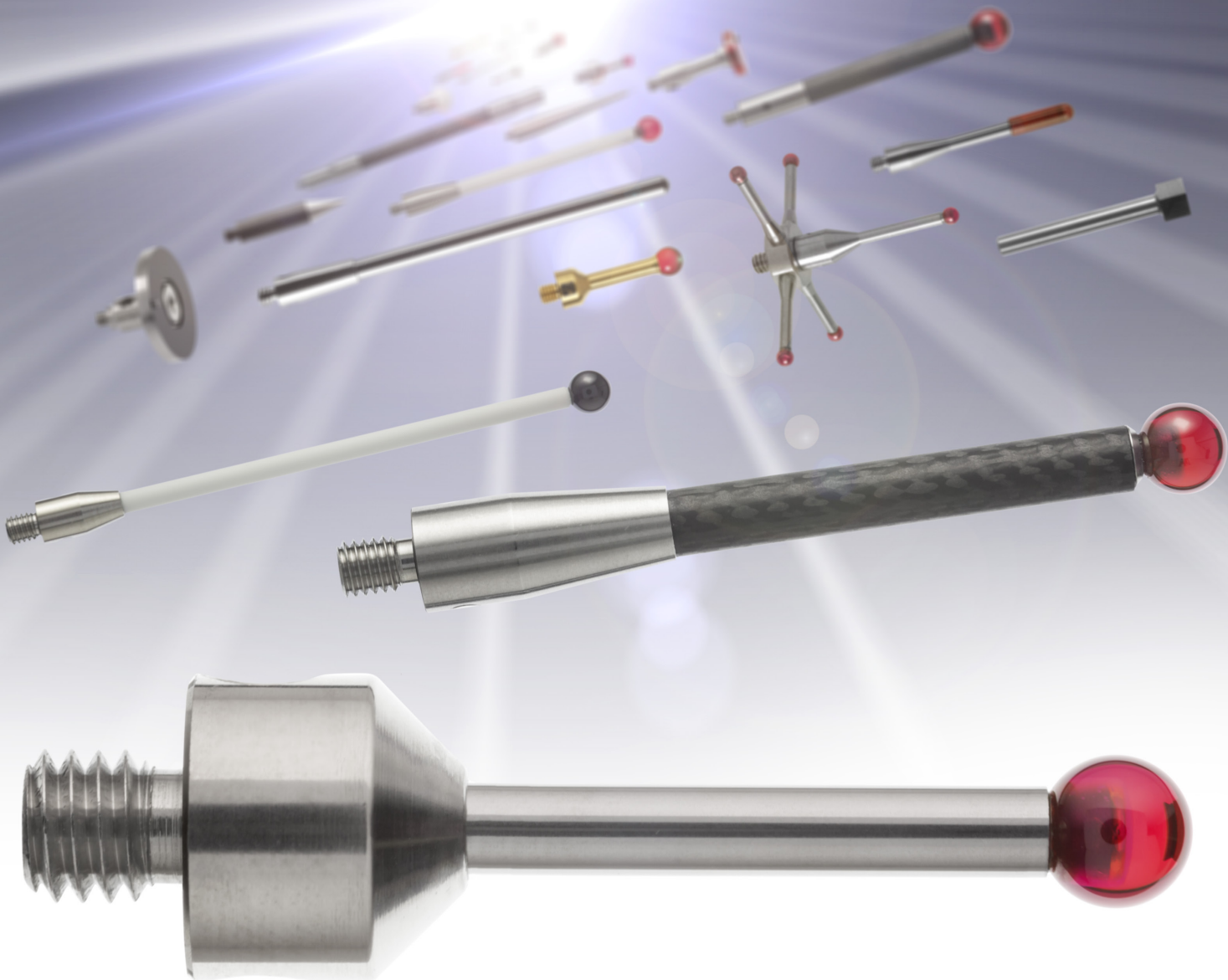











## M2 threaded stylus range


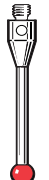










**Ruby ball styli (stainless steel stems)**

| 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>          |  |  |  |  |  |  |  |  |  |

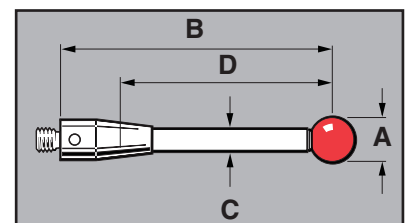
M2 threaded stylus range  
**1.1**

| 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>          |  |  |  |  |

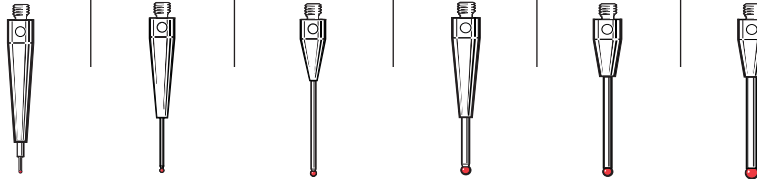
\*Grade 10 balls



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

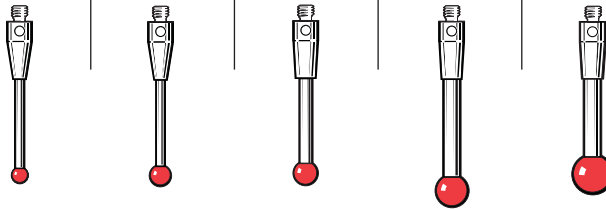
| Ball Material   |                    | Part number |             |             |             |             |             |
|-----------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Ruby            |                    | A-5004-7398 | 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        |

