

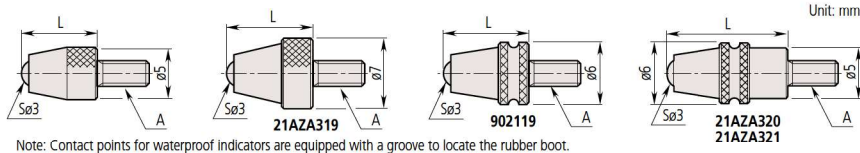
Dial Indicators

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

Optional Accessories for Digimatic and Dial Indicators and Linear Gages

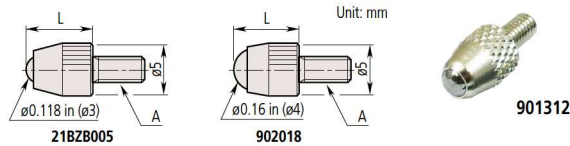
Contact points, extension rod

Standard contact point



A: M2.5x0.45

L (mm)	Material		Ruby	Plastic
	Without groove	With groove (waterproof type)		
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	—

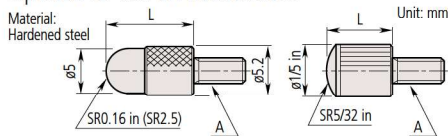


A: 4-48UNF

L (inch)	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

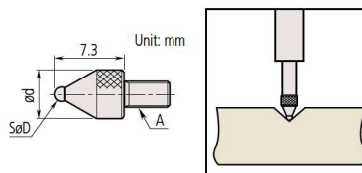
Order No.	L (mm)
101386	5
101118	10
137393	15
101387	20
101388	25
21AAA254	30

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

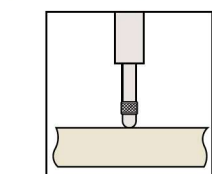
Ball point

Optimal for workpieces with deep indentations.



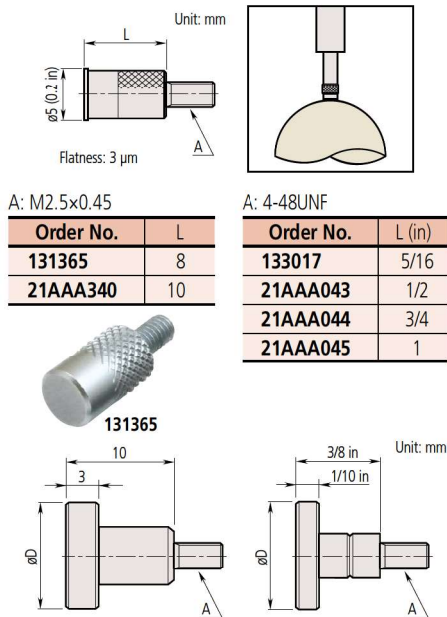
A: M2.5x0.45

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

Flat Point

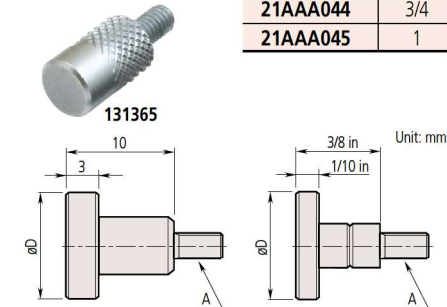


A: M2.5×0.45

Order No.	L
131365	8
21AAA340	10

A: 4-48UNF

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

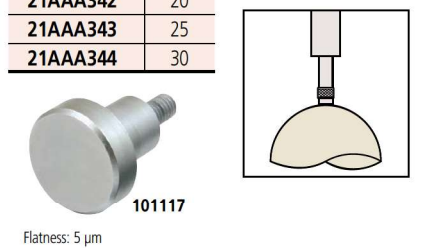


A: M2.5×0.45

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

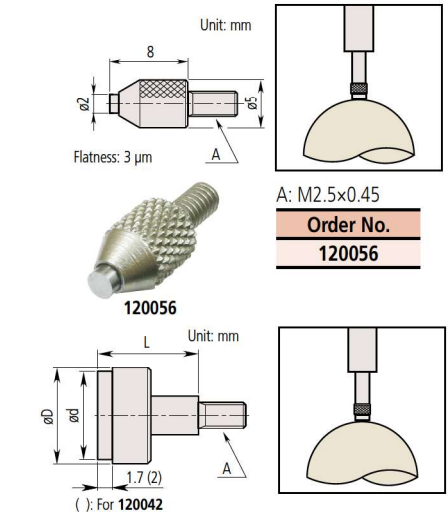
A: 4-48UNF

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



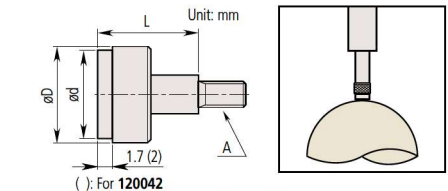
Flatness: 5 μm

Flat Point (Carbide)



