

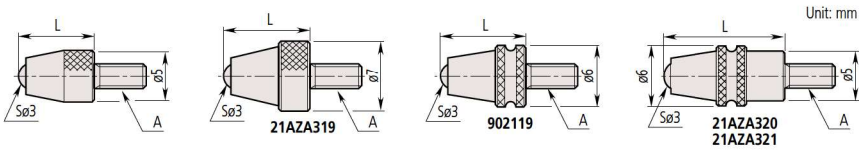
Dial Indicators

Optional Accessories for Digimatic and Dial Indicators and Linear Gages

Contact points, extension rod

- The thread of all contact points is M2.5 (P=0.45)×5 mm.
- After replacement, it must be tightened firmly to prevent looseness during use (recommended tightening torque: 50 N·cm).
- Carbide and ruby contact points are highly resistant to wear.

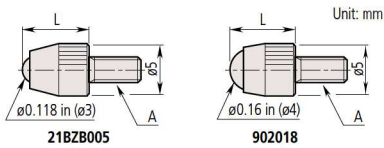
Standard contact point



Note: Contact points for water-proof indicators are equipped with a groove to locate the rubber boot.

A: M2.5×0.45

L (mm)	Material	Carbide		Ruby	Plastic
		Without groove	With groove (water-proof type)	Without groove	Without groove
7.3		901312	—	120047	901994
8.3		21AZA319	902119	—	—
12.1		—	21AZA320	—	—
14		21JAA225	—	—	—
15		120049	—	120051	—
17		21JAA224	—	—	—
19.3		—	21AZA321	—	—
20		137391	—	137392	—
22		21JAA226	—	—	—
25		120053	—	120055	—
30		21AAA252	—	21AAA253	—

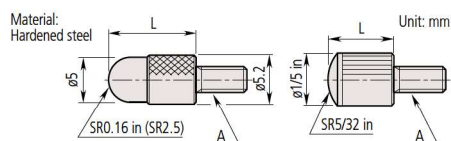


A: 4-48UNF

Material	Carbide	Plastic
L (in)		
1/4	21BZB005	902018

Shell Type Point

Contact point with a large radius.
Optimal for use on flat surfaces.

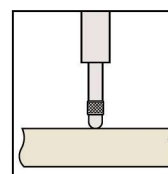


A: M2.5x0.45

Code No.	L (mm)
101386	5
101118	10
137393	15
101387	20
101388	25
21AAA254	30

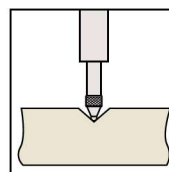
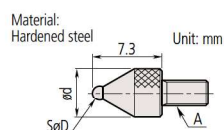
A: 4-48UNF

Code No.	L (in)
193697	3/32
101184	5/32
21AAA031	1/4
21AAA032	3/8
101185	1/2
21AAA033	5/8
101186	3/4
21AAA034	7/8
101187	1
21AAA035	1 1/4
21AAA036	1 1/2
21AAA037	1 3/4
21AAA038	2
21AAA039	2 1/4
21AAA040	2 1/2
21AAA041	2 3/4
21AAA042	3



Ball point

Optimal for workpieces with deep indentations.

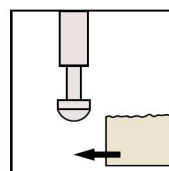
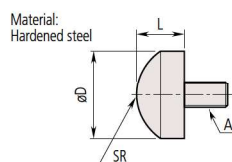


A: M2.5x0.45

Code No.	ØD (mm)	Ød (mm)	Spherical tip material
21AAA349	1	5	Carbide
21AAA350	1.5	5	
101122	1.8	5	Hardened steel
21AAA351	2.5	5	Carbide
21AAA352	4	5	

Spherical Point

A large radius makes this contact point optimal for use where the workpiece needs to slide from the side.



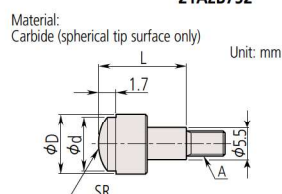
A: M2.5x0.45

Code No.	ØD (mm)	L (mm)	SR (mm)
111460	5.5	3	5
125258	7.9	5	5
101119	10	5	7

A: 4-48UNF

Code No.	ØD (in)	L (in)	SR (in)
101205	1/2	1/8	0.35
101204	3/8	3/32	0.28

Spherical Point (Carbide)



A: M2.5x0.45

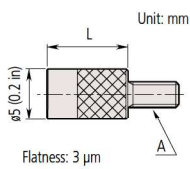
Code No.	ØD	Ød	L	SR
21AZB751	5.2	4.3	5	5
21AZB752	7.5	6.5	10	7
21AZB753	10.5	9.5	10	10

