

M4 threaded stylus range

M4 threaded stylus range

5.0



OMP40 is a compact probe suited to small machining centres

Renishaw's probing systems are designed to give optimum performance using styli from Renishaw's comprehensive range. The following probes all use M4 threaded styli, however with suitable adaptors, other thread sizes may be used.

- | CMM | Machine tool | | Digitising |
|------------|---------------------|---------|-------------------|
| • TP7 | • MP1 | • MP10 | • MP16 |
| • SP600 | • MP3 | • MP11 | • MP10E |
| • TP800 | • MP4 | • MP12 | • MP700E |
| | • MP6 | • MP700 | • OMP40 |
| | • MP7 | • LP2 | • RMP60 |
| | • MP8 | • TS27R | • RP3 |
| | • MP9 | • MP18 | |
| | | | • Cyclone |



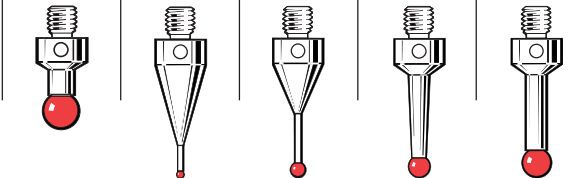
Styli and accessories

M4 threaded
stylus range

5.1

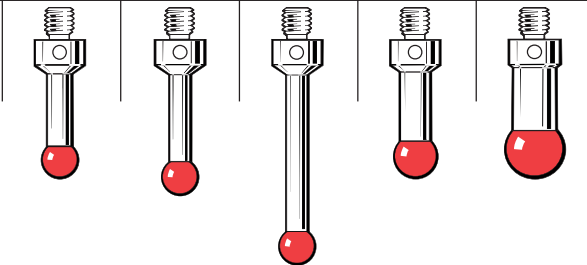
Ruby ball styli (stainless steel stems)

Part number	A-5003-3550	A-5000-7545	A-5000-7547	A-5000-7549	A-5000-7551
A Ball dia. mm (Inch)	5.0 (0.20)	1.0 (0.04)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)
B Length mm (Inch)	10.5 (0.42)	19.5 (0.77)	19.0 (0.75)	18.5 (0.73)	18.0 (0.71)
C Stem dia. mm (In.)	3.5 (0.14)	0.7 (0.03)	1.4 (0.05)	2.0 (0.08)	3.0 (0.12)
D EWL* mm (Inch)	5.5 (0.22)	4.0 (0.16)	8.0 (0.32)	13.0 (0.52)	13.0 (0.52)
Mass grammes	2.0	2.5	2.3	2.0	2.1



Part number	A-5000-7553	A-5000-6731	A-5000-6352	A-5000-7555	A-5000-7557
A Ball dia. mm (Inch)	5.0 (0.20)	5.0 (0.20)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)
B Length mm (Inch)	18.0 (0.71)	20.0 (0.79)	30.0 (1.19)	17.5 (0.69)	16.0 (0.63)
C Stem dia. mm (In.)	3.5 (0.14)	3.0 (0.12)	3.0 (0.12)	4.5 (0.18)	6.0 (0.24)
D EWL* mm (Inch)	13.5 (0.54)	16.0 (0.63)	26.0 (1.03)	13.5 (0.54)	16.0 (0.63)
Mass grammes	2.3	2.4	3.0	3.0	3.9

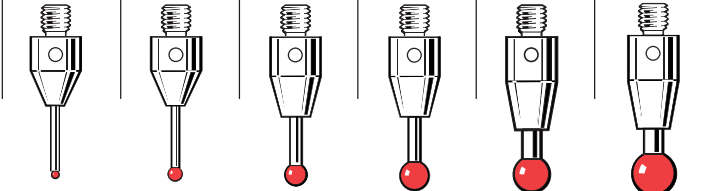
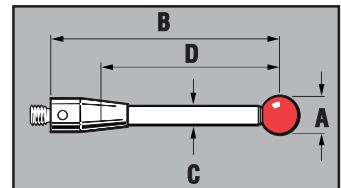
10 mm –
30 mm range



(Tungsten carbide stems)

