

# Styli and accessories

When precision counts, insist on genuine Renishaw styli. Don't settle for less!





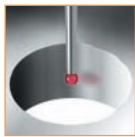
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# Technical specifications

## Ball material properties

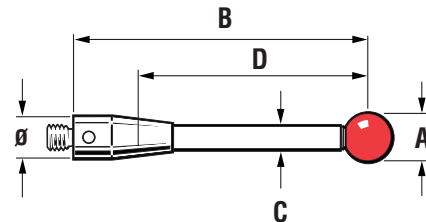
Stylus type	Material	Grade	Deviation from spherical form	Structure	Composition	Purity	Density	Hardness	Compression strength	Bending strength	Fracture toughness K1c
			( $\mu\text{m}$ )	–	(wt%)	(%)	( $\text{g}/\text{cm}^3$ )	HV	(MPa)	(MPa)	( $\text{MN}/\text{m}^{3/2}$ )
AL <sub>2</sub> O <sub>3</sub> Ruby balls	Synthetic ruby monocrystalline	Grade 5*	0.13	mono	99% AL <sub>2</sub> O <sub>3</sub>	99.90	3.99	2300	2100	400-700	1
Silicon nitride balls	Hard pressed Si <sub>3</sub> N <sub>4</sub>	Grade 5*	0.13	poly	Si <sub>3</sub> N <sub>4</sub>	90	3.0-3.2	1600	3000	850	6
Zirconia oxide balls	Sintered ZrO <sub>2</sub>	Grade 5*	0.13	poly	ZrO <sub>2</sub>	90-95	6.05	1200	2000	1000	10
Alumina hollow balls	White ceramic sintered alumina AL <sub>2</sub> O <sub>3</sub>	–	1	poly	AL <sub>2</sub> O <sub>3</sub>	99.80	3.8-3.9	1900	2500	350	3.5
Silver steel discs	Silver steel	–	1	–	–	–	8	450	–	–	–
Silver steel simple cylinder	Silver steel	–	Roundness 4 $\mu\text{m}$	–	–	–	8	200	–	–	–
Ruby ball ended cylinder	Synthetic ruby	Ball: Grade 5*	Ball deviation from spherical form : 0.13 Concentricity: Ball/cylinder 4 $\mu\text{m}$	mono	99% AL <sub>2</sub> O <sub>3</sub>	99.90	3.99	2300	2300	400-700	1
Tungsten carbide ball ended cylinder	Tungsten carbide	–	+ 20 $\mu\text{m}$ end radius	–	92-93.5% WC 6.5-8% CO	14.8	14.95	1550	6000	–	–
Silver steel simple pointer	Silver steel	–	Cone angle 30°	–	–	–	8	300	–	–	–
Tungsten carbide radius end pointer	Tungsten carbide	–	Cone angle 30°	–	92-93.5% WC 6.5-8% CO	99.90	15	1550	6000	–	–
Aluminium hollow balls	Al. alloy 6082-T6	–	30 $\mu\text{m}$	–	95.2-98.3% AL	–	2.7	95	–	–	–

\* Refers to DIN-5401 ball grade standards

\* Grade 3 sphericity balls are available on request.

## Extension material properties

Material	Coeff. of expansion @25°C
Stainless steel	$16 \times 10^{-6}/^\circ\text{C}$
Tungsten carbide	$5 \times 10^{-6}/^\circ\text{C}$
White ceramic sintered alumina	$8.1 \times 10^{-6}/^\circ\text{C}$
Carbon fibre	$-0.4 \times 10^{-6}/^\circ\text{C}$
Titanium	$9.2 \times 10^{-6}/^\circ\text{C}$
Ruby	$4.5 \times 10^{-6}/^\circ\text{C}$
Silicon nitride	$3.2 \times 10^{-6}/^\circ\text{C}$
Zirconia	$10.5 \times 10^{-6}/^\circ\text{C}$



- A** Ball diameter
- B** Overall length
- C** Stem diameter
- D** Effective working length
- $\varnothing$  M2 = 3 mm
- $\varnothing$  M3 = 4 mm
- $\varnothing$  M4 = 7 mm
- $\varnothing$  M5 = 10 mm

# M2 styli and extensions quick reference guide\*

## Ruby ball / stainless steel stem

Ball diameter	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)
Length 10 mm	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
20 mm	–	–	A-5000-3603	A-5000-7804	A-5000-4160	A-5000-4161	–	–	–

## Ruby ball / tungsten carbide stem

Ball diameter	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)	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)
Length 10 mm	A-5000-7800	A-5000-7805	A-5000-7801	A-5003-1325	–	–	–	–	–	–
20 mm	–	A-5003-1345	A-5003-0577	SEE DRAWING	A-5003-0034	A-5003-3822	A-5003-1896	A-5003-0938	A-5003-1029	A-5003-0046
30 mm	–	–	–	A-5000-8663	A-5003-0035	A-5003-0036	A-5003-0038	A-5003-0040	A-5003-0043	A-5003-0047
40 mm	–	–	–	–	–	A-5003-0037	A-5003-0039	A-5003-0041	A-5003-0044	A-5003-0048
50 mm	–	–	–	–	–	–	–	A-5003-0042	A-5003-0045	A-5003-0049

## Ruby ball / ceramic stem

Ball diameter	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
Length 30 mm	A-5003-4177	A-5003-1370	A-5003-4779	A-5003-4780
50 mm	A-5003-0064	A-5003-0065	A-5003-0066	A-5003-0470

## Ruby ball / carbon fibre stem

Ball diameter	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
Length 30 mm	A-5003-4241	A-5003-4781	A-5003-4782
50 mm	A-5003-2285	A-5003-2286	A-5003-2287
75 mm	A-5003-4784	A-5003-4785	A-5003-4786
100 mm	A-5003-2289	A-5003-2290	A-5003-2291

## Stylus extensions

Length	5.0 (0.20)	10.0 (0.40)	20.0 (0.80)	30.0 (1.19)	40.0 (1.58)	50.0 (1.97)	70.0 (2.76)	90.0 (3.55)
Stainless steel	M-5000-7634	M-5000-3647	M-5000-3648	M-5000-4162	M-5000-7779	–	–	–
Ceramic	–	–	–	A-5003-0070	A-5003-0071	A-5003-0072	–	–
Carbon fibre	–	–	–	–	A-5003-2280	A-5003-2281	A-5003-2282	A-5003-2283

\* These are a selection of the most popular styli

# M3 styli and extensions quick reference guide\*

## Ruby ball / stainless steel stem

Ball diameter		1.0 (0.04)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Length	21 mm	A-5000-3551	A-5000-3552	A-5000-3553	A-5000-7606	A-5000-7630
	31 mm	-	-	-	A-5000-3554	A-5000-7648

## Ruby ball / tungsten carbide stem

Ball diameter		0.5 (0.02)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Length	21 mm	A-5000-7632	A-5003-0050	-	A-5003-0054	-	-	-
	30 mm	-	A-5003-0051	A-5003-0052	A-5003-0055	A-5003-0057	-	-
	40 mm	-	-	A-5003-0053	A-5003-0056	A-5003-0058	A-5003-0060	A-5003-0062
	50 mm	-	-	-	-	A-5003-0059	A-5003-0061	A-5003-0063

## Ruby ball / ceramic stem

Ball diameter		3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Length	50 mm	A-5003-0067	A-5003-0068	A-5003-0069

## Ruby ball / carbon fibre stem

Ball diameter		6.0 (0.24)	8.0 (0.32)
Length	75 mm	A-5003-4860	A-5003-4861
	100 mm	A-5003-4862	A-5003-4863

## Stylus extensions

Length		10.0 (0.40)	20.0 (0.80)	35.0 (1.38)	50.0 (1.97)	70.0 (2.76)
Stainless steel		M-5000-7633	M-5000-3592	M-5000-3593	-	-
Ceramic		-	-	-	A-5003-0075	-
Carbon fibre		-	-	-	A-5003-4864	A-5003-4865

\*These are a selection of the most popular styli

# M4 styli and extensions quick reference guide\*

## Ruby ball / stainless steel stem

Ball diameter		1.0 (0.04)	2.0 (0.08)	3.0 (0.012)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)
Length	10 mm	–	–	–	–	A-5000-6350	–	–
	20 mm	A-5000-7545	A-5000-7547	A-5000-7549	A-5000-7551	SEE DRAWING	A-5000-7555	A-5000-7557
	30 mm	–	–	–	–	A-5000-6352	–	–
	50 mm	–	–	–	–	A-5000-7521	–	–
	100 mm	–	–	–	–	A-5000-7522	–	–

## Ruby ball / tungsten carbide stem

Ball diameter		1.0 (0.04)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
Length	20 mm	A-5003-4792	A-5003-2932	A-5003-4793	A-5003-4794	A-5003-4795	A-5003-4796
	50 mm	–	A-5003-4797	A-5003-3680	A-5003-4799	A-5003-4800	A-5003-4801

## Ruby ball / ceramic stem

Ball diameter		5.0 (0.20)	6.0 (0.24)	8.0 (0.32)
Length	50 mm	A-5003-0235	A-5000-3709	A-5000-7795
	75 mm	A-5003-0236	A-5003-2764	A-5003-4802
	100 mm	A-5000-9761	A-5000-3712	A-5000-7796

## Ruby ball / carbon fibre stem

Ball diameter		6.0 (0.24)	8.0 (0.32)
Length	50 mm	A-5003-1436	–
	100 mm	A-5003-1358	–
	150 mm	A-5003-1255	–
	200 mm	A-5003-1075	–
	300 mm	–	A-5003-3461

## Stylus extensions

Length	10.0 (0.41)	15.0 (0.60)	20.0 (0.79)	30.0 (1.19)	50.0 (1.97)	100.0 (3.94)
Stainless steel	M-5000-7583	M-5000-7584	M-5000-7585	M-5000-7586	–	–
Ceramic	–	–	–	A-5000-7754	A-5000-7755	A-5000-7727

\*These are a selection of the most popular styli

# M5 styli and extensions quick reference guide\*

## Ruby ball / tungsten carbide stem

Ball diameter	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)	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)
Length 20 mm	A-5003-5201	A-5003-5202	A-5003-5203	A-5003-5204	A-5003-5205	A-5003-5206	A-5003-5207	A-5003-5208	A-5003-5209	A-5003-5210
30 mm	A-5003-5211	A-5003-5212	A-5003-5213	A-5003-5214	A-5003-5215	A-5003-5216	A-5003-5217	A-5003-5218	A-5003-5219	A-5003-5220
40 mm	–	–	–	–	A-5003-5221	A-5003-5222	A-5003-5223	A-5003-5224		
50 mm	A-5003-5225	A-5003-5226	A-5003-5227	A-5003-5228	A-5003-5229	SEE DRAWING	A-5003-5232	A-5003-5234	A-5003-5235	A-5003-5236
75 mm	A-5003-5240	A-5003-5241	A-5003-5242	A-5003-5243	A-5003-5244	–	–	A-5003-5253	SEE DRAWING	SEE DRAWING
100 mm	–	–	–	–	–	–	A-5003-5254			

## Ruby ball / carbon fibre stem

Ball diameter	2.5 (0.10)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
Length 20 mm	–	–	–	–
30 mm	–	–	–	–
40 mm	–	–	–	–
50 mm	–	A-5003-5237	A-5003-5238	A-5003-5239
75 mm	–	A-5003-5250	A-5003-5251	A-5003-5252
100 mm	–	SEE DRAWING	SEE DRAWING	SEE DRAWING
150 mm	–	A-5003-5265	A-5003-5266	A-5003-5267
200 mm	–	A-5003-5268	A-5003-5269	A-5003-5270
300 mm	–	A-5003-5271	A-5003-5272	A-5003-5273

## Stylus extensions

Length	10.0 (0.41)	20.0 (0.79)	30.0 (1.19)	40.0 (1.58)	50.0 (1.97)	60.0 (2.37)	70.0 (2.76)	80.0 (3.15)	90.0 (3.55)	100.0 (3.94)
CF/Titanium (Ø11 mm)	–	–	–	A-5555-0647	A-5555-0647	A-5555-0649	A-5555-0623	A-5555-0650	A-5555-0651	A-5555-0652
CF/Titanium (Ø20 mm)	–	–	–	A-5555-0620	A-5555-0657	A-5555-0658	–	A-5555-0621	–	A-5555-0659
Stainless steel	A-5555-0142	A-5555-0140	A-5555-0669	–	A-5555-0670	–	–	–	–	A-5555-0136
Aluminium tube	–	–	–	–	A-5555-0671	–	–	–	–	A-5555-0127

Length	120.0 (4.76)	150.0 (5.91)	180.0 (7.09)	200.0 (7.88)	250.0 (9.85)	300.0 (11.82)	400.0 (15.76)	500.0 (19.70)	600.0 (23.64)
CF/Titanium (Ø11 mm)	A-5555-0425	A-5555-0424	A-5555-0653	A-5555-0654	A-5555-0655	A-5555-0642	A-5555-0656	–	–
CF/Titanium (Ø20 mm)	A-5555-0660	A-5555-0620	A-5555-0662	A-5555-0663	A-5555-0427	A-5555-0664	A-5555-0665	A-5555-0667	A-5555-0668
Stainless steel	–	–	–	–	–	–	–	–	–
Aluminium tube	–	–	–	A-5555-0125	–	–	–	–	–

\*These are a selection of the most popular styli

## Accuracy at the point of contact

As industry has developed its requirement for increasingly diverse and complex manufactured parts, inspection systems have had to work hard to keep up. The use of co-ordinate measuring machines (CMMs) with probing systems and in-process inspection on machine tools are two of the solutions offered by Renishaw to help you maximise your productivity and maintain the highest quality.

Successful gauging depends very much on the ability of the probe's stylus to access a feature and then maintain accuracy at the point of contact. At Renishaw, we have used our expertise in probe and stylus design to develop a comprehensive range of CMM and machine tool styli to offer you the greatest possible precision.

These notes explain the critical features of every stylus type, helping you to choose the right design for each inspection need.

## What is a stylus?

A stylus is that part of the measuring system which makes contact with the component, causing the probe's mechanism to displace. The generated signal enables a measurement to be taken. The feature to be inspected dictates the type and size of stylus used. In all cases, however, maximum rigidity of the stylus and perfect sphericity of the tip are vital.

To achieve this, Renishaw's stylus stems are produced on CNC machine tools to exacting standards. Great care is taken to ensure that location faces give maximum stiffness whilst stylus mass is optimised to suit Renishaw's range of probes.

Genuine Renishaw stylus balls are produced to the highest standards and are bonded to the stems in such a way as to ensure maximum joint integrity.

The performance of your gauging can easily be degraded if you use a stylus with poor ball roundness, poor ball location, bad thread fit or a compromised design that allows excessive bending during measurement. To ensure the integrity of the data you gather, make certain that you specify and use a stylus from the comprehensive range of genuine Renishaw styli.

## What naming protocol do Renishaw use to describe their styli range?

Renishaw uses the following naming protocol to allow easy identification of styli by name and part number. The examples below show how this protocol is assigned and describe the abbreviations used:

### Straight styli

**M2 STY D2R L20 EWL14 d1.4SS**

The above protocol describes an M2 threaded straight stylus fitted with a 2 mm diameter ruby ball. It has an overall length of 20 mm, has an effective working length (EWL) of 14 mm and has a 1.4 mm diameter stainless steel stem.

### Star styli

**M2 STR D2R L20 5BALL L19.5 S32**

The above protocol describes an M2 threaded star stylus fitted with a 2 mm diameter ruby ball. It has 5 balls on the star and an overall length of 19.5 mm (from the centre of the ball to the rear of the star mounting face when assembled to a probe). The span of the star cluster is 32 mm.

### Disc styli

**M2 DSC SD18 SLVS T2.2 L2.6 BR-Y**

The above protocol describes an M2 threaded disc stylus with a spherical diameter disc of 18 mm. It is made from silver steel with a disc thickness of 2.2 mm and a length of 2.6 mm. BR stands for balls/rollers followed by yes (Y) or no (N).

### Cylinder styli

**M2 CYL D3 SLVS L13 EWL4**

The above protocol describes an M2 threaded cylinder stylus with a critical measuring element diameter of 3 mm made from silver steel. It has an overall length of 13 mm and an EWL of 4 mm.

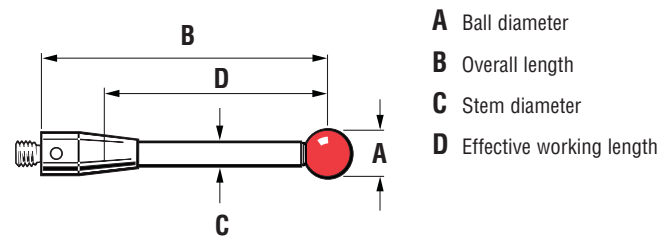
### Extensions

**M4 EXT L15 d7 SS**

The above protocol describes an M4 threaded extension with a length of 15 mm diameter and a diameter of 7 mm. The extension is made from stainless steel.



## Terminology



- A** Ball diameter
- B** Overall length
- C** Stem diameter
- D** Effective working length

### Overall length

Renishaw uses a standard description of overall length, measuring from the rear mounting face of the stylus to the centre of the ball.

### Effective working length (EWL)

This is measured from the centre of the ball to the point at which the stem will foul against the feature when measuring 'normal' to the part.

## Choosing a stylus

To maintain accuracy at the point of contact we recommend that you:-

### Keep styli short

The more that a stylus bends or deflects, the lower the accuracy. Probing with the minimum stylus length for your application is the best option.

### Minimise joints

Every time you join styli and extensions, you introduce potential bending and deflection points. Try, wherever possible, to keep to the minimum number of pieces for your application.

### Keep the ball as large as possible

There are two reasons for this,

- firstly, it maximises your ball/stem clearance thereby reducing the chances for false triggers caused by 'shanking out' on the stylus stem;
- secondly, the larger ball reduces the effect of the surface finish of the component being inspected.

## The range of genuine Renishaw styli

### Ball material

#### Ruby

The industry standard and the optimum stylus ball material for a vast majority of measurement applications, ruby is one of the hardest known materials. Synthetic ruby is 99% pure aluminium oxide which is grown into crystals (or "boules") at 2000 °C using the Verneuil process.

The boules are then cut and gradually machined into a highly spherical form. Ruby balls are exceptionally smooth on the surface, have great compressive strength and a high resistance to mechanical corrosion.

Very few applications exist where ruby is not the preferred ball material, however there are two applications where balls manufactured from other materials are recommended.

The first is for heavy duty scanning applications on aluminium. Because the materials attract, a phenomenon known as 'adhesive wear' can occur which involves build up of aluminium from the surface onto the ball. A better ball material for such applications is silicon nitride.

The second is in heavy duty scanning applications on cast iron. Interaction between the two materials can result in 'abrasive wear' of the ruby ball surface. For such applications, Zirconia balls are recommended.

#### Silicon nitride

Silicon nitride possesses many similar properties to ruby. It is a very hard and wear-resistant ceramic which can be machined into very high precision spheres. It can also be polished to an extremely smooth surface finish. Silicon nitride does not have the attraction to aluminium and so does not exhibit the adhesive wear seen with ruby in similar applications. However, silicon nitride does show significant abrasive wear characteristics when scanning on steel surfaces and so its applications are best confined to aluminium.

#### Zirconia

Zirconia is a particularly tough ceramic material with hardness and wear characteristics approaching those of ruby. Its surface properties make it an ideal material for aggressive scanning applications on cast iron components.

### Stem material

#### Steel

Stylus stems manufactured from stainless steel are used widely for styli with ball/tip diameters of 2 mm or greater and with lengths up to 30 mm. Within this range, one-piece steel stems offer the optimum stiffness to weight ratio, giving adequate ball/stem clearance without compromising stiffness with a joint between the stem and threaded body.

Please contact us if you require any styli with special ball materials. We can recommend the most suitable material for scanning different materials

## Tungsten carbide

Tungsten carbide stems are best used for maximising stiffness with either small stem diameters required for ball diameters of 1 mm and below, or lengths up to 50 mm. Beyond this, weight can become a problem and stiffness is lost due to deflection at the stem to body joint.

## Ceramic

For ball diameters greater than 3 mm, and lengths over 30 mm, ceramic stems offer stiffness comparable to steel but are significantly lighter than tungsten carbide. Ceramic stemmed styli can also offer additional crash protection to your probe as the stem will shatter in a collision.

## Carbon fibre (Renishaw GF)

There are many grades of carbon fibre materials. However, Renishaw GF combines optimum stiffness characteristics, both longitudinally and in torsion (important in star constructions), with extremely low weight. Carbon fibre is inert and this, combined with a special resin matrix, provides excellent protection in the most hostile of machine tool environments.

Renishaw GF is ideal for maximising stiffness while giving very low mass for styli above 50 mm in length. It is the optimum stem material for high accuracy strain gauge technology probes with excellent vibration damping characteristics and negligible co-efficient of thermal expansion.

The genuine Renishaw stylus range comprises several types:

### Straight styli



These are the simplest form of stylus, incorporating highly spherical industrial ruby balls and a choice of stem material.

Ruby is an extremely hard material and hence stylus wear is minimised. It is also of low density, keeping tip mass to a minimum, which avoids unwanted probe triggers caused by machine motion or vibration.

Mounted on stems made from a range of materials – stainless steel, tungsten carbide, ceramic and a specialised carbon fibre material, “Renishaw GF” – these simple ruby ball styli are suitable for most inspection applications.

Each stylus has an effective working length (EWL) which is the penetration that can be achieved by the ball before the stem fouls against the feature.

The size of the ball and the EWL of the stylus chosen are dictated by the size of the feature to be inspected. However, keeping the stylus ball as large as possible and the stem as short as possible will ensure maximum ball/stem clearance, whilst providing a greater yet still rigid EWL. Using larger ruby balls also reduces the effect of the surface finish of the component being inspected.

Probing with very long stylus/extension combinations is not recommended with standard kinematic touch trigger probes as the rigidity is reduced and accuracy lost due to stylus bending. This is not the case with other types of probe such as those with strain gauge technology, as their very low trigger forces permit the use of long stylus/extension combinations without a significant loss of accuracy.

### Star styli



These stylus clusters provide you with multiple-tip probing of complex features and bores. Four or five ruby ball systems are mounted rigidly on a stainless steel centre. Three standard sizes are offered – alternatively, you can create custom-made star styli using a 5-way stylus centre and any of the genuine Renishaw stylus range.

Star styli can be used to inspect a variety of different features. Their use can reduce inspection cycle times by allowing multi-tip probing, minimising the need to move the probe to extreme points of internal features such as the sides or grooves in a bore. Using star styli also allows effective probing in the –Z (upwards) direction when using a 5-way probe, provided that the stylus tips extend beyond the diameter of the probe body. Each tip on a star stylus requires datuming (sometimes referred to as ‘qualifying’ or ‘calibrating’) in the same manner as a single-ball stylus. The ‘span’ of star styli is taken from ball centre to ball centre.

### Disc styli



These styli are used to probe undercuts and grooves within bores which may be inaccessible to star styli. They are ‘sections’ of highly spherical balls and are available in various diameters and thicknesses. Full rotational adjustment and the ability to add a centre stylus are features of the Renishaw range of disc styli that make them particularly flexible and easy to use.

Probing with the 'spherical edge' of a simple disc is effectively the same as probing on or about the equator of a large stylus ball. However, only a small area of this ball surface is available for contact and hence thinner discs require careful angular alignment in order to ensure correct contact with the feature being probed.

A simple disc requires datuming for only one diameter (usually in a ring gauge), but limits effective probing to only X and Y directions.

Adding a 'radius end roller' allows you to datum and hence probe in the Z direction, provided that the centre of the 'radius end roller' extends beyond the diameter of the probe. The 'radius end roller' can be datumed on a sphere or a slip gauge. Rotating and locking the disc about its centre axis allows the 'radius end roller' to be positioned to suit the application.

Discs may also have a threaded centre to allow the fixing of a centre stylus, giving the additional flexibility of probing the bottom of deep bores (where access for the disc may be limited).

**Styli for specialist applications** A range of specialist styli is available to enable probing of features such as thread form, thin sectioned material, tool setting and other specialist applications.

### Cylinder styli



These are used for probing holes in thin sheet material. In addition, various threaded features can be probed and the centres of tapped holes located. Ball-ended cylinder styli allow full datuming and probing in X, Y and Z directions, thus allowing surface inspection to be performed.

### Pointer and ceramic hollow ball styli



Pointer styli are designed for the inspection of thread forms, specific points and scribed lines (to lower accuracy). The use of a radius end pointer stylus allows more accurate datuming and probing of features as detailed above and can also be used to inspect the location of very small holes.

Ceramic hollow ball styli are ideal for probing deep features and bores in X, Y and Z directions, with the need to datum only one ball. There are two versions in the range, 18 and 30 mm diameter, specially designed for the TP2 / TP20 / TP200 and TP6 probes respectively. Probing with such a large diameter ball can average out the effects of very rough surfaces.

### Tool setting styli



Typically, these are fitted with a square tip and can have threaded or plain shaft attachments. The tip faces are ground to ensure high squareness and parallelism. The TS27R tool setting probe for machining centres can also be fitted with a tungsten carbide disc stylus.

### Crash protection device



Renishaw's stylus crash protection devices are designed to break in the event of impact and protect the probe from damage.

### Accessories and tools

A wide range of accessories including extensions, 4 and 5-way centres and stylus knuckles complement the genuine Renishaw stylus range to achieve fully flexible inspection.

### Stylus centres



These provide maximum probing flexibility with a single probe. Taking up to five styli of the same mounting thread, this accessory allows you to build stylus configurations to your own specification.

### Stylus knuckles



These give full adjustment about two axes, allowing the stylus to be orientated to probe angled features. This adjustment is especially useful when the probe cannot be correctly orientated by the probe head, or when access for the head is limited.

### Stylus extensions



These provide additional probing penetration by extending the stylus away from the probe. However, using stylus extensions can reduce probe accuracy due to loss of rigidity. This is not the case with electronic probes, whose extremely low trigger forces render them less sensitive to this type of inaccuracy.

### Stylus thread adaptors



These allow M2, M3, M4 and M5 threaded styli to be interchanged on the majority of touch trigger probes. They are particularly useful for adapting the extensive range of specialised application M2 styli for use on larger probes.

### Stylus tools

Specifically designed for mounting styli correctly onto probes and for the construction of specialised stylus combinations, Renishaw's stylus tools protect your investment.

### The S7 stylus tool



The S7 stylus tool is used for tightening styli and accessories when connecting to one another or directly into the probe. It is specifically designed to yield if excessive tightening force is applied, avoiding damage to the threads of stylus and probe.

### A stylus crank



A stylus crank can allow access to features that are otherwise difficult to reach, and are often used in lathe inspection applications.

### Renishaw stylus kits

Renishaw styli and accessories are available in a wide selection of kits, ranging from a small precision set of the most frequently used styli, to a comprehensive set to meet virtually every inspection need.

Some sets are housed in a quality wooden case for maximum protection and superb presentation. The styli are held in a wood insert, individually located in a nylon sleeve providing protection for the mounting threads. This type of box features a removable module which houses up to twelve ruby ball styli and contains a tray for discs, tools and accessories. This allows the stylus selection for a particular inspection task to be brought to the CMM's table. The sloping lid design of this kit provides easy access to styli, minimising handling of ruby balls and contact surfaces, thus aiding cleanliness.

Probing kits are also available to include a probe, probe head, extension bars and styli.

### Custom design service

If you cannot achieve your objectives using our extensive range of standard products, Renishaw's Styli and Custom Products Division offers a unique service by providing customers with a total solution for their probing needs for CMM, machine tool or scanning applications.

The Division includes expertise in applications, design, engineering and manufacturing with extensive experience in providing tailor-made product solutions to specific customer's requirements.

In many application problems, the solution lies in the choice of the stylus which influences access of the workpiece features, inspection times and probe performance. All of these aspects are considered within the design of a custom stylus, ensuring that the solution incorporates the ideal choice of materials and optimises probe performance for your particular application.

Renishaw's Styli and Custom Products Division has supplied over 5,000 different custom styli into probing applications worldwide, so the solution to your application problem may already exist.

For advice and further details, please contact your nearest Renishaw distributor.

Always use genuine Renishaw styli or your probe performance will be compromised!

# M2 threaded stylus range



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







### Ruby ball styli (stainless steel stems)

**Ball material Part number**





Ball material	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
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
<b>A</b>	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>B</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)
<b>C</b>	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)
<b>D</b>	EWL* mm (inch)	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**






Ball material	Part number	A-5000-3603	A-5000-7804	A-5000-4160	A-5000-4161
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
<b>A</b>	Ball dia. mm (inch)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)
<b>B</b>	Length mm (inch)	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 (0.06)	1.4 (0.06)	1.5 (0.06)	1.5 (0.06)
<b>D</b>	EWL* mm (inch)	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>					

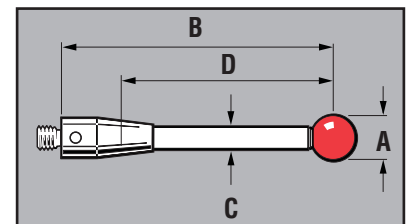
### Ruby ball styli (tungsten carbide stems)

**Ball material Part number**

Ball material	Part number	A-5000-7800	A-5000-7805	A-5000-7801	A-5003-1325
Ruby		A-5000-7800	A-5000-7805	A-5000-7801	A-5003-1325
Silicon nitride		A-5004-2016	A-5003-2020	A-5004-2017	A-5004-2018
<b>A</b>	Ball dia. mm (inch)	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)	1.0 (0.04)
<b>B</b>	Length mm (inch)	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 (0.02)	0.7 (0.03)
<b>D</b>	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
<b>10 mm range</b>					

**Ball material Part number**

Ball material	Part number	A-5003-1345	A-5003-0577	A-5000-7808	A-5003-0033	A-5003-0034
Ruby		A-5003-1345	A-5003-0577	A-5000-7808	A-5003-0033	A-5003-0034
Silicon nitride		A-5004-2019	A-5004-2020	A-5004-1508	A-5004-2021	A-5004-1925
<b>A</b>	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>B</b>	Length mm (inch)	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.)	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)	0.8 (0.04)	1.0 (0.04)
<b>D</b>	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
<b>20 mm range</b>						





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

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-5003-1930	
<b>A</b>	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>B</b>	Length mm (inch)	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 (inch)	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	
<b>A</b>	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>B</b>	Length mm (inch)	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 (0.03)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)
<b>D</b>	EWL* mm (inch)	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

## 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	
<b>A</b>	Ball dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b>	Length mm (inch)	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 (inch)	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	
<b>A</b>	Ball dia. mm (inch)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b>	Length mm (inch)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
<b>C</b>	Stem dia. mm (in.)	3.0 (0.12)	3.0 (0.12)	3.0 (0.12)
<b>D</b>	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)

**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-5003-1959	A-5004-1960	A-5004-1961	A-5004-1962	A-5004-1963	A-5004-1964	A-5004-1965
<b>A</b> 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>B</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)
<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 (inch)	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

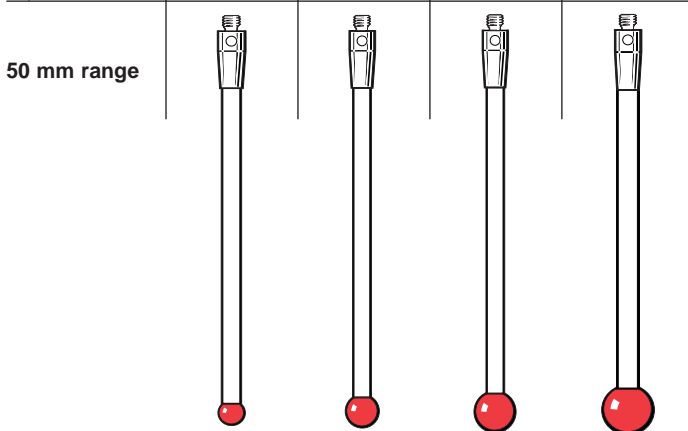
40 mm range

50 mm range

### Ruby ball styli (ceramic stems)

**Ball material Part number**

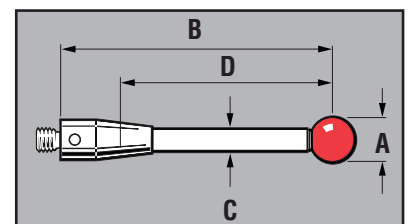
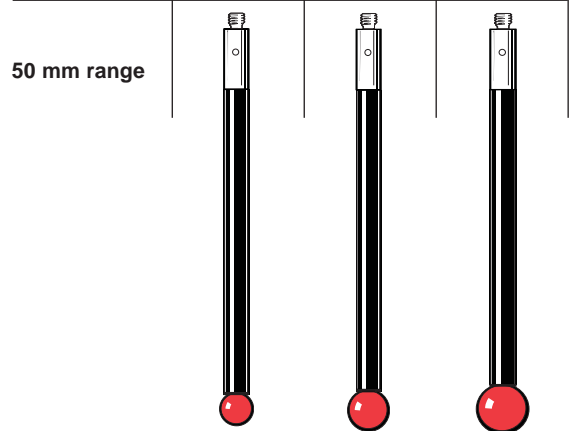
Ruby	A-5003-0064	A-5003-0065	A-5003-0066	A-5003-0470
Silicon nitride	A-5004-1967	A-5004-1519	A-5004-1968	A-5004-1969
<b>A</b> Ball dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b> Length mm (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
<b>C</b> Stem dia. mm (in.)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)
<b>D</b> EWL* mm (inch)	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



### 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
<b>A</b> Ball dia. mm (inch)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)
<b>B</b> Length mm (inch)	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 (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
Mass grammes	1.00	1.10	1.20

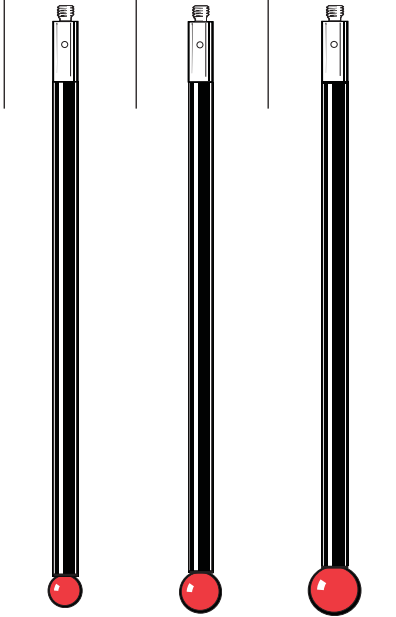


## Ruby ball styli (carbon fibre stems)

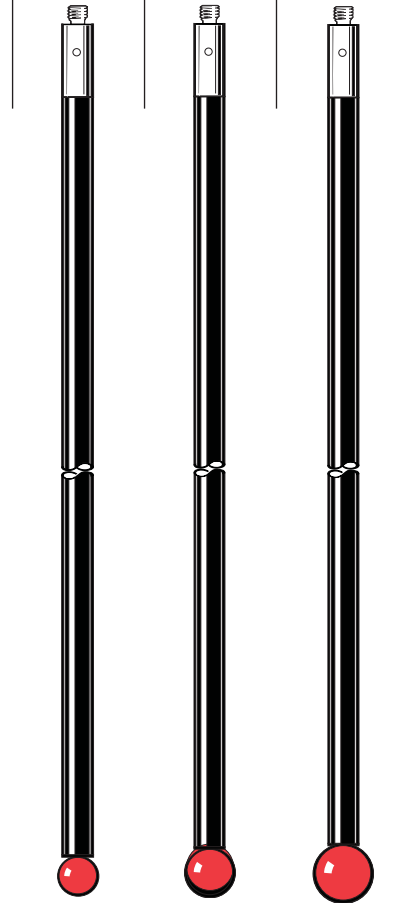
### Ball material Part number

Ball material	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
<b>A</b> Ball dia. mm (inch)	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 (inch)	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 (inch)	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 range



100 mm range

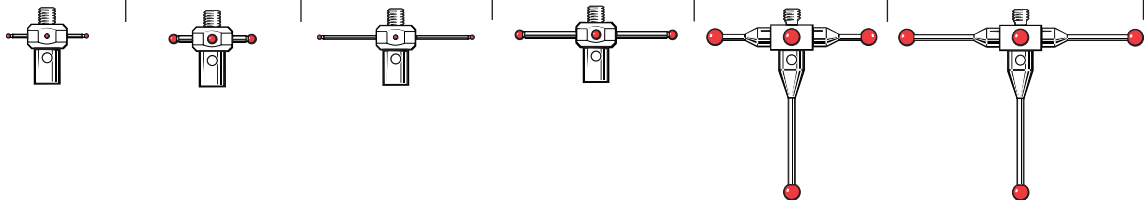


M2 threaded  
stylus range

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





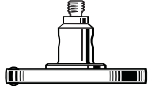



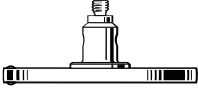

\*Effective working length

### 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)	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 Ruby	A-5004-1387 Silver steel	A-5004-1395 Silver steel	A-5004-1396 Silver steel	A-5000-7809 Silver steel
Disc dia mm (inch)	6.0 (0.24)	10.0 (0.39)	12.0 (0.47)	14.0 (0.55)	18.0 (0.71)
Disc depth mm (inch)	1.2 (0.05)	1.2 (0.05)	1.6 (0.06)	1.6 (0.06)	1.6 (0.07)
Roller depth mm (inch)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)	2.5 (0.10)
Stem dia. mm (inch)	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 Silver steel	A-5000-7810 Silver steel	A-5000-4187 Silver steel
Disc dia mm (inch)	18.0 (0.71)	25.0 (0.99)	25.0 (0.99)
Disc depth mm (inch)	2.3 (0.10)	1.6 (0.07)	3.1 (0.13)
Roller depth mm (inch)	3.0 (0.12)	2.5 (0.10)	NA
Stem dia. mm (inch)	NA	4.2 (0.17)	NA
Mass grammes	2.7	4.0	3.8
			






### 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.)	10.75 (0.42)	12.75 (0.50)	15.0 (0.60)	15.0 (0.60)	21.2 (0.83)	22.0 (0.87)
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)	1.25 (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
						




## 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)	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	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
			

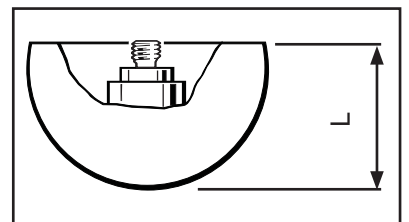
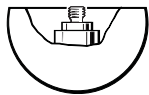
### Stylus extensions (carbon fibre)

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





# M3 threaded stylus range

M3 threaded  
stylus range

4.0



## 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

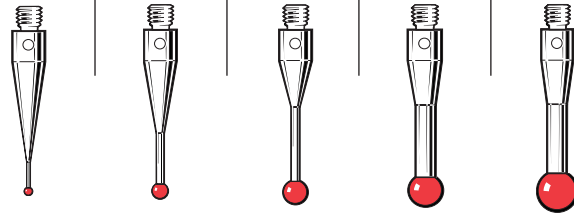
### Ruby ball styli (stainless steel stems)

