

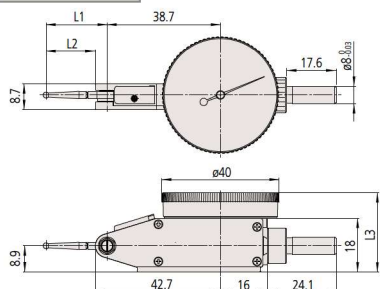


An inspection certificate is supplied as standard.
Refer to page U-11 for details.

DIMENSIONS

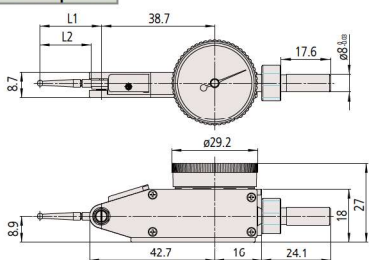
Horizontal

unit: mm



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

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.

Special Set: 513-908-10E (Metric)

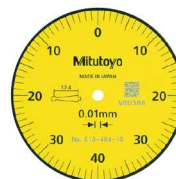
513-404-10E: Dial test indicator
7014-10: Mini magnetic stand

513-907-10E (inch)

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



Dial Test Indicator SERIES 513 — Horizontal Type

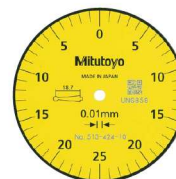


Graduation: 0.01 mm
Range: 0.8 mm

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

☒ Standard

☒ Carbide contact point
(Slightly magnetic)

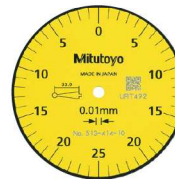


Graduation: 0.01 mm
Range: 0.5 mm

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

☒ Standard

☒ Double scale spacing
☒ Carbide contact point
(Slightly magnetic)

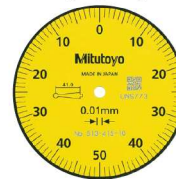


Graduation: 0.01 mm
Range: 0.5 mm

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

☒ Long stylus

☒ Carbide contact point
(Slightly magnetic)
☒ Double scale spacing

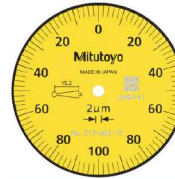


Graduation: 0.01 mm
Range: 1.0 mm

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

☒ Long stylus

☒ Carbide contact point
(Slightly magnetic)

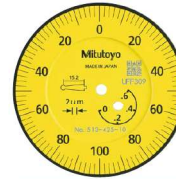


Graduation: 0.002 mm
Range: 0.2 mm

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

☒ Standard

☒ Carbide contact point
(Slightly magnetic)



Graduation: 0.002 mm
Range: 0.6 mm

513-425-10E / 10A

☒ With revolution
counter

☒ Carbide contact point
(Slightly magnetic)

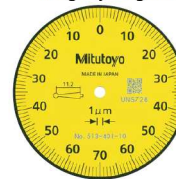


Graduation: 0.002 mm
Range: 0.2 mm

513-465-10E

☒ Compact

☒ Carbide contact point
(Slightly magnetic)

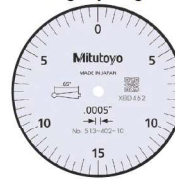


Graduation: 0.001 mm
Range: 0.14 mm

513-401-10E

☒ High accuracy

☒ Carbide contact point
(Slightly magnetic)



Graduation: 0.0005 in
Range: 0.03 in

513-402-10E / 10T

☒ Standard

☒ Carbide contact point
(Slightly magnetic)



Graduation: 0.0001 in
Range: 0.008 in

513-403-10E / 10T

☒ Standard

☒ Carbide contact point
(Slightly magnetic)

Note: 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.

