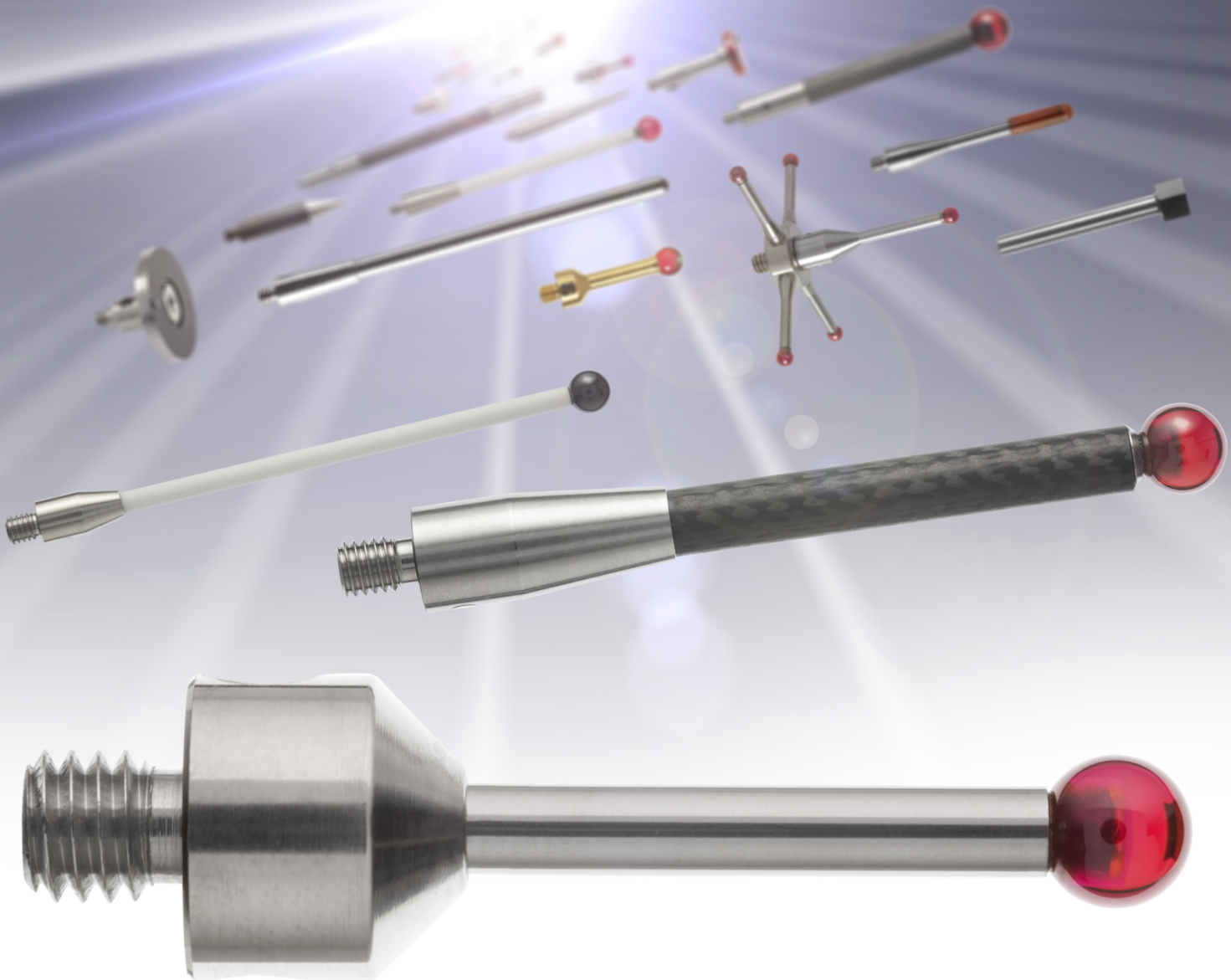


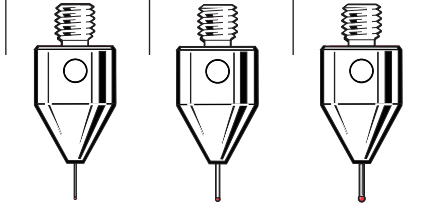
M5 threaded stylus range



Ruby micro ball styli (Tungsten carbide stems)

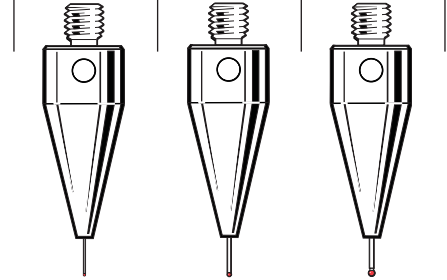
Part number	A-5003-5201	A-5003-5202	A-5003-5203
A Ball dia. mm (in.)	0.3 (0.012)	0.5 (0.020)	0.7 (0.028)
B Length mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
C Stem dia. mm (in.)	0.2 (0.008)	0.4 (0.016)	0.5 (0.020)
D EWL* mm (in.)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Mass grammes	6.5	6.5	6.5

20 mm range



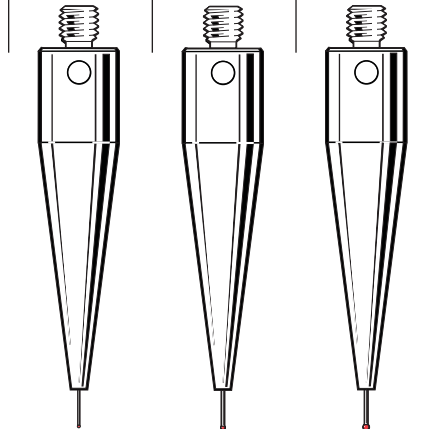
Part number	A-5003-5211	A-5003-5212	A-5003-5213
Ball dia. mm (in.)	0.3 (0.012)	0.5 (0.020)	0.7 (0.028)
Length mm (in.)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
Stem dia. mm (in.)	0.2 (0.008)	0.4 (0.016)	0.5 (0.020)
EWL* mm (in.)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Mass grammes	8.95	8.95	8.98

30 mm range



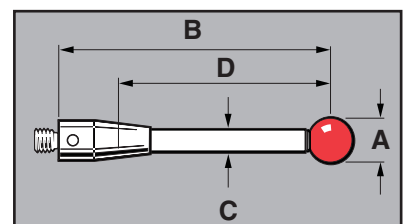
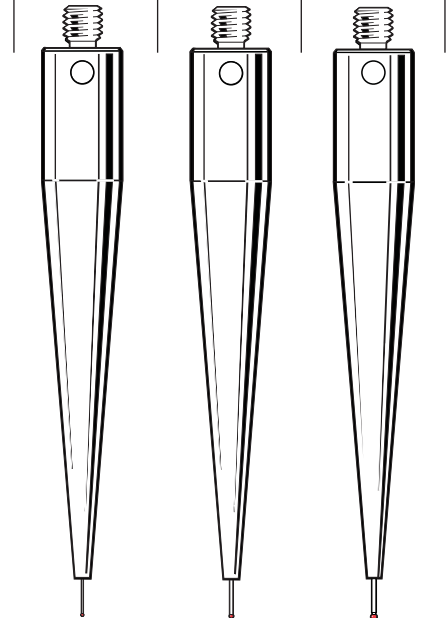
Part number	A-5003-5225	A-5003-5226	A-5003-5227
A Ball dia. mm (in.)	0.3 (0.012)	0.5 (0.020)	0.7 (0.028)
B Length mm (in.)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
C Stem dia. mm (in.)	0.2 (0.008)	0.4 (0.016)	0.5 (0.020)
D EWL* mm (in.)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Mass grammes	15.79	15.79	15.79