**Ball material Part number**

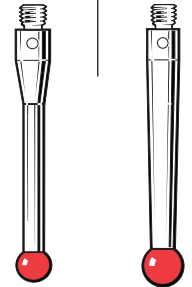
Ball material	Part number	A-5000-3551	A-5000-3552	A-5000-3553	A-5000-7606	A-5000-7630
Ruby			A-5003-5723		A-5003-5061	
Silicon nitride			A-5003-5736		A-5003-5737	
Zirconia						
<b>A</b>	Ball dia. mm (inch)	1.0 (0.04)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
<b>B</b>	Length mm (inch)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)
<b>C</b>	Stem dia. mm (in.)	0.7 (0.03)	1.4 (0.06)	1.5 (0.06)	2.5 (0.10)	2.5 (0.10)
<b>D</b>	EWL* mm (inch)	4.0 (0.16)	9.6 (0.38)	14.7 (0.58)	17.2 (0.68)	21.0 (0.83)
	Mass grammes	1.0	1.0	1.0	1.3	1.5

Ball material	Part number	A-5000-3554	A-5000-7648
Ruby			
Silicon nitride			
Zirconia			
<b>A</b>	Ball dia. mm (inch)	4.0 (0.16)	5.0 (0.20)
<b>B</b>	Length mm (inch)	31.0 (1.23)	31.0 (1.23)
<b>C</b>	Stem dia. mm (in.)	2.5 (0.10)	3.5 (0.14)
<b>D</b>	EWL* mm (inch)	27.0 (1.07)	31.0 (1.23)
	Mass grammes	2.5	3.0

21 mm range



31 mm range



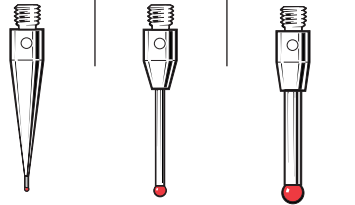
### Ruby ball styli (tungsten carbide stems)

**Ball material Part number**

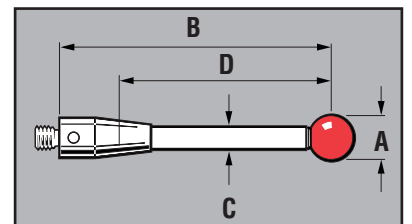
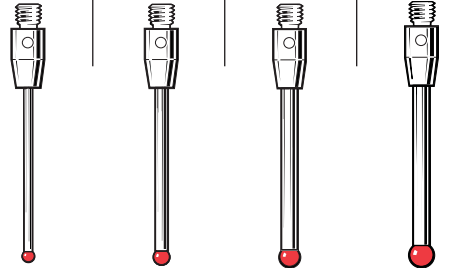
Ball material	Part number	A-5000-7632	A-5003-0050	A-5003-0054
Ruby				
Silicon nitride				
Zirconia				
<b>A</b>	Ball dia. mm (inch)	0.5 (0.02)	1.5 (0.06)	2.5 (0.10)
<b>B</b>	Length mm (inch)	21.0 (0.83)	20.0 (0.78)	20.2 (0.80)
<b>C</b>	Stem dia. mm (in.)	0.4 (0.02)	1.0 (0.04)	2.0 (0.08)
<b>D</b>	EWL* mm (inch)	2.0 (0.08)	12.5 (0.50)	12.5 (0.50)
	Mass grammes	1.0	0.8	1.3

Ball material	Part number	A-5003-0051	A-5003-0052	A-5003-0055	A-5003-0057
Ruby			A-5003-5724		
Silicon nitride			A-5003-5738		
Zirconia					
<b>A</b>	Ball dia. mm (inch)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)
<b>B</b>	Length mm (inch)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
<b>C</b>	Stem dia. mm (in.)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)
<b>D</b>	EWL* mm (inch)	22.5 (0.89)	22.8 (0.90)	22.5 (0.89)	24.0 (0.94)
	Mass grammes	0.93	1.32	1.81	1.83

21 mm range



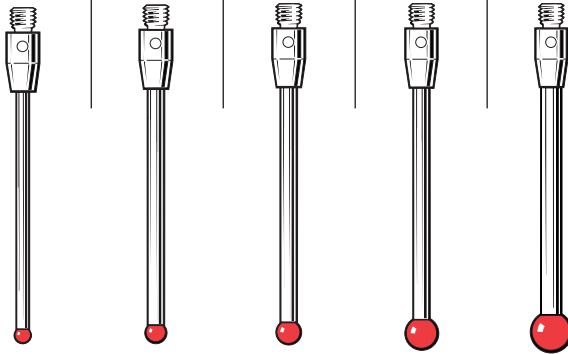
30 mm range



## Ruby ball styli (tungsten carbide stems)

Part number	A-5003-0053	A-5003-0056	A-5003-0058	A-5003-0060	A-5003-0062
<b>A</b> 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>B</b> Length mm (inch)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)
<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)
<b>D</b> EWL* mm (inch)	32.5 (1.28)	32.5 (1.28)	33.7 (1.33)	36.0 (1.42)	40.0 (1.58)
Mass grammes	1.58	2.28	2.30	2.38	3.50

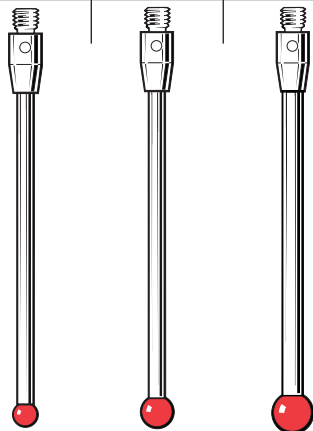
40 mm range



## Ruby ball styli (tungsten carbide stems)

Part number	A-5003-0059	A-5003-0061	A-5003-0063
<b>A</b> Ball dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
<b>B</b> Length mm (inch)	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 (inch)	43.7 (1.72)	46.0 (1.82)	50.0 (1.97)
Mass grammes	2.78	2.85	4.10

50 mm range

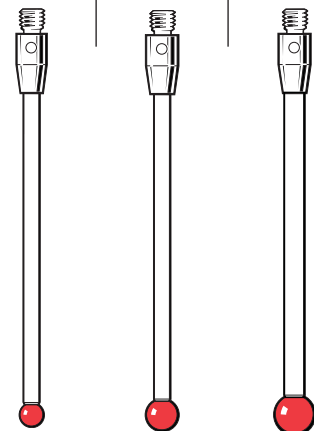


## Ruby ball styli (ceramic stems)

### Ball material Part number

	A-5003-0067	A-5003-0068	A-5003-0069
<b>Ruby</b>			
<b>Silicon nitride</b>		A-5003-5725	
<b>Zirconia</b>		A-5003-5739	
<b>A</b> Ball dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
<b>B</b> Length mm (inch)	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 (inch)	43.7 (1.72)	46.0 (1.82)	50.0 (1.97)
Mass grammes	1.17	1.24	1.33

50 mm range

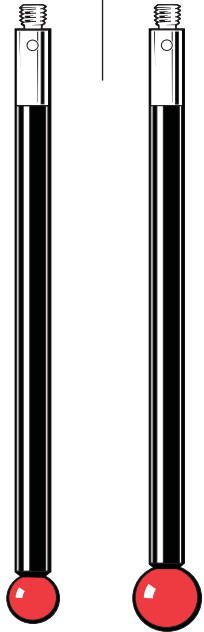


\*Effective working length

Ruby ball styli (carbon fibre stems)

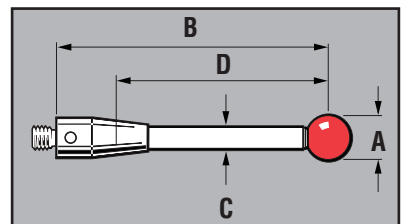
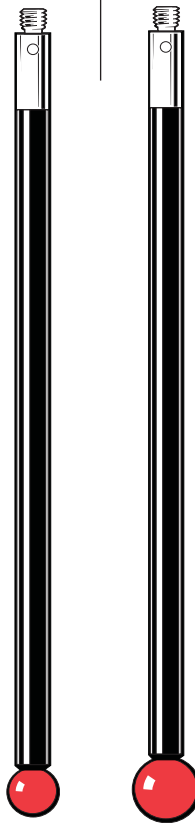
Ball material		Part number	
Ruby		A-5003-4860	A-5003-4862
Silicon nitride		A-5003-5726	
Zirconia		A-5003-5740	
<b>A</b>	Ball dia. mm (inch)	6.0 (0.24)	8.0 (0.32)
<b>B</b>	Length mm (inch)	75.0 (2.96)	75.0 (2.96)
<b>C</b>	Stem dia. mm (in.)	4.0 (0.16)	4.0 (0.16)
<b>D</b>	EWL* mm (inch)	75.0 (2.96)	75.0 (2.96)
	Mass grammes	2.40	2.98

75 mm range



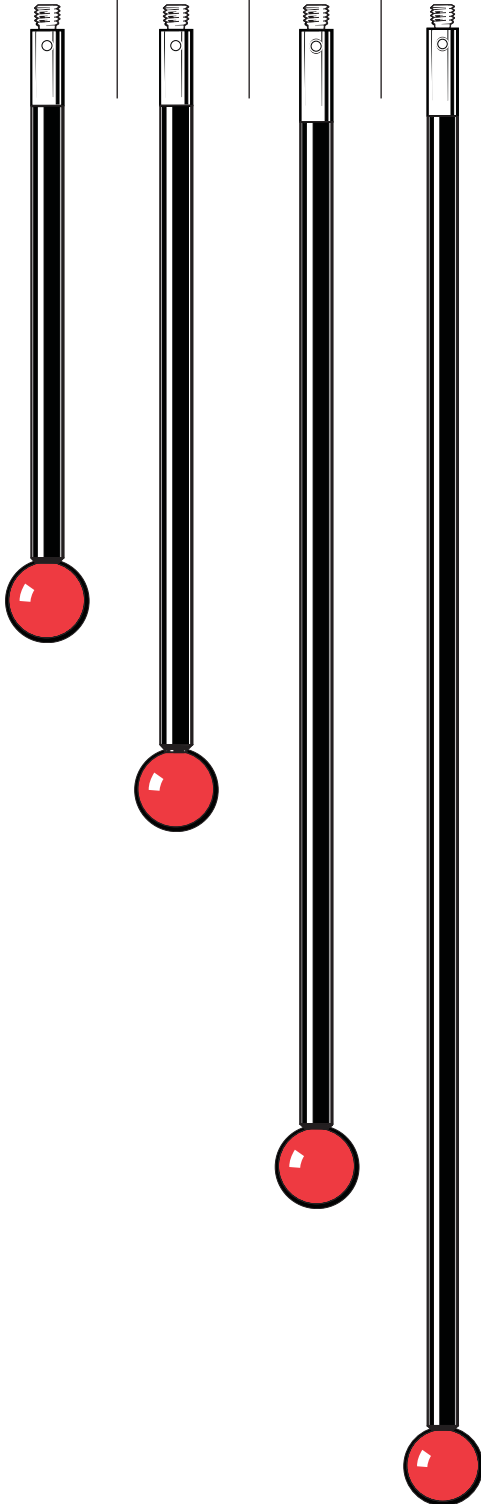
A-5003-4861		A-5003-4863	
A-5003-5727			
A-5003-5741			
	Ball dia. mm (inch)	6.0 (0.24)	8.0 (0.32)
	Length mm (inch)	100.0 (3.94)	100.0 (3.94)
	Stem dia. mm (in.)	4.0 (0.16)	4.0 (0.16)
	EWL* mm (inch)	100.0 (3.94)	100.0 (3.94)
	Mass grammes	2.89	3.47

100 mm range



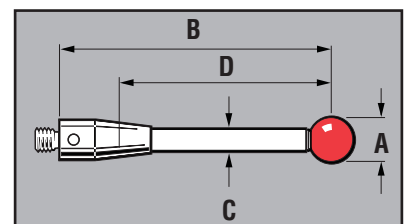
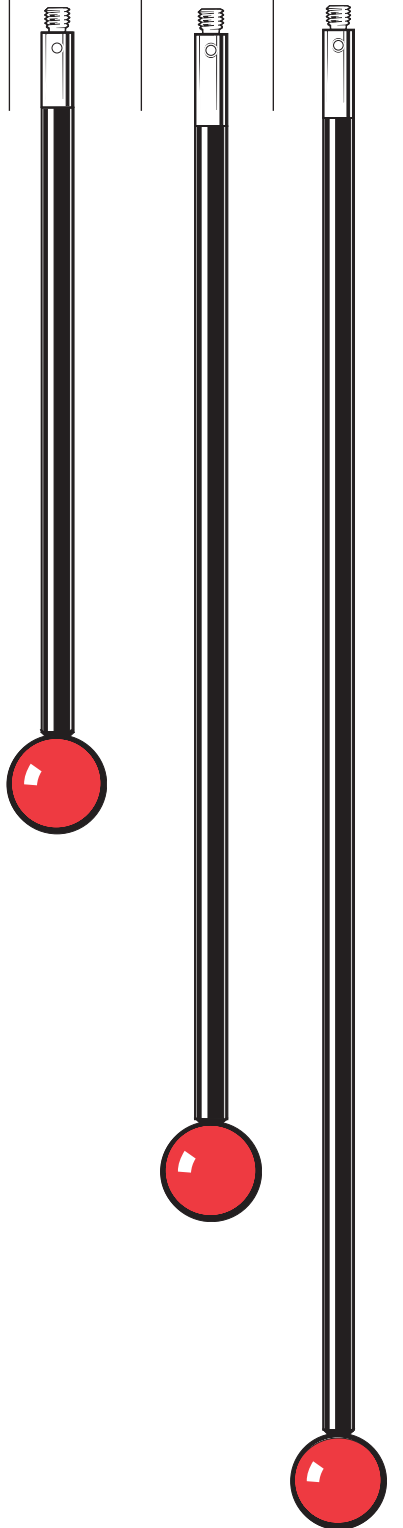
## Ruby ball styli (carbon fibre stems)

Part number	A-5003-7057	A-5003-7056	A-5003-7055	A-5003-7054
<b>A</b> Ball dia. mm (inch)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)	10.0 (0.40)
<b>B</b> Length mm (inch)	75.0 (2.96)	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)
<b>D</b> EWL* mm (inch)	75.0 (2.96)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)
Mass grammes	4.05	4.53	5.49	6.47



Ruby ball styli (carbon fibre stems)

Part number	A-5003-7445	A-5003-7446	A-5003-7447
<b>A</b> Ball dia. mm (inch)	12.0 (0.48)	12.0 (0.48)	12.0 (0.48)
<b>B</b> Length mm (inch)	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)
<b>D</b> EWL* mm (inch)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)
Mass grammes	5.9	6.9	7.9





### Stylus extensions (stainless steel)

Part number	M-5000-7633	M-5000-3592	M-5000-3593
Length mm (inch)	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 extension (ceramic)

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



### Stylus extensions (carbon fibre)

Part number	A-5003-4864	A-5003-4865
Length mm (inch)	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

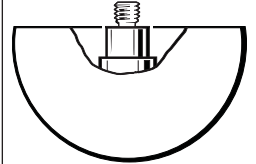
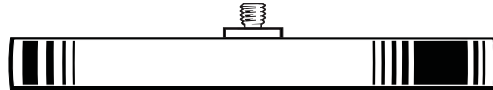
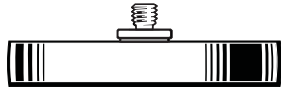
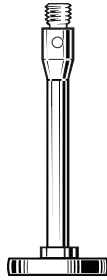


M3 threaded  
stylus range

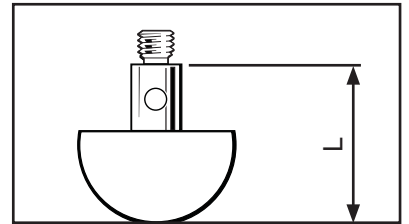
4.6

### Disc and hollow ball styli

Part number	A-5000-3615 Silver steel	A-5000-7612 Silver steel	A-5000-7669 Carbon steel	A-5000-7814 Ceramic
Disc dia mm (inch)	12.7 (0.50)	35.0 (1.38)	63.5 (2.51)	30.0 (1.19)
Disc depth mm (inch)	2.2 (0.09)	5.0 (0.20)	6.0 (0.24)	17.0 (0.67)
Stem dia. mm (in.)	3.5 (0.14)	NA	NA	NA
Mass grammes	4.0	10.0	45.0	13.0

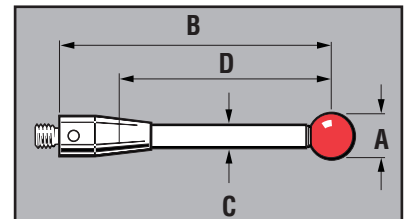
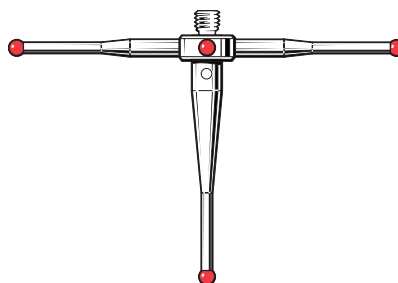
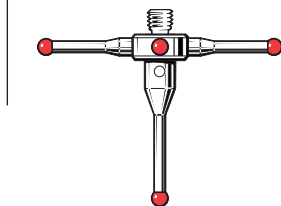


Part number	A-5003-7098 Ceramic
Disc dia mm (inch)	30.0 (1.19)
Disc depth mm (inch)	1.5 (0.06)
Stem dia. mm (in.)	4.0 (0.16)
Mass grammes	3.6



### Star styli (fixed)

Part number	A-5003-0076	A-5003-0077
Span mm (inch)	30.0 (1.19)	50.0 (1.97)
Ball mm (inch)	2.0 (0.08)	2.0 (0.08)
Stem dia. mm (in.)	1.4 (0.06)	1.4 (0.06)
EWL* mm (inch)	11.0 (0.44)	11.0 (0.44)
Mass grammes	2.38	5.25



\*Effective working length

# 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

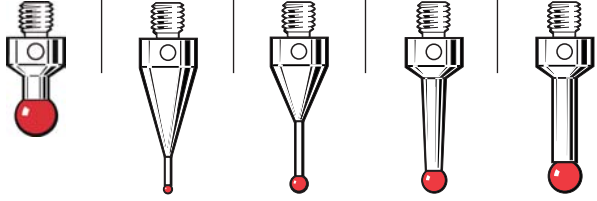
- TP7
- SP600
- TP800

#### Machine tool

- MP1
- MP3
- MP11
- MP700
- LP2
- TS27R
- OMP40-2
- OMP400
- RMP60
- RP3
- RMP40
- RLP40
- OLP40
- OMP60
- OTS
- RMP600
- MP250
- HPRA
- HPPA
- HPMA

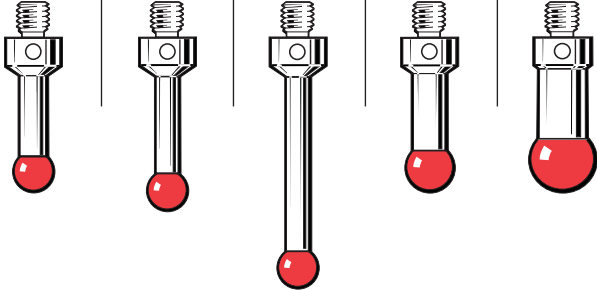
Ruby ball styli (stainless steel stems)

Ball material	Part number					
Ruby	A-5000-6350	A-5000-7545	A-5000-7547	A-5000-7549	A-5000-7551	
Silicon nitride			A-5003-5728		A-5003-5729	
Zirconia			A-5003-5742		A-5003-5743	
<b>A</b>	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>B</b>	Length mm (inch)	10.0 (0.39)	19.5 (0.77)	19.0 (0.75)	18.5 (0.73)	18.0 (0.71)
<b>C</b>	Stem dia. mm (in.)	3.0 (0.12)	0.7 (0.03)	1.4 (0.05)	2.0 (0.08)	3.0 (0.12)
<b>D</b>	EWL* mm (inch)	5.0 (0.20)	4.5 (0.18)	9.2 (0.36)	13.0 (0.52)	13.7 (0.54)
	Mass grammes	1.9	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	
<b>A</b>	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>B</b>	Length mm (inch)	17.5 (0.69)	20.0 (0.79)	30.0 (1.19)	17.0 (0.67)	16.0 (0.63)
<b>C</b>	Stem dia. mm (in.)	3.5 (0.14)	3.0 (0.12)	3.0 (0.12)	4.5 (0.18)	6.0 (0.24)
<b>D</b>	EWL* mm (inch)	13.6 (0.55)	15.89 (0.63)	26.0 (1.03)	13.3 (0.53)	16.0 (0.63)
	Mass grammes	2.3	2.4	3.0	3.0	3.9

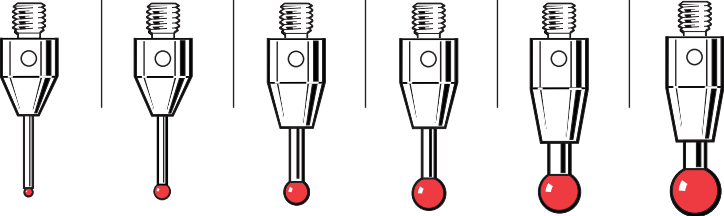
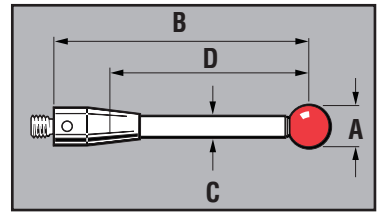
**10 mm – 30 mm range**



(Tungsten carbide stems)

Part number	A-5003-4792	A-5003-2932	A-5003-4793	A-5003-4794	A-5003-4795	A-5003-4796	
<b>A</b>	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>B</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)
<b>C</b>	Stem dia. mm (in.)	0.7 (0.03)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)
<b>D</b>	EWL* mm (inch)	10.0 (0.40)	10.0 (0.40)	8.5 (0.33)	8.5 (0.33)	7.9 (0.31)	10.7 (0.42)
	Mass grammes	2.39	3.01	3.53	3.53	4.52	4.66

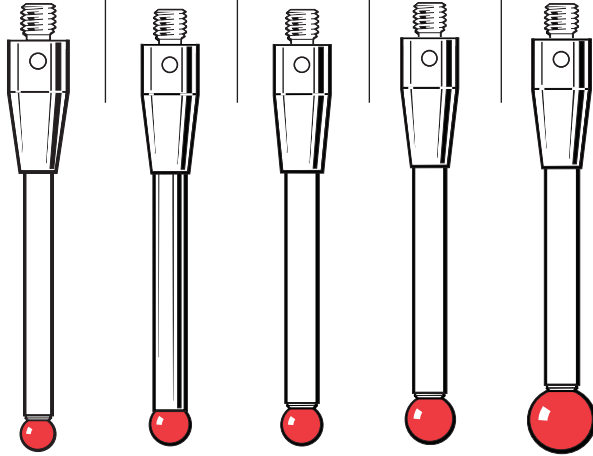
**20 mm range**

## Ruby ball styli

Part number	A-5003-0233	A-5000-7521	A-5003-0235	A-5000-3709	A-5000-7795
	Ceramic	Stainless steel	Ceramic	Ceramic	Ceramic
<b>A</b> Ball dia. mm (inch)	4.0 (0.16)	5.0 (0.20)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)
<b>B</b> Length mm (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
<b>C</b> Stem dia. mm (inch)	3.0 (0.12)	4.5 (0.18)	3.8 (0.15)	4.5 (0.18)	4.5 (0.18)
<b>D</b> EWL* mm (inch)	33.5 (1.32)	33.5 (1.32)	33.5 (1.32)	38.5 (1.50)	50.0 (1.97)
Mass grammes	3.9	5.8	5.0	4.8	5.4

50 mm range



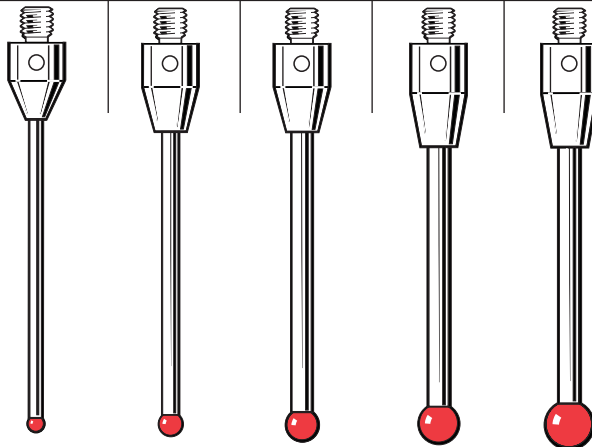
M4 threaded  
stylus range

5.2

### (Tungsten carbide stems)

Part number	A-5003-4797	A-5003-3680	A-5003-4799	A-5003-4800	A-5003-4801
<b>A</b> 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>B</b> Length mm (inch)	50.0 (1.97)	50.0 (1.97)	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 (0.08)	2.5 (0.10)	2.5 (0.10)
<b>D</b> EWL* mm (inch)	40.0 (1.58)	38.5 (1.51)	38.5 (1.51)	37.9 (1.49)	40.7 (1.60)
Mass grammes	3.80	4.94	4.99	6.72	6.86

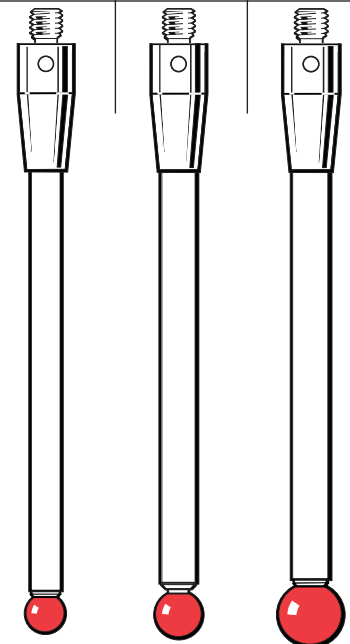
50 mm range



### (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 (inch)	3.8 (0.15)	4.5 (0.18)	4.5 (0.18)
EWL* mm (inch)	58.5 (2.30)	63.5 (2.51)	75.0 (2.96)
Mass grammes	5.63	5.64	6.20

75 mm range



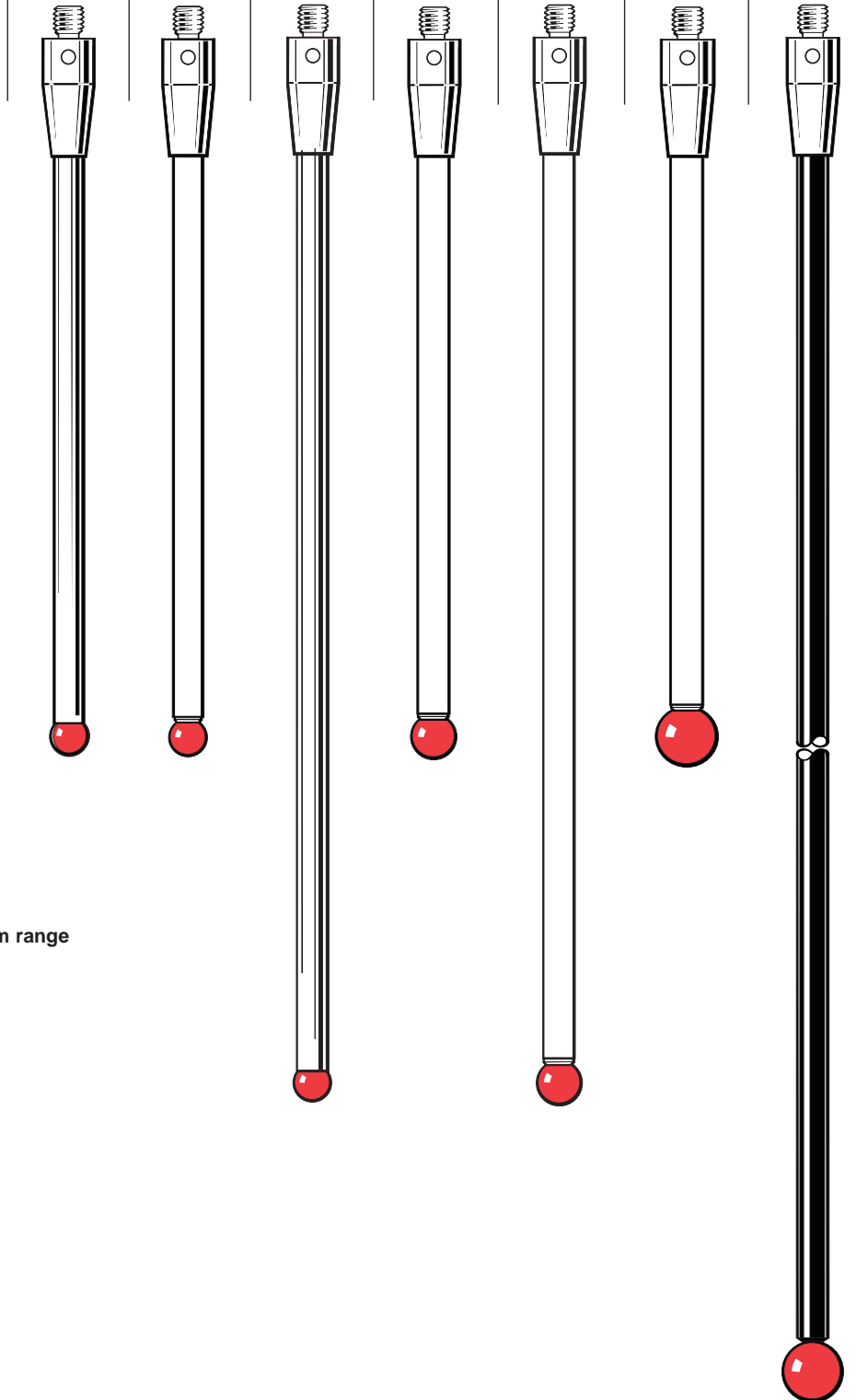
\*Effective working length

Ruby ball styli

M4 threaded  
stylus range

5.3

Part number	A-5000-7522	A-5000-9761	A-5000-7523	A-5000-3712	A-5000-8156	A-5000-7796	A-5003-3461
	Stainless steel	Ceramic	Stainless steel	Ceramic	Ceramic	Ceramic	Carbon fibre
<b>A</b> Ball dia. mm (inch)	5.0 (0.20)	5.0 (0.20)	5.0 (0.20)	6.0 (0.24)	6.0 (0.24)	8.0 (0.32)	8.0 (0.32)
<b>B</b> Length mm (inch)	100.0 (3.94)	100.0 (3.94)	150.0 (5.91)	100.0 (3.94)	150.0 (6.00)	100.0 (3.94)	300.0 (11.82)
<b>C</b> Stem dia. mm (inch)	4.5 (0.18)	3.8 (0.15)	4.4 (0.17)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
<b>D</b> EWL* mm (inch)	83.2 (3.28)	83.5 (3.29)	133.0 (5.24)	88.5 (3.48)	135.0 (5.31)	100.0 (3.94)	300.0 (11.82)
Mass grammes	11.3	6.3	17.4	6.3	7.9	7.5	10.4

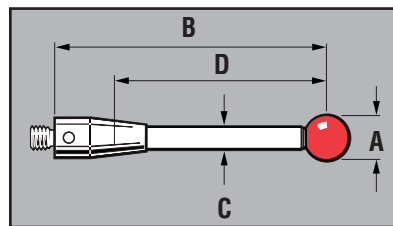
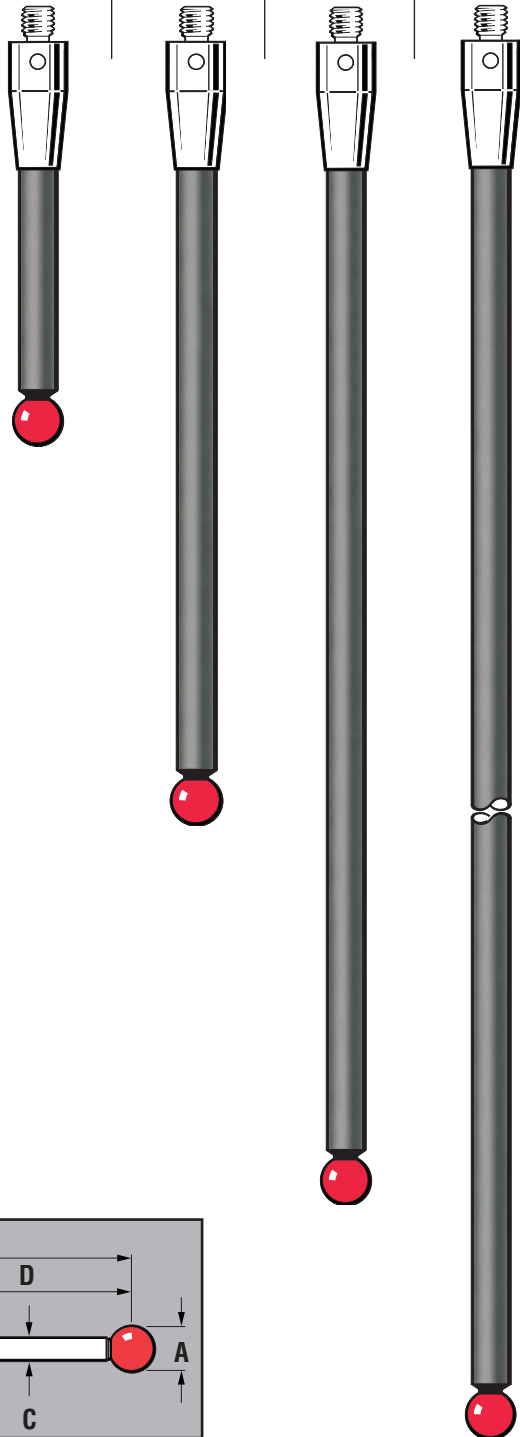


100 mm – 200 mm – 300 mm range

**Ruby ball styli  
(recommended for use with OMP400 and RMP600)**

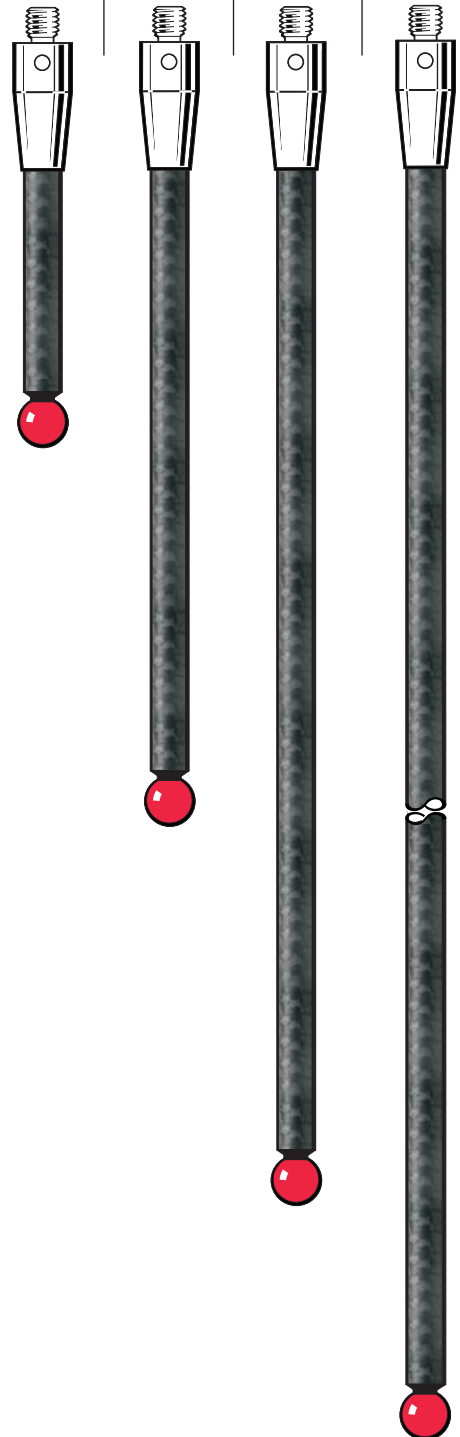
**Ball material Part number**

	<b>Ruby</b> A-5003-7306	<b>Silicon nitride</b> A-5003-6510	<b>Zirconia</b> A-5003-5730 A-5003-5745	A-5003-6511	A-5003-6512
	Carbon fibre	Carbon fibre	Carbon fibre	Carbon fibre	Carbon fibre
<b>A</b> Ball dia. mm (inch)	6.0 (0.24)	6.0 (0.24)	6.0 (0.24)	6.0 (0.24)	6.0 (0.24)
<b>B</b> Length mm (inch)	50.0 (1.97)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)	200.0 (7.88)
<b>C</b> Stem dia. mm (in.)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
<b>D</b> EWL* mm (inch)	38.5 (1.52)	88.5 (3.48)	138.5 (5.45)	188.5 (7.42)	188.5 (7.42)
Mass grammes	4.1	6.2	7.5	8.7	8.7



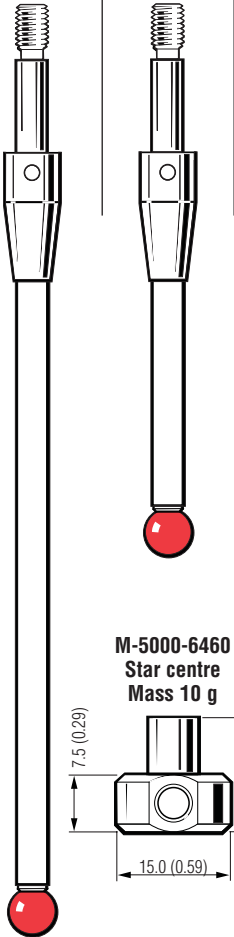
**Ruby ball styli  
(recommended for use with MP700)**

A-5003-1436	A-5003-1358	A-5003-1255	A-5003-1075
Carbon fibre	Carbon fibre	Carbon fibre	Carbon fibre
6.0 (0.24)	6.0 (0.24)	6.0 (0.24)	6.0 (0.24)
50.0 (1.97)	100.0 (3.94)	150.0 (5.91)	200.0 (7.88)
4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)
38.5 (1.52)	88.5 (3.48)	138.5 (5.46)	188.5 (7.42)
4.1	6.2	7.5	8.7



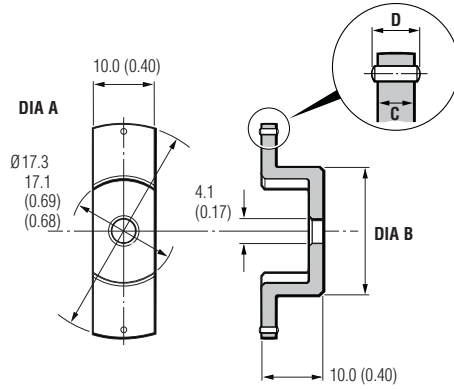
M4 star styli

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)	88.5 (3.48)	38.5 (1.52)
Mass grammes	7.5	6.0



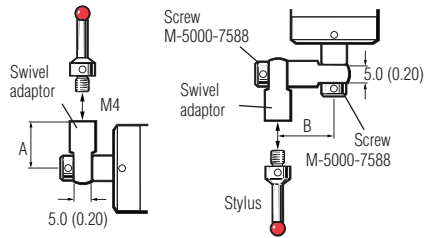
Disc styli

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



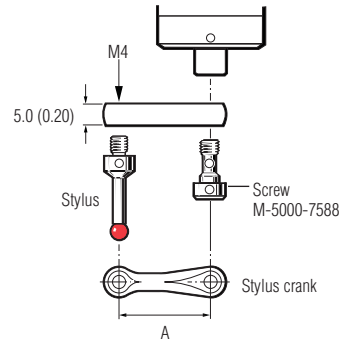
Swivel adaptor

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



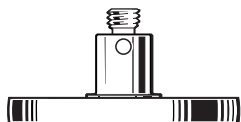
Styli crank

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



Disc styli








Part number	A-5000-6351 Silver steel
Disc dia. mm (inch)	Ø30.0 (1.19)
Disc depth mm (inch)	3.0 (0.12)
Length mm (inch)	10.0 (0.40)
Rollers	NO
Mass grammes	7.9




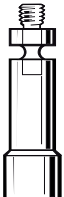

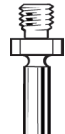
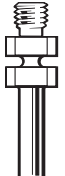
\*Effective working length



## Crash protection devices

Part number For pack of ten	M-5000-7582	M-5000-7587	M-5000-7588	M-2085-0069	*A-5003-0661 A-5004-1865	M-2197-0156 A-5004-1867	M-2197-0150 A-5004-1869
	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
				RMP60		HPPA	HPPA
				OMP60			
				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
	M3 Silver steel	M3 Silver steel	M3 Silver steel	M4 Silver steel	M4 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
					

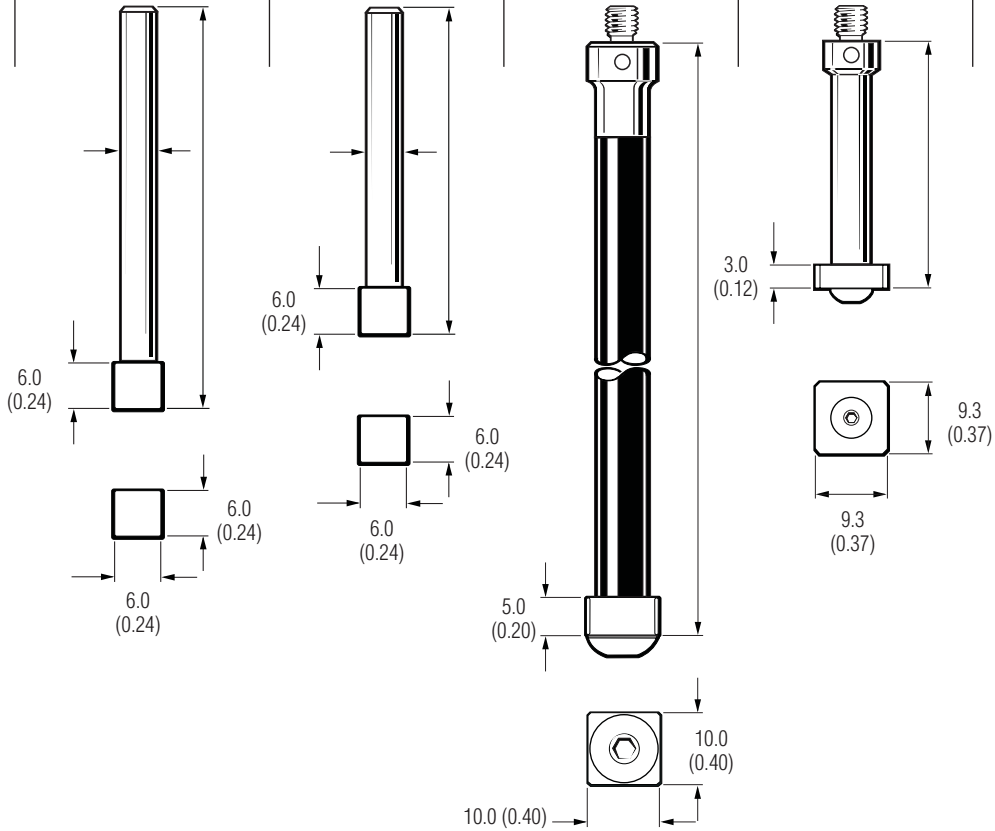
\* Please note: If you require the full TS27R break stem kit, please order A-5003-5171.