20 mm range



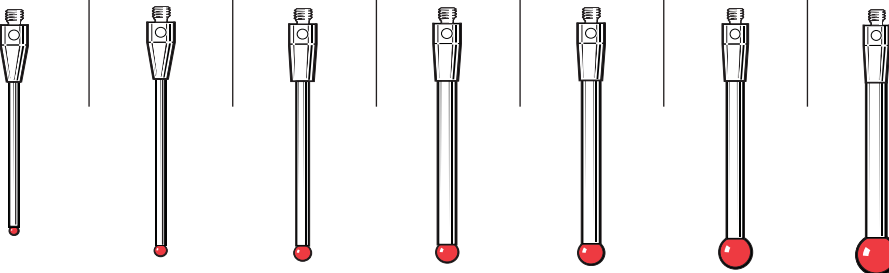
| Ball material   |                    | Part number |             |             |             |             |
|-----------------|--------------------|-------------|-------------|-------------|-------------|-------------|
| Ruby            |                    | A-5003-3822 | A-5003-1896 | A-5003-0938 | 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        |

20 mm range



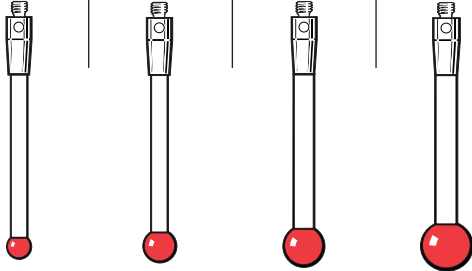
| Ball material   |                    | Part number |             |             |             |             |             |             |
|-----------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Ruby            |                    | 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        |

30 mm range

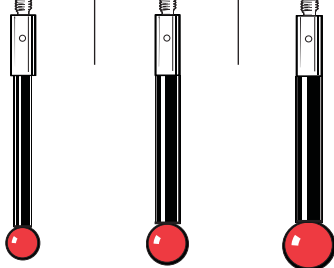


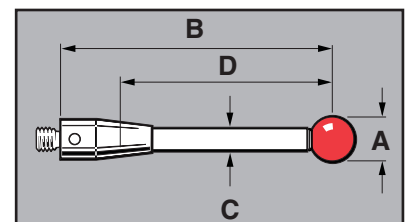
\*Effective working length

### 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        |
| <b>30 mm range</b> |                    |  |             |             |             |

### Ruby ball styli (carbon fibre stems)

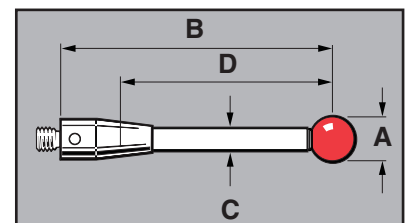
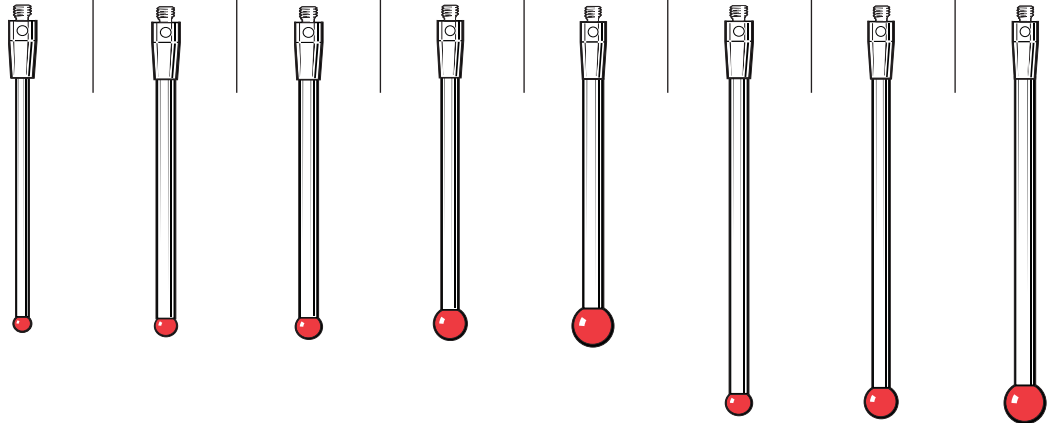
| Ball material      |                    | Part number   |             |             |
|--------------------|--------------------|---|-------------|-------------|
| Ruby               |                    | A-5003-4241   | A-5003-4781 | A-5003-4782 |
| Silicon nitride    |                    | A-5004-1955   | 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        |
| <b>30 mm range</b> |                    |  |             |             |



