Mitutoyo



Lever-Type Dial Indicators DIAL TEST INDICATORS





Lever Type Dial Indicator Dial Test Indicator

Inspection

A "Certificate of Inspection" is provided with Dial Test Indicators.

Easy-to-read dial

- Glare-free flat crystal face allows easy reading of graduations.
- Multi-layer and composite coatings allow a stain repellent, anti-reflective crystal.



Conventional

Improved visibility

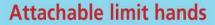
 Using universal fonts, changing dial face color and reviewing the relationship between pointer and scale marks have drastically improved visibility.



Conventional



New



 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.





Contact point length is marked on the dial face

As the length of the contact point 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 contact point.



No bezel detachment

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



Naming of parts





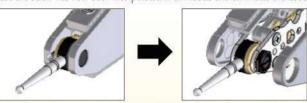
certificate attached

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Improved contact point bearing gives smoother tracking

The conventional method of mounting the contact point 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.



Contact point bearing screw held in frame.

Contact point bearing screw held in sub-plate.

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

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

0.002 mm graduation models: L1 now 18.7 mm, was 14.7 mm

L₂ now 15.2 mm, was 11.2 mm

0.001 mm graduation models: L₁ now 14.7 mm, was 12.8 mm

L₂ now 11.2 mm, was 9.3 mm

0.0001 in graduation models: L1 now 0.75 in, was 0.59 in

L₂ now 0.61 in, was 0.45 in



Ruby ball-tipped contact point 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.

A choice of dial position

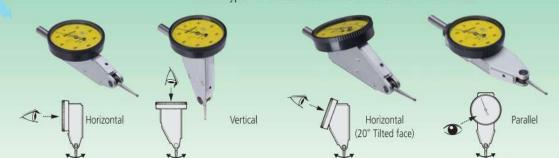
Our product lineup offers four models, each with a different orientation of the dial on the frame to allow best visibility of the dial face in any specific situation.

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.





Lever Type Dial Indicator Pocket Type Dial Test Indicator

Improved visibility

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





Conventional

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.



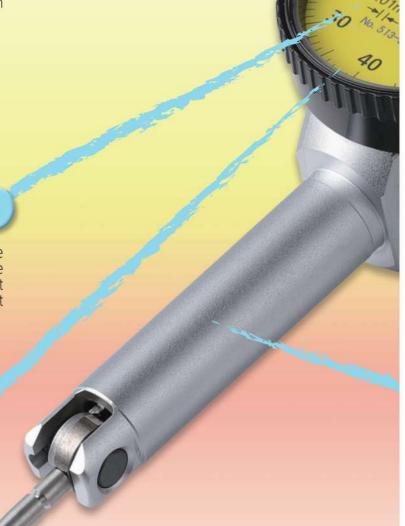
Contact point length is marked on the dial face

As the length of the contact point 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 contact point.



Integrated bezel and crystal structure

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



Inspection certificate attached

 A "Certificate of Inspection" is provided with Pocket Type Dial Test Indicators.



Easy-to-read dial

- Glare-free flat crystal face allows easy reading of graduations.
- Multi-layer and composite coatings allow a stain repellent, anti-reflective crystal.

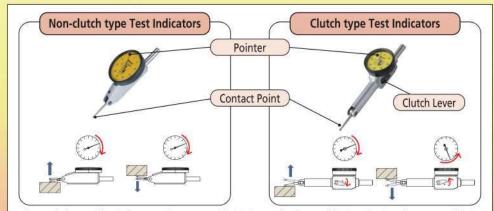


Conventional

Nev

Clutch type (with a clutch lever)

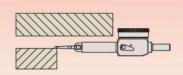
There are two types of Mitutoyo Dial Test Indicator:
 The non-clutch type (without a clutch lever) and the clutch type (with a clutch lever)



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.

Improved insertion depth

Slim body can reach a shallow and deep space to be measured.