50 mm range



Part number	A-5003-5240	A-5003-5241	A-5003-5242
Ball dia. mm (in.)	0.3 (0.012)	0.5 (0.020)	0.7 (0.028)
Length mm (in.)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)
Stem dia. mm (in.)	0.2 (0.008)	0.4 (0.016)	0.5 (0.020)
EWL* mm (in.)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Mass grammes	23.84	23.84	23.84

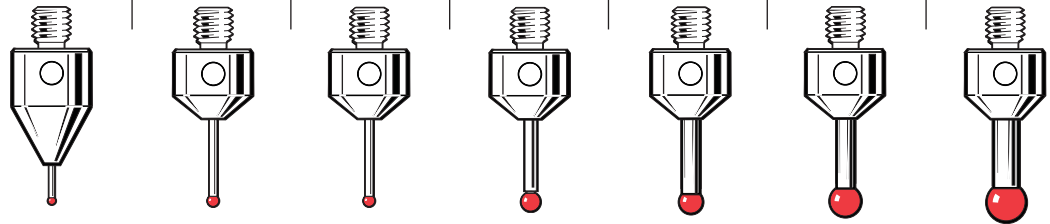
75 mm range



Ruby ball styli (tungsten carbide stems)

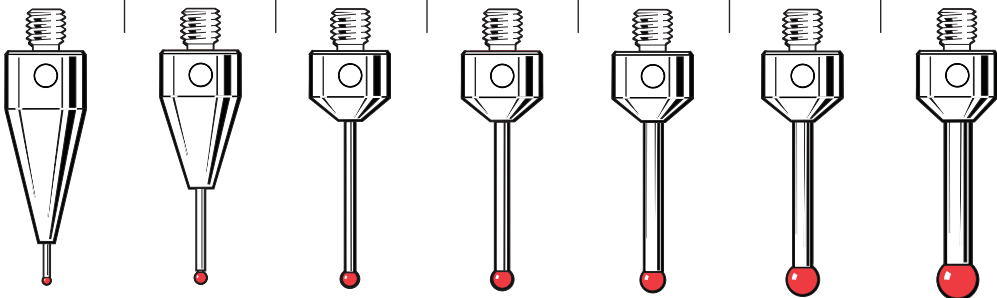
Ball material		Part number						
Ruby		A-5003-5204	A-5003-5205	A-5003-5206	A-5003-5207	A-5003-5208	A-5003-5209	A-5003-5210
Silicon nitride				A-5003-5732			A-5003-5733	
Zirconia				A-5003-5746			A-5003-5747	
A	Ball dia. mm (in.)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
B	Length mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
C	Stem dia. mm (in.)	0.7 (0.028)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	3.0 (0.12)
D	EWL* mm (in.)	5.0 (0.20)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.9 (0.47)	11.5 (0.45)
	Mass grammes	6.52	4.68	4.70	4.84	5.12	5.19	6.06

20 mm range



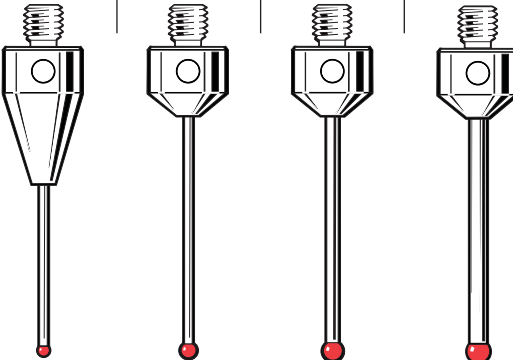
Part number	A-5003-5214	A-5003-5215	A-5003-5216	A-5003-5217	A-5003-5218	A-5003-5219	A-5003-5220	
A	Ball dia. mm (in.)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
B	Length mm (in.)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
C	Stem dia. mm (in.)	0.7 (0.028)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	3.0 (0.12)
D	EWL* mm (in.)	5.0 (0.20)	12.0 (0.48)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)	21.9 (0.86)	21.5 (0.85)
	Mass grammes	9.01	7.28	4.81	5.14	5.58	5.64	7.10

30 mm range



Part number	A-5003-5221	A-5003-5222	A-5003-5223	A-5003-5224	
A	Ball dia. mm (in.)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)
B	Length mm (in.)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)
C	Stem dia. mm (in.)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)
D	EWL* mm (in.)	22.0 (0.87)	31.0 (1.23)	31.0 (1.23)	31.0 (1.23)
	Mass grammes	7.39	4.93	5.40	6.04

40 mm range

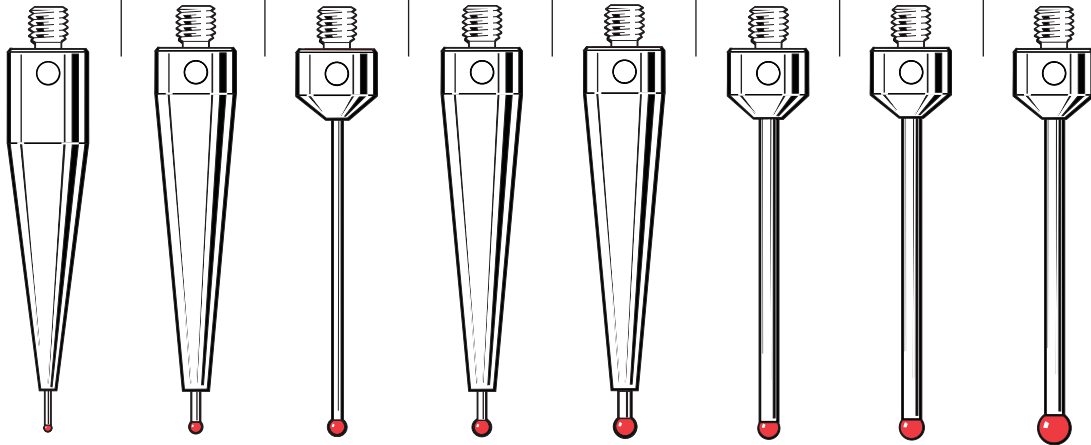


*Effective working length

Ruby ball styli (tungsten carbide stems – <5 mm ball diameter)

Part number	A-5003-5228	A-5003-5229	A-5003-5230	A-5003-5231	A-5003-5233	A-5003-5232	A-5003-5234	A-5003-5235
A Ball dia. mm (in.)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)
B Length mm (in.)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
C Stem dia. mm (in.)	0.7 (0.028)	1.0 (0.04)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)
D EWL* mm (in.)	5.0 (0.20)	5.0 (0.20)	41.0 (1.62)	5.0 (0.20)	5.0 (0.20)	41.0 (1.62)	41.0 (1.62)	41.9 (1.65)
Mass grammes	15.81	14.82	5.05	14.85	14.94	6.48	6.50	6.55