Part number	A-5003-4792	A-5003-2932	A-5003-4793	A-5003-4794	A-5003-4795	A-5003-4796
A Ball dia. mm (Inch)	1.0 (0.04)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
B Length mm (Inch)	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 (0.03)	1.5 (0.06)	1.5 (0.06)	1.5 (0.06)	2.5 (0.10)	2.5 (0.10)
D EWL* mm (Inch)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	6.0 (0.24)	6.0 (0.24)
Mass grammes	2.39	3.01	3.53	3.53	4.52	4.66

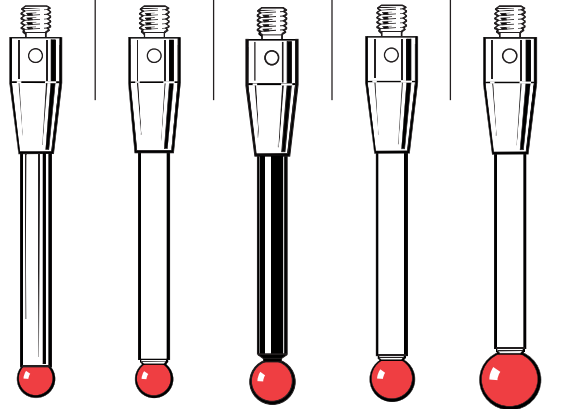
20 mm range

Ruby ball styli

Part number	A-5000-7521 Stainless steel	A-5003-0235 Ceramic	*A-5003-1436 Carbon fibre	A-5000-3709 Ceramic	A-5000-7795 Ceramic
A Ball dia. mm (Inch)	5.0 (0.20)	5.0 (0.20)	6.0 (0.24)	6.0 (0.24)	8.0 (0.32)
B Length mm (Inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
C Stem dia. mm (Inch)	4.5 (0.18)	3.8 (0.15)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
D EWL* mm (Inch)	35.0 (1.38)	34.0 (1.34)	36.0 (1.42)	36.0 (1.42)	50.0 (1.97)
Mass grammes	5.8	5.0	4.1	4.8	5.4

50 mm range



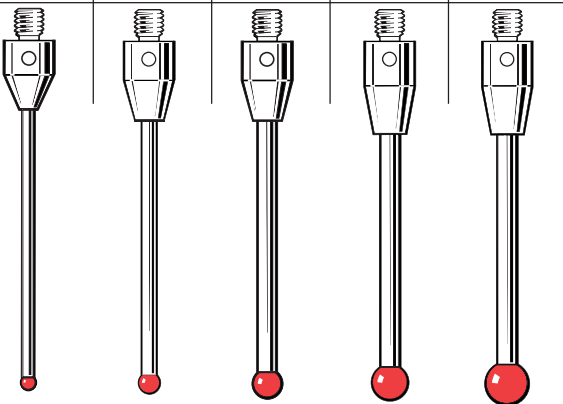
M4 threaded
stylus range

5.2

(Tungsten carbide stems)

Part number	A-5003-4797	A-5003-3680	A-5003-4799	A-5003-4800	A-5003-4801
A Ball dia. mm (Inch)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
B Length mm (Inch)	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.)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)	2.5 (0.10)
D EWL* mm (Inch)	40.0 (1.58)	38.0 (1.50)	38.0 (1.50)	36.0 (1.42)	36.0 (1.42)
Mass grammes	3.80	4.94	4.99	6.72	6.86

50 mm range

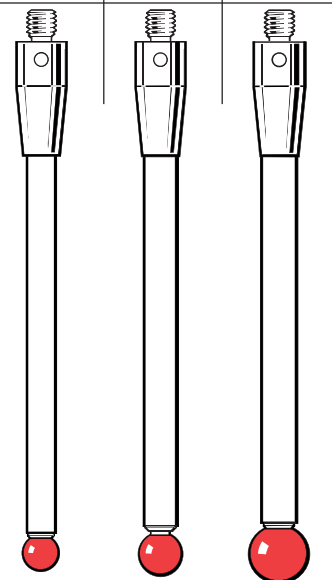


• Use with MP700

(Ceramic stems)

