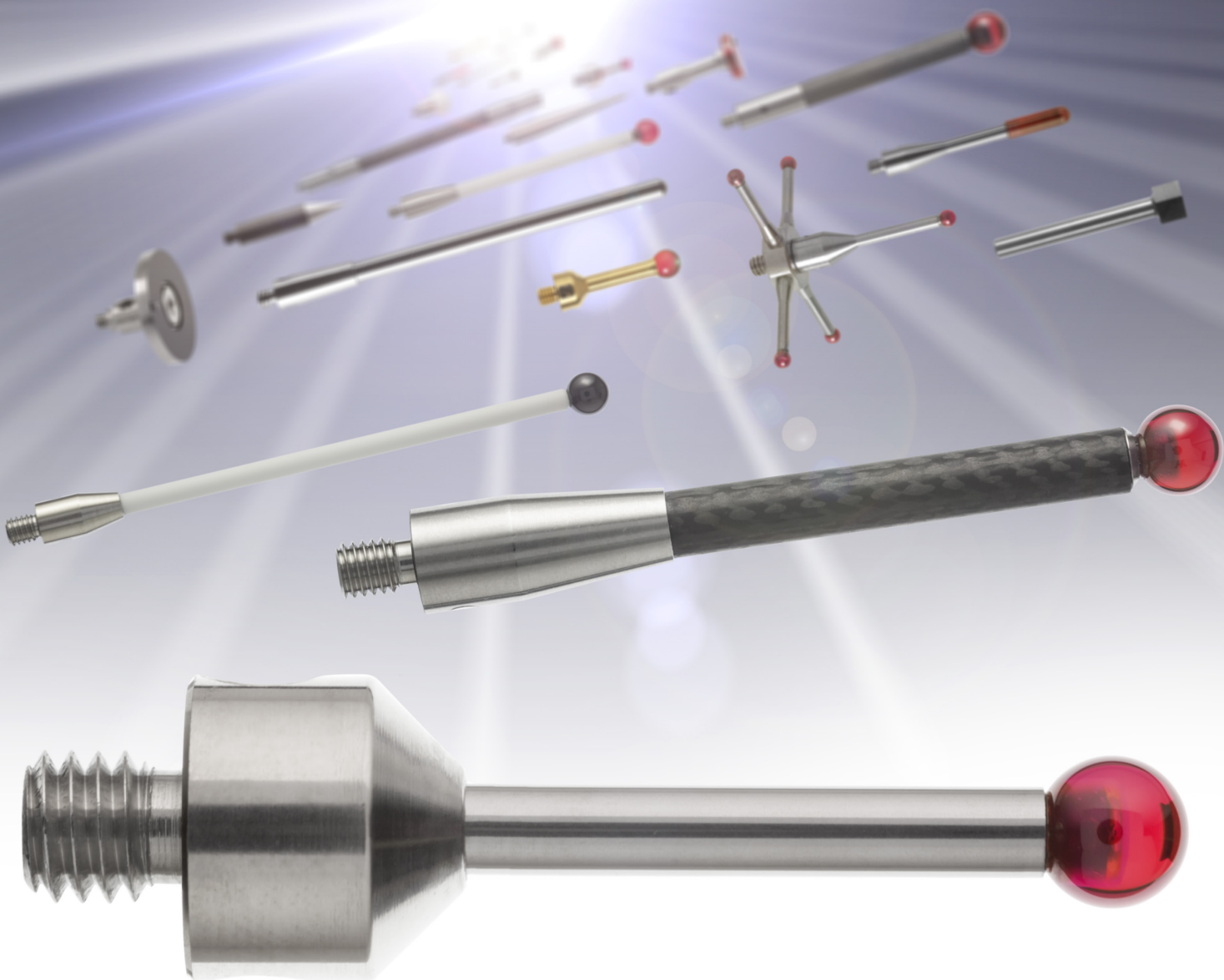


M3 threaded stylus range

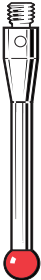


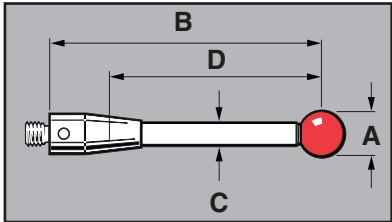
Ruby ball styli (stainless steel stems)