Dial Indicators

Flat Point

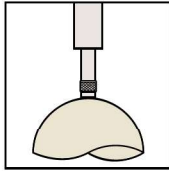


131365



A: M2.5×0.45

Code No.	L
131365	8
21AAB715	10



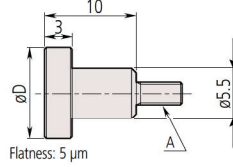
A: 4-48UNF

Code No.	L (in)
133017	5/16
21AAA043	1/2
21AAA044	3/4
21AAA045	1

Material:
Hardened steel

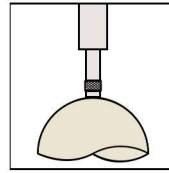


101117

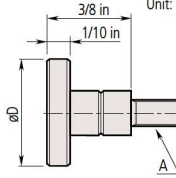


A: M2.5×0.45

Code No.	øD
101117	10
21AAB711	15
21AAB712	20
21AAB713	25
21AAB714	30



Unit: mm



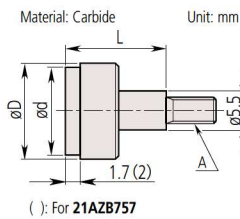
A: 4-48UNF

Code No.	øD (in)
101188	1/2
101189	3/8

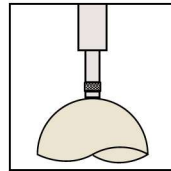
Flat Point (Carbide)



21AZB758



(): For 21AZB757



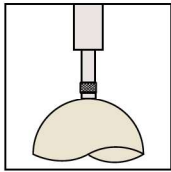
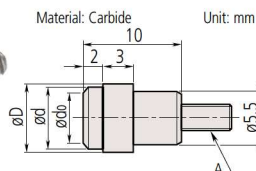
A: M2.5×0.45

Code No.	øD	ød	L
21AZB756	5.2	4.3*1	5
21AZB757	7	6.5*1	10
21AZB758	10.5	9.5*1	10
21AZB760	17	15*2	10
21AZB761	22	20*2	10
21AZB762	27	25*2	10
21AZB763	32	30*2	10

Flatness: *1: 3 µm, *2: 5 µm



21AZB754



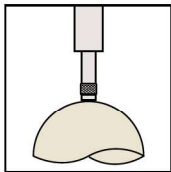
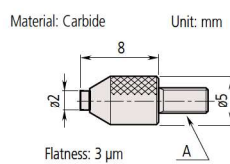
A: M2.5×0.45

Code No.	ød ₀	ød	øD
21AZB754	3	6.4	7
21AZB755	4.5	8	9

Flatness: 3 µm



21AZB759



A: M2.5×0.45

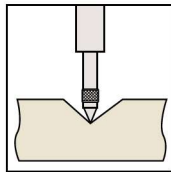
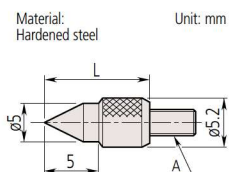
Code No.
21AZB759

Conical Point

Used for positioning the measurement point.
Since it can damage a workpiece easily, it is not suitable for use on soft materials.



101120



A: M2.5×0.45

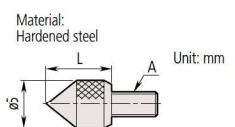
Code No.	Tip angle	L
101120	60°	10

A: 4-48UNF

Code No.	Tip angle	L (in)
101190	60°	1/2



101385



A: M2.5×0.45

Code No.	Tip angle	L
101385	90°	5

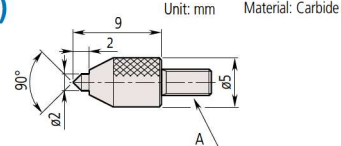
A: 4-48UNF

Code No.	Tip angle	L (in)
101191	90°	1/4

Conical Point (Carbide)

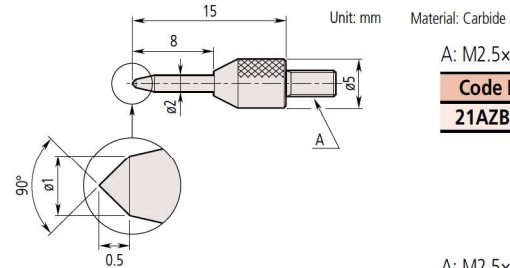
21AZB764

21AZB765



A: M2.5×0.45

Code No.
21AZB764



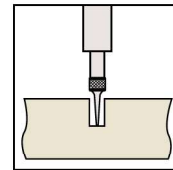
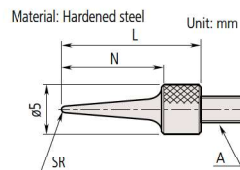
A: M2.5×0.45

Code No.
21AZB765

Needle Point

Suitable for probing the bottom of a groove or hole.