**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

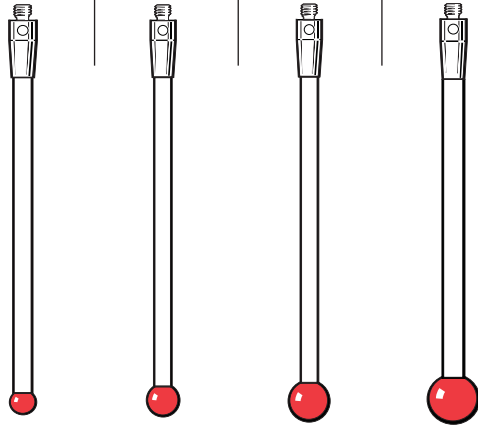


\*Effective working length

**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



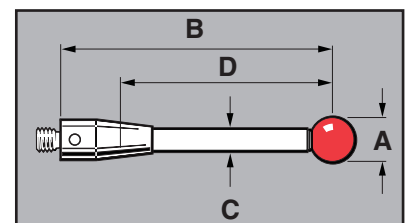
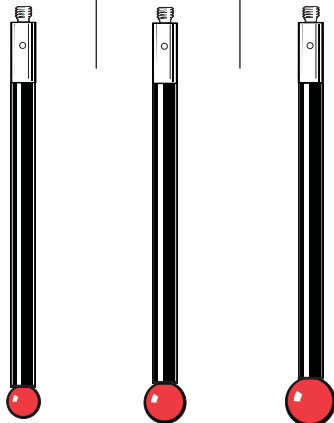
M2 threaded stylus range

1.5

**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        |

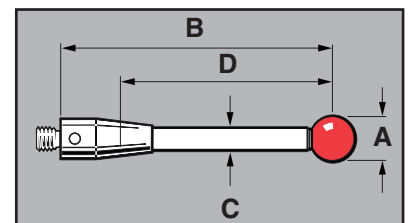
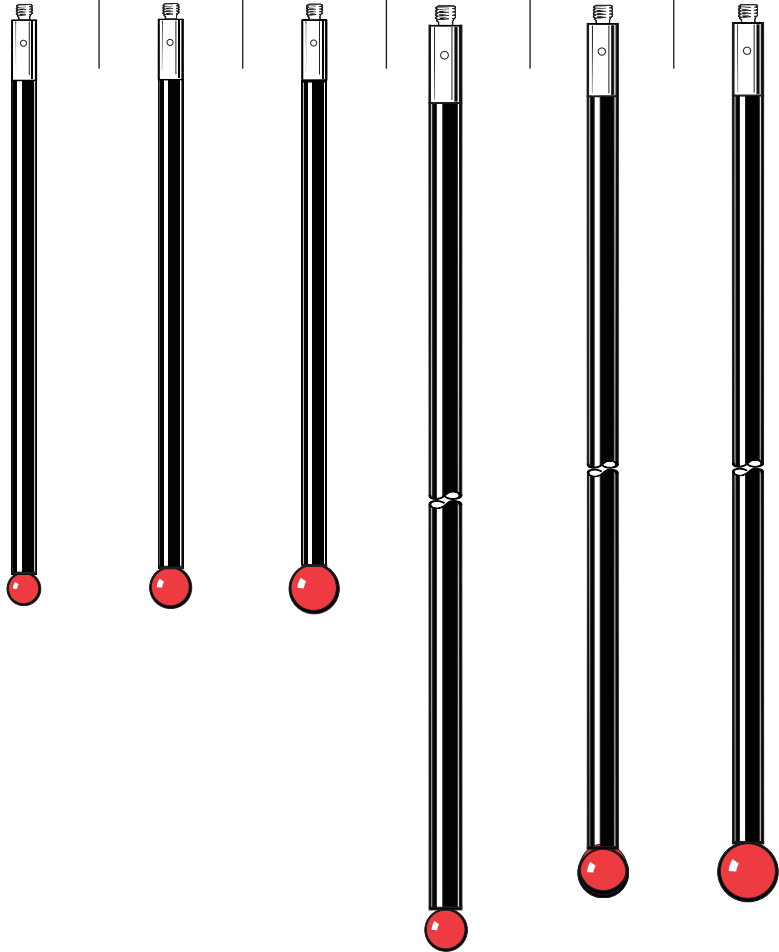
50 mm range