50 mm range



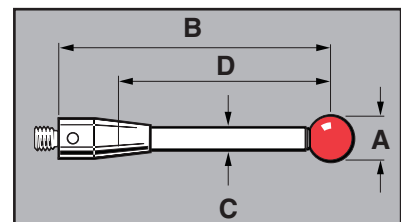
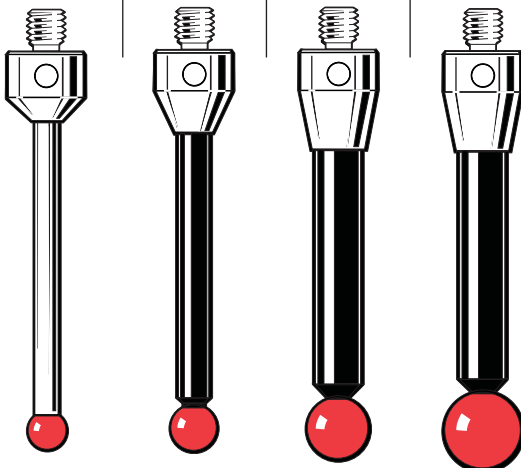
M5 threaded stylus range

1.3

Ruby ball styli (≥5 mm ball diameter)

Ball material	Part number			
Ruby	A-5003-5236	A-5003-5237	A-5003-5238	A-5003-5239
Silicon nitride		A-5003-5734		
Zirconia			A-5003-5748	
	Tungsten carbide	Carbon fibre	Carbon fibre	Carbon fibre
A Ball dia. mm (in.)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
B Length mm (in.)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
C Stem dia. mm (in.)	3.0 (0.12)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
D EWL* mm (in.)	41.5 (1.63)	39.5 (1.55)	39.5 (1.55)	44.5 (1.75)
Mass grammes	9.19	6.10	7.96	8.91

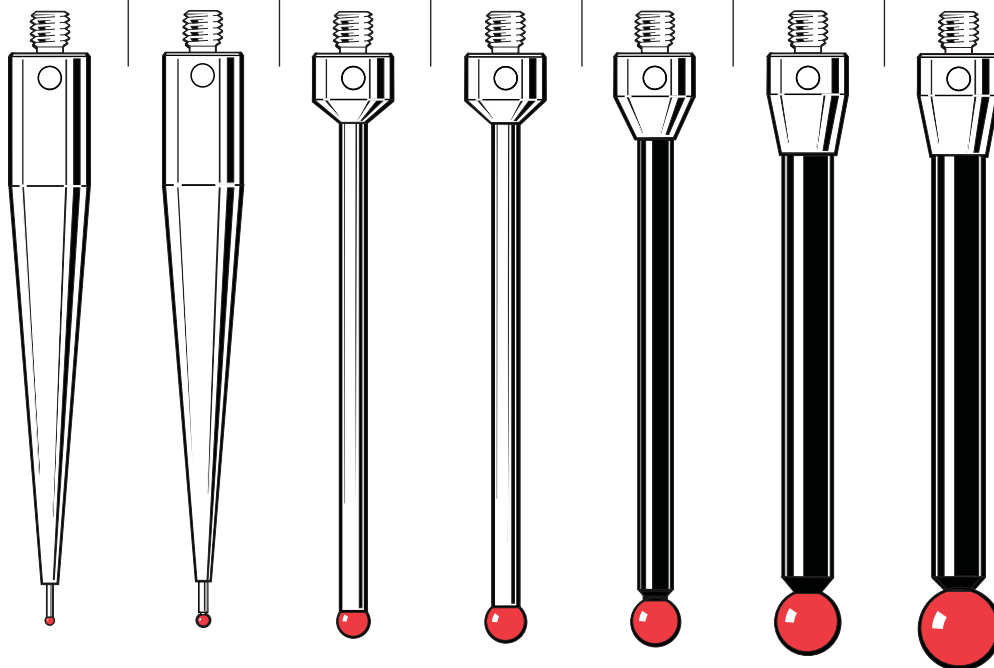
50 mm range



Ruby ball styli (1 mm – 10 mm ball diameter)

Part number		A-5003-5243 Tungsten carbide	A-5003-5244 Tungsten carbide	A-5003-5248 Tungsten carbide	A-5003-5249 Tungsten carbide	A-5003-5250 Carbon fibre	A-5003-5251 Carbon fibre	A-5003-5252 Carbon fibre
A	Ball dia. mm (in.)	1.0 (0.04)	1.5 (0.06)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
B	Length mm (in.)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)
C	Stem dia. mm (in.)	0.7 (0.028)	1.0 (0.04)	3.0 (0.12)	3.0 (0.12)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
D	EWL* mm (in.)	5.0 (0.20)	5.0 (0.20)	66.0 (2.60)	66.0 (2.60)	65.1 (2.56)	64.5 (2.54)	69.5 (2.74)
	Mass grammes	23.86	23.90	11.61	11.80	6.59	9.06	10.01

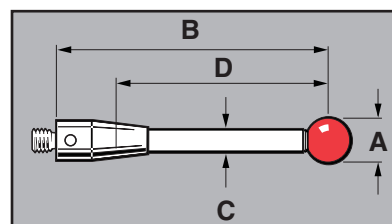
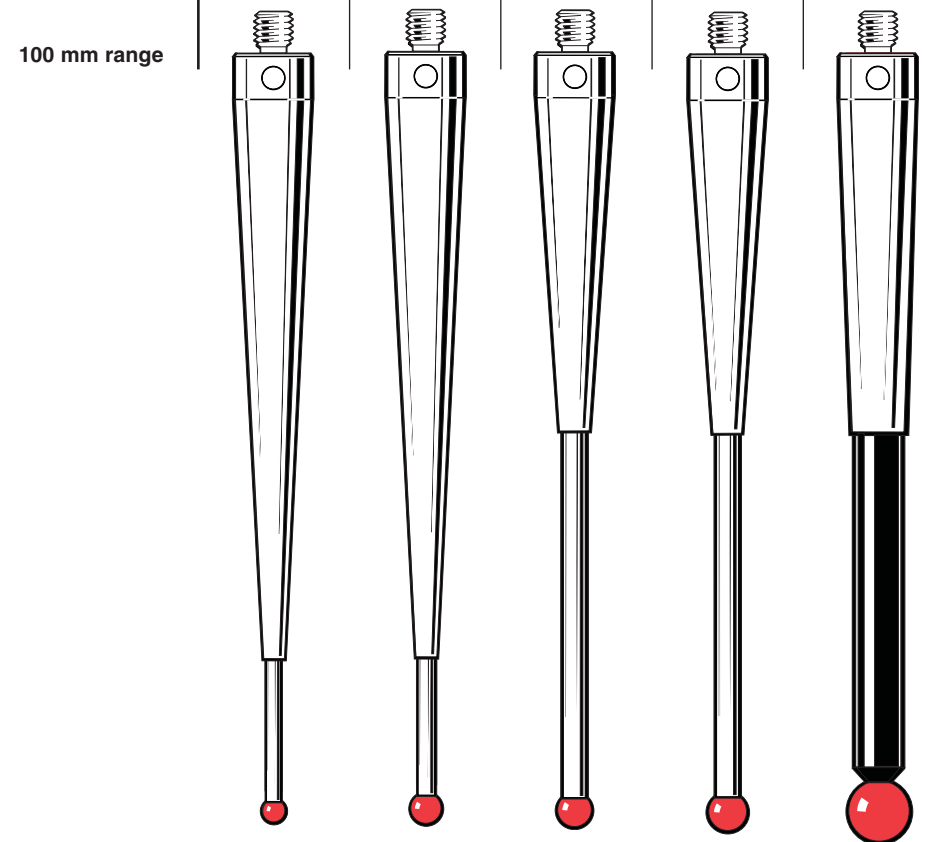
75 mm range



