Mitutoyo

Mitutoyo Quality

SMALL TOOL INSTRUMENTS
AND DATA MANAGEMENT

Lever Type Dial Indicators

Dial Test Indicators

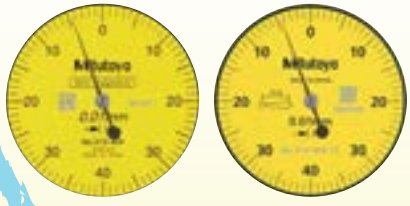
Drastically Enhanced Durability, Sensitivity and Visibility

Lever Type Dial Indicator
Dial Test Indicator

NEW Products

Improvement in visibility

- Using universal fonts, changing dial face color and reviewing the relationship between pointer and scale marks have drastically improved visibility.

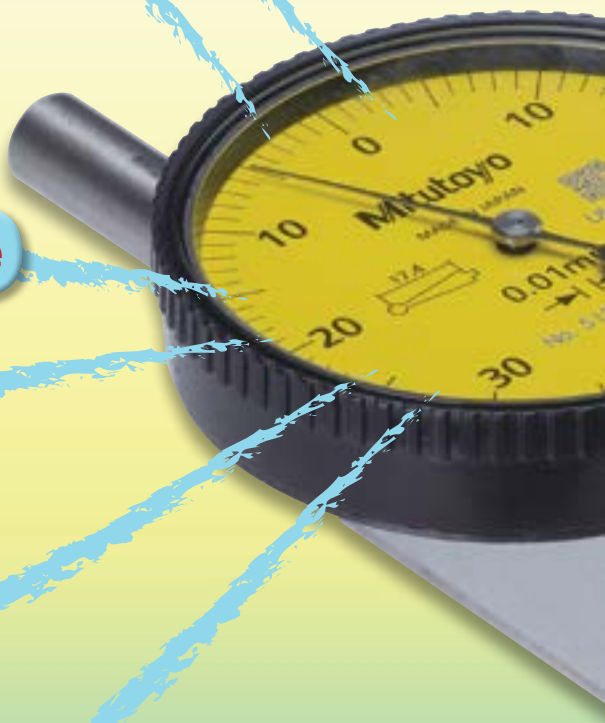


Conventional New

Crystal for readability

- Glare-free flat crystal face allows easy reading of graduations.

Conventional New



Preventing dust and oil from penetrating to the dial face

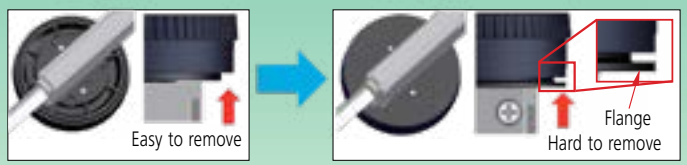
- The O-ring seal on the bezel has the effect of providing smooth rotation and prevents dust and oil from penetrating through to the dial face.

Bonded bezel and crystal

- Bonding the bezel and crystal together leaves no gap for cutting fluid or oil to penetrate through to the dial face.

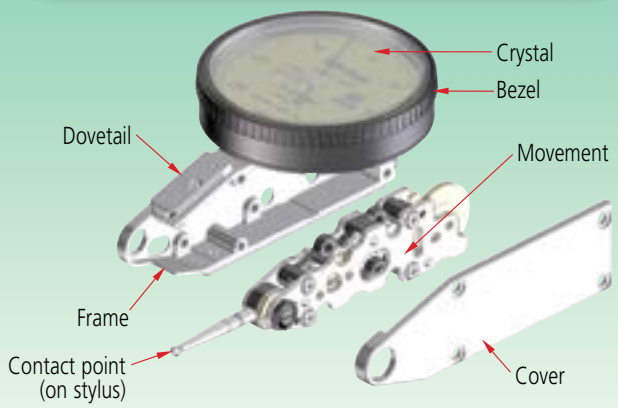
Preventing bezel detachment

- A flange prevents the bezel from unintentional removal due to applying a force to the bezel during handling.