Ball material		Part number			
Ruby		A-5004-7401	A-5004-0421	A-5004-0422	A-5004-0423
Silicon nitride					
Zirconia					
A	Ball dia. mm (in.)	1.0 (0.04)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)
B	Length mm (in.)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)
C	Stem dia. mm (in.)	0.7 (0.028)	1.5 (0.06)	1.5 (0.06)	2.5 (0.10)
D	EWL* mm (in.)	4.0 (0.16)	6.0 (0.24)	6.5 (0.25)	7.0 (0.28)
	Mass grammes	0.6	0.5	0.5	0.7
					

M3 threaded
stylus range

1.1

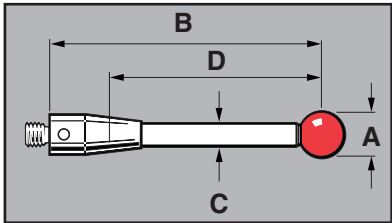
Ball material		Part number						
Ruby		A-5000-3551	A-5000-3552	A-5000-3553	A-5000-7606	A-5000-7630	A-5000-3554	A-5000-7648
Silicon nitride		A-5004-1979	A-5003-5723	A-5003-6257	A-5003-5061	A-5003-6695	A-5004-1980	A-5004-1981
Zirconia		A-5004-2955	A-5003-5736	A-5004-2956	A-5003-5737	A-5003-9500	A-5004-2957	A-5004-2958
A	Ball dia. mm (in.)	1.0 (0.04)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	4.0 (0.16)	5.0 (0.20)
B	Length mm (in.)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)	31.0 (1.23)	31.0 (1.23)
C	Stem dia. mm (in.)	0.7 (0.028)	1.4 (0.05)	1.5 (0.06)	2.5 (0.10)	2.5 (0.10)	2.5 (0.10)	3.5 (0.14)
D	EWL* mm (in.)	4.0 (0.16)	9.6 (0.38)	14.7 (0.58)	17.2 (0.68)	21.0 (0.83)	27.0 (1.07)	31.0 (1.23)
	Mass grammes	1.0	1.0	1.0	1.3	1.5	2.5	3.0
21 mm – 31 mm range								



Ruby ball styli (tungsten carbide stems)

Ball material		Part number					
Ruby Silicon nitride Zirconia		A-5000-7632	A-5004-2442	A-5003-0050	A-5003-3676	A-5003-0054	A-5004-7402
		A-5004-2023		A-5004-1198		A-5004-1982	
		A-5004-2959		A-5004-2960		A-5004-2961	
A	Ball dia. mm (in.)	0.5 (0.020)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)
B	Length mm (in.)	21.0 (0.83)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.2 (0.80)	20.0 (0.79)
C	Stem dia. mm (in.)	0.4 (0.02)	0.7 (0.028)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)
D	EWL* mm (in.)	2.0 (0.08)	12.5 (0.50)	12.5 (0.50)	12.5 (0.50)	12.5 (0.50)	14.0 (0.55)
	Mass grammes	1.0	0.7	0.8	1.1	1.3	1.4
20 mm – 30 mm range							

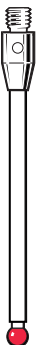
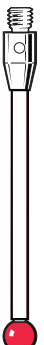
Ball material		Part number			
Ruby Silicon nitride Zirconia		A-5003-0051	A-5003-0052	A-5003-0055	A-5003-0057
		A-5003-8091	A-5003-5724	A-5004-1983	A-5004-1984
		A-5004-2962	A-5003-5738	A-5004-2963	A-5003-6766
A	Ball dia. mm (in.)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)
B	Length mm (in.)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
C	Stem dia. mm (in.)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)
D	EWL* mm (in.)	22.5 (0.89)	22.8 (0.90)	22.5 (0.89)	24.0 (0.94)
	Mass grammes	0.93	1.32	1.81	1.83
20 mm – 30 mm range					



Ruby ball styli (tungsten carbide stems)