*Effective working length

Ruby ball styli (≤50 mm EWL)

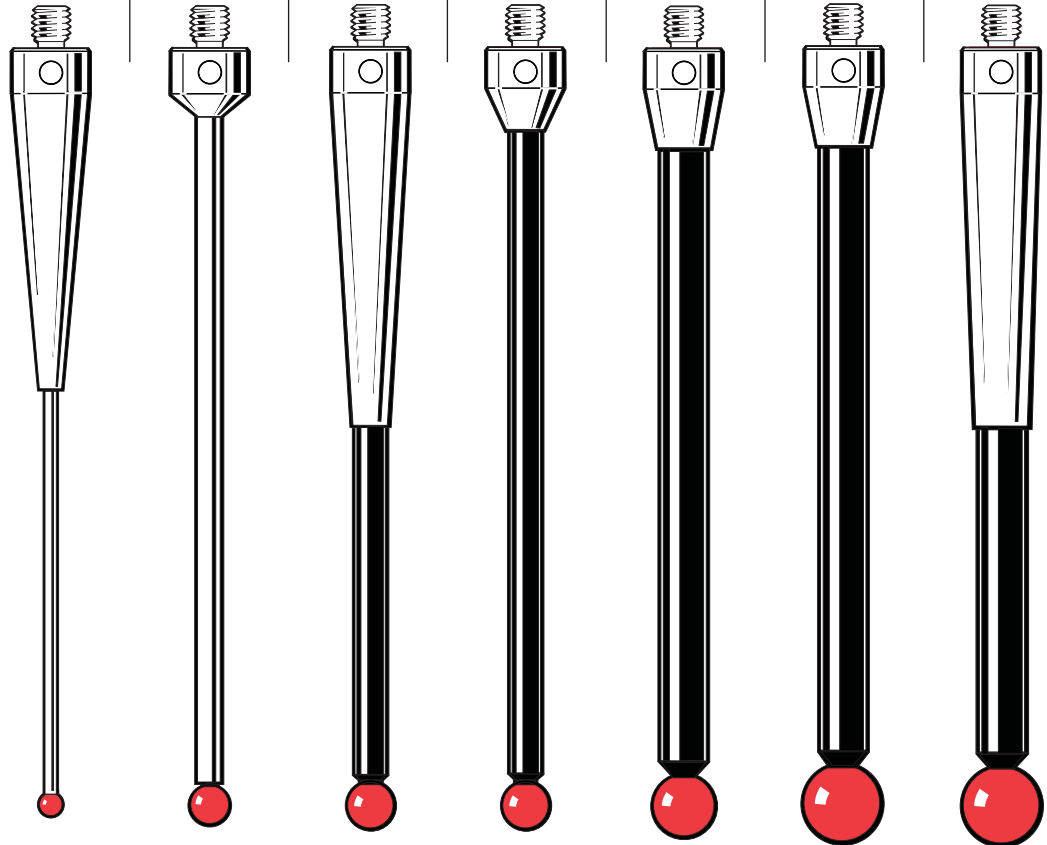
Ball material		Part number				
		A-5003-5253	A-5003-5255	A-5003-5256	A-5003-5257	A-5003-5261
Ruby						
Silicon nitride						
Zirconia						
		Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Carbon fibre
A	Ball dia. mm (in.)	3.0 (0.12)	4.0 (0.16)	4.0 (0.16)	5.0 (0.20)	8.0 (0.32)
B	Length mm (in.)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
C	Stem dia. mm (in.)	2.0 (0.08)	2.0 (0.08)	3.0 (0.12)	3.0 (0.12)	6.0 (0.24)
D	EWL* mm (in.)	20.0 (0.79)	30.5 (1.20)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
	Mass grammes	25.71	25.75	23.07	23.31	22.97



Ruby ball styli (>50 mm EWL)

Ball material		Part number						
Ruby		A-5003-5254	A-5003-5258	A-5003-5259	A-5003-5260	A-5003-5262	A-5003-5264	A-5003-5263
Silicon nitride				A-5003-5735				
Zirconia				A-5003-5749				
		Tungsten carbide	Tungsten carbide	Carbon fibre	Carbon fibre	Carbon fibre	Carbon fibre	Carbon fibre
A	Ball dia. mm (in.)	3.0 (0.12)	5.0 (0.20)	6.0 (0.24)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)	10.0 (0.40)
B	Length mm (in.)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
C	Stem dia. mm (in.)	1.5 (0.06)	3.0 (0.12)	4.0 (0.16)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)	6.0 (0.24)
D	EWL* mm (in.)	55.0 (2.17)	91.0 (3.59)	58.9 (2.32)	90.1 (3.55)	89.5 (3.52)	94.5 (3.72)	95.5 (3.76)
	Mass grammes	16.30	14.40	19.66	7.08	10.17	11.11	23.91

100 mm range

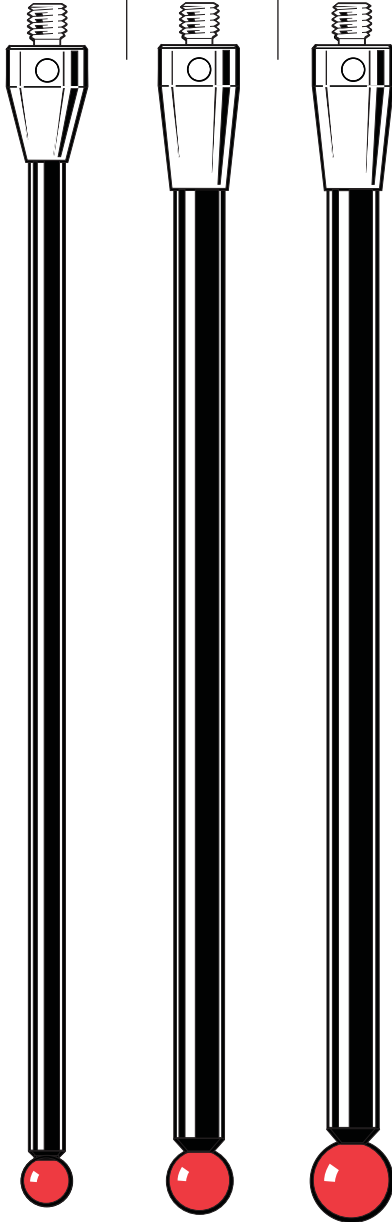


*Effective working length

Ruby ball styli (carbon fibre stems)