Conventional New

Naming of parts

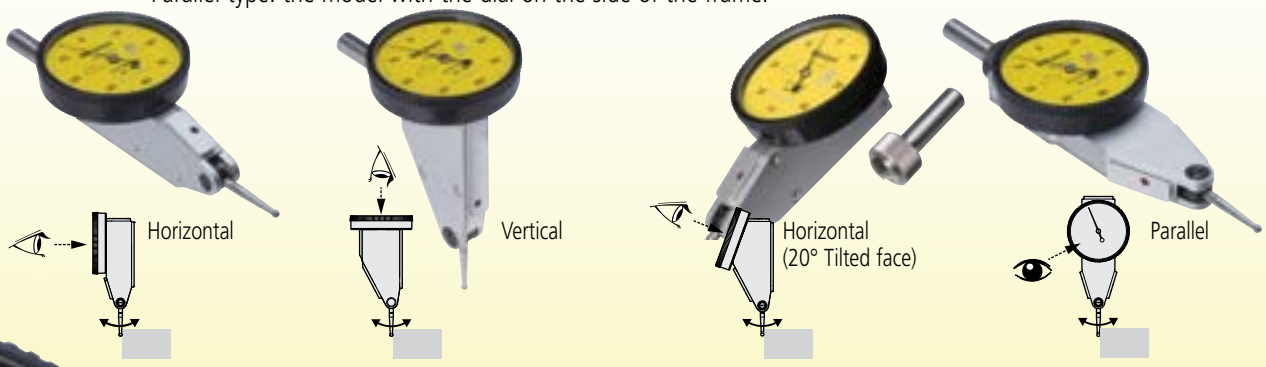


Features 1

A choice of dial position

Our product lineup offers four models, each with a different orientation of of the dial on the frame to allow best visibility of the dial face in any specific situation.

- Horizontal type: the standard model - the dial is on top of the frame.
- Vertical type: the model with the dial on the end of the frame.
- Horizontal (20° tilted face) type: the model with the dial on top of the frame but tilted backward at 20°.
- Parallel type: the model with the dial on the side of the frame.



Multi-layer coatings on the crystal

- Hard, antifouling and non-glare coatings on the crystal inhibit scratches, contamination and glare on the surface.

Improved stylus bearing

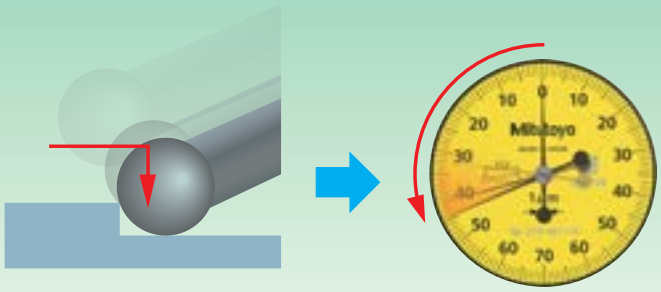
- The conventional method of mounting the stylus pivot bearing screw in the frame is prone to allowing looseness to develop with prolonged use. A unique sub-plate structure to house this screw has now been incorporated in all models and eliminates this issue.

Stylus bearing screw held in frame.

Stylus bearing screw held in sub-plate.

Maintaining trackability

- The ability of the indicator to track small changes in displacement deteriorates due to minute changes in clearance between the gears with prolonged use. Redesigned mounting for the gears enables the new models to maintain good trackability.



Indicator trackability depends on maintaining gear-train stability

Drastically Enhanced Durability, Sensitivity and Visibility

Lever Type Dial Indicator
Dial Test Indicator

NEW Products

Inspection

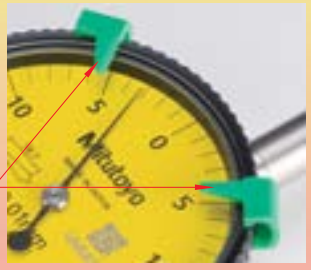
- The inspection certificate publication system linked to the QR code marked on the dial face allows attachment of an "Inspection Certificate" provided with shipping inspection data. Since the customer's purchase date will not be identified from the QR code, it cannot be used to obtain a "Calibration Certificate".

Stylus length is marked on the dial face

- As the length of the stylus fitted affects the indicator's scale factor the length that gives a scale factor of unity is marked on the dial face to assist a customer when ordering the correct replacement stylus.

Attachable limit hands

- Limit hands (optional) can be attached to the bezel the same as for dial indicators, allowing easy identification of the upper and lower limits of tolerance.