**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

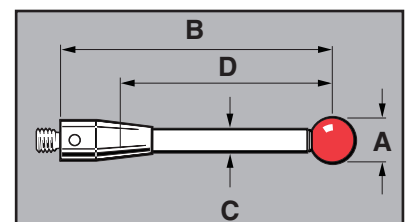


**Recommended REVO styli (stainless steel stem)**

| Ball material      |                    | Part number   |   |   |   |  |   |
|--------------------|--------------------|---|---|---|---|--|---|
| Ruby               |                    | A-5000-7806   | A-5000-7807   | A-5000-3604   | A-5000-4154   | A-5000-4156  | A-5000-4158   |
| Silicon nitride    |                    |   |   |   |   | A-5004-0237  |   |
| Zirconia           |                    |   |   |   |   |  |   |
| <b>A</b>           | Ball dia. mm (in.) | 1.0 (0.04)  | 2.0 (0.08)  | 3.0 (0.12)  | 4.0 (0.16)  | 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)  | 11.0 (0.44)   |
| <b>C</b>           | Stem dia. mm (in.) | 0.7 (0.028)   | 1.0 (0.04)  | 1.5 (0.06)  | 1.5 (0.06)  | 2.5 (0.10)   | 2.5 (0.10)  |
| <b>D</b>           | EWL* mm (in.)      | 4.5 (0.18)  | 6.0 (0.24)  | 7.0 (0.28)  | 10.0 (0.40)   | 10.0 (0.40)  | 11.0 (0.44)   |
|                    | Mass grammes       | 0.3   | 0.3   | 0.4   | 0.4   | 0.9  | 1.5   |
| <b>10 mm range</b> |                    |  |  |  |  |  |  |

M2 threaded stylus range  
**1.7**

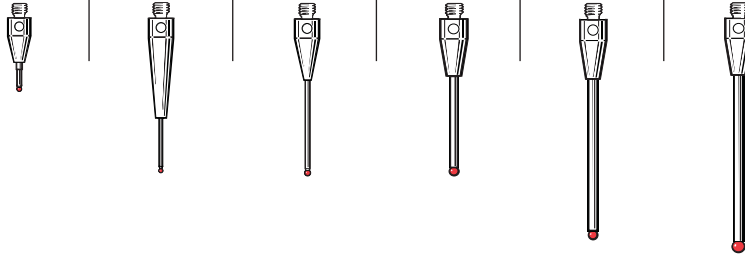
| Ball material      |                    | Part number   |   |   |
|--------------------|--------------------|---|---|---|
| Ruby               |                    | A-5000-3603   | A-5000-4160   | A-5000-4161   |
| Silicon nitride    |                    | A-5003-1730   |   |   |
| Zirconia           |                    |   |   |   |
| <b>A</b>           | Ball dia. mm (in.) | 2.0 (0.08)  | 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)   |
| <b>C</b>           | Stem dia. mm (in.) | 1.4 (0.05)  | 1.5 (0.06)  | 1.5 (0.06)  |
| <b>D</b>           | EWL* mm (in.)      | 14.0 (0.56)   | 17.0 (0.67)   | 20.0 (0.79)   |
|                    | Mass grammes       | 0.4   | 0.5   | 0.6   |
| <b>20 mm range</b> |                    |  |  |  |



**Recommended REVO styli (tungsten carbide stem)**

| Ball material   |                    | Part number |             |             |             |             |             |
|-----------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Ruby            |                    | A-5000-7805 | A-5003-1345 | A-5003-0577 | A-5003-0033 | A-5000-8663 | A-5003-0035 |
| Silicon nitride |                    |             |             |             |             |             |             |
| Zirconia        |                    |             |             |             |             |             |             |
| <b>A</b>        | Ball dia. mm (in.) | 0.5 (0.020) | 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.)    | 10.0 (0.40) | 20.0 (0.79) | 20.0 (0.79) | 20.0 (0.79) | 27.5 (1.08) | 30.0 (1.19) |
| <b>C</b>        | Stem dia. mm (in.) | 0.4 (0.02)  | 0.3 (0.012) | 0.5 (0.020) | 0.8 (0.04)  | 0.7 (0.028) | 1.0 (0.04)  |
| <b>D</b>        | EWL* mm (in.)      | 3.0 (0.12)  | 7.0 (0.28)  | 12.0 (0.48) | 12.5 (0.50) | 20.5 (0.81) | 22.5 (0.89) |
|                 | Mass grammes       | 0.3         | 0.48        | 0.32        | 0.41        | 0.4         | 0.58        |

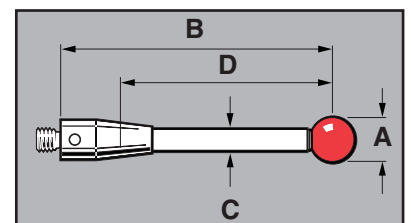
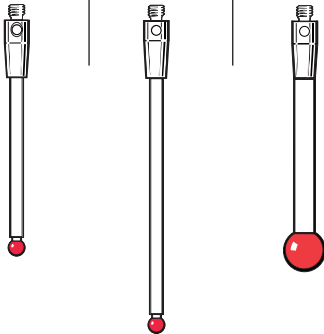
10 – 30 mm range



**Recommended REVO styli (ceramic stem)**

| Ball material   |                    | Part number |             |             |
|-----------------|--------------------|-------------|-------------|-------------|
| Ruby            |                    | A-5004-3404 | A-5003-6985 | A-5003-4779 |
| Silicon nitride |                    | A-5004-7273 | A-5004-7123 |             |
| Zirconia        |                    |             |             |             |
| <b>A</b>        | Ball dia. mm (in.) | 2.0 (0.08)  | 2.0 (0.08)  | 5.0 (0.20)  |
| <b>B</b>        | Length mm (in.)    | 30.0 (1.19) | 40.0 (1.58) | 30.0 (1.19) |
| <b>C</b>        | Stem dia. mm (in.) | 1.5 (0.06)  | 1.5 (0.06)  | 2.5 (0.10)  |
| <b>D</b>        | EWL* mm (in.)      | 22.5 (0.89) | 32.5 (1.28) | 30.0 (1.19) |
|                 | Mass grammes       | 0.51        | 0.58        | 0.93        |

