

Midwest CMM Services

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RENISHAW 

apply innovation™

M2 threaded stylus range

M2 threaded
stylus range

3.0



TP200 with a SCR200 stylus changing rack

Renishaw's probing systems are designed to give optimum performance using styli from Renishaw's comprehensive range.

The following probes all use M2 threaded styli, however with suitable adaptors, other thread sizes may be used.

- TP2
- TP20
- TP200

Styli and accessories

M2 threaded
stylus range

3.1

Ruby ball styli (stainless steel stems)

Part number	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
A Ball dia. mm (inch)	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 Length mm (inch)	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)
C Stem dia. mm (in.)	0.7 (0.03)	0.7 (0.03)	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)
D EWL* mm (inch)	4.5 (0.18)	4.5 (0.18)	6.0 (0.24)	6.0 (0.24)	7.5 (0.30)	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

10 mm range

Part number	A-5000-3603	A-5000-7804	A-5000-4160	A-5000-4161
A Ball dia. mm (inch)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)
B Length mm (inch)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
C Stem dia. mm (in.)	1.4 (0.06)	1.4 (0.06)	1.5 (0.06)	1.5 (0.06)
D EWL* mm (inch)	14.0 (0.56)	14.0 (0.56)	17.5 (0.69)	20.0 (0.79)
Mass grammes	0.4	0.4	0.5	0.6

20 mm range

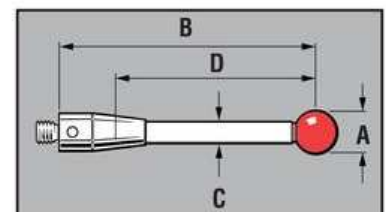
Ruby ball styli (tungsten carbide stems)

Part number	A-5000-7800	A-5000-7805	A-5000-7801	A-5000-1325
A Ball dia. mm (inch)	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)	1.0 (0.04)
B Length mm (inch)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)
C Stem dia. mm (in.)	0.2 (0.01)	0.4 (0.02)	0.5 (0.02)	0.7 (0.03)
D EWL* mm (inch)	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

10 mm range

Part number	A-5003-1345	A-5003-0577	A-5003-7808	A-5003-0033	A-5003-0034
A Ball dia. mm (inch)	0.5 (0.02)	0.7 (0.03)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)
B Length mm (inch)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	20.0 (0.76)	20.0 (0.76)
C Stem dia. mm (in.)	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)	0.8 (0.04)	1.0 (0.04)
D EWL* mm (inch)	7.0 (0.28)	12.0 (0.48)	7.0 (0.28)	12.5 (0.50)	12.5 (0.50)
Mass grammes	0.48	0.32	0.50	0.41	0.50

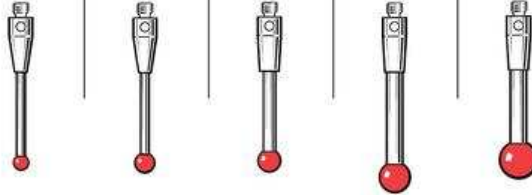
20 mm range



Ruby ball styli (tungsten carbide stems) – continued

Part number	A-5003-3822	A-5003-1896	A-5003-0938	A-5003-1029	A-5003-0046
A Ball dia. mm (inch)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
B Length mm (inch)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	22.0 (0.87)	20.0 (0.79)
C Stem dia. mm (in.)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)
D EWL* mm (inch)	12.0 (0.48)	15.5 (0.62)	20.0 (0.79)	22.0 (0.87)	20.0 (0.79)
Mass grammes	0.48	0.50	0.77	1.24	1.98

20 mm range

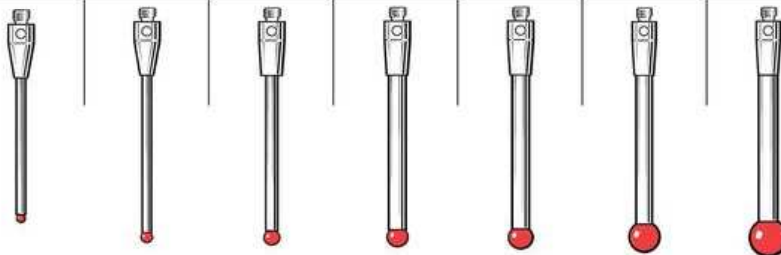


M2 threaded
stylus range

3.2

Part number	A-5000-8663	A-5003-0035	A-5003-0036	A-5003-0038	A-5003-0040	A-5003-0043	A-5003-0047
A Ball dia. mm (inch)	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 Length mm (inch)	27.0 (1.07)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
C Stem dia. mm (in.)	0.7 (0.03)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)
D EWL* mm (inch)	20.5 (0.81)	25.0 (0.99)	25.0 (0.99)	25.0 (0.99)	25.0 (0.99)	30.0 (1.19)	30.0 (1.19)
Mass grammes	0.40	0.58	0.99	1.48	1.49	1.57	2.57