ø8/ø9.52 stem to fit dovetails is a standard accessory

- A ø8mm (ø0.315 in) plain stem (**21CAB104**) for the Metric models or a ø9.52mm (ø3/8 in) plain stem (**21CAB105**) for the Inch models that attaches to any dovetail on the frame is supplied as a standard accessory. Other sizes of stem to fit the dovetails are available as optional accessories:

ø4mm (ø0.157 in) stem: **21CAB106**
ø6mm (ø0.236 in) stem: **21CAB103**

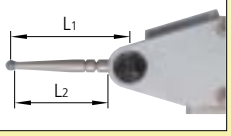
Features 2

certificate attached

Extended stylus length for 0.001mm, 0.002mm, and 0.0001 in graduation models

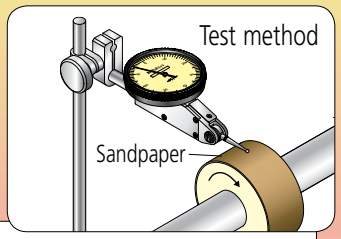
- Longer styli have been introduced on the most sensitive indicators to make probing those features of a workpiece that are difficult to access more user-friendly.

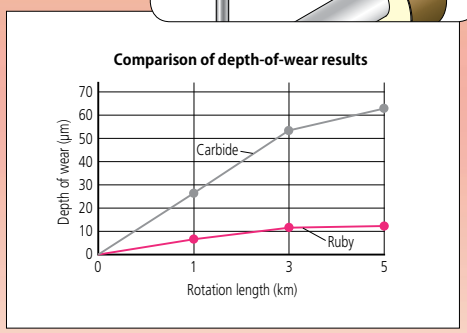
0.001mm graduation models: L_2 now 15.2mm, was 11.2mm
0.002mm graduation models: L_2 now 11.2mm, was 9.4mm
0.0001 in graduation models: L_2 now 0.61 in, was 0.45 in

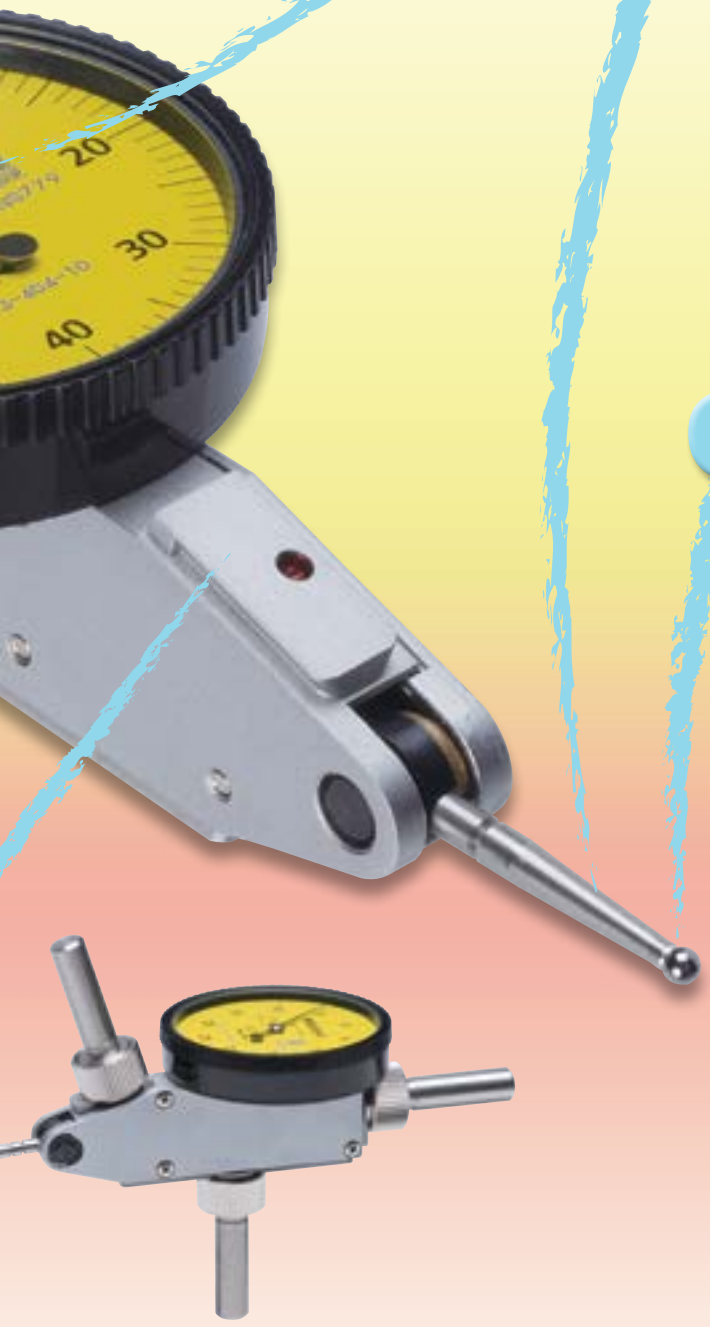


Ruby ball-tipped stylus added to lineup

- A ruby tip has resistance to wear several times greater than a carbide tip and, since it is nonconductive, it can be used with safety even on an electrical discharge machine.