Tool datuming styli

M4 threaded  
stylus range

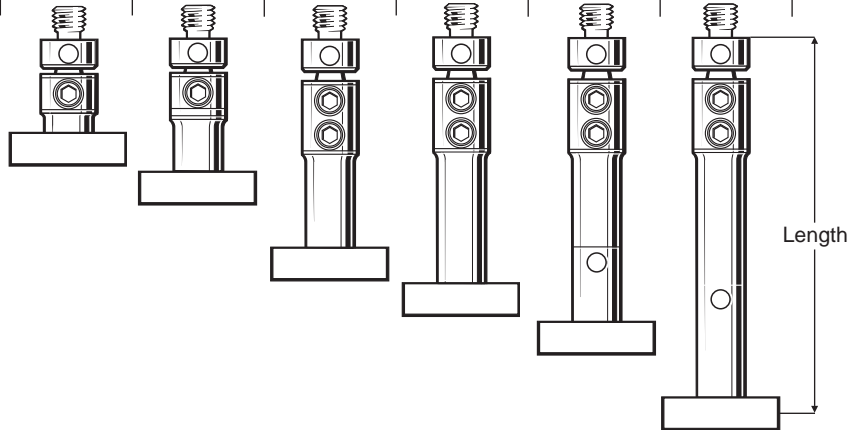
5.7

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

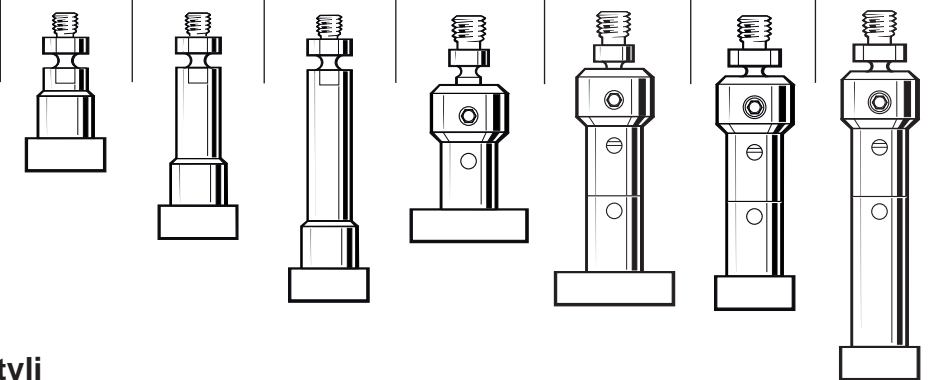


## Tool datuming styli

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	20.0	20.7	21.8	23.5
For use on	HPPA	HPPA	HPPA	HPPA	HPPA	HPPA
	HPMA	HPMA	HPMA	HPMA	HPMA	HPMA
	HPRA	HPRA	HPRA	HPRA	HPRA	HPRA
	RP3	RP3	RP3	RP3	RP3	RP3

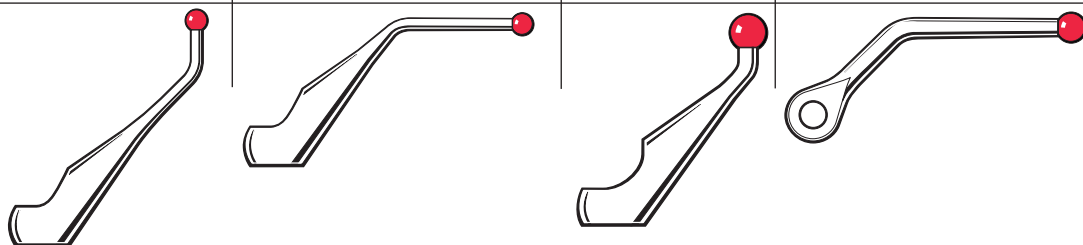


Part number	A-2008-0601	A-2008-0602	A-2008-0603	A-2048-2050	A-2048-2051	A-2116-0140	A-2116-0141
	M3	M3	M3	M4	M4	M4	M4
	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel
Length mm (inch)	15.4 (0.61)	24 (0.96)	32.4 (1.27)	23.2 (0.91)	32.0 (1.26)	32.0 (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



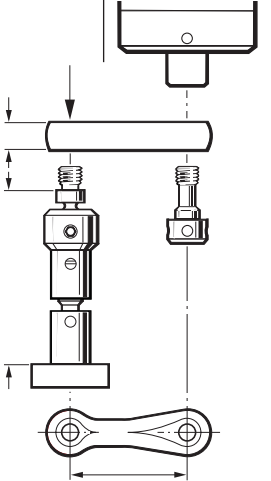
## Cranked styli

Part number	A-5000-5302	A-5000-5307	A-5000-6620	A-5000-7580
	M4	M4	M4	M4
	Tungsten steel	Tungsten steel	Tungsten steel	Tungsten steel
Length mm (inch)	32.0 (1.26)	21.6 (0.85)	27.4 (1.08)	38.8 (1.53)
Mass grammes	3.8	3.85	4.7	2.5
For use on	LP2	LP2	LP2	LP2



Tool datuming styli

Part number	A-2116-0142
Length mm (inch)	30.3 (0.40)
Mass grammes	22.6
For use on	TSA



M4 threaded  
stylus range

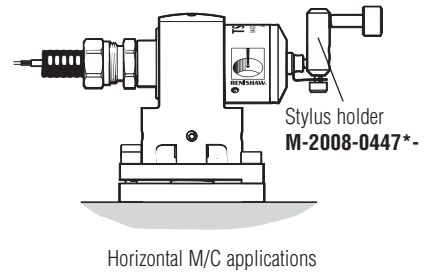
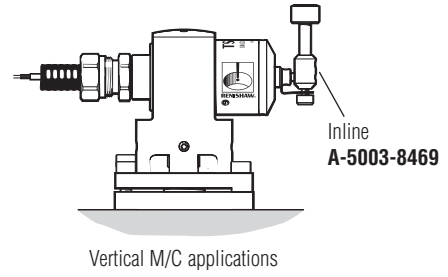
5.9

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

Part number	A-2008-0382 Tungsten carbide	A-2008-0384 Ceramic
Overall length mm (inch)	23.0 (0.91)	22.0 (0.87)
Mass grammes	12.1	7.1

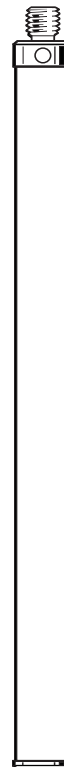
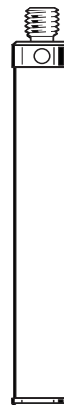
Stylus conversion kit for TS27R to allow Horizontal M/C applications  
(A-2008-0448)



\*Order also requires 2 x P-SC11-0404

### 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	A-5003-0587 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)	200.0 (7.87)
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)	7.4 (0.30)
Mass grammes	2.4	3.7	4.8	7.4	5.1	6.7	10.6	18.4



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

## M4 digitising styli

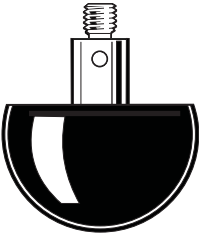
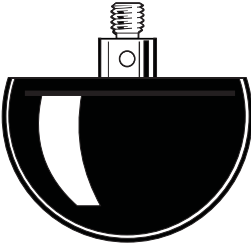
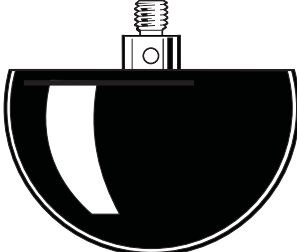
### Hemispherical anodised aluminium ball styli (metric)

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
					






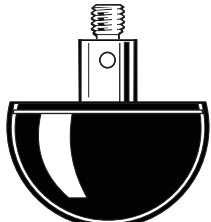
M4 threaded  
stylus range

5.12

### Hemispherical anodised aluminium ball styli (metric)

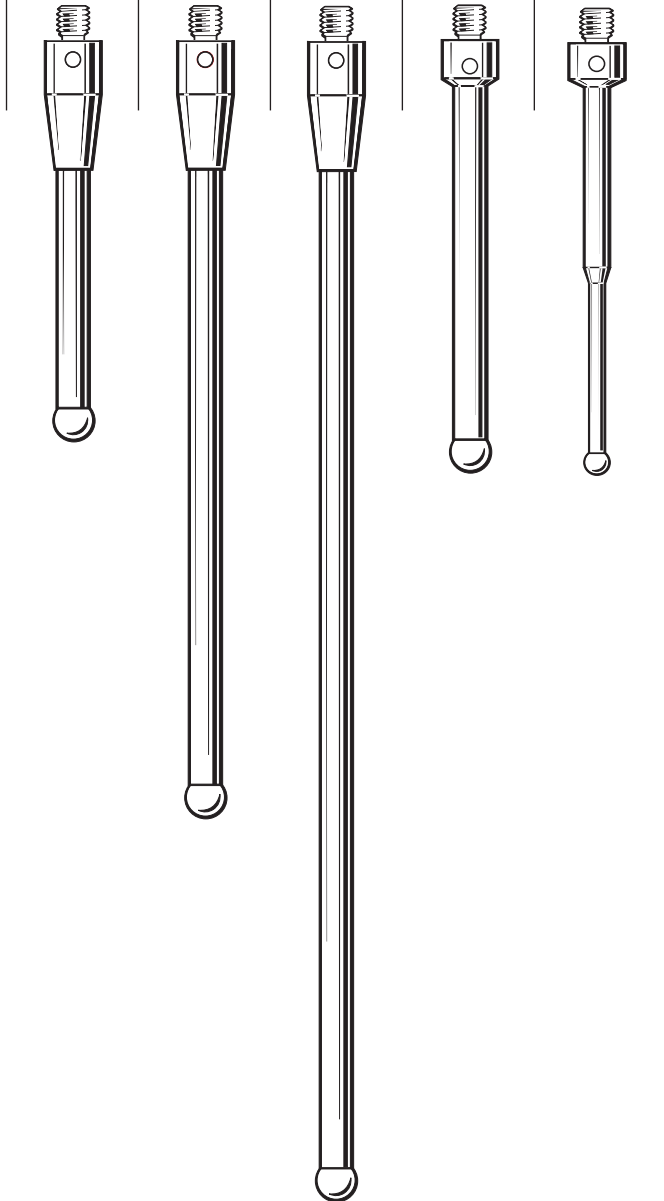
Part number	A-5000-7723	A-5000-7724	A-5000-7725
Ball dia mm (inch)	25.0 (0.99)	32.0 (1.26)	38.0 (1.50)
Length mm (inch)	12.5 (0.50)	9.5 (0.38)	9.5 (0.38)
Mass grammes	18.7	19.6	28.5
			

### 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
						

**Tungsten carbide styli (stainless steel stems)**






Part number	A-5000-7670	A-5000-7671	A-5000-7672	A-5000-9685	A-5000-9697
<b>A</b> Ball dia. mm (inch)	5.0 (0.20)	5.0 (0.20)	5.0 (0.20)	5.0 (0.20)	3.0 (0.12)
<b>B</b> Length mm (inch)	50.0 (1.97)	100.0 (3.94)	150.0 (5.91)	54.0 (2.12)	55.0 (2.17)
<b>C</b> Stem dia. mm (inch)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	3.9 (0.15)	1.9 (0.07)
<b>D</b> EWL* mm (inch)	35.0 (1.38)	85.0 (3.35)	135.0 (5.31)	50.0 (1.97)	25.0 (0.99)
Mass grammes	6.2	11.9	18.2	6.9	3.8



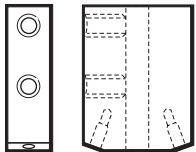
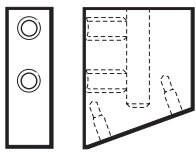


## Walter styli


### M1.4 Thread styli

Part number	A-5003-3814 M1.4	A-5003-3045 M1.4	A-5003-3042 M1.4	A-5000-9860 M1.4	A-5003-1699 M1.4
Stem material	Tungsten carbide	Stainless steel	Tungsten carbide	Tungsten carbide	Stainless steel
Ball material	Tungsten carbide	Tungsten carbide	Ruby	Tungsten carbide	Tungsten carbide
<b>A</b> Ball dia. mm (inch)	0.5 (0.019)	1.0 (0.04)	0.5 (0.019)	1.0 (0.04)	0.6 (0.02)
<b>B</b> Length mm (inch)	12.5 (0.49)	25.0 (0.98)	12.5 (0.49)	13.0 (0.51)	12.75 (0.5)
<b>D</b> EWL* mm (inch)	1.5 (0.059)	1.5 (0.059)	3.0 (0.12)	1.0 (0.04)	1.0 (0.04)
Mass grammes	0.2	1.1	0.19	0.22	0.41
					

### Adaptors

Part number	A-5003-1448	A-5000-9724
D3 MTG	2 x M1.4 adaptor 20°	M1.4 adaptor 20°
Mass grammes	9.73	8.31
		

### Break stem

Part number	M-5000-9712 M4 stylus break stem
Mass grammes	2
	



# M5 threaded stylus range



**SP80 is an ultra-accurate quill-mounted scanning probe**

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

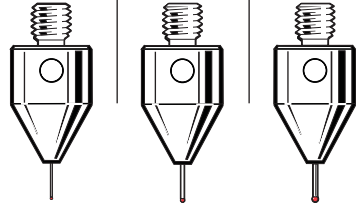
The following probes all use M5 threaded styli, however with suitable adaptors, other thread sizes may be used.

- SP80
- SP2
- SP2-1

Ruby micro ball styli (Tungsten carbide stems)

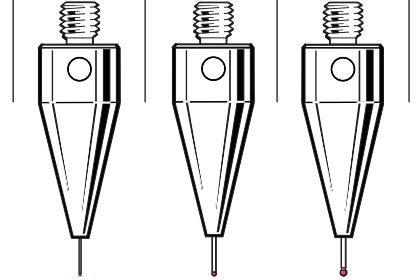
Part number	A-5003-5201	A-5003-5202	A-5003-5203
<b>A</b> Ball dia. mm (inch)	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)
<b>B</b> Length mm (inch)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
<b>C</b> Stem dia. mm (inch)	0.2 (0.01)	0.4 (0.02)	0.5 (0.02)
<b>D</b> EWL* mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Mass grammes	6.5	6.5	6.5

20 mm range



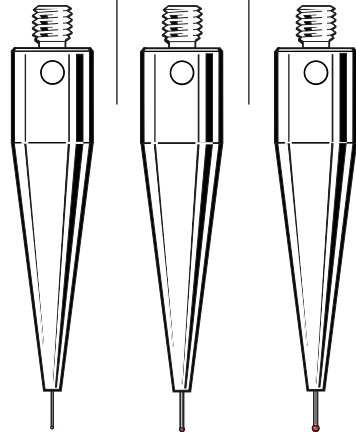
A-5003-5211	A-5003-5212	A-5003-5213
0.3 (0.012)	0.5 (0.02)	0.7 (0.03)
30.0 (1.19)	30.0 (1.19)	30.0 (1.19)
0.2 (0.01)	0.4 (0.02)	0.5 (0.02)
3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
8.95	8.95	8.98

30 mm range



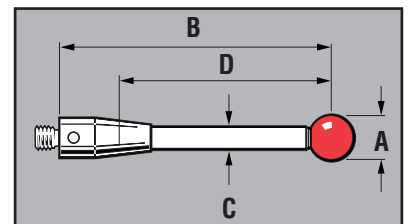
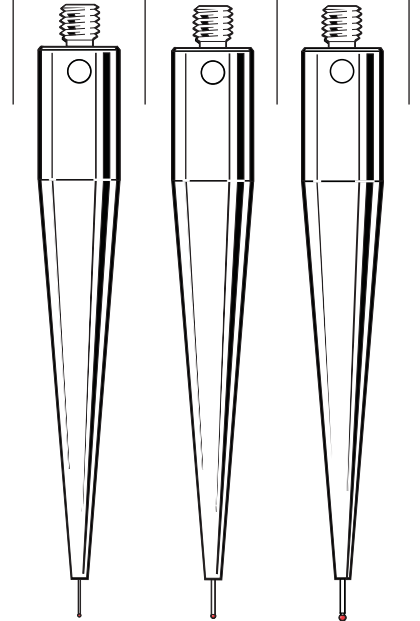
Part number	A-5003-5225	A-5003-5226	A-5003-5227
<b>A</b> Ball dia. mm (inch)	0.3 (0.012)	0.5 (0.02)	0.7 (0.03)
<b>B</b> Length mm (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
<b>C</b> Stem dia. mm (inch)	0.2 (0.01)	0.4 (0.02)	0.5 (0.02)
<b>D</b> EWL* mm (inch)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
Mass grammes	15.79	15.79	15.79

50 mm range



A-5003-5240	A-5003-5241	A-5003-5242
0.3 (0.012)	0.5 (0.02)	0.7 (0.03)
75.0 (2.96)	75.0 (2.96)	75.0 (2.96)
0.2 (0.01)	0.4 (0.02)	0.5 (0.02)
3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
23.84	23.84	23.84

75 mm range

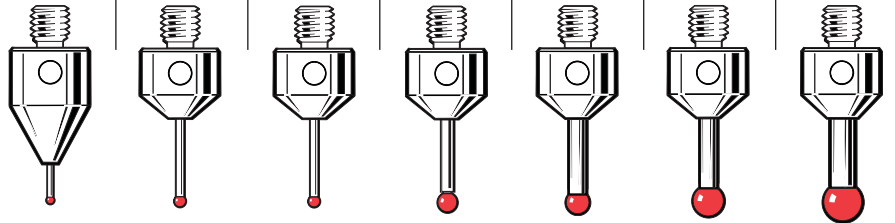


## Ruby ball styli

### Ball material Part number

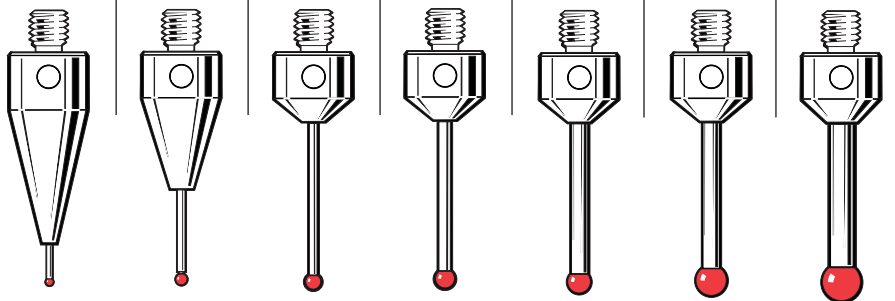
Ruby		A-5003-5204	A-5003-5205	A-5003-5206	A-5003-5207	A-5003-5208	A-5003-5209	A-5003-5210
Silicon nitride				A-5003-5732			A-5003-5733	
Zirconia				A-5003-5746			A-5003-5747	
		Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide
<b>A</b>	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>B</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)	20.0 (0.79)
<b>C</b>	Stem dia. mm (inch)	0.7 (0.03)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	3.0 (0.12)
<b>D</b>	EWL* mm (inch)	5.0 (0.20)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.9 (0.47)	11.5 (0.45)
	Mass grammes	6.52	4.68	4.70	4.84	5.12	5.19	6.06

### 20 mm range



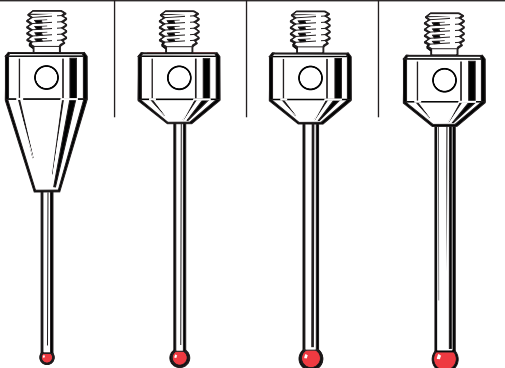
Part number		A-5003-5214	A-5003-5215	A-5003-5216	A-5003-5217	A-5003-5218	A-5003-5219	A-5003-5220
		Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide
<b>A</b>	Ball dia. mm (inch)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)	5.0 (0.20)
<b>B</b>	Length mm (inch)	30.0 (1.19)	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 (0.03)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	3.0 (0.12)
<b>D</b>	EWL* mm (inch)	5.0 (0.20)	12.0 (0.48)	21.0 (0.83)	21.0 (0.83)	21.0 (0.83)	21.9 (0.86)	21.5 (0.85)
	Mass grammes	9.01	7.28	4.81	5.14	5.58	5.64	7.10

### 30 mm range



Part number		A-5003-5221	A-5003-5222	A-5003-5223	A-5003-5224
		Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide
<b>A</b>	Ball dia. mm (inch)	1.5 (0.06)	2.0 (0.08)	2.5 (0.10)	3.0 (0.12)
<b>B</b>	Length mm (inch)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)	40.0 (1.58)
<b>C</b>	Stem dia. mm (inch)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)
<b>D</b>	EWL* mm (inch)	22.0 (0.87)	31.0 (1.23)	31.0 (1.23)	31.0 (1.23)
	Mass grammes	7.39	4.93	5.40	6.04

### 40 mm range

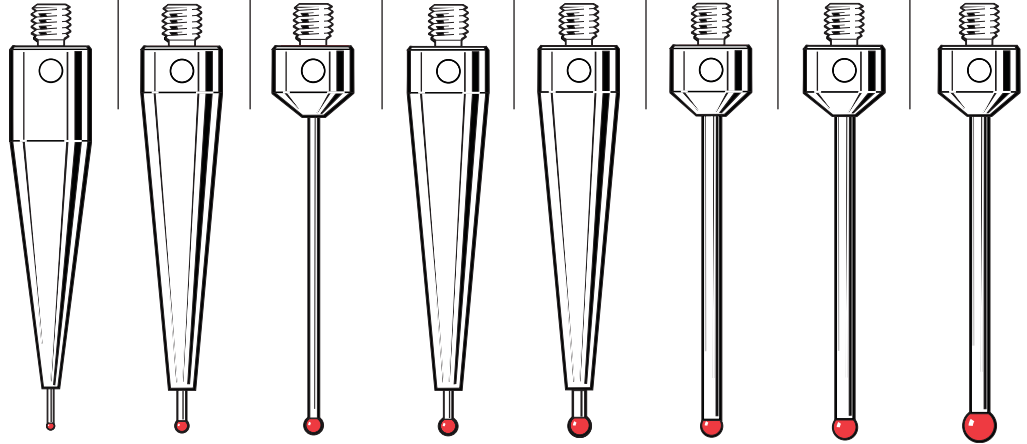


\*Effective working length

Ruby ball styli (<5 mm ball dia.)

	Part number	A-5003-5228	A-5003-5229	A-5003-5230	A-5003-5231	A-5003-5233	A-5003-5232	A-5003-5234	A-5003-5235
		Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide
<b>A</b>	Ball dia. mm (inch)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.5 (0.10)	2.5 (0.10)	3.0 (0.12)	4.0 (0.16)
<b>B</b>	Length mm (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
<b>C</b>	Stem dia. mm (in.)	0.7 (0.03)	1.0 (0.04)	1.0 (0.04)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	2.0 (0.08)	2.0 (0.08)
<b>D</b>	EWL* mm (inch)	5.0 (0.20)	5.0 (0.20)	41.0 (1.62)	5.0 (0.20)	5.0 (0.20)	41.0 (1.62)	41.0 (1.62)	41.9 (1.65)
	Mass grammes	15.81	14.82	5.05	14.85	14.94	6.48	6.50	6.55

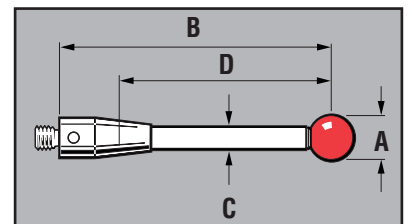
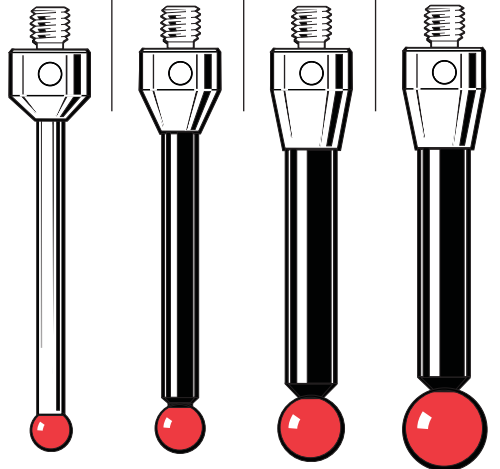
50 mm range



Ruby ball styli (>5 mm ball dia.)

Ball material	Part number				
Ruby	A-5003-5236	A-5003-5237	A-5003-5238	A-5003-5239	
Silicon nitride		A-5003-5734			
Zirconia		A-5003-5748			
	Tungsten carbide	Carbon fibre	Carbon fibre	Carbon fibre	
<b>A</b>	Ball dia. mm (inch)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
<b>B</b>	Length mm (inch)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)	50.0 (1.97)
<b>C</b>	Stem dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
<b>D</b>	EWL* mm (inch)	41.5 (1.63)	39.5 (1.55)	39.5 (1.55)	44.5 (1.75)
	Mass grammes	9.19	6.10	7.96	8.91

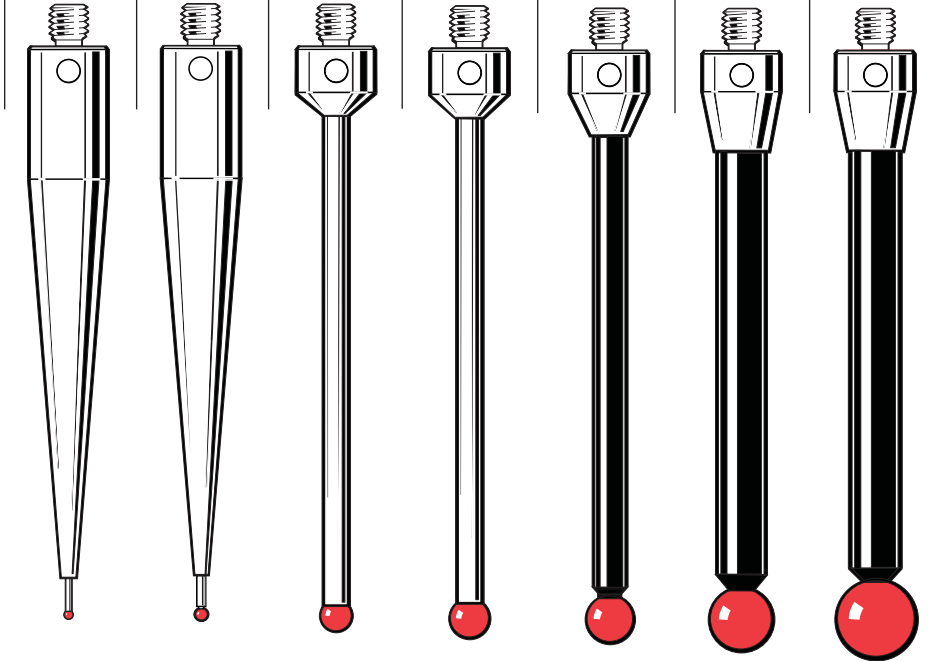
50 mm range



**Ruby ball styli (1 mm – 10 mm ball dia.)**

Part number		A-5003-5243	A-5003-5244	A-5003-5248	A-5003-5249	A-5003-5250	A-5003-5251	A-5003-5252
		Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Carbon fibre	Carbon fibre	Carbon fibre
<b>A</b>	Ball dia. mm (inch)	1.0 (0.04)	1.5 (0.06)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
<b>B</b>	Length mm (inch)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)	75.0 (2.96)
<b>C</b>	Stem dia. mm (inch)	0.7 (0.03)	1.0 (0.04)	3.0 (0.12)	3.0 (0.12)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
<b>D</b>	EWL* mm (inch)	5.0 (0.20)	5.0 (0.20)	66.0 (2.60)	66.0 (2.60)	65.1 (2.56)	64.5 (2.54)	69.5 (2.74)
	Mass grammes	23.86	23.90	11.61	11.80	6.59	9.06	10.01

75 mm range

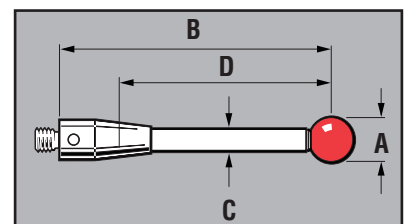
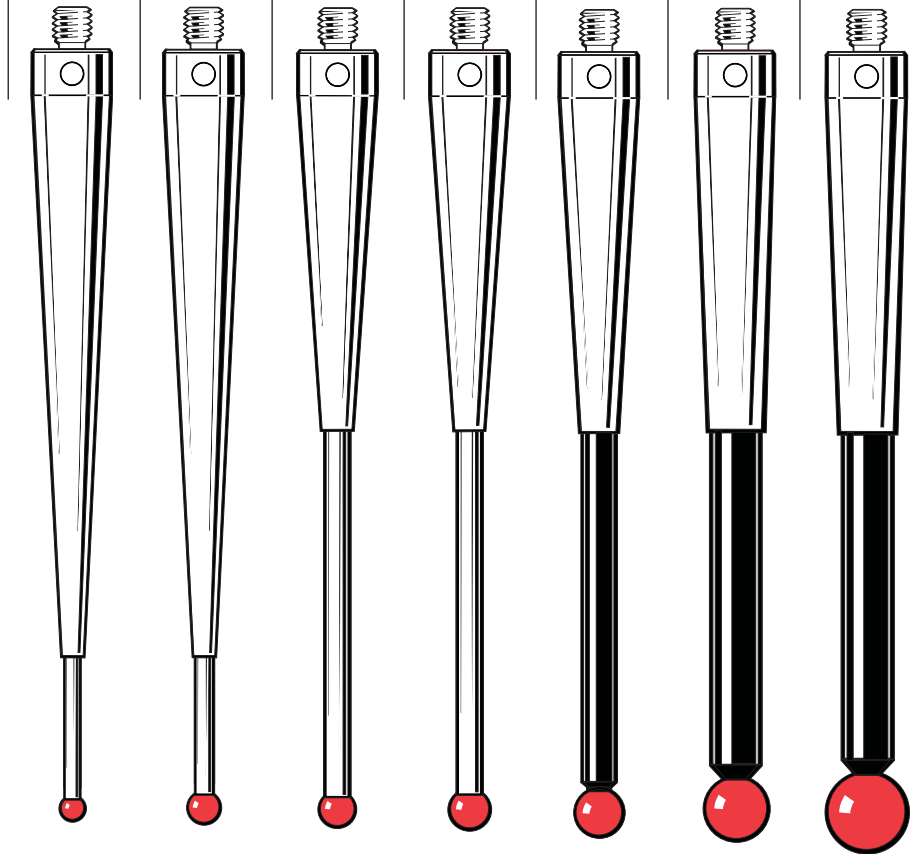


\*Effective working length

Ruby ball styli ( $\leq 50$  mm EWL)

	Ball material	Part number						
		A-5003-5253	A-5003-5255	A-5003-5256	A-5003-5257	A-5003-5259 A-5003-5735 A-5003-5749	A-5003-5261	A-5003-5263
		Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Carbon fibre	Carbon fibre	Carbon fibre
<b>A</b>	Ball dia. mm (inch)	3.0 (0.12)	4.0 (0.16)	4.0 (0.16)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
<b>B</b>	Length mm (inch)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
<b>C</b>	Stem dia. mm (inch)	2.0 (0.08)	2.0 (0.08)	3.0 (0.12)	3.0 (0.12)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
<b>D</b>	EWL* mm (inch)	20.0 (0.79)	30.5 (1.20)	50.0 (1.97)	50.0 (1.97)	58.9 (2.32)	50.0 (1.97)	95.5 (3.76)
	Mass grammes	25.71	25.75	23.07	23.31	19.66	22.97	23.91

100 mm range

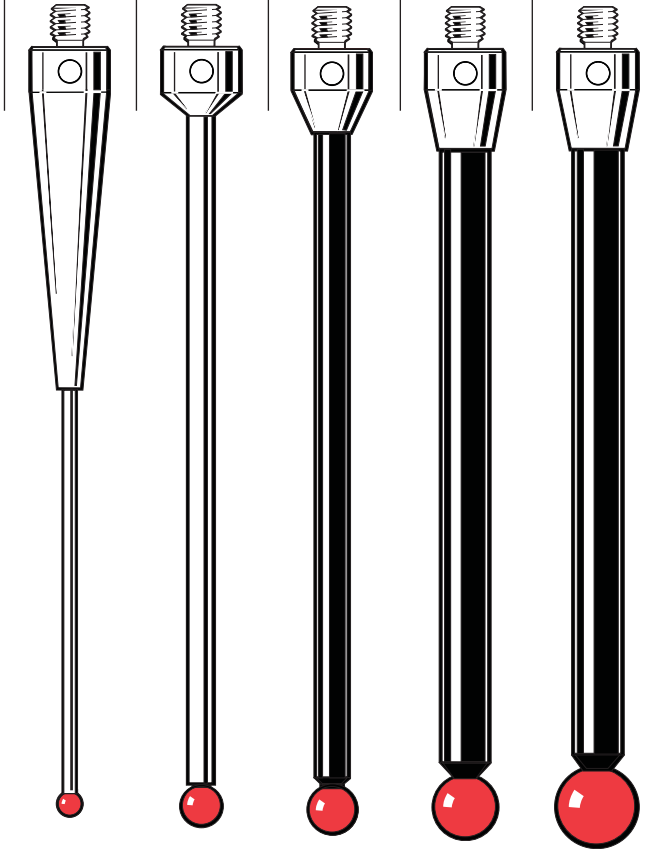




## Ruby ball styli (>50 mm EWL)

Part number	A-5003-5254	A-5003-5258	A-5003-5260	A-5003-5262	A-5003-5264
	Tungsten carbide	Tungsten carbide	Carbon fibre	Carbon fibre	Carbon fibre
<b>A</b> Ball dia. mm (inch)	3.0 (0.12)	5.0 (0.20)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
<b>B</b> Length mm (inch)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)	100.0 (3.94)
<b>C</b> Stem dia. mm (inch)	1.5 (0.06)	3.0 (0.12)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
<b>D</b> EWL* mm (inch)	55.0 (2.17)	91.0 (3.59)	90.1 (3.55)	89.5 (3.52)	94.5 (3.72)
Mass grammes	16.30	14.40	7.08	10.17	11.11

100 mm range

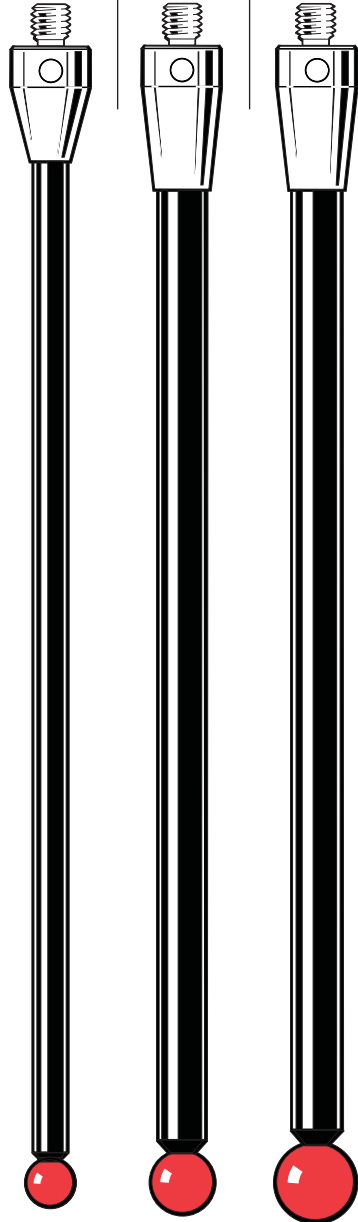


\*Effective working length

Ruby ball styli (carbon fibre stems)

