

## STYLI AND ACCESSORIES

FULL RANGE CATALOGUE

GENERAL



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## Stylus system components from Mitutoyo: Add the touch of perfection to your quality assurance.

### Precision with a passion

As the interface between measurement system and workpiece, the stylus is a keyplayer in coordinate measurement. It has to fulfil the highest quality requirements to suit its task.

By contact of the stylus tip with the workpiece, a probing sensor determines the geometrical position of the contactpoint in the X, Y and Z axes and feeds it back to the controller unit and CMM software. Touch point and scanning probe systems define the specification of the stylus. To build perfect styli that suit this specification, properties like flexural rigidity, thermal expansion, weight and sphericity of the ball must be taken in consideration.

Mitutoyo styli are made to the highest standards to ensure maximum quality and performance. Precision machined components made from the finest quality materials and Grade 5 (DIN 5401:2002) styli balls set the base for high accuracy CMM measurement.

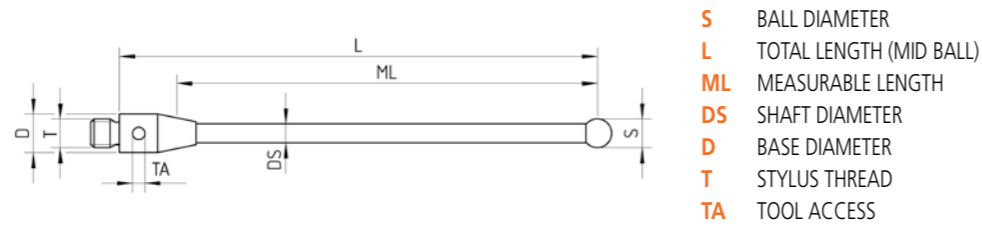
The Mitutoyo styli product line includes over 1.000 styli and accessory components and is constantly increasing to provide the best possible solution to your specific measurement needs with a sophisticated sense of touch.

Longstanding experience and expertise are used to craft our styli product range with a passion right in the heart of Germany.

Mitutoyo, for measurably better results.

M  
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## Stylus Terminology



- S** BALL DIAMETER
- L** TOTAL LENGTH (MID BALL)
- ML** MEASURABLE LENGTH
- DS** SHAFT DIAMETER
- D** BASE DIAMETER
- T** STYLUS THREAD
- TA** TOOL ACCESS

### L Stylus length

Ranging from the bottom face of the base to the ball centre.

Please note that other styli manufacturers sometimes specify length L from ball end to base bottom.

### ML Measurable length

Defines the length of penetration of the stylus, measured from the ball centre to the point where the base or shaft would touch the workpiece.

## Basic recommendations for stylus configurations

### As short as possible

A long stylus is more likely to bend under contact force which results in touch trigger variation. Therefore, a short stylus will give the best results.

When using longer styli configurations, always check for stability.

### Large ball sizes

In order to reduce the risk of triggering the probe system with the stylus shaft, a large ball with a big shaft clearance is of advantage.

Additionally, large ball styli perform a mechanical filter function on the workpiece surface. Due to their size, they have hardly any impact on the surface's fine structure, thus eliminating measurement variations. Additionally, a stylus ball chosen too small, can non-desirably reproduce a rough surface structure when performing a surface scan.

### Minimum number of components

Each joint bears the potential of adding a bending point to the stylus and therefore adding to the measurement error. In order to reduce this risk, it is better to keep the number of components as low as possible.

### Maximum permissible weight

When preparing the styli configuration for your set-up, make sure to keep within the maximum permissible weight of the probing system as stated by the manufacturer for the best measurement results.

### Keep it clean

When connecting stylus components, carefully check contact surfaces for defects and dirt. Dirt and defects on the contact surface can offset the angular position of the stylus configuration.

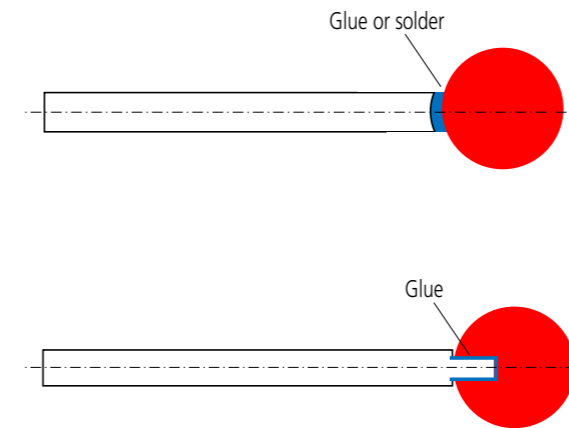
It is important to regularly check styli balls for wear, other defects and contamination too, as these will lead to measurement errors.

To avoid errors based on contamination, Mitutoyo recommends the regular use of the **StyliCleaner**. (Page 83)

### Probe system compatibility

Our styli products are fully compatible to any manufacturer's probe system. Still you need to keep within the manufacturer's set ranges of stylus length and mass to avoid measurement errors or damage. Therefore, please thoroughly check the specification of your probe head system to always make sure, the chosen stylus is within the correct range of length and mass for best possible results.

## Stylus Tip Bonding



There are two basic ways of bonding the styli ball with the shaft.

### Spherical cup

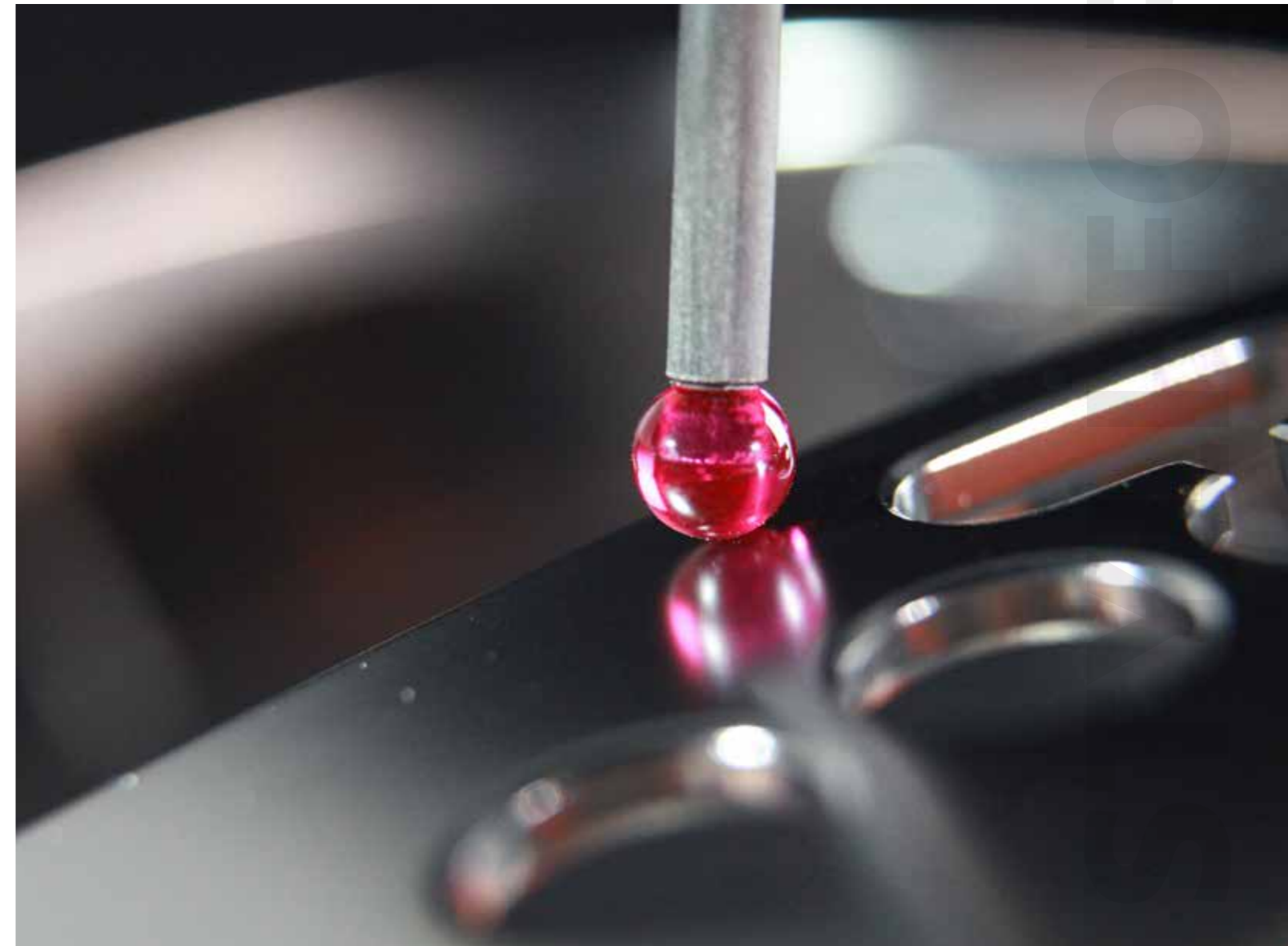
The stylus ball can either be bonded by gluing it into the cup or it can be attached by means of hard soldering.

