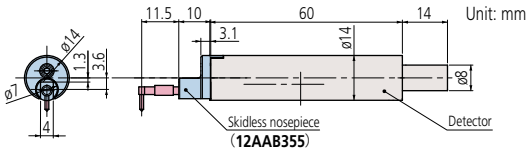
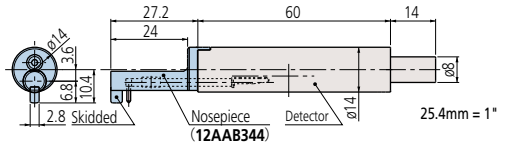
Detectors

Skidless



Skidded



Order No.	Measuring force	
178-396-2[*1*3]	0.75 mN	'97ISO and '01JIS compliant detectors
178-397-2[*1*4]	4 mN	Detectors that comply with previous standards, for general use, etc.
178-396[*2*3]	0.75 mN	'97ISO and '01JIS compliant detectors
178-397[*2*4]	4 mN	Detectors that comply with previous standards, for general use, etc.

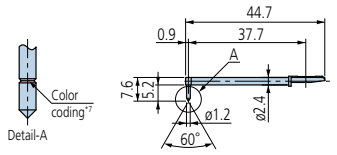
*1 The skidless nosepiece (**12AAB355**) is a standard accessory.
*2 The skidless nosepiece (**12AAB355**) and the nosepiece (**12AAB344**) are standard accessories.
*3 The standard stylus (**12AAC731**) is a standard accessory.
*4 The standard stylus (**12AAB403**) is a standard accessory.

Styli

Unit: mm
25.4mm = 1"

Standard stylus

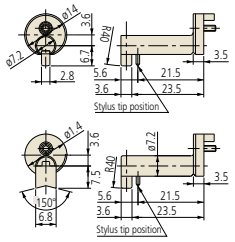
12AAE882 (1 µm)
12AAE924 (1 µm)[*5]
12AAC731 (2 µm)
12AAB403 (5µm)[*5]
12AAB415 (10 µm)[*5]
12AAE883 (250 µm)[*8]
( ): Tip radius



Nosepiece

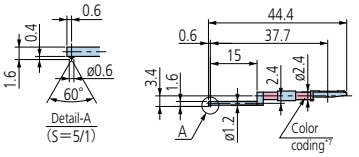
For standard
12AAB344
Remarks ø2 to 20

For round bar
12AAB345



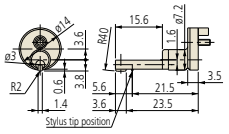
For small hole

12AAC732 (2 µm)
12AAB404 (5 µm)[*5]
12AAB416 (10 µm)[*5]
( ): Tip radius



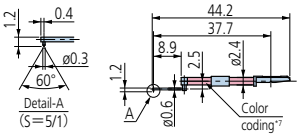
Nosepiece

For small hole
12AAB346
Remarks
Hole diameter: ø4 or more
Hole depth: 15 or less



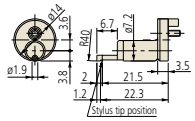
For extra-small hole

12AAC733 (2 µm)
12AAB405 (5 µm)[*5]
12AAB417 (10 µm)[*5]
( ): Tip radius



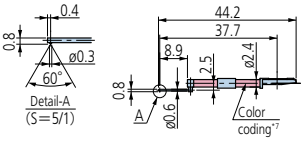
Nosepiece

For ultra-small hole
12AAB347
Remarks
Hole diameter: ø2.3 or more
Hole depth: 6.5 or less



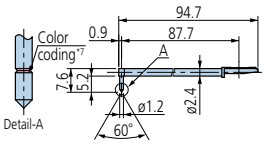
For ultra-small hole

12AAC734 (2 µm)
12AAB406 (5 µm)[*5]
12AAB418 (10 µm)[*5]
( ): Tip radius

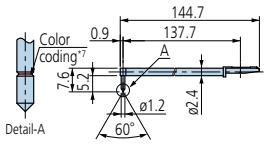


For deep hole[*6]

2X stylus
12AAC740 (2 µm)
12AAB413 (5 µm)[*5]
12AAB425 (10 µm)[*5]
( ): Tip radius