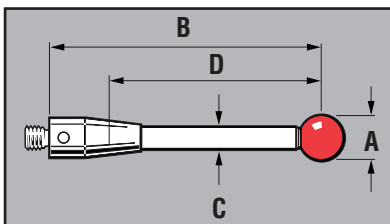
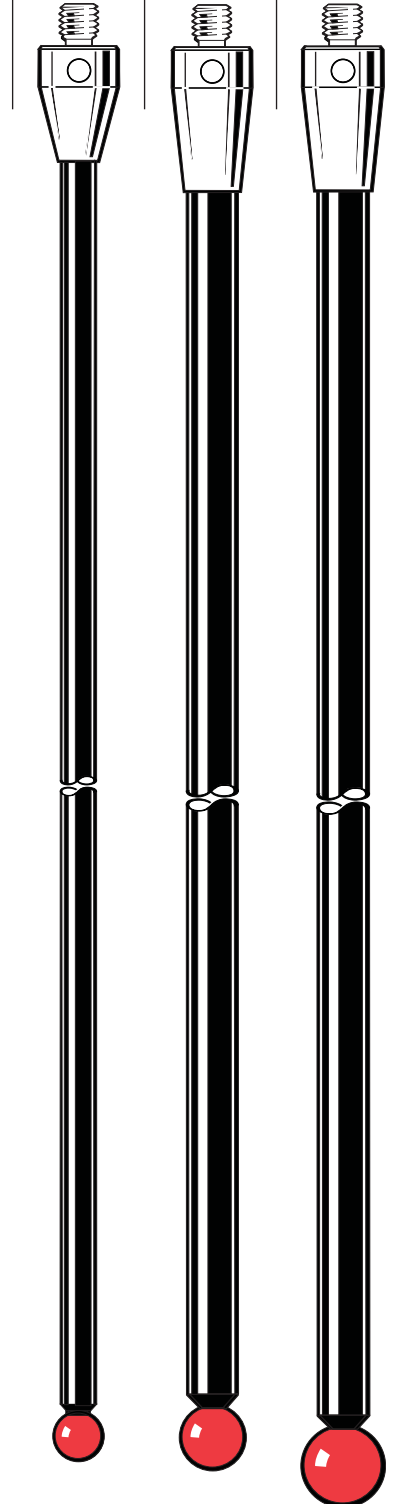
Part number	A-5003-5265	A-5003-5266	A-5003-5267
<b>A</b> Ball dia. mm (inch)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
<b>B</b> Length mm (inch)	150.0 (5.91)	150.0 (5.91)	150.0 (5.91)
<b>C</b> Stem dia. mm (inch)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
<b>D</b> EWL* mm (inch)	137.0 (5.39)	135.0 (5.31)	144.5 (5.69)
Mass grammes	9.09	13.71	14.66

150 mm range



200 mm range

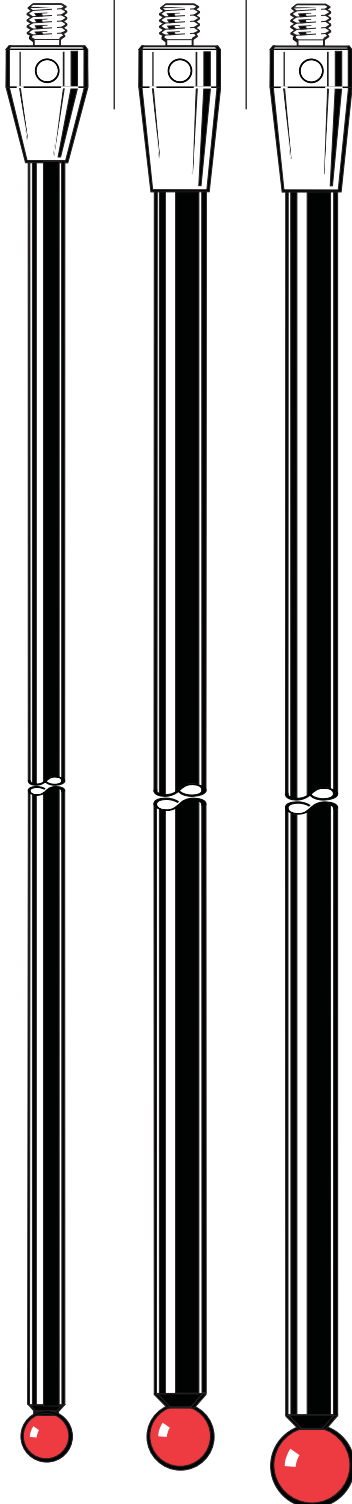
Part number	A-5003-5268	A-5003-5269	A-5003-5270
Ball dia. mm (inch)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
Length mm (inch)	200.0 (7.88)	200.0 (7.88)	200.0 (7.88)
Stem dia. mm (inch)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
EWL* mm (inch)	187.0 (7.36)	180.0 (7.09)	194.5 (7.66)
Mass grammes	10.07	15.92	6.87



## Ruby ball styli (carbon fibre stems)

Part number	A-5003-5271	A-5003-5272	A-5003-5273
<b>A</b> Ball dia. mm (inch)	6.0 (0.24)	8.0 (0.32)	10.0 (0.40)
<b>B</b> Length mm (inch)	300.0 (11.82)	300.0 (11.82)	300.0 (11.82)
<b>C</b> Stem dia. mm (inch)	4.0 (0.16)	6.0 (0.24)	6.0 (0.24)
<b>D</b> EWL* mm (inch)	287.0 (11.30)	280.0 (11.03)	294.5 (11.59)
Mass grammes	12.02	20.33	21.28

300 mm range



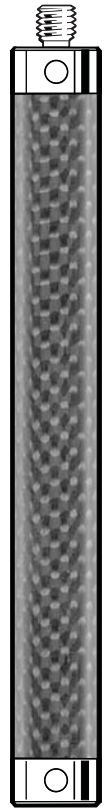
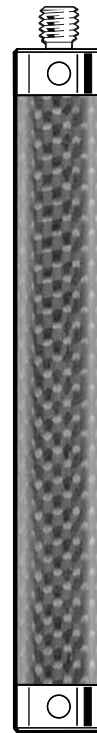
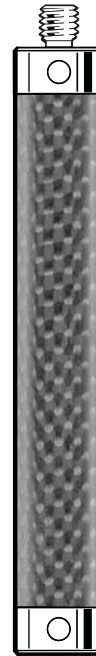
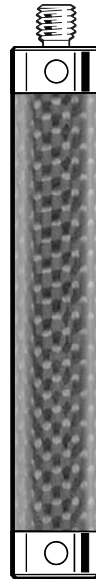
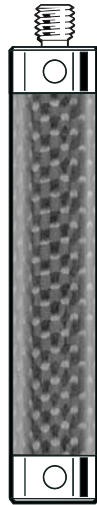
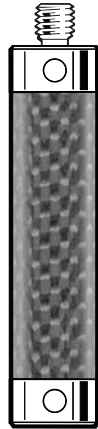
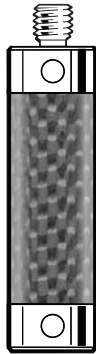
M5 threaded  
styli range

6.8

\*Effective working length

**Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 11 mm)**

Part number	*A-5555-0647	*A-5555-0648	*A-5555-0649	*A-5555-0623	*A-5555-0650	*A-5555-0651	*A-5555-0652
Length mm (inch)	40.0 (1.58)	50.0 (1.97)	60.0 (2.37)	70.0 (2.76)	80.0 (3.15)	90.0 (3.55)	100.0 (3.94)
Stem dia. mm (inch)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)
Mass grammes	7.6	8.3	9.0	9.7	10.4	11.1	11.8

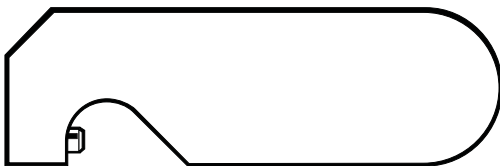


\* Special

**M5 extension tools**

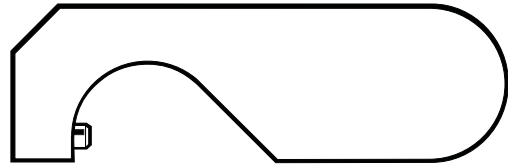
**A-5003-6134**

For M5 threaded extensions with  
11 mm (0.44 in) stem diameter



**A-5003-6135**

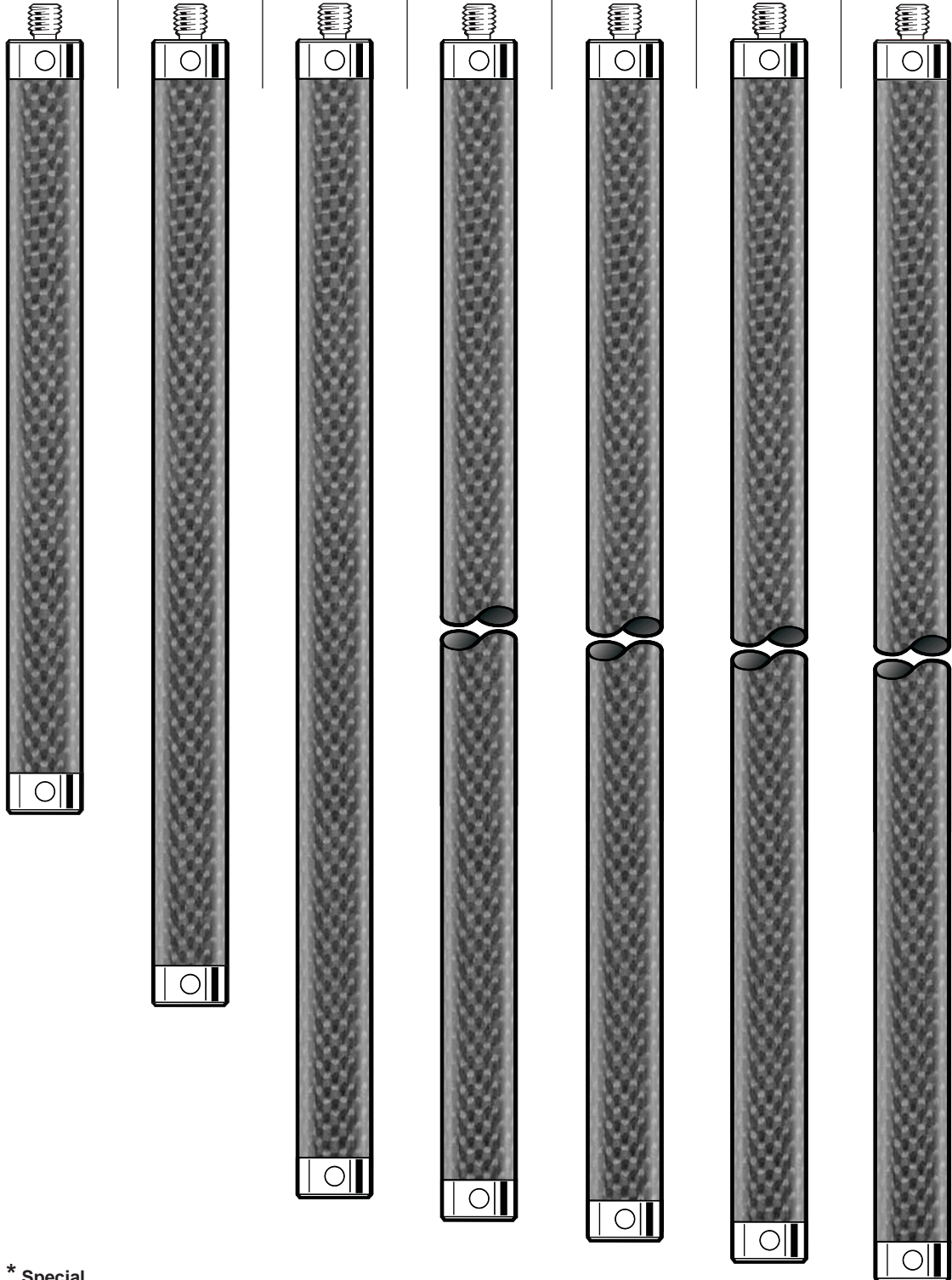
For M5 threaded extensions with  
20 mm (0.79 in) stem diameter



These tools are designed to fit styli extensions to Renishaw probes without causing internal damage

**Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 11 mm)**

Part number	*A-5555-0425	*A-5555-0424	*A-5555-0653	*A-5555-0654	*A-5555-0655	*A-5555-0642	*A-5555-0656
Length mm (inch)	120.0 (4.73)	150.0 (5.91)	180.0 (7.09)	200.0 (7.88)	250.0 (9.85)	300.0 (11.82)	400.0 (15.76)
Stem dia. mm (inch)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)
Mass grammes	13.2	15.4	17.5	18.9	22.4	25.9	33.0

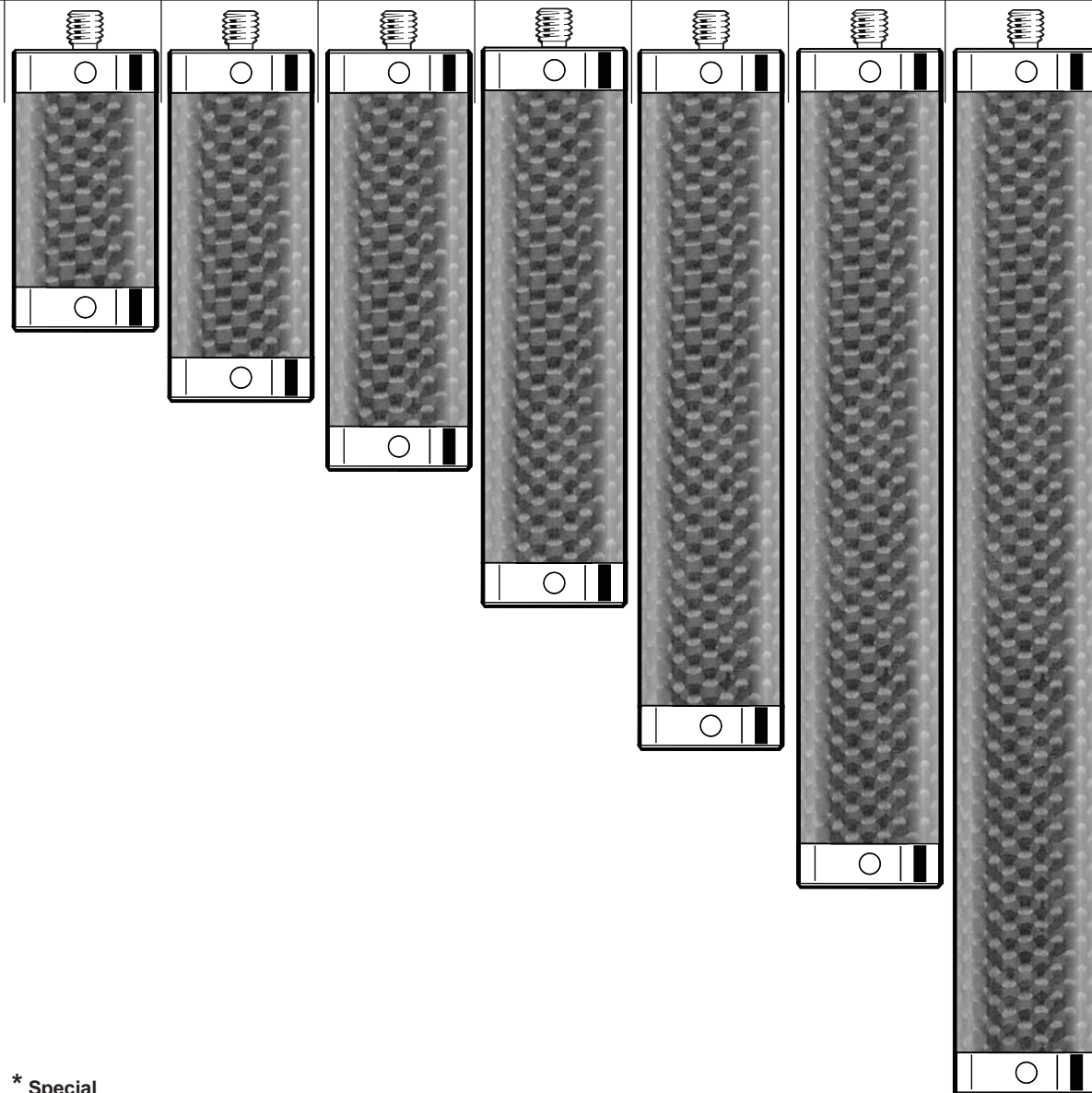


\* Special

M5 threaded  
 stylus range  
**6.10**

**Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 20 mm)**

Part number	*A-5555-0620	*A-5555-0657	*A-5555-0658	*A-5555-0621	*A-5555-0659	*A-5555-0660	*A-5555-0661
Length mm (inch)	40.0 (1.58)	50.0 (1.97)	60.0 (2.37)	80.0 (3.15)	100.0 (3.94)	120.0 (4.73)	150.0 (5.91)
Stem dia. mm (inch)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)
Mass grammes	23.8	25.1	26.5	29.3	32.1	34.9	39.0

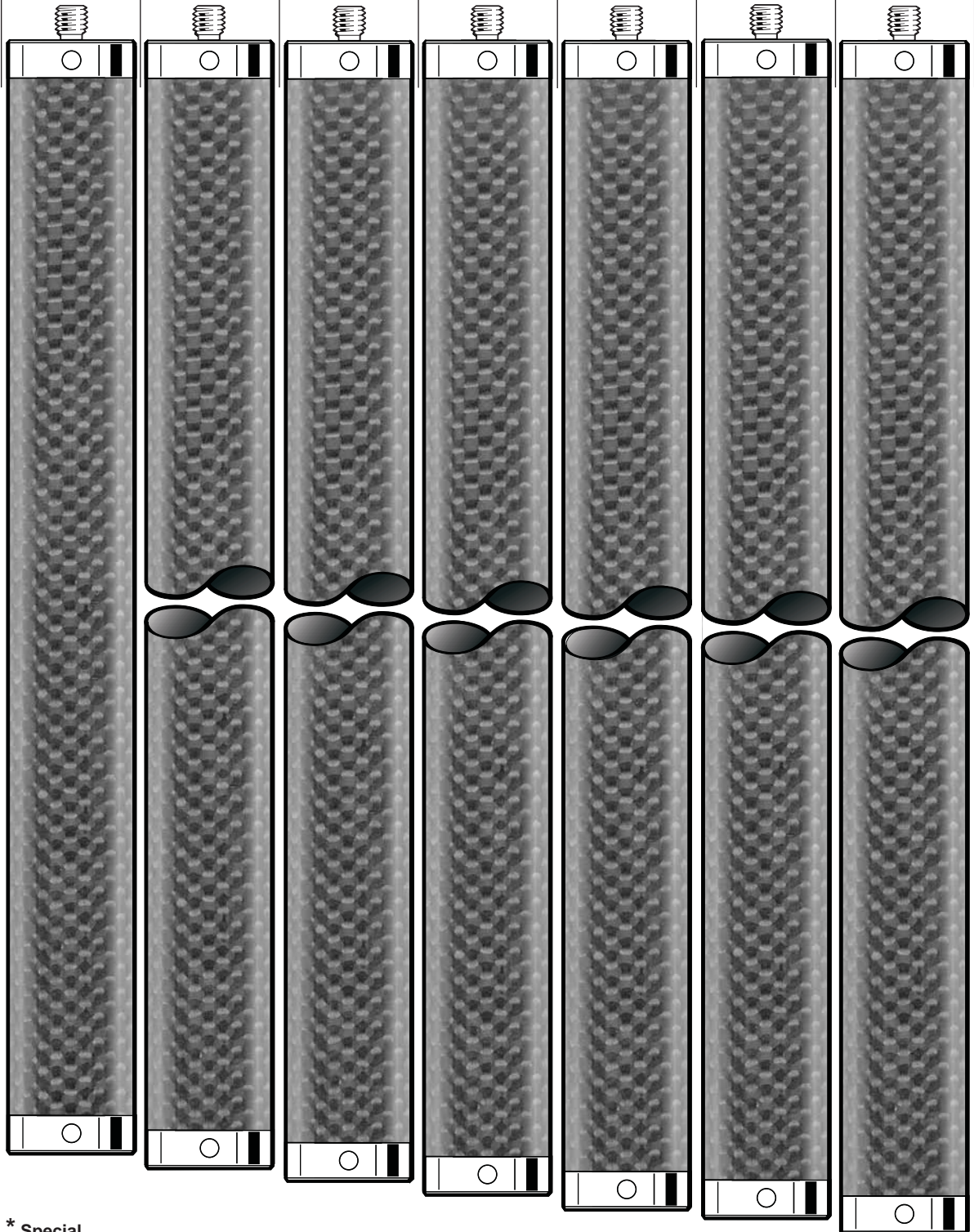


\* Special



**Stylus extensions – thermo stable carbon fibre stems, titanium ends (stem dia. 20 mm)**

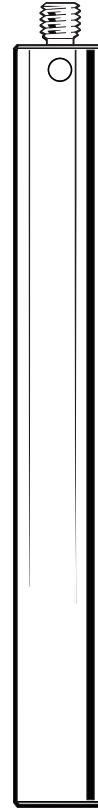
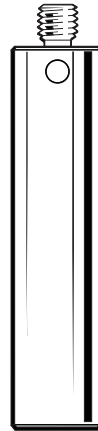
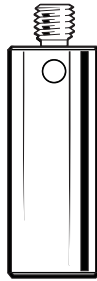
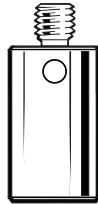
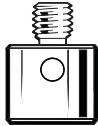
Part number	*A-5555-0662	*A-5555-0663	*A-5555-0427	*A-5555-0664	*A-5555-0665	*A-5555-0667	*A-5555-0668
Length mm (inch)	180.0 (7.09)	200.0 (7.88)	250.0 (9.85)	300.0 (11.82)	400.0 (15.76)	500.0 (19.70)	600.0 (23.64)
Stem dia. mm (inch)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)	20.0 (0.78)
Mass grammes	43.2	46.0	52.9	59.9	73.8	87.7	101.5



\* Special

Stylus extensions – stainless steel

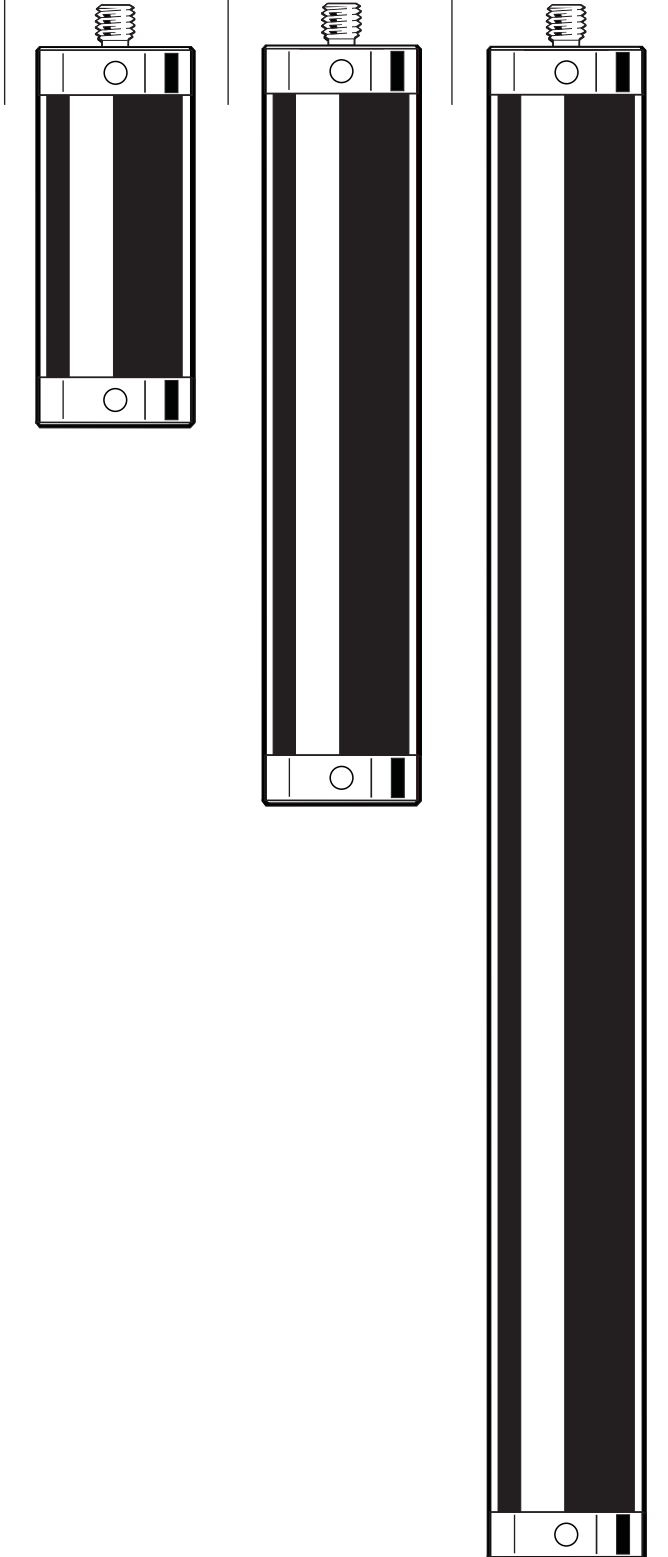
Part number	A-5555-0142	A-5555-0140	A-5555-0669	A-5555-0670	A-5555-0136
Length mm (inch)	10.0 (0.40)	20.0 (0.79)	30.0 (1.19)	50.0 (1.97)	100.0 (3.94)
Stem dia. mm (inch)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)	11.0 (0.44)
Mass grammes	6.0	13.0	20.0	34.8	73.0



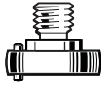
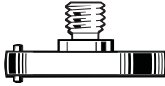
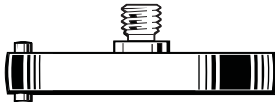
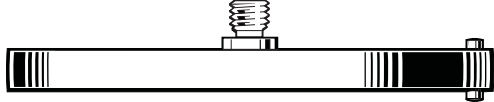


## Stylus extensions – aluminium

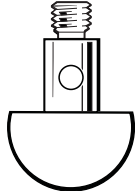
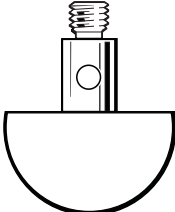
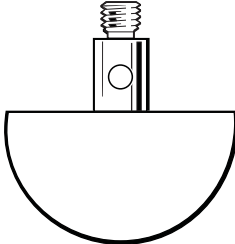
Part number	A-5555-0671	A-5555-0127	A-5555-0125
Length mm (inch)	50.0 (1.97)	100.0 (3.94)	200.0 (7.88)
Stem dia. mm (inch)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)
Mass grammes	47.2	50.0	85.0

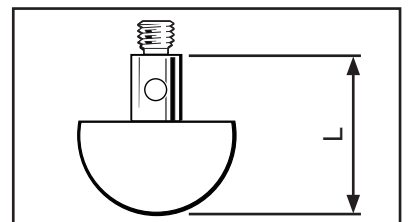


### Disc styli

Part number	A-5003-5288	A-5003-5289	A-5003-5290	A-5003-5291
	Silver steel	Silver steel	Silver steel	Silver steel
Disc dia. mm (inch)	12.0 (0.48)	21.0 (0.83)	35.0 (1.38)	63.5 (2.51)
Disc depth mm (inch)	3.0 (0.12)	3.0 (0.12)	5.0 (0.20)	5.0 (0.20)
Roller depth mm (inch)	5.0 (0.20)	5.0 (0.20)	8.0 (0.32)	8.0 (0.32)
Mass grammes	2.52	5.23	14.00	51.00
				

### Hemispherical styli

Part number	A-5003-5275	A-5003-5276	A-5003-5277
	Ceramic	Ceramic	Ceramic
Ball dia. mm (inch)	16.0 (0.63)	22.0 (0.87)	30.0 (1.19)
Length mm (inch)	19.5 (0.77)	20.5 (0.89)	24.5 (0.96)
Mass grammes	7.0	14.0	19.7
			



# Styli for Faro arms

Styli for Faro arms

7.0



### Styli for Faro arms

These styli have been designed especially for use on Faro portable arm CMMs. Their robust design and construction utilizes Grade 5 Zirconia balls that have a high fracture toughness. The balls are bonded to the high strength tungsten carbide stem with impact resistant adhesive, and specialist construction techniques have been incorporated to ensure that the joint between the body and stem is extremely rigid and virtually indestructible.

#### 1 1/4–20 UN thread styli

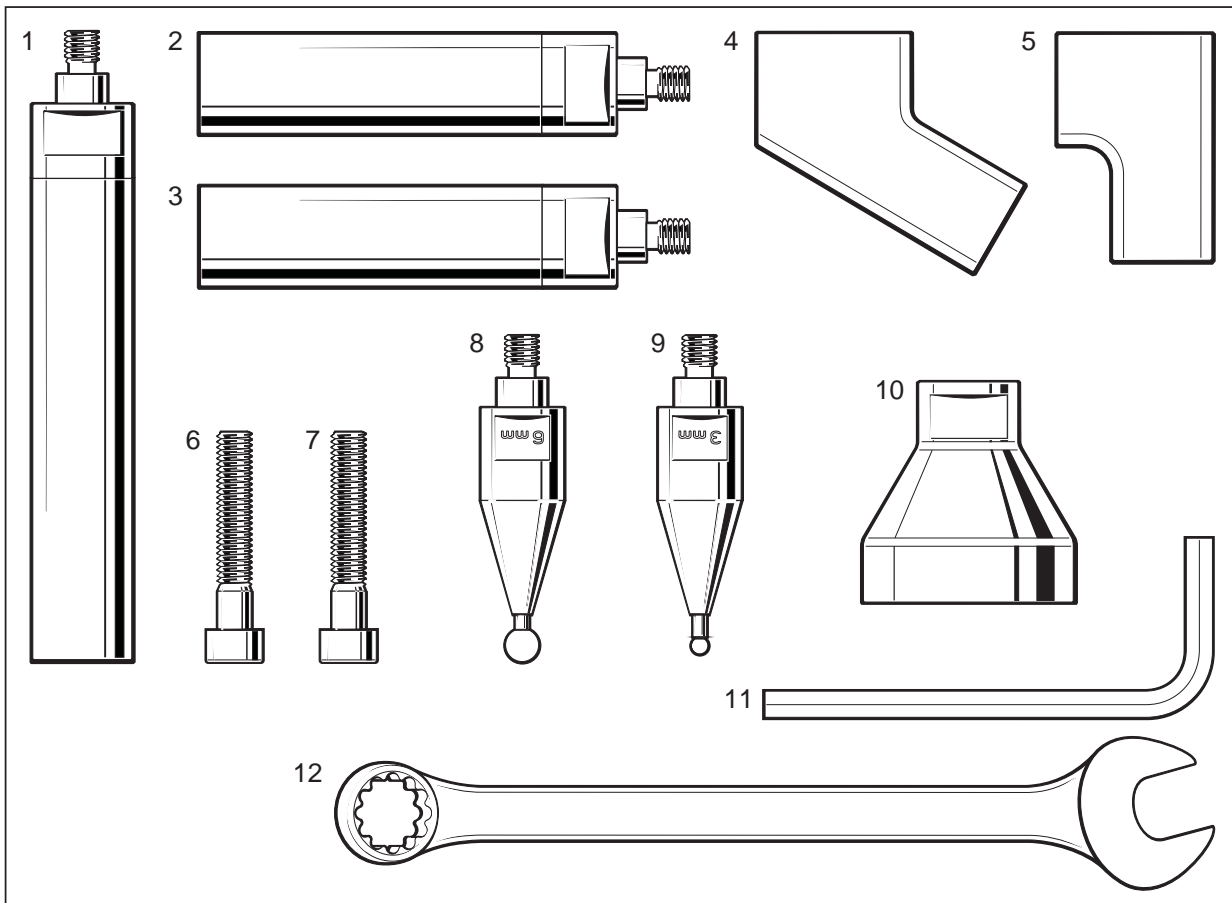
Part number	A-5003-7673	A-5003-7674	A-5003-7675
Ball dia. (mm)	3	6	N/A
Length (mm)	57	57	57

#### M6 styli

Part number	A-5003-7676	A-5003-7677	A-5003-7678	A-5003-7679
Ball dia	1/8 in	1/4 in	3 mm	6 mm
Length (mm)	43	43	43	43

## Faro kit

### A-5003-9190 Faro probe kit 0073 12 piece



Position	Part number	Description
1	A-5003-9127	M6M - M6F EXT L101.6 (4.0) D18 AL
2	A-5003-9126	M6M - M6F EXT L76.2 (3.0) D18 AL
3	A-5003-9126	M6M - M6F EXT L76.2 (3.0) D18 AL
4	A-5003-9186	M6F FARO EXT 60 DEG ADAPTOR
5	A-5003-9187	M6F FARO EXT 90 DEG ADAPTOR
6	P-5C08-0635	SCREW HEX SKT CAPHD M6X35 STST
7	P-5C08-0635	SCREW HEX SKT CAPHD M6X35 STST
8	A-5003-4812	STYLUS M6 DIA 6 MM 21 PROBE 0067
9	A-5003-4811	STYLUS M6 DIA 3 MM 21 PROBE 0065
10	M-5003-9133	FARO ADAPTOR 1.25-20 UN-M6
11	P-TL01-0500	SKT WRENCH 5MM A/F
12	P-TL09-0012	12 MM A/F OPEN/RING SPANNER







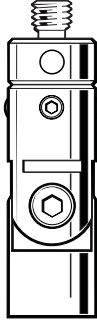
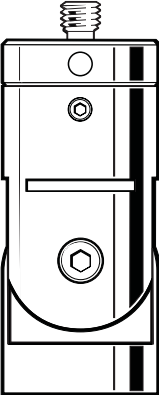


# Accessories



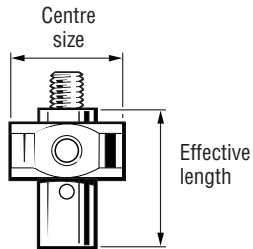
M2 CF stylus tool




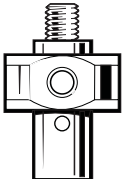
### Stylus knuckles

Part number	A-5000-7534	A-5003-4697	A-5000-9902 Rotary	A-5000-7616	A-5003-4686 Rotary	A-5003-4689 Rotary	*A-5003-5278 Rotary	A-5003-5279 Rotary
Thread size	M2	M2	M2	M3	M3	M4	M5	M5
Effective length mm (inch)	8.0 (0.32)	13.5 (0.54)	16.5 (0.65)	12.0 (0.48)	17.0 (0.67)	33.0 (1.30)	36.5 (1.44)	46.5 (1.84)
Centre offset mm (inch)	4.5 (0.18)	NA	NA	6.0 (0.24)	NA	NA	NA	NA
Mass grammes	1.6	1.1	1.3	3.7	1.5	9.8	16.5	64.9
								

\*Not for use with SP80






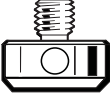


### Stylus centres







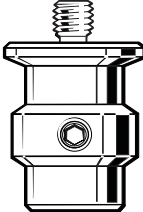
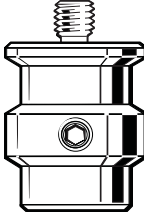


Part number	A-5000-8395 4-way	A-5000-3627 5-way	A-5000-7610 5-way	A-5000-7792 5-way
Thread size	M2	M2	M3	M4
Effective length mm (inch)	7.5 (0.30)	7.5 (0.30)	13.0 (0.52)	18.0 (0.71)
Centre size mm (inch)	7.5 (0.30)	7.0 (0.28)	10.0 (0.40)	15.0 (0.60)
Mass grammes	1.1	0.8	3.6	12.1
				



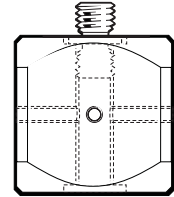
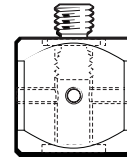
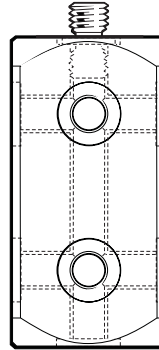
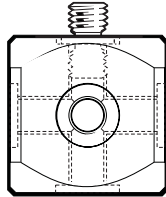
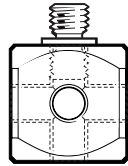
## Adaptors

Part number	M-5000-4164	M-5000-4163	M-5000-6622	M-5000-6714	M-5000-6625	M-5000-9301	A-5003-0856	A-5555-0227
	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Male/female thread	M2/M3	M3/M2	M4/M2	M4/M3	M4/M3	M5/M4	M5/M4	M5/M3
Length mm (inch)	7.0 (0.28)	5.0 (0.20)	5.0 (0.20)	9.0 (0.36)	20.0 (0.79)	6.5 (0.26)	9.0 (0.36)	10.0 (0.40)
Mass grammes	0.4	0.6	1.5	1.4	3.2	6.0	4.6	5.0
								

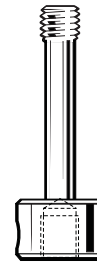
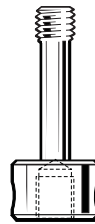
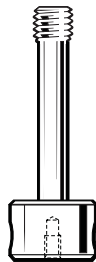
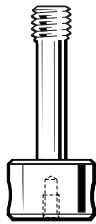
Part number	A-5555-0226	A-5000-7751	M-5000-8167	A-5000-7752	A-5000-7753	A-2054-4657	A-5000-9302	A-5000-9303
	Stainless steel	Ceramic	Stainless steel	Ceramic	Ceramic	Stainless steel	Stainless steel	Stainless steel
Male/female thread	M5/M2	M4/M3	TF6/M3	M4/M3	M4/M3	M4/Ø 4.5	M5/Ø 8.0	M5/Ø 10.0
Length mm (inch)	10.0 (0.40)	50.0 (1.97)	18.0 (0.71)	75.0 (2.96)	100.0 (3.94)	10.0 (0.40)	22.0 (0.87)	22.0 (0.87)
Mass grammes	5.0	4.4	1.9	5.2	6.3	5.0	18.0	20.0
								

### Cubes and bolts

Part number	A-5555-0189 Titanium	A-5555-0190 Titanium	A-5555-0194 Titanium	A-5003-5683 Titanium	A-5003-5684 Titanium
Thread size	M5	M5	M5	M5 – M2	M5 – M2
Length mm (inch)	15.0 (0.60)	20.0 (0.79)	20.0 (0.79)	15.0 (0.60)	20.0 (0.79)
Width mm (inch)	15.0 (0.60)	20.0 (0.79)	40.0 (1.58)	15.0 (0.60)	20.0 (0.79)
Mass grammes	12.85	32.55	63.50	13.75	35.18

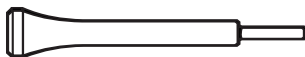


Part number	A-5003-5679 Stainless steel	A-5003-5678 Stainless steel	A-5003-5677 Stainless steel	A-5003-5676 Stainless steel
Thread size	M5 – M2	M5 – M2	M5	M5
Length mm (inch)	28.0 (1.11)	33.0 (1.30)	28.0 (1.11)	33.0 (1.30)
Mass grammes	6.7	7.1	6.0	6.4