Horizontal (Standard model)

Metric Provides wide variations of models conforms to the required accuracy, range, and surface of workpieces.

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

Contact point No. 137557

Graduation: 0.01mm
Range: 0.5mm

- Standard
- Double scale spacing
- Carbide contact point (Anti-magnet)

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

Contact point No. 131324

Graduation: 0.01mm
Range: 0.5mm

- Long stylus
- Carbide contact point (Anti-magnet)
- Double scale spacing

513-478-10E

Contact point No. 21CZA210

Graduation: 0.01mm
Range: 0.5mm

- Ruby contact point (non-magnet)
- Standard
- Double scale spacing

513-474-10E

Contact point No. 21CZA201

Graduation: 0.01mm
Range: 0.8mm

- Ruby contact point (non-magnet)
- Standard

513-466-10E

Contact point No. 137557

Graduation: 0.01mm
Range: 0.5mm

- Small face diameter
- Double scale spacing
- Compact
- Carbide contact point (Anti-magnet)

513-464-10E

Contact point No. 103006

Graduation: 0.01mm
Range: 0.8mm

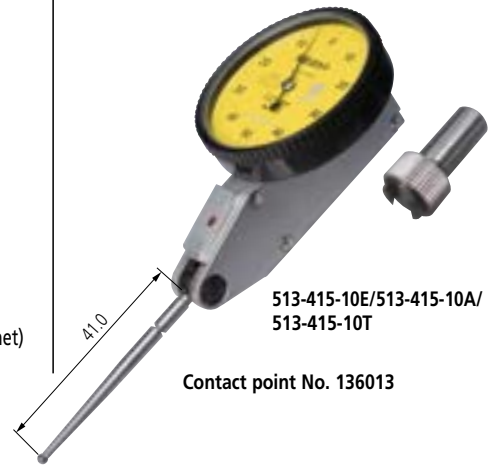
- Small face diameter
- Compact
- Carbide contact point (Anti-magnet)

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

Contact point No. 103006

Graduation: 0.01mm
Range: 0.8mm

- Standard
- Carbide contact point (Anti-magnet)



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

Contact point No. 136013

Graduation: 0.01mm
Range: 1.0mm

- Long stylus
- Carbide contact point (Anti-magnet)

513-477-10E

Contact point No. 21CZA211

Graduation: 0.01mm
Range: 1.0mm

- Ruby contact point (non-magnet)
- Long stylus

513-475-10E

Contact point No. 21CZB068

Graduation: 0.002mm
Range: 0.2mm

- Ruby contact point (non-magnet)
- Standard

513-426-10E/513-426-10A

Contact point No. 137557

Graduation: 0.01mm
Range: 1.5mm

- With revolution counter
- Double scale spacing
- Carbide contact point (Anti-magnet)

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

Contact point No. 103011

Graduation: 0.002mm
Range: 0.6mm

- With revolution counter
- Carbide contact point (Anti-magnet)

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

Contact point No. 103011

Graduation: 0.002mm
Range: 0.2mm

- Standard
- Carbide contact point (Anti-magnet)

513-465-10E

Contact point No. 103011

Graduation: 0.002mm
Range: 0.2mm

- Small face diameter
- Compact
- Carbide contact point (Anti-magnet)

513-471-10E

Contact point No. 21CZA209

Graduation: 0.001mm
Range: 0.14mm

- Ruby contact point (non-magnet)
- High accuracy

513-401-10E

Contact point No. 103010

Graduation: 0.001mm
Range: 0.14mm

- High accuracy
- Carbide contact point (Anti-magnet)

Horizontal (Standard model)

Inch

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

Contact point No. 133195

Graduation: 0.0005 in
Range: 0.03 in

- Standard
- Carbide contact point (Anti-magnet)