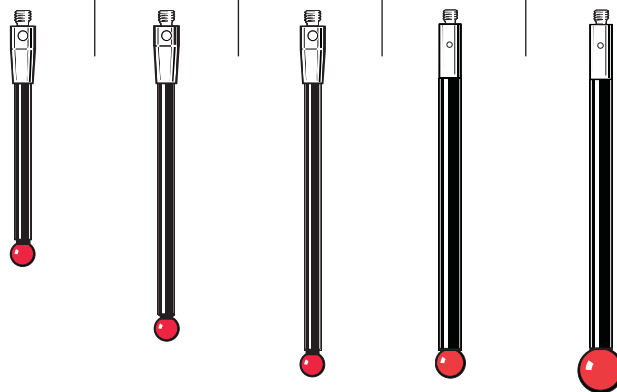
30 – 40 mm range



**Recommended REVO styli (carbon fibre stem)**

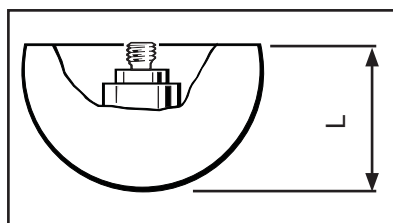
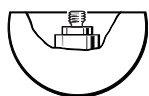
| Ball material               | Part number        |                    |                    |                    |                    |
|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Ruby</b>                 | <b>A-5003-7852</b> | <b>A-5003-3877</b> | <b>A-5003-9506</b> | <b>A-5003-2285</b> | <b>A-5003-2287</b> |
| <b>Silicon nitride</b>      |                    |                    |                    |                    |                    |
| <b>Zirconia</b>             |                    |                    |                    |                    |                    |
| <b>A</b> Ball dia. mm (in.) | 3.0 (0.12)         | 3.0 (0.12)         | 3.0 (0.12)         | 4.0 (0.16)         | 6.0 (0.24)         |
| <b>B</b> Length mm (in.)    | 30.0 (1.19)        | 40.0 (1.58)        | 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)         | 2.0 (0.08)         | 3.0 (0.12)         | 3.0 (0.12)         |
| <b>D</b> EWL* mm (in.)      | 27.5 (1.08)        | 37.5 (1.48)        | 47.0 (1.85)        | 50.0 (1.97)        | 50.0 (1.97)        |
| Mass grammes                | 0.45               | 0.75               | 0.9                | 1.0                | 1.2                |

**30 – 50 mm range**





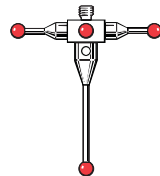
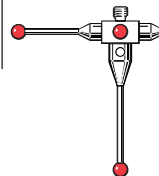


**Recommended REVO styli (ceramic hemisphere)**





| Ball material               | Part number        |
|-----------------------------|--------------------|
| <b>Ceramic</b>              | <b>A-5000-3614</b> |
| <b>A</b> Ball dia. mm (in.) | 18.0 (0.71)        |
| <b>B</b> Length mm (in.)    | 11.0 (0.44)        |
| <b>C</b> Mass grammes       | 3.3                |



## Star styli (fixed)

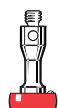
| Part number        | A-5003-4011<br>Tungsten carbide   | A-5000-7811<br>Tungsten carbide   | A-5003-4787<br>Tungsten carbide   | A-5003-4788<br>Tungsten carbide   | A-5000-7629<br>Stainless steel   | A-5000-3626<br>Stainless steel  |
|--------------------|---|---|---|---|--|---|
| Span mm (in.)      | 10.0 (0.40)   | 10.0 (0.40)   | 20.0 (0.79)   | 20.0 (0.79)   | 18.0 (0.71)  | 30.0 (1.19)   |
| Ball dia. mm (in.) | 0.5 (0.020)   | 1.0 (0.04)  | 0.5 (0.020)   | 1.0 (0.04)  | 2.0 (0.08)   | 2.0 (0.08)  |
| Stem dia. mm (in.) | 0.3 (0.012)   | 0.7 (0.028)   | 0.3 (0.012)   | 0.7 (0.028)   | 1.4 (0.05)   | 1.4 (0.05)  |
| EWL* mm (in.)      | N/A   | N/A   | N/A   | N/A   | 12.0 (0.48)  | 12.0 (0.48)   |
| Mass grammes       | 0.7   | 0.5   | 0.7   | 0.9   | 1.3  | 1.8   |
|                    |  |  |  |  |  |  |