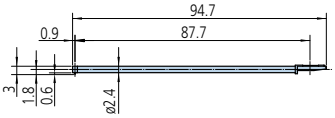


3X stylus
12AAC741 (2 µm)
12AAB414 (5 µm)[*5]
12AAB426 (10 µm)[*5]
( ): Tip radius



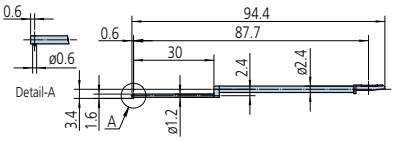
Double-length for deep hole[*6]

12AAE898 (2 µm)
12AAE914 (5 µm)[*5]
( ): Tip radius



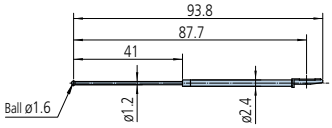
For small hole / Double-length for deep hole[*6]

12AAE892 (2 µm)
12AAE908 (5 µm)[*5]
( ): Tip radius



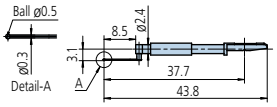
For small hole[*6*8]

12AAE884
(ø1.6 mm)



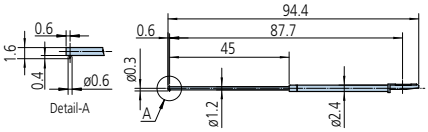
For ultra-small hole[*8]

12AAJ662
(ø0.5 mm)



For small slotted hole[*6]

12AAE938 (2 µm)
12AAE940 (5 µm)[*5]



*5 Tip angle 90°
*6 For downward-facing measurement only.

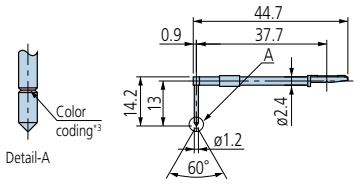
*7

Tip radius	1 µm	2µm	5µm	10 µm	250 µm
Color coding	White	Black	No Color	Yellow	No notch or color

*8 Used for calibration, a standard step gauge (**178-611**, option) is also required

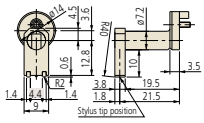
For deep groove (10 mm)

12AAC735 (2 µm)
12AAB409 (5 µm)*1
12AAB421 (10 µm)*1
( ): Tip radius



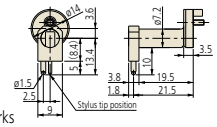
Nosepiece

For deep groove 10
12AAB349



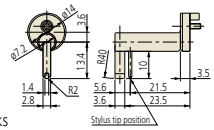
Remarks
Depth: 10 or less, Width: 9.5 or more

For R-Surface
12AAB351



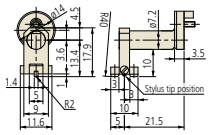
Remarks
Convex: R1.5 or more
Concave: R3 or more

For narrow groove
12AAB350



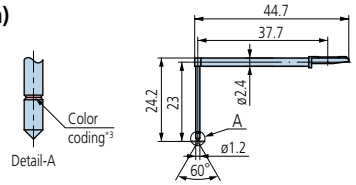
Remarks
Depth: 10 or less, Width: 3 or more

For vibration
12AAB352



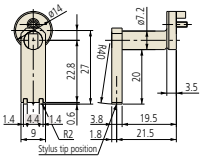
For deep groove*2 (20 mm)

12AAC736 (2 µm)
12AAB408 (5 µm)*1
12AAB420 (10 µm)*1
( ): Tip radius



Nosepiece

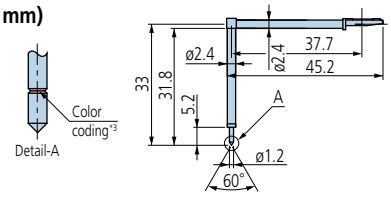
For deep groove 20
12AAB348



Remarks
Groove depth: 20 or less
Groove pitches: 9.5 or more

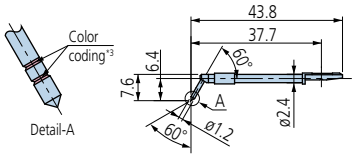
For deep groove*2 (30 mm)