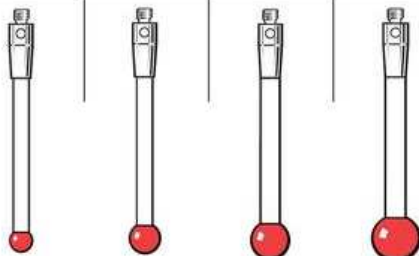
30 mm range



Ruby ball styli (ceramic stems)

Part number	A-5003-4177	A-5003-1370	A-5003-4779	A-5003-4780
A Ball dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
B Length mm (inch)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
C Stem dia. mm (in.)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)
D EWL* mm (inch)	27.5 (1.09)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
Mass grammes	0.44	0.68	0.93	1.11

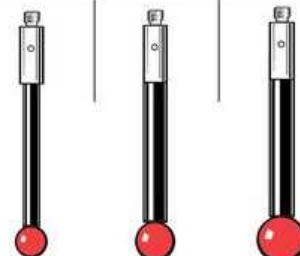
30 mm range



Ruby ball styli (carbon fibre stems)

Part number	A-5003-4241	A-5003-4781	A-5003-4782
A Ball dia. mm (inch)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
B Length mm (inch)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
C Stem dia. mm (in.)	2.0 (0.08)	3.0 (0.12)	3.0 (0.12)
D EWL* mm (inch)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
Mass grammes	0.57	0.79	0.96









30 mm range



*Effective working length





Ruby ball styli (tungsten carbide stems)

Part number	A-5003-0037	A-5003-0039	A-5003-0041	A-5003-0044	A-5003-0048	A-5003-0042	A-5003-0045	A-5003-0049
A Ball dia. mm (inch)	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 (inch)	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 (inch)	35.0 (1.38)	35.0 (1.38)	35.0 (1.38)	40.0 (1.58)	40.0 (1.58)	42.5 (1.68)	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 range					
50 mm range					




Ruby ball styli (ceramic stems)

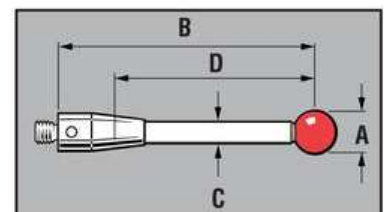
Part number	A-5003-0064	A-5003-0065	A-5003-0066	A-5003-0470
A Ball dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
B Length mm (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
C Stem dia. mm (in.)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)
D EWL* mm (inch)	42.5 (1.68)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
Mass grammes	0.83	0.91	1.31	1.49

50 mm range				
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Ruby ball styli (carbon fibre stems)

Part number	A-5003-2285	A-5003-2286	A-5003-2287
A Ball dia. mm (inch)	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)
C Stem dia. mm (in.)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)
D EWL* mm (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
Mass grammes	1.00	1.10	1.20

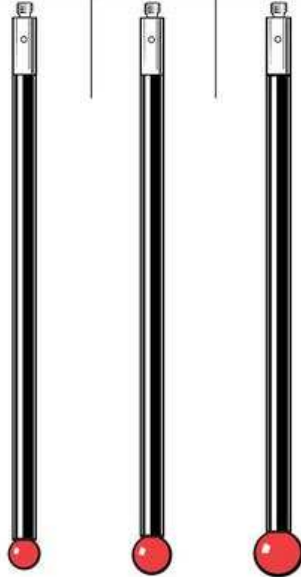
50 mm range			
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Ruby ball styli (carbon fibre stems)

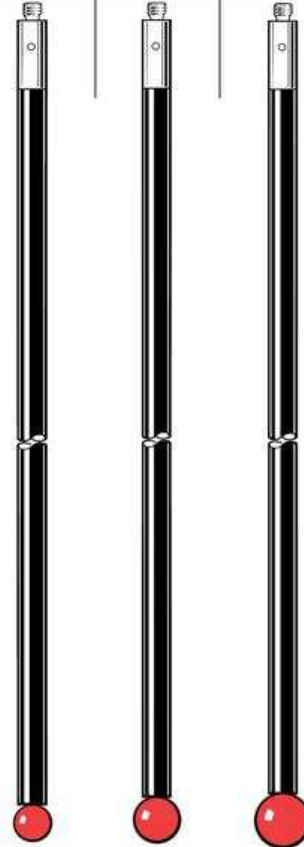
Part number	A-5003-4784	A-5003-4785	A-5003-4786
A Ball dia. mm (inch)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
B Length mm (inch)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)
C Stem dia. mm (in.)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)
D EWL* mm (inch)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)
Mass grammes	0.78	1.27	1.45