The smaller the stylus tip, the less surface for gluing is available. Therefore it is not recommended for styli tips below 1,0 mm. The same applies for larger stylus tips with small diameter shafts. Hardsoldering is the bonding method of choice for these products.

Hard soldering is also the best bonding method for styli that are used in manufacturing machines where they are exposed to various cooling liquids as these chemicals could harm the glue connection. It is also used for connecting diamond balls with the shaft.

### Spigot

A spigot connection offers a bigger surface for the glue and therefore can supply a better connection when required.





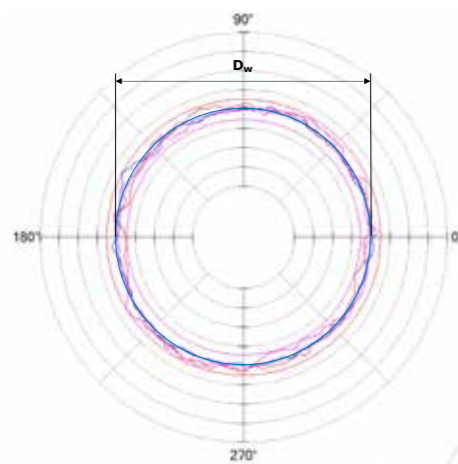
# Stylus Tip Properties

## Diameter and form deviations

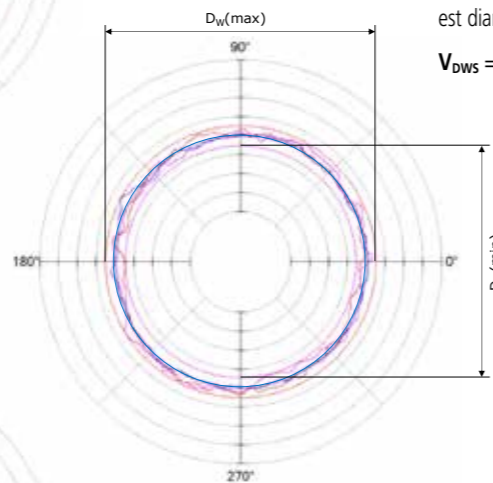
Mitutoyo exclusively uses Grade 5 balls for the best measuring results. Higher number class balls with higher variations in diameter and spherical shape can result in increased measurement errors.

For calibration purposes or measurements of the highest accuracy, class 3 balls are recommended, which are available on request.

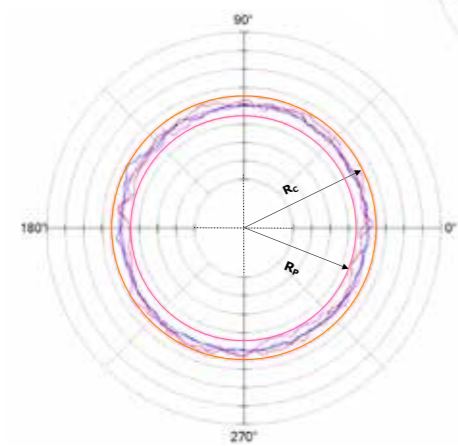
Grade	Nominal dimension $D_w$	Deviation limit of $D_w$	Ball Ø Variation $V_{DWS}$	Sphere shape deviation $t_{DWS}$	Surface roughness $R_a$
	up to	max.	max.	max.	max.
unit	mm	$\mu\text{m}$	$\mu\text{m}$	$\mu\text{m}$	$\mu\text{m}$
3	12,7	$\pm 5,32$	0,08	0,08	0,010
5	12,7	$\pm 5,63$	0,13	0,13	0,014
10	25,4	$\pm 9,75$	0,25	0,25	0,020
16	25,4	$\pm 11,4$	0,40	0,40	0,025



**Nominal ball dimension  $D_w$**   
Represents the ball diameter



**Ball diameter variation  $V_{DWS}$**   
Difference between largest and smallest diameter of the ball.  
 $V_{DWS} = D_w(\text{max}) - D_w(\text{min})$

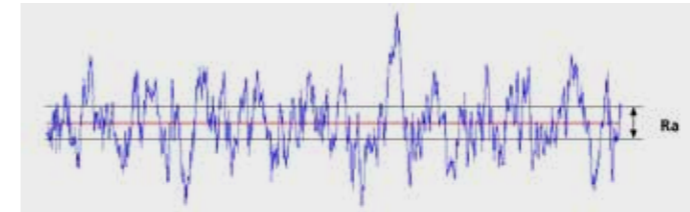


**Sphericity deviation,  $t_{DWS}$**   
The greatest radial distance in any radial plane between a sphere circumscribed around the ball surface and any point on the ball surface.  
 $R_c$  = Radius of ball circumference  
 $R_p$  = Smallest radius  
Deviation from spherical form  
 $t_{DWS} = R_c - R_p$

# Stylus Tip Properties

## Surface roughness $R_a$

Arithmetical mean roughness value: The arithmetical mean of the absolute values of the profile deviations (Z) from the mean line of the roughness profile.



# Stylus Tip materials

## Ruby stylus balls



As the second hardest of all probe element materials, ruby is the perfect all-rounder when it comes to manufacturing spherical contact points that must be highly resistant to wear. Contact points made of ruby have been used as tried and tested equipment for most standard applications for decades.

The low specific density of ruby, as compared to other styli ball materials, enables the mass of the stylus tip to be kept as small as possible.

Only few applications require the use of other stylus ball materials:

The adhesive wear of aluminum particles on ruby balls when scanning aluminum, makes it a requirement to change to silicon nitride balls or diamond coated balls as these materials do not support the build up of aluminum particles on the surface. Diamond coated balls can be chosen as the ball material with the highest last.