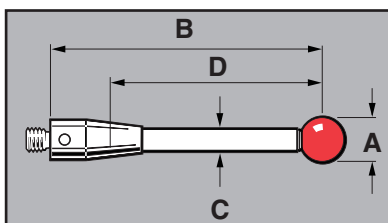
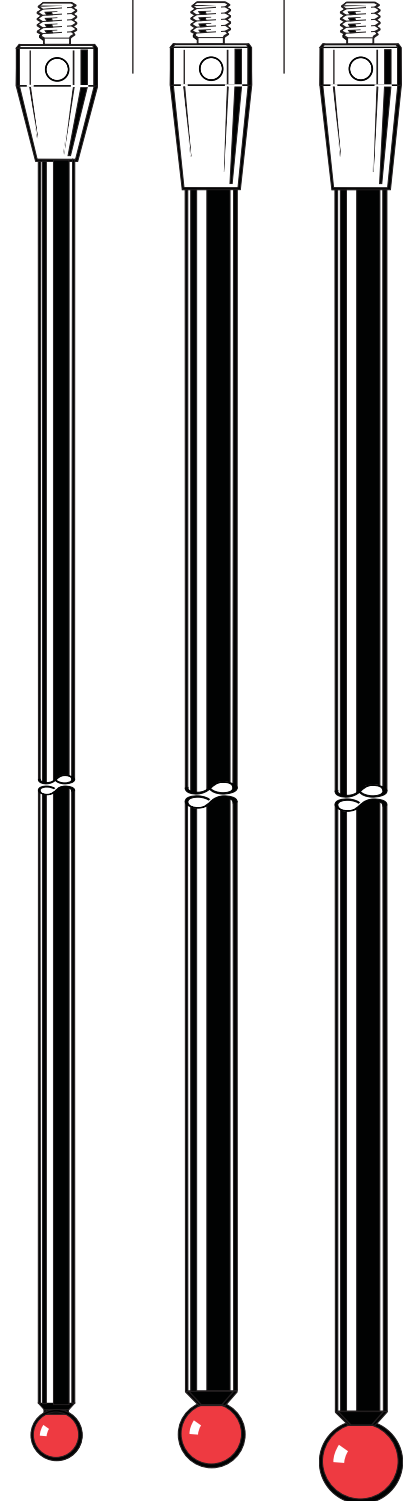
Part number	A-5003-5265	A-5003-5266	A-5003-5267
A Ball dia. mm (in.)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
B Length mm (in.)	150.0 (5.91)	150.0 (5.91)	150.0 (5.91)
C Stem dia. mm (in.)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
D EWL* mm (in.)	137.0 (5.39)	135.0 (5.31)	144.5 (5.69)
Mass grammes	9.09	13.71	14.66

150 mm range



A-5003-5268	A-5003-5269	A-5003-5270
6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
200.0 (7.88)	200.0 (7.88)	200.0 (7.88)
4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
187.0 (7.36)	180.0 (7.09)	194.5 (7.66)
10.07	15.92	16.87

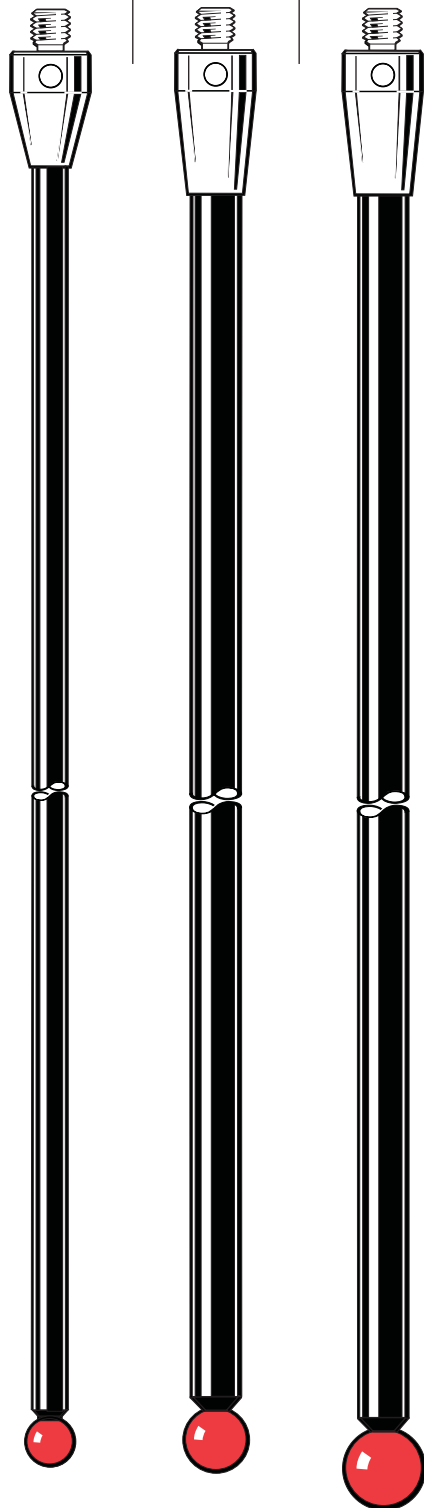
200 mm range



Ruby ball styli (carbon fibre stems)

Part number	A-5003-5271	A-5003-5272	A-5003-5273
A Ball dia. mm (in.)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
B Length mm (in.)	300.0 (11.82)	300.0 (11.82)	300.0 (11.82)
C Stem dia. mm (in.)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
D EWL* mm (in.)	287.0 (11.30)	280.0 (11.03)	294.5 (11.59)
Mass grammes	12.02	20.33	21.28

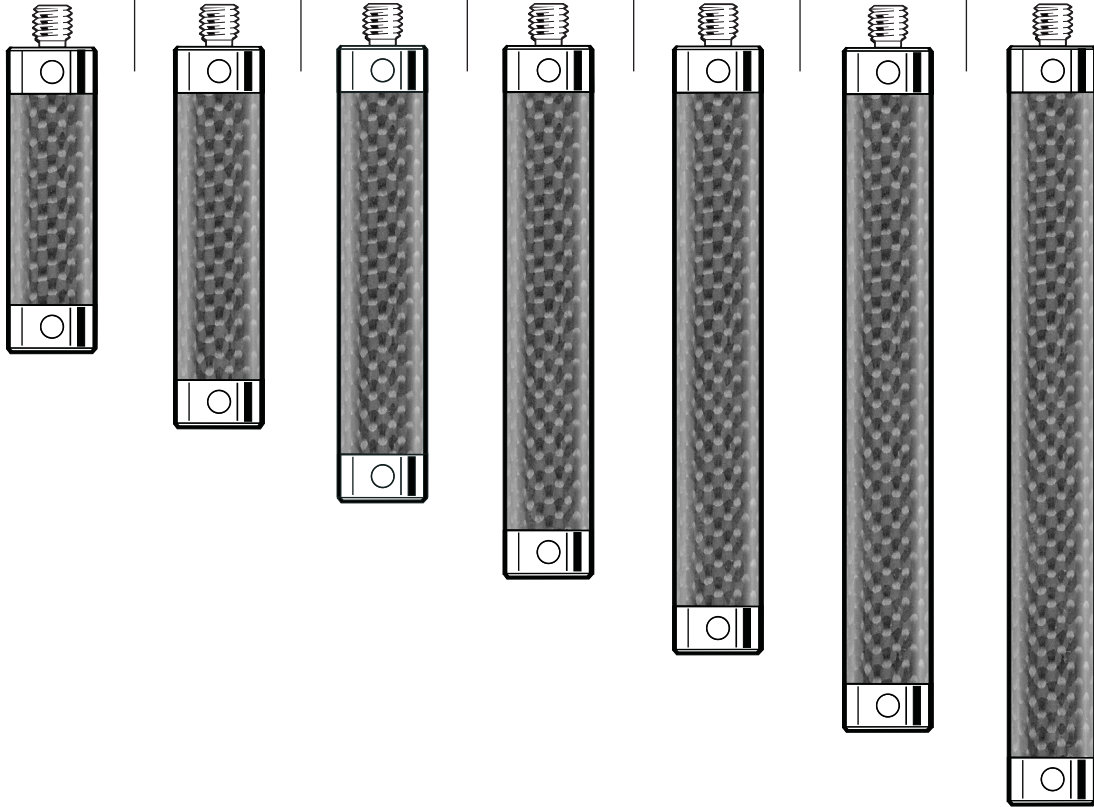
300 mm range



* Effective working length

Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 11 mm)