75 mm range



Part number	A-5003-2289	A-5003-2290	A-5003-2291
Ball dia. mm (inch)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
Length mm (inch)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
Stem dia. mm (in.)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)
EWL* mm (inch)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
Mass grammes	1.50	1.59	1.78

100 mm range

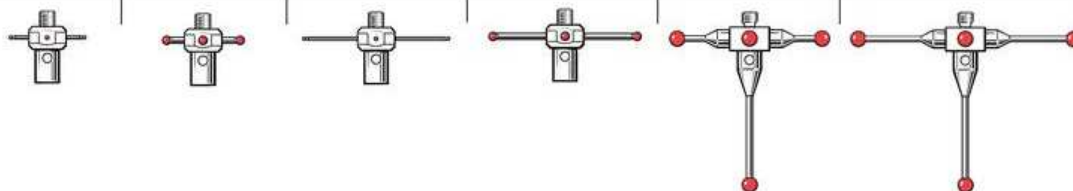


M2 threaded
stylus range

3.4

Star styli (fixed)

Part number	A-5003-4011	A-5000-7811	A-5003-4787	A-5003-4788	A-5000-7629	A-5000-3626
Span mm (inch)	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 mm (inch)	0.5 (0.02)	1.0 (0.04)	0.5 (0.02)	1.0 (0.04)	2.0 (0.08)	2.0 (0.08)
Stem dia. mm (in.)	0.3 (0.012)	0.7 (0.03)	0.3 (0.012)	0.7 (0.03)	1.4 (0.06)	1.4 (0.06)
EWL* mm (inch)	NA	NA	NA	NA	12.0 (0.48)	12.0 (0.48)
Mass grammes	0.7	0.5	0.7	0.9	1.3	1.8



*Effective working length

Styli and accessories

M2 threaded
stylus range

3.5

Star styli centres

Part number	A-5003-4789	A-5003-4790	A-5003-4791	A-5000-3609
Ball dia. mm (inch)	1.0 (0.04)	0.5 (0.02)	1.0 (0.04)	2.0 (0.08)
Stem dia. mm (inch)	0.7 (0.03)	0.4 (0.02)	0.7 (0.03)	1.4 (0.06)
EWL* mm (inch)	4.0 (0.16)	7.0 (0.28)	11.0 (0.44)	12.0 (0.48)
Mass grammes	0.31	0.43	0.45	0.44



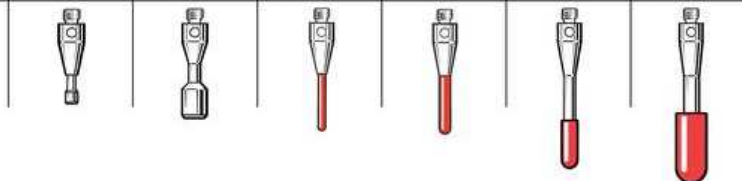
Disc styli

Part number	A-5000-3611 Ruby	A-5000-4187 Silver steel	A-5000-7809 Silver steel	A-5000-3613 Silver steel	A-5000-7810 Silver steel
Disc dia mm (inch)	6.0 (0.24)	25.0 (0.99)	18.0 (0.71)	18.0 (0.71)	25.0 (0.99)
Disc depth mm (inch)	1.2 (0.05)	3.0 (0.12)	1.5 (0.06)	2.2 (0.09)	1.5 (0.06)
Roller depth mm (inch)	2.0 (0.08)	NA	2.5 (0.10)	3.0 (0.12)	2.5 (0.10)
Stem dia. mm (inch)	2.0 (0.08)	NA	3.0 (0.12)	NA	3.0 (0.12)
Mass grammes	0.6	3.8	3.0	2.7	4.0