Horizontal (Standard model)

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





Graduation: 0.01 mm Range: 0.5 mm

Standard
Double scale spacing Carbide contact point





Graduation: 0.01 mm Range: 0.5 mm

- Long contact point Double scale spacing
- Carbide contact point





Graduation: 0.01 mm Range: 0.5 mm

S Standard Double scale spacing Ruby contact point





Graduation: 0.01 mm Range: 0.8 mm

Standard Ruby contact point





Graduation: 0.01 mm Range: 0.5 mm

- Double scale spacing Compact
- Carbide contact point





Graduation: 0.01 mm Range: 0.8 mm

- Compact
- Carbide contact point





Graduation: 0.01 mm Range: 0.8 mm

- Standard
- Carbide contact point





Graduation: 0.01 mm Range: 1.0 mm

- Long contact point
- Carbide contact point

Mitutoyo







Horizontal (Standard model)

Inch





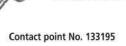






Graduation: 0.0005 in Range: 0.03 in

Compact Carbide contact point





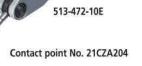






Graduation: 0.0001 in Range: 0.008 in

S Standard Carbide contact point

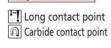














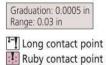


Graduation: 0.0001 in Range: 0.008 in

S Standard Ruby contact point









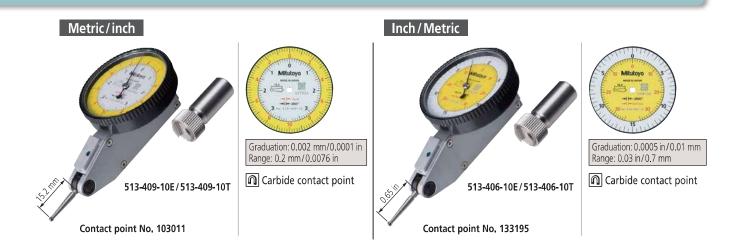


Contact point No. 21CZB064



Carbide contact point

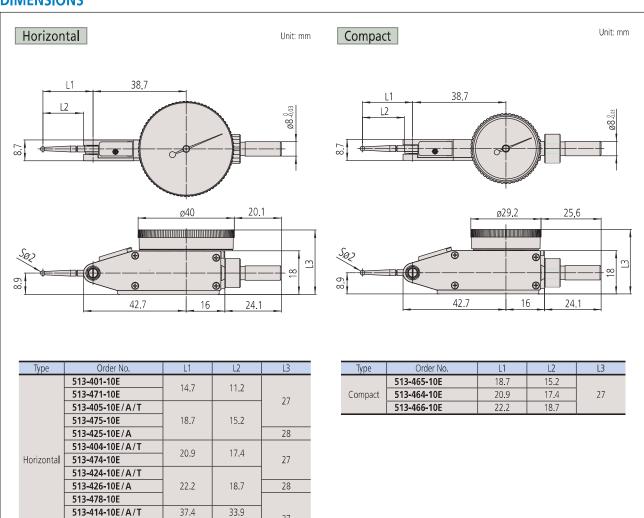




DIMENSIONS

513-415-10E/A/T

513-477-10E



27

41.0

44.5

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





Horizontal (Standard model)

SPECIFICATIONS

200	MATERIAL PROPERTY.	10000	_

	Order No.					Maxin	num pern	nissible er	ror (MPE)* (µm)				ter					1	
Basic set	Plus set	Full set	Graduation (mm)	Range (mm)	Dial reading	Measuring range	One rev.	10 scale divisions	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	Long contact point	Standard	Double scale spacing	O Compact	Carbide contact point	Ruby contact point
513-424-10E	513-424-10A	513-424-10T									45	0.3 or less				1	1		1	
513-478-10E	-	-		0.5	0-25-0	6			A		45	U.5 OF less				1	1			1
513-466-10E	-	-							4		41	0.3 or less					1	1	1	
513-404-10E	513-404-10A	513-404-10T		0.8	0-40-0	9						U.5 OF IESS				1			1	
513-414-10E	513-414-10A	513-414-10T	0.01	0.5	0-25-0	10	-	5	5	3	45	0.2 or less			1		1		1	
513-474-10E	-	21	0.01	0.8	0-40-0	9		2	4	3		0.3 or less				1				1
513-464-10E	-	-		0.0	0-40-0	9			4		41	0.5 OF 1655						1	1	
513-415-10E	513-415-10A	513-415-10T		1.0	0-50-0	10						0.2 or less			1				1	
513-477-10E	-	-		1.0	0-50-0	10			5			0.2 OF 1655			1					1
513-426-10E	513-426-10A	-		1.5	0-25-0	16	10					0.4 or less		1			1		1	
513-405-10E	513-405-10A	513-405-10T	0.002	0.2	0-100-0						45					1			1	
513-471-10E	-	+:	0.001	0.14	0-70-0	4	-		3			0.3 or less	1							1
513-475-10E	Ē	87		0.2				2		4						1				1
513-425-10E	513-425-10A	-	0.002	0.6	0-100-0	7	5	2	4	(0.00)		0.4 or less		1					1	
513-465-10E	-	=		0.2		4	20.00		3		41	0.3 or less						1	1	
513-401-10E	-		0.001	0.14	0-70-0	4	-		3		45	0.5 Of less	1						1	

