauge. Useful both for alignment and for measurement purposes.
- Mitutoyo's proprietary new design permits smooth pointer operation.
- Strong frame provides excellent rigidity and durability.
- Non-magnetic pointer and contact point permit reliable operation even in magnetic environments.
- Clear and concise wide dial face allows excellent visibility.
- The surface of the crystal is hard-coated for excellent scratch resistance.
- Flat crystal makes graduations easy to read. Moreover, the O-ring sealing method used for the bezel prevents water or oil penetration. (Note that this type is NOT waterproof.)
- Six types are available: horizontal, horizontal (20° tilted face), vertical, parallel, universal, and pocket, allowing users to select the model most suited to their needs.
 - Horizontal: Standard
 - Horizontal (20° Tilted Face): Dial face inclined 20° compared with the vertical type, allows easy reading.
 - Vertical: Best suited for centering holes under the spindle of a machine tool.
 - Parallel: The scale can be read from the front, with the stylus pivoting in a plane parallel to that of the dial face.
 - Universal: The direction of the probe movement can be freely changed.
 - Pocket: Compact type.

Feature icons

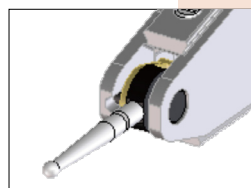
Icon	Feature description
	High accuracy
	With revolution counter
	Long stylus
	Standard
	Double scale spacing
	Compact
	Carbide contact point (Slightly magnetic)
	Ruby contact point (non-magnetic)



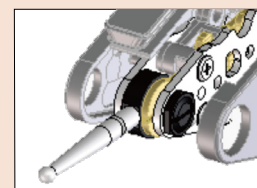
Horizontal



Vertical



Old design: Stylus bearing screw held in frame.



New design: Stylus bearing screw held in sub-plate provides smoother tracking action.

Horizontal (20° Tilted face)



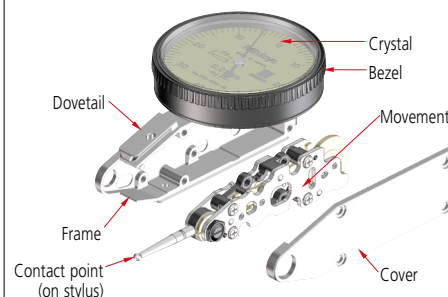
Parallel



Universal



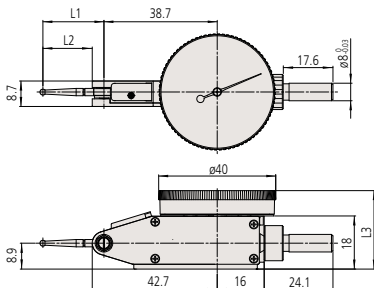
Naming of parts



DIMENSIONS

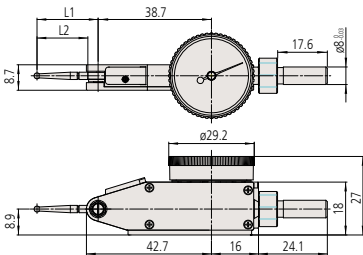
Horizontal

unit: mm



Order No.	L1	L2	L3
513-401-10E	14.7	11.2	27
513-471-10E	18.7	15.2	28
513-405-10E/A/T	20.9	17.4	27
513-475-10E	22.2	18.7	28
513-425-10E/A	37.4	33.9	27
513-404-10E/A/T	44.5	41.0	
513-474-10E			
513-424-10E/A/T			
513-426-10E/A			
513-478-10E			
513-414-10E/A/T			
513-415-10E/A/T			
513-477-10E			

Compact



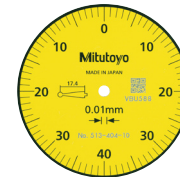
Type	Order No.	L1	L2
Compact	513-465-10E	18.7	15.2
	513-464-10E	20.9	17.4
	513-466-10E	22.2	18.7

Note: A slight difference may occur depending on the center of the contact point, graduation plate, and stem fixing position, etc.

Dial Test Indicator SERIES 513 — Horizontal Type

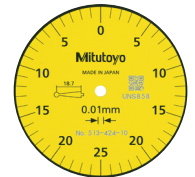
- Provides easy access to shrouded surfaces that cannot be reached with conventional dial indicators.
- No-clutch structure for automatic reversal of measuring direction.
- Resistant to water and dust thanks to the one-piece bezel and O-ring seal for the crystal.

- The glare-free flat crystal face has a scratch-resistant coating.
- High sensitivity and quick response due to low-friction jeweled bearings.