Ball material		Part number							
Ruby		A-5003-0053	A-5003-0056	A-5003-0058	A-5003-0060	A-5003-0062	A-5003-0059	A-5003-0061	A-5003-0063
Silicon nitride		A-5004-1985	A-5004-1986	A-5004-1987	A-5004-1195	A-5004-1718	A-5004-1199	A-5004-1988	A-5004-1201
Zirconia		A-5003-2043	A-5004-2964	A-5004-2965	A-5003-6767	A-5004-2966	A-5004-2968	A-5003-6768	A-5003-7665
A	Ball dia. mm (in.)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
B	Length mm (in.)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
C	Stem dia. mm (in.)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)
D	EWL* mm (in.)	32.5 (1.28)	32.5 (1.28)	33.7 (1.33)	36.0 (1.42)	40.0 (1.58)	43.7 (1.72)	46.0 (1.82)	50.0 (1.97)
	Mass grammes	1.58	2.28	2.30	2.38	3.50	2.78	2.85	4.10
40 mm – 50 mm range									

Ruby ball styli (ceramic stems)

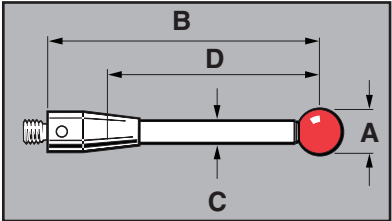
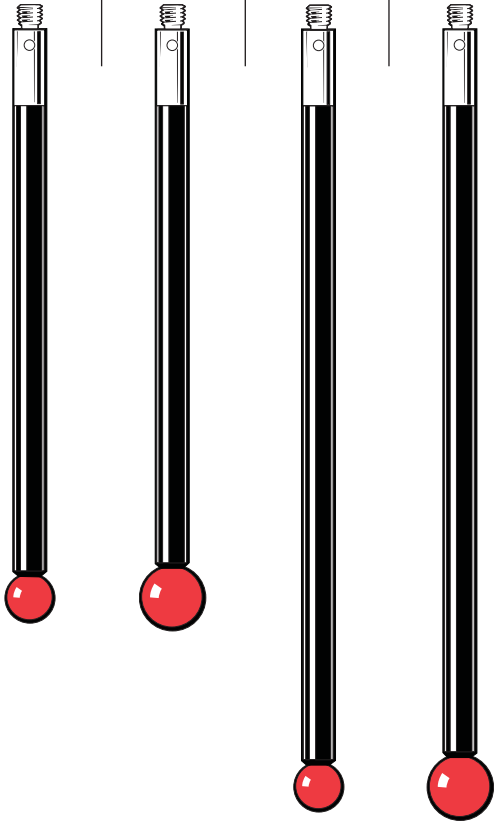
Ball material									
Ruby		A-5004-3646	A-5004-2545	A-5004-6040	A-5004-0154	A-5004-6735	A-5003-0067	A-5003-0068	A-5003-0069
Silicon nitride							A-5004-1989	A-5003-5725	A-5004-1990
Zirconia							A-5004-2969	A-5003-5739	A-5004-2970
A	Ball dia. mm (in.)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
B	Length mm (in.)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
C	Stem dia. mm (in.)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)
D	EWL* mm (in.)	32.5 (1.28)	32.5 (1.28)	32.5 (1.28)	36.0 (1.42)	40.0 (1.58)	43.7 (1.72)	46.0 (1.82)	50.0 (1.97)
	Mass grammes	0.9	1.1	1.1	1.2	1.7	1.17	1.24	1.33
50 mm range									

*Effective working length

Ruby ball styli (carbon fibre stems)

Ball material		Part number			
Ruby		A-5003-4860	A-5003-4862	A-5003-4861	A-5003-4863
Silicon nitride		A-5003-5726	A-5004-1991	A-5003-5727	A-5004-5466
Zirconia		A-5003-5740	A-5003-6771	A-5003-5741	A-5003-6778
A	Ball dia. mm (in.)	6.0 (0.24)	8.0 (0.32)	6.0 (0.24)	8.0 (0.32)
B	Length mm (in.)	75.0 (2.96)	75.0 (2.96)	100.0 (3.94)	100.0 (3.94)
C	Stem dia. mm (in.)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)
D	EWL* mm (in.)	75.0 (2.96)	75.0 (2.96)	100.0 (3.94)	100.0 (3.94)
Mass grammes		2.40	2.98	2.89	3.47