Inch

	Order No.					Maximum p	ermissible erro	r (MPE)* (in)				ter					ıt	
Basic set	Plus set	Full set	Graduation (in)	Range (in)	Dial reading	One rev.	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	T Long contact point	Standard	Double scale spacing	Compact	Carbide contact point	Ruby contact point
513-402-10E	2	513-402-10T								0.3 or less				1			1	
513-472-10E	=	-:							45	0.3 01 1655				1				1
513-412-10E	2	513-412-10T	0.0005	0.03	0-15-0	±0.0005	0.0002	±0.0002	45	0.2			1				1	
513-479-10E	-	-								0.2 or less			1					1
513-462-10E	-								41							/	1	
513-403-10E	-	513-403-10T							AF	0.2 as less				1			1	
			12.0000		19779193	0.0004	0.0004	0.00004	45	0.3 or less								
513-473-10E	=	-	0.0001	0.008	0-4-0	±0.0001	0.0001	±0.00004						1				1

Metric/Inch

	Order No.					Maximur	n permissi	ole error (N	IPE)* (µm)				nter			CO.		Ħ	
Basic set	Plus set	Full set	Graduation	Range	Dial reading	Measuring range	10 scale divisions	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	Tong contact point	Standard	Double scale spacing	O Compact	Carbide contact point	Ruby contact point
513-409-10E	-	513-409-10T	0.002 mm /0.0001 in	0.2 mm /0.0076 in	0-10-0 /0-38-0	4	2	3	1	45	0.3 or less							1	

Inch/Metric

	Order No.					Maximum p	ermissible erro	r (MPE)* (in)				iter			-		ıt.	
Basic set	Plus set	Full set	Graduation	Range	Dial reading	One rev.	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	Long contact point	Standard	Double scale spacing	Compact	Carbide contact point	Ruby contact point
513-406-10E	-	513-406-10T	0.0005 in /0.01 mm	0.03 in /0.7 mm	0-15-0 /0-35-0	±0.0005	0.0002	±0.0002	45	0.3 or less							1	

^{*} We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.

Note 1: 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.

Note 2: Stem with dovetail groove is not included in the mass.





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



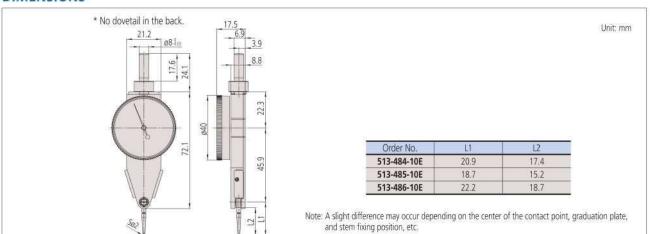
SPECIFICATIONS

	Order No.					Maximur	m permissi	ble error (N	1PE)* (µm)			5	unter	point		spacing		point	point
Basic set	Plus set	Full set	Graduation (mm)	Range (mm)	Dial reading	Measuring range	10 scale divisions	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counte	[1] Long contact p	S Standard	Double scale spi	O Compact	(in) Carbide contact	Ruby contact p
513-484-10E	513-484-10A	513-484-10T	0.01	0.8	0-40-0	9	5	4	3									1	
513-485-10E	1-		0.002	0.2	0-100-0	4	2	3	1	53	0.3 or less							1	
513-486-10E	-	-	0.01	0.5	0-25-0	6	5	4	3							1		1	