101121



A: M2.5×0.45

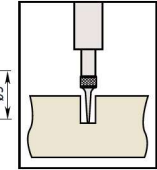
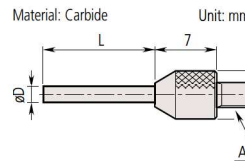
Code No.	N	L	SR
101121	11	15	0.4
137413	13	17	0.2
21AAA255	21	25	0.4
21AAA256	31	35	0.4

A: 4-48UNF

Code No.	L (in)	SR (in)
21AAA030	0.6	0.016
21AAA046	1	0.016
21AAA047	1 1/2	0.016
21AAA048	2	0.016

Needle Point (Carbide)

137257



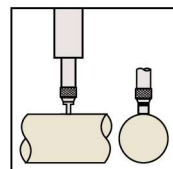
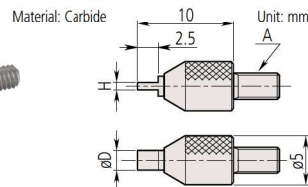
A: M2.5×0.45

Code No.	øD	L
120066	0.45	3
21AAA329	0.45	5
120065	1	3
21AAA330	1	5
21AAA331	1	8
21AAA332	1	10
21AAA333	1	20
21AAA334	1	40
21AAA335	1.5	5
21AAA336	1.5	10
120064	1.5	13
21AAA337	1.5	20
21AAA338	1.5	40
137257	2	8
21AAA257	2	18
21AAA258	2	28
21AAA339	2	40

Blade Point (Carbide)

Suitable for measuring cylinders.

21AZB768



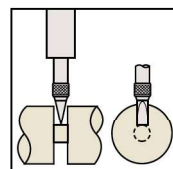
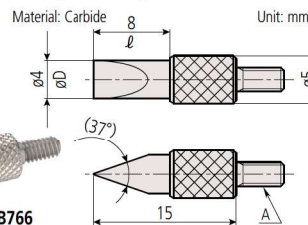
A: M2.5×0.45

Code No.	H	øD
21AZB767	0.4	2
21AZB768	0.6	2
21AZB769	1	4

Knife Edge Point (Carbide)

Suitable for measuring narrow groove diameter, etc.

21AZB766



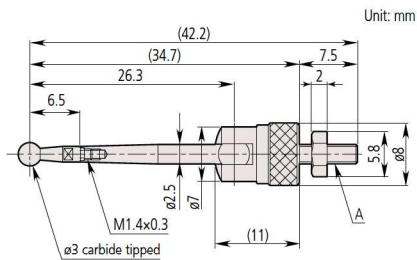
A: M2.5×0.45

Code No.
21AZB766

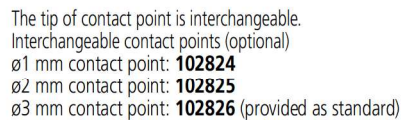
07 Indicators

Dial Indicators

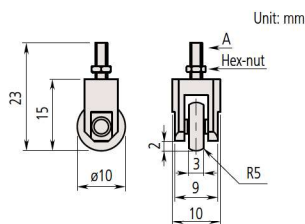
- * Perform measurement in the same posture and conditions as for the reference setting so that variation due to lever deflection are reduced. Gently bring the contact point into touch with the workpiece. Use a dial indicator with as small a measuring force as possible.



900393



901954



901991

Note 2: High-accuracy roller with 5 μm runout is also available. (Special order item)

Interchangeable Contact Point Set

This set consists of six types of popular contact point for extending the use of an indicator to many applications.

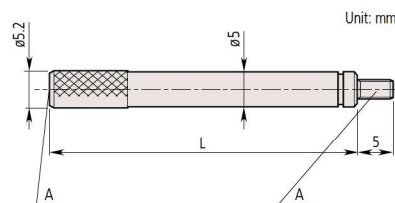


Set code No. **7822**

M2.5x0.45

Code No.	Contact points included
131365	Flat Point (ø5 mm)
101117	Flat Point (ø10 mm)
101121	Needle Point
101119	Spherical Point
101118	Shell Type Point (R2.5x10)
101387	Shell Type Point (R2.5x20)

Extension Rod

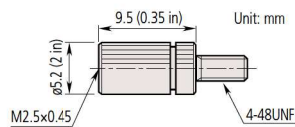


A: M2.5x0.45

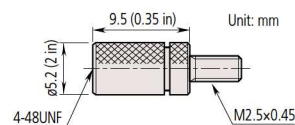
Code No.	L
303611	10
21AAA259A	15
303612	20
21AAA259B	25
303613	30
21AAA259C	35
21AAA259D	40
21AAA259E	45
21AAA259F	50
21AAA259G	55
304146	60
21AAA259H	65
21AAA259J	70
21AAA259L	75
21AAA259M	80
304147	90
303614	100

A: 4-48UNF

Code No.	L (in)
139167	1/2
301655	1
301657	2
301659	4



Code No.
21AAA011



Code No.
21AAA012