

# M3 threaded stylus range

4.1



**SP25M with two FCR25s on a modular rail system**

Renishaw's probing systems are designed to give optimum performance using styli from Renishaw's comprehensive range. The following probes all use M3 threaded styli, however with suitable adaptors, other thread sizes may be used.

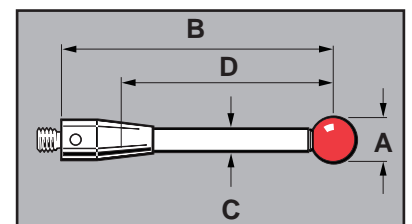
- TP1
- TP6
- REVO™
- SP25M

### Ruby ball styli (stainless steel stems)

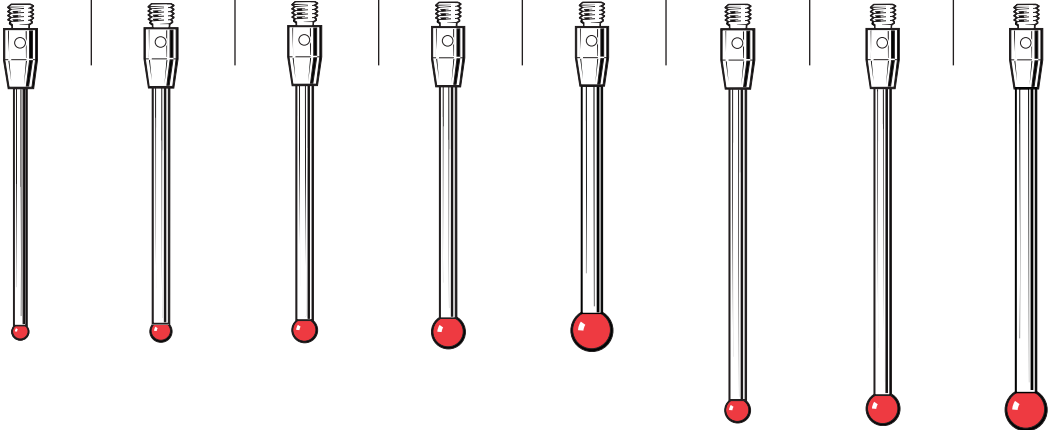
Ball material		Part number						
Ruby		A-5000-3551	A-5000-3552	A-5000-3553	A-5000-7606	A-5000-7630	A-5000-3554	A-5000-7648
Silicon nitride		A-5004-1979	A-5003-5723	A-5003-6257	A-5003-5061	A-5003-6695	A-5004-1980	A-5004-1981
Zirconia		A-5004-2955	A-5003-5736	A-5004-2956	A-5003-5737	A-5003-9500	A-5004-2957	A-5004-2958
<b>A</b>	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>B</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)
<b>C</b>	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)
<b>D</b>	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
<b>21 mm - 31 mm range</b>								

### Ruby ball styli (tungsten carbide stems)

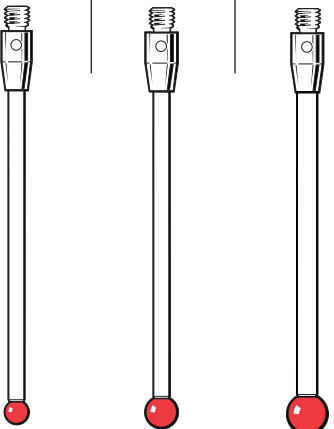
Ball material		Part number						
Ruby		A-5000-7632	A-5003-0050	A-5003-0054	A-5003-0051	A-5003-0052	A-5003-0055	A-5003-0057
Silicon nitride		A-5004-2023	A-5004-1198	A-5004-1982	A-5003-8091	A-5003-5724	A-5004-1983	A-5004-1984
Zirconia		A-5004-2959	A-5004-2960	A-5004-2961	A-5004-2962	A-5003-5738	A-5004-2963	A-5003-6766
<b>A</b>	Ball dia. mm (in.)	0.5 (0.020)	1.5 (0.06)	2.5 (0.10)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)
<b>B</b>	Length mm (in.)	21.0 (0.83)	20.0 (0.79)	20.2 (0.80)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
<b>C</b>	Stem dia. mm (in.)	0.4 (0.02)	1.0 (0.04)	2.0 (0.08)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)
<b>D</b>	EWL* mm (in.)	2.0 (0.08)	12.5 (0.50)	12.5 (0.50)	22.5 (0.89)	22.8 (0.90)	22.5 (0.89)	24.0 (0.94)
	Mass grammes	1.0	0.8	1.3	0.93	1.32	1.81	1.83
<b>20 mm - 30 mm range</b>								



## 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
<b>A</b> 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>B</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)
<b>C</b> 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)
<b>D</b> 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
<b>40 mm - 50 mm range</b>								