The abrasive wear on ruby balls, when performing cast iron scans requires a change to zirconium oxide as the zirconium oxide compound material provides the right wear resistance. Alternatively diamond coated balls can be chosen.

Coatings with a high surface hardness create excessive wear on ruby ball styli. Diamond coated and solid diamond balls exclusively provide the right wear resistance for a successful measurement result.

Heat treated stainless steels, carbide metals and other materials with a high surface hardness and/or an abrasive character of the surface.

Ruby styli wear out fast on these hard to machine materials, so diamond coated styli balls are the best choice.

STYLI FOR CMM

STYLI FOR CMM

## Stylus Tip Properties

### Stylus Tip materials

#### Silicon nitride styli balls



Silicon nitride is extremely hard and superbly wear-resistant, with the least surface roughness of all ball materials. Specific advantage: aluminum is not attracted by silicon nitride and therefore the aluminum particles do not build up on the silicon nitride surface.

Scanning of steel materials with silicon nitride ball styli must be avoided, as abrasive wear will significantly modify the ball shape.

#### Zirconium oxide stylus balls



Because of the specific surface properties of contact points made of zirconium oxide - a ceramic compound - they are acknowledged as the best choice for aggressive scanning of abrasive surfaces, such as workpieces made of cast iron. The compound structure of zirconium oxide provides the right wear resistance to suit the task.

#### Solid diamond and diamond coated stylus balls



Reliable measurements on modern, wear resistant coatings with a high surface hardness are impossible without the use of Diamond styli.

With coating methods like PVD CVD DLC, a surface hardness as high as 3500 HV or higher can easily be reached, while ruby material possesses a hardness of 2300HV. Instant abrasive wear causes the stylus to flatten out in the first measurement cycle.



Diamond styli outlast ruby ball styli in everyday in any application use as they are extremely wear resistant. They are not subject to the adhesion of material particles when scanning for e.g., aluminium or titanium components and therefore, last even much longer than silicon nitride ball styli.

Diamond styli can be seen as a long-term investment, that will pay back the higher initial prices. The black color of diamond coated balls is caused by the silicon carbide ball that is used as a base for the coating. Different to diamond coated balls, solid diamond balls can be manufactured in diameters well below 1,0 mm.

## Stylus Tip Properties

### Wear

In tactile CMM measurement, it is to be distinguished between touch trigger probe systems and scanning probe systems. Especially wear behaviour during contact scan applications is different depending on the workpiece material.

It is to be differentiated between abrasive wear and adhesive wear.

Both types of wear result in a change of the ball shape which leads to errors in the measurement.

**Abrasive wear** - Abrasive wear of styli balls is caused by sliding a softer stylus ball over a harder, rough workpiece surface. Most common abrasive wear defects are flattened balls and scratches.

**Adhesive wear** - Adhesive wear occurs when the atomic bonding forces in the contact zone of stylus ball and workpiece are stronger than the one in the workpiece.

Workpiece material particles connect to and build up on the stylus ball circumference.

The amount of wear depends on different factors:

- Stylus ball material properties
- Workpiece material properties
- Surface roughness
- Contact force of the probing system
- Scanning distance
- Scanning speed
- Contact area size of the stylus ball



Three applications expose the styli ball to **abrasive wear** the most:

#### 1. Cast iron

Abrasive wear is typically found when scanning cast iron with ruby ball styli. Cementite and silicon components in the cast iron are mainly responsible for the effect. For this type of application, there is choice of two ball materials: **Zirconium oxide** and **diamond coated balls**.

The alumina toughened **zirconium oxide balls** have a high resistance against mechanical influences, while the extremely resistant **diamond coated balls** will last longest by far when scanning cast iron. Same as ruby balls, silicon nitride balls should be avoided when scanning cast iron, as they would wear out in next to no time.

#### 2. Wear resistant coatings with a high surface hardness

These coated workpieces are impossible to measure without the use of **diamond coated styli balls**. With coating methods like PVD CVD DLC, a surface hardness as high as 3500 HV or higher can easily be reached, while ruby material possesses a hardness of 2300HV. Instant abrasive wear causes the stylus to flatten out, often in the first measurement cycle.

#### 3. Heat treated stainless steels, carbide metals and other materials with a high surface hardness and/or an abrasive character of the surface.

Ruby styli wear out fast on these hard to machine materials, so diamond coated styli balls are the best choice.

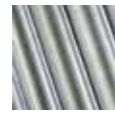
Adhesive wear occurs for e.g., when scanning aluminum with a ruby ball stylus. A significant amount of aluminum particles builds up on the ruby surface, cause a change in the ball shape and leaving erroneous scanning results. Again, there is choice of two materials. **Silicon nitride** styli balls avoid the adhesive build up on the ball surface and therefore the measurement results are not affected. This effect can also occur on titanium and titanium alloys. Anodizing of the aluminium component changes the interaction with the stylus tip. Adhesive wear does not show anymore and the scanning application can be carried out with a ruby stylus tip.

**Diamond coated balls** will again outlast the silicon nitride balls by far.

Especially when approaching scanning applications, it is significant to regularly check the styli balls for symptoms of wear. Diamond coated styli can be seen as a long-term investment that will pay back the higher initial prices.

## Shaft and base materials

### Steel



Non-magnetic stainless-steel components for styli are used for shafts and bases alike. Styli with a length of less than 30mm are often made with one piece base-shaft bodies to offer the best flexural rigidity/weight ratio, which would be reduced by an additional base-shaft joint.

### Titanium



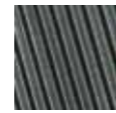
Titanium has relatively low density while having good flexural rigidity and thermal stability. It is the material of choice for bases, end pieces and extensions, when attempting to save weight while maintaining a good stiffness.

### Carbon fibre composite shafts



The high-quality compound material with a thermal expansion coefficient of virtually zero is also very lightweight and extremely stiff, making it particularly suitable for the manufacture of long styli. It is used as solid and tube material.

### Tungsten carbide



Tungsten carbide shafts are used to best effect of their high flexural rigidity for styli with balls smaller than 1mm a length of up to 50mm. The higher density of tungsten carbide restricts often higher styli length due to the specifications of the styli shaft.

### Aluminum alloy



As a lightweight material aluminum is used for styli extensions and other larger sized styli components. Due to the significant thermal expansion when exposed to higher ambient temperatures, aluminum styli components are best used in thermally stable and air-conditioned environments.

### Ceramic shafts



Ceramic offers a low thermal expansion/density ratio, while serving a slightly higher flexural rigidity than steel. Therefore, it is an ideal medium for styli shafts when steel is too heavy. It is available from a diameter of 2mm, and therefore serves styli balls from 2,5mm. In a collision, ceramic acts as protective to the styli shaft, as it will break when it is exposed to a higher force. It is used as solid and tube material.

## Shaft and base materials

### Properties

When choosing a styli or composing a styli configuration, thermal expansion, flexural rigidity and mass properties require provision.

### Thermal expansion

When using styli or extensions with long stems, the measuring staff must bear in mind the thermal expansion of the materials used when ambient temperatures change. When using materials with a high thermal length increase, significant measurement errors might be the consequence. This is especially valid in production environments.