	Order No.					Maximum p	ermissible error	(MPE)* (in)			7	unter	point		spacing		point	pint
Basic set	Plus set	Full set	Graduation (in)	Range (in)	Dial reading	One rev.	Hysteresis	Repetability	Mass (g)	Measuring force (N)	H High accuracy	With revolution counte	[1] Long contact p	Standard Standard	Double scale spa	Compact	(1) Carbide contact p	Ruby contact point
	513-482-10A	513-482-10T	0.0005	0.03	0-15-0	±0.0005	0.0002	±0.0002	53	0.3 or less							1	

^{*} We guarantee the accuracy of completed products by inspecting them with the dial face vertical.

DIMENSIONS



Note 1: 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.

Note 2: Stem with dovetail groove is not included in the mass.

Note 3: 513-4XX-10 is indicated on the dial face. But the Order No. for the Special Set provided with the stem etc. has a suffix (E or T) at the end.

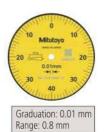




Vertical (Best suited for centering holes under the spindle of a machine tool)

Metric



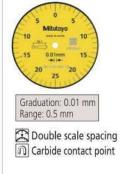


Carbide contact point



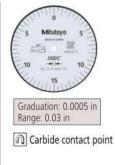




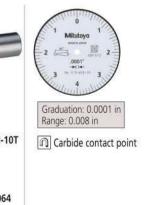


Inch











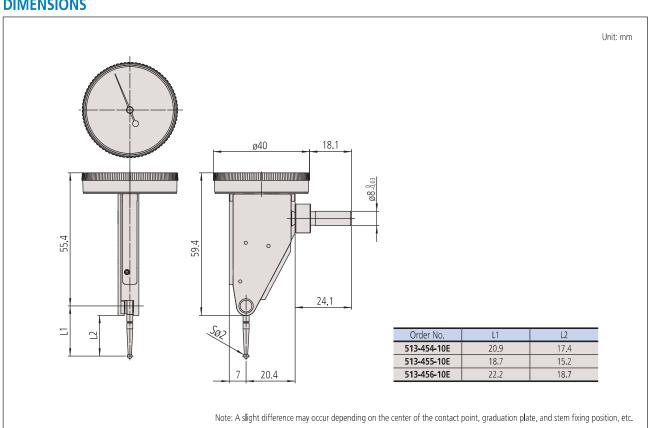
SPECIFICATIONS

Metric			ı																
	Order No.					Maximui	m permissil	ole error (N	1PE)* (µm)				nter					Ħ	
Basic set	P l us set	Full set	Graduation (mm)	Range (mm)	Dia l reading	Measuring range	10 scale divisions	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	Long contact point	Standard	Double scale spacing	Compact		Ruby contact point
513-454-10	E 513-454-10A	513-454-10T	0.01	0.8	0-40-0	9	5	4	3									1	
513-455-10	E 513-455-10A	513-455-10T	0.002	0.2	0-100-0	4	2	3	1	46	0.3 or less							1	
513-456-1)E –	-	0.01	0.5	0-25-0	6	5	4	3							1		1	

Inch																		
	Order No.					Maximum p	ermissib l e error	(MPE)* (in)				ıter					Ę	
Basic set	P l us set	Full set	Graduation (in)	Range (in)	Dia l reading	One rev.	Hysteresis	Repetability	Mass (g)	Measuring force (N)	H High accuracy	🗹 With revolution counter	Long contact point	Standard	🖫 Double scale spacing	Compact	Carbide contact point	Ruby contact point
513-452-10E	_	513-452-10T	0.0005	0.03	0-15-0	±0.0005	0.0002	±0.0002	46	0.3 or less							1	
513-453-10E	-	513-453-10T	0.0001	0.008	0-4-0	±0.0001	0.0001	±0.00004	40	0.5 01 1688							1	

 $^{^{\}star}$ We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.

DIMENSIONS



Note 1: 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.