Part number	A-5003-0236	A-5003-2764	A-5003-4802
Ball dia. mm (Inch)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)
Length mm (Inch)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)
Stem dia. mm (In.)	3.8 (0.15)	4.5 (0.18)	4.5 (0.18)
EWL* mm (Inch)	59.0 (2.33)	63.5 (2.51)	75.0 (2.96)
Mass grammes	5.63	5.64	6.20

75 mm range

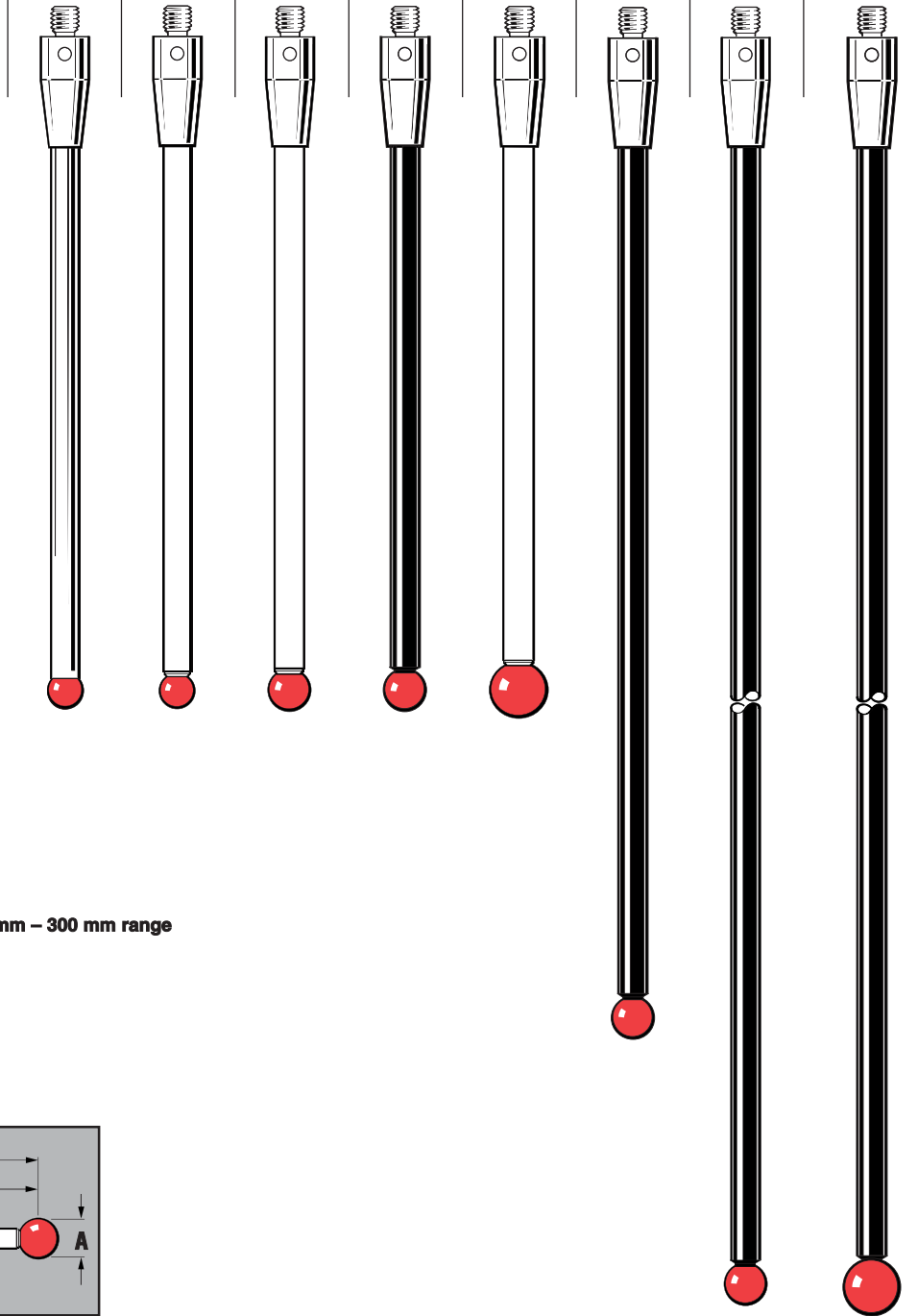


These styli are also available with specialist ball materials – see Section 7

*Effective working length

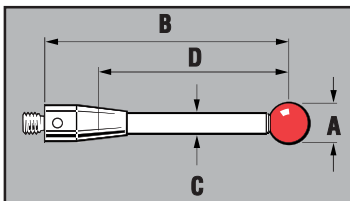
Ruby ball styli

Part number	A-5000-7522	A-5000-9761	A-5000-3712	A-5003-1358	A-5000-7796	A-5003-1255	A-5003-1075	A-5003-3461
	Stainless steel	Ceramic	Ceramic	Carbon fibre	Ceramic	Carbon fibre	Carbon fibre	Carbon fibre
A Ball dia. mm (inch)	5.0 (0.20)	5.0 (0.20)	6.0 (0.24)	6.0 (0.24)	8.0 (0.32)	6.0 (0.24)	6.0 (0.24)	8.0 (0.32)
B Length mm (inch)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)	300.0 (11.82)
C Stem dia. mm (in.)	4.5 (0.18)	3.8 (0.15)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
D EWL* mm (inch)	85.0 (3.35)	84.0 (3.31)	86.0 (3.39)	86.0 (3.39)	100.0 (3.94)	138.5 (5.46)	186.0 (7.33)	300.0 (11.82)
Mass grammes	11.3	6.4	6.4	6.2	7.0	7.5	8.7	10.4