513-462-10E

Contact point No. 133195

Graduation: 0.0005 in
Range: 0.03 in

- Compact
- Carbide contact point (Anti-magnet)

513-472-10E

Contact point No. 21CZA204

Graduation: 0.0005 in
Range: 0.03 in

- Standard
- Ruby contact point (non-magnet)

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

Contact point No. 21CZB064

Graduation: 0.0001 in
Range: 0.008 in

- Standard
- Anti-magnet (non-magnet)

513-412-10E/513-412-10T

Contact point No. 136290

Graduation: 0.0005 in
Range: 0.03 in

- Long stylus
- Carbide contact point (Anti-magnet)

513-473-10E

Contact point No. 21CZB112

Graduation: 0.0001 in
Range: 0.008 in

- Standard
- Ruby contact point (non-magnet)

513-479-10E

Contact point No. 21CZA214

Graduation: 0.0005 in
Range: 0.03 in

- Long stylus
- Ruby contact point (non-magnet)

513-463-10E

Contact point No. 21CZB064

Graduation: 0.0001 in
Range: 0.008 in

- Compact
- Carbide contact point (Anti-magnet)

Metric/inch

513-409-10E/513-409-10T

Contact point No. 103011

Graduation: 0.002mm/0.0001 in
Range: 0.2mm/0.0076 in

Carbide contact point (Anti-magnet)

Inch/Metric

513-406-10E/513-406-10T

Contact point No. 133195

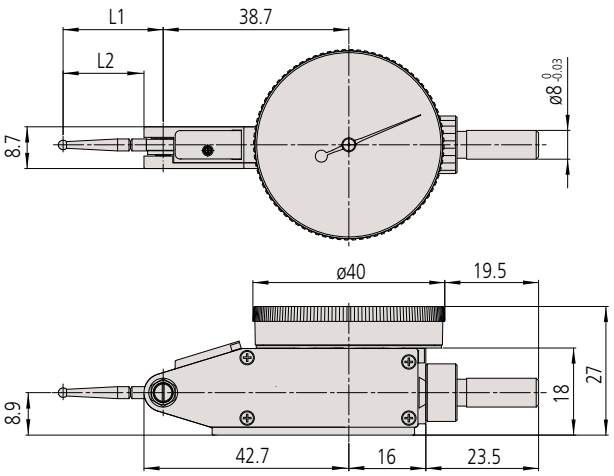
Graduation: 0.0005 in/0.01mm
Range: 0.03 in/0.7mm

Carbide contact point (Anti-magnet)

DIMENSIONS

Vertical

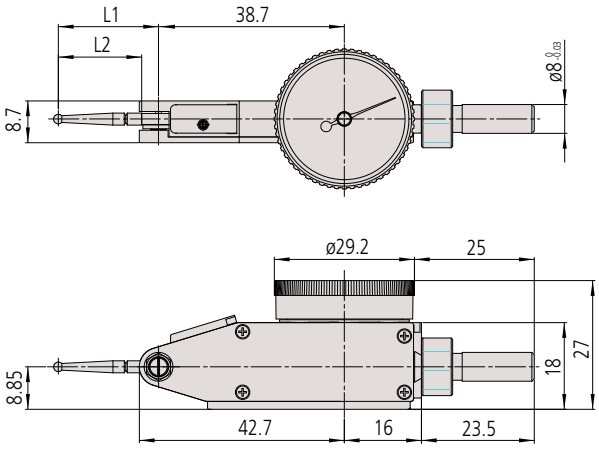
Unit: mm



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

Compact

Unit: mm



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

Horizontal (Standard model)