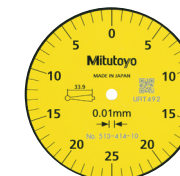
Graduation: 0.01 mm
Range: 0.8 mm

513-404-10E/513-404-10A/
513-404-10T/513-404-10C



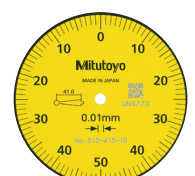
Graduation: 0.01 mm
Range: 0.5 mm

513-424-10E/513-424-10A/
513-424-10T



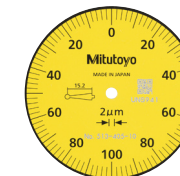
Graduation: 0.01 mm
Range: 0.5 mm

513-414-10E/513-414-10A/
513-414-10T



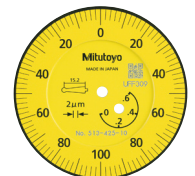
Graduation: 0.01 mm
Range: 1.0 mm

513-415-10E/513-415-10A/
513-415-10T



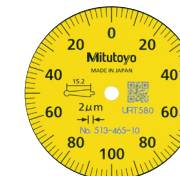
Graduation: 0.002 mm
Range: 0.2 mm

513-405-10E/513-405-10A/
513-405-10T



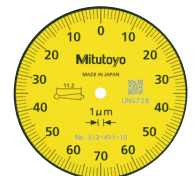
Graduation: 0.002 mm
Range: 0.6 mm

513-425-10E/513-425-10A



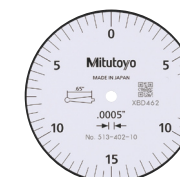
Graduation: 0.002 mm
Range: 0.2 mm

513-465-10E



Graduation: 0.001 mm
Range: 0.14 mm

513-401-10E



Graduation: 0.0005 in
Range: 0.03 in

513-402-10E/513-402-10T



Graduation: 0.0001 in
Range: 0.008 in

513-403-10E/513-403-10T



Special Set: No.513-908-10E(Metric)

513-404-10E: Dial test indicator
7014-10: Mini magnetic stand

No.513-907-10E (inch)

513-402-10E: Dial test indicator
7014E-10: Mini magnetic stand



Dial Test Indicators

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

SPECIFICATIONS

Metric			Graduation	Dial reading	Range	Accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (slightly magnetic)	Ruby contact point (nonmagnetic)
Basic set	Plus set	Full set				Measuring range	One rev.	10 scale divisions	Hysteresis	Repetability									
513-424-10E	513-424-10A	513-424-10T	0.01 mm	0-25-0	0.5 mm	6 µm	-	10 µm	5 µm	3 µm	45 g	0.3 N or less							
513-478-10E	-	-									41 g	0.2 N or less							
513-466-10E	-	-										0.4 N or less							
513-414-10E	513-414-10A	513-414-10T									45 g	0.3 N or less							
513-426-10E	513-426-10A	-									41 g	0.2 N or less							
513-404-10E	513-404-10A	513-404-10T										0.4 N or less							
513-474-10E	-	-										0.3 N or less							
513-464-10E	-	-										0.2 N or less							
513-415-10E	513-415-10A	513-415-10T										0.3 N or less							
513-477-10E	-	-										0.4 N or less							
513-405-10E	513-405-10A	513-405-10T	0.002 mm	0-100-0	0.2 mm	4 µm	-	10 µm	5 µm	3 µm	45 g	0.3 N or less							
513-475-10E	-	-									41 g	0.2 N or less							
513-465-10H	-	-										0.4 N or less							
513-425-10E	513-425-10A	-										0.3 N or less							
513-401-10E	-	-	0.001 mm	0-70-0	0.14 mm	4 µm	-	10 µm	5 µm	3 µm	45 g	0.3 N or less							
513-471-10E	-	-										0.4 N or less							

Inch			Graduation	Dial reading	Range	Accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (slightly magnetic)	Ruby contact point (nonmagnetic)
Basic set	Plus set	Full set				Measuring range	One rev.	Hysteresis	Repetability										
513-402-10E	-	513-402-10T	0.0005 in	0-15-0	0.03 in	±0.0005 in	0.0002 in	±0.0002 in	±0.0002 in	45 g	0.3 N or less								
513-472-10E	-	-									0.2 N or less								
513-412-10E	-	513-412-10T										0.4 N or less							
513-479-10E	-	-									41 g	0.3 N or less							
513-462-10E	-	-										0.2 N or less							
513-407-10E	-	513-407-10T	0.0001 in	0-4-0	0.008 in	±0.0001 in	0.0001 in	±0.0004 in	±0.0004 in	45 g	0.3 N or less								
513-403-10E	-	513-403-10T										0.4 N or less							
513-473-10E	-	-									41 g	0.3 N or less							
513-463-10E	-	-										0.4 N or less							

Metric/Inch			Graduation	Dial reading	Range	Accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (slightly magnetic)	Ruby contact point (nonmagnetic)
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repetability										
513-409-10E	-	513-409-10T	0.002 mm / 0.0001 in	0-10-0 / 0-38-0	0.2 mm / 0.0076 in	4 µm	2 µm	3 µm	1 µm	45 g	0.3 N or less								

Inch/Metric			Graduation	Dial reading	Range	Accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (slightly magnetic)	Ruby contact point (nonmagnetic)
Basic set	Plus set	Full set				Measuring range	Hysteresis	Repetability											
513-406-10E	-	513-406-10T	0.0005 in / 0.01 mm	0-15-0 / 0-35-0	0.03 in / 0.7 mm	±0.0005 in	0.0002 in	±0.0002 in		45 g	0.3 N or less								

Note 1: Stem with ø8 dovetail groove is not included in the mass.

