


















### Ruby ball styli (stainless steel stems)

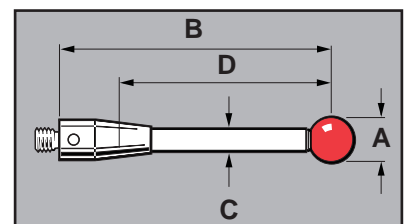
Ball material	Part number									
Ruby	A-5000-7806	A-5000-7802	A-5000-7807	A-5000-7803	A-5000-3604	A-5000-4154	A-5000-4155	A-5000-4156	A-5000-4158	
Silicon nitride	A-5004-0210	A-5004-1918	A-5003-6120	A-5004-1920	A-5003-2138	A-5003-9524	A-5004-1921	A-5004-0237	A-5004-1922	
Zirconia	A-5003-7757	A-5004-0165	A-5003-7723	A-5004-2913	A-5004-2914	A-5003-7261	A-5003-2186	A-5004-2203	A-5004-2915	
<b>A</b>	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)	6.0 (0.24)	8.0 (0.32)
<b>B</b>	Length mm (in.)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	11.0 (0.44)
<b>C</b>	Stem dia. mm (in.)	0.7 (0.028)	0.7 (0.028)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	1.5 (0.06)	2.5 (0.10)	2.5 (0.10)	2.5 (0.10)
<b>D</b>	EWL* mm (in.)	4.5 (0.18)	4.5 (0.18)	6.0 (0.24)	6.5 (0.25)	7.0 (0.28)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	11.0 (0.44)
	Mass grammes	0.3	0.3	0.3	0.3	0.4	0.4	0.7	0.9	1.5
<b>10 mm range</b>										

Ball material	Part number				
Ruby	A-5000-3603	A-5000-7804	A-5000-4160	A-5000-4161	
Silicon nitride	A-5003-1730	A-5004-1923	A-5003-6691	A-5004-0236	
Zirconia	A-5004-2916	A-5004-2917	A-5004-1057	A-5004-2918	
<b>A</b>	Ball dia. mm (in.)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)
<b>B</b>	Length mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
<b>C</b>	Stem dia. mm (in.)	1.4 (0.05)	1.4 (0.05)	1.5 (0.06)	1.5 (0.06)
<b>D</b>	EWL* mm (in.)	14.0 (0.56)	16.4 (0.64)	17.0 (0.67)	20.0 (0.79)
	Mass grammes	0.4	0.4	0.5	0.6
<b>20 mm range</b>					

### Ruby ball styli (tungsten carbide stems)

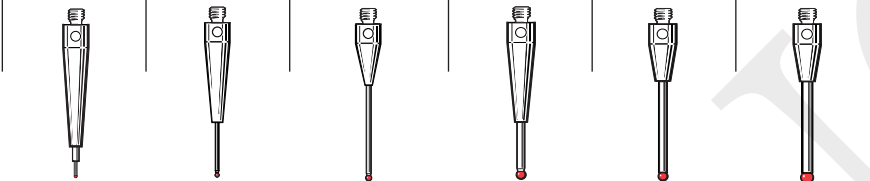
Ball material	Part number				
Ruby	A-5000-7800*	A-5000-7805	A-5000-7801	A-5003-1325	
Silicon nitride	A-5004-2016*	A-5003-2020		A-5004-2018	
Zirconia		A-5003-7672	A-5004-2632	A-5004-2919	
<b>A</b>	Ball dia. mm (in.)	0.3 (0.012)	0.5 (0.020)	0.7 (0.028)	1.0 (0.04)
<b>B</b>	Length mm (in.)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)
<b>C</b>	Stem dia. mm (in.)	0.2 (0.01)	0.4 (0.02)	0.5 (0.020)	0.7 (0.028)
<b>D</b>	EWL* mm (in.)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	4.0 (0.16)
	Mass grammes	0.3	0.3	0.3	0.3
<b>10 mm range</b>					