SPECIFICATIONS

Metric

Order No.			Graduation	Range	Dial reading	Indication accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repetability										
513-424-10E	**513-424-10A**	**513-424-10T**	0.01 mm	0.5 mm	0-25-0	6 µm	5 µm	4 µm	3 µm	45g	0.3N or less				✓	✓		✓	
513-478-10E	–	–													✓	✓			✓
513-466-10E	–	–				6 µm		4 µm		41g	0.3N or less					✓	✓	✓	
513-404-10E	**513-404-10A**	**513-404-10T**		0.8 mm	0-40-0	9 µm				45g					✓			✓	
513-414-10E	**513-414-10A**	**513-414-10T**		0.5 mm	0-25-0	10 µm		5 µm			0.2N or less			✓		✓		✓	
513-474-10E	–	–		0.8 mm	0-40-0	9 µm		4 µm			0.3N or less				✓				✓
513-464-10E	–	–								41g							✓	✓	
513-415-10E	**513-415-10A**	**513-415-10T**		1.0 mm	0-50-0	10 µm		5 µm		45g	0.2N or less			✓				✓	
513-477-10E	–	–												✓					✓
513-426-10E	**513-426-10A**	–		1.5 mm	0-25-0	16 µm					0.4N or less		✓			✓		✓	
513-405-10E	**513-405-10A**	**513-405-10T**	0.002 mm	0.2 mm	0-100-0	4 µm	2 µm	3 µm	1 µm		0.3N or less				✓			✓	
513-471-10E	–	–	0.001 mm	0.14 mm	0-70-0							✓							✓
513-475-10E	–	–		0.2 mm											✓				✓
513-425-10E	**513-425-10A**	–	0.002 mm	0.6 mm	0-100-0	7 µm		4 µm			0.4N or less		✓					✓	
513-465-10E	–	–		0.2 mm		4 µm		3 µm		41g	0.3N or less						✓	✓	
513-401-10E	–	–	0.001 mm	0.14 mm	0-70-0					45g		✓						✓	

Inch

Order No.			Graduation	Range	Dial reading	Indication accuracy			Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				One rev.	Hysteresis	Repetability											
513-402-10E	–	**513-402-10T**	0.0005 in	0.03 in	0-15-0	±0.0005 in	0.0002 in	0.0002 in	45g	0.3N or less				✓			✓	
513-472-10E	–	–												✓				✓
513-412-10E	–	**513-412-10T**								0.2N or less			✓				✓	
513-479-10E	–	–											✓					✓
513-462-10E	–	–							41g	0.3N or less						✓	✓	
513-403-10E	–	**513-403-10T**	0.0001 in	0.008 in	0-4-0	±0.0001 in	0.0001 in	0.00004 in	45g					✓			✓	
513-473-10E	–	–												✓				✓
513-463-10E	–	–							41g							✓	✓	

Metric/Inch

Order No.			Graduation	Range	Dial reading	Indication accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repetability										
513-409-10E	–	**513-409-10T**	0.002mm /0.0001 in	0.2mm /0.0076 in	0-10-0 /0-38-0	4µm	2µm	3µm	1µm	45g	0.3N or less							✓	✓

Inch/Metric

Order No.			Graduation	Range	Dial reading	Indication accuracy			Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	Hysteresis	Repetability											
513-406-10E	–	**513-406-10T**	0.0005 in /0.01mm	0.03 in /0.7mm	0-15-0 /0-35-0	±0.0005 in	0.0002 in	0.0002 in	45g	0.3N or less							✓	✓

* Stem with ø6 dovetail groove is not included in the mass.
* Be sure to perform calibration with reference gage, etc. 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.

Parallel (The scale can be read from the front, with the contact point pivoting in a plane parallel to that of the dial face)

Metric

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

Contact point No. 103006

Graduation: 0.01mm
Range: 0.8mm

Carbide contact point (Anti-magnet)

513-486-10E

Contact point No. 137557

Graduation: 0.01mm
Range: 0.5mm

Double scale spacing
Carbide contact point (Anti-magnet)

513-485-10E

Contact point No. 103011

Graduation: 0.002mm
Range: 0.2mm

Carbide contact point (Anti-magnet)

Inch

513-482-10A/513-482-10T

Contact point No. 133195

Graduation: 0.0005 in
Range: 0.03 in

Carbide contact point (Anti-magnet)

SPECIFICATIONS

Metric

Order No.			Graduation	Range	Dial reading	Indication accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repetability										
513-484-10E	**513-484-10A**	**513-484-10T**	0.01mm	0.8mm	0-40-0	9µm	5µm	4µm	3µm	53g	0.3N or less							✓	
513-485-10E	–	–	0.002mm	0.2mm	0-100-0	4µm	2µm	3µm	1µm									✓	
513-486-10E	–	–	0.01mm	0.5mm	0-25-0	6µm	5µm	4µm	3µm							✓		✓	