A: M2.5×0.45

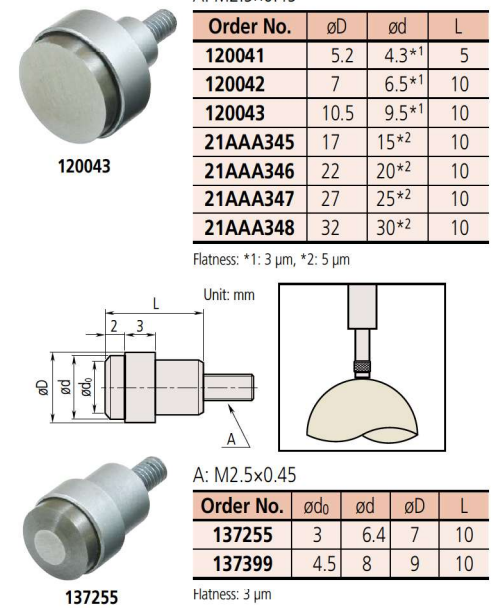
Order No.
120056



A: M2.5×0.45

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

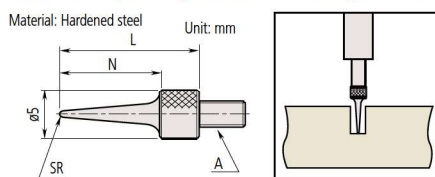
Flatness: *1: 3 μm, *2: 5 μm



Flatness: 3 μm

Needle Point

Suitable for probing the bottom of a groove or hole.

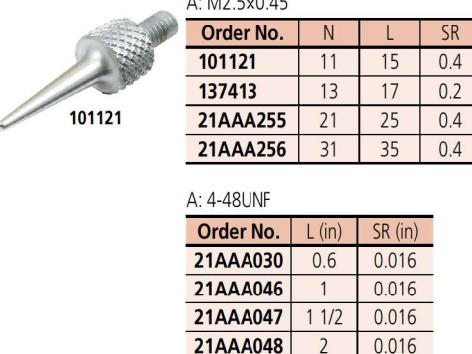


A: M2.5×0.45

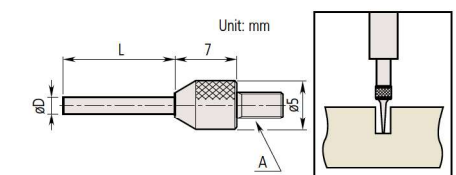
Order No.	N	L	SR
101121	11	15	0.4
137413	13	17	0.2
21AAA255	21	25	0.4
21AAA256	31	35	0.4

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: M2.5×0.45

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

Dial Indicators

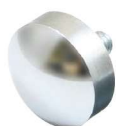
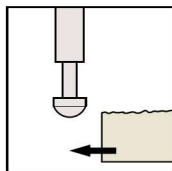
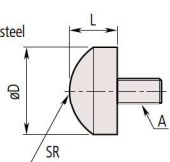
Comparison measuring instruments which ensure high quality, high accuracy and reliability.

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



101119

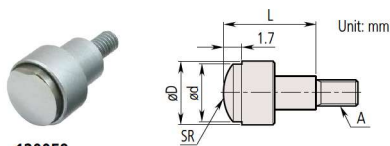
A: M2.5x0.45

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

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)



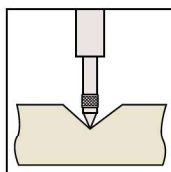
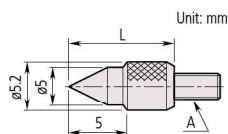
120059

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



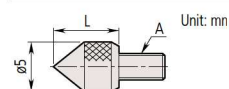
101120

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

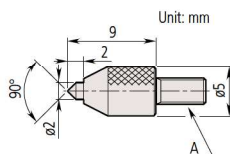
A: 4-48UNF

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

Conical Point (Carbide)