The material's CLTE coefficient of linear thermal expansion  $\alpha$  is defined as the relative expansion (also called strain) divided by the change in temperature.

$$\alpha_L = \frac{1}{L} \frac{dL}{dT}$$

$\Delta l$  Length change       $l_1$  Length change  
 $\alpha * 10^{(-6)} K$  coefficient of linear thermal expansion  
 $\Delta l = l_1 * \alpha * \Delta \vartheta$        $\Delta \vartheta$  Temperature change

### Flexural rigidity

Flexural rigidity is the product of the modulus of elasticity and the 2nd moment of area. It describes the ability of a body to withstand elastic deformation when a force is applied. Especially when using long styli and/or extensions, the equipment must be manufactured from extremely stiff materials. Measuring forces occur while probing. Excessive bending of the styli or extension can cause erroneous measurement results.

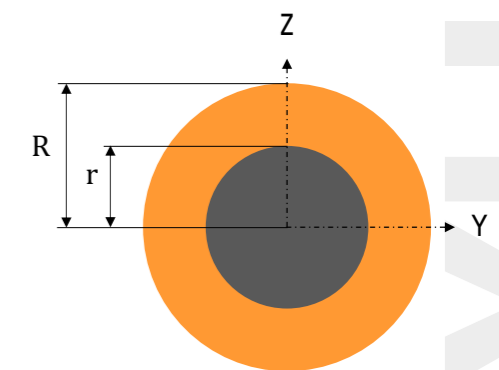
As the actual flexural rigidity depends on the individual cross-sectional area of the styli component, the E-modulus of the general material is widely used to estimate this property. For the actual calculation, it is necessary to differentiate between solid bar and tube materials. The SI unit for the 2nd moment of area is (mm)<sup>4</sup>, while the Flexural Rigidity is expressed in N/mm<sup>2</sup>.

### 2nd Moment of Area

**Circle**      2<sup>nd</sup> moment of area I       $I_Y = I_Z = \frac{\pi}{4} * (r^4)$

**Circular ring**      2<sup>nd</sup> moment of area I       $I_Y = I_Z = \frac{\pi}{4} * (R^4 - r^4)$

**Flexural rigidity** =  $E * I$  N/mm<sup>2</sup>



STYLIFOR CMM

STYLIFOR CMM



# Shaft and base materials

## Mass

Apart from the maximum usable length, the mass of the stylus configuration is to be observed in regard of the specification of the used probing system. A weight too high could cause false triggers of the measurement system.

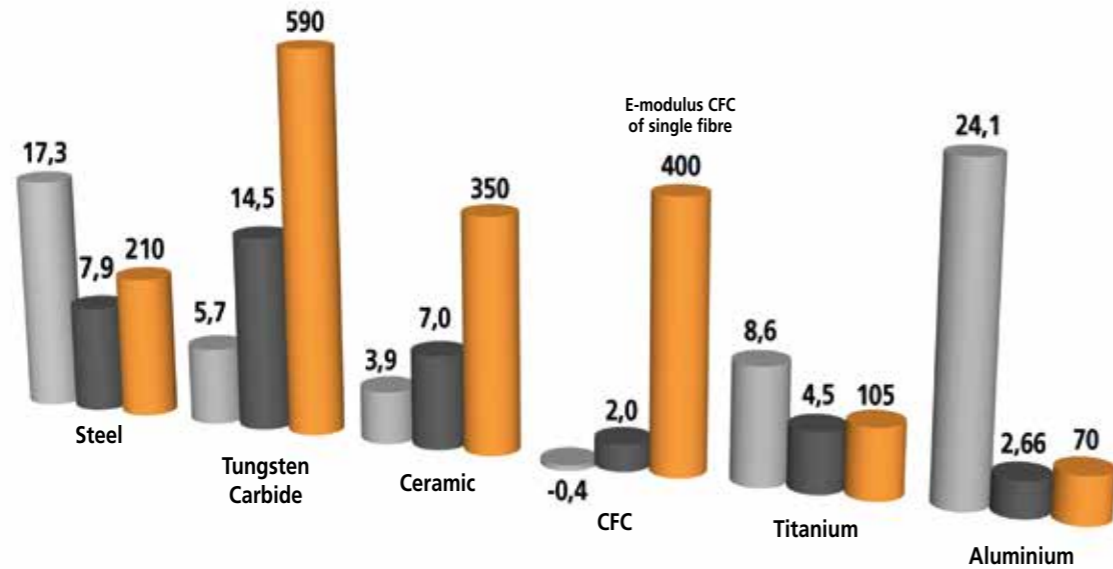
In order to easily specify mass at different styli length and diameters and to give a preliminary estimation when considering a stylus component, the material density is the parameter used in stylus technology.

The SI unit used is g/cm<sup>3</sup>.

$$p = \frac{m}{V} \quad p \text{ volumetric mass density} \quad m \text{ Mass} \quad V \text{ Volume}$$

To find the mass, we need to convert the equation to **m**.

$$m = p * V \quad \text{Volume of cylinder : } V = v * \pi * r^2 * \text{length}$$



- CLTE Coefficient of Linear Thermal Expansion of the material  $\alpha 10^{(-6)K}$
- Density g/cm<sup>3</sup>
- E-modulus GPa 10<sup>9</sup>N/m<sup>2</sup>

# Stylus Material Properties

## Stylus Tip Properties

Properties	Remark	Coating thickness	Chemical composition	Purity	Grade DIN 5401	Sphere shape deviation $t_{0,05}$	Density	Flexural rigidity	Elasticity modulus 10 <sup>9</sup> N/m <sup>2</sup>	CLTE $\alpha$ Thermal expansion	Hardness	Fracture toughness KiC
Unit				%		nm	g/cm <sup>3</sup>	MPa	GPa	10 <sup>(-6)</sup> K	HV	MPa√m
Ruby			Al <sub>2</sub> O <sub>3</sub> /Cr <sub>2</sub> O <sub>3</sub>	99	Grade 5	130	3,99	400-700	430	5,4	2300	1
Aluminum oxide			Al <sub>2</sub> O <sub>3</sub>	99,8	Grade 5	130	3,86	350	350	7,8	1900	3,5
Silicon nitride	Hot isostatic pressed HIP HP-Si <sub>3</sub> N <sub>4</sub>		Si <sub>3</sub> N <sub>4</sub>	>90	Grade 5	130	3,2	850	320	3,2	1600	7
Zirconium oxide	ATZ Alumina toughened Zirconia		ZrO <sub>2</sub> / Al <sub>2</sub> O <sub>3</sub> / Y <sub>2</sub> O <sub>3</sub>	76/20/4	Grade 5	130	5,5	2400	220	9	1400	10
Diamond coated	Nanocrystal-line diamond coating CVD	25 $\mu$ m	Ball base SiC	>93	Grade 10 Grade 5*	250 130*			700	1,1	7000	5
Solid diamond	Monocrystal-line diamond			100	Grade 10	250	3,52 gr/cm <sup>3</sup>		1050	1 at 300K 4,4 at 1000K	7000-12.000	5

## Shaft and base materials

Properties	Chemical composition	Purity	Density	Elasticity modulus 10 <sup>9</sup> N/m <sup>2</sup>	CLTE $\alpha$ Thermal expansion	Hardness	Fracture toughness KiC
Unit		Gew. %	g/cm <sup>3</sup>	GPa	10 <sup>(-6)</sup> K	HV	MPa√m
Carbide	WC CO	WC 90%	14,45	590	5,7	1620 HV30	12,4
Carbon fibre composite			1,5-2,0	400	-0,4	(ca.100 HBW 5/62,5)*	
Ceramic	Al <sub>2</sub> O <sub>3</sub>	99,7	7,0	350	3,9	1900 HV30	3,5
Steel	1.4305		7,90	210	17,3	250 HV	
Titanium	Fe C N O H Ti	99,34	4,51	105	8,7	300 HV	13