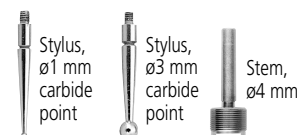
Note 2: Be sure to perform calibration with a reference gage after exchanging the contact point. The inside parts may be damaged when the contact point is exchanged due to the breakage. In the case the of the significant deterioration in the operation, repair is required.

Set Configuration: Metric and Metric/Inch

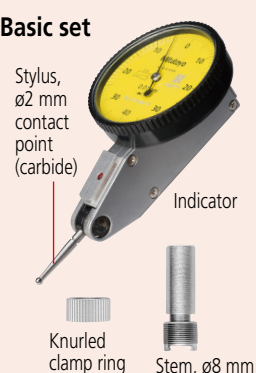
Full set



Plus set

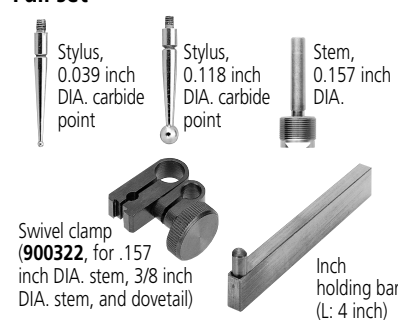


Basic set

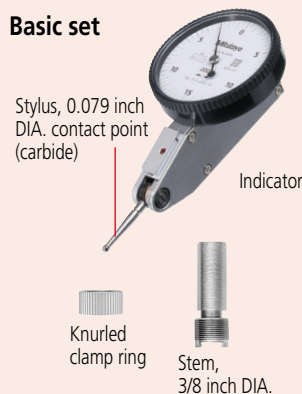


Set Configuration: Inch and Inch/Metric

Full set



Basic set

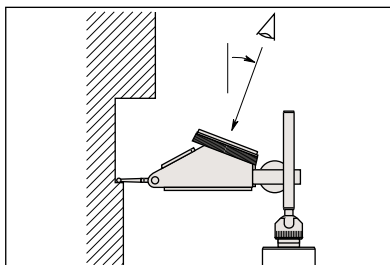


Optional Accessories

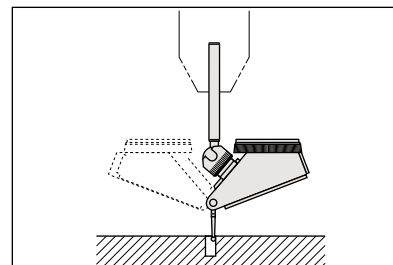
- : Swivel clamps (See page F-69)
- : Holding bars (See page F-69)
- : Stems (See page F-69)
- : Styli (See page F-69)

Dial Test Indicator SERIES 513 — Horizontal (20° Tilted Face), Vertical, and Parallel Types

- Specially designed for easy viewing of dial.



- The dial face obliquely faces upward, allowing users to read the graduations from the user's side. It is convenient when probing on the side of a large workpiece and the workbench is high.

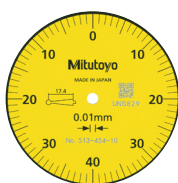


- Using the universal holder allows easy hole centering. The dial face always faces upward when the indicator is rotated, which makes reading easy.



513-454-10E/513-454-10A/
513-454-10T

Contact point No. 103006



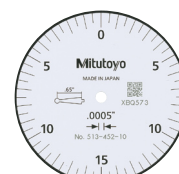
Graduation: 0.01 mm
Range: 0.8 mm

- ☒ Carbide contact point (Slightly magnetic)



513-452-10E/513-452-10T

Contact point No. 133195



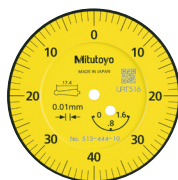
Graduation: 0.0005 in
Range: 0.03 in

- ☒ Carbide contact point (Slightly magnetic)



513-444-10E/513-444-10A/
513-444-10T

Contact point No. 103006



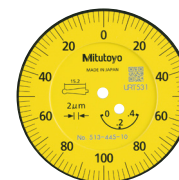
Graduation: 0.01 mm
Range: 1.6 mm

- ☒ With revolution counter
- ☒ Carbide contact point (Slightly magnetic)



513-445-10E/513-445-10A/
513-445-10T

Contact point No. 103011



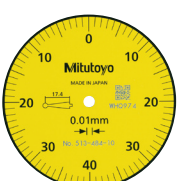
Graduation: 0.002 mm
Range: 0.4 mm

- ☒ With revolution counter
- ☒ Carbide contact point (Slightly magnetic)



513-484-10E/513-484-10A/
513-484-10T

Contact point No. 103006



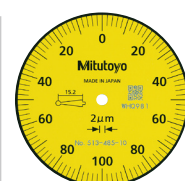
Graduation: 0.01 mm
Range: 0.8 mm

- ☒ Carbide contact point (Slightly magnetic)



