

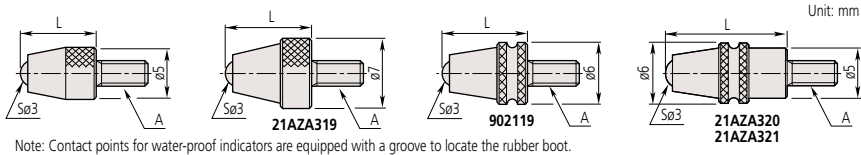
Dial Indicators

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

Optional Accessories for Digimatic and Dial Indicators and Linear Gages

Contact points, extension rod

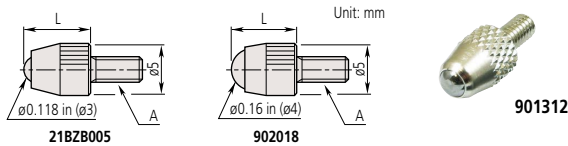
Standard contact point



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

A: M2.5x0.45

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	—

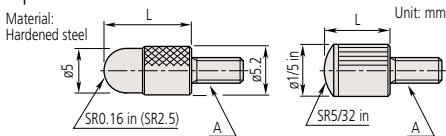


A: 4-48UNF

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

Shell Type Point

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



A: M2.5x0.45

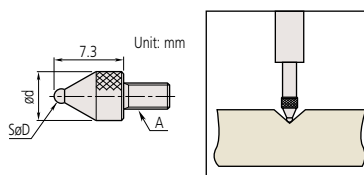
Order No.	L (mm)
101386	5
101118	10
137393	15
101387	20
101388	25
21AAA254	30

A: 4-48UNF

Order 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

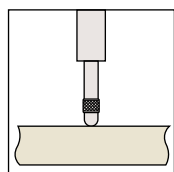
Ball point

Optimal for workpieces with deep indentations.



A: M2.5x0.45

Order No.	SøD (mm)	ød (mm)
21AAA349	1, carbide	5
21AAA350	1.5, carbide	5
101122	1.8, steel	5
21AAA351	2.5, carbide	5
21AAA352	4, carbide	5

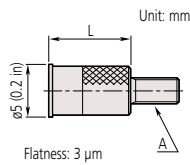


101118



101122

Flat Point

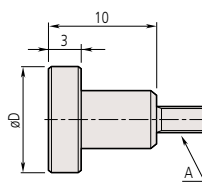


A: M2.5x0.45

Order No.	L
131365	8
21AAA340	10



131365



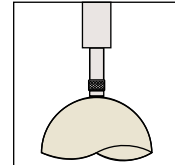
A: M2.5x0.45

Order No.	øD
101117	10
21AAA341	15
21AAA342	20
21AAA343	25
21AAA344	30



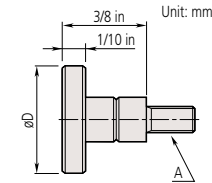
101117

Flatness: 5 µm



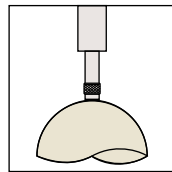
A: 4-48UNF

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

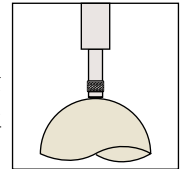
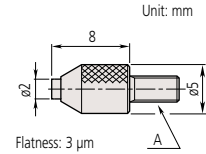


A: 4-48UNF

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



Flat Point (Carbide)

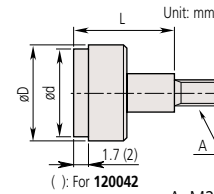


A: M2.5x0.45

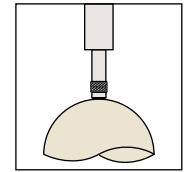
Order No.
120056



120056



(): For 120042



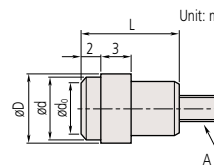
A: M2.5x0.45

Order No.	øD	ød	L
120041	5.2	4.3*1	5
120042	7	6.5*1	10
120043	10.5	9.5*1	10
21AAA345	17	15*2	10
21AAA346	22	20*2	10
21AAA347	27	25*2	10
21AAA348	32	30*2	10

Flatness: *1: 3 µm, *2: 5 µm



120043



137255

A: M2.5x0.45

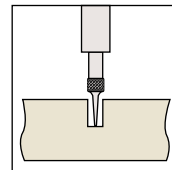
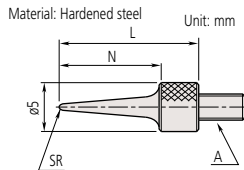
Order No.	ød ₀	ød	øD	L
137255	3	6.4	7	10
137399	4.5	8	9	10

Flatness: 3 µm

Needle Point

Suitable for probing the bottom of a groove or hole.