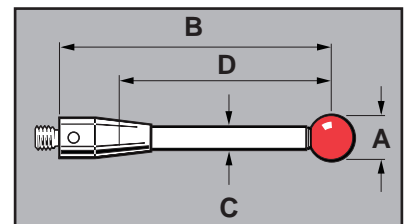
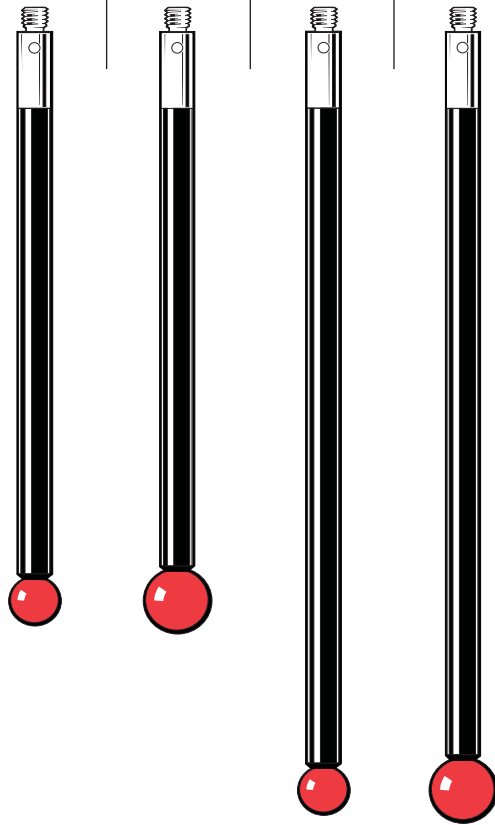
## Ruby ball styli (ceramic stems)

Ruby	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
<b>A</b> Ball dia. mm (in.)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
<b>B</b> Length mm (in.)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
<b>C</b> Stem dia. mm (in.)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)
<b>D</b> EWL* mm (in.)	43.7 (1.72)	46.0 (1.82)	50.0 (1.97)
Mass grammes	1.17	1.24	1.33
<b>50 mm range</b>			

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
<b>A</b> Ball dia. mm (in.)	6.0 (0.24)	8.0 (0.32)	6.0 (0.24)	8.0 (0.32)
<b>B</b> Length mm (in.)	75.0 (2.96)	75.0 (2.96)	100.0 (3.94)	100.0 (3.94)
<b>C</b> Stem dia. mm (in.)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)	4.0 (0.16)
<b>D</b> 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