\*alternatively to for e.g., ca. 100-120 HR 5/40

# STYLI KITS

M2  
M3  
M5



# STYLI FOR CIVIL





# Styli Kits M2



## Styli Kit M2 Starter



Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
K651376	<b>Styli Kit M2 Starter</b>					
K651012	Stylus, stainless steel	ruby	M2	1	1	10
K651019	Stylus, stainless steel	ruby	M2	1	2	20
K651021	Stylus, stainless steel	ruby	M2	1	3	20
K651022	Stylus, stainless steel	ruby	M2	1	4	20
K651038	Extension, stainless steel		M2	1		10
K651039	Extension, stainless steel		M2	1		20
K651223	Pin spanner ø 1.2 mm			2		23
<b>Total qty.</b>				<b>8</b>		

## Styli Kit M2 Addition



Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
K651382	<b>Styli Kit M2 Addition</b>					
K651022	Stylus, stainless steel	ruby	M2	2	4	20
K651021	Stylus, stainless steel	ruby	M2	1	3	20
K651019	Stylus, stainless steel	ruby	M2	3	2	20
K651012	Stylus, stainless steel	ruby	M2	5	1	10
K651058	5-way Stylus holder		M2	1		7,5
K651040	Extension, stainless steel		M2	1		30
K651039	Extension, stainless steel		M2	1		20
K651038	Extension, stainless steel		M2	2		10
K651223	Pin spanner ø 1.2 mm			1		
<b>Total qty.</b>				<b>17</b>		



# STYLI KITS M2

# Styli Kits M2

## Styli Kit M2 Basic 1



## Styli Kit M2 Basic 2



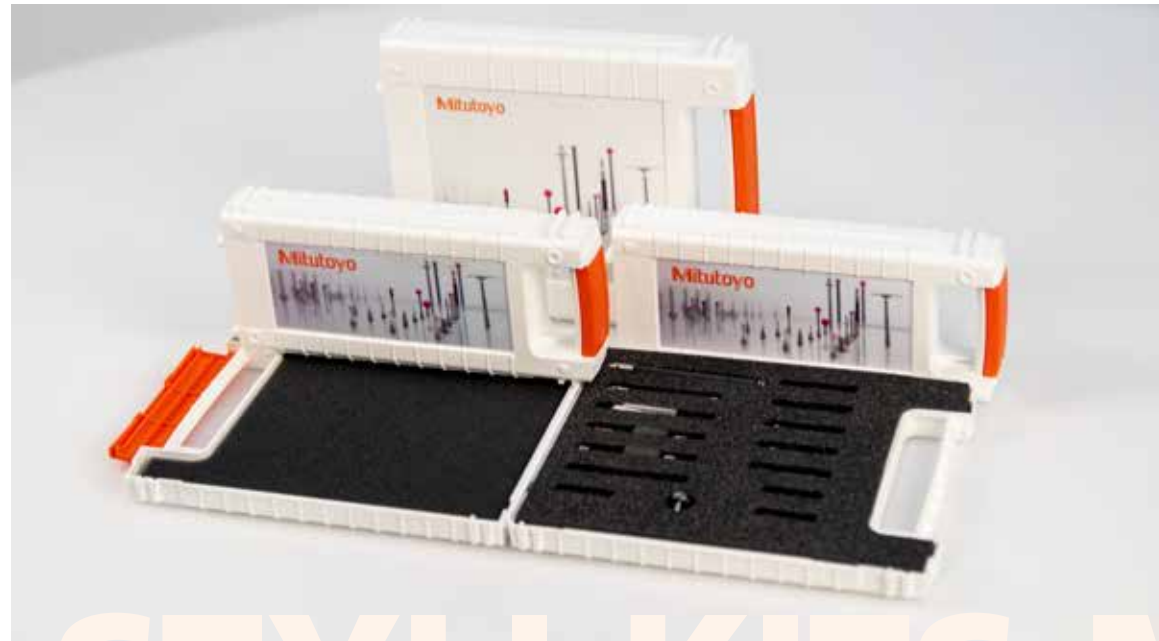
Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
<b>K651377</b>	<b>Styli Kit M2 Basic 1</b>					
K651012	Stylus, stainless steel	ruby	M2	1	1	10
K651014	Stylus, stainless steel	ruby	M2	1	2	10
K651019	Stylus, stainless steel	ruby	M2	1	2	20
K651016	Stylus, stainless steel	ruby	M2	1	3	10
K651021	Stylus, stainless steel	ruby	M2	1	3	20
K651022	Stylus, stainless steel	ruby	M2	1	4	20
K651054	5-way Stylus	ruby	M2	1	2	30
K651031	Cylinder Stylus	steel	M2	1	3	13
K651083	Disc Stylus	steel	M2	1	18	7,5
K651085	Disc Stylus	steel	M2	1	6	10
K651062	Adapter		M2-M3	1		7
K651038	Extension, stainless steel		M2	1		10
K651039	Extension, stainless steel		M2	1		20
K651223	Pin spanner ø 1.2 mm			2		
<b>Total qty.</b>				<b>15</b>		

Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
<b>K651354</b>	<b>Styli Kit M2 Basic 2</b>					
K651235	Stylus, tungsten carbide	ruby	M2	1	0,5	20
K651249	Stylus, tungsten carbide	ruby	M2	1	1	20
K651019	Stylus, stainless steel	ruby	M2	1	2	20
K651347	Stylus CFC	ruby	M2	1	4	50
K651348	Stylus CFC	ruby	M2	1	5	50
K651349	Stylus CFC	ruby	M2	1	6	50
K651058	5-way Stylus holder			1		7,5
K651350	Extension CFC		M2	1		40
K651351	Extension CFC		M2	1		50
K651352	Extension CFC		M2	1		70
K651353	Extension CFC		M2	1		90
K651223	Pin spanner ø 1.2 mm			1		
<b>Total qty.</b>				<b>12</b>		

## Styli Kit M2 Active



Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
K651438	<b>Styli Kit M3 Active 2</b>					
K651276	Stylus, tungsten carbide	ruby	M2	1	0,5	10
K651248	Stylus, tungsten carbide	ruby	M2	1	1	20
K651012	Stylus, stainless steel	ruby	M2	1	1	10
K651019	Stylus, stainless steel	ruby	M2	1	2	20
K651014	Stylus, stainless steel	ruby	M2	1	2	10
K651016	Stylus, stainless steel	ruby	M2	1	3	10
K651021	Stylus, stainless steel	ruby	M2	1	3	20
K651017	Stylus, stainless steel	ruby	M2	1	4	10
K651022	Stylus, stainless steel	ruby	M2	1	4	20
K651018	Stylus, stainless steel	ruby	M2	1	5	10
K651058	5-way Stylus holder, rotatable		M2	1		
K651100	Knuckle joint, stainless steel		M2	1		
K651038	Extension, stainless steel		M2	1		10
K651039	Extension, stainless steel		M2	1		20
K651040	Extension, stainless steel		M2	1		30
K651037	Extension, stainless steel		M2	1		5
K650134	Hexagon screwdriver 0,9mm			1		
K651223	Pin spanner ø 1.2 mm			2		
<b>Total qty.</b>				<b>19</b>		