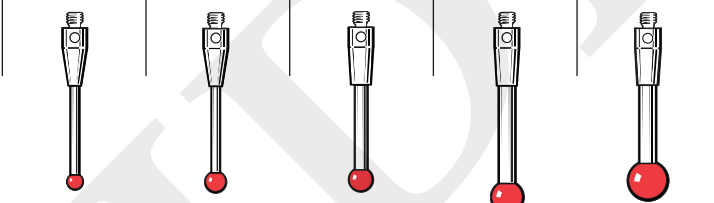
\*Grade 10 balls

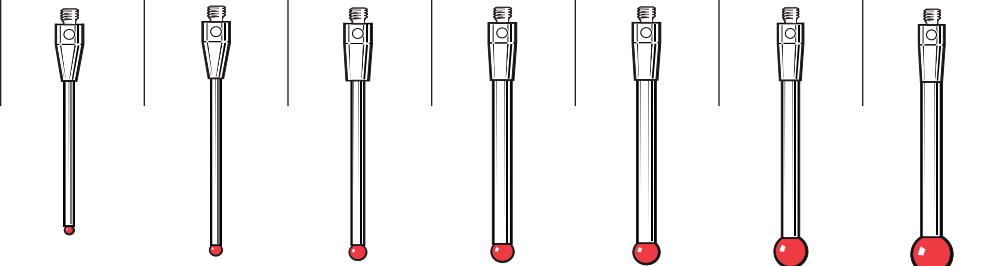


**Ruby ball styli (tungsten carbide stems) – continued**

M2 threaded  
stylus range  
**3.3**

Ball Material		Part number					
Ruby		A-5004-7398	A-5003-1345	A-5003-0577	A-5000-7808	A-5003-0033	A-5003-0034
Silicon nitride		A-5004-7399	A-5004-2019		A-5004-1508	A-5004-2021	A-5004-1925
Zirconia			A-5004-2920	A-5004-1714	A-5004-0435	A-5004-2921	A-5004-2922
<b>A</b>	Ball dia. mm (in.)	0.3 (0.012)	0.5 (0.020)	0.7 (0.028)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)
<b>B</b>	Length mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.76)	20.0 (0.76)
<b>C</b>	Stem dia. mm (in.)	0.2 (0.01)	0.3 (0.012)	0.5 (0.020)	0.7 (0.028)	0.8 (0.04)	1.0 (0.04)
<b>D</b>	EWL* mm (in.)	2.0 (0.08)	7.0 (0.28)	12.0 (0.48)	7.0 (0.28)	12.5 (0.50)	12.5 (0.50)
	Mass grammes	0.50	0.48	0.32	0.50	0.41	0.50
<b>20 mm range</b>							

Ball material		Part number				
Ruby		A-5003-3822	A-5003-1896	A-5003-0938	A-5003-1029	A-5003-0046
Silicon nitride		A-5004-1017	A-5004-1928	A-5004-1021	A-5004-1929	A-5004-1930
Zirconia		A-5004-2923	A-5004-2924	A-5004-0437	A-5004-2925	A-5004-2926
<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)
<b>B</b>	Length mm (in.)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	22.0 (0.87)	20.0 (0.79)
<b>C</b>	Stem dia. mm (in.)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)
<b>D</b>	EWL* mm (in.)	14.0 (0.55)	15.5 (0.62)	17.0 (0.67)	22.0 (0.87)	20.0 (0.79)
	Mass grammes	0.48	0.50	0.77	1.24	1.98
<b>20 mm range</b>						

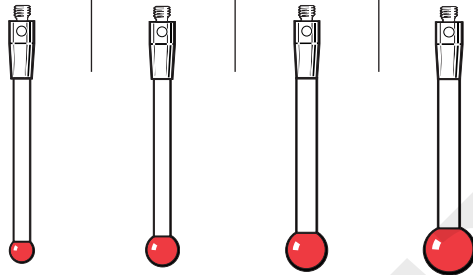
Ball material		Part number						
Ruby		A-5000-8663	A-5003-0035	A-5003-0036	A-5003-0038	A-5003-0040	A-5003-0043	A-5003-0047
Silicon nitride		A-5004-2022	A-5004-1931	A-5003-7573	A-5004-1932	A-5004-1933	A-5004-1944	A-5004-1945
Zirconia		A-5004-2927	A-5004-1711	A-5004-1058	A-5004-2928	A-5004-0264	A-5004-2929	A-5004-2930
<b>A</b>	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>B</b>	Length mm (in.)	27.5 (1.08)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
<b>C</b>	Stem dia. mm (in.)	0.7 (0.028)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)
<b>D</b>	EWL* mm (in.)	20.5 (0.81)	22.5 (0.89)	22.5 (0.89)	22.5 (0.89)	27.0 (1.06)	30.0 (1.19)	30.0 (1.19)
	Mass grammes	0.40	0.58	0.99	1.48	1.49	1.57	2.57
<b>30 mm range</b>								

\*Effective working length

### Ruby ball styli (ceramic stems)

Ball material	Part number				
Ruby	A-5003-4177	A-5003-1370	A-5003-4779	A-5003-4780	
Silicon nitride	A-5004-1946	A-5004-1952	A-5004-1953	A-5004-1954	
Zirconia	A-5004-2931	A-5004-2932	A-5004-2933	A-5004-2934	
<b>A</b>	Ball dia. mm (in.)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b>	Length mm (in.)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
<b>C</b>	Stem dia. mm (in.)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)
<b>D</b>	EWL* mm (in.)	27.0 (1.06)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
	Mass grammes	0.44	0.68	0.93	1.11