120057

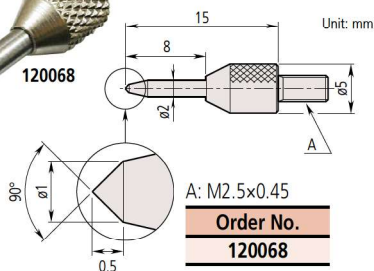


A: M2.5x0.45

Order No.
120057



120068

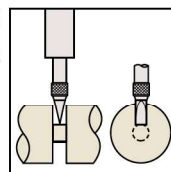
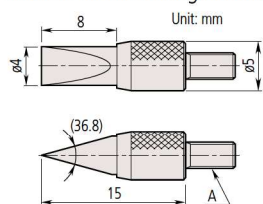


A: M2.5x0.45

Order No.
120068

Knife Edge Point (Carbide)

Suitable for measuring narrow groove diameter, etc.



A: M2.5x0.45

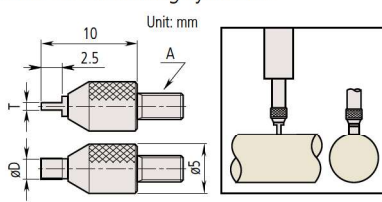
Order No.
120067



120067

Blade Point (Carbide)

Suitable for measuring cylinders.



A: M2.5x0.45

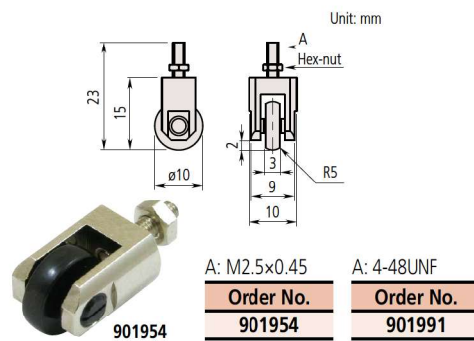
Order No.	T	øD
120061	0.4	2
120062	0.6	2
120063	1	4



120062

Roller Point

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



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.



A: M2.5x0.45

Order No.	Contact points included
7822	Flat Point (131365, ø5 mm)
	Flat Point (101117, ø10 mm)
	Needle Point (101121)
	Spherical Point (101119)
	Shell Type Point (101118) (R2.5x10)
	Shell Type Point (101387) (R2.5x10)

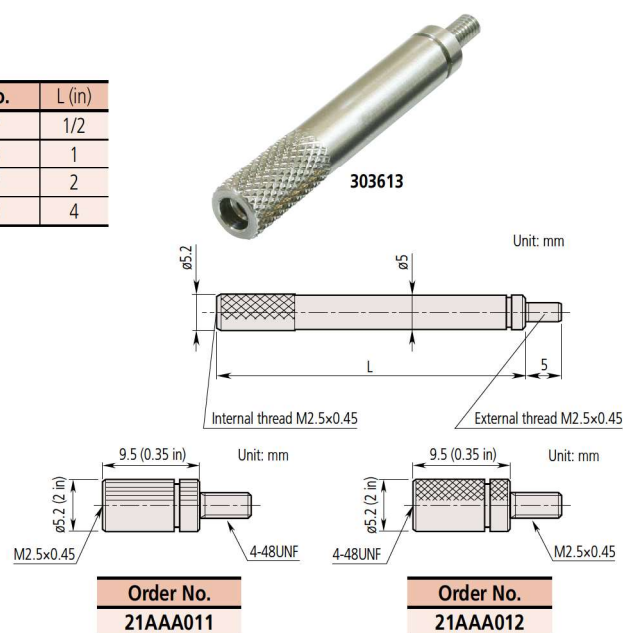
Extension Rod

A: M2.5x0.45

Order 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

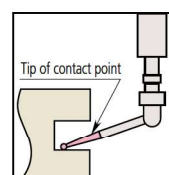
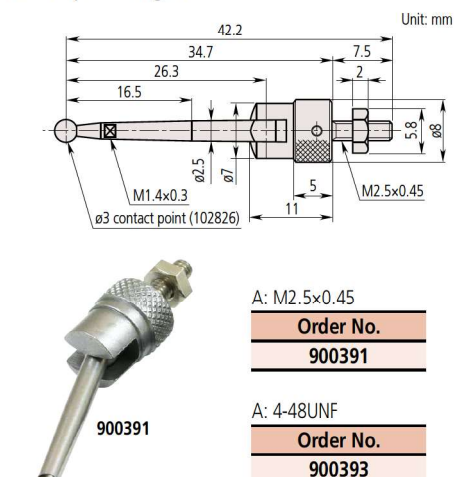
A: 4-48UNF

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



Lever Point

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



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.