STYLI KITS M2

# Styli Kits M2

## Styli Kit M2 Professional



Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
<b>K651379</b>	<b>Styli Kit M2 Professional</b>					
K651233	Stylus, tungsten carbide	ruby	M2	1	0,3	10
K651236	Stylus, tungsten carbide	ruby	M2	1	0,7	10
K651248	Stylus, tungsten carbide	ruby	M2	1	1	20
K651276	Stylus, stainless steel	ruby	M2	2	0,5	10
K651012	Stylus, stainless steel	ruby	M2	2	1	10
K651013	Stylus, stainless steel	ruby	M2	1	1,5	10
K651014	Stylus, stainless steel	ruby	M2	3	2	10
K651019	Stylus, stainless steel	ruby	M2	5	2	20
K651015	Stylus, stainless steel	ruby	M2	1	2,5	10
K651020	Stylus, stainless steel	ruby	M2	2	2,5	20
K651016	Stylus, stainless steel	ruby	M2	1	3	10
K651021	Stylus, stainless steel	ruby	M2	2	3	20
K651017	Stylus, stainless steel	ruby	M2	3	4	10
K651022	Stylus, stainless steel	ruby	M2	3	4	20
K651018	Stylus, stainless steel	ruby	M2	2	5	10
K651024	Stylus, stainless steel	ruby	M2	2	6	10
K651025	Stylus, stainless steel	ruby	M2	1	8	11
K651052	4-way Stylus	ruby	M2	1	1	10
K651053	5-way Stylus	ruby	M2	1	2	18
K651054	5-way Stylus	ruby	M2	1	2	30
K651030	Cylinder Stylus	steel	M2	1	1,5	11
K651031	Cylinder Stylus	steel	M2	1	3	13
K651032	Cylinder Stylus	ruby	M2	1	2	20
K651097	Tip Stylus	steel	M2	1		15
K651098	Tip Stylus	tungsten carbide	M2	1		10
K651083	Disc Stylus	steel	M2	1	18	7,5
K651084	Disc Stylus	steel	M2	1	25	7,5
K651085	Disc Stylus	ruby	M2	1	6	10
K651090	Hollow ball Stylus	ceramic	M2	1		11
K651062	Adapter		M2-M3	1		7
K651058	5-way Stylus holder		M2	1		7,5
K651037	Extension, stainless steel		M2	4		5
K651038	Extension, stainless steel		M2	2		10
K651039	Extension, stainless steel		M2	2		20
K651040	Extension, stainless steel		M2	2		30
K651041	Extension, stainless steel		M2	2		40
K651223	Pin spanner ø 1.2 mm			2		
<b>Total qty.</b>				<b>61</b>		



# Styli Kits M2/M3

## Styli Kit M2/M3

### MiStar

Styli and extensions



Code number - Stylus tip material		Description	Thread	qty.	ø S mm	L mm
Ruby	Silicon nitride					
<b>Kit order number</b>						
K651445	K650371	<b>Styli Kit M2/M3 MiStar</b>				
K651256	K651860	Stylus, tungsten carbide	M2	1	1	27,5
K651258	K651862	Stylus, tungsten carbide	M2	2	2	30
K651435	K651435	Stylus SiN, tungsten carbide	M3	1	3	40
K651347	K651934	Stylus, CFC	M2	5	4	50
K651101	K651101	Knuckle/swivel joint, stainl. steel	M2	1		17,2
K651409	K651409	Adapter, CFC	M3-M2	1		30
K651058	K651058	5-way stylus holder, rotatable	M2	1		7,5
K651223	K651223	Pin spanner ø 1.2 mm		2		23
<b>Total qty.</b>				<b>14</b>		

## Styli Kit M3 Starter

Steel styli and extensions



Code number - Stylus tip material			Description	Thread	qty.	ø S mm	L mm
Ruby	Silicon nitride	Zirconium oxide					
<b>Kit order number</b>							
K651380	K650372	K650373	<b>Styli Kit M3 Starter</b>				
K651146	K651960	K651964	Stylus, stainless steel	M3	1	1	21
K651147	K651561	K651566	Stylus, stainless steel	M3	1	2	21
K651148	K651961	K651965	Stylus, stainless steel	M3	1	3	21
K651151	K651910	K651911	Stylus, stainless steel	M3	1	4	31
K651152	K651963	K651968	Stylus, stainless steel	M3	1	5	33,5
K651157	K651157	K651157	Extension, stainless steel	M3	1		20
K651159	K651159	K651159	Extension, stainless steel	M3	1		35
K651223	K651223	K651223	Pin spanner ø 1.2 mm		2		
<b>Total qty.</b>					<b>9</b>		

STYLI KITS M2

# Styli Kits M3



## Styli Kit M3 CRP 1

for the use with SP25M/SM25-1/SH25-1  
stylus tip 3-5mm  
stylus stem carbon fibre composite  
base stainless steel



## Styli Kit M3 CRP 2

for the use with SP25M/SM25-2/SH25-2  
stylus tip 5-6mm  
stylus stem carbon fibre composite  
base stainless steel



## Styli Kit M3 CRP 3

for the use with SP25M/SM25-3/SH25-3  
stylus tip 5-8mm  
stylus stem carbon fibre composite  
base stainless steel



Code number - Stylus tip material							
Ruby	Silicon nitride	Zirconium oxide	Description	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>							
K651318	K650354	K650355	<b>Styli Kit M3 CRP 1</b>				
K651297	K650265	K650266	Stylus, CFC	M3	1	3	21
K651298	-	-	Stylus, CFC	M3	1	4	21
K651301	K651301	K650267	Stylus, SiN CFC	M3	1	4	21
K651299	K650268	K650269	Stylus, CFC	M3	1	4	31
K651300	K650300	K650348	Stylus, CFC	M3	1	4	40
K651303	K650349	K650350	Stylus, CFC	M3	1	5	50
K651223	K651223	K651223	Pin spanner ø 1.2 mm	M3	1		
<b>Total qty.</b>					7		

Code number - Stylus tip material							
Ruby	Silicon nitride	Zirconium oxide	Description	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>							
K651319	K650366	K650367	<b>Styli Kit M3 CRP 2</b>				
K651302	-	-	Stylus, CFC	M3	1	5	21
K651304	K651304	K650351	Stylus, SiN CFC	M3	1	5	21
K651303	K650349	K650350	Stylus, CFC	M3	1	5	50
K651305	K650352	K650353	Stylus, CFC	M3	1	6	50
K651306	K651577	K651924	Stylus, CFC	M3	1	6	75
K651223	K651223	K651223	Pin spanner ø 1.2 mm		1		
<b>Total qty.</b>					6		

Code number - Stylus tip material							
Ruby	Silicon nitride	Zirconium oxide	Description	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>							
K651320	K650368	K650370	<b>Styli Kit M3 CRP 3</b>				
K651302	-	-	Stylus, CFC	M3	1	5	21
K651304	K651304	K650351	Stylus SiN, CFC	M3	1	5	21
K651303	K650349	K650350	Stylus, CFC	M3	1	5	50
K651306	K651577	K651924	Stylus, CFC	M3	1	6	75
K651309	K650273	K650276	Stylus, CFC	M3	1	8	100
K651223	K651223	K651223	Pin spanner ø 1.2 mm		1		
<b>Total qty.</b>					6		