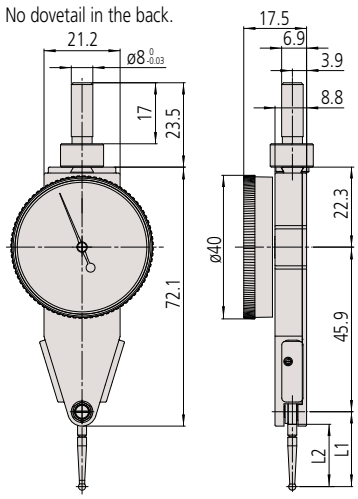
Inch

Order No.			Graduation	Range	Dial reading	Indication accuracy			Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	Hysteresis	Repetability										
–	**513-482-10A**	**513-482-10T**	0.0005 in	0.03 in	0-15-0	±0.0005 in	0.0002 in	0.0002 in	53g	0.3N or less							✓	

* Stem with ø6 dovetail groove is not included in the mass.
* Be sure to perform calibration with reference gage, etc. 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.

DIMENSIONS

* No dovetail in the back.



Unit: mm

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

Vertical (Best suited for centering holes under the spindle of a machine tool)

Metric

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

Contact point No. 103006

Graduation: 0.01mm
Range: 0.8mm

Carbide contact point (Anti-magnet)

513-455-10E/513-455-10A/
513-455-10T

Contact point No. 103011

Graduation: 0.002mm
Range: 0.2mm

Carbide contact point (Anti-magnet)

513-456-10E

Contact point No. 137557

Graduation: 0.01mm
Range: 0.5mm

Double scale spacing

Carbide contact point (Anti-magnet)

Inch

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

Contact point No. 133195

Graduation: 0.0005 in
Range: 0.03 in

Carbide contact point (Anti-magnet)

513-453-10E/513-453-10T

Contact point No. 21CZB064

Graduation: 0.0001 in
Range: 0.008 in

Carbide contact point (Anti-magnet)

SPECIFICATIONS

Metric

Order No.			Graduation	Range	Dial reading	Indication accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repetability										
513-454-10E	**513-454-10A**	**513-454-10T**	0.01mm	0.8mm	0-40-0	9µm	5µm	4µm	3µm	46g	0.3N or less							✓	
513-455-10E	**513-455-10A**	**513-455-10T**	0.002mm	0.2mm	0-100-0	4µm	2µm	3µm	1µm									✓	
513-456-10E	–	–	0.01mm	0.5mm	0-25-0	6µm	5µm	4µm	3µm							✓		✓	

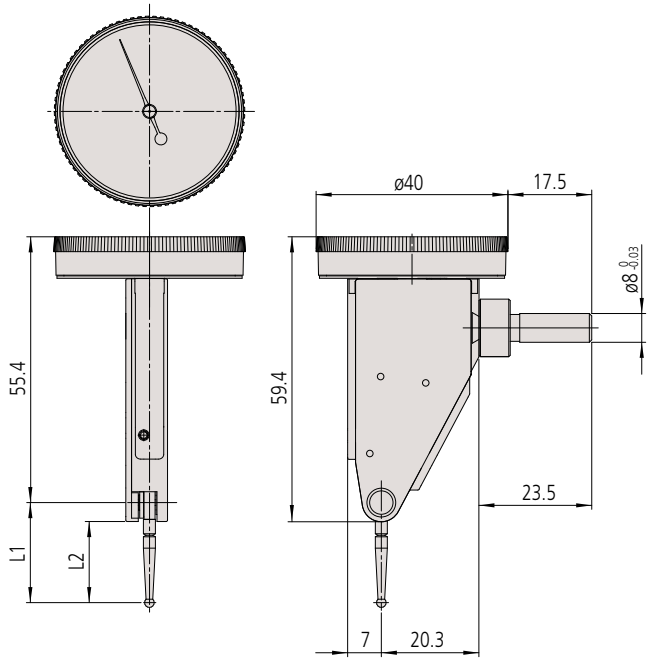
Inch

Order No.			Graduation	Range	Dial reading	Indication accuracy			Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	Hysteresis	Repetability										
513-452-10E	–	**513-452-10T**	0.0005 in	0.03 in	0-15-0	±0.0005 in	0.0002 in	0.0002 in	46g	0.3N 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									✓	

* Stem with ø6 dovetail groove is not included in the mass.
* Be sure to perform calibration with reference gage, etc. 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.