### Styli tools

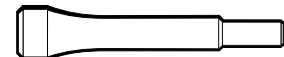
**M-5000-3540**  
For M2 and M3  
threaded styli



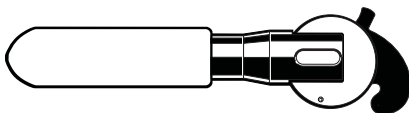
**M-5000-3707**  
For M4  
threaded styli



**M-5000-9304**  
For M5  
threaded styli

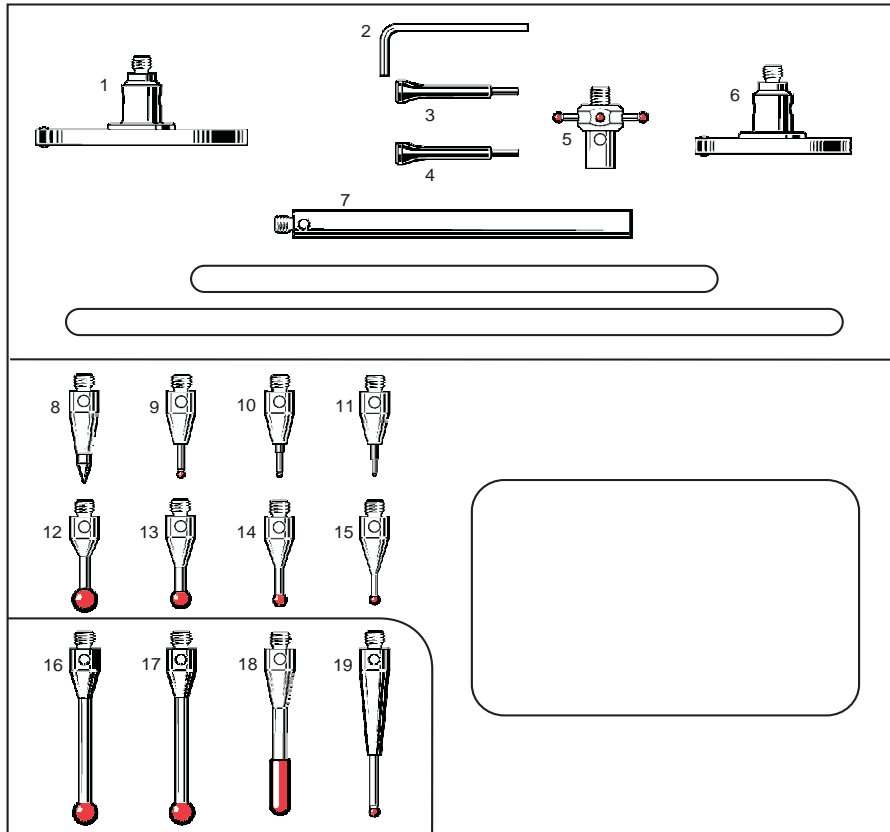


**A-5003-2300**  
For the M2 carbon fibre  
range of styli



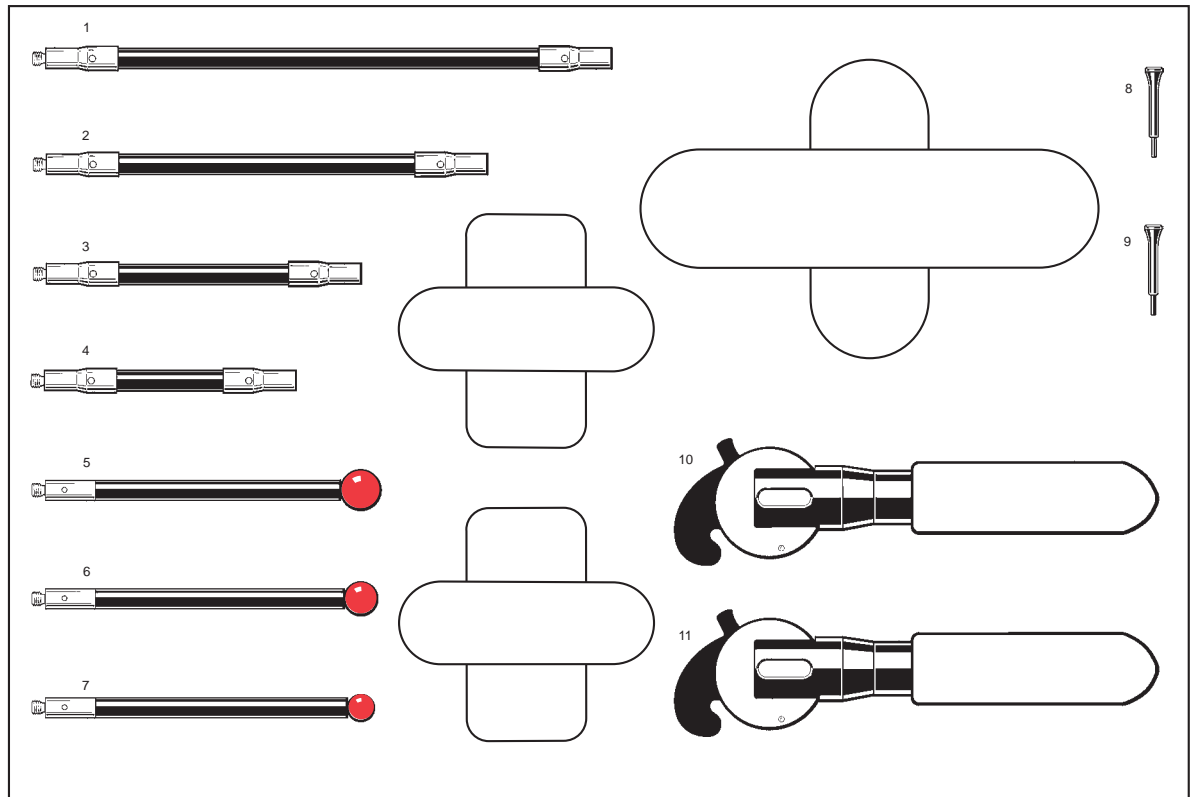
M2 styli kits

**A-5000-0002 M2 stylus enhancement kit**



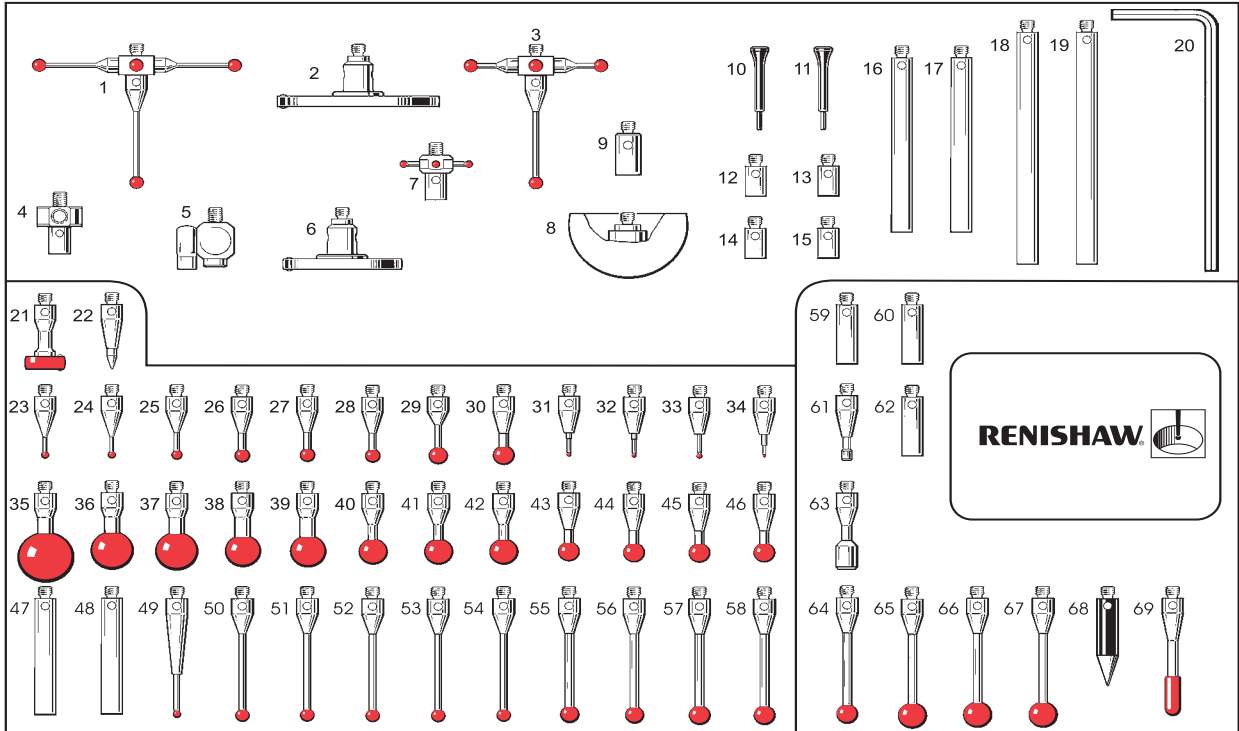
Position	Part number	Description
1	A-5000-7810	M2 DSC D25SLVS T1.5 L8.6 BR-Y2.5
2	P-TL01-0150	S3 HEXWRENCH 1.5MM A/F
3	M-5000-3540	M2-M3 STYLUS TOOL
4	M-5000-3540	M2-M3 STYLUS TOOL
5	A-5000-7811	M2 STR D14BALL L7.5T S10
6	A-5000-7809	M2 DSC D18SLVS T1.5 L8.6 BR-Y1.5
7	M-5000-7779	M2 EXT L40 d3SS
8	A-5000-7813	M2 PNT D1.4TC 30degL10
9	A-5000-7801	M2 STY D0.7R L10 EWL4 d0.5TC
10	A-5000-7805	M2 STY D0.5R L10 EWL3 d0.4TC
11	A-5000-7800	M2 STY D0.3R L10 EWL2 d0.2TC
12	A-5000-7803	M2 STY D2.5R L10 EWL6 d1SS
13	A-5000-7807	M2 STY D2R L10 EWL6 d1SS
14	A-5000-7802	M2 STY D1.5R L10 EWL4.5 d0.7SS
15	A-5000-7806	M2 STY D1R L10 EWL4.5 d0.7SS
16	A-5000-7804	M2 STY D2.5R L20 EWL14 d1.4SS
17	A-5000-7804	M2 STY D2.5R L20 EWL14 d1.4SS
18	A-5000-7812	M2 SPH D2R L20 EWL7.2 SS
19	A-5000-7808	M2 STY D1R L20 EWL7 d0.7TC

A-5003-2310 M2 high performance kit



Position	Part number	Description
1	A-5003-2283	M2 EXT L90 d3CF
2	A-5003-2282	M2 EXT L70 d3CF
3	A-5003-2281	M2 EXT L50 d3CF
4	A-5003-2280	M2 EXT L40 d3CF
5	A-5003-2287	M2 STY D6R L50 EWL50 d3CF
6	A-5003-2286	M2 STY D5R L50 EWL50 d3CF
7	A-5003-2285	M2 STY D4R L50 EWL50 d3CF
8	M-5000-3540	M2-M3 STYLUS TOOL
9	M-5000-3540	M2-M3 STYLUS TOOL
10	A-5003-2300	M2 STYLUS TOOL CF RANGE
11	A-5003-2300	M2 STYLUS TOOL CF RANGE

**A-5000-0001 M2 comprehensive stylus kit**

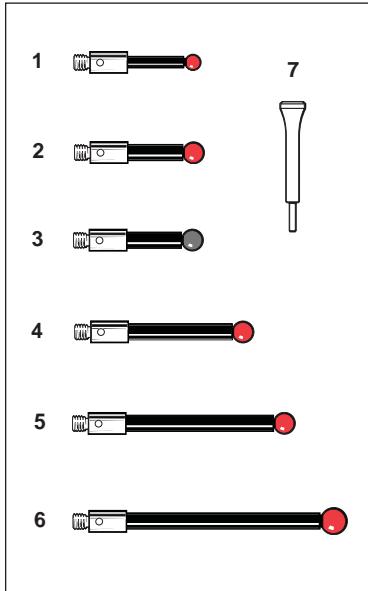


Position	Part number	Description
1	A-5000-3626	M2 STR D2 5BALL L19.2 S30
2	A-5000-7810	M2 DSC D25SLVS T1.5 L8.6 BR-Y2.5
3	A-5000-7629	M2 STR D2 5BALL L19.2 S18
4	A-5000-3627	M2 ACC CENTRE 5WAY
5	A-5000-7534	M2 ACC KNUCKLE OFFSET
6	A-5000-7809	M2 DSC D18SLVS T1.5 L8.6 BR-Y2.5
7	A-5000-7811	M2 STR D1 4BALL L7.5 S10
8	A-5000-3614	M2 HEM D18CE
9	M-5000-4164	M2-M3 EXT L7SS
10	M-5000-3540	M2-M3 STYLUS TOOL
11	M-5000-3540	M2-M3 STYLUS TOOL
12	M-5000-7634	M2 EXT L5 d3SS
13	M-5000-7634	M2 EXT L5 d3SS
14	M-5000-7634	M2 EXT L5 d3SS
15	M-5000-7634	M2 EXT L5 d3SS
16	M-5000-4162	M2 EXT L30 d3SS
17	M-5000-4162	M2 EXT L30 d3SS
18	M-5000-7779	M2 EXT L40 d3SS
19	M-5000-7779	M2 EXT L40 d3SS
20	P-TL01-0150	S3 HEXWRENCH 1.5MMA/F
21	A-5000-3611	M2 DSC D6R T1.2 L10 BR-Y2
22	A-5000-7813	M2 PNT D1.4TC 30deg L10
23	A-5000-7806	M2 STY D1R L10 EWL4.5 d0.7SS
24	A-5000-7806	M2 STY D1R L10 EWL4.5 d0.7SS
25	A-5000-7802	M2 STY D1.5R L10 EWL4.5 d0.7SS
26	A-5000-7807	M2 STY D2R L10 EWL6 d1SS
27	A-5000-7807	M2 STY D2R L10 EWL6 d1SS
28	A-5000-7807	M2 STY D2R L10 EWL6 d1SS
29	A-5000-7803	M2 STY D2.5R L10 EWL6 d1SS
30	A-5000-3604	M2 STY D3R L10 EWL7.5 d1.5SS
31	A-5000-7805	M2 STY D0.5R L10 EWL3 d0.4TC
32	A-5000-7805	M2 STY D0.5R L10 EWL3 d0.4TC
33	A-5000-7801	M2 STY D0.7R L10 EWL4 d0.5TC
34	A-5000-7800	M2 STY D0.3R L10 EWL2 d0.2TC
35	A-5000-4158	M2 STY D8R L11 EWL11 d2.5SS

Position	Part number	Description
36	A-5000-4156	M2 STY D6R L11 EWL10 d2.5SS
37	A-5000-4156	M2 STY D6R L11 EWL10 d2.5SS
38	A-5000-4155	M2 STY D5R L10 EWL10 d2.5SS
39	A-5000-4155	M2 STY D5R L10 EWL10 d2.5SS
40	A-5000-4154	M2 STY D4R L10 EWL10 d1.5SS
41	A-5000-4154	M2 STY D4R L10 EWL10 d1.5SS
42	A-5000-4154	M2 STY D4R L10 EWL10 d1.5SS
43	A-5000-3604	M2 STY D3R L10 EWL7.5 d1.5SS
44	A-5000-3604	M2 STY D3R L10 EWL7.5 d1.5SS
45	A-5000-3604	M2 STY D3R L10 EWL7.5 d1.5SS
46	M-5000-3604	M2 STY D3R L10 EWL7.5 d1.5SS
47	M-5000-3648	M2 EXT L20 d3SS
48	M-5000-3648	M2 EXT L20 d3SS
49	A-5000-7808	M2 STY D1R L20 EWL7 d0.7TC
50	A-5000-3603	M2 STY D2R L20 EWL14 d1.4SS
51	A-5000-3603	M2 STY D2R L20 EWL14 d1.4SS
52	A-5000-3603	M2 STY D2R L20 EWL14 d1.4SS
53	A-5000-3603	M2 STY D2R L20 EWL14 d1.4SS
54	A-5000-3603	M2 STY D2R L20 EWL14 d1.4SS
55	A-5000-7804	M2 STY D2.5R L20 EWL14 d1.4SS
56	A-5000-7804	M2 STY D2.5R L20 EWL14 d1.4SS
57	A-5000-4160	M2 STY D3R L20 EWL17.5 d1.5SS
58	A-5000-4160	M2 STY D3R L20 EWL17.5 d1.5SS
59	M-5000-3647	M2 EXT L10 d3SS
60	M-5000-3647	M2 EXT L10 d3SS
61	M-5000-4152	M2 CYL D1.5SLVS L11 EWL1.5
62	A-5000-3647	M2 EXT L10 d3SS
63	M-5000-4153	M2 CYL D3SLVS L13 EWL3.8
64	A-5000-4160	M2 STY D3R L20 EWL17.5 d1.5SS
65	A-5000-4161	M2 STY D4R L20 EWL20 d1.5SS
66	A-5000-4161	M2 STY D4R L20 EWL20 d1.5SS
67	A-5000-4161	M2 STY D4R L20 EWL20 d1.5SS
68	M-5000-4150	M2 PNT D3SLVS 30deg L15
69	A-5000-7812	M2 SPH D2R L20 EWL7.2 SS

M3 styli kits

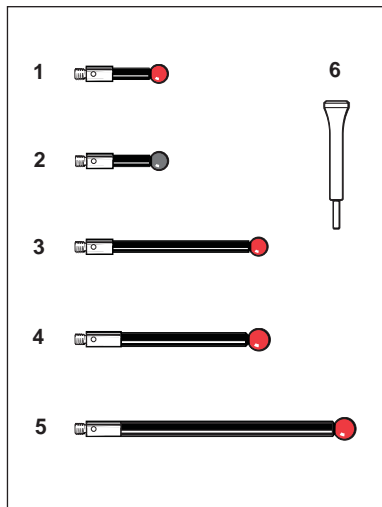
A-5003-6151 M3 stylus kit for SP25M/SM25-1/SH25-1



Position	Part number	Description
1	A-5003-5970	M3 STY D3R L21 EWL13.5 d2CF
2	A-5003-5971	M3 STY D4R L21 EWL13.5 d3CF
3	A-5003-5977	M3 STY D4SIN L21 EWL13.5 d3CF
4	A-5003-5972	M3 STY D4R L31 EWL23.5 d3CF
5	A-5003-5973	M3 STY D4R L40 EWL32.5 d3CF
6	A-5003-5974	M3 STY D5R L50 EWL42.5 d3CF
7	M-5000-3540	M2-M3 STYLUS TOOL

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A-5003-6152 M3 stylus kit for SP25M/SM25-2/SH25-2

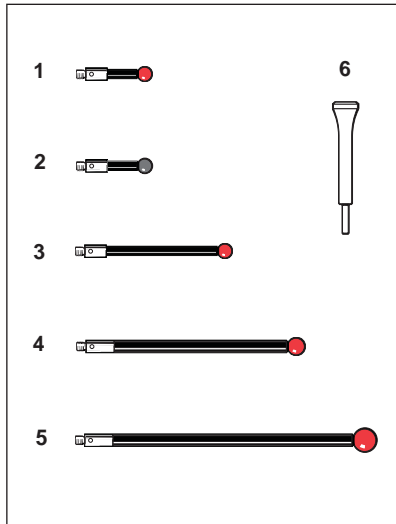


Position	Part number	Description
1	A-5003-5975	M3 STY D5R L21 EWL13.5 d3CF
2	A-5003-5978	M3 STY D5SIN L21 EWL13.5 d3CF
3	A-5003-5974	M3 STY D5R L50 EWL42.5 d3CF
4	A-5003-5976	M3 STY D6R L50 EWL50 d4CF
5	A-5003-4860	M3 STY D6R L75 EWL75 d4CF
6	M-5000-3540	M2-M3 STYLUS TOOL

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**A-5003-6153 M3 stylus kit for SP25M/SM25-3/SH25-3**

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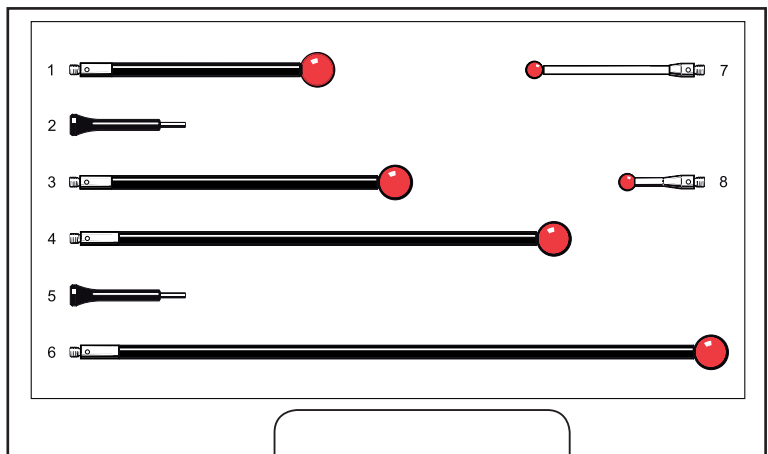
Position	Part number	Description
1	A-5003-5975	M3 STY D5R L21 EWL13.5 d3CF
2	A-5003-5978	M3 STY D5SIN L21 EWL13.5 d3CF
3	A-5003-5974	M3 STY D5R L50 EWL42.5 d3CF
4	A-5003-4860	M3 STY D6R L75 EWL75 d4CF
5	A-5003-4863	M3 STY D8R L100 EWL100 d4CF
6	M-5000-3540	M2-M3 STYLUS TOOL

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**\*A-5003-8124 M3 stylus kit for SP25M/SM25-4/SH25-4**

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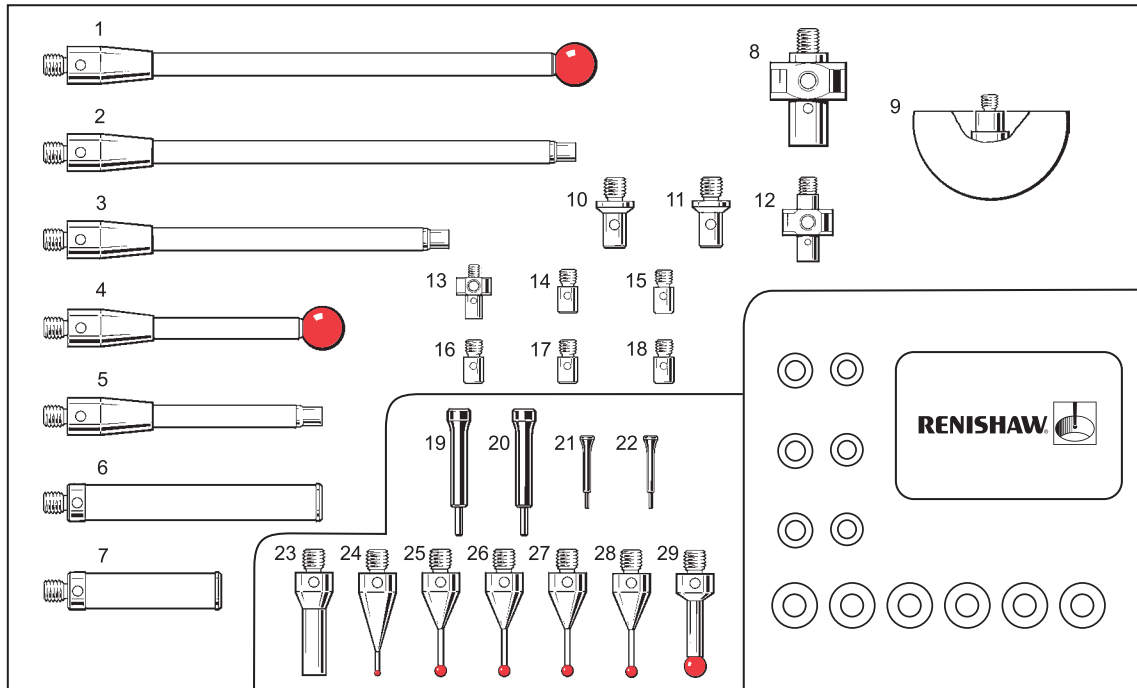
Position	Part number	Description
1	A-5003-7057	M3 STYLUS D10R L75 EWL75 d4C/F
2	M-5000-3540	M2/M3 STYLUS TOOL
3	A-5003-7056	M3 STYLUS D10R L100 EWL100 d4C/F
4	A-5003-7055	M3 STYLUS D10R L150 EWL150 d4C/F
5	M-5000-3540	M2/M3 STYLUS TOOL
6	A-5003-7054	M3 STYLUS D10R L200 EWL200 d4C/F
7	A-5003-0069	M3 STYLUS D5R L50 EWL50 d2.5CER
8	A-5000-7630	M3 STYLUS D5R L21 EWL21 d2.5SS



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M4 styli kits

A-5000-7829 M4 stylus kit (TP7M use)

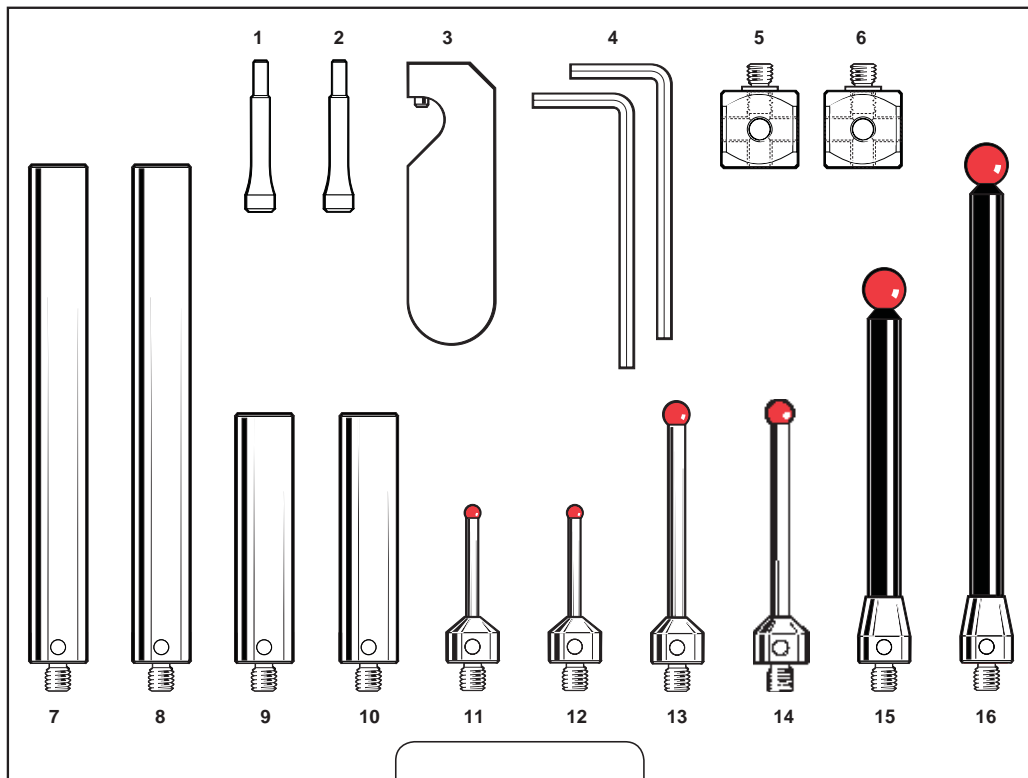


Position	Part number	Description
1	A-5000-7796	M4 STY D8R L100 EWL100 d4.5CE
2	A-5000-7753	M4-M3 EXT L100CE
3	A-5000-7752	M4-M3 EXT L75CE
4	A-5000-7795	M4 STY D8R L50 EWL50 D4.5CE
5	A-5000-7751	M4-M3 EXT L50CE
6	A-5000-7755	M4 EXT L50 d7.4CE
7	A-5000-7754	M4 EXT L30 d7.4CE
8	A-5000-7792	M4 ACC CENTRE 5WAY
9	A-5000-7814	M3 HEM D30CE
10	A-5000-6714	M4-M3 EXT L9SS
11	A-5000-6714	M4-M3 EXT L9SS
12	A-5000-7610	M3 ACC CENTRE 5WAY
13	A-5000-3627	M2 ACC CENTRE 5WAY
14	A-5000-4163	M3-M2 EXT L5SS
15	A-5000-4163	M3-M2 EXT L5SS
16	A-5000-4163	M3-M2 EXT L5SS
17	A-5000-4163	M3-M2 EXT L5SS
18	A-5000-4163	M3-M2 EXT L5SS
19	M-5000-3707	M4 STYLUS TOOL
20	M-5000-3707	M4 STYLUS TOOL
21	M-5000-3540	M2-M3 STYLUS TOOL
22	M-5000-3540	M2-M3 STYLUS TOOL
23	A-5000-6625	M4-M3 EXT L20SS
24	A-5000-7545	M4 STY D1R L19.5 EWL4 d0.7SS
25	A-5000-7547	M4 STY D2R L19 EWL8 d1.4SS
26	A-5000-7547	M4 STY D2R L19 EWL8 d1.4SS
27	A-5000-7547	M4 STY D2R L19 EWL8 d1.4SS
28	A-5000-7547	M4 STY D2R L19 EWL8 d1.4SS
29	A-5000-7551	M4 STY D4R L18 EWL13 d3SS



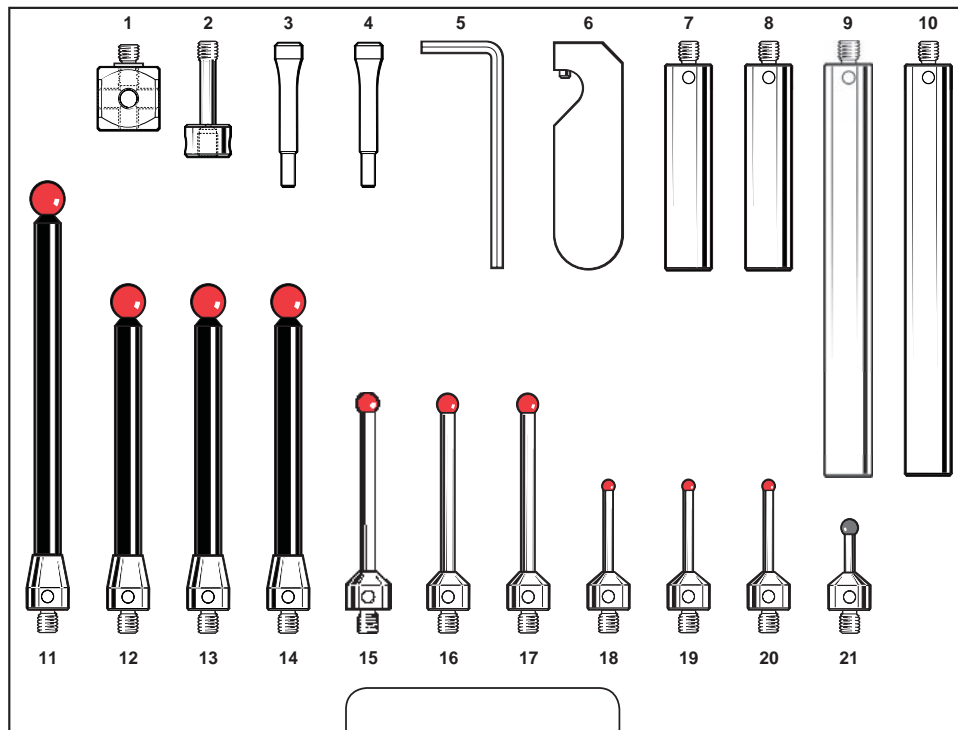
M5 styli kits

A-5003-6168 M5 stylus kit SP80



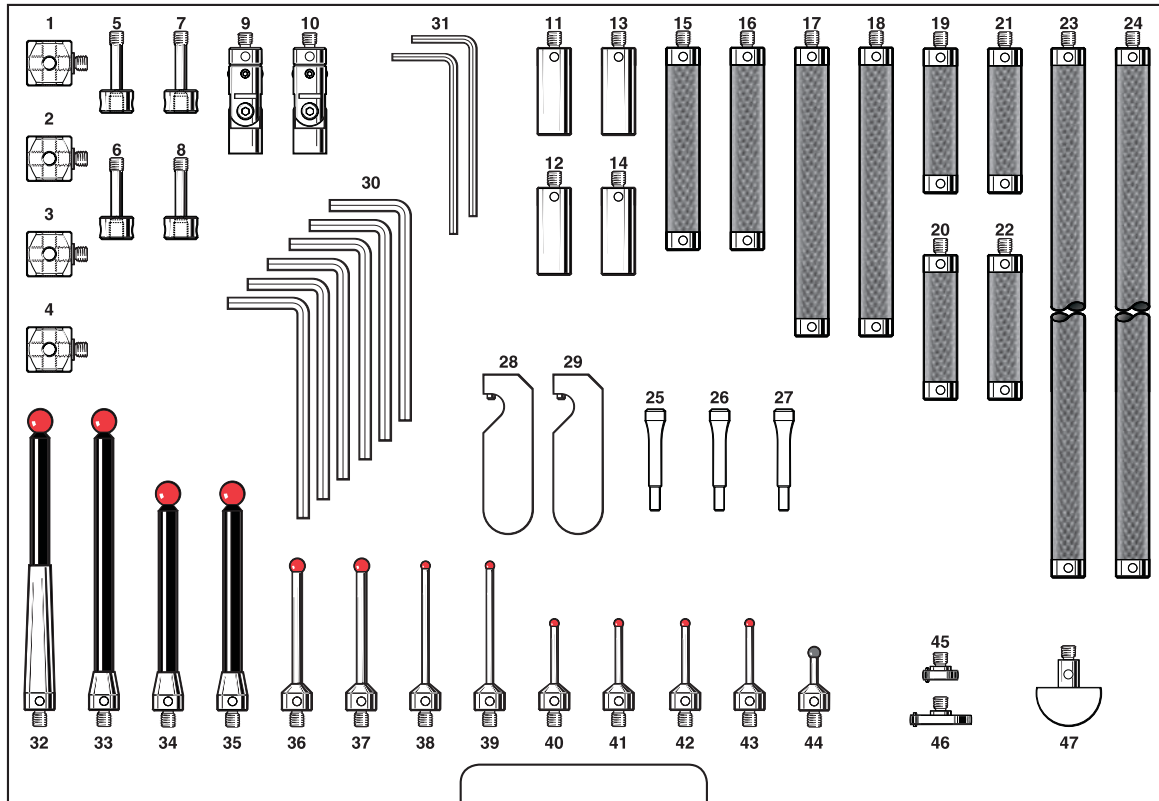
Position	Part number	Description
1	M-5000-9304	M5 STYLUS TOOL
2	M-5000-9304	M5 STYLUS TOOL
3	A-5003-6134	M5 ACC D11 EXTENSION TOOL
4	P-TL01-0250	S3 HEX WRENCH 2.5 MM A/F
5	A-5555-0189	M5 ACC 15X15 CUBE
6	A-5555-0189	M5 ACC 15X15 CUBE
7	A-5555-0136	M5 EXT L100 d11SS
8	A-5555-0136	M5 EXT L100 d11SS
9	A-5555-0670	M5 EXT L50 d11SS
10	A-5555-0670	M5 EXT L50 d11SS
11	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
12	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
13	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
14	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
15	A-5003-5251	M5 STY D8R L75 EWL62 d6CF
16	A-5003-5262	M5 STY D8R L100 EWL87 d6CF

A-5003-5911 M5 stylus kit - standard



Position	Part number	Description
1	A-5555-0189	M5 ACC 15X15 CUBE
2	A-5003-5677	M5 ACC CUBE BOLT L28
3	M-5000-9304	M5 STYLUS TOOL
4	M-5000-9304	M5 STYLUS TOOL
5	P-TL01-0250	S3 HEX WRENCH 2.5 MM A/F
6	A-5003-6134	M5 ACC D11 EXTENSION TOOL
7	A-5555-0670	M5 EXT L50 d11SS
8	A-5555-0670	M5 EXT L50 d11SS
9	A-5555-0136	M5 EXT L100 d11SS
10	A-5555-0136	M5 EXT L100 d11SS
11	A-5003-5262	M5 STY D8R L100 EWL87 d6CF
12	A-5003-5251	M5 STY D8R L75 EWL62 d6CF
13	A-5003-5251	M5 STY D8R L75 EWL62 d6CF
14	A-5003-5251	M5 STY D8R L75 EWL62 d6CF
15	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
16	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
17	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
18	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
19	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
20	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
21	A-5003-5733	M5 STY D4SN L20 EWL11 d2TC

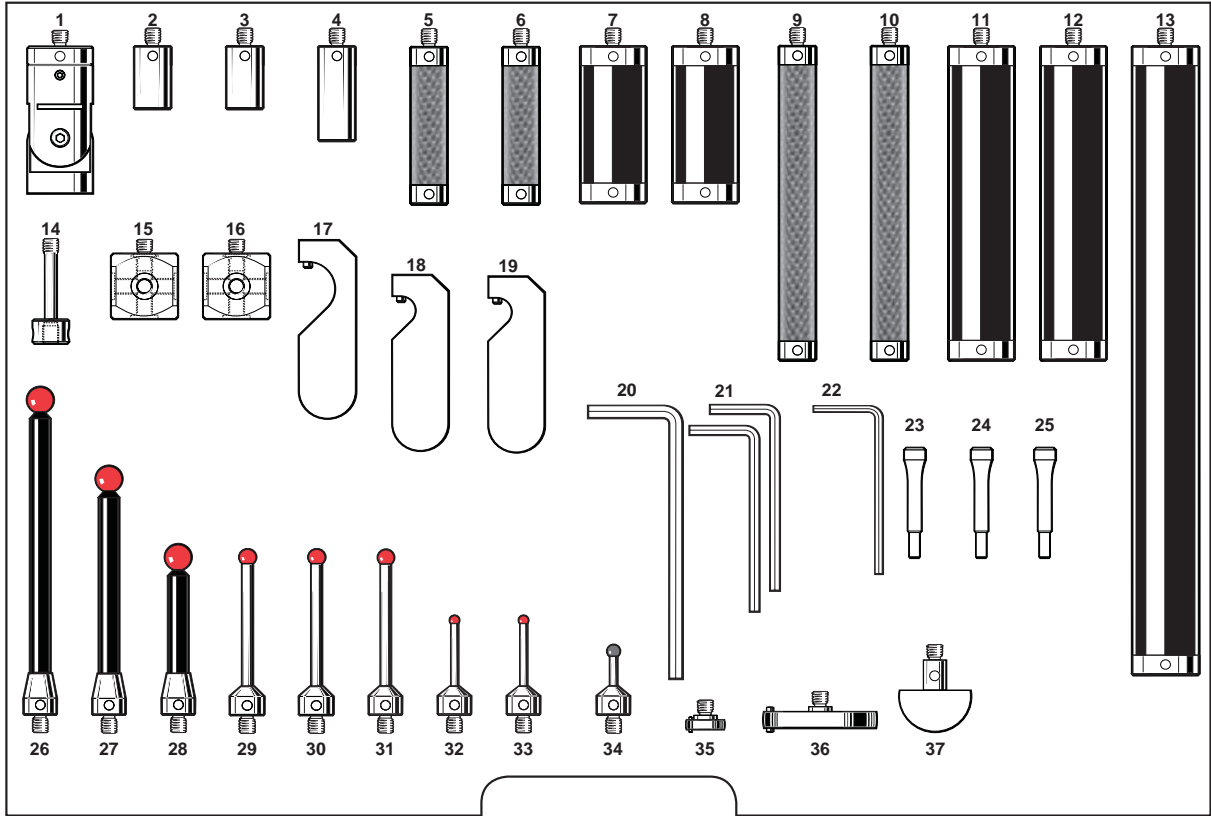
**A-5003-5909 M5 stylus kit - comprehensive**