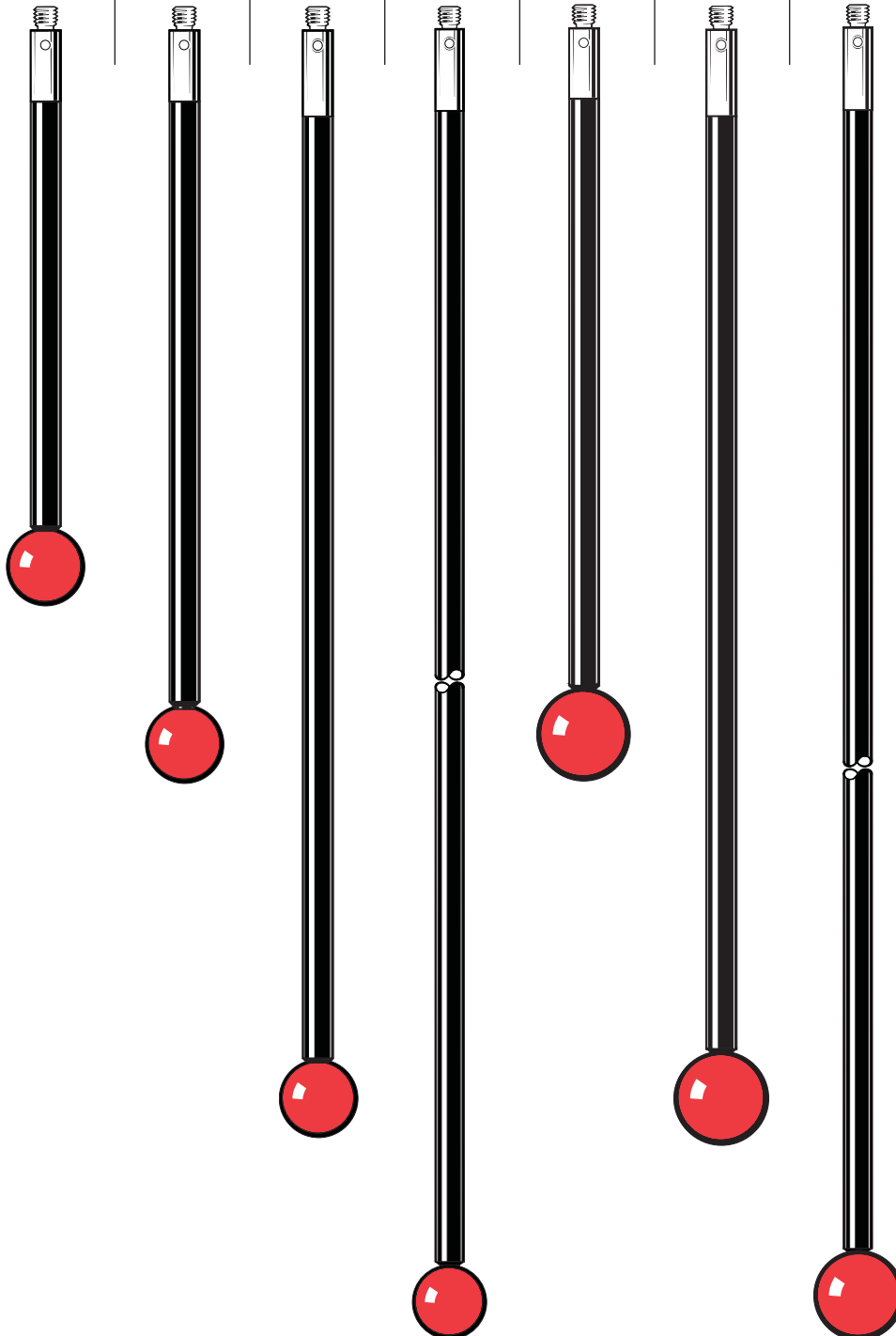
75 mm -  
100 mm range



## Ruby ball styli (carbon fibre stems)

Ball material	Part number							
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	
<b>A</b>	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>B</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)
<b>C</b>	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)
<b>D</b>	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



M3 threaded  
stylus range

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\*Effective working length

Stylus extensions (stainless steel)

Part number	M-5000-7633	M-5000-3592	M-5000-3593
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



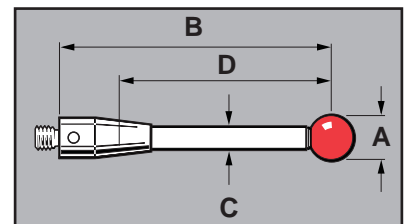
Stylus extensions (carbon fibre)

Part number	A-5003-4864	A-5003-4865
Length mm (in.)	75.0 (2.96)	100.0 (3.94)
Stem dia. mm (in.)	4.0 (0.16)	4.0 (0.16)
Mass grammes	2.53	3.02



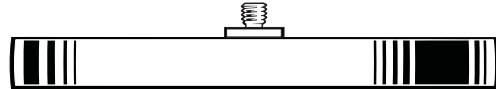
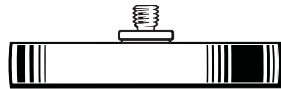
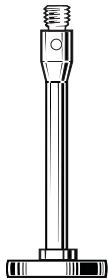
Stylus extension (ceramic)

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



## Disc and hollow ball styli

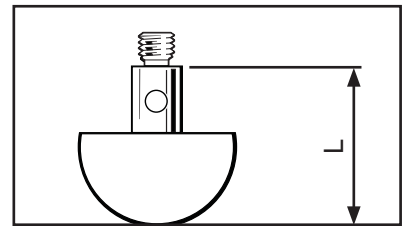
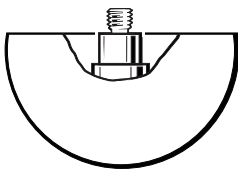
Part number	A-5000-3615 Silver steel	A-5000-7612 Silver steel	A-5000-7669 Carbon steel
Disc dia mm (in.)	12.7 (0.50)	35.0 (1.38)	63.5 (2.51)
Disc depth mm (in.)	2.2 (0.09)	5.0 (0.20)	6.0 (0.24)
Stem dia. mm (in.)	3.5 (0.14)	N/A	N/A
Mass grammes	4.0	10.0	45.0



M3 threaded  
stylus range

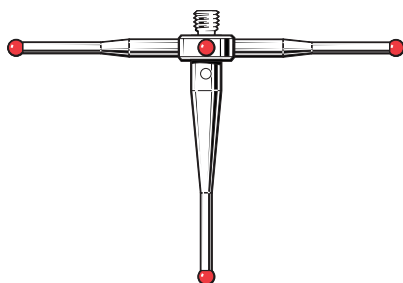
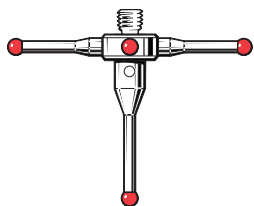
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Part number	A-5000-7814 Ceramic	A-5003-7098 Ceramic
Disc dia mm (in.)	30.0 (1.19)	30.0 (1.19)
Disc depth mm (in.)	17.0 (0.67)	1.5 (0.06)
Stem dia. mm (in.)	N/A	4.0 (0.16)
Mass grammes	13.0	3.6



## Star styli (fixed)

Part number	A-5003-0076	A-5003-0077
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