513-485-10E

Contact point No. 103011



Graduation: 0.002 mm
Range: 0.2 mm

- ☒ Carbide contact point (Slightly magnetic)

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



With revolution counter



Long stylus



Carbide contact point
(Slightly magnetic)

SPECIFICATIONS

Metric			Horizontal (20° tilted face) type													
Order No.			Graduation	Range	Dial reading	Accuracy					Mass	Measuring force				Remarks
Basic set	Plus set	Full set				Measuring range	One rev.	10 scale divisions	Hysteresis	Repeatability						
513-444-10E	513-444-10A	513-444-10T	0.01 mm	1.6 mm	0-40-0	16 µm	10 µm	5 µm	5 µm	3 µm	48 g	0.3 N or less				
513-445-10E	513-445-10A	513-445-10T	0.002 mm	0.4 mm	0-100-0	6 µm	5 µm	2 µm	4 µm	1 µm						

Inch			Horizontal (20° tilted face) type													
Order No.			Graduation	Range	Dial reading	Accuracy				Mass	Measuring force				Remarks	
Basic set	Plus set	Full set				One rev.	First 2.5 rev.	Hysteresis	Repeatability							
—	513-442-10A	513-442-10T	0.0005 in	0.06 in	0-15-0	±0.0005 in	±0.0005 in	0.0002 in	±0.0002 in	48 g	0.3 N or less	✓		✓		
—	513-442-16A	513-442-16T									0.3 N or less	✓		✓		Black dia
—	513-446-10A	513-446-10T									0.2 N or less	✓		✓		
—	513-446-16A	513-446-16T	0.2 N or less	✓	✓	✓		Black dia								
—	513-443-10A	513-443-10T	0.0001 in	0.016 in	0-4-0	±0.0002 in	±0.0002 in	0.0001 in	±0.00004 in		0.3 N or less	✓		✓		
—	513-443-16A	513-443-16T									0.3 N or less	✓		✓		Black dia

Metric	Vertical type																	
Order No.			Graduation	Range	Dial reading	Accuracy					Mass	Measuring force				Remark		
Basic set	Plus set	Full set				Measuring range	One rev.	10 scale divisions	Hysteresis	Repeatability								
513-456-10E	513-454-10A	—	0.01 mm	0.5 mm	0.25-0	6 μm	—	5 μm	4 μm	3 μm	46 g	0.3 N or less						
513-454-10E	513-454-10A	513-454-10T		0.8 mm	0-40-0	9 μm											✓	
513-455-10E	513-455-10A	513-455-10T	0.002 mm	0.2 mm	0-100-0	4 μm	—	2 μm	3 μm	1 μm							✓	

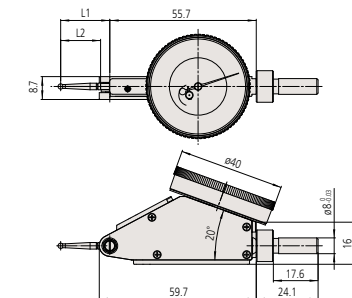
Inch			Vertical type												
Order No.			Graduation	Range	Dial reading	Accuracy				Mass	Measuring force				Remark
Basic set	Plus set	Full set				One rev.	First 2.5 rev.	Hysteresis	Repeatability						
513-452-10E	—	513-452-10T	0.0005 in	0.03 in	0-15-0	±0.0005 in	—	0.0002 in	±0.0002 in	46 g	0.3 N or less 0.3 N or less				✓
513-453-10E	—	513-453-10T	0.0001 in	0.008 in	0-4-0	±0.0001 in	—	0.0001 in	±0.00004 in						

Metric	Parallel Type																	
Order No.			Graduation	Range	Dial reading	Accuracy					Mass	Measuring force				Remark		
Basic set	Plus set	Full set				Measuring range	One rev.	10 scale divisions	Hysteresis	Repeatability								
513-486-10E	—	—	0.01 mm	0.5 mm	0.25-0	6 µm	—	5 µm	4 µm	3 µm	53 g	0.3 N or less						
513-484-10E	513-484-10A	513-484-10T		0.8 mm	0.40-0	9 µm	—	—	—	—							✓	
513-485-10E	—	—	0.002 mm	0.2 mm	0.100-0	4 µm	—	2 µm	3 µm	1 µm							✓	

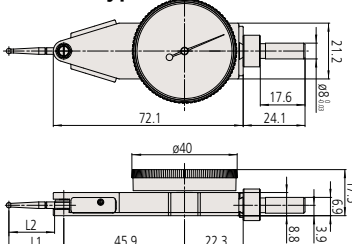
Inch			Parallel Type													
Order No.			Graduation	Range	Dial reading	Accuracy				Mass	Measuring force				Remarks	
Basic set	Plus set	Full set				One rev.	First 2.5 rev.	Hysteresis	Repeatability							
—	513-482-10A	513-482-10T	0.0005 in	0.03 in	0-15-0	±0.0005 in	—	0.0002 in	±0.0002 in	53 g	0.3 N or less				✓	