Part number	A-5555-0647	A-5555-0648	A-5555-0649	A-5555-0623	A-5555-0650	A-5555-0651	A-5555-0652
Length mm (in.)	40.0 (1.58)	50.0 (1.97)	60.0 (2.37)	70.0 (2.76)	80.0 (3.15)	90.0 (3.55)	100.0 (3.94)
Stem dia. mm (in.)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)
Mass grammes	7.6	8.3	9.0	9.7	10.4	11.1	11.8

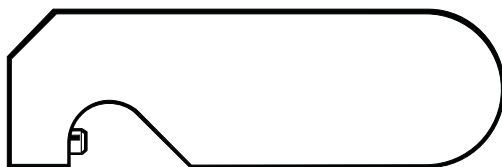


M5 threaded stylus range
1.9

M5 extension tools

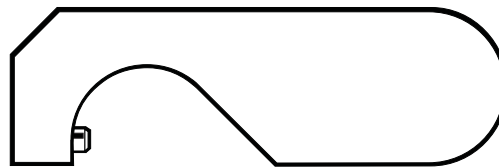
A-5003-6134

For M5 threaded extensions with 11 mm (0.44 in.) stem diameter



A-5003-6135

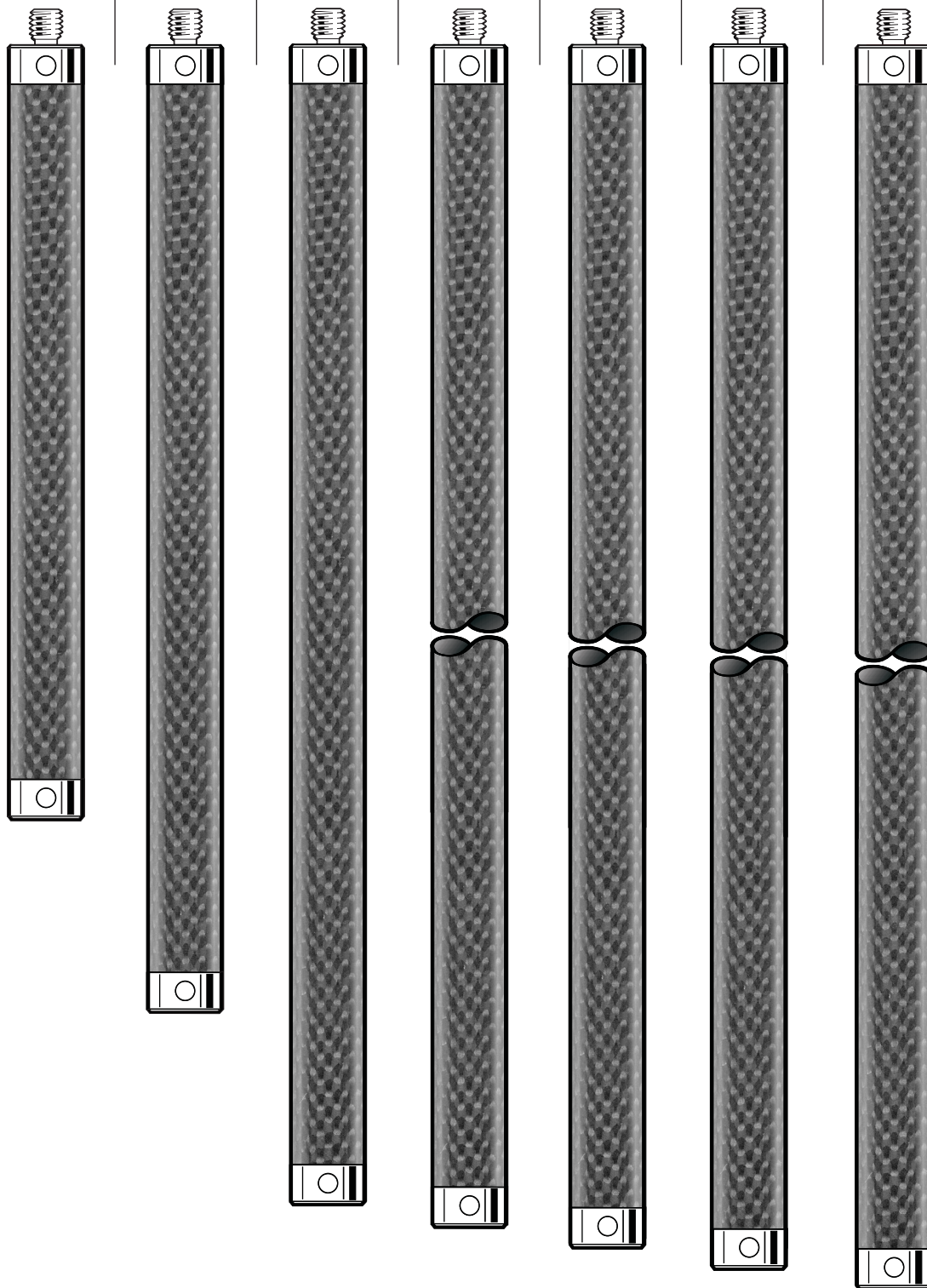
For M5 threaded extensions with 20 mm (0.79 in.) stem diameter



These tools are designed to fit styli extensions to Renishaw probes without causing internal damage