## Star styli centres

| Part number             | A-5003-4789<br>Tungsten carbide   | A-5003-4790<br>Tungsten carbide   | A-5003-4791<br>Tungsten carbide   | A-5000-3609<br>Stainless steel  |
|-------------------------|---|---|---|---|
| Ball dia mm (in.)       | 1.0 (0.04)  | 0.5 (0.020)   | 1.0 (0.04)  | 2.0 (0.08)  |
| Overall length mm (in.) | 8.5 (0.33)  | 18.5 (0.73)   | 18.5 (0.73)   | 16.3 (0.64)   |
| Stem dia. mm (in.)      | 0.7 (0.028)   | 0.4 (0.02)  | 0.7 (0.028)   | 1.4 (0.05)  |
| EWL* mm (in.)           | 3.5 (0.14)  | 7.0 (0.28)  | 11.0 (0.44)   | 12.0 (0.48)   |
| Mass grammes            | 0.31  | 0.43  | 0.45  | 0.44  |
|                         |  |  |  |  |

## Disc styli

| Part number           | A-5000-3611<br>Ruby | A-5004-1387<br>Silver steel | A-5004-1395*<br>Silver steel | A-5004-1396*<br>Silver steel | A-5000-7809*<br>Silver steel |
|-----------------------|---------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| Disc dia mm (in.)     | 6.0 (0.24)          | 10.0 (0.40)                 | 12.0 (0.47)                  | 14.0 (0.55)                  | 18.0 (0.71)                  |
| Disc depth mm (in.)   | 1.2 (0.05)          | 1.2 (0.05)                  | 1.6 (0.06)                   | 1.6 (0.06)                   | 1.5 (0.06)                   |
| Roller depth mm (in.) | 2.0 (0.08)          | 2.0 (0.08)                  | 2.5 (0.10)                   | 2.5 (0.10)                   | 2.5 (0.10)                   |
| Stem dia. mm (in.)    | 2.0 (0.08)          | 2.0 (0.08)                  | 4.2 (0.17)                   | 4.2 (0.17)                   | 4.2 (0.17)                   |
| Mass grammes          | 0.6                 | 1.0                         | 2.0                          | 2.5                          | 3.0                          |



| Part number           | A-5000-3613<br>Silver steel | A-5000-7810*<br>Silver steel | A-5000-4187*<br>Silver steel |
|-----------------------|-----------------------------|------------------------------|------------------------------|
| Disc dia mm (in.)     | 18.0 (0.71)                 | 25.0 (0.99)                  | 25.0 (0.99)                  |
| Disc depth mm (in.)   | 2.2 (0.09)                  | 1.5 (0.06)                   | 3.0 (0.12)                   |
| Roller depth mm (in.) | 3.0 (0.12)                  | 2.5 (0.10)                   | N/A                          |
| Stem dia. mm (in.)    | N/A                         | 4.2 (0.17)                   | N/A                          |
| Mass grammes          | 2.7                         | 4.0                          | 3.8                          |



| Part number           | A-5555-0298<br>Ceramic | A-5555-0297<br>Ceramic | A-5555-0299<br>Ceramic | A-5555-0300<br>Ceramic |
|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Disc dia mm (in.)     | 4.0 (0.16)             | 8.0 (0.32)             | 14.0 (0.55)            | 20.0 (0.79)            |
| Disc depth mm (in.)   | 1.0 (0.04)             | 1.5 (0.06)             | 2.0 (0.08)             | 2.5 (0.10)             |
| Roller depth mm (in.) | N/A                    | N/A                    | N/A                    | N/A                    |
| Stem dia. mm (in.)    | 1.0 (0.04)             | 1.5 (0.06)             | N/A                    | N/A                    |
| Mass grammes          | 1                      | 1                      | 1                      | 3.8                    |



\* M2 stylus can be attached to front face

### Cylinder styli

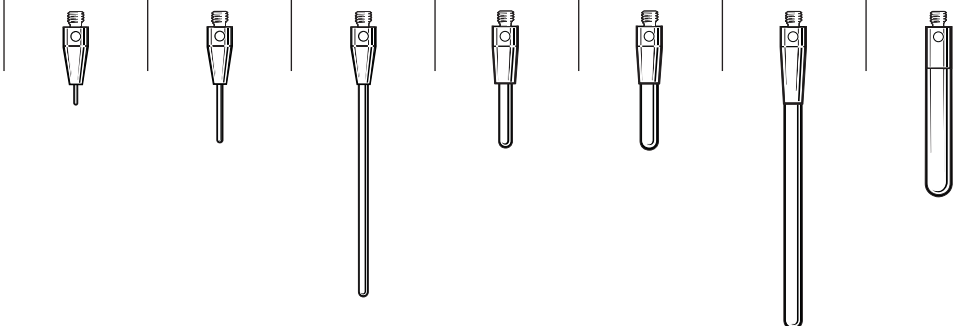
| Part number             | A-5004-7589<br>Silver steel | A-5004-7590<br>Silver steel | A-5000-8876<br>Ruby | A-5000-8877<br>Ruby | A-5000-7812<br>Ruby | A-5003-0073<br>Ruby |
|-------------------------|-----------------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Cylinder dia mm (in.)   | 1.5 (0.06)                  | 3.0 (0.12)                  | 1.0 (0.04)          | 1.5 (0.06)          | 2.0 (0.08)          | 4.0 (0.16)          |
| Overall length mm (in.) | 10.75 (0.42)                | 12.75 (0.50)                | 15.0 (0.60)         | 15.0 (0.60)         | 20.0 (0.79)         | 22.0 (0.87)         |
| Stem dia. mm (in.)      | 1.0 (0.04)                  | 1.5 (0.06)                  | N/A                 | N/A                 | 1.6 (0.07)          | 2.0 (0.08)          |
| EWL* mm (in.)           | 1.25 (0.05)                 | 3.8 (0.15)                  | 8.0 (0.32)          | 8.0 (0.32)          | 7.2 (0.29)          | 10.0 (0.40)         |
| Mass grammes            | 0.3                         | 0.6                         | 0.3                 | 0.3                 | 0.5                 | 0.9                 |