DIMENSIONS

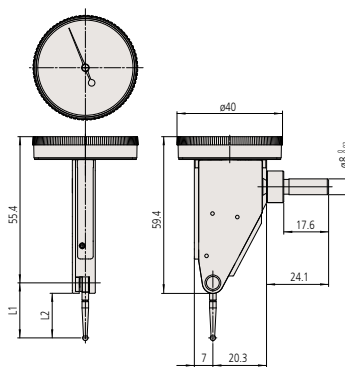
Horizontal (20° Tilted Face) Type



Parallel Type



Vertical Type



Order No.	L1	L2
513-445-10E	18.7	15.2
513-444-10E	20.9	17.4

Order No.	L1	L2
513-484-10E	20.9	17.4
513-485-10E	18.7	15.2
513-486-10E	22.2	18.7

Order No.	L1	L2
513-454-10E	20.9	17.4
513-455-10E	18.7	15.2
513-456-10E	22.2	18.7

unit: mm

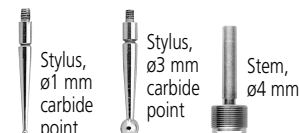
Note: A slight difference may occur depending on the center of the contact point, graduation plate, and stem fixing position, etc.

Set Configuration: Metric

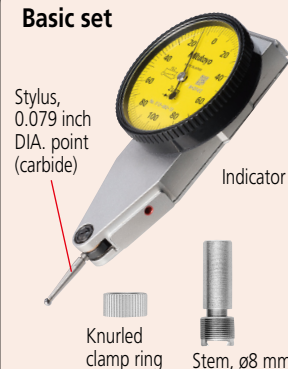
Full set



Plus set



Basic set

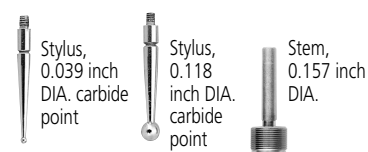


Set Configuration: Inch

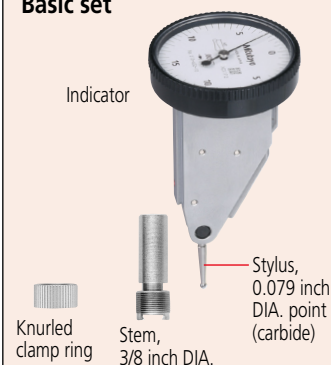
Full set



Plus set

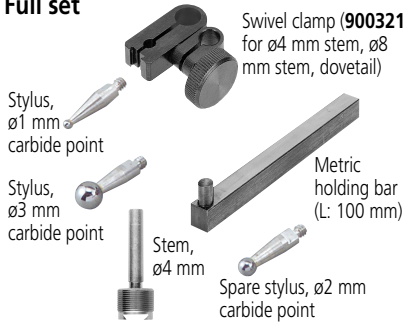


Basic set

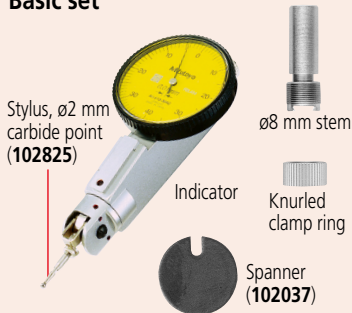


Set Configuration: Metric

Full set

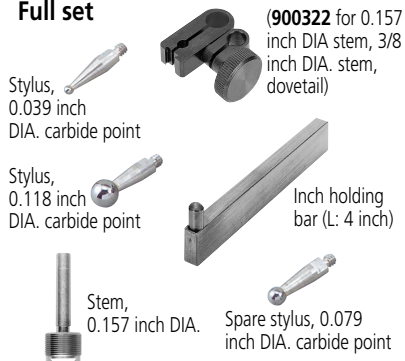


Basic set

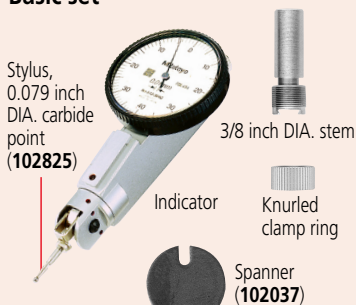


Set Configuration: Inch

Full set



Basic set

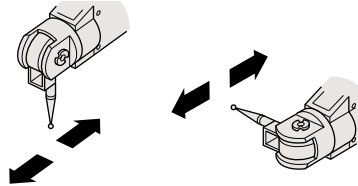


Optional Accessories

- : Swivel clamps (See page F-69)
- : Holding bars (See page F-69)
- : Stems (See page F-69)
- 102824:** Stylus, ø1 mm ball contact (carbide)
- 102825:** Stylus, ø2 mm ball contact (carbide)
- 102826:** Stylus, ø3 mm ball contact (carbide)

Dial Test Indicator SERIES 513 — Universal Type

- Universal application to all directions. Not only the direction of the measuring point, but also the direction of measurement itself can be adjusted 360 degrees without moving the indicator.