Note 2: Stem with dovetail groove is not included in the mass.

Note 3: 513-4XX-10 is indicated on the dial face. But the Order No. for the Special Set provided with the stem etc. has a suffix (E or T) at the end.





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







- With revolution counter
- Carbide contact point





Graduation: 0.002 mm Range: 0.4 mm

- With revolution counter
- Carbide contact point







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



Graduation: 0.0005 in Range: 0.06 in

- With revolution counter
- (Carbide contact point





Graduation: 0.0005 in Range: 0.06 in

- With revolution counter
- Carbide contact point



Contact point No. 133195





- With revolution counter
- Long contact point
- Carbide contact point



Contact point No. 133195



Graduation: 0.0005 in Range: 0.06 in

- With revolution counter
- [Long contact point
- Carbide contact point



Contact point No. 21CZB064



Graduation: 0.0001 in Range: 0.016 in

- With revolution counter
- (Carbide contact point





Graduation: 0.0001 in Range: 0.016 in

- With revolution counter
- Carbide contact point



SPECIFICATIONS

Metric																				
	Order No.					Maxim	num perm	issib l e er	ror (MPE)	* (µm)				ıter					±	
Basic set	P l us set	Full set	Graduation (mm)	Range (mm)	Dia l reading	Measuring range	One rev.	10 scale divisions	Hysteresis	Repetability	Mass (g)	Measuring force (N)	H High accuracy	▼ With revolution counter	Long contact point	Standard	🖫 Double scale spacing	Compact	Carbide contact point	Ruby contact point
513-444-10E	513-444-10A	513-444-10T	0.01	1.6	0-40-0	16	10	5	5	3	48	0.3 or less		1					1	
513-445-10E	513-445-10A	513-445-10T	0.002	0.4	0-100-0	6	5	2	4	1	40	o.5 or less		1					1	

Inch																			
	Order No.					Maximu	ım permissil	le error (M	PE)* (in)				nter					¥	
Basic set	P l us set	Full set	Graduation (in)	Range (in)	Dia l reading	One rev.	First 2.5 rev.	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	Long contact point	Standard	Double scale spacing	Compact	Carbide contact point	Ruby contact point
-	513-442-10A	513-442-10T									0.3 or less		1					1	
_	513-442-16A	513-442-16T	0.0005	0.06	0-15-0	±0.0005	±0.0005	0.0002	±0.0002		0.5 01 1655		1					1	
_	513-446-10A	513-446-10T	0.0003	0.00	0-13-0	±0.0003	±0.0003	0.0002	±0.0002	48	0.2 or less		1	1				1	
-	513-446-16A	513-446-16T								40	0.2 OF IESS		1	1				1	
-	513-443-10A	513-443-10T	0.0001	0.016	0-4-0	±0.0002	±0.0002	0.0001	±0.00004		0.3 or less		1					1	
-	513-443-16A	513-443-16T	0.0001	0.016	0-4-0	±0.0002	±0.0002	0.0001	±0.00004		0.5 01 less		1					1	

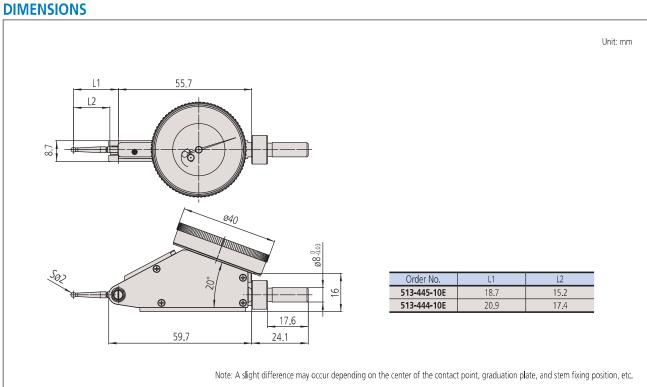
* We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.

Note 1: 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.

Note 2: Stem with dovetail groove is not included in the mass.

Note 3: 513-4XX-10 is indicated on the dial face. But the Order No. for the Special Set provided with the stem etc. has a suffix (E or T) at the end.