\*Effective working length

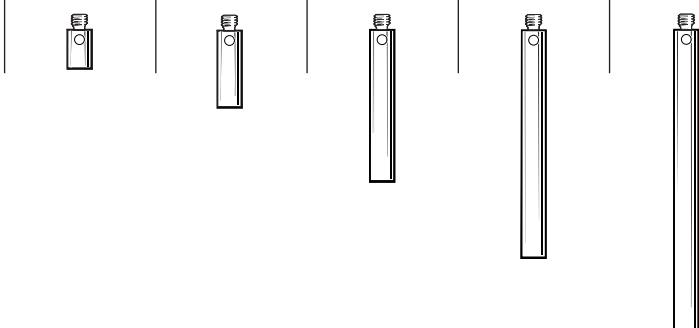
### Parallel hemispherical ended styli (tungsten carbide)

| Part number             | A-5003-1208 | A-5003-1210 | A-5003-1218 | A-5003-1219 | A-5003-1228 | A-5003-0074 | A-5003-1258 |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Cylinder dia mm (in.)   | 0.3 (0.012) | 0.5 (0.020) | 1.0 (0.04)  | 1.5 (0.06)  | 2.0 (0.08)  | 2.0 (0.08)  | 3.0 (0.12)  |
| Overall length mm (in.) | 10.2 (0.41) | 15.3 (0.61) | 35.5 (1.40) | 15.8 (0.63) | 16.0 (0.63) | 40.0 (1.58) | 22.5 (0.89) |
| EWL* mm (in.)           | 2.7 (0.11)  | 7.8 (0.31)  | 28.0 (1.10) | 8.3 (0.33)  | 8.5 (0.34)  | 32.0 (1.26) | 22.5 (0.89) |
| Mass grammes            | 0.3         | 0.3         | 0.7         | 0.6         | 0.8         | 2.0         | 2.0         |



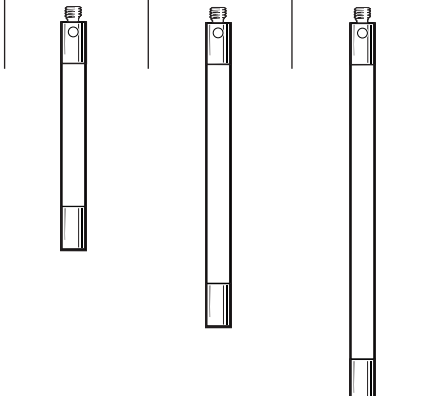
### Stylus extensions (stainless steel)

| Part number        | A-5004-7610 | A-5004-7585 | A-5004-7586 | A-5004-7591 | A-5004-7611 |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Length mm (in.)    | 5.0 (0.20)  | 10.0 (0.40) | 20.0 (0.79) | 30.0 (1.19) | 40.0 (1.58) |
| Stem dia. mm (in.) | 3.0 (0.12)  | 3.0 (0.12)  | 3.0 (0.12)  | 3.0 (0.12)  | 3.0 (0.12)  |
| Mass grammes       | 0.2         | 0.4         | 0.9         | 1.4         | 1.8         |



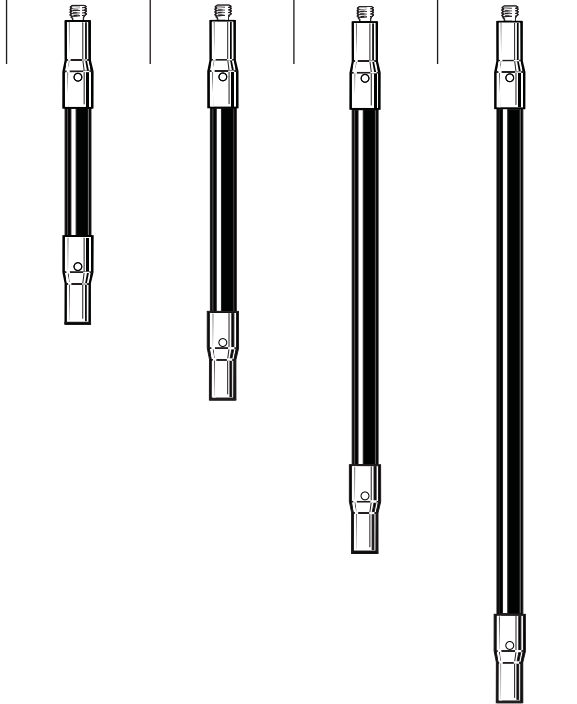
### Stylus extensions (ceramic)

| Part number        | A-5003-0070 | A-5003-0071 | A-5003-0072 |
|--------------------|-------------|-------------|-------------|
| Length mm (in.)    | 30.0 (1.19) | 40.0 (1.58) | 50.0 (1.97) |
| Stem dia. mm (in.) | 3.0 (0.12)  | 3.0 (0.12)  | 3.0 (0.12)  |
| Mass grammes       | 0.97        | 1.22        | 1.51        |