Position	Part number	Description
1	A-5555-0189	M5 ACC 15X15 CUBE
2	A-5555-0189	M5 ACC 15X15 CUBE
3	A-5555-0189	M5 ACC 15X15 CUBE
4	A-5555-0189	M5 ACC 15X15 CUBE
5	A-5003-5677	M5 ACC CUBE BOLT L28
6	A-5003-5677	M5 ACC CUBE BOLT L28
7	A-5003-5677	M5 ACC CUBE BOLT L28
8	A-5003-5677	M5 ACC CUBE BOLT L28
9	A-5003-5278	M5 ACC KNUCKLE d11 ROTARY
10	A-5003-5278	M5 ACC KNUCKLE d11 ROTARY
11	A-5555-0669	M5 EXT L30 d11SS
12	A-5555-0669	M5 EXT L30 d11SS
13	A-5555-0669	M5 EXT L30 d11SS
14	A-5555-0669	M5 EXT L30 d11SS
15	A-5555-0623	M5 EXT L70 d11CF
16	A-5555-0623	M5 EXT L70 d11CF
17	A-5555-0652	M5 EXT L100 d11CF
18	A-5555-0652	M5 EXT L100 d11CF
19	A-5555-0648	M5 EXT L50 d11CF
20	A-5555-0648	M5 EXT L50 d11CF
21	A-5555-0648	M5 EXT L50 d11CF
22	A-5555-0648	M5 EXT L50 d11CF
23	A-5555-0654	M5 EXT L200 d11CF
24	A-5555-0654	M5 EXT L200 d11CF

25	M-5000-9304	M5 STYLUS TOOL
26	M-5000-9304	M5 STYLUS TOOL
27	M-5000-9304	M5 STYLUS TOOL
28	A-5003-6134	M5 ACC D11 EXTENSION TOOL
29	A-5003-6134	M5 ACC D11 EXTENSION TOOL
30	P-TL01-0250	S3 HEX WRENCH 2.5 MM A/F
31	P-TL01-0150	S3 HEX WRENCH 1.5 MM A/F
32	A-5003-5261	M5 STY D8R L100 EWL50 d6CF
33	A-5003-5262	M5 STY D8R L100 EWL87 d6CF
34	A-5003-5251	M5 STY D8R L75 EWL62 d6CF
35	A-5003-5251	M5 STY D8R L75 EWL62 d6CF
36	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
37	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
38	A-5003-5234	M5 STY D3R L50 EWL41 d2TC
39	A-5003-5234	M5 STY D3R L50 EWL41 d2TC
40	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
41	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
42	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
43	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
44	A-5003-5733	M5 STY D4SN L20 EWL11 d2TC
45	A-5003-5288	M5 DSC D12SLVS T3 L3 BR-Y
46	A-5003-5289	M5 DSC D21SLVS T3 L3 BR-Y
47	A-5003-5276	M5 HEM D22CE d7SS

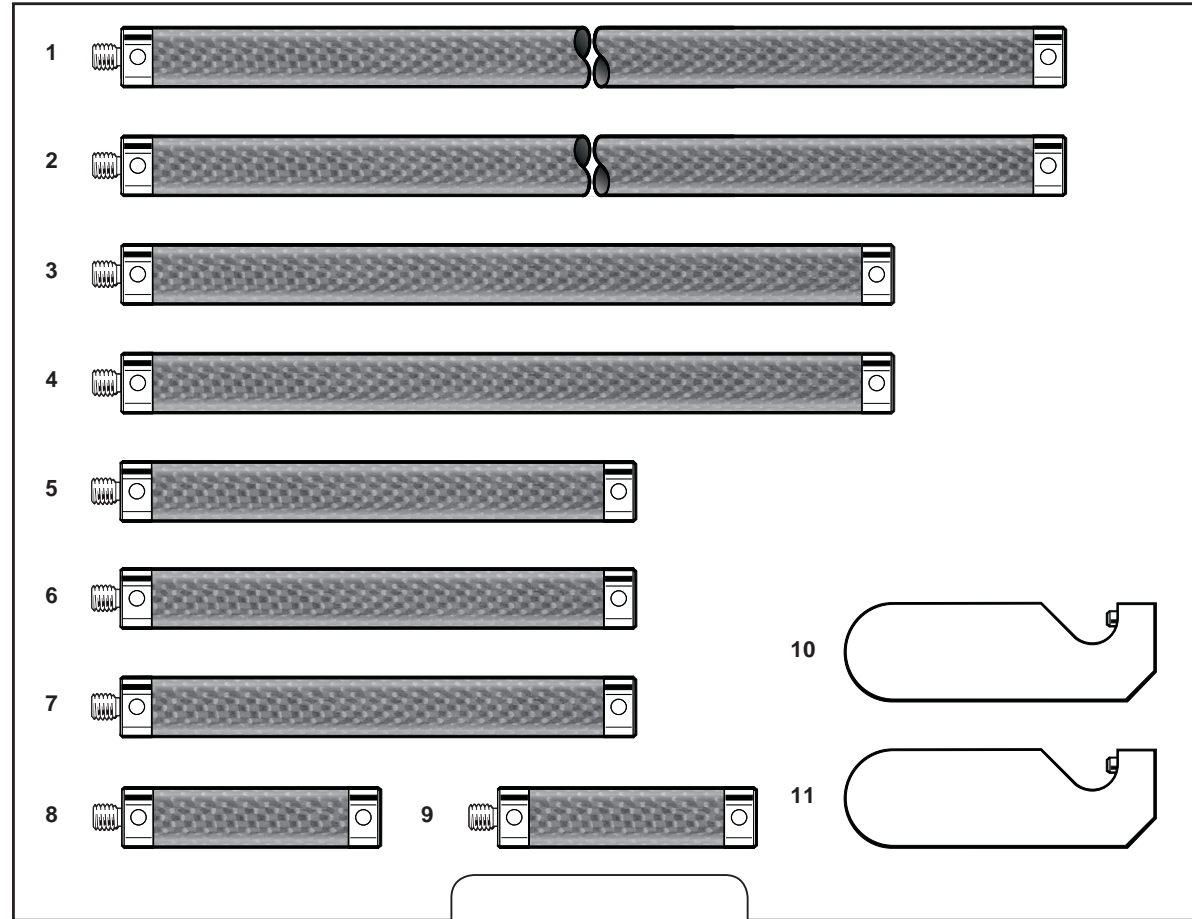
A-5003-5910 M5 stylus kit - general purpose



Position	Part number	Description
1	A-5003-5279	M5 ACC KNUCKLE d20 ROTARY
2	A-5555-0140	M5 EXT L20 d11SS
3	A-5555-0140	M5 EXT L20 d11SS
4	A-5555-0669	M5 EXT L30 d11SS
5	A-5555-0648	M5 EXT L50 d11CF
6	A-5555-0648	M5 EXT L50 d11CF
7	A-5555-0671	M5 EXT L50 d20AL
8	A-5555-0671	M5 EXT L50 d20AL
9	A-5555-0652	M5 EXT L100 d11CF
10	A-5555-4652	M5 EXT L100 d11CF
11	A-5555-0127	M5 EXT L100 d20AL
12	A-5555-0127	M5 EXT L100 d20AL
13	A-5555-0125	M5 EXT L200 d20AL
14	A-5003-5676	M5 ACC CUBE BOLT L33
15	A-5555-0190	M5 ACC 20X20 CUBE
16	A-5555-0190	M5 ACC 20X20 CUBE
17	A-5003-6135	M5 ACC D20 EXTENSION TOOL
18	A-5003-6134	M5 ACC D11 EXTENSION TOOL
19	A-5003-6134	M5 ACC D11 EXTENSION TOOL
20	P-TL01-0300	S3 HEX WRENCH 3.0 MM A/F
21	P-TL01-0250	S3 HEX WRENCH 2.5 MM A/F
22	P-TL01-0150	S3 HEX WRENCH 1.5 MM A/F
23	M-5000-9304	M5 STYLUS TOOL
24	M-5000-9304	M5 STYLUS TOOL
25	M-5000-9304	M5 STYLUS TOOL

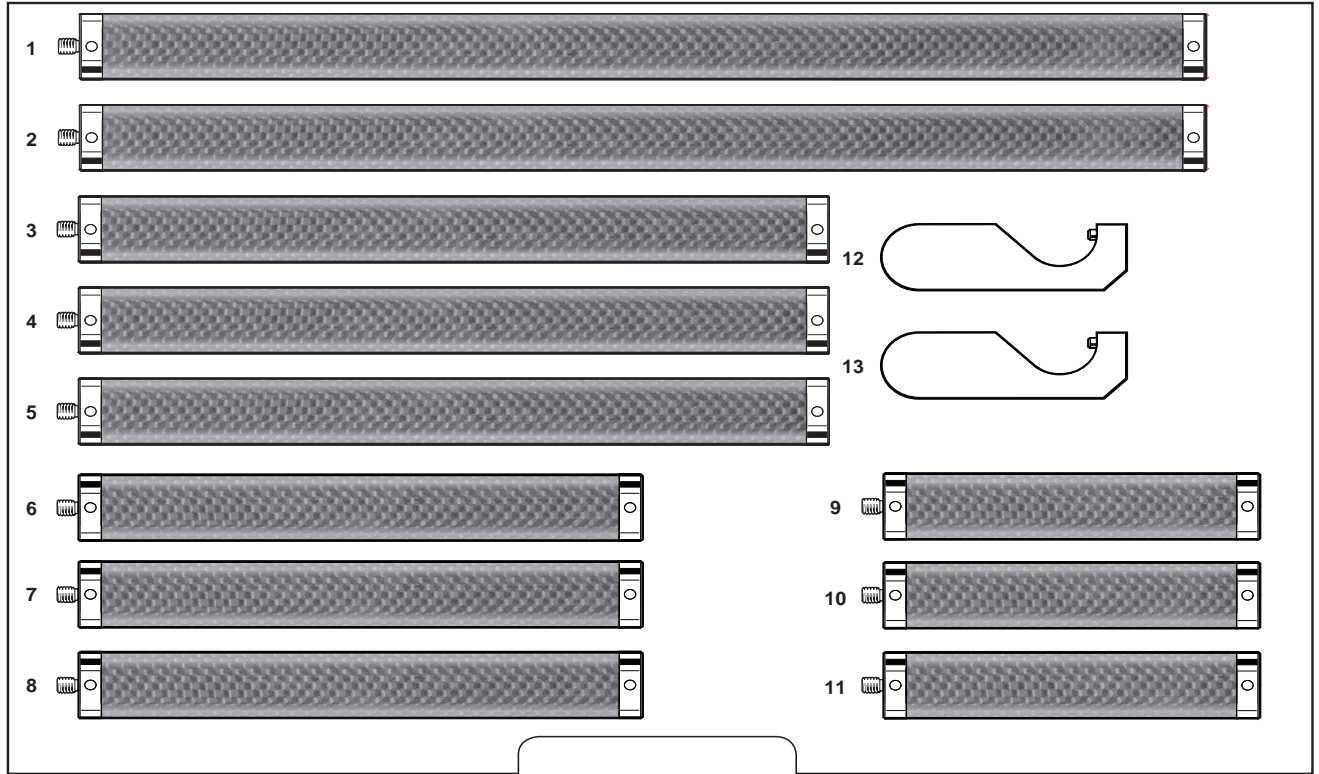
26	A-5003-5262	M5 STY D8R L100 EWL87 d6CF
27	A-5003-5251	M5 STY D8R L75 EWL62 d6CF
28	A-5003-5238	M5 STY D8R L50 EWL37 d6CF
29	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
30	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
31	A-5003-5236	M5 STY D5R L50 EWL41 d3TC
32	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
33	A-5003-5218	M5 STY D3R L30 EWL21 d2TC
34	A-5003-5733	M5 STY D4SN L20 EWL11 d2TC
35	A-5003-5288	M5 DSC D12SLVS T3 L3 BR-Y
36	A-5003-5290	M5 DSC D35SLVS T5 L4 BR-Y
37	A-5003-5276	M5 HEM D22CE d7SS

**A-5003-5912 M5 stylus extension kit - 11 mm**



Position	Part number	Description
1	A-5555-0654	M5 EXT L200 d11CF
2	A-5555-0654	M5 EXT L200 d11CF
3	A-5555-0424	M5 EXT L150 d11CF
4	A-5555-0424	M5 EXT L150 d11CF
5	A-5555-0652	M5 EXT L100 d11CF
6	A-5555-0652	M5 EXT L100 d11CF
7	A-5555-0652	M5 EXT L100 d11CF
8	A-5555-0648	M5 EXT L50 d11CF
9	A-5555-0648	M5 EXT L50 d11CF
10	A-5003-6134	M5 ACC D11 EXTENSION TOOL
11	A-5003-6134	M5 ACC D11 EXTENSION TOOL

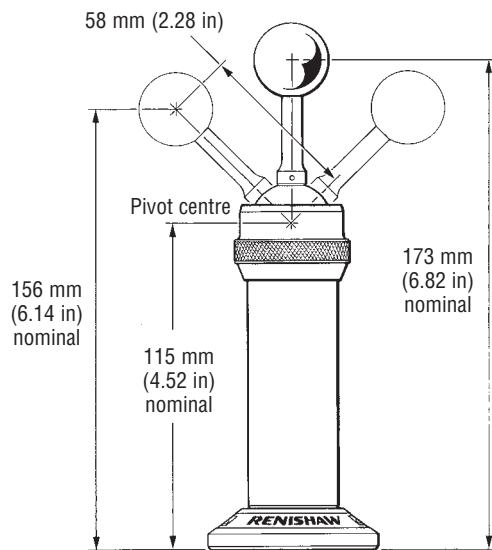
**A-5003-5913 M5 stylus extension kit - 20 mm**



Position	Part number	Description
1	A-5555-0664	M5 EXT L300 d20CF
2	A-5555-0664	M5 EXT L300 d20CF
3	A-5555-0663	M5 EXT L200 d20CF
4	A-5555-0663	M5 EXT L200 d20CF
5	A-5555-0663	M5 EXT L200 d20CF
6	A-5555-0661	M5 EXT L150 d20CF
7	A-5555-0661	M5 EXT L150 d20CF
8	A-5555-0661	M5 EXT L150 d20CF
9	A-5555-0659	M5 EXT L100 d20CF
10	A-5555-0659	M5 EXT L100 d20CF
11	A-5555-0659	M5 EXT L100 d20CF
12	A-5003-6135	M5 ACC D20 EXTENSION TOOL
13	A-5003-6135	M5 ACC D20 EXTENSION TOOL

## Datum balls

Datum spheres are made from hard wearing tungsten carbide and come supplied with individual certificates stating ball diameter and roundness. All sphere measurements are performed on equipment traceable to UK (NPL) standards. Grade 3 sphericity balls are used.



## Datum sphere kit

	Kit part number
Ø12 mm datum ball	A-1034-0028
Ø19 mm datum ball	A-1034-0027
Ø25 mm datum ball	A-1034-0026
Ø3/4 in datum ball	A-1034-0031
Ø1 in datum ball	A-1034-0035

**Fixing stud – a fixing stud is required with each kit to attach pillar to table surface.**

Thread size	Part number
M6 x 1	M-1034-0016
M8 x 1.25	M-1034-0015
M10 x 1.5	M-1034-0014
5/16 - 18 x UNC	M-1034-0018
3/8 - 16 x UNC	M-1034-0017

## Optional extras

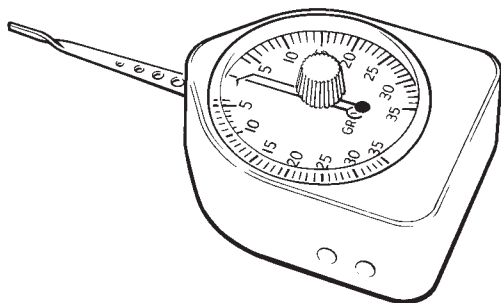
Datum ball	Part number
Ø12 mm datum ball	A-1034-0005
Ø19 mm datum ball	A-1034-0023
Ø25 mm datum ball	A-1034-0002
Ø3/4 in datum ball	A-1034-0032
Ø1 in datum ball	A-1034-0036

Adaptors/extension	Part number
2 way adaptor	M-1034-0042
3 way adaptor	M-1034-0052
Pillar extension 75 mm (2.96 in) long	M-1034-0019

## Gramme gauge

The gramme gauge allows the optimum trigger force to be set to maximise probe performance on all standard Renishaw touch trigger probes.



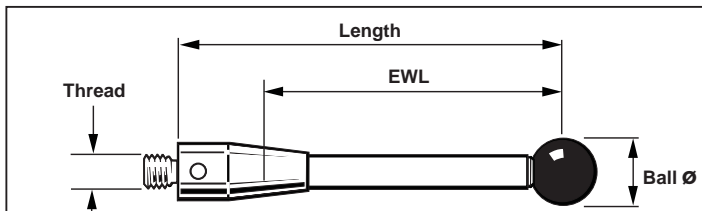
Part number	P-GA01-0001
Overall length	95 mm
Needle length	41 mm
Depth	27 mm
Width	43 mm
Range	4 to 30 gramme range With 1 gramme gradutions



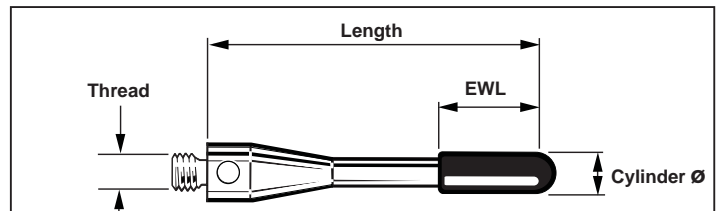
# Custom stylus fax back form

## Fax to: +44 (0)1453 523201

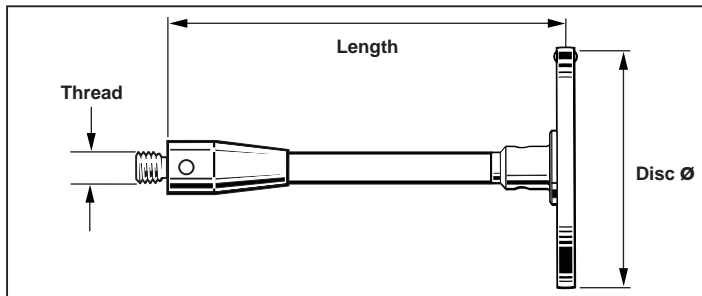
Please fill in your stylus requirements in the space provided and fax back to us. Our design team will carry out a feasibility study and present you with a solution to your application problem.



Thread size	Length	EWL	Ball diameter	Ball material	Stem material	Quantity required



Thread size	Length	EWL	Cylinder diameter	Cylinder material	Quantity required



Thread size	Length	Disc diameter	Disc thickness	Disc material	Disc Roller Y or N?	Quantity required

**Notes**

Probe head: \_\_\_\_\_ Probing orientation: \_\_\_\_\_

Application (what are you measuring?) \_\_\_\_\_

Company name: \_\_\_\_\_ Date: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Contact name: \_\_\_\_\_ Fax: \_\_\_\_\_

Department: \_\_\_\_\_ Email: \_\_\_\_\_



# Product listing by part number



## Styli and accessories

Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-1034-0002	–	DATUM BALL D25	8.16	–	Accessory	25.0	Tungsten carbide	–	–	–	–
A-1034-0005	–	DATUM BALL D12	8.16	–	Accessory	12.0	Tungsten carbide	–	–	–	–
A-1034-0023	–	DATUM BALL D19	8.16	–	Accessory	19.0	Tungsten carbide	–	–	–	–
A-1034-0026	–	DATUM SPHERE KIT D25	8.16	–	Accessory	25.0	Tungsten carbide	–	–	–	–
A-1034-0027	–	DATUM SPHERE KIT D19	8.16	–	Accessory	19.0	Tungsten carbide	–	–	–	–
A-1034-0028	–	DATUM SPHERE KIT D12	8.16	–	Accessory	12.0	Tungsten carbide	–	–	–	–
A-1034-0031	–	DATUM SPHERE KIT D3/4	8.16	–	Accessory	3/4	Tungsten carbide	–	–	–	–
A-1034-0032	–	DATUM BALL D3/4	8.16	–	Accessory	3/4	Tungsten carbide	–	–	–	–
A-1034-0035	–	DATUM SPHERE KIT D1IN	8.16	–	Accessory	1IN	Tungsten carbide	–	–	–	–
A-1034-0036	–	DATUM BALL D1IN	8.16	–	Accessory	1IN	Tungsten carbide	–	–	–	–
A-2008-0382	–	TS27R TDS L23 TIP12.7X8	5.10	M4	Tool datuming	12.7	Tungsten carbide	23.0	Stainless steel	–	12.1
A-2008-0384	–	TS27R TDS L22 TIP19X19X8	5.10	M4	Tool datuming	19.0	Ceramic	22.0	Stainless steel	–	7.1
A-2008-0389	–	TS27R VERTICAL HOLDER KIT	5.10	M4	Tool datuming	–	–	–	Stainless steel	–	5.19
A-2008-0448	–	TS27R HORIZONTAL ADAPTER KIT	5.10	M4	Tool datuming	–	–	–	Stainless steel	–	8.00
A-2048-2050	–	M4 x 23 LG STYLUS ASSY	5.7	M4	Tool datuming	–	–	23.2	Tungsten steel	–	18.14
A-2048-2051	–	M4 x 32 LG STYLUS ASSY	5.7	M4	Tool datuming	–	–	32.0	Tungsten steel	–	20.64
A-2054-4657	SA1	M4-Ø4.5 EXT L10SS	8.2	M4	Extension	–	–	10.0	Stainless steel	–	5.0
A-2116-0140	–	TSA 25 MM STYLUS KIT	5.8	M4	Tool datuming	–	–	32	Tungsten steel	–	13.56
A-2116-0141	–	TSA 32 MM STYLUS KIT	5.8	M4	Tool datuming	–	–	16.05	Tungsten steel	–	16.05
A-2116-0142	–	TSA 40 MM STYLUS KIT	5.9	M4	Tool datuming	–	–	40.0	Tungsten steel	–	22.6
A-2197-0157	–	STYLUS KIT FOR 16 MM TOOLING	5.8	M4	Tool datuming	–	–	14.2	Tungsten steel	–	14.86
A-2197-0158	–	STYLUS KIT FOR 20 MM TOOLING	5.8	M4	Tool datuming	–	–	19.5	Tungsten steel	–	16.0
A-2197-0159	–	STYLUS KIT FOR 25 MM TOOLING	5.8	M4	Tool datuming	–	–	29.5	Tungsten steel	–	20.0
A-2197-0160	–	STYLUS KIT FOR 32 MM TOOLING	5.8	M4	Tool datuming	–	–	34.5	Tungsten steel	–	20.7
A-2197-0161	–	STYLUS KIT FOR 40 MM TOOLING	5.8	M4	Tool datuming	–	–	39.5	Tungsten steel	–	21.8
2197-0162	–	STYLUS KIT FOR 50 MM TOOLING	5.8	M4	Tool datuming	–	–	49.5	Tungsten steel	–	23.5
A-5000-0001	–	M2 KIT COMPREHENSIVE	8.6	–	Accessory	–	–	–	–	–	–
A-5000-0002	–	M2 KIT ENHANCEMENT	8.4	–	Accessory	–	–	–	–	–	–
A-5000-3212	PS1-13	MP4 TDS L53 TIP6X6X6	5.7	M4	Tool datuming	6.0	Tungsten carbide	53.0	Stainless steel	–	4.5
A-5000-3551	PS1-9R	M3 STY D1R L21 EWL4 d0.7SS	4.1	M3	Ball stylus	1.0	Ruby	21.0	Stainless steel	4.0	1.0
A-5000-3552	PS1-10R	M3 STY D2R L21 EWL9.6 d1.4SS	4.1	M3	Ball stylus	2.0	Ruby	21.0	Stainless steel	9.6	1.0
A-5000-3553	PS1-11R	M3 STY D3R L21 EWL14.7 d1.5SS	4.1	M3	Ball stylus	3.0	Ruby	21.0	Stainless steel	14.7	1.0
A-5000-3554	PS1-1R	M3 STY D4R L31 EWL27 d2.5SS	4.1	M3	Ball stylus	4.0	Ruby	31.0	Stainless steel	27.0	2.5
A-5000-3603	PS2R	M2 STY D2R L20 EWL14 d1.4SS	3.1	M2	Ball stylus	2.0	Ruby	20.0	Stainless steel	14.0	0.4
A-5000-3604	PS1R	M2 STY D3R L10 EWL7 d1.5SS	3.1	M2	Ball stylus	3.0	Ruby	10.0	Stainless steel	7.0	0.4
A-5000-3609	–	M2 STC D2R L16.5 EWL12 d1.4SS	3.5	M2	Star centre	2.0	Ruby	16.5	Stainless steel	12.0	0.44
A-5000-3611	PS3R	M2 DSC D6R T1.2 L10 BR-Y2	3.5	M2	Disc	6.0	Ruby	10.0	Stainless steel	1.2	0.6
A-5000-3613	PS4R	M2 DSC D18SLVS T2.2 L2.6 BR-Y3	3.5	M2	Disc	18.0	Silver steel	2.6	Stainless steel	2.2	2.7
A-5000-3614	PS21R	M2 HEM D18CE	3.7	M2	Hemispherical	18.0	Ceramic	11.0	Stainless steel	–	3.3
A-5000-3615	PS1-3R	M3 DSC D12.7SLVS T2 L30.8 BR-N	4.7	M3	Disc	12.7	Silver steel	30.8	Stainless steel	2.0	4.0
A-5000-3626	PS7R	M2 STR D2 5BALL L19.2 S30	3.4	M2	Star	2.0	Ruby	19.2	Stainless steel	12.0	1.8
A-5000-3627	SC2	M2 ACC CENTRE 5WAY	8.1	M2	Accessory	–	–	8.0	Stainless steel	–	0.8
A-5000-3709	PS3-1C	M4 STY D6R L50 EWL38.5 d4.5CE	5.2	M4	Ball stylus	6.0	Ruby	50.0	Ceramic	36.0	4.8
A-5000-3712	PS3-2C	M4 STY D6R L100 EWL88.5 d4.5CE	5.3	M4	Ball stylus	6.0	Ruby	100.0	Ceramic	88.5	6.3
A-5000-4154	PS12R	M2 STY D4R L10 EWL10 d1.5SS	3.1	M2	Ball stylus	4.0	Ruby	10.0	Stainless steel	10.0	0.4
A-5000-4155	PS13R	M2 STY D5R L10 EWL10 d2.5SS	3.1	M2	Ball stylus	5.0	Ruby	10.0	Stainless steel	10.0	0.7
A-5000-4156	PS14R	M2 STY D6R L10 EWL10 d2.5SS	3.1	M2	Ball stylus	6.0	Ruby	10.0	Stainless steel	10.0	0.9
A-5000-4158	PS15R	M2 STY D8R L11 EWL11 d2.5SS	3.1	M2	Ball stylus	8.0	Ruby	11.0	Stainless steel	11.0	1.5
A-5000-4160	PS16R	M2 STY D3R L20 EWL17 d1.5SS	3.1	M2	Ball stylus	3.0	Ruby	20.0	Stainless steel	17.0	0.5
A-5000-4161	PS17R	M2 STY D4R L20 EWL20 d1.5SS	3.1	M2	Ball stylus	4.0	Ruby	20.0	Stainless steel	20.0	0.6
A-5000-4187	PS22R	M2 DSC D25SLVS T3 L2.5 BR-N	3.5	M2	Disc	25.0	Silver steel	2.5	Stainless steel	3.0	3.8
A-5000-5302	–	PS2-1R CRANKED STYLUS	5.8	M4	Cranked stylus	–	Ruby	32.0	Tungsten steel	–	3.8
A-5000-5307	–	PS2-11R CRANKED STYLUS	5.8	M4	Cranked stylus	–	Ruby	21.6	Tungsten steel	–	3.9
A-5000-6350	–	M4 STY D5R L10 EWL5 d3SS	5.1	M4	Ball stylus	5.0	Ruby	10.0	Stainless steel	5.0	1.9
A-5000-6351	–	M4 DSC SD3OSILV T3 L10 BR-N	5.5	M4	–	–	–	10.0	Silver steel	–	7.9
A-5000-6352	PS2-23R	M4 STY D5R L30 EWL26 d3SS	5.1	M4	Ball stylus	5.0	Ruby	30.0	Stainless steel	26.0	3.0
A-5000-6403	PS2-41	M4 TDS L32.5 TIP9.3X9.3X3 LP2	5.7	M4	Tool datuming	9.3	Tungsten carbide	32.5	Stainless steel	–	11.0
A-5000-6462	PS3-5C	M4 STC D6R L100 EWL88.5 d4.5CE	5.5	M4	Star centre	6.0	Ruby	100.0	Ceramic	88.5	7.5
A-5000-6620	–	PS2-2R CRANKED STYLUS	5.8	M4	Cranked stylus	–	Ruby	27.4	Tungsten steel	–	4.7
A-5000-6701	PS1-14	MP4 TDS L43 TIP6X6X6	5.7	M4	Tool datuming	6.0	Tungsten carbide	43.0	Stainless steel	–	4.3

Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5000-6713	PS2-40	M4 TDS L96.5 TIP10x10x5 MP6-3	5.7	M4	Tool datuming	10.0	Tungsten carbide	96.5	Carbon fibre	–	21.9
A-5000-6731	PS2-22R	M4 STY D5R L20 EWL16 d3SS	5.1	M4	Ball stylus	5.0	Ruby	20.0	Stainless steel	15.89	2.4
A-5000-7098	PS3-4C	M4 STC D6R L50 EWL38.5 d4.5CE	5.5	M4	Star centre	6.0	Ruby	50.0	Ceramic	38.5	6.0
A-5000-7521	PS3-1R	M4 STY D5R L50 EWL35 d4.5SS	5.2	M4	Ball stylus	5.0	Ruby	50.0	Stainless steel	33.5	5.8
A-5000-7522	PS3-2R	M4 STY D5R L100 EWL85 d4.5SS	5.3	M4	Ball stylus	5.0	Ruby	100.0	Stainless steel	83.2	11.3
A-5000-7523	–	M4 STY D5R L150 EWL135 d4.5SS	5.3	M4	Ball stylus	5.0	Ruby	150.0	Stainless steel	133.0	17.4
A-5000-7534	SK2	M2 ACC KNUCKLE OFFSET	8.1	M2	Accessory	–	–	8.0	Stainless steel	–	1.6
A-5000-7545	PS2-3R	M4 STY D1R L19.5 EWL4.5 d0.7SS	5.1	M4	Ball stylus	1.0	Ruby	19.5	Stainless steel	4.5	2.5
A-5000-7547	PS2-4R	M4 STY D2R L19 EWL9.2 d1.4SS	5.1	M4	Ball stylus	2.0	Ruby	19.0	Stainless steel	9.2	2.3
A-5000-7549	PS2-5R	M4 STY D3R L18.5 EWL13 d2SS	5.1	M4	Ball stylus	3.0	Ruby	18.5	Stainless steel	13.0	2.0
A-5000-7551	PS2-6R	M4 STY D4R L18 EWL13.7 d3SS	5.1	M4	Ball stylus	4.0	Ruby	18.0	Stainless steel	13.7	2.1
A-5000-7553	PS2-7R	M4 STY D5R L18 EWL13.6 d3.5SS	5.1	M4	Ball stylus	5.0	Ruby	17.5	Stainless steel	13.6	2.3
A-5000-7555	PS2-8R	M4 STY D6R L17 EWL13 d4.5SS	5.1	M4	Ball stylus	6.0	Ruby	17.0	Stainless steel	13.3	3.0
A-5000-7557	PS2-9R	M4 STY D8R L16 EWL16 d6SS	5.1	M4	Ball stylus	8.0	Ruby	16.0	Stainless steel	16.0	3.9
A-5000-7580	–	LP2 CRANK STYLUS	5.8	M4	Cranked stylus	–	Ruby	38.8	Tungsten steel	–	2.5
A-5000-7596	PS2-12R	M4 DSC D30SLVS T2.2 L8.9 BR-Y3	5.5	M4	Disc	30.0	Silver steel	8.9	Stainless steel	2.2	8.01
A-5000-7597	PS2-13R	M4 DSC D35SLVS T2.2 L8.9 BR-Y3	5.5	M4	Disc	35.0	Silver steel	8.9	Stainless steel	2.2	9.57
A-5000-7598	PS2-14R	M4 DSC D50SLVS T3 L8.9 BR-Y4	5.5	M4	Disc	50.0	Silver steel	8.9	Stainless steel	3.0	13.55
A-5000-7606	PS1-12R	M3 STY D4R L21 EWL17.2 d2.5SS	4.1	M3	Ball stylus	4.0	Ruby	21.0	Stainless steel	17.2	1.3
A-5000-7610	SC4	M3 ACC CENTRE 5WAY	8.1	M3	Accessory	–	–	13.0	Stainless steel	–	2.4
A-5000-7612	PS1-5R	M3 DSC D35SLVS T5 L3.5 BR-N	4.7	M3	Disc	35.0	Silver steel	3.5	Stainless steel	5.0	10.0
A-5000-7616	SK3	M3 ACC KNUCKLE OFFSET	8.1	M3	Accessory	–	–	12.0	Stainless steel	–	3.7
A-5000-7629	PS6R	M2 STR D2 5BALL L19.2 S20	3.4	M2	Star	2.0	Ruby	19.2	Stainless steel	12.0	1.3
A-5000-7630	PS1-13R	M3 STY D5R L21 EWL21 d2.5SS	4.1	M3	Ball stylus	5.0	Ruby	21.0	Stainless steel	21.0	1.5
A-5000-7632	PS1-8R	M3 STY D0.5R L21 EWL2 d0.4TC	4.1	M3	Ball stylus	0.5	Ruby	21.0	Tungsten carbide	2.0	1.0
A-5000-7648	PS1-14R	M3 STY D5R L31 EWL31 d3.5SS	4.1	M3	Ball stylus	5.0	Ruby	31.0	Stainless steel	31.0	3.0
A-5000-7669	PS1-15R	M3 DSC D63.5CS T6 L4 BR-N	4.7	M3	Disc	63.5	Carbon steel	4.0	Stainless steel	6.0	45.0
A-5000-7670	–	M4 STY D5T/C L50 EWL35	5.13	M4	Ball stylus	5.0	Tungsten carbide	50.0	Stainless steel	35.0	6.2
A-5000-7671	–	M4 STY D5T/C L100 EWL85	5.13	M4	Ball stylus	5.0	Tungsten carbide	100.0	Stainless steel	85.0	11.9
A-5000-7672	–	M4 STY D5T/C L120 EWL135	5.13	M4	Ball stylus	5.0	Tungsten carbide	150.0	Stainless steel	135.0	18.2
A-5000-7710	–	M4 HEM D5/16AL d8SS	5.12	M4	Hemispherical	5/16	Aluminium	10.5	Stainless steel	–	3.4
A-5000-7711	–	M4 HEM D3/8AL d8SS	5.12	M4	Hemispherical	3/8	Aluminium	10.5	Stainless steel	–	3.8
A-5000-7712	–	M4 HEM D1/2AL d8SS	5.12	M4	Hemispherical	1/2	Aluminium	10.5	Stainless steel	–	4.9
A-5000-7713	–	M4 HEM D5/8AL d8SS	5.12	M4	Hemispherical	5/8	Aluminium	11.5	Stainless steel	–	7.1
A-5000-7714	–	M4 HEM D3/4AL d8SS	5.12	M4	Hemispherical	3/4	Aluminium	11.5	Stainless steel	–	9.9
A-5000-7715	–	M4 HEM D1/16AL d8SS	5.12	M4	Hemispherical	1/16	Aluminium	12.5	Stainless steel	–	19.6
A-5000-7718	–	M4 HEM D8AL d8SS	5.12	M4	Hemispherical	8.0	Aluminium	10.5	Stainless steel	–	3.4
A-5000-7719	–	M4 HEM D10AL d8SS	5.12	M4	Hemispherical	10.0	Aluminium	10.5	Stainless steel	–	3.9
A-5000-7720	–	M4 HEM D12AL d8SS	5.12	M4	Hemispherical	12.0	Aluminium	10.5	Stainless steel	–	4.6
A-5000-7721	–	M4 HEM D16AL d8SS	5.12	M4	Hemispherical	16.0	Aluminium	11.5	Stainless steel	–	7.2
A-5000-7722	–	M4 HEM D20AL d8SS	5.12	M4	Hemispherical	20.0	Aluminium	11.5	Stainless steel	–	10.9
A-5000-7723	–	M4 HEM D25AL d8SS	5.12	M4	Hemispherical	25.0	Aluminium	12.5	Stainless steel	–	18.7
A-5000-7724	–	M4 HEM D32AL d8SS	5.12	M4	Hemispherical	32.0	Aluminium	9.5	Stainless steel	–	19.6
A-5000-7725	–	M4 HEM D38AL d8SS	5.12	M4	Hemispherical	38.0	Aluminium	9.5	Stainless steel	–	28.5
A-5000-7727	SE-30	M4 EXT L100 d7.4CE	5.11	M4	Extension	–	–	100.0	Ceramic	–	10.6
A-5000-7751	SE22	M4-M3 EXT L50CE	8.2	M4	Extension	–	–	50.0	Ceramic	–	4.4
A-5000-7752	SE23	M4-M3 EXT L75CE	8.2	M4	Extension	–	–	75.0	Ceramic	–	5.2
A-5000-7753	SE24	M4-M3 EXT L100CE	8.2	M4	Extension	–	–	100.0	Ceramic	–	6.3
A-5000-7754	SE-19	M4 EXT L30 d7.4CE	5.11	M4	Extension	–	–	30.0	Ceramic	–	5.1
A-5000-7755	SE-20	M4 EXT L50 d7.4CE	5.11	M4	Extension	–	–	50.0	Ceramic	–	6.7
A-5000-7792	SC5	M4 ACC CENTRE 5WAY	8.1	M4	Accessory	–	–	18.0	Stainless steel	–	12.1
A-5000-7795	PS3-6C	M4 STY D8R L50 EWL50 d4.5CE	5.2	M4	Ball stylus	8.0	Ruby	50.0	Ceramic	50.0	5.4
A-5000-7796	PS3-7C	M4 STY D8R L100 EWL100 d4.5CE	5.3	M4	Ball stylus	8.0	Ruby	100.0	Ceramic	100.0	7.0
A-5000-7800	PS29R	M2 STY D0.3R L10 EWL2 d0.2TC	3.1	M2	Ball stylus	0.3	Ruby	10.0	Tungsten carbide	2.0	0.3
A-5000-7801	PS31R	M2 STY D0.7R L10 EWL4 d0.5TC	3.1	M2	Ball stylus	0.7	Ruby	10.0	Tungsten carbide	4.0	0.3
A-5000-7802	PS24R	M2 STY D1.5R L10 EWL4.5 d0.7SS	3.1	M2	Ball stylus	1.5	Ruby	10.0	Stainless steel	4.5	0.3
A-5000-7803	PS26R	M2 STY D2.5R L10 EWL6.5 d1SS	3.1	M2	Ball stylus	2.5	Ruby	10.0	Stainless steel	6.5	0.3
A-5000-7804	PS27R	M2 STY D2.5R L20 EWL16.4 d1.4SS	3.1	M2	Ball stylus	2.5	Ruby	20.0	Stainless steel	16.4	0.4
A-5000-7805	PS10R	M2 STY D0.5R L10 EWL3 d0.4TC	3.1	M2	Ball stylus	0.5	Ruby	10.0	Tungsten carbide	3.0	0.3
A-5000-7806	PS9R	M2 STY D1R L10 EWL4.5 d0.7SS	3.1	M2	Ball stylus	1.0	Ruby	10.0	Stainless steel	4.5	0.3