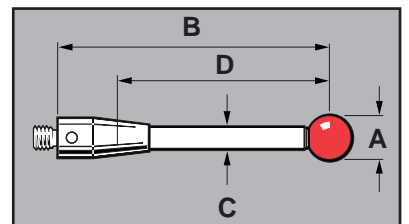
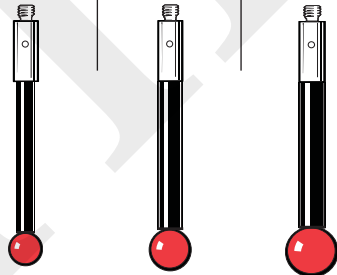
30 mm range



### Ruby ball styli (carbon fibre stems)

Ball material	Part number			
Ruby	A-5003-4241	A-5003-4781	A-5003-4782	
Silicon nitride	A-5004-1955	A-5004-1956	A-5004-1957	
Zirconia	A-5004-2935	A-5004-2936	A-5004-0618	
<b>A</b>	Ball dia. mm (in.)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b>	Length mm (in.)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
<b>C</b>	Stem dia. mm (in.)	2.0 (0.08)	3.0 (0.12)	3.0 (0.12)
<b>D</b>	EWL* mm (in.)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
	Mass grammes	0.57	0.79	0.96

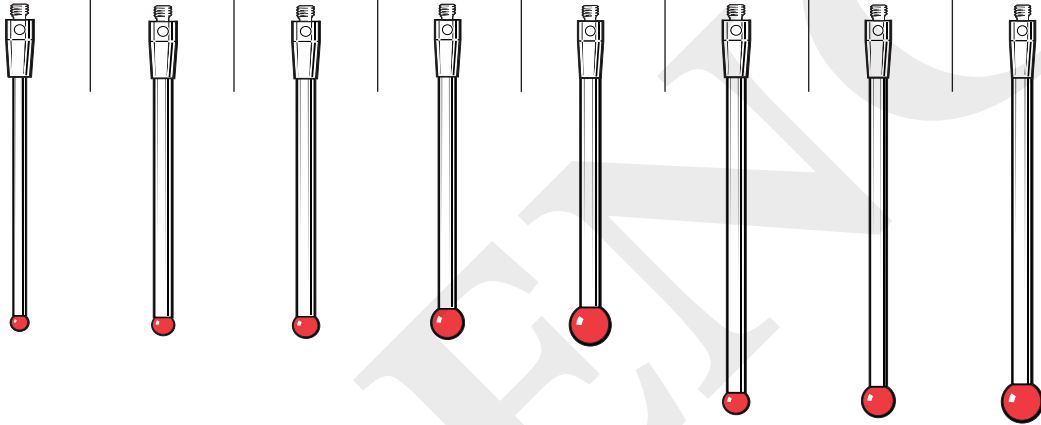
30 mm range



## Ruby ball styli (tungsten carbide stems)

Ball material	Part number								
Ruby	A-5003-0037	A-5003-0039	A-5003-0041	A-5003-0044	A-5003-0048	A-5003-0042	A-5003-0045	A-5003-0049	
Silicon nitride	A-5003-7269	A-5004-1959	A-5004-1960	A-5004-1961	A-5004-1962	A-5004-1963	A-5004-1964	A-5004-1965	
Zirconia	A-5004-2937	A-5004-2938	A-5004-1059	A-5004-2939	A-5004-2940	A-5004-2942	A-5004-2943	A-5004-2944	
<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)	37.0 (1.46)	40.0 (1.58)	40.0 (1.58)	47.0 (1.85)	50.0 (1.97)	50.0 (1.97)
	Mass grammes	1.29	1.95	1.97	2.04	3.17	2.44	2.52	3.75

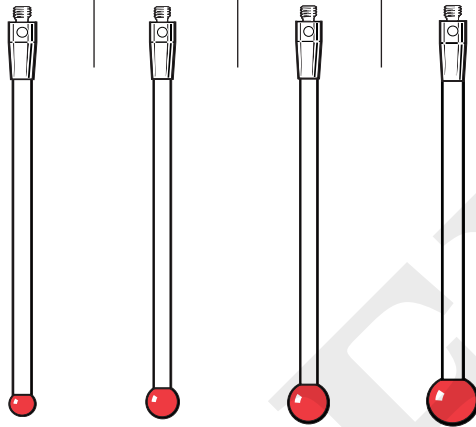
40 mm – 50 mm  
range



### Ruby ball styli (ceramic stems)

Ball material		Part number			
Ruby		A-5003-0064	A-5003-0065	A-5003-0066	A-5003-0470
Silicon nitride		A-5004-1967	A-5004-1519	A-5004-1968	A-5004-1969
Zirconia		A-5004-2945	A-5004-2946	A-5004-2947	A-5004-2948
<b>A</b>	Ball dia. mm (in.)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b>	Length mm (in.)	50.0 (1.97)	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)	2.5 (0.10)
<b>D</b>	EWL* mm (in.)	47.0 (1.85)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
	Mass grammes	0.83	0.91	1.31	1.49