513-304GE

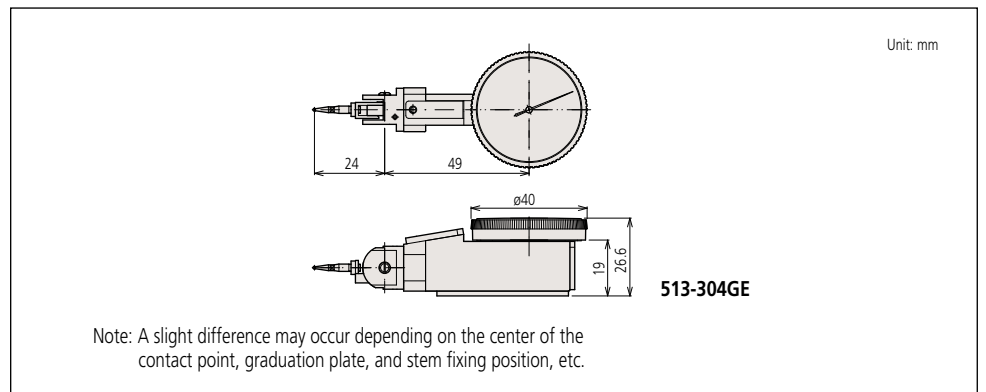
SPECIFICATIONS

Metric		Graduation	Range	Accuracy	Dial reading	Measuring force		—	—	—	—	—
Order No.	Order No.	Graduation	Range	Accuracy	Dial reading	Measuring force		—	—	—	—	—
Basic set	Full set											
513-304GE	513-304GT	0.01 mm	0.8 mm	8 µm	0-40-0	0.3 N or less	✓	—	—	—	—	—

Inch		Graduation	Range	Accuracy	Dial reading	Measuring force		—	—	—	—	—
Order No.	Order No.	Graduation	Range	Accuracy	Dial reading	Measuring force		—	—	—	—	—
Basic set	Full set											
513-302G	513-302GT	0.0005 in	0.03 in	±0.0005 in	0-15-0	0.3 N or less	✓	—	—	—	—	—

 Carbide contact point (Slightly magnetic)

DIMENSIONS

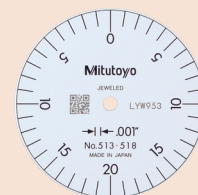


Dial Test Indicators

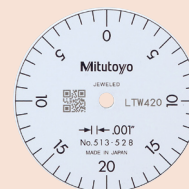
Comparison measuring instruments which ensure high quality, high accuracy and reliability.

Pocket Type Dial Test Indicator SERIES 513

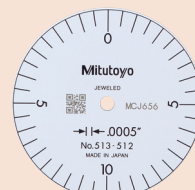
- Jeweled bearings assure higher sensitivity and accuracy.
Indicator can be mounted by clamping the stem or the body (except for 513-517WE and 513-517WT).
- Reversible measuring direction (Clutch type).
- Two holding bars are supplied. (Full sets only.)
- Fully adjustable bezel/dial face.
- Stylus is adjustable within 220°.
- Bezel is sealed with an O-ring to keep out water and oil.



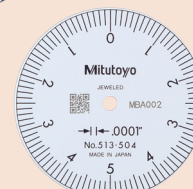
513-518



513-528



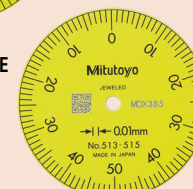
513-512



513-504



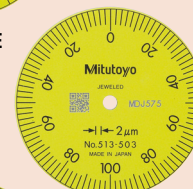
513-517E
513-517WE



513-515T



513-514E



513-503E



513-501E

Optional Accessories

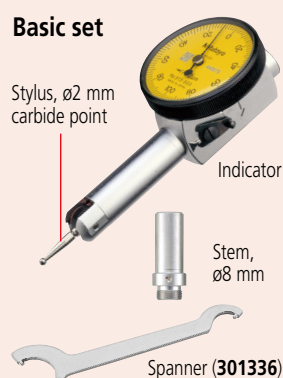
- : Swivel clamps (See page F-69)
- : Holding bars (See page F-69)
- : Stems (See page F-69)
- : Stylus (See page F-69)