## Styli and accessories

Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5000-7807	PS8R	M2 STY D2R L10 EWL6 d1SS	3.1	M2	Ball stylus	2.0	Ruby	10.0	Stainless steel	6.0	0.3
A-5000-7808	PS23R	M2 STY D1R L20 EWL7 d0.7TC	3.1	M2	Ball stylus	1.0	Ruby	20.0	Tungsten carbide	7.0	0.50
A-5000-7809	PS33R	M2 DSC D18SLVS T1.5 L8.6 BR-Y2.5	3.5	M2	Disc	18.0	Silver steel	8.6	Stainless steel	1.5	3.0
A-5000-7810	PS34R	M2 DSC D25SLVS T1.5 L8.6 BR-Y2.5	3.5	M2	Disc	25.0	Silver steel	8.6	Stainless steel	1.5	4.0
A-5000-7811	PS28R	M2 STR D1 4BALL L7.5T S10	3.4	M2	Star	1.0	Ruby	7.5	Stainless steel	–	0.5
A-5000-7812	PS35R	M2 SPH D2R L21.2 EWL7.2 SS	3.5	M2	Spherically ended cylinder	2.0	Ruby	21.2	Stainless steel	7.2	0.5
A-5000-7813	PS36R	M2 PNT D1.4TC 30deg L10	3.7	M2	Pointer	1.4	Tungsten carbide	10.0	Stainless steel	–	0.7
A-5000-7814	PS1-16R	M3 HEM D30CE	4.7	M3	Hemispherical	30.0	Ceramic	17.0	Stainless steel	–	18.0
A-5000-7829	-	M4 KIT TP7M USE	8.9	–	Accessory	–	–	–	–	–	–
A-5000-8156	-	M4 STY D6R L150 EWL135 D4.5 5CER	5.3	M4	Ball stylus	6	Ruby	150.0	Ceramic	135.0	7.9
A-5000-8395	SC6	M2 ACC CENTRE 4WAY	8.1	M2	Accessory	–	–	7.5	Stainless steel	–	1.1
A-5000-8663	PS51R	M2 STY D1R L27 EWL27.5 d0.7TC	3.2	M2	Ball stylus	1.0	Ruby	27.5	Tungsten carbide	20.5	0.40
A-5000-8876	PS44R	M2 SPH D1R L15 EWL8	3.5	M2	Spherically ended cylinder	1.0	Ruby	15.0	Stainless steel	8.0	0.3
A-5000-8877	PS45R	M2 SPH D1.5R L15 EWL8	3.5	M2	Spherically ended cylinder	1.5	Ruby	15.0	Stainless steel	8.0	0.3
A-5000-9302	-	M5-Ø8 EXT L22SS	8.2	M5	Extension	–	–	22.0	Stainless steel	–	18.0
A-5000-9303	-	M5-Ø10 EXT L22SS	8.2	M5	Extension	–	–	22.0	Stainless steel	–	20.0
A-5000-9685	-	M4 STY D5T/C L54 EWL50	5.13	M4	Ball stylus	5.0	Tungsten carbide	54.0	Stainless steel	50.0	6.9
A-5000-9697	-	M4 STY D3T/C L55 EWL25	5.13	M4	Ball stylus	3.0	Tungsten carbide	55.0	Stainless steel	25.0	3.8
A-5000-9761	-	M4 STY D5R L100 EWL83.5 d3.8CE	5.3	M4	Ball stylus	5.0	Ruby	100.0	Ceramic	83.5	6.3
A-5000-9860	-		5.14	M1.4		1.0	Tungsten carbide	13.0	Tungsten carbide	1.0	0.22
A-5000-9902	-	M2 ACC KNUCKLE ROTARY	8.1	M2	Accessory	–	–	16.5	Stainless steel	–	1.3
A-5003-0033	PS48R	M2 STY D1R L20 EWL12.5 d0.8TC	3.1	M2	Ball stylus	1.0	Ruby	20.0	Tungsten carbide	12.5	0.41
A-5003-0034	PS49R	M2 STY D1.5R L20 EWL12.5 d1TC	3.1	M2	Ball stylus	1.5	Ruby	20.0	Tungsten carbide	12.5	0.50
A-5003-0035	PS52R	M2 STY D1.5R L30 EWL25 d1TC	3.2	M2	Ball stylus	1.5	Ruby	30.0	Tungsten carbide	25.0	0.58
A-5003-0036	PS53R	M2 STY D2R L30 EWL25 d1.5TC	3.2	M2	Ball stylus	2.0	Ruby	30.0	Tungsten carbide	25.0	0.99
A-5003-0037	PS58R	M2 STY D2R L40 EWL32.5 d1.5TC	3.3	M2	Ball stylus	2.0	Ruby	40.0	Tungsten carbide	32.5	1.29
A-5003-0038	PS54R	M2 STY D2.5R L30 EWL22.5 d2TC	3.2	M2	Ball stylus	2.5	Ruby	30.0	Tungsten carbide	22.5	1.48
A-5003-0039	PS59R	M2 STY D2.5R L40 EWL32.5 d2TC	3.3	M2	Ball stylus	2.5	Ruby	40.0	Tungsten carbide	32.5	1.95
A-5003-0040	PS55R	M2 STY D3R L30 EWL27 d2TC	3.2	M2	Ball stylus	3.0	Ruby	30.0	Tungsten carbide	27.0	1.49
A-5003-0041	PS60R	M2 STY D3R L40 EWL37 d2TC	3.3	M2	Ball stylus	3.0	Ruby	40.0	Tungsten carbide	37.0	1.97
A-5003-0042	PS63R	M2 STY D3R L50 EWL47 d2TC	3.3	M2	Ball stylus	3.0	Ruby	50.0	Tungsten carbide	47.0	2.44
A-5003-0043	PS56R	M2 STY D4R L30 EWL30 d2TC	3.2	M2	Ball stylus	4.0	Ruby	30.0	Tungsten carbide	30.0	1.57
A-5003-0044	PS61R	M2 STY D4R L40 EWL40 d2TC	3.3	M2	Ball stylus	4.0	Ruby	40.0	Tungsten carbide	40.0	2.04
A-5003-0045	PS64R	M2 STY D4R L50 EWL50 d2TC	3.3	M2	Ball stylus	4.0	Ruby	50.0	Tungsten carbide	50.0	2.52
A-5003-0046	PS50R	M2 STY D5R L20 EWL20 d2.5TC	3.2	M2	Ball stylus	5.0	Ruby	20.0	Tungsten carbide	20.0	1.98
A-5003-0047	PS57R	M2 STY D5R L30 EWL30 d2.5TC	3.2	M2	Ball stylus	5.0	Ruby	30.0	Tungsten carbide	30.0	2.57
A-5003-0048	PS62R	M2 STY D5R L40 EWL40 d2.5TC	3.3	M2	Ball stylus	5.0	Ruby	40.0	Tungsten carbide	40.0	3.17
A-5003-0049	PS65R	M2 STY D5R L50 EWL50 d2.5TC	3.3	M2	Ball stylus	5.0	Ruby	50.0	Tungsten carbide	50.0	3.75
A-5003-0050	PS1-17R	M3 STY D1.5R L20 EWL12.5 d1TC	4.1	M3	Ball stylus	1.5	Ruby	20.0	Tungsten carbide	12.5	0.8
A-5003-0051	PS1-19R	M3 STY D1.5R L30 EWL22.5 d1TC	4.1	M3	Ball stylus	1.5	Ruby	30.0	Tungsten carbide	22.5	0.93
A-5003-0052	PS1-20R	M3 STY D2R L30 EWL22.8 d1.5TC	4.1	M3	Ball stylus	2.0	Ruby	30.0	Tungsten carbide	22.5	1.32
A-5003-0053	PS1-23R	M3 STY D2R L40 EWL32.5 d1.5TC	4.2	M3	Ball stylus	2.0	Ruby	40.0	Tungsten carbide	32.5	1.58
A-5003-0054	PS1-18R	M3 STY D2.5R L20.2 EWL12.5 d2TC	4.1	M3	Ball stylus	2.5	Ruby	20.2	Tungsten carbide	12.5	1.3
A-5003-0055	PS1-21R	M3 STY D2.5R L30 EWL22.5 d2TC	4.1	M3	Ball stylus	2.5	Ruby	30.0	Tungsten carbide	22.8	1.81
A-5003-0056	PS1-24R	M3 STY D2.5R L40 EWL32.5 d2TC	4.2	M3	Ball stylus	2.5	Ruby	40.0	Tungsten carbide	32.5	2.28
A-5003-0057	PS1-22R	M3 STY D3R L30 EWL24 d2TC	4.1	M3	Ball stylus	3.0	Ruby	30.0	Tungsten carbide	24.0	1.83
A-5003-0058	PS1-25R	M3 STY D3R L40 EWL35.7 d2TC	4.2	M3	Ball stylus	3.0	Ruby	40.0	Tungsten carbide	33.7	2.30
A-5003-0059	PS1-28R	M3 STY D3R L50 EWL45.7 d2TC	4.2	M3	Ball stylus	3.0	Ruby	50.0	Tungsten carbide	43.7	2.78
A-5003-0060	PS1-26R	M3 STY D4R L40 EWL36 d2TC	4.2	M3	Ball stylus	4.0	Ruby	40.0	Tungsten carbide	36.0	2.38
A-5003-0061	PS1-29R	M3 STY D4R L50 EWL46 d2TC	4.2	M3	Ball stylus	4.0	Ruby	50.0	Tungsten carbide	46.0	2.85
A-5003-0062	PS1-27R	M3 STY D5R L40 EWL40 d2.5TC	4.2	M3	Ball stylus	5.0	Ruby	40.0	Tungsten carbide	40.0	3.50
A-5003-0063	PS1-30R	M3 STY D5R L50 EWL50 d2.5TC	4.2	M3	Ball stylus	5.0	Ruby	50.0	Tungsten carbide	50.0	4.10
A-5003-0064	PS66R	M2 STY D3R L50 EWL47 d2CE	3.3	M2	Ball stylus	3.0	Ruby	50.0	Ceramic	47.0	0.83
A-5003-0065	PS67R	M2 STY D4R L50 EWL46 d2CE	3.3	M2	Ball stylus	4.0	Ruby	50.0	Ceramic	50.0	0.91
A-5003-0066	PS68R	M2 STY D5R L50 EWL50 d2.5CE	3.3	M2	Ball stylus	5.0	Ruby	50.0	Ceramic	50.0	1.31
A-5003-0067	PS1-31R	M3 STY D3R L50 EWL43.7 d2CE	4.2	M3	Ball stylus	3.0	Ruby	50.0	Ceramic	43.7	1.17
A-5003-0068	PS1-32R	M3 STY D4R L50 EWL46 d2CE	4.2	M3	Ball stylus	4.0	Ruby	50.0	Ceramic	46.0	1.24
A-5003-0069	PS1-33R	M3 STY D5R L50 EWL50 d2.5CE	4.2	M3	Ball stylus	5.0	Ruby	50.0	Ceramic	50.0	1.33
A-5003-0070	SE26	M2 EXT L30 d3CE	3.6	M2	Extension	–	–	30.0	Ceramic	–	0.97
A-5003-0071	SE27	M2 EXT L40 d3CE	3.6	M2	Extension	–	–	40.0	Ceramic	–	1.22



Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5003-0072	SE28	M2 EXT L50 d3CE	3.6	M2	Extension	–	–	50.0	Ceramic	–	1.51
A-5003-0073	PS69R	M2 SPH D4R L22 EWL10SS	3.5	M2	Spherically ended cylinder	4.0	Ruby	22.0	Stainless steel	10.0	0.9
A-5003-0074	PS70R	M2 SPH D2TC L40 EWL32	3.6	M2	Spherically ended cylinder	2.0	Tungsten carbide	40.0	Stainless steel	32.0	2.0
A-5003-0075	SE29	M3 EXT L50 d4CE	4.6	M3	Extension	–	–	50.0	Ceramic	–	2.95
A-5003-0076	PS1-34R	M3 STR D2 5BALL L21.5 S30	4.7	M3	Star	2.0	Ruby	21.5	Stainless steel	11.0	2.38
A-5003-0077	PS1-35R	M3 STR D2 5BALL L31.5 S50	4.7	M3	Star	2.0	Ruby	31.5	Stainless steel	11.0	5.25
A-5003-0233	–	M4 STY D4R L50 EWL33.5 d3.8CE	5.2	M4	Ball stylus	4.0	Ruby	50.0	Ceramic	33.5	3.9
A-5003-0235	–	M4 STY D5R L50 EWL33.5 d3.9CE	5.2	M4	Ball stylus	5.0	Ruby	50.0	Ceramic	33.5	5.0
A-5003-0236	–	M4 STY D5R L75 EWL59 d3.8CE	5.2	M4	Ball stylus	5.0	Ruby	75.0	Ceramic	58.5	5.63
A-5003-0470	–	M2 STY D6R L50 EWL50 d2.5CE	3.3	M2	Ball stylus	6.0	Ruby	50.0	Ceramic	50.0	1.49
A-5003-0577	–	M2 STY D0.7R L20 EWL12 d0.5TC	3.1	M2	Ball stylus	0.7	Ruby	20.0	Tungsten carbide	12.0	0.32
A-5003-0587	–	M4 EXT L200 d7.4CE	5.11	M4	Extension	–	–	200.0	Ceramic	–	18.4
A-5003-0661	–	M4 STY BREAK STEM L15 d2.5	5.6	M4	Crash protection device	–	–	15.2	Silver steel	–	4.6
A-5003-0858	–	M5-M2 EXT L10SS	9.2	M5	Extension	–	–	10.0	Stainless steel	–	5.0
A-5003-0938	–	M2 STY D3R L20 EWL17 d1.5TC	3.2	M2	Ball stylus	3.0	Ruby	20.0	Tungsten carbide	17.0	0.77
A-5003-1029	–	M2 STY D4R L22 EWL22 d2TC	3.2	M2	Ball stylus	4.0	Ruby	22.0	Tungsten carbide	22.0	1.24
A-5003-1075	–	M4 STY D6R L200 EWL188.5 d4.5CF	5.3	M4	Ball stylus	6.0	Ruby	200.0	Carbon fibre	188.5	8.7
A-5003-1208	–	M2 SPH D0.3TC L10.2 EWL2.7	3.6	M2	Spherically ended cylinder	0.3	Tungsten carbide	10.2	Stainless steel	2.7	0.3
A-5003-1210	–	M2 SPH D0.5TC L15.3 EWL7.8	3.6	M2	Spherically ended cylinder	0.5	Tungsten carbide	15.3	Stainless steel	7.8	0.3
A-5003-1218	–	M2 SPH D1TC L35.5 EWL28	3.6	M2	Spherically ended cylinder	1.0	Tungsten carbide	35.5	Stainless steel	28.0	0.7
A-5003-1219	–	M2 SPH D1.5TC L15.8 EWL8.3	3.6	M2	Spherically ended cylinder	1.5	Tungsten carbide	15.8	Stainless steel	8.3	0.6
A-5003-1228	–	M2 SPH D2TC L16 EWL8.5	3.6	M2	Spherically ended cylinder	2.0	Tungsten carbide	16.0	Stainless steel	8.5	0.8
A-5003-1255	–	M4 STY D6R L150 EWL138.5 d4.4CF	5.3	M4	Ball stylus	6.0	Ruby	150.0	Carbon fibre	138.5	7.5
A-5003-1258	–	M2 SPH D3TC L22.5 EWL22.5	3.6	M2	Spherically ended cylinder	3.0	Tungsten carbide	22.5	Stainless steel	22.5	2.0
A-5003-1325	–	M2 STY D1R L10 EWL4 d0.7TC	3.1	M2	Ball stylus	1.0	Ruby	10.0	Tungsten carbide	4.0	0.3
A-5003-1345	–	M2 STY D0.5R L20 EWL7 d0.3TC	3.1	M2	Ball stylus	0.5	Ruby	20.0	Tungsten carbide	7.0	0.48
A-5003-1358	–	M4 STY D6R L100 EWL88.5 d4.4CF	5.3	M4	Ball stylus	6.0	Ruby	100.0	Carbon fibre	88.5	6.2
A-5003-1370	–	M2 STY D4R L30 EWL30 d2CE	3.2	M2	Ball stylus	4.0	Ruby	30.0	Ceramic	30.0	0.68
A-5003-1436	–	M4 STY D6R L50 EWL38.5 d4.4CF	5.2	M4	Ball stylus	6.0	Ruby	50.0	Carbon fibre	38.5	4.1
A-5003-1699	–	–	5.14	M1.4	–	0.6	Tungsten carbide	12.75	Stainless steel	1.0	0.41
A-5003-1730	PS2R	M2 STY D2R L20 EWL14 d1.4SS	3.1	M2	Ball stylus	2.0	Silicon nitride	20.0	Stainless steel	14.0	0.4
A-5003-1896	–	M2 STY D2.5R L20 EWL15.5 d1TC	3.2	M2	Ball stylus	2.5	Ruby	20.0	Tungsten carbide	15.5	0.5
A-5003-1930	PS50R	M2 STY D5R L20 EWL20 d2.5TC	3.2	M2	Ball stylus	5.0	Silicon nitride	20.0	Tungsten carbide	20.0	1.98
A-5003-1959	PS59R	M2 STY D2.5R L40 EWL32.5 d2TC	3.3	M2	Ball stylus	2.5	Silicon nitride	40.0	Tungsten carbide	32.5	1.95
A-5003-2020	PS10R	M2 STY D0.5R L10 EWL3 d0.4TC	3.1	M2	Ball stylus	0.5	Silicon nitride	10.0	Tungsten carbide	3.0	0.3
A-5003-2138	PS1R	M2 STY D3R L10 EWL7 d1.5SS	3.1	M2	Ball stylus	3.0	Silicon nitride	10.0	Stainless steel	7.0	0.4
A-5003-2280	–	M2 EXT L40 d3CF	3.7	M2	Extension	–	–	40.0	Carbon fibre	–	0.9
A-5003-2281	–	M2 EXT L50 d3CF	3.7	M2	Extension	–	–	50.0	Carbon fibre	–	1.0
A-5003-2282	–	M2 EXT L70 d3CF	3.7	M2	Extension	–	–	70.0	Carbon fibre	–	1.3
A-5003-2283	–	M2 EXT L90 d3CF	3.7	M2	Extension	–	–	90.0	Carbon fibre	–	1.5
A-5003-2285	–	M2 STY D4R L50 EWL50 d3CF	3.3	M2	Ball stylus	4.0	Ruby	50.0	Carbon fibre	50.0	1.0
A-5003-2286	–	M2 STY D5R L50 EWL50 d3CF	3.3	M2	Ball stylus	5.0	Ruby	50.0	Carbon fibre	50.0	1.1
A-5003-2287	–	M2 STY D6R L50 EWL50 d3CF	3.3	M2	Ball stylus	6.0	Ruby	50.0	Carbon fibre	50.0	1.2
A-5003-2289	–	M2 STY D4R L100 EWL100 d3CF	3.4	M2	Ball stylus	4.0	Ruby	100.0	Carbon fibre	100.0	1.50
A-5003-2290	–	M2 STY D5R L100 EWL100 d3CF	3.4	M2	Ball stylus	5.0	Ruby	100.0	Carbon fibre	100.0	1.59
A-5003-2291	–	M2 STY D6R L100 EWL100 d3CF	3.4	M2	Ball stylus	6.0	Ruby	100.0	Carbon fibre	100.0	1.78
A-5003-2300	–	M2 STYLUS TOOL CF RANGE	8.3	–	Accessory	–	–	–	–	–	–
A-5003-2310	–	M2 KIT HIGH PERFORMANCE	8.5	–	Accessory	–	–	–	–	–	–
A-5003-2764	–	M4 STY D6R L75 EWL63.5 d4.4CE	5.2	M4	Ball stylus	6.0	Ruby	75.0	Ceramic	63.5	5.64
A-5003-2932	–	M4 STY D2R L20 EWL10 d1.5TC	5.1	M4	Ball stylus	2.0	Ruby	20.0	Tungsten carbide	10.0	3.01
A-5003-3042	–	STY M1.4.D.5 BALL L12.5,EWL3	5.14	M1.4	Ball stylus	0.5	Ruby	12.5	Tungsten carbide	3.0	1.19
A-5003-3045	–	STYLUS M1.4 DIA 1 BALL L25	5.14	M1.4	Ball stylus	1.0	Tungsten carbide	25	Stainless steel	1.5	1.1
A-5003-3461	–	M4 STY D8R L300 EWL300 d4.5CF	5.3	M4	Ball Stylus	8.0	Ruby	300.0	Carbon Fibre	300.0	10.4
A-5003-3680	–	M4 STY D3R L50 EWL38.5 d2TC	5.2	M4	Ball stylus	3.0	Ruby	50.0	Tungsten carbide	38.5	4.94
A-5003-3822	–	M2 STY D2R L20 EWL14 d1TC	3.2	M2	Ball stylus	2.0	Ruby	20.0	Tungsten carbide	14.0	0.48
A-5003-3814	–	STY M1.4 D.5 CARB L12.5 EWL1.5	5.14	M1.4	Ball stylus	0.5	Tungsten carbide	12.5	Tungsten carbide	1.5	0.2
A-5003-4011	–	M2 STR D0.5 4BALL L7.5 S10	3.4	M2	Star	0.5	Ruby	7.5	Stainless steel	–	0.7
A-5003-4177	–	M2 STY D3R L30 EWL27 d2CE	3.2	M2	Ball stylus	3.0	Ruby	30.0	Ceramic	27.0	0.44
A-5003-4241	–	M2 STY D4R L30 EWL30 d2CF	3.2	M2	Ball stylus	4.0	Ruby	30.0	Carbon fibre	30.0	0.57
A-5003-4686	–	M3 ACC KNUCKLE ROTARY	8.1	M3	Accessory	–	–	17.0	Stainless steel	–	1.5

## Styli and accessories

Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5003-4689	–	M4 ACC KNUCKLE ROTARY	8.1	M4	Accessory	–	–	33.0	Stainless steel	–	9.8
A-5003-4697	–	M2 ACC KNUCKLE	8.1	M2	Accessory	–	–	13.5	Stainless steel	–	1.1
A-5003-4779	–	M2 STY D5R L30 EWL30 d2.5CE	3.2	M2	Ball stylus	5.0	Ruby	30.0	Ceramic	30.0	0.93
A-5003-4780	–	M2 STY D6R L30 EWL30 d2.5CE	3.2	M2	Ball stylus	6.0	Ruby	30.0	Ceramic	30.0	1.11
A-5003-4781	–	M2 STY D5R L30 EWL30 d3CF	3.2	M2	Ball stylus	5.0	Ruby	30.0	Carbon fibre	30.0	0.79
A-5003-4782	–	M2 STY D6R L30 EWL30 d3CF	3.2	M2	Ball stylus	6.0	Ruby	30.0	Carbon fibre	30.0	0.96
A-5003-4784	–	M2 STY D4R L75 EWL75 d3CF	3.4	M2	Ball stylus	4.0	Ruby	75.0	Carbon fibre	75.0	0.78
A-5003-4785	–	M2 STY D5R L75 EWL75 d3CF	3.4	M2	Ball stylus	5.0	Ruby	75.0	Carbon fibre	75.0	1.27
A-5003-4786	–	M2 STY D6R L75 EWL75 d3CF	3.4	M2	Ball stylus	6.0	Ruby	75.0	Carbon fibre	75.0	1.45
A-5003-4787	–	M2 STR D0.5 4BALL L7.5 S20	3.4	M2	Star	0.5	Ruby	7.5	Stainless steel	–	0.7
A-5003-4788	–	M2 STR D1 4BALL L7.5 S20	3.4	M2	Star	1.0	Ruby	7.5	Stainless steel	–	0.9
A-5003-4789	–	M2 STC D1R L8.5 EWL3.5 d0.7TC	3.5	M2	Star centre	1.0	Ruby	8.5	Tungsten carbide	3.5	0.31
A-5003-4790	–	M2 STC D0.5R L18.5 EWL7 d0.4TC	3.5	M2	Star centre	0.5	Ruby	18.5	Tungsten carbide	7.0	0.43
A-5003-4791	–	M2 STC D1R L18.5 EWL11 d0.7TC	3.5	M2	Star centre	1.0	Ruby	18.5	Tungsten carbide	4.0	0.45
A-5003-4792	–	M4 STY D1R L20 EWL10 d0.7TC	5.1	M4	Ball stylus	1.0	Ruby	20.0	Tungsten carbide	10.0	2.39
A-5003-4793	–	M4 STY D3R L20 EWL8.5 d2TC	5.1	M4	Ball stylus	3.0	Ruby	20.0	Tungsten carbide	8.5	3.53
A-5003-4794	–	M4 STY D4R L20 EWL8.5 d2TC	5.1	M4	Ball stylus	4.0	Ruby	20.0	Tungsten carbide	8.5	3.53
A-5003-4795	–	M4 STY D5R L20 EWL7.9 d2.5TC	5.1	M4	Ball stylus	5.0	Ruby	20.0	Tungsten carbide	7.9	4.52
A-5003-4796	–	M4 STY D6R L20 EWL10.7 d2.5TC	5.1	M4	Ball stylus	6.0	Ruby	20.0	Tungsten carbide	10.7	4.66
A-5003-4797	–	M4 STY D2R L50 EWL40 d1.5TC	5.2	M4	Ball stylus	2.0	Ruby	50.0	Tungsten carbide	40.0	3.80
A-5003-4799	–	M4 STY D4R L50 EWL38.5 d2.5TC	5.2	M4	Ball stylus	4.0	Ruby	50.0	Tungsten carbide	38.5	4.99
A-5003-4800	–	M4 STY D5R L50 EWL40.7 d2.5TC	5.2	M4	Ball stylus	5.0	Ruby	50.0	Tungsten carbide	37.9	6.72
A-5003-4801	–	M4 STY D6R L50 EWL40.7 d2.5TC	5.2	M4	Ball stylus	6.0	Ruby	50.0	Tungsten carbide	40.7	6.86
A-5003-4802	–	M4 STY D8R L75 EWL75 d4.5CE	5.2	M4	Ball stylus	8.0	Ruby	75.0	Ceramic	75.0	6.20
A-5003-4860	–	M3 STY D6R L75 EWL75 d4CF	4.3	M3	Ball stylus	6.0	Ruby	75.0	Carbon fibre	75.0	2.40
A-5003-4861	–	M3 STY D6R L100 EWL100 d4CF	4.3	M3	Ball stylus	6.0	Ruby	100.0	Carbon fibre	100.0	2.89
A-5003-4862	–	M3 STY D8R L75 EWL75 d4CF	4.3	M3	Ball stylus	8.0	Ruby	75.0	Carbon fibre	75.0	2.98
A-5003-4863	–	M3 STY D8R L100 EWL100 d4CF	4.3	M3	Ball stylus	8.0	Ruby	100.0	Carbon fibre	100.0	3.47
A-5003-4864	–	M3 EXT L75 d4CF	4.6	M3	Extension	–	–	75.0	Carbon fibre	–	2.53
A-5003-4865	–	M3 EXT L100 d4CF	4.6	M3	Extension	–	–	100.0	Carbon fibre	–	3.02
A-5003-5061	–	M3 STY D4SN L21 EWL17.2 d2.5SS	4.1	M3	Ball stylus	4.0	Silicon nitride	21.0	Stainless steel	17.2	1.28
A-5003-5201	–	M5 STY D0.3R L20 EWL3 d0.2TC	6.1	M5	Ball stylus	0.3	Ruby	20.0	Tungsten carbide	3.0	6.5
A-5003-5202	–	M5 STY D0.5R L20 EWL4 d0.4TC	6.1	M5	Ball stylus	0.5	Ruby	20.0	Tungsten carbide	4.0	6.5
A-5003-5203	–	M5 STY D0.7R L20 EWL5 d0.5TC	6.1	M5	Ball stylus	0.7	Ruby	20.0	Tungsten carbide	5.0	6.5
A-5003-5204	–	M5 STY D1R L20 EWL5 d0.7TC	6.2	M5	Ball stylus	1.0	Ruby	20.0	Tungsten carbide	5.0	6.52
A-5003-5205	–	M5 STY D1.5R L20 EWL11 d1TC	6.2	M5	Ball stylus	1.5	Ruby	20.0	Tungsten carbide	11.0	4.68
A-5003-5206	–	M5 STY D2R L20 EWL11 d1TC	6.2	M5	Ball stylus	2.0	Ruby	20.0	Tungsten carbide	11.0	4.70
A-5003-5207	–	M5 STY D2.5R L20 EWL11 d1.5TC	6.2	M5	Ball stylus	2.5	Ruby	20.0	Tungsten carbide	11.0	4.84
A-5003-5208	–	M5 STY D3R L20 EWL11 d2TC	6.2	M5	Ball stylus	3.0	Ruby	20.0	Tungsten carbide	11.0	5.12
A-5003-5209	–	M5 STY D4R L20 EWL11.9 d2TC	6.2	M5	Ball stylus	4.0	Ruby	20.0	Tungsten carbide	11.9	5.19
A-5003-5210	–	M5 STY D5R L20 EWL11.5 d3TC	6.2	M5	Ball stylus	5.0	Ruby	20.0	Tungsten carbide	11.5	6.06
A-5003-5211	–	M5 STY D0.3R L30 EWL3 d0.2TC	6.1	M5	Ball stylus	0.3	Ruby	30.0	Tungsten carbide	3.0	8.95
A-5003-5212	–	M5 STY D0.5R L30 EWL4 d0.4TC	6.1	M5	Ball stylus	0.5	Ruby	30.0	Tungsten carbide	4.0	8.95
A-5003-5213	–	M5 STY D0.7R L30 EWL5 d0.5TC	6.1	M5	Ball stylus	0.7	Ruby	30.0	Tungsten carbide	5.0	8.98
A-5003-5214	–	M5 STY D1R L30 EWL5 d0.7TC	6.2	M5	Ball stylus	1.0	Ruby	30.0	Tungsten carbide	5.0	9.01
A-5003-5215	–	M5 STY D1.5R L30 EWL12 d1TC	6.2	M5	Ball stylus	1.5	Ruby	30.0	Tungsten carbide	12.0	7.28
A-5003-5216	–	M5 STY D2R L30 EWL21 d1TC	6.2	M5	Ball stylus	2.0	Ruby	30.0	Tungsten carbide	21.0	4.81
A-5003-5217	–	M5 STY D2.5R L30 EWL21 d1.5TC	6.2	M5	Ball stylus	2.5	Ruby	30.0	Tungsten carbide	21.0	5.14
A-5003-5218	–	M5 STY D3R L30 EWL21 d2TC	6.2	M5	Ball stylus	3.0	Ruby	30.0	Tungsten carbide	21.0	5.58
A-5003-5219	–	M5 STY D4R L30 EWL21.9 d2TC	6.2	M5	Ball stylus	4.0	Ruby	30.0	Tungsten carbide	21.9	5.64
A-5003-5220	–	M5 STY D5R L30 EWL21.5 d3TC	6.2	M5	Ball stylus	5.0	Ruby	30.0	Tungsten carbide	21.5	7.10
A-5003-5221	–	M5 STY D1.5R L40 EWL22 d1TC	6.2	M5	Ball stylus	1.5	Ruby	40.0	Tungsten carbide	22.0	7.39
A-5003-5222	–	M5 STY D2R L40 EWL31 d1TC	6.2	M5	Ball stylus	2.0	Ruby	40.0	Tungsten carbide	31.0	4.93
A-5003-5223	–	M5 STY D2.5R L40 EWL31 d1.5TC	6.2	M5	Ball stylus	2.5	Ruby	40.0	Tungsten carbide	31.0	5.40
A-5003-5224	–	M5 STY D3R L40 EWL31 d2TC	6.2	M5	Ball stylus	3.0	Ruby	40.0	Tungsten carbide	31.0	6.04
A-5003-5225	–	M5 STY D0.3R L50 EWL3 d0.2TC	6.1	M5	Ball stylus	0.3	Ruby	50.0	Tungsten carbide	3.0	15.79
A-5003-5226	–	M5 STY D0.5R L50 EWL4 d0.4TC	6.1	M5	Ball stylus	0.5	Ruby	50.0	Tungsten carbide	4.0	15.79
A-5003-5227	–	M5 STY D0.7R L50 EWL5 d0.5TC	6.1	M5	Ball stylus	0.7	Ruby	50.0	Tungsten carbide	5.0	15.79
A-5003-5228	–	M5 STY D1R L50 EWL5 d0.7TC	6.3	M5	Ball stylus	1.0	Ruby	50.0	Tungsten carbide	5.0	15.81
A-5003-5229	–	M5 STY D1.5R L50 EWL5 d1TC	6.3	M5	Ball stylus	1.5	Ruby	50.0	Tungsten carbide	5.0	14.82



Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5003-5230	–	M5 STY D2R L50 EWL41 d1TC	6.3	M5	Ball stylus	2.0	Ruby	50.0	Tungsten carbide	41.0	5.05
A-5003-5231	–	M5 STY D2R L50 EWL5 d1TC	6.3	M5	Ball stylus	2.0	Ruby	50.0	Tungsten carbide	5.0	14.85
A-5003-5232	–	M5 STY D2.5R L50 EWL41 d2TC	6.3	M5	Ball stylus	2.5	Ruby	50.0	Tungsten carbide	41.0	6.48
A-5003-5233	–	M5 STY D2.5R L50 EWL5 d1.5TC	6.3	M5	Ball stylus	2.5	Ruby	50.0	Tungsten carbide	5.0	14.94
A-5003-5234	–	M5 STY D3R L50 EWL41 d2TC	6.3	M5	Ball stylus	3.0	Ruby	50.0	Tungsten carbide	41.0	6.50
A-5003-5235	–	M5 STY D4R L50 EWL41.9 d2TC	6.3	M5	Ball stylus	4.0	Ruby	50.0	Tungsten carbide	41.9	6.50
A-5003-5236	–	M5 STY D5R L50 EWL41.5 d3TC	6.3	M5	Ball stylus	5.0	Ruby	50.0	Tungsten carbide	41.5	9.19
A-5003-5237	–	M5 STY D6R L50 EWL39.5 d4CF	6.3	M5	Ball stylus	6.0	Ruby	50.0	Carbon fibre	39.5	6.10
A-5003-5238	–	M5 STY D8R L50 EWL39.5 d6CF	6.3	M5	Ball stylus	8.0	Ruby	50.0	Carbon fibre	39.5	7.96
A-5003-5239	–	M5 STY D10R L50 EWL44.5 d6CF	6.3	M5	Ball stylus	10.0	Ruby	50.0	Carbon fibre	44.5	8.91
A-5003-5240	–	M5 STY D0.3R L75 EWL3 d0.2TC	6.1	M5	Ball stylus	0.3	Ruby	75.0	Tungsten carbide	3.0	23.84
A-5003-5241	–	M5 STY D0.5R L75 EWL4 d0.4TC	6.1	M5	Ball stylus	0.5	Ruby	75.0	Tungsten carbide	4.0	23.84
A-5003-5242	–	M5 STY D0.7R L75 EWL5 d0.5TC	6.1	M5	Ball stylus	0.7	Ruby	75.0	Tungsten carbide	5.0	23.84
A-5003-5243	–	M5 STY D1R L75 EWL5 d0.7TC	6.4	M5	Ball stylus	1.0	Ruby	75.0	Tungsten carbide	5.0	23.86
A-5003-5244	–	M5 STY D1.5R L75 EWL5 d1TC	6.4	M5	Ball stylus	1.5	Ruby	75.0	Tungsten carbide	5.0	23.90
A-5003-5248	–	M5 STY D4R L75 EWL66 d3TC	6.4	M5	Ball stylus	4.0	Ruby	75.0	Tungsten carbide	66.0	11.61
A-5003-5249	–	M5 STY D5R L75 EWL66 d3TC	6.4	M5	Ball stylus	5.0	Ruby	75.0	Tungsten carbide	66.0	11.80
A-5003-5250	–	M5 STY D6R L75 EWL65.1 d4CF	6.4	M5	Ball stylus	6.0	Ruby	75.0	Carbon fibre	65.1	6.59
A-5003-5251	–	M5 STY D8R L75 EWL64.5 d6CF	6.4	M5	Ball stylus	8.0	Ruby	75.0	Carbon fibre	64.5	9.06
A-5003-5252	–	M5 STY D10R L75 EWL69.5 d6CF	6.4	M5	Ball stylus	10.0	Ruby	75.0	Carbon fibre	69.5	10.01
A-5003-5253	–	M5 STY D3R L100 EWL20 d2TC	6.5	M5	Ball stylus	3.0	Ruby	100.0	Tungsten carbide	20.0	25.71
A-5003-5254	–	M5 STY D3R L100 EWL55 d1.5TC	6.6	M5	Ball stylus	3.0	Ruby	100.0	Tungsten carbide	55.0	16.30
A-5003-5255	–	M5 STY D4R L100 EWL30.5 d2TC	6.5	M5	Ball stylus	4.0	Ruby	100.0	Tungsten carbide	30.5	24.80
A-5003-5256	–	M5 STY D4R L100 EWL50 d3TC	6.5	M5	Ball stylus	4.0	Ruby	100.0	Tungsten carbide	50.0	18.00
A-5003-5257	–	M5 STY D5R L100 EWL50 d3TC	6.5	M5	Ball stylus	5.0	Ruby	100.0	Tungsten carbide	50.0	25.75
A-5003-5258	–	M5 STY D5R L100 EWL91 d3TC	6.6	M5	Ball stylus	5.0	Ruby	100.0	Tungsten carbide	91.0	23.07
A-5003-5259	–	M5 STY D6R L100 EWL58.9 d4CF	6.5	M5	Ball stylus	6.0	Ruby	100.0	Carbon fibre	58.9	23.31
A-5003-5260	–	M5 STY D6R L100 EWL90.1 d4CF	6.6	M5	Ball stylus	6.0	Ruby	100.0	Carbon fibre	90.1	7.08
A-5003-5261	–	M5 STY D8R L100 EWL50 d6CF	6.5	M5	Ball stylus	8.0	Ruby	100.0	Carbon fibre	50.0	22.97
A-5003-5262	–	M5 STY D8R L100 EWL89.5 d6CF	6.6	M5	Ball stylus	8.0	Ruby	100.0	Carbon fibre	89.5	10.17
A-5003-5263	–	M5 STY D10R L100 EWL95.5 d6CF	6.5	M5	Ball stylus	10.0	Ruby	100.0	Carbon fibre	95.5	23.91
A-5003-5264	–	M5 STY D10R L100 EWL94.5 d6CF	6.6	M5	Ball stylus	10.0	Ruby	100.0	Carbon fibre	94.5	11.11
A-5003-5265	–	M5 STY D6R L150 EWL157 d4CF	6.7	M5	Ball stylus	6.0	Ruby	150.0	Carbon fibre	137.0	9.09
A-5003-5266	–	M5 STY D8R L150 EWL135 d6CF	6.7	M5	Ball stylus	8.0	Ruby	150.0	Carbon fibre	135.0	13.71
A-5003-5267	–	M5 STY D10R L150 EWL144.5 d6CF	6.7	M5	Ball stylus	10.0	Ruby	150.0	Carbon fibre	144.5	14.66
A-5003-5268	–	M5 STY D6R L200 EWL187 d4CF	6.7	M5	Ball stylus	6.0	Ruby	200.0	Carbon fibre	187.0	10.07
A-5003-5269	–	M5 STY D8R L200 EWL180 d6CF	6.7	M5	Ball stylus	8.0	Ruby	200.0	Carbon fibre	180.0	15.92
A-5003-5270	–	M5 STY D10R L200 EWL194.5 d6CF	6.7	M5	Ball stylus	10.0	Ruby	200.0	Carbon fibre	194.5	16.87
A-5003-5271	–	M5 STY D6R L300 EWL287 d4CF	6.8	M5	Ball stylus	6.0	Ruby	300.0	Carbon fibre	287.0	12.02
A-5003-5272	–	M5 STY D8R L300 EWL280 d6CF	6.8	M5	Ball stylus	8.0	Ruby	300.0	Carbon fibre	280.0	20.33
A-5003-5273	–	M5 STY D10R L300 EWL294.5 d6CF	6.8	M5	Ball stylus	10.0	Ruby	300.0	Carbon fibre	294.5	21.28
A-5003-5275	–	M5 HEM D16CE d7SS	6.15	M5	Hemispherical	16.0	Ceramic	11.5	Stainless steel	–	7.0
A-5003-5276	–	M5 HEM D22CE d7SS	6.15	M5	Hemispherical	22.0	Ceramic	9.5	Stainless steel	–	14.0
A-5003-5277	–	M5 HEM D30CE d7SS	6.15	M5	Hemispherical	30.0	Ceramic	24.5	Stainless steel	–	19.7
A-5003-5278	–	M5 ACC KNUCKLE d11 ROTARY	8.1	M5	Accessory	–	–	36.5	Stainless steel	–	16.5
A-5003-5279	–	M5 ACC KNUCKLE d20 ROTARY	8.1	M5	Accessory	–	–	46.5	Stainless steel	–	64.9
A-5003-5288	–	M5 DSC D12SLVS T3 L3 BR-Y5	6.15	M5	Disc	12.0	Silver steel	3.0	Stainless steel	3.0	2.52
A-5003-5289	–	M5 DSC D21SLVS T3 L3 BR-Y5	6.15	M5	Disc	21.0	Silver steel	3.0	Stainless steel	3.0	5.23
A-5003-5290	–	M5 DSC D35SLVS T5 L4 BR-Y8	6.15	M5	Disc	35.0	Silver steel	4.0	Stainless steel	5.0	14.0
A-5003-5291	–	M5 DSC D63.5SLVS T5 L4 BR-Y8	6.15	M5	Disc	63.5	Silver steel	4.0	Stainless steel	5.0	51.00
A-5003-5676	–	M5 ACC CUBE BOLT L33	8.3	M5	Accessory	–	–	33.0	Stainless steel	–	6.4
A-5003-5677	–	M5 ACC CUBE BOLT L28	8.3	M5	Accessory	–	–	28.0	Stainless steel	–	6.0
A-5003-5678	–	M5-M2 ACC CUBE BOLT L33	8.3	M5	Accessory	–	–	33.0	Stainless steel	–	7.1
A-5003-5679	–	M5-M2 ACC CUBE BOLT L28	8.3	M5	Accessory	–	–	28.0	Stainless steel	–	6.7
A-5003-5683	–	M5-M2 15X15 CUBE	8.3	M5	Accessory	–	–	15.0	Titanium	–	13.75
A-5003-5684	–	M5-M2 20X20 CUBE	8.3	M5	Accessory	–	–	20.0	Titanium	–	35.18
A-5003-5723	–	M3 STY D2SN L21 EWL9.63 d1.4SS	4.1	M3	Ball stylus	2.0	Silicon nitride	21.0	Stainless steel	9.63	1.00
A-5003-5724	–	M3 STY D2SN L30 EWL22.8d1.5TC	4.1	M3	Ball stylus	2.0	Silicon nitride	30.0	Tungsten carbide	22.8	1.32
A-5003-5725	–	M3 STY D4SN L50 EWL46 d2CE	4.2	M3	Ball stylus	4.0	Silicon nitride	50.0	Ceramic	46.0	1.22
A-5003-5726	–	M3 STY D6SN L75 EWL75 d4CF	4.3	M3	Ball stylus	6.0	Silicon nitride	75.0	Carbon fibre	75.0	2.32