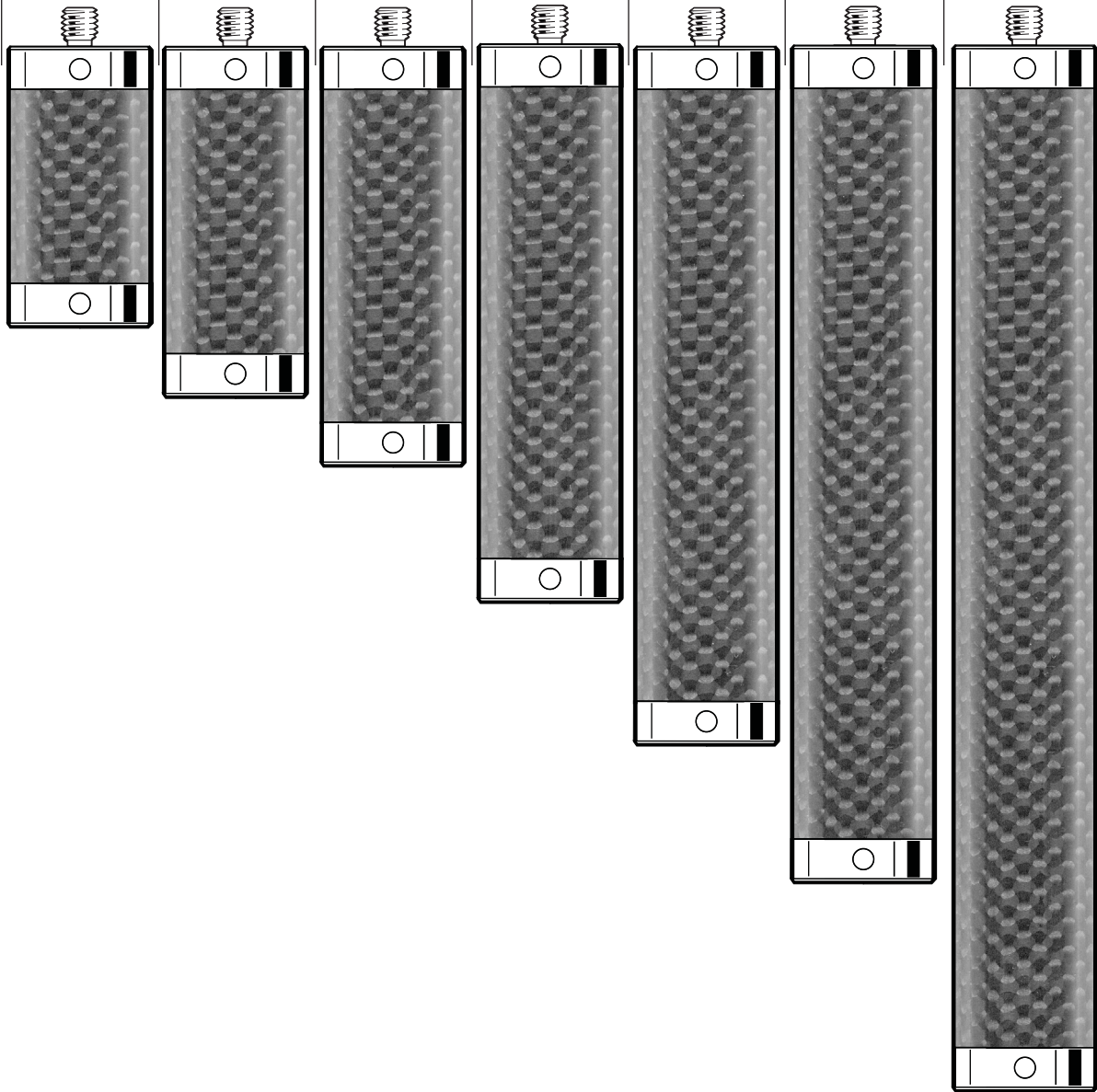
Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 11 mm)

Part number	A-5555-0425	A-5555-0424	A-5555-0653	A-5555-0654	A-5555-0655	A-5555-0642	A-5555-0656
Length mm (in.)	120.0 (4.73)	150.0 (5.91)	180.0 (7.09)	200.0 (7.88)	250.0 (9.85)	300.0 (11.82)	400.0 (15.76)
Stem dia. mm (in.)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)
Mass grammes	13.2	15.4	17.5	18.9	22.4	25.9	33.0



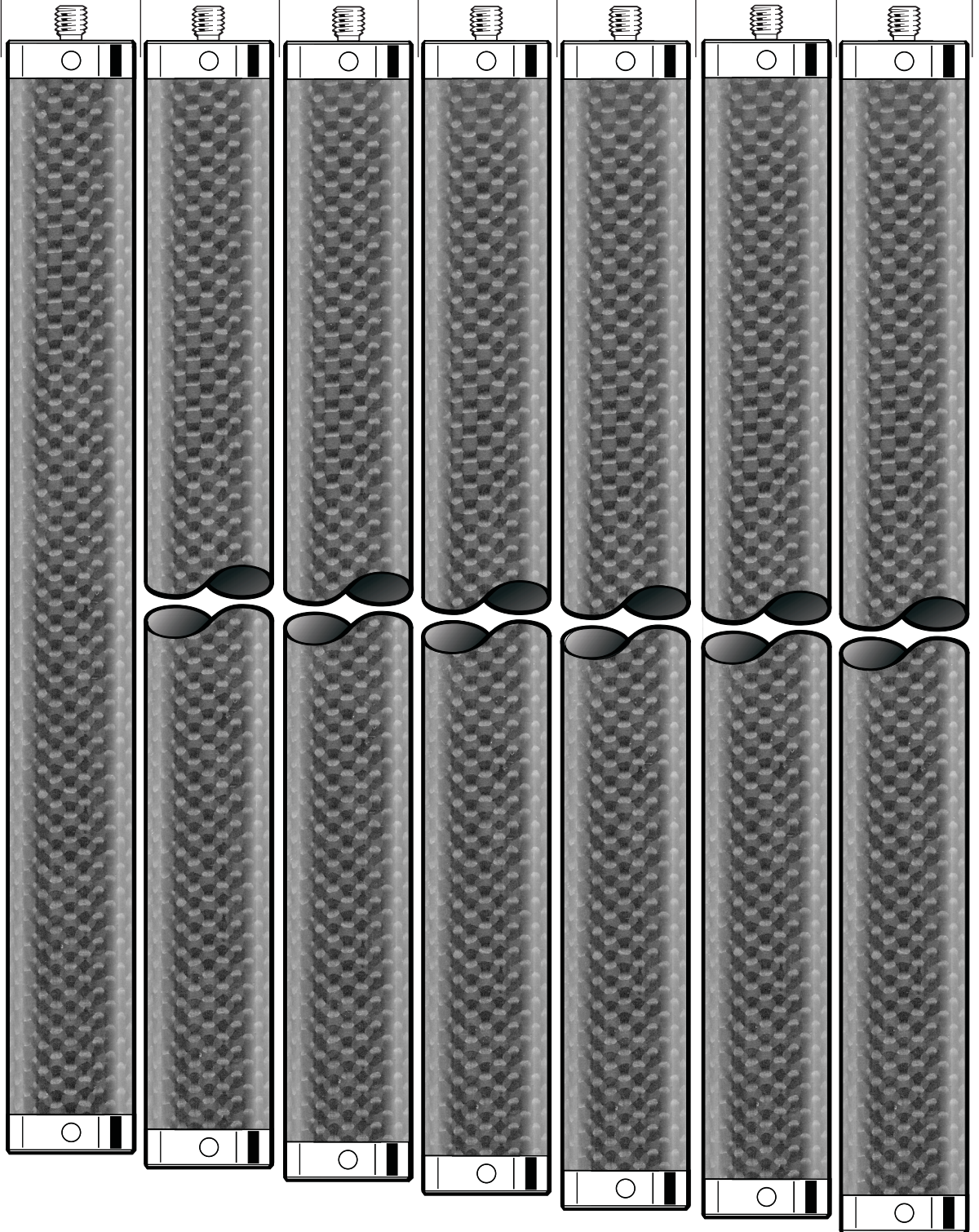
Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 20 mm)