Mitutoyo



Pocket Type (Slim design is suited for measurement in deep holes)











- S Standard Compact
- Carbide contact point





- Long contact point
- Compact
- Carbide contact point





Graduation: 0.01 mm Range: 0.5 mm

- Long contact point
- Double scale spacing
- Compact
- Carbide contact point





Graduation: 0.002 mm Range: 0.2 mm

- Standard
- Compact
- Carbide contact point



Contact point No. 136013

513-515-10E/513-515-10T



Graduation: 0.001 mm Range: 0.14 mm

- High accuracy
- Compact
- Carbide contact point





Range: 0.04 in

- Compact
- Carbide contact point





Graduation: 0.0005 in Range: 0.02 in

- Long contact point Double scale spacing
- Compact
- Carbide contact point





Graduation: 0.0001 in Range: 0.01 in

- Compact
- Carbide contact point



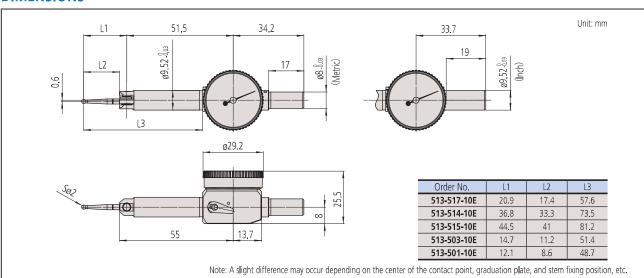
SPECIFICATIONS

D. 10	
- IVI	etric

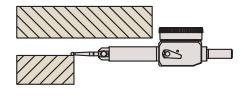
Order No.					Ma	ximum peri				ıter					Ħ				
Basic set	Full set	Graduation (mm)	Range (mm)	Dia l reading	Measuring range	One rev.	10 scale divisions	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	■ Long contact point	Standard	Double scale spacing	Compact	Carbide contact point	Ruby contact point
513-517-10E	513-517-10T	0.01	8.0	0-40-0	9	-	5	4	3	50	0.3 or less				1		1	1	
513-514-10E	513-514-10T	0.01	0.5	0-25-0	10	-	5	5	3	51	0.3 or less			1		1	1	1	
513-515-10E	513-515-10T	0.01	1	0-50-0	10	-	5	5	3	51	0.3 or less			1			1	1	
513-503-10E	513-503-10T	0.002	0.2	0-100-0	4	-	2	3	1	50	0.4 or less				1		1	1	
513-501-10E	513-501-10T	0.001	0.14	0-70-0	4	-	2	3	1	50	0.5 or less	1					1	1	

Inch																		
Ord	er No.				Maxi	mum permissil	ble error (MPE))* (in)				ıter					#	
Basic set	Full set	Graduation (in)	Range (in)	Dia l reading	One rev.	First 2.5 rev.	Hysteresis	Repetability	Mass (g)	Measuring force (N)	High accuracy	With revolution counter	Long contact point	Standard	🖾 Double scale spacing	Compact	Carbide contact point	Ruby contact point
513-518-10E	513-518-10T	0.001	0.04	0-20-0	±0.001	-	0.0002	±0.0004	50	0.3 or less						1	1	
513-512-10E		0.0005	0.02	0-10-0	±0.0005	-	0.0002	±0.0002	51	0.3 or less			1		1	1	1	
513-504-10E	513-504-10T	0.0001	0.01	0-5-0	±0.0002	-	0.0001	±0.00004	50	0.3 or less						1	1	

DIMENSIONS







Pocket type can be fixed at the body (at ø9.52)

^{*} We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.

Note 1: 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.

Note 2: Stem is not included in the mass.

Note 3: 513-5XX-10 is indicated on the dial face. But the Order No. for the Special Set provided with the stem etc. has a suffix (E or T) at the end.