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Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5003-5727	–	M3 STY D6SN L100 EWL100 d4CF	4.3	M3	Ball stylus	6.0	Silicon nitride	100.0	Carbon fibre	100.0	2.81
A-5003-5728	–	M4 STY D2SN L19 EWL9.2 d1.4SS	5.1	M4	Ball stylus	2.0	Silicon nitride	19.0	Stainless steel	9.2	2.30
A-5003-5729	–	M4 STY D4SN L18 EWL13.7 d3SS	5.1	M4	Ball stylus	4.0	Silicon nitride	18.0	Stainless steel	13.7	2.08
A-5003-5730	–	M4 STY D6SN L50 EWL38.5 d4.4CF	5.4	M4	Ball stylus	6.0	Silicon nitride	50.0	Carbon fibre	38.5	5.02
A-5003-5731	–	M4 STY D6SN L100 EWL88.5 d4.4CF	5.4	M4	Ball stylus	6.0	Silicon nitride	100.0	Carbon fibre	88.5	6.12
A-5003-5732	–	M5 STY D2SN L20 EWL11 d1TC	6.2	M5	Ball stylus	2.0	Silicon nitride	20.0	Tungsten carbide	11.0	4.70
A-5003-5733	–	M5 STY D4SN L20 EWL11.9 d2TC	6.2	M5	Ball stylus	4.0	Silicon nitride	20.0	Tungsten carbide	11.9	5.17
A-5003-5734	–	M5 STY D6SN L50 EWL39.5 d4CF	6.3	M5	Ball stylus	6.0	Silicon nitride	50.0	Carbon fibre	39.5	6.02
A-5003-5735	–	M5 STY D6SN L100 EWL56.9 d4CF	6.5	M5	Ball stylus	6.0	Silicon nitride	100.0	Carbon fibre	56.9	19.58
A-5003-5736	–	M3 STY D2Z L21 EWL9.63 d1.4SS	4.1	M3	Ball stylus	2.0	Zirconia	21.0	Stainless steel	9.63	1.03
A-5003-5737	–	M3 STY D4Z L21 EWL17.2 d2.5SS	4.1	M3	Ball stylus	4.0	Zirconia	21.0	Stainless steel	17.2	1.60
A-5003-5738	–	M3 STY D2Z L30 EWL22.8 d1.5TC	4.1	M3	Ball stylus	2.0	Zirconia	30.0	Tungsten carbide	22.8	1.35
A-5003-5739	–	M3 STY D4Z L50 EWL46 d2CE	4.2	M3	Ball stylus	4.0	Zirconia	50.0	Ceramic	46.0	1.54
A-5003-5740	–	M3 STY D6Z L75 EWL75 d4CF	4.3	M3	Ball stylus	6.0	Zirconia	75.0	Carbon fibre	75.0	3.39
A-5003-5741	–	M3 STY D6Z L100 EWL100 d4CF	4.3	M3	Ball stylus	6.0	Zirconia	100.0	Carbon fibre	100.0	3.88
A-5003-5742	–	M4 STY D2Z L19 EWL9.2 d1.4SS	5.1	M4	Ball stylus	2.0	Zirconia	19.0	Stainless steel	9.2	2.33
A-5003-5743	–	M4 STY D4Z L18 EWL13.2 d3SS	5.1	M4	Ball stylus	4.0	Zirconia	18.0	Stainless steel	13.7	2.40
A-5003-5744	–	M4 STY D6Z L50 EWL38.5 d4.4CF	5.4	M4	Ball stylus	6.0	Zirconia	50.0	Carbon fibre	38.5	6.09
A-5003-5745	–	M4 STY D6Z L100 EWL86 d4.4CF	5.4	M4	Ball stylus	6.0	Zirconia	100.0	Carbon fibre	88.5	7.19
A-5003-5746	–	M5 STY D2Z L20 EWL11 d1TC	6.2	M5	Ball stylus	2.0	Zirconia	20.0	Tungsten carbide	11.0	4.73
A-5003-5747	–	M5 STY D4Z L20 EWL11.9 d2TC	6.2	M5	Ball stylus	4.0	Zirconia	20.0	Carbon fibre	11.9	4.95
A-5003-5748	–	M5 STY D6Z L50 EWL39.5 d4CF	6.3	M5	Ball stylus	6.0	Zirconia	50.0	Tungsten carbide	39.5	5.49
A-5003-5749	–	M5 STY D6Z L100 EWL58.9 d4CF	6.5	M5	Ball stylus	6.0	Zirconia	100.0	Carbon fibre	58.9	20.65
A-5003-5909	–	M5 STYLUS KIT - COMPREHENSIVE	8.12	M5	Accessory	–	–	–	–	–	–
A-5003-5910	–	M5 STYLUS KIT - GENERAL PURPOSE	8.13	M5	Accessory	–	–	–	–	–	–
A-5003-5911	–	M5 STYLUS KIT - STANDARD	8.11	M5	Accessory	–	–	–	–	–	–
A-5003-5912	–	M5 STYLUS EXTENSION KIT - 11MM	8.14	M5	Accessory	–	–	–	–	–	–
A-5003-5913	–	M5 STYLUS EXTENSION KIT - 20MM	8.15	M5	Accessory	–	–	–	–	–	–
A-5003-6120	PS8R	M2 STY D2R L10 EWL6 d1SS	3.1	M2	Ball stylus	2.0	Silicon nitride	10.0	Stainless steel	6.0	0.3
A-5003-6134	–	M5 ACC D11 EXTENSION TOOL	6.9	–	Accessory	–	–	–	–	–	–
A-5003-6135	–	M5 ACC D20 EXTENSION TOOL	6.9	–	Accessory	–	–	–	–	–	–
A-5003-6151	–	M3 STY KIT (SP25M/SM25-1/SH25-1)	8.7	M3	Accessory	–	–	–	–	–	–
A-5003-6152	–	M3 STY KIT (SP25M/SM25-2/SH25-2)	8.7	M3	Accessory	–	–	–	–	–	–
A-5003-6153	–	M3 STY KIT (SP25M/SM25-3/SH25-3)	8.8	M3	Accessory	–	–	–	–	–	–
A-5003-6168	–	M5 STYLUS KIT (SP80)	8.10	M5	Accessory	–	–	–	–	–	–
A-5003-6510	–	M4 STY D6R L100 EWL88.5 d4.4CF	5.4	M4	Ball stylus	6.0	Ruby	100.0	Carbon fibre	88.5	6.2
A-5003-6511	–	M4 STY D6R L150 EWL138.5 d4.4CF	5.4	M4	Ball stylus	6.0	Ruby	150.0	Carbon fibre	138.5	7.5
A-5003-6512	–	M4 STY D6R L200 EWL188.5 d4.4CF	5.4	M4	Ball stylus	6.0	Ruby	200.0	Carbon fibre	188.5	8.7
A-5003-6691	PS16R	M2 STY D3R L20 EWL17 d1.5SS	3.1	M2	Ball stylus	3.0	Silicon nitride	20.0	Stainless steel	17.0	0.5
A-5003-7054	–	M3 STY D10R L200 EWL200 d4CF	4.4	M3	Ball stylus	10.0	Ruby	200.0	Carbon fibre	200.0	6.47
A-5003-7055	–	M3 STY D10R L150 EWL150 d4CF	4.4	M3	Ball stylus	10.0	Ruby	150.0	Carbon fibre	150.0	5.49
A-5003-7056	–	M3 STY D10R L100 EWL100 d4CF	4.4	M3	Ball stylus	10.0	Ruby	100.0	Carbon fibre	100.0	4.53
A-5003-7057	–	M3 STY D10R L75 EWL75 d4CF	4.4	M3	Ball stylus	10.0	Ruby	75.0	Carbon fibre	75.0	4.05
A-5003-7098	–	M3 DSC SD30CER T1.5 L5.5 d4TI	4.7	M3	Disc stylus	30.0	–	–	–	–	7.10
A-5003-7269	PS58R	M2 STY D2R L40 EWL32.5 d1.5TC	3.3	M2	Ball stylus	2.0	Silicon nitride	40.0	Tungsten carbide	32.5	1.29
A-5003-7306	–	M4 STY D6R L50 EWL38.5 d4.45CF	5.4	M4	Ball stylus	6.0	Ruby	50.0	Carbon fibre	38.5	4.1
A-5003-7445	–	M3 STY D12R L100 EWL100 d4CF	4.5	M3	Ball stylus	12.0	Ruby	100.0	Carbon fibre	100.0	5.90
A-5003-7446	–	M3 STY D12R L200 EWL200 d4CF	4.5	M3	Ball stylus	12.0	Ruby	150.0	Carbon fibre	150.0	6.90
A-5003-7447	–	M3 STY D12R L200 EWL200 d4CF	4.5	M3	Ball stylus	12.0	Ruby	200.0	Carbon fibre	200.0	7.90
A-5003-7573	PS53R	M2 STY D2R L30 EWL25 d1.5TC	3.2	M2	Ball stylus	2.0	Silicon nitride	30.0	Tungsten carbide	25.0	0.99
A-5003-7673	–	CONE STYLUS 1.25x20 d3 L57	7.1	11/4-20	Cone stylus	3.0	Zirconia	57.0	–	–	–
A-5003-7674	–	CONE STYLUS 1.25x20 d6 L57	7.1	11/4-20	Cone stylus	6.0	Zirconia	57.0	–	–	–
A-5003-7675	–	CONE STYLUS 1.25X20 d30 PT L75	7.1	11/4-20	Cone stylus	–	Zirconia	57.0	–	–	–
A-5003-7676	–	STYLUS M6 DIA .125" ZI PROBE 0066	7.1	M6	Cone stylus	1/8 in	Zirconia	43.0	–	–	–
A-5003-7677	–	STYLUS M6 DIA .25" ZI PROBE 0068	7.1	M6	Cone stylus	1/4 in	Zirconia	43.0	–	–	–
A-5003-7678	–	STYLUS M6 DIA 3MM ZI PROBE 0065	7.1	M6	Cone stylus	3.0	Zirconia	43.0	–	–	–
A-5003-7679	–	STYLUS M6 DIA 6MM ZI PROBE 0067	7.1	M6	Cone stylus	6.0	Zirconia	43.0	–	–	–
A-5003-7829	–	M4 STYLUS KIT (TP7M)	8.9	M4	Accessory	–	–	–	–	–	–
A-5003-8124	–	M3 STY KIT (SP25M/SM253/SH25-4)	8.8	M3	Accessory	–	–	–	–	–	–
A-5003-9190	–	FARO PROBE KIT	7.2	–	Accessory	–	–	–	–	–	–

Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5003-9524	PS12R	M2 STY D4R L10 EWL10 d1.5SS	3.1	M2	Ball stylus	4.0	Silicon nitride	10.0	Stainless steel	10.0	0.4
A-5004-0201	PS9R	M2 STY D1R L10 EWL4.5 d0.7SS	3.1	M2	Ball stylus	1.0	Silicon nitride	10.0	Stainless steel	4.5	0.3
A-5004-0236	PS17R	M2 STY D4R L20 EWL20 d1.5SS	3.1	M2	Ball stylus	4.0	Silicon nitride	20.0	Stainless steel	20.0	0.6
A-5004-0237	PS14R	M2 STY D6R L10 EWL10 d2.5SS	3.1	M2	Ball stylus	6.0	Silicon nitride	10.0	Stainless steel	10.0	0.9
A-5004-1017	–	M2 STY D2R L20 EWL14 d1TC	3.2	M2	Ball stylus	2.0	Silicon nitride	20.0	Tungsten carbide	14.0	0.48
A-5004-1021	–	M2 STY D3R L20 EWL17 d1.5TC	3.2	M2	Ball stylus	3.0	Silicon nitride	20.0	Tungsten carbide	17.0	0.77
A-5004-1387	–	M2 DSC SD10SLVS L10 T1.2 BRY	3.5	M2	Disc stylus	–	Silver steel	–	Stainless steel	–	1.0
A-5004-1395	–	M2 DSC SD12SLVS L7.5 T1.6 BRY	3.5	M2	Disc stylus	–	Silver steel	–	Stainless steel	–	2.0
A-5004-1396	–	M2 DSC SD14SLVS L7.5 T1.6 BRY	3.5	M2	Disc stylus	–	Silver steel	–	Stainless steel	–	2.5
A-5004-1508	PS23R	M2 STY D1R L20 EWL7 d0.7TC	3.1	M2	Ball stylus	1.0	Silicon nitride	20.0	Tungsten carbide	7.0	0.50
A-5004-1519	PS67R	M2 STY D4R L50 EWL46 d2CE	3.3	M2	Ball stylus	4.0	Silicon nitride	50.0	Ceramic	50.0	0.91
A-5004-1865	–	M4 STY BREAK STEM L15 d2.5	5.6	M4	Crash protection device x 10	–	–	15.2	Silver steel	–	4.6
A-5004-1867	–	M4 CPD L9SLVS	5.6	M4	Crash protection device x 10	–	–	9.0	Silver steel	–	1.5
A-5004-1869	–	M4 CPD L16SLVS	5.6	M4	Crash protection device x 10	–	–	16.0	Silver steel	–	2.1
A-5004-1918	PS24R	M2 STY D1.5R L10 EWL4.5 d0.7SS	3.1	M2	Ball stylus	1.5	Silicon nitride	10.0	Stainless steel	4.5	0.3
A-5004-1920	PS26R	M2 STY D2.5R L10 EWL6.5 d1SS	3.1	M2	Ball stylus	2.5	Silicon nitride	10.0	Stainless steel	6.5	0.3
A-5004-1921	PS13R	M2 STY D5R L10 EWL10 d2.5SS	3.1	M2	Ball stylus	5.0	Silicon nitride	10.0	Stainless steel	10.0	0.7
A-5004-1922	PS15R	M2 STY D8R L11 EWL11 d2.5SS	3.1	M2	Ball stylus	8.0	Silicon nitride	11.0	Stainless steel	11.0	1.5
A-5004-1923	PS27R	M2 STY D2.5R L20 EWL16.4 d1.4SS	3.1	M2	Ball stylus	2.5	Silicon nitride	20.0	Stainless steel	16.4	0.4
A-5004-1925	PS49R	M2 STY D1.5R L20 EWL12.5 d1TC	3.1	M2	Ball stylus	1.5	Silicon nitride	20.0	Tungsten carbide	12.5	0.50
A-5004-1928	–	M2 STY D2.5R L20 EWL15.5 d1TC	3.2	M2	Ball stylus	2.5	Silicon nitride	20.0	Tungsten carbide	15.5	0.5
A-5004-1929	–	M2 STY D4R L22 EWL22 d2TC	3.2	M2	Ball stylus	4.0	Silicon nitride	22.0	Tungsten carbide	22.0	1.24
A-5004-1931	PS52R	M2 STY D1.5R L30 EWL25 d1TC	3.2	M2	Ball stylus	1.5	Silicon nitride	30.0	Tungsten carbide	25.0	0.58
A-5004-1932	PS54R	M2 STY D2.5R L30 EWL22.5 d2TC	3.2	M2	Ball stylus	2.5	Silicon nitride	30.0	Tungsten carbide	22.5	1.48
A-5004-1933	PS55R	M2 STY D3R L30 EWL27 d2TC	3.2	M2	Ball stylus	3.0	Silicon nitride	30.0	Tungsten carbide	27.0	1.49
A-5004-1944	PS56R	M2 STY D4R L30 EWL30 d2TC	3.2	M2	Ball stylus	4.0	Silicon nitride	30.0	Tungsten carbide	30.0	1.57
A-5004-1945	PS57R	M2 STY D5R L30 EWL30 d2.5TC	3.2	M2	Ball stylus	5.0	Silicon nitride	30.0	Tungsten carbide	30.0	2.57
A-5004-1946	–	M2 STY D3R L30 EWL27 d2CE	3.2	M2	Ball stylus	3.0	Silicon nitride	30.0	Ceramic	27.0	0.44
A-5004-1952	–	M2 STY D4R L30 EWL30 d2CE	3.2	M2	Ball stylus	4.0	Silicon nitride	30.0	Ceramic	30.0	0.68
A-5004-1953	–	M2 STY D5R L30 EWL30 d2.5CE	3.2	M2	Ball stylus	5.0	Silicon nitride	30.0	Ceramic	30.0	0.93
A-5004-1954	–	M2 STY D6R L30 EWL30 d2.5CE	3.2	M2	Ball stylus	6.0	Silicon nitride	30.0	Ceramic	30.0	1.11
A-5004-1955	–	M2 STY D4R L30 EWL30 d2CF	3.2	M2	Ball stylus	4.0	Silicon nitride	30.0	Carbon fibre	30.0	0.57
A-5004-1956	–	M2 STY D5R L30 EWL30 d3CF	3.2	M2	Ball stylus	5.0	Silicon nitride	30.0	Carbon fibre	30.0	0.79
A-5004-1957	–	M2 STY D6R L30 EWL30 d3CF	3.2	M2	Ball stylus	6.0	Silicon nitride	30.0	Carbon fibre	30.0	0.96
A-5004-1960	PS60R	M2 STY D3R L40 EWL37 d2TC	3.3	M2	Ball stylus	3.0	Silicon nitride	40.0	Tungsten carbide	37.0	1.97
A-5004-1961	PS61R	M2 STY D4R L40 EWL40 d2TC	3.3	M2	Ball stylus	4.0	Silicon nitride	40.0	Tungsten carbide	40.0	2.04
A-5004-1962	PS62R	M2 STY D5R L40 EWL40 d2.5TC	3.3	M2	Ball stylus	5.0	Silicon nitride	40.0	Tungsten carbide	40.0	3.17
A-5004-1963	PS63R	M2 STY D3R L50 EWL47 d2TC	3.3	M2	Ball stylus	3.0	Silicon nitride	50.0	Tungsten carbide	47.0	2.44
A-5004-1964	PS64R	M2 STY D4R L50 EWL50 d2TC	3.3	M2	Ball stylus	4.0	Silicon nitride	50.0	Tungsten carbide	50.0	2.52
A-5004-1967	PS66R	M2 STY D3R L50 EWL47 d2CE	3.3	M2	Ball stylus	3.0	Silicon nitride	50.0	Ceramic	47.0	0.83
A-5004-1965	PS65R	M2 STY D5R L50 EWL50 d2.5TC	3.3	M2	Ball stylus	5.0	Silicon nitride	50.0	Tungsten carbide	50.0	3.75
A-5004-1968	PS68R	M2 STY D5R L50 EWL50 d2.5CE	3.3	M2	Ball stylus	5.0	Silicon nitride	50.0	Ceramic	50.0	1.31
A-5004-1969	–	M2 STY D6R L50 EWL50 d2.5CE	3.3	M2	Ball stylus	6.0	Silicon nitride	50.0	Ceramic	50.0	1.49
A-5004-1970	–	M2 STY D4R L50 EWL50 d3CF	3.3	M2	Ball stylus	4.0	Silicon nitride	50.0	Carbon fibre	50.0	1.0
A-5004-1971	–	M2 STY D5R L50 EWL50 d3CF	3.3	M2	Ball stylus	5.0	Silicon nitride	50.0	Carbon fibre	50.0	1.1
A-5004-1972	–	M2 STY D6R L50 EWL50 d3CF	3.3	M2	Ball stylus	6.0	Silicon nitride	50.0	Carbon fibre	50.0	1.2
A-5004-1973	–	M2 STY D4R L75 EWL75 d3CF	3.4	M2	Ball stylus	4.0	Silicon nitride	75.0	Carbon fibre	75.0	0.75
A-5004-1974	–	M2 STY D5R L75 EWL75 d3CF	3.4	M2	Ball stylus	5.0	Silicon nitride	75.0	Carbon fibre	75.0	1.35
A-5004-1975	–	M2 STY D6R L75 EWL75 d3CF	3.4	M2	Ball stylus	6.0	Silicon nitride	75.0	Carbon fibre	75.0	1.45
A-5004-1976	–	M2 STY D4R L100 EWL100 d3CF	3.4	M2	Ball stylus	4.0	Silicon nitride	100.0	Carbon fibre	100.0	1.50
A-5004-1977	–	M2 STY D5R L100 EWL100 d3CF	3.4	M2	Ball stylus	5.0	Silicon nitride	100.0	Carbon fibre	100.0	1.59
A-5004-1978	–	M2 STY D6R L100 EWL100 d3CF	3.4	M2	Ball stylus	6.0	Silicon nitride	100.0	Carbon fibre	100.0	1.78
A-5004-2016	PS29R	M2 STY D0.3R L10 EWL2 d0.2TC	3.1	M2	Ball stylus	0.3	Silicon nitride	10.0	Tungsten carbide	2.0	0.3
A-5004-2018	–	M2 STY D1R L10 EWL4 d0.7TC	3.1	M2	Ball stylus	1.0	Silicon nitride	10.0	Tungsten carbide	4.0	0.3
A-5004-2019	–	M2 STY D0.5R L20 EWL7 d0.3TC	3.1	M2	Ball stylus	0.5	Silicon nitride	20.0	Tungsten carbide	7.0	0.48
A-5004-2020	–	M2 STY D0.7R L20 EWL12 d0.5TC	3.1	M2	Ball stylus	0.7	Silicon nitride	20.0	Tungsten carbide	12.0	0.32
A-5004-2021	PS48R	M2 STY D1R L20 EWL12.5 d0.8TC	3.1	M2	Ball stylus	1.0	Silicon nitride	20.0	Tungsten carbide	12.5	0.41
A-5004-2022	PS51R	M2 STY D1R L27 EWL27.5 d0.7TC	3.2	M2	Ball stylus	1.0	Silicon nitride	27.5	Tungsten carbide	20.5	0.40
A-5555-0125	–	M5 EXT L200 d20AL	6.14	M5	Extension	–	–	200.0	Aluminium	–	85.0
A-5555-0127	–	M5 EXT L100 d20AL	6.14	M5	Extension	–	–	100.0	Aluminium	–	50.0

## Styli and accessories

Product range listing  
by part number

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Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
A-5555-0136	–	M5 EXT L100 d11SS	6.13	M5	Extension	–	–	100.0	Stainless steel	–	73.0
A-5555-0140	–	M5 EXT L20 d11SS	6.13	M5	Extension	–	–	20.0	Stainless steel	–	13.0
A-5555-0142	–	M5 EXT L10 d11SS	6.13	M5	Extension	–	–	10.0	Stainless steel	–	6.0
A-5555-0424	–	M5 EXT L150 d11CF	6.10	M5	Extension	–	–	150.0	Carbon fibre	–	15.4
A-5555-0425	–	M5 EXT L120 d11CF	6.10	M5	Extension	–	–	120.0	Carbon fibre	–	13.2
A-5555-0427	–	M5 EXT L250 d20CF	6.12	M5	Extension	–	–	250.0	Carbon fibre	–	52.9
A-5555-0621	–	M5 EXT L80 d20CF	6.11	M5	Extension	–	–	80.0	Carbon fibre	–	29.3
A-5555-0623	–	M5 EXT L70 d11CF	6.9	M5	Extension	–	–	70.0	Carbon fibre	–	9.7
A-5555-0647	–	M5 EXT L40 d11CF	6.9	M5	Extension	–	–	40.0	Carbon fibre	–	7.6
A-5555-0648	–	M5 EXT L50 d11CF	6.9	M5	Extension	–	–	50.0	Carbon fibre	–	8.3
A-5555-0649	–	M5 EXT L60 d11CF	6.9	M5	Extension	–	–	60.0	Carbon fibre	–	9.0
A-5555-0650	–	M5 EXT L80 d11CF	6.9	M5	Extension	–	–	80.0	Carbon fibre	–	10.4
A-5555-0651	–	M5 EXT L90 d11CF	6.9	M5	Extension	–	–	90.0	Carbon fibre	–	11.1
A-5555-0652	–	M5 EXT L100 d11CF	6.9	M5	Extension	–	–	100.0	Carbon fibre	–	11.8
A-5555-0653	–	M5 EXT L180 d11CF	6.10	M5	Extension	–	–	180.0	Carbon fibre	–	17.5
A-5555-0654	–	M5 EXT L200 d11CF	6.10	M5	Extension	–	–	200.0	Carbon fibre	–	18.9
A-5555-0655	–	M5 EXT L250 d11CF	6.10	M5	Extension	–	–	250.0	Carbon fibre	–	22.4
A-5555-0642	–	M5 EXT L300 d11CF	6.10	M5	Extension	–	–	300.0	Carbon fibre	–	25.9
A-5555-0656	–	M5 EXT L400 d11CF	6.10	M5	Extension	–	–	400.0	Carbon fibre	–	33.0
A-5555-0620	–	M5 EXT L40 d20CF	6.11	M5	Extension	–	–	40.0	Carbon fibre	–	23.8
A-5555-0657	–	M5 EXT L50 d20CF	6.11	M5	Extension	–	–	50.0	Carbon fibre	–	25.1
A-5555-0658	–	M5 EXT L60 d20CF	6.11	M5	Extension	–	–	60.0	Carbon fibre	–	26.5
A-5555-0659	–	M5 EXT L100 d20CF	6.11	M5	Extension	–	–	100.0	Carbon fibre	–	32.1
A-5555-0660	–	M5 EXT L120 d20CF	6.11	M5	Extension	–	–	120.0	Carbon fibre	–	34.9
A-5555-0661	–	M5 EXT L150 d20CF	6.11	M5	Extension	–	–	150.0	Carbon fibre	–	39.0
A-5555-0662	–	M5 EXT L180 d20CF	6.12	M5	Extension	–	–	180.0	Carbon fibre	–	43.2
A-5555-0663	–	M5 EXT L200 d20CF	6.12	M5	Extension	–	–	200.0	Carbon fibre	–	46.0
A-5555-0664	–	M5 EXT L300 d20CF	6.12	M5	Extension	–	–	300.0	Carbon fibre	–	59.9
A-5555-0665	–	M5 EXT L400 d20CF	6.12	M5	Extension	–	–	400.0	Carbon fibre	–	73.8
A-5555-0667	–	M5 EXT L500 d20CF	6.12	M5	Extension	–	–	500.0	Carbon fibre	–	87.7
A-5555-0668	–	M5 EXT L600 d20CF	6.12	M5	Extension	–	–	600.0	Carbon fibre	–	101.5
A-5555-0669	–	M5 EXT L30 d11SS	6.13	M5	Extension	–	–	30.0	Stainless steel	–	20.0
A-5555-0670	–	M5 EXT L50 d11SS	6.13	M5	Extension	–	–	50.0	Stainless steel	–	34.8
A-5555-0671	–	M5 EXT L50 d20AL	6.14	M5	Extension	–	–	50.0	Aluminium	–	47.2
A-5555-0189	–	M5 ACC 15x15 CUBE	8.3	M5	Accessory	–	–	15.0	Titanium	–	12.85
A-5555-0190	–	M5 ACC 20X20 CUBE	8.3	M5	Accessory	–	–	20.0	Titanium	–	32.55
A-5555-0194	–	M5 ACC 40X20 DOUBLE CUBE	8.3	M5	Accessory	–	–	40.0	Titanium	–	63.50
M-1034-0014	–	DATUM FIXING STUD M10	8.16	M10	Accessory	–	–	–	–	–	–
M-1034-0015	–	DATUM FIXING STUD M8	8.16	M8	Accessory	–	–	–	–	–	–
M-1034-0016	–	DATUM FIXING STUD M6	8.16	M6	Accessory	–	–	–	–	–	–
M-1034-0017	–	DATUM FIXING STUD 3/8 UNC	8.16	3/8 UNC	Accessory	–	–	–	–	–	–
M-1034-0018	–	DATUM FIXING STUD 5/16 UNC	8.16	5/16 UNC	Accessory	–	–	–	–	–	–
M-1034-0019	–	DATUM EXTENSION L75	8.16	–	Accessory	–	–	–	–	–	–
M-1034-0042	–	DATUM ADAPTER 2WAY	8.16	–	Accessory	–	–	–	–	–	–
M-1034-0052	–	DATUM ADAPTER 3WAY	8.16	–	Accessory	–	–	–	–	–	–
M-2008-0333	–	M3 CPD L13.3 SLVS	5.6	M3	Crash protection device	–	–	13.35	Silver steel	–	2.43
M-2008-0447	–	TS27R HORIZONTAL HOLDER	5.10	M4	Tool datuming	–	–	–	Stainless steel	–	7.43
M-2008-0604	–	M3 CPD L22.3 SLVS	5.6	M3	Crash protection device	–	–	22.35	Silver steel	–	3.6
M-2008-0605	–	M3 CPD L30.3 SLVS	5.6	M3	Crash protection device	–	–	30.35	Silver steel	–	4.5
M-2048-2093	–	STYLUS BREAK STEM	5.6	M4	Crash protection device	–	–	13.50	Silver steel	–	1.37
M-2085-0069	–	M4 CPD L12SLVS	5.6	M4	Crash protection device	–	–	12.0	Silver steel	–	2.7
M-2116-0127	–	BREAK STEM	5.6	M4	Crash protection device	–	–	19.0	Silver steel	–	2.2
M-2197-0150	–	M4 CPD L16SLVS	5.6	M4	Crash protection device	–	–	16.0	Silver steel	–	2.1
M-2197-0156	–	M4 CPD L9SLVS	5.6	M4	Crash protection device	–	–	9.0	Silver steel	–	1.5
M-5000-3540	–	M2-M3 STYLUS TOOL	8.3	–	Accessory	–	–	–	–	–	–
M-5000-3592	SE2	M3 EXT L20 d4SS	4.6	M3	Extension	–	–	20.0	Stainless steel	–	1.6
M-5000-3593	SE3	M3 EXT L35 d4SS	4.6	M3	Extension	–	–	35.0	Stainless steel	–	2.9
M-5000-3647	SE4	M2 EXT L10 d3SS	3.6	M2	Extension	–	–	10.0	Stainless steel	–	0.4
M-5000-3648	SE5	M2 EXT L20 d3SS	3.6	M2	Extension	–	–	20.0	Stainless steel	–	0.9

Part no.	PS no.	Description	Section no.	Thread	Component	Ball/tip size (mm)	Ball/tip material	Length (mm)	Stem material	EWL (mm)	Mass (g)
M-5000-3707	–	M4 STYLUS TOOL	8.3	–	Accessory	–	–	–	–	–	–
M-5000-4150	PS20R	M2 PNT D3SLVS 30deg L15	3.7	M2	Pointer	0.1	Silver steel	15.0	Silver steel	–	0.7
M-5000-4152	PS18R	M2 CYL D1.5SLVS L10.75 EWL1.25	3.5	M2	Cylinder	1.5	Silver steel	10.75	Silver steel	1.25	0.3
M-5000-4153	PS19R	M2 CYL D3SLVS L12.75 EWL3.8	3.5	M2	Cylinder	3.0	Silver steel	12.75	Silver steel	3.8	0.6
M-5000-4162	SE6	M2 EXT L30 d3SS	3.6	M2	Extension	–	–	30.0	Stainless steel	–	1.4
M-5000-4163	SA3	M3-M2 EXT L5SS	8.2	M3	Extension	–	–	5.0	Stainless steel	–	0.6
M-5000-4164	SA2	M2-M3 EXT L7SS	8.2	M2	Extension	–	–	7.0	Stainless steel	–	0.4
M-5000-6460	–	M4 STR 5Way L15	5.5	M4	Star	–	–	15.0	–	–	10.0
M-5000-6622	SA5	M4-M2 EXT L5SS	8.2	M4	Extension	–	–	5.0	Stainless steel	–	1.5
M-5000-6625	SE21	M4-M3 EXT L20SS	8.2	M4	Extension	–	–	20.0	Stainless steel	–	3.2
M-5000-6714	SA6	M4-M3 EXT L9SS	8.2	M4	Extension	–	–	9.0	Stainless steel	–	1.4
M-5000-7582	SA-8	M4 CPD L8SS	5.6	M4	Crash protection device	–	–	8.0	Stainless steel	–	1.8
M-5000-7583	SE-9	M4 EXT L10 d7SS	5.11	M4	Extension	–	–	10.0	Stainless steel	–	2.4
M-5000-7584	SE-10	M4 EXT L15 d7SS	5.11	M4	Extension	–	–	15.0	Stainless steel	–	3.7
M-5000-7585	SE-1	M4 EXT L20 d7SS	5.11	M4	Extension	–	–	20.0	Stainless steel	–	4.8
M-5000-7586	SE-12	M4 EXT L30 d7SS	5.11	M4	Extension	–	–	30.0	Stainless steel	–	7.4
M-5000-7587	SS2	M4 CPD L8 CRANK SS	5.6	M4	Crash protection device	–	–	8.0	Stainless steel	–	1.4
M-5000-7588	SS3	M4 CPD L8SS SWIVEL L10	5.5	M4	Crash protection device	–	–	10.0	Stainless steel	–	1.5
M-5000-7589	CR-1	M4 CEX SS L1-5 L2-21.9	5.5	M4	Cranked extension	–	–	21.9	Stainless steel	–	6.07
M-5000-7590	CR-2	M4 CEX SS L1-5 L2-27.6	5.5	M4	Cranked extension	–	–	27.6	Stainless steel	–	6.94
M-5000-7591	SW-1	M4 ACC SWIVEL L1-10 L2-12.5	5.5	M4	Accessory	–	–	10.0	Stainless steel	–	2.76
M-5000-7592	SW-2	M4 ACC SWIVEL L1-13.5 L2-16	5.5	M4	Accessory	–	–	13.5	Stainless steel	–	3.70
M-5000-7633	SE8	M3 EXT L10 d4SS	4.6	M3	Extension	–	–	10.0	Stainless steel	–	0.9
M-5000-7634	SE7	M2 EXT L5 d3SS	3.6	M2	Extension	–	–	5.0	Stainless steel	–	0.2
M-5000-7779	SE18	M2 EXT L40 d3SS	3.6	M2	Extension	–	–	40.0	Stainless steel	–	1.8
M-5000-8167	SATF6	TF6-M3 EXT L18SS	8.2	TF6	Extension	–	–	18.0	Stainless steel	–	1.9
M-5000-9301	–	M5-M4 EXT L6.5SS	8.2	M5	Extension	–	–	6.5	Stainless steel	–	6.0
M-5000-9304	–	M5 STYLUS TOOL	8.3	–	Accessory	–	–	–	–	–	–
P-GA01-0001	–	GRAMME GAUGE	8.17	–	Accessory	–	–	–	–	–	–
P-TL09-0003	–	SPANNER 5 MM A/F	5.6	–	Accessory	–	–	–	–	–	–

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