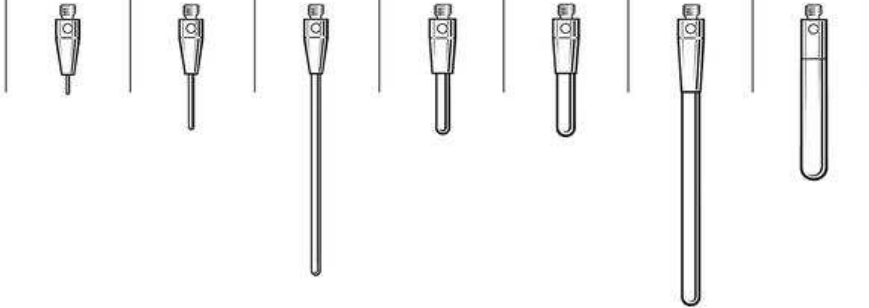
Cylinder styli

Part number	M-5000-4152 Silver steel	M-5000-4153 Silver steel	A-5000-8876 Ruby	A-5000-8877 Ruby	A-5000-7812 Ruby	A-5003-0073 Ruby
Cylinder dia mm (inch)	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.)	11.0 (0.44)	13.0 (0.52)	15.0 (0.60)	15.0 (0.60)	20.0 (0.79)	20.0 (0.79)
Stem dia. mm (inch)	1.0 (0.04)	1.5 (0.06)	NA	NA	1.6 (0.07)	2.0 (0.08)
EWL* mm (inch)	1.5 (0.06)	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



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 (inch)	0.3 (0.012)	0.5 (0.02)	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 (inch)	2.7 (0.11)	7.8 (0.31)	29.8 (1.18)	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

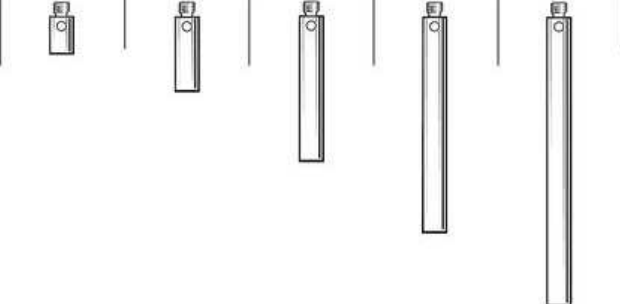


M2 threaded
stylus range

3.6

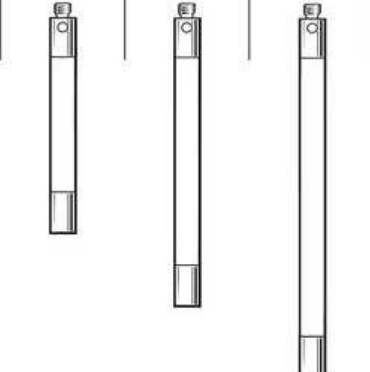
Stylus extensions (stainless steel)

Part number	M-5000-7634	M-5000-3647	M-5000-3648	M-5000-4162	M-5000-7779
Length mm (inch)	5.0 (0.20)	10.0 (0.40)	20.0 (0.79)	30.0 (1.19)	40.0 (1.58)
Stem dia. mm (inch)	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 (inch)	30.0 (1.19)	40.0 (1.58)	50.0 (1.97)
Stem dia. mm (inch)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)
Mass grammes	0.97	1.22	1.51



*Effective working length

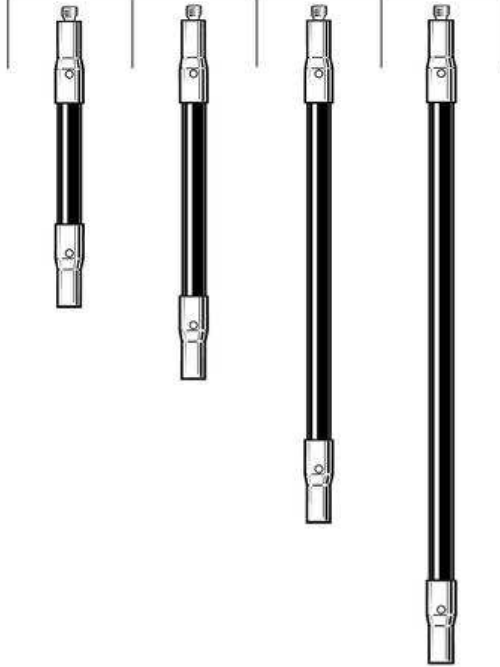
Styli and accessories

M2 threaded
stylus range

3.7

Stylus extensions (carbon fibre)

Part number	A-5003-2280	A-5003-2281	A-5003-2282	A-5003-2283
Length mm (inch)	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



Special purpose styli

Part number	M-5000-4150 Silver steel	A-5000-7813 Tungsten carbide	A-5000-3614 Ceramic
Length mm (inch)	15.0 (0.60)	10.0 (0.40)	11.0 (0.44)
Ball dia. mm (inch)	NA	NA	18.0 (0.71)
End feature mm (inch)	Flat Rad 0.05 (0.002)	Spherical Rad 0.1 (0.004)	NA
Mass grammes	0.7	0.7	3.3
Angles:	30° inclusive	30° inclusive	NA