Set Configuration: Metric

Full set

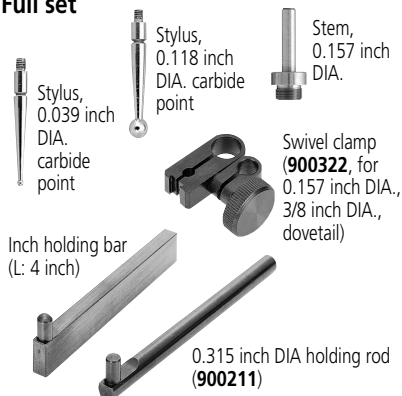


Basic set

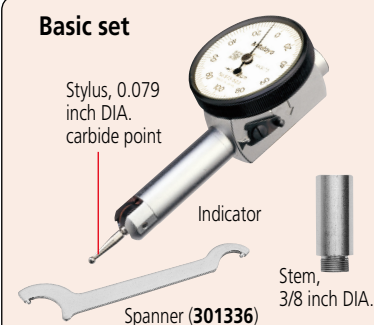


Set Configuration: Inch

Full set



Basic set



Long stylus



Jeweled bearing



Dustproof



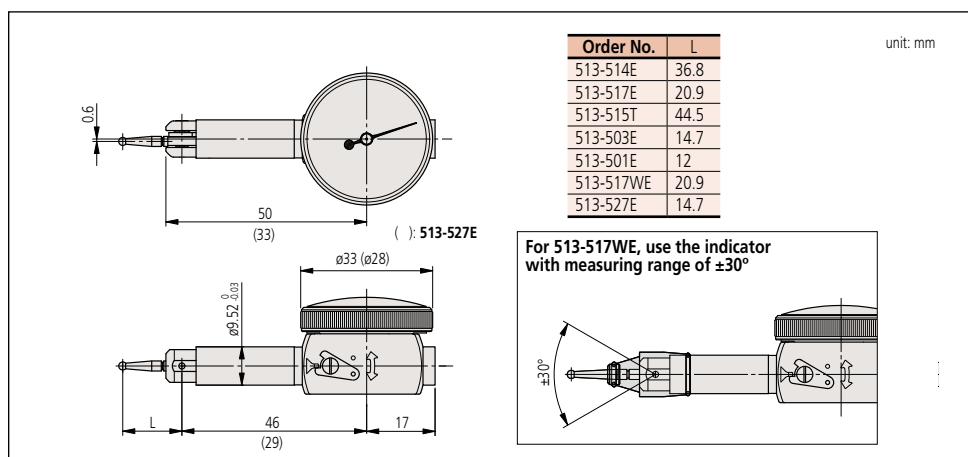
Compact

SPECIFICATIONS

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

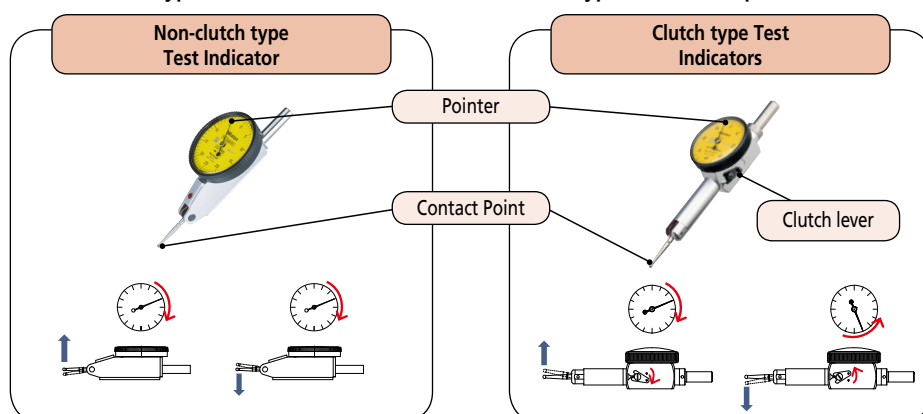
Inch		Graduation	Range	Accuracy	Dial reading	Measuring force					—	—
Order No.	Order No.											
Basic set	Full set											
513-518	513-518T	0.001 in	0.04 in	±0.001 in	0-20-0	0.3 N or less	—	✓	—	—	—	—
513-528	513-528T	0.001 in	0.04 in	±0.001 in	0-20-0	0.3 N or less	—	✓	✓	—	—	—
513-512	513-512T	0.0005 in	0.02 in	±0.0005 in	0-10-0	0.3 N or less	✓	✓	—	—	—	—
513-504	513-504T	0.0001 in	0.01 in	±0.0002 in	0-5-0	0.3 N or less	—	✓	—	—	—	—

DIMENSIONS



There are two types of Mitutoyo Dial Test Indicator:

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

Dial Test Indicators

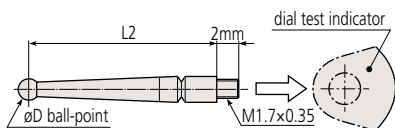
Comparison measuring instruments which ensure high quality, high accuracy and reliability.

Styli, Stems and Holders Optional Accessories for Dial Test Indicators

Styli (for Metric Models Only*)

* Except for universal type dial test indicator (513-304GE).

- Stylus length affects the scale factor of an indicator. The styli provided as standard give a scale factor of unity.