## Styli Kit M3 Basic



Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
K651381	<b>Styli Kit M3 Basic</b>					
K651146	Stylus, stainless steel	ruby	M3	1	1	21
K651147	Stylus, stainless steel	ruby	M3	5	2	21
K651148	Stylus, stainless steel	ruby	M3	1	3	21
K651151	Stylus, stainless steel	ruby	M3	3	4	31
K651152	Stylus, stainless steel	ruby	M3	1	5	31
K651172	Disc Stylus	hardened steel	M3	1	12,7	31
K651174	Disc Stylus	hardened steel	M3	1	63,5	4
K651169	5-way Stylus holder, rotatable		M3	1		13
K651180	Knuckle joint , stainless steel		M3	1		11,5
K651170	Adapter, stainless steel		M3-M2	1		5
K651157	Extension , stainless steel		M3	1		20
K651159	Extension , stainless steel		M3	1		55
K651223	Pin spanner ø 1.2 mm			2		
K650135	Hexagon screwdriver 0,9mm			1		
<b>Total qty.</b>				<b>21</b>		

## Styli Kit M3 Basic 2



Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
K651382	<b>Styli Kit M3 Basic 2</b>					
K651235	Stylus, tungsten carbide	ruby		1	0,5	20
K651249	Stylus, tungsten carbide	ruby		1	1	20
K651019	Stylus, stainless steel	ruby		1	2	20
K651347	Stylus, CFC	ruby		1	4	50
K651348	Stylus, CFC	ruby		1	5	50
K651349	Stylus, CFC	ruby		1	6	50
K651058	5-way Stylus holder			1		7,5
K651350	Extension, CFC			1		40
K651351	Extension, CFC			1		50
K651352	Extension, CFC			1		70
K651353	Extension, CFC			1		90
K651223	Pin spanner ø 1.2 mm			1		
<b>Total qty.</b>				<b>12</b>		
K650135	Hexagon screwdriver 0,9mm			1		
<b>Total qty.</b>				<b>21</b>		

## Styli Kits M3



### Styli Kit M3 Small Features



Code number	Description	Stylus tip material	Thread	qty.	ø S mm	L mm
<b>Kit order number</b>						
K651412	<b>Styli Kit M3 Small Features</b>					
K651276	Stylus, tungsten carbide	ruby	M2	1	0,5	10
K651236	Stylus, tungsten carbide	ruby	M2	1	0,7	10
K651012	Stylus, stainless steel	ruby	M2	1	1	10
K651248	Stylus, tungsten carbide	ruby	M2	1	1	20
K651019	Stylus, stainless steel	ruby	M2	4	2	20
K651170	Adapter		M3-M2	1		5
K651058	5-way Stylus holder, rotatable		M2	1		8
K651039	Extension, steel		M2	1		20
K651223	Pin spanner ø 1.2 mm			2		23
<b>Total qty.</b>				<b>13</b>		

## Styli Kits M5





















### Styli Kit M5 SP80



Code number - Stylus tip material		Description	Thread	qty.	ø S mm	L mm
Ruby	Silicon nitride					
<b>Kit order number</b>						
K650374	K650375	Styli kit M5 SP80				
K651487	K650261	Stylus, tungsten carbide	M5	2	3	30
K651502	K650264	Stylus, tungsten carbide	M5	2	5	50
K651513	K650262	Stylus, CFC	M5	2	8	75
K651523	K650263	Stylus, CFC	M5	2	8	100
K651456	K651456	5-way cube titanium	M5	2		15
K651633	K651633	Extension, stainless steel	M5	2		50
K650302	K650302	Extension, stainless steel	M5	2		100
K650376	K650376	Stylus tool		1		
K650189	K650189	Hexagon screwdriver 2,5mm		2		
K650347	K650347	Pin spanner ø 2,9 mm		2		
<b>Total qty.</b>				<b>19</b>		



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 Straight Styli (442)	 Diamond Coated Styli (29)	 Joints (13)	 Cylinder Styli (15)
 Master Ball (1)	 Machine tool Styli (11)	 Disk Styli (19)	 Tip Styli (5)
 Extensions (70)	 Star Styli (17)	 Screws for Cube (7)	 Tools (3)
 Holders (29)	 Styli for 5-Way Styli (12)	 StyliCleaner (1)	 Styli Kits (18)
 Styli for clamping holder(14)	 Adapters (21)		



## Precise filtering for fast product access

Filter

Thread

M3

Ball Material

Ruby

Ball ø

2

Base material

Stainless steel

Shaft stem material

Carbide

Length

20

Effective length

12.5

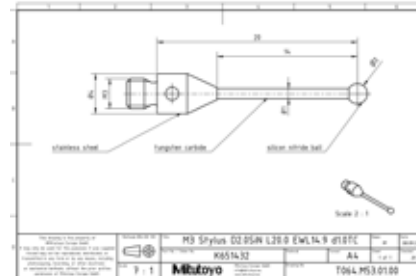
## Product visualization



## Product description

Features	
Description	The adjustable base can be used for adjustment of horizontal height of working position.
Item	M3
Weight (g)	16.4
Application	CMM
Product line	ML-60
Component type	Ball tip component
Length (mm)	30
Length (mm)	30
Thread (mm)	M3

## Downloadable PDF drawing



## Competitor cross reference search

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COATED  
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**M2 M3 M5**

**Compatible to  
any other M5  
probe head  
system**

**STYLI FOR CMM**

# Diamond Styli



Solid diamond and diamond coated balls offer significant advantage over other styli tip materials.

Whether it is because the application demands extreme wear resistance or extreme long last is the requirement, diamond is a perfect choice.

## General specification:

- The ball and stem connection is done by using hard soldering in a protective atmosphere.
- Stem material: carbide
- Styli lengths up to 50mm are currently supported.
- All styli specified with ruby balls and tungsten carbide stems can be replicated with diamond coated balls. (M2, M3, M4 and M5)

## Specification: Solid diamonds

- Available ball diameters are:  $\varnothing 0,3\text{mm}$ ,  $\varnothing 0,6\text{mm}$ ,  $\varnothing 0,8\text{mm}$ ,  $\varnothing 1,0\text{mm}$ ,  $\varnothing 2,0\text{mm}$ ,  $\varnothing 3,0\text{mm}$
- Sphericity deviation Grade 10  $<250\text{ nm}$

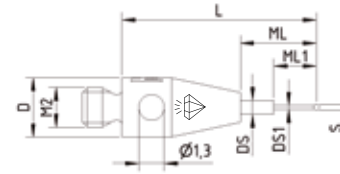
## Specification: Diamond coated balls

- The diamond coating is applied on a silicon nitride ball.
- The black color is still visible through the translucent diamond coat.
- $0,05\text{mm}$  are added to the diameter of the silicon nitride ball.
- Available ball diameters are:  $\varnothing 1,05\text{mm}$ ,  $\varnothing 2,05\text{mm}$ ,  $\varnothing 3,05\text{mm}$ ,  $\varnothing 5,05\text{mm}$ ,  $\varnothing 8,02\text{mm}$
- Sphericity deviation Grade 10  $<250\text{ nm}$
- Sphericity deviation Grade 5  $<130\text{ nm}$  for  $\varnothing 1,05\text{mm}$ ,  $\varnothing 2,05\text{mm}$ ,  $\varnothing 3,05\text{mm}$ ,  $\varnothing 5,05\text{mm}$  on request