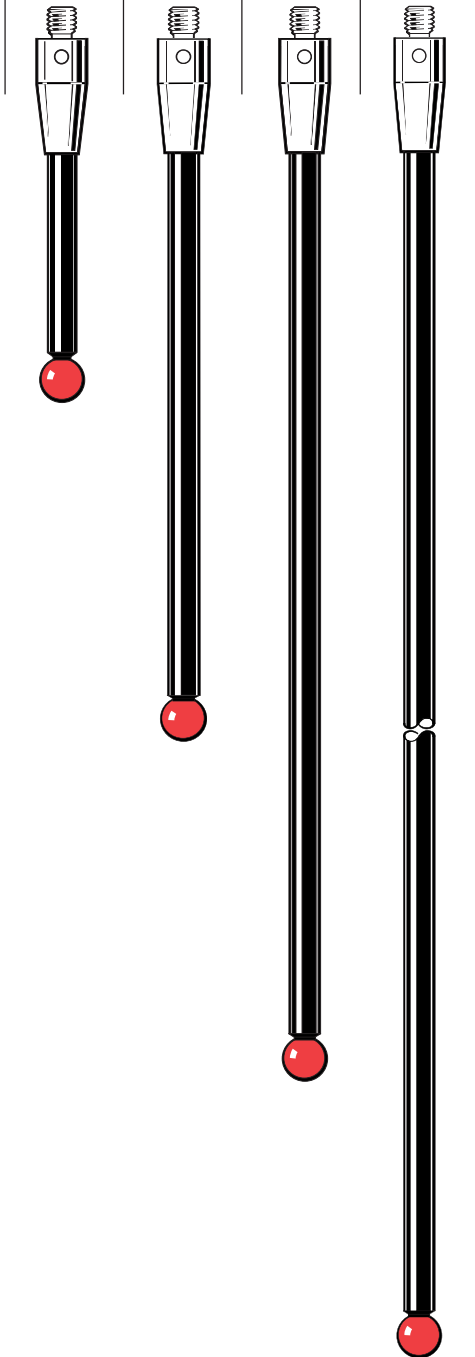
100 mm – 200 mm – 300 mm range

• Use with MP700



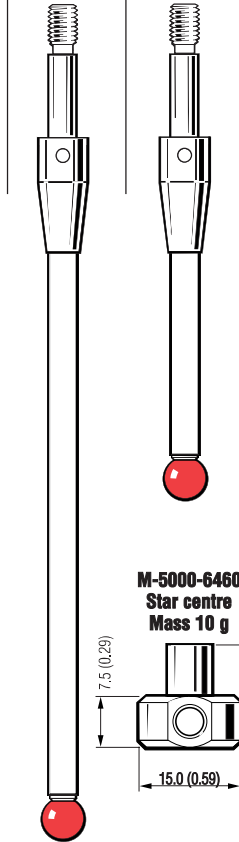
Ruby ball styli

Part number	A-5003-7306	A-5003-6510	A-5003-6511	A-5003-6512
	Carbon fibre	Carbon fibre	Carbon fibre	Carbon fibre
A Ball dia. mm (inch)	6.0 (0.24)	6.0 (0.24)	6.0 (0.24)	6.0 (0.24)
B Length mm (inch)	50.0 (1.97)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)
C Stem dia. mm (inch)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
D EWL* mm (inch)	36.0 (1.42)	88.0 (3.39)	138.0 (5.46)	186.0 (7.33)
Mass grammes	4.1	6.2	7.5	8.7



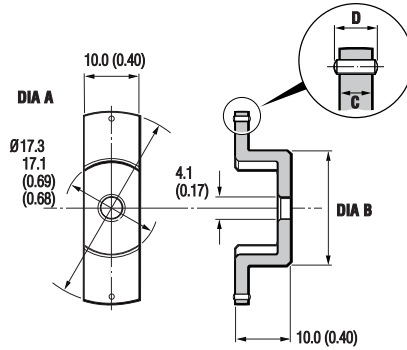
M4 star styli

Part number	A-5000-6462 Ceramic	A-5000-7098 Ceramic
Ball mm (inch)	6.0 (0.24)	6.0 (0.24)
Length mm (inch)	100.0 (3.94)	50.0 (1.97)
Stem dia. mm (in.)	4.5 (0.18)	4.5 (0.18)
EWL* mm (inch)	86.0 (3.39)	36.0 (1.42)
Mass grammes	7.5	6.0



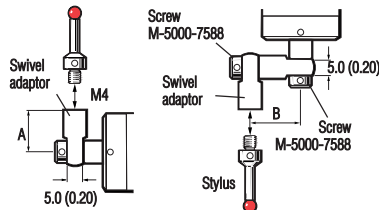
Disc styli

Part number	A-5000-7596	A-5000-7597	A-5000-7598
Diameter A mm (inch)	Ø30.0 (1.19)	Ø35.0 (1.38)	Ø50.0 (1.97)