ø0.5 mm ball-point



190547 (L2=11.2 mm)
21CAB109 (L2=15.2 mm)
190549 (L2=17.4 mm)
190654 (L2=18.7 mm)
21CAB111 (L2=33.9 mm)
190656 (L2=41.0 mm)

ø0.7 mm ball-point



190548 (L2=11.2 mm)
21CAB110 (L2=15.2 mm)
190550 (L2=17.4 mm)
190653 (L2=18.7 mm)
21CAB112 (L2=33.9 mm)
190655 (L2=41.0 mm)

ø1 mm ball-point (Carbide)



103017 (L2=11.2 mm)
131314 (L2=15.2 mm)
103013 (L2=17.4 mm)
137558 (L2=18.7 mm)
131316 (L2=33.9 mm)
136235 (L2=41.0 mm)

ø2 mm ball-point (Carbide)



103010 (L2=11.2 mm)
103011 (L2=15.2 mm)
103006 (L2=17.4 mm)
137557 (L2=18.7 mm)
131324 (L2=33.9 mm)
136013 (L2=41.0 mm)

ø2 mm ball-point (Ruby)



21CZA209 (L2=11.2 mm)
21CZB068 (L2=15.2 mm)
21CZA201 (L2=17.4 mm)
21CZA210 (L2=18.7 mm)
21CZA211 (L2=41.0 mm)

ø3 mm ball-point (Carbide)



103018 (L2=11.2 mm)
131315 (L2=15.2 mm)
103014 (L2=17.4 mm)
137559 (L2=18.7 mm)
131317 (L2=33.9 mm)
136236 (L2=41.0 mm)

Spanner



102037

Stems with Knurled Clamp Ring

ø4 mm (0.157 inch DIA.)



21CZB131

ø8 mm



21CZB129

3/8 inch DIA.



21CZB130

Swivel Clamps

- Can be used with Holding Bars.

For ø6 mm stem, ø8 mm stem, and dovetail



902053

For ø4 mm stem, ø8 mm stem, and dovetail



900321

For 0.157 inch DIA. stem, 3/8 inch DIA. stem, and dovetail



900322

Holding Bars



9 x 9 mm

953638 (Length: 50 mm)
900209 (Length: 100 mm)



ø8mm (0.315 inch DIA) 900211 (Length: 115 mm/ 4.528 inch)



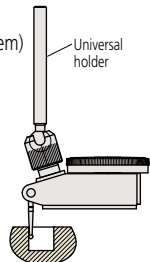
0.25 inch x 0.5 inch 953639 (Length: 2 inch)
900306 (Length: 4 inch)

Universal Holder

- Allows the indicator to be set at the desired attitude to the workpiece.



21CZA233 (ø8 mm stem)
21CZA231 (0.25 inch DIA. stem)
21CZA229 (ø6 mm stem)

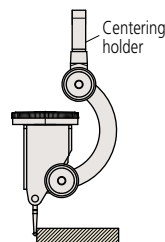


Centering Holder

- Allows large diameter cylinders or holes to be centered on a machine tool.



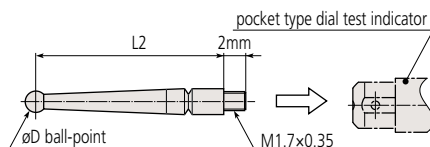
901959 (ø8 mm stem)
901997 (0.25 inch DIA. stem)



Styli, Stems and Holders Optional Accessories for Pocket Type Dial Test Indicators

Styli (for Metric Models Only)

- Stylus length affects the scale factor of an indicator. The styli provided as standard give a scale factor of unity.



Ø0.5 mm ball-point



190547 (L2=11.2 mm)
190549 (L2=17.4 mm)
190656 (L2=41.0 mm)

Ø0.7 mm ball-point



190548 (L2=11.2 mm)
190550 (L2=17.4 mm)
190655 (L2=41.0 mm)

Ø1mm ball-point (Carbide)



136756 (L2=8.6 mm)
103017 (L2=11.2 mm)
103013 (L2=17.4 mm)
137746 (L2=33.3 mm)
136235 (L2=41.0 mm)

Ø2mm ball-point (Carbide)



136104 (L2=8.6 mm)
103010 (L2=11.2 mm)
103006 (L2=17.4 mm)
129949 (L2=33.3 mm)
136013 (L2=41.0 mm)

Ø2mm ball-point (Ruby)



21CZA209 (L2=11.2 mm)
21CZA201 (L2=17.4 mm)
21CZA211 (L2=41.0 mm)

Ø3mm ball-point (Carbide)



136758 (L2=8.6 mm)
103018 (L2=11.2 mm)
103014 (L2=17.4 mm)
137747 (L2=33.3 mm)
136236 (L2=41.0 mm)

Stems

Ø4 mm (0.157 inch DIA.)



102036

Ø8 mm



102822

3/8 inch DIA.



102081

Swivel Clamps

- Can be used with Holding Bars.

For Ø6 mm stem, Ø8 mm stem, and dovetail



902053

For Ø4 mm stem and Ø8 mm stem, and dovetail



900321

For 0.157 inch DIA. stem and 3/8 inch DIA. stem, and dovetail



900322

Holding Bars



9 x 9 mm

900209 (Length: 100 mm)



Ø8mm (0.315 inch DIA) 900211 (Length: 115 mm)



0.25 x 0.5 inch

953639 (Length: 2 inch)
900306 (Length: 4 inch)

Spanner



301336

Universal Holder

- Allows the indicator to be set at the desired attitude to the workpiece.



21CZA234 (Ø8 mm stem)
21CZA232 (0.25 inch DIA. stem)
21CZA230 (Ø6 mm stem)