Set configuration





Horizontal (20° tilted face)



Pocket type

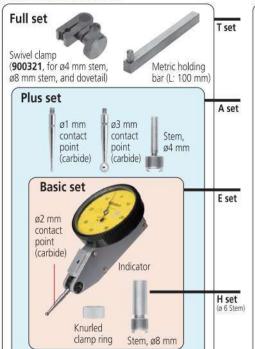


Parallel

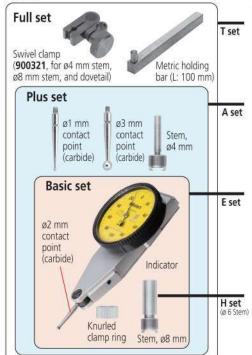


Vertical

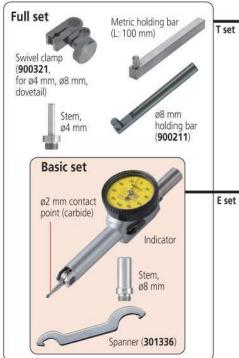
Metric and Metric/Inch



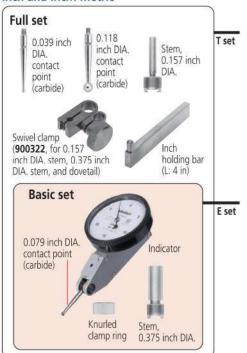
Metric



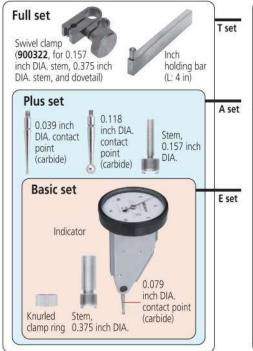
Metric



Inch and Inch/Metric



Inch



Inch





External dimensions of contact points for dial test indicators

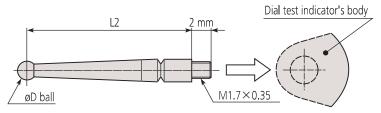
The length of the contact point is specific to each indicator model. Always use the contact point designed for your model.

	L2	øD (mm)										
	(mm)	ø0.5 steel	ø0.7 steel	ø1 carbide	ø2 carbide	ø2 ruby	ø3 carbide	Applicable model				
L2	8.6	-	-	136756	136104	-	136758	513-501-10E, 513-501-10T				
L2	11.2	190547	190548	103017	103010	21CZA209	103018	513-401-10E, 513-471-10E, 513-503-10E, 513-503-10T				
12	15,2	21CAB109	21CAB110	131314	103011	21CZB068	131315	513-405-10A, 513-405-10E, 513-404-10T, 513-425-10A, 513-425-10E, 513-465-10E, 513-445-10A, 513-445-10E, 513-445-10T, 513-455-10A, 513-455-10E, 513-455-10T, 513-475-10E, 513-485-10E				
L2	17.4	190549	190550	103013	103006	21CZA201	103014	513-404-10A, 513-404-10E, 513-404-10T, 513-464-10E, 513-444-10A, 513-444-10E, 513-444-10T, 513-454-10A, 513-454-10E, 513-454-10T, 513-484-10A, 513-484-10E, 513-484-10T, 513-474-10E, 513-517-10E, 513-517-10T				
L2	18.7	190654	190653	137558	137557	21CZA210	137559	513-424-10A, 513-424-10E, 513-424-10T, 513-456-10E, 513-466-10E, 513-426-10A, 513-426-10E 513-478-10E, 513-486-10E				
12	33.3	-	-	137746	129949	-	137747	513-514-10E, 513-514-10T				
L2	33.9	21CAB111	21CAB112	131316	131324	-	131317	513-414-10A, 513-414-10E, 513-414-10T				
12	41.0	190656	190655	136235	136013	21CZA211	136236	513-415-10A, 513-415-10E, 513-415-10T, 513-477-10E, 513-515-10E, 513-515-10T				

Note: Carbide contact point is slightly magnetic. ø1and ø3 contact points with non-conductive ruby ball which can be used for EDM machines are available by special order.

Contact point replacement

- To remove a contact point, wrap a soft waste cloth around the contact point and rotate it slowly while being pinched with pliers so as not to cause a scratch on it.
- After replacement of a contact point, the indicator must be calibrated against a reference. If a contact point is bent or broken, inner components might be damaged. In case of significant deterioration of accuracy or performance, the indicator needs to be repaired.
- Recommended tightening torque: 0.16 N·m





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