Diameter B mm (inch)	Ø21.0 (0.83)	Ø21.0 (0.83)	Ø23.0 (0.91)
C mm (inch)	2.2 (0.09)	2.2 (0.09)	3.0 (0.12)
D mm (inch)	3.0 (0.12)	3.0 (0.12)	4.0 (0.16)
Mass grammes	8.01	9.57	13.55



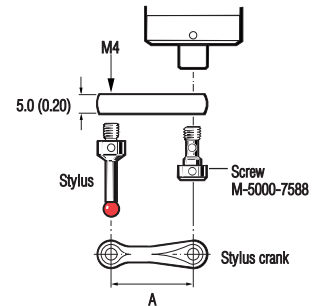
Swivel adaptor

Part number	M-5000-7591	M-5000-7592
Length A mm (inch)	10.0 (0.40)	13.5 (0.54)
Length B mm (inch)	12.5 (0.50)	16.0 (0.63)
Mass grammes	2.76	3.70



Styli crank

Part number	M-5000-7589	M-5000-7590
Length A mm (inch)	21.9 (0.86)	27.6 (1.09)
Mass grammes	6.07	6.94



*Effective working length

Crash protection devices

Part number	M-5000-7582	M-5000-7587	M-5000-7588	M-2085-0069	A-5003-5171	M-2197-0156	M-2197-0150
	Stainless steel	Stainless steel	Stainless steel	Silver steel	Silver steel	Silver steel	Silver steel
Length mm (Inch)	8.0 (0.32)	8 (0.32)	10 (0.40)	12 (0.48)	15.2 (0.60)	9.0 (0.36)	16.0 (0.63)
Mass grammes	1.8	1.4	1.5	2.7	4.6	1.5	2.1
For use on	LP2	LP2	LP2	MP10	TS27R	HPMA	HPMA
				MP12		HPRA	HPRA
				MP700		HPPA	HPPA
				MP18			
				MP16			
				MP3			
				MP11			