Material: Hardened steel



A: M2.5x0.45

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

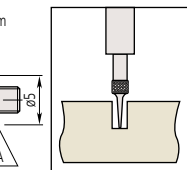
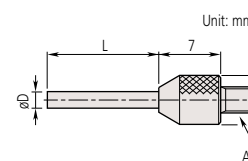


101121

A: 4-48UNF

Order 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)



A: M2.5x0.45

Order 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



137257

Dial Indicators

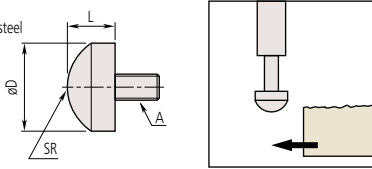
Comparison measuring instruments which ensure high quality, high accuracy and reliability.

Optional Accessories for Digimatic and Dial Indicators and Linear Gages

Spherical Point

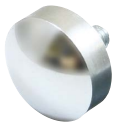
A large radius makes this contact point optimal for use where the workpiece needs to slide from the side.

Material:
Hardened steel



A: M2.5x0.45

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

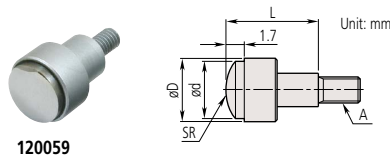


101119

A: 4-48UNF

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

Spherical Point (Carbide)



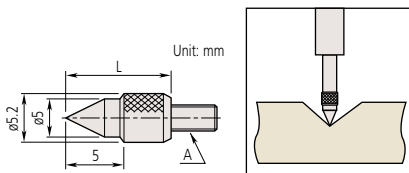
120059

A: M2.5x0.45

Order No.	øD	ød	L	SR
120058	5.2	4.3	5	5
120059	7.5	6.5	10	7
120060	10.5	9.5	10	10

Conical Point

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



A: M2.5x0.45

Order No.	Tip angle	L
101120	60°	10



101120

A: 4-48UNF

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



101385

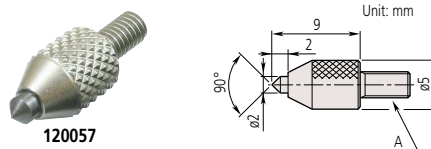
A: M2.5x0.45

Order No.	Tip angle	L
101385	90°	5

A: 4-48UNF

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

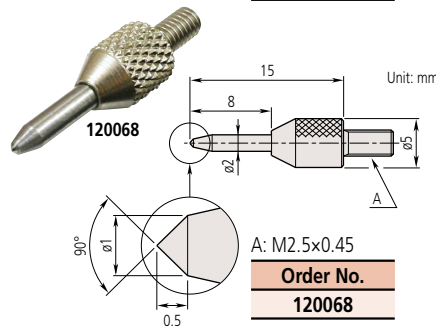
Conical Point (Carbide)



120057

A: M2.5x0.45

Order No.
120057



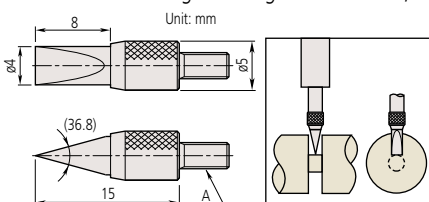
120068

A: M2.5x0.45

Order No.
120068

Knife Edge Point (Carbide)

Suitable for measuring narrow groove diameter, etc.



A: M2.5x0.45

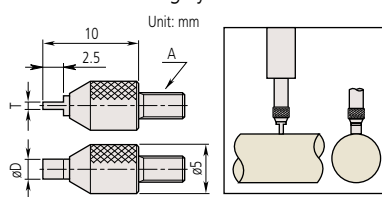
Order No.
120067



120067

Blade Point (Carbide)

Suitable for measuring cylinders.