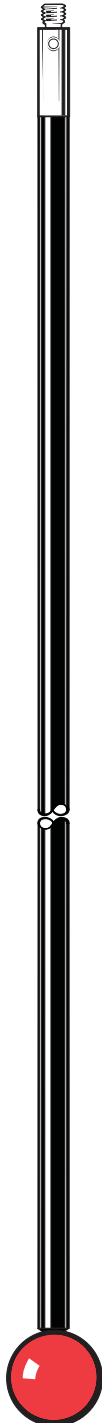
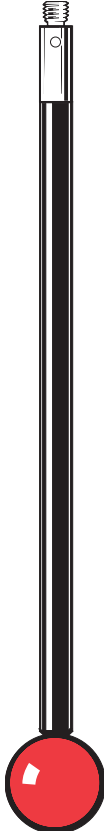
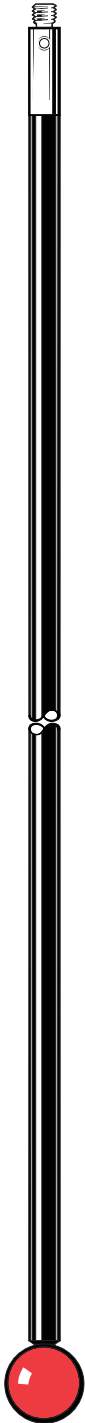
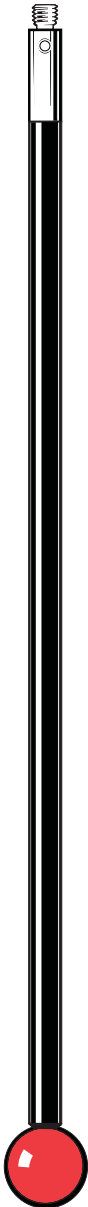
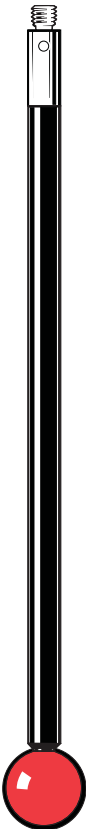
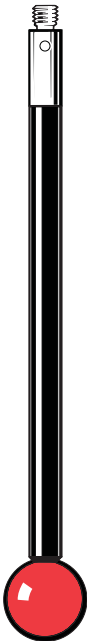
75 mm –
100 mm range



Ruby ball styli (carbon fibre stems)

Ball material		Part number						
A	Ruby	A-5003-7057	A-5003-7056	A-5003-7055	A-5003-7054	A-5003-7445	A-5003-7446	A-5003-7447
	Silicon nitride	A-5004-1992	A-5004-1993	A-5004-1994	A-5004-1995	A-5004-1996**	A-5004-1997**	A-5004-1998**
	Zirconia	A-5004-2972	A-5003-9495	A-5004-2973	A-5004-2974	A-5004-2975**	A-5004-2976**	A-5004-2977**
A	Ball dia. mm (in.)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	12.0 (0.48)	12.0 (0.48)	12.0 (0.48)
B	Length mm (in.)	75.0 (2.96)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)
C	Stem dia. mm (in.)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)
D	EWL* mm (in.)	75.0 (2.96)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)
	Mass grammes	4.05	4.53	5.49	6.47	5.9	6.9	7.9

75 mm – 200 mm
range



* Effective working length
** Specials

Stylus extensions (stainless steel)

Part number	A-5004-7609	A-5004-7583	A-5004-7584
Length mm (in.)	10.0 (0.40)	20.0 (0.79)	35.0 (1.38)
Stem dia. mm (in.)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)
Mass grammes	0.9	1.6	2.9



Stylus extension (ceramic)

Part number	A-5003-0075
Length mm (in.)	50.0 (1.97)
Stem dia. mm (in.)	4.0 (0.16)
Mass grammes	2.95



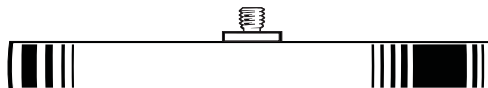
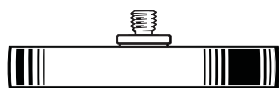
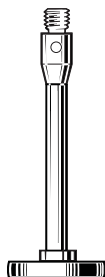
Stylus extensions (carbon fibre)