Use P-TL09-0003
to tighten

Part number	M-2008-0333	M-2008-0604	M-2008-0605	M-2048-2093	M-2116-0127
	Silver steel	Silver steel	Silver steel	Silver steel	Silver steel
Length mm (Inch)	13.3 (0.52)	22.3 (0.88)	30.3 (1.19)	13.5 (0.53)	19.0 (0.75)
Mass grammes	2.43	3.6	4.5	1.37	2.2
For use on	TS20	TS20	TS20	RP1/2	TSA



M4 threaded
stylus range
5.6

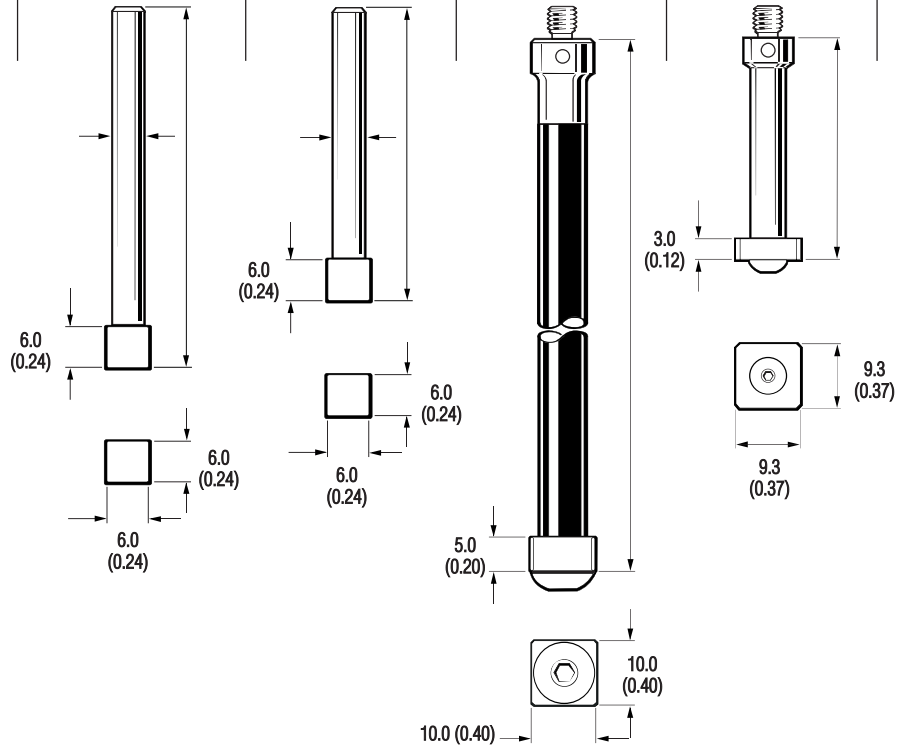
Styli and accessories

M4 threaded
stylus range

5.7

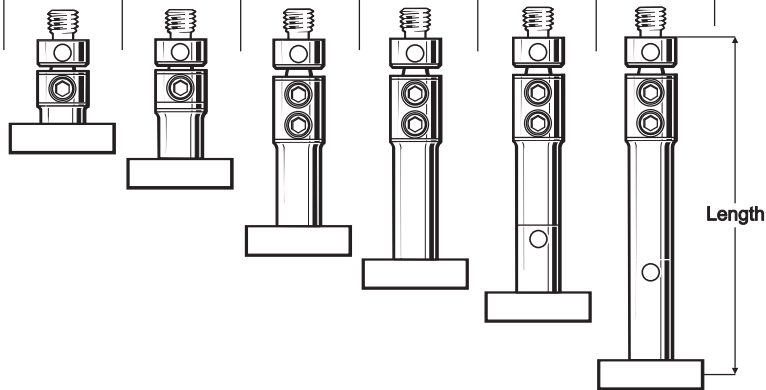
Tool datuming styli

Part number	A-5000-3212 Stainless steel	A-5000-6701 Stainless steel	A-5000-6713 Aluminium	A-5000-6403 Stainless steel
Overall length mm (In.)	53.0 (2.09)	43.0 (1.70)	96.5 (3.80)	32.5 (1.28)
Stem dia. mm (Inch)	4.5 (0.18)	4.5 (0.18)	7.5 (0.30)	5.4 (0.22)
Mass grammes	4.5	4.3	21.9	11.0