A: M2.5x0.45

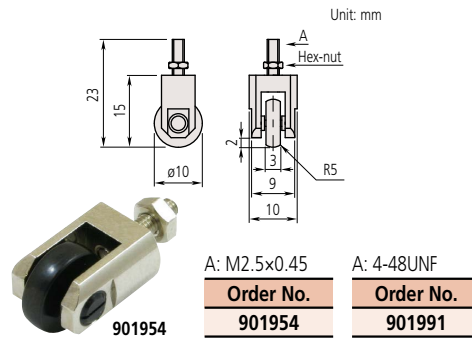
Order No.	T	øD
120061	0.4	2
120062	0.6	2
120063	1	4



120062

Roller Point

Suitable for use on a moving workpiece surface, or where the workpiece needs to slide from the side.



A: M2.5x0.45	A: 4-48UNF
Order No.	Order No.
901954	901991

Roller material: Hardened steel
 Roller runout: 10 µm or better
 Note 1: For a different roller diameter, contact your local Mitutoyo sales office.
 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.

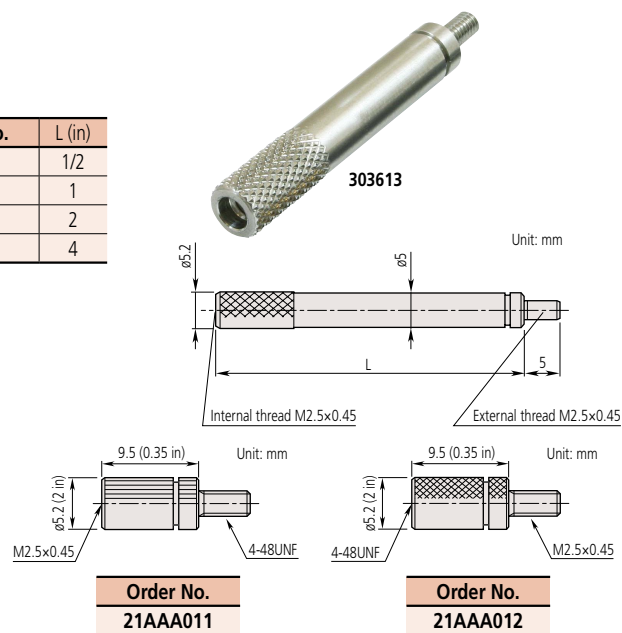


Set Order No. **7822**

A: M2.5x0.45	
Order 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 (R2.5x10)

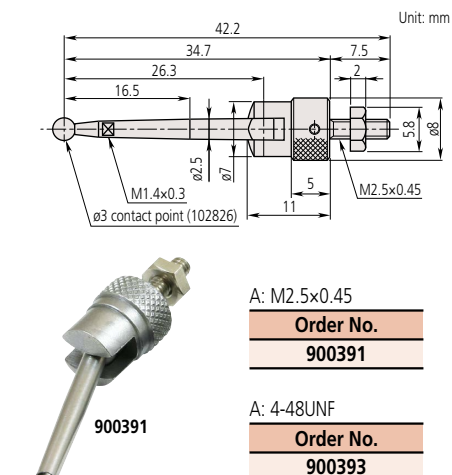
Extension Rod

A: M2.5x0.45		A: 4-48UNF	
Order No.	L	Order No.	L (in)
303611	10	139167	1/2
21AAA259A	15	301655	1
303612	20	301657	2
21AAA259B	25	301659	4
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		

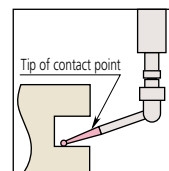


Lever Point

Suitable for use* on perpendicular faces, such as those within mold cavities. Lever can be adjusted to the required angle.



A: M2.5x0.45
Order No.
900391
A: 4-48UNF
Order No.
900393



The tip of contact point is interchangeable.
 Interchangeable contact points (optional)
 ø1 mm contact point: **102824**
 ø2 mm contact point: **102825**
 ø3 mm contact point: **102826** (provided as standard)

* 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.