Part number	A-5003-4864	A-5003-4865
Length mm (in.)	75.0 (2.96)	100.0 (3.94)
Stem dia. mm (in.)	4.5 (0.17)	4.5 (0.17)
Mass grammes	2.53	3.02

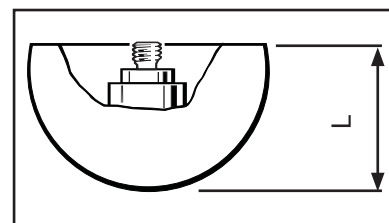
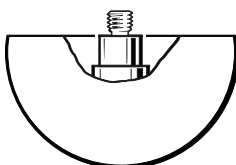
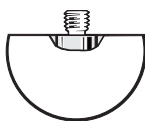


Disc and hollow ball styli

Part number	A-5000-3615 Silver steel	A-5000-7612 Silver steel	A-5000-7669 Carbon steel
Disc dia mm (in.)	12.7 (0.50)	35.0 (1.38)	63.5 (2.51)
Disc depth mm (in.)	2.2 (0.09)	5.0 (0.20)	6.0 (0.24)
Stem dia. mm (in.)	3.5 (0.14)	N/A	N/A
Mass grammes	4.0	10.0	45.0

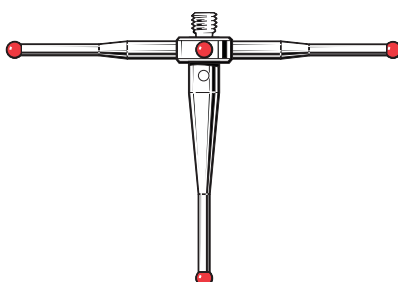
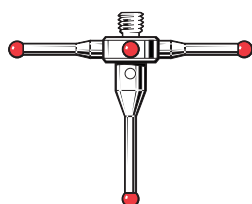


Part number	A-5004-3728 Ceramic	A-5000-7814 Ceramic	A-5003-7098 Ceramic
Disc dia mm (in.)	18.0 (0.71)	30.0 (1.19)	30.0 (1.19)
Disc depth mm (in.)	12.0 (0.48)	17.0 (0.67)	1.5 (0.06)
Stem dia. mm (in.)	N/A	N/A	4.0 (0.16)
Mass grammes	4	13.0	3.6



Star styli (fixed)

Part number	A-5003-0076 Stainless steel	A-5003-0077 Stainless steel
Span mm (in.)	30.0 (1.19)	50.0 (1.97)
Ball mm (in.)	2.0 (0.08)	2.0 (0.08)
Stem dia. mm (in.)	1.4 (0.05)	1.4 (0.05)
EWL* mm (in.)	11.0 (0.44)	11.0 (0.44)
Mass grammes	2.38	5.25



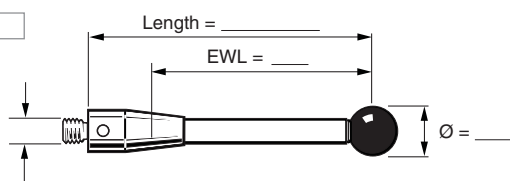
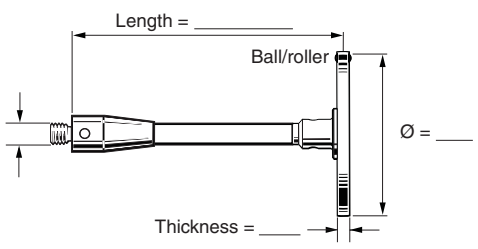
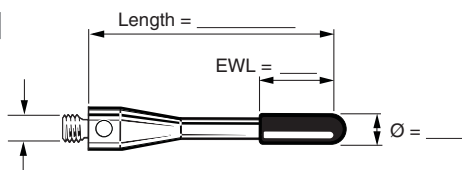
*Effective working length

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

Probe information	
Type of probe _____	Orientation Vertical ☐ Horizontal ☐
Material being measured _____	Application Scanning ☐ Inspection ☐

Additional information

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- 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

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