Tool datuming stylus

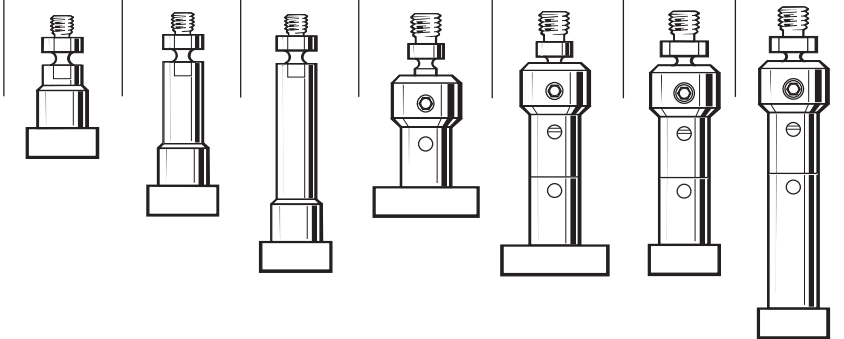
Part number	A-2197-0157	A-2197-0158	A-2197-0159	A-2197-0160	A-2197-0161	A-2197-0162
	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel
Length mm (inch)	14.2 (0.56)	19.57 (0.77)	29.5 (1.16)	34.5 (1.36)	39.5 (1.55)	49.5 (1.95)
Mass grammes	14.86	16.0	18.3	19.6	20.17	20.9
For use on	HPPA	HPPA	HPPA	HPPA	HPPA	HPPA
	HPMA	HPMA	HPMA	HPMA	HPMA	HPMA
	HPRA	HPRA	HPRA	HPRA	HPRA	HPRA



M4 threaded
stylus range

5.8

Part number	A-2008-0601	A-2008-0602	A-2008-0603	A-2048-2050	A-2048-2051	A-2116-0140	A-2116-0141
	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel
Length mm (inch)	15.4 (0.61)	24 (0.96)	32.4 (1.27)	23.2 (0.91)	32.0 (1.26)	32.0 (1.26)	42.0 (1.65)
Mass grammes	9.1	8.0	8.95	18.14	20.64	13.56	16.05
For use on	TS20	TS20	TS20	HPA (M6 MTG)	HPA (M6 MTG)	TSA	TSA