### Stylus extensions (carbon fibre)

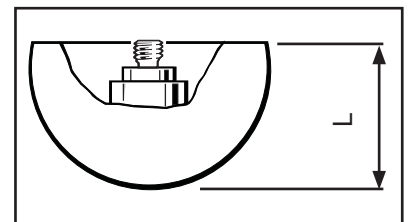
| Part number         | A-5003-2280 | A-5003-2281 | A-5003-2282 | A-5003-2283 |
|---------------------|-------------|-------------|-------------|-------------|
| Length mm (in.)     | 40.0 (1.58) | 50.0 (1.97) | 70.0 (2.76) | 90.0 (3.55) |
| Stem dia. mm (in.)  | 3.0 (0.12)  | 3.0 (0.12)  | 3.0 (0.12)  | 3.0 (0.12)  |
| Outer dia. mm (in.) | 3.5 (0.14)  | 3.5 (0.14)  | 3.5 (0.14)  | 3.5 (0.14)  |
| Mass grammes        | 0.9         | 1.0         | 1.3         | 1.5         |



Tightening tool recommended: A-5003-2300

### Special purpose styli

| Part number          | A-5004-7588<br>Silver steel | A-5000-7813<br>Tungsten carbide | A-5000-3614<br>Ceramic | A-5004-7400<br>Ceramic |
|----------------------|-----------------------------|---------------------------------|------------------------|------------------------|
| Length mm (in.)      | 15.0 (0.60)                 | 10.0 (0.40)                     | 11.0 (0.44)            | 18.0 (0.71)            |
| Ball dia. mm (in.)   | N/A                         | N/A                             | 18.0 (0.71)            | 30.0 (1.19)            |
| End feature mm (in.) | Flat Rad 0.05 (0.002)       | Spherical Rad 0.1 (0.004)       | N/A                    | N/A                    |
| Mass grammes         | 0.7                         | 0.7                             | 3.3                    | 14.5                   |
| Angles               | 30° inclusive               | 30° inclusive                   | N/A                    | N/A                    |





# 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 \_\_\_\_\_

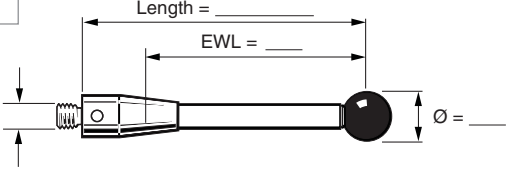
Tip material Ruby  Silicon nitride  Stainless steel  Tungsten carbide  Zirconia

Stem material Carbon fibre  Ceramic  Stainless steel  Tungsten carbide

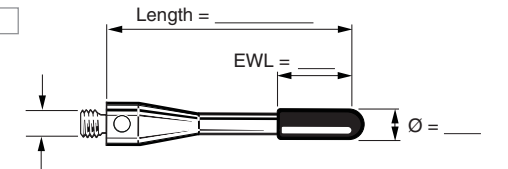
Quantity of styli required \_\_\_\_\_

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

**A**



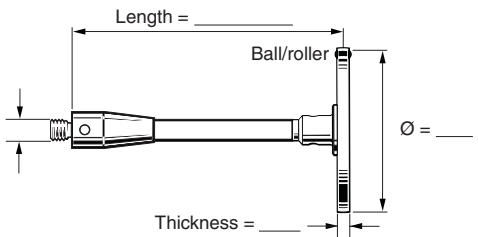
**B**



**C**

Is there a ball/roller? Yes  No

If yes, please specify height of ball/roller: \_\_\_\_\_



|                               |   |
|-------------------------------|---|
| <b>Probe information</b>      |   |
| 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](http://www.renishaw.com/contact)



RENISHAW HAS MADE CONSIDERABLE EFFORTS TO ENSURE THE CONTENT OF THIS DOCUMENT IS CORRECT AT THE DATE OF PUBLICATION BUT MAKES NO WARRANTIES OR REPRESENTATIONS REGARDING THE CONTENT. RENISHAW EXCLUDES LIABILITY, HOWSOEVER ARISING, FOR ANY INACCURACIES IN THIS DOCUMENT.

© 2012–2016 Renishaw plc. All rights reserved.

Renishaw reserves the right to change specifications without notice.

RENISHAW and the probe symbol used in the RENISHAW logo are registered trade marks of Renishaw plc in the United Kingdom and other countries. apply innovation and names and designations of other Renishaw products and technologies are trade marks of Renishaw plc or its subsidiaries. All other brand names and product names used in this document are trade names, trade marks or registered trade marks of their respective owners.



H - 1000 - 7547 - 02

Part no.: H-1000-7547-02-A  
Issued: 01.2016