12AAC737 (2 µm)
12AAB407 (5 µm)*1
12AAB419 (10 µm)*1
( ): Tip radius



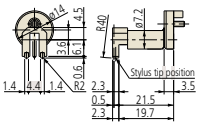
For gear tooth

12AAB339 (2 µm)
12AAB410 (5 µm)
12AAB422 (10 µm)
( ): Tip radius



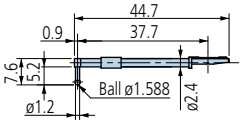
Nosepiece

For corner
12AAB353



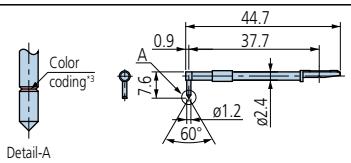
For rolling circle waviness surface*4

12AAB338 (ø1.588)
( ): Tip radius



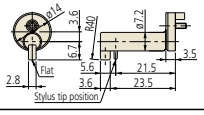
For knife-edge*4

12AAC738 (2 µm)
12AAB411 (5 µm)*1
12AAB423 (10 µm)*1
( ): Tip radius



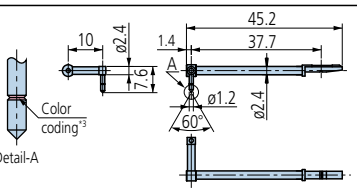
Nosepiece

For knife-edge
12AAB354



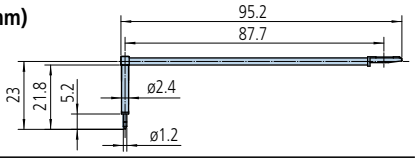
For eccentric arm*2

12AAC739 (2 µm)
12AAB412 (5 µm)*1
12AAB424 (10 µm)*1
( ): Tip radius



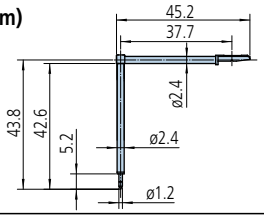
For deep groove*2 (20 mm)

12AAE893 (2 µm)*1
12AAE909 (5 µm)
( ): Tip radius



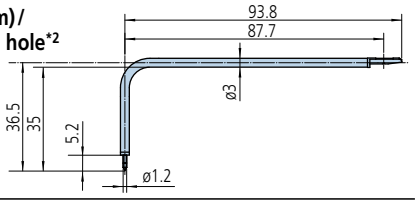
For deep groove*2 (40 mm)

12AAE895 (2 µm)*1
12AAE911 (5 µm)
( ): Tip radius



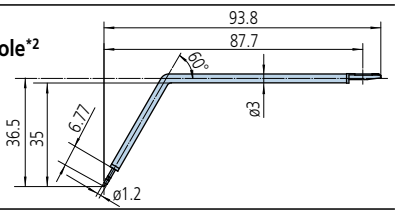
For deep groove (30 mm) / Double-length for deep hole*2

12AAE894 (2 µm)*1
12AAE910 (5 µm)
( ): Tip radius



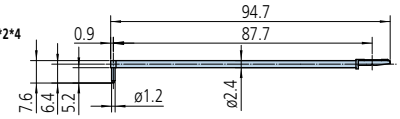
For gear tooth / Double-length for deep hole*2

12AAE896 (2 µm)*1
12AAE912 (5 µm)*1
( ): Tip radius



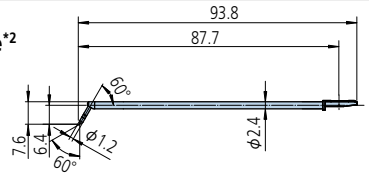
For rolling circle waviness / Double-length for deep hole*2*4

12AAE886 (250 µm)
( ): Tip radius



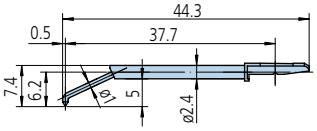
For corner hole / Double-length for deep hole*2

12AAM601 (2 µm)
12AAM603 (5 µm)
( ): Tip radius



Hole-bottom cone stylus

12AAE899 (2 µm)
12AAE915 (5 µm)*1
( ): Tip radius



*1 Tip angle 90°
*2 For downward-facing measurement only.

*3

Tip radius	2 µm	5 µm	10 µm
Color coding	Black	No color	Yellow

*4 Used for calibration, a standard step gauge (**178-611**, option) is also required
Note: Customized special interchangeable styli are available on request. Please contact any Mitutoyo sales office for more information.