Dial Test Indicators

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

SPECIFICATIONS

Metric																									
Order No.			Graduation (mm)	Range (mm)	Dial reading	Maximum permissible error (MPE)* (μm)				Mass (g)	Measuring force (N)	High accuracy	With revolution counter	Long contact point	Standard	Double scale spacing	Compact	Carbide contact point (slightly magnetic)	Ruby contact point						
Basic set	Plus set	Full set				Measuring range	One rev.	10 scale divisions	Hysteresis											Repeatability					
513-424-10E	513-424-10A	513-424-10T	0.01	0.5	0-25-0	6	-	5	4	3	45	0.3 or less				✓			✓						
513-478-10E	-	-				10						✓			✓										
513-466-10E	-	-				16			10		5	41	0.2 or less				✓		✓	✓	✓		✓		
513-414-10E	513-414-10A	513-414-10T										✓			✓			✓	✓	✓					
513-426-10E	513-426-10A	-		1.5		16	10					45	0.4 or less	✓					✓						
513-404-10E	513-404-10A	513-404-10T										41				✓			✓						
513-474-10E	-	-		0.8	0-40-0	9			4				0.3 or less			✓				✓					
513-464-10E	-	-																✓							
513-415-10E	513-415-10A	513-415-10T											0.2 or less			✓			✓						
513-477-10E	-	-		1.0	0-50-0	10	-		5					✓						✓					
513-405-10E	513-405-10A	513-405-10T	0.002	0.2	0-100-0	4	-	2	3	1	45	0.3 or less				✓			✓						
513-475-10E	-	-																		✓				✓	
513-455-10E	513-455-10A	513-455-10T															41						✓	✓	
513-425-10E	513-425-10A	-				0.6					7	5		4				0.4 or less		✓				✓	
513-401-10E	-	-	0.001	0.14	0-70-0	4	-	3		45	0.3 or less	✓							✓						
513-471-10E	-	-							✓																

Inch																								
Order No.			Graduation (in)	Range (in)	Dial reading	Maximum permissible error (MPE)* (in)			Mass (g)	Measuring force (N)	 High accuracy	 With revolution counter	 Long contact point	 Standard	 Double scale spacing	 Compact	 Carbide contact point (slightly magnetic)	 Ruby contact point						
Basic set	Plus set	Full set				One rev.	Hysteresis	Repeatability																
513-402-10E	–	513-402-10T	0.0005	0.03	0-15-0	±0.0005	0.0002	±0.0002	45	0.3 or less														
513-472-10E	–	–								0.2 or less														
513-412-10E	–	513-412-10T							0.00005	0.008	0-4-0	±0.0001	0.0001	±0.00004	45	0.3 or less								
513-479-10E	–	–														0.2 or less								
513-462-10E	–	–													0.3 or less									
513-407-10E	–	513-407-10T	0.0001	0.008	0-4-0	±0.0001	0.0001	±0.00004	45	0.3 or less														
513-403-10E	–	513-403-10T								0.2 or less														
513-473-10E	–	–							41	0.3 or less														
513-463-10E	–	–																						

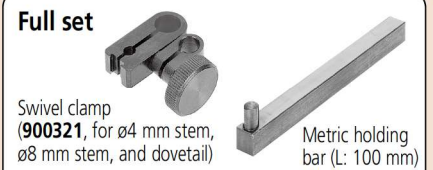
Metric/Inch																			
Order No.			Graduation	Range	Dial reading	Maximum permissible error (MPE)* (μm)				Mass (g)	Measuring force (N)	 High accuracy	 With revolution counter	 Long contact point	 Standard	 Double scale spacing	 Compact	 Carbide contact point (slightly magnetic)	 Ruby contact point
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repeatability										
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							✓	

Inch / Metric																			
Order No.			Graduation	Range	Dial reading	Maximum permissible error (MPE)* (in)			Mass (g)	Measuring force (N)	 High accuracy	 With revolution counter	 Long contact point	 Standard	 Double scale spacing	 Compact	 Carbide contact point (slightly magnetic)	 Ruby contact point	
Basic set	Plus set	Full set				One rev.	Hysteresis	Repeatability											
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								✓	

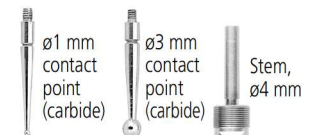
* We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.
Note: Stem with dovetail groove is not included in the mass.

Set Configuration: Metric and Metric/Inch

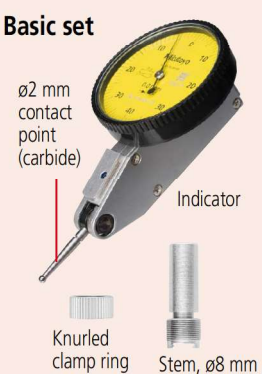
Full set



Plus set

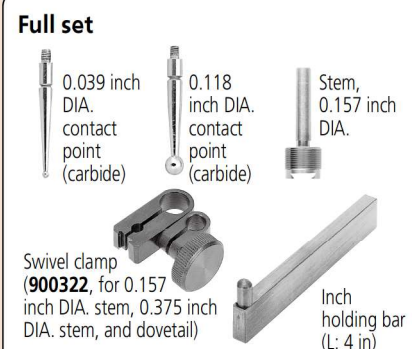


Basic set



Set Configuration: Inch and Inch/Metric

Full set



Basic set