Part number	A-5555-0620	A-5555-0657	A-5555-0658	A-5555-0621	A-5555-0659	A-5555-0660	A-5555-0661
Length mm (in.)	40.0 (1.58)	50.0 (1.97)	60.0 (2.37)	80.0 (3.15)	100.0 (3.94)	120.0 (4.73)	150.0 (5.91)
Stem dia. mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
Mass grammes	23.8	25.1	26.5	29.3	32.1	34.9	39.0



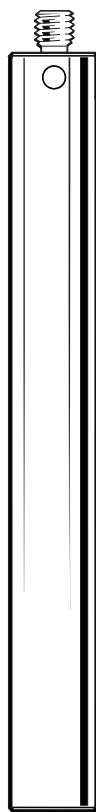
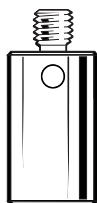
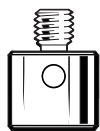
Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 20 mm)

Part number	A-5555-0662	A-5555-0663	A-5555-0427	A-5555-0664	A-5555-0665	A-5555-0667	A-5555-0668
Length mm (in.)	180.0 (7.09)	200.0 (7.88)	250.0 (9.85)	300.0 (11.82)	400.0 (15.76)	500.0 (19.70)	600.0 (23.64)
Stem dia. mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
Mass grammes	43.2	46.0	52.9	59.9	73.8	87.7	101.5



Stylus extensions – stainless steel

Part number	A-5555-0142	A-5555-0140	A-5555-0669	A-5555-0670	A-5555-0136
Length mm (in.)	10.0 (0.40)	20.0 (0.79)	30.0 (1.19)	50.0 (1.97)	100.0 (3.94)
Stem dia. mm (in.)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)
Mass grammes	6.0	13.0	20.0	34.8	73.0


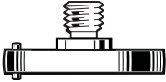
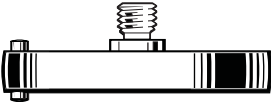
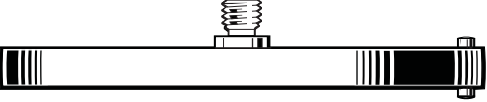


Stylus extensions – aluminium

Part number	A-5555-0671	A-5555-0127	A-5555-0125
Length mm (in.)	50.0 (1.97)	100.0 (3.94)	200.0 (7.88)
Stem dia. mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
Mass grammes	47.2	50.0	85.0



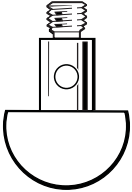
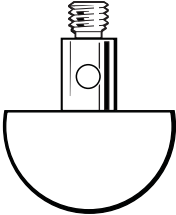
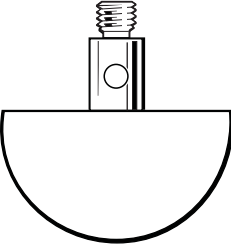
Disc styli – silver steel

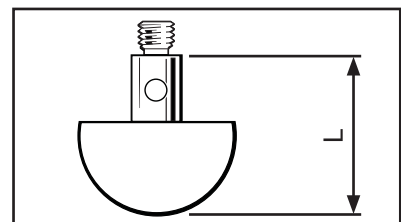
Part number	A-5003-5288	A-5003-5289	A-5003-5290	A-5003-5291
Disc dia. mm (in.)	12.0 (0.48)	21.0 (0.83)	35.0 (1.38)	63.5 (2.51)
Disc depth mm (in.)	3.0 (0.12)	3.0 (0.12)	5.0 (0.20)	5.0 (0.20)
Roller depth mm (in.)	5.0 (0.20)	5.0 (0.20)	8.0 (0.31)	8.0 (0.31)
Mass grammes	2.52	5.23	14.0	51.0
				

M5 threaded stylus range

1.15

Hemispherical styli – ceramic

Part number	A-5003-5275	A-5003-5276	A-5003-5277
Ball dia. mm (in.)	16.0 (0.63)	22.0 (0.87)	30.0 (1.18)
Length mm (in.)	19.5 (0.77)	20.5 (0.81)	24.5 (0.96)
Mass grammes	7.0	14.0	19.7
			



Custom stylus request form

Please complete the form and send it back to us. Our design team will review the supplied information and present you with a solution for your application.

Customer _____	Customer email _____
Company _____	Customer telephone _____

Stylus information

Type of stylus (please indicate on diagrams below) Other* * Please attach as much information as possible, including a sketch of the stylus.

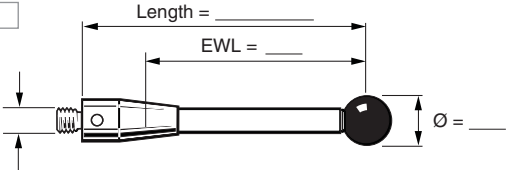
Thread M2 M3 M4 M5 Other _____

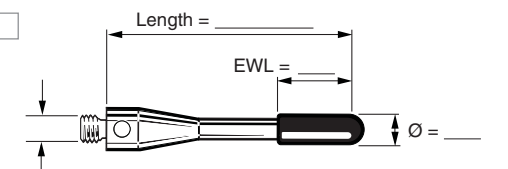
Tip material Ruby Silicon nitride Stainless steel Tungsten carbide Zirconia

Stem material Carbon fibre Ceramic Stainless steel Tungsten carbide

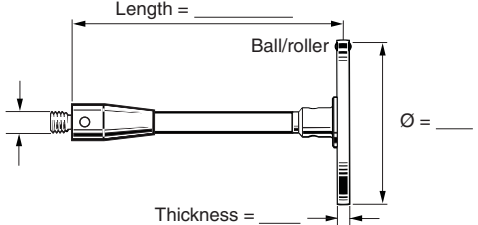
Quantity of styli required _____

Type of stylus Dimensions given are: Metric (mm) Imperial (in)

A 

B 

C Is there a ball/roller? Yes No
 If yes, please specify height of ball/roller: _____



Probe information	
Type of probe _____	Orientation Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/>
Material being measured _____	Application Scanning <input type="checkbox"/> Inspection <input type="checkbox"/>

Additional information

About Renishaw

Renishaw is an established world leader in engineering technologies, with a strong history of innovation in product development and manufacturing. Since its formation in 1973, the company has supplied leading-edge products that increase process productivity, improve product quality and deliver cost-effective automation solutions.

A worldwide network of subsidiary companies and distributors provides exceptional service and support for its customers.

Products include:

- Additive manufacturing and vacuum casting technologies for design, prototyping, and production applications
- Dental CAD/CAM scanning systems and supply of dental structures
- Encoder systems for high-accuracy linear, angle and rotary position feedback
- Fixturing for CMMs (co-ordinate measuring machines) and gauging systems
- Gauging systems for comparative measurement of machined parts
- High-speed laser measurement and surveying systems for use in extreme environments
- Laser and ballbar systems for performance measurement and calibration of machines
- Medical devices for neurosurgical applications
- Probe systems and software for job set-up, tool setting and inspection on CNC machine tools
- Raman spectroscopy systems for non-destructive material analysis
- Sensor systems and software for measurement on CMMs
- Styli for CMM and machine tool probe applications

For worldwide contact details, visit www.renishaw.com/contact



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