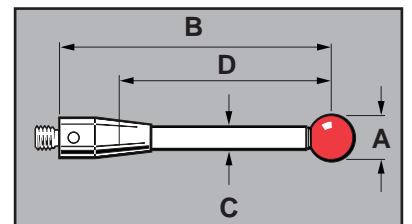
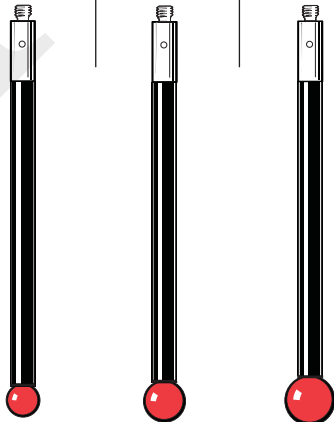
50 mm range



### Ruby ball styli (carbon fibre stems)

Ball material		Part number		
Ruby		A-5003-2285	A-5003-2286	A-5003-2287
Silicon nitride		A-5004-1970	A-5004-1971	A-5004-1972
Zirconia		A-5004-1331	A-5004-1330	A-5004-1329
<b>A</b>	Ball dia. mm (in.)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<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.)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)
<b>D</b>	EWL* mm (in.)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
	Mass grammes	1.00	1.10	1.20

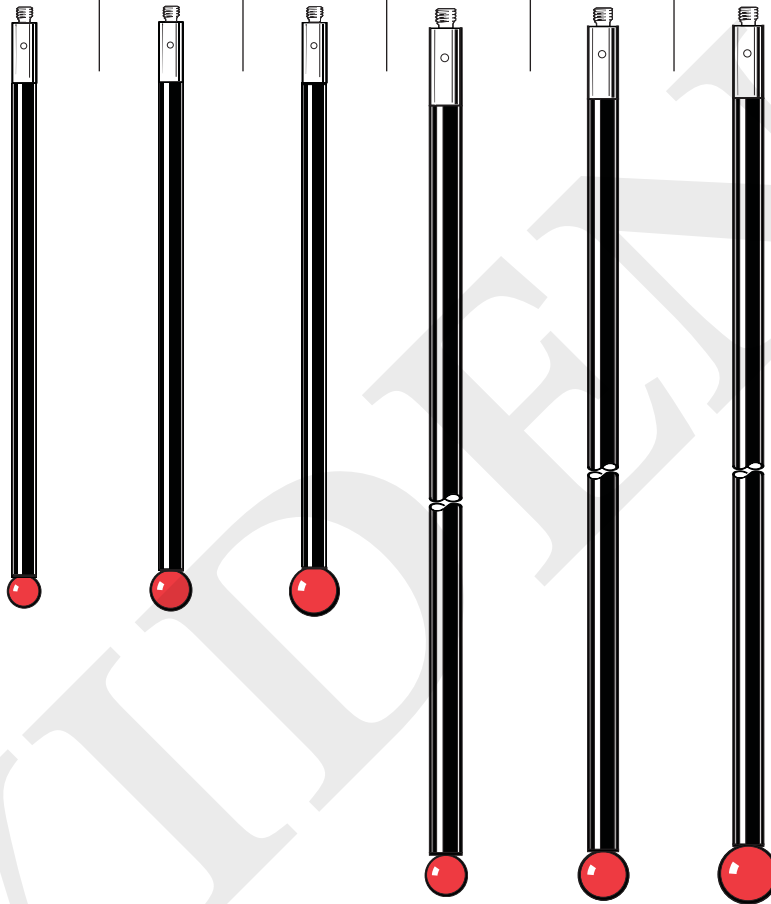
50 mm range



**Ruby ball styli (carbon fibre stems) – continued**

Ball material	Part number						
Ruby	A-5003-4784	A-5003-4785	A-5003-4786	A-5003-2289	A-5003-2290	A-5003-2291	
Silicon nitride	A-5004-1973	A-5004-1974	A-5004-1975	A-5004-1976	A-5004-1977	A-5004-1978	
Zirconia	A-5004-2949	A-5004-2950	A-5004-2951	A-5004-2952	A-5004-2953	A-5004-2954	
<b>A</b>	Ball dia. mm (in.)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b>	Length mm (in.)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
<b>C</b>	Stem dia. mm (in.)	2.0 (0.8)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)
<b>D</b>	EWL* mm (in.)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
	Mass grammes	0.75	1.35	1.45	1.50	1.59	1.78

75 mm –  
100 mm range



\*Effective working length