DIMENSIONS

Unit: mm



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

Horizontal (20° Tilted Face) (Dial face inclined 20°, compared with the vertical type, allows easy reading)

Metric

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

Contact point No. 103006

Graduation: 0.01mm
Range: 1.6mm

With revolution counter
Carbide contact point (Anti-magnet)

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

Contact point No. 103011

Graduation: 0.02mm
Range: 0.4mm

With revolution counter
Carbide contact point (Anti-magnet)

Inch

513-442-10A/513-442-10T

Contact point No. 133195

Graduation: 0.0005 in
Range: 0.06 in

With revolution counter
Carbide contact point (Anti-magnet)

513-442-16A/513-442-16T

Contact point No. 133195

Graduation: 0.0005 in
Range: 0.06 in

With revolution counter
Carbide contact point (Anti-magnet)

513-446-10A/513-446-10T

Contact point No. 136290

Graduation: 0.0005 in
Range: 0.06 in

With revolution counter
Long stylus
Carbide contact point (Anti-magnet)

513-446-16A/513-446-16T

Contact point No. 136290

Graduation: 0.0005 in
Range: 0.06 in

With revolution counter
Long stylus
Carbide contact point (Anti-magnet)

513-443-10A/513-443-10T

Contact point No. 21CZB064

Graduation: 0.0001 in
Range: 0.016 in

With revolution counter
Carbide contact point (Anti-magnet)

513-443-16A/513-443-16T

Contact point No. 21CZB064

Graduation: 0.0001 in
Range: 0.016 in

With revolution counter
Carbide contact point (Anti-magnet)

SPECIFICATIONS

Metric

Order No.			Graduation	Range	Dial reading	Indication accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repetability										
513-444-10E	**513-444-10A**	**513-444-10T**	0.01mm	1.6mm	0-40-0	16µm	5µm	5µm	3µm	48g	0.3N or less		✓					✓	
513-445-10E	**513-445-10A**	**513-445-10T**	0.002mm	0.4mm	0-100-0	6µm	2µm	4µm	1µm				✓					✓	

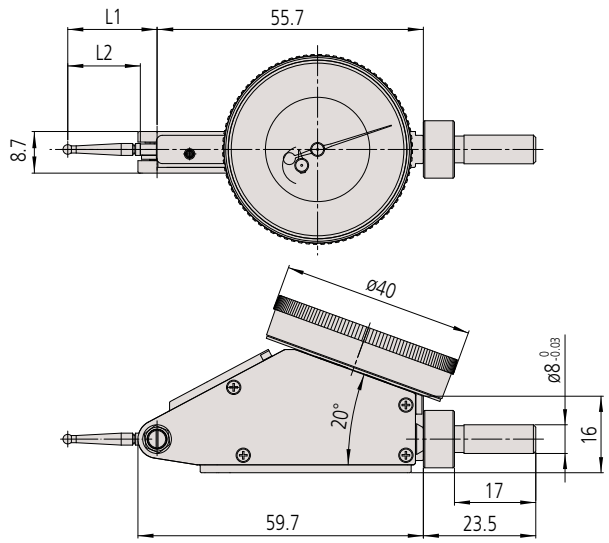
Inch

Order No.			Graduation	Range	Dial reading	Indication accuracy			Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	Hysteresis	Repetability										
–	**513-442-10A**	**513-442-10T**	0.0005 in	0.06 in	0-15-0	±0.0005 in	0.0002 in	0.0002 in	48g	0.3N or less		✓					✓	
–	**513-442-16A**	**513-442-16T**										✓					✓	
–	**513-446-10A**	**513-446-10T**								0.2N or less		✓	✓				✓	
–	**513-446-16A**	**513-446-16T**										✓	✓				✓	
–	**513-443-10A**	**513-443-10T**	0.0001 in	0.016 in	0-4-0	±0.0002 in	0.0001 in	0.00004 in		0.3N or less		✓					✓	
–	**513-443-16A**	**513-443-16T**										✓					✓	

* Stem with ø6 dovetail groove is not included in the mass.
* Be sure to perform calibration with reference gage, etc. 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.

DIMENSIONS

Unit: mm



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

Refer to Mitutoyo MEASURING INSTRUMENTS CATALOG for the accessories such as styli, stems with dovetail, holding bars, etc.

Coordinate Measuring Machines

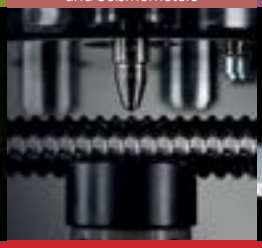
Vision Measuring Systems

Form Measurement

Optical Measuring

Sensor Systems

Test Equipment and Seismometers



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