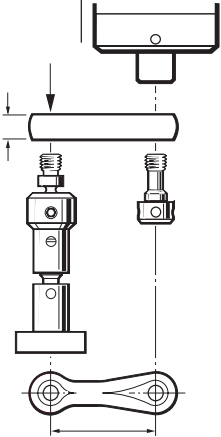


Styli and accessories

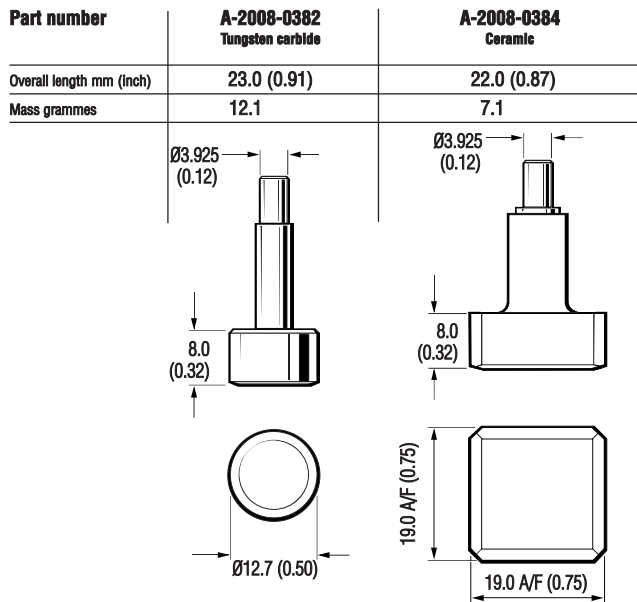
M4 threaded
stylus range
5.9

Tool datuming styli

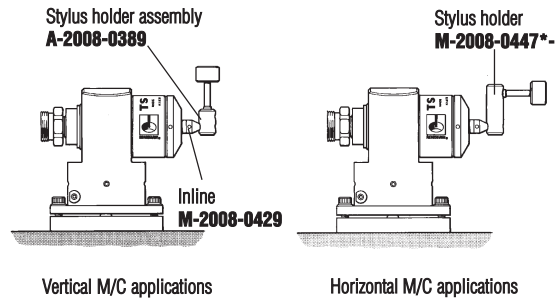
Part number	A-2116-0142
Length mm (inch)	30.3 (0.40)
Mass grammes	1.5 (0.06)
For use on	TSA



TS27R styli – parallel shafted (not M4) – Not compatible with TS27 probes



Stylus conversion kit for TS27R to allow Horizontal M/C applications (A-2008-0448)



*Order also requires 3 x P-SC13-0403

M4 threaded
stylus range

5.10



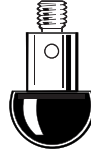


Stylus extensions

Part number	M-5000-7583 Stainless steel	M-5000-7584 Stainless steel	M-5000-7585 Stainless steel	M-5000-7586 Stainless steel	A-5000-7754 Ceramic	A-5000-7755 Ceramic	A-5000-7727 Ceramic
Length mm (inch)	10.0 (0.40)	15.0 (0.60)	20.0 (0.79)	30.0 (1.19)	30.0 (1.19)	50.0 (1.97)	100.0 (3.94)
Stem dia. mm (inch)	7.0 (0.28)	7.0 (0.28)	7.0 (0.28)	7.0 (0.28)	7.4 (0.30)	7.4 (0.30)	7.4 (0.30)
Mass grammes	2.4	3.7	4.8	7.4	5.1	6.7	10.6

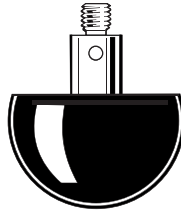

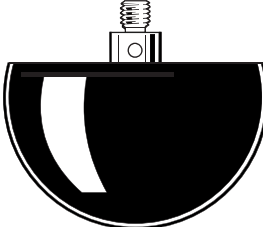
Complete stylus kit available – Part number A-5000-7676

M4 digitising styli



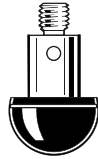


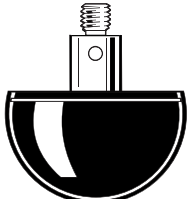
Hemispherical anodised aluminium ball styli (metric)

Part number	A-5000-7718	A-5000-7719	A-5000-7720	A-5000-7721	A-5000-7722
Ball dia mm (Inch)	8.0 (0.32)	10.0 (0.40)	12.0 (0.48)	16.0 (0.63)	20.0 (0.79)
Length mm (Inch)	10.5 (0.42)	10.5 (0.42)	10.5 (0.42)	11.5 (0.46)	11.5 (0.46)
Mass grammes	3.4	3.9	4.6	7.2	10.9
					

Hemispherical anodised aluminium ball styli (metric)

Part number	A-5000-7723	A-5000-7724	A-5000-7725
Ball dia mm (Inch)	25.0 (0.99)	32.0 (1.26)	38.0 (1.50)
Length mm (Inch)	12.5 (0.50)	9.5 (0.38)	9.5 (0.38)
Mass grammes	18.7	19.6	28.5
			

Hemispherical anodised aluminium ball styli (imperial)

Part number	A-5000-7710	A-5000-7711	A-5000-7712	A-5000-7713	A-5000-7714	A-5000-7715
Ball dia inch (mm)	5/16 (8.0)	3/8 (9.6)	1/2 (12.7)	5/8 (15.9)	3/4 (19.1)	1 (25.4)
Length mm (Inch)	10.5 (0.42)	10.5 (0.42)	10.5 (0.42)	11.5 (0.46)	11.5 (0.46)	12.5 (0.50)
Mass grammes	3.4	3.8	4.9	7.1	9.9	19.6
						

Complete stylus kit available – Part number A-5000-7677