# DIAMOND STYLI

# Diamond Styli M2

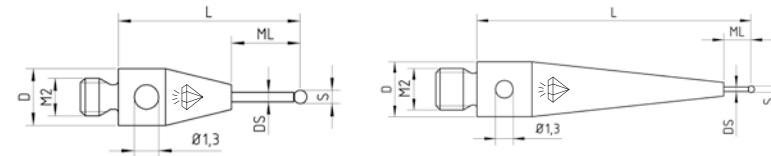


## Stylus M2 carbide, stepped

stem tungsten carbide  
base stainless steel

### Code number – Stylus tip Material

Solid diamond	Diamond coated	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650315		M2	0,3	Grade 10	10	4	2	3	0,7	0,2	0,27
K650316		M2	0,6	Grade 10	20	4		3	1	0,3	0,45



## Stylus M2 carbide

stem tungsten carbide  
base stainless steel

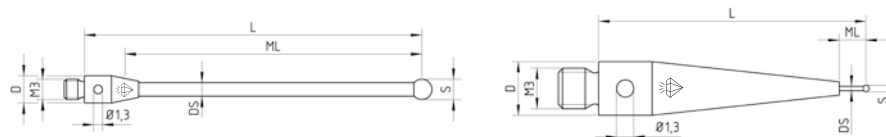
### Code number – Stylus tip Material

Solid diamond	Diamond coating	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
	K650242	M2	1,05	Grade 10	10	6		3	0,7		0,25
	K650243	M2	1,05	Grade 10	20	7		3	0,8		0,5
	K650245	M2	2,05	Grade 10	20	15		3	1		0,45
	K651772	M2	2,05	Grade 10	40	32,5		3	1,5		1,26
	K650250	M2	3,05	Grade 10	20	17		3	1,5		0,72
	K651773	M2	3,05	Grade 10	50	47,5		3	2		2,35
	K650255	M2	5,05	Grade 10	40	40		3	2,5		2,89

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side



# Diamond Styli M3

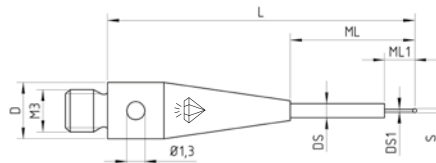


## Stylus M3 stainless steel

stem stainless steel  
base stainless steel

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side

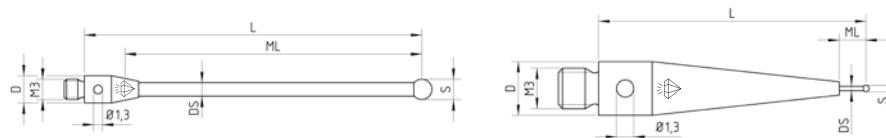
Code number – Stylus tip Material				Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Solid diamond	Diamond coated	Thread	S mm								
	<b>K650259</b>	<b>M3</b>	1,05	Grade 10	21	4		4	0,7		1,05
	<b>K650260</b>	<b>M3</b>	3,05	Grade 10	21	12		4	1,5		0,96



## Stylus M3 carbide, stepped

stem tungsten carbide  
base stainless steel

Code number – Stylus tip Material				Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Solid diamond	Diamond coated	Thread	S mm								
<b>K650317</b>		<b>M3</b>	0,3	Grade 10	21,85	8,85	2,15	4	1	0,2	1,03
<b>K650318</b>		<b>M3</b>	0,6	Grade 10	21,7	8,7	4,3	4	1	0,3	1,07
<b>K650319</b>		<b>M3</b>	1	Grade 10	21,5	8,5	4,7	4	1	0,8	1,05
	<b>K650240</b>	<b>M3</b>	1,05	Grade 10	21,5	8,5	4,5	4	1	0,8	0,99



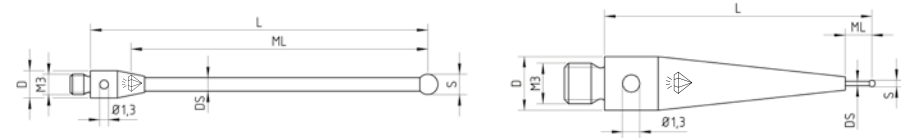
## Stylus M3 carbide

stem tungsten carbide  
base stainless steel

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side

Code number – Stylus tip Material				Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Solid diamond	Diamond coated	Thread	S mm								
	<b>K650244</b>	<b>M3</b>	1,05	Grade 10	10	5		4	0,8		0,53
	<b>K651925</b>	<b>M3</b>	1,05	Grade 10	22	12		4	0,8		0,8
<b>K650320</b>		<b>M3</b>	2	Grade 10	20	12,5		4	1,5		1,08
	<b>K650246</b>	<b>M3</b>	2,05	Grade 10	20	12,5		4	1,5		1,08
	<b>K650247</b>	<b>M3</b>	2,05	Grade 10	30	22,5		4	1,5		1,28
<b>K650294</b>		<b>M3</b>	3	Grade 10	20	15,6		4	1,5		0,97
	<b>K650251</b>	<b>M3</b>	3,05	Grade 10	20	15,5		4	1,5		1,25
	<b>K650252</b>	<b>M3</b>	3,05	Grade 10	50	42,5		4	2		2,49
	<b>K651775</b>	<b>M3</b>	5,05	Grade 10	31	31		4	2		2,01
	<b>K650256</b>	<b>M3</b>	5,05	Grade 10	40	40		4	2		2,49
	<b>K650257</b>	<b>M3</b>	5,05	Grade 10	50	50		4	2		2,98

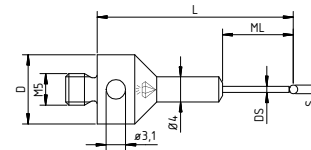
## Diamond Styli M5



### Stylus M5 carbide, stepped

stem tungsten carbide  
base titanium

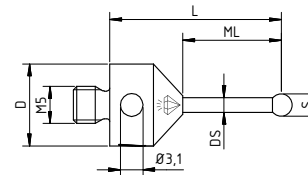
Code number – Stylus tip Material											
Solid diamond	Diamond coated	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650295		M5	0,3	Grade 10	21,65	12,65		11	1	0,2	5,81
K650296		M5	0,6	Grade 10	21,75	12,75		11	1	0,3	5,8
K650297		M5	1	Grade 10	22	13	4,7	11	1	0,8	5,82
	K650241	M5	1,05	Grade 10	22	13	4,7	11	1	0,8	6,39



### Stylus M5 carbide, stepped

stem tungsten carbide  
base titanium

Code number – Stylus tip Material											
Solid diamond	Diamond coated	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
	K650249	M5	2,05	Grade 10	43	18		11	1,5		4,49



### Stylus M5 carbide








stem tungsten carbide  
base titanium

Code number – Stylus tip Material											
Solid diamond	Diamond coated	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650298		M5	2	Grade 10	32,5	23,5		11	1,5		6,31
	K650248	M5	2,05	Grade 10	32,5	23,5		11	1,5		6,82
K650299		M5	3	Grade 10	32	22		11	2		4,45
	K650253	M5	3,05	Grade 10	32	22		11	2		4,29
	K650254	M5	3,05	Grade 10	48,5	38,5		11	2		4,98
	K650258	M5	5,05	Grade 10	47,5	37,5		11	3,5		8,95

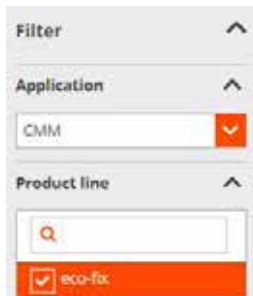
DIAMOND STYLI  
DIAMOND STYLI

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## Clear categories

 Base plates (18)	 Build-up components (60)	 Clamping components (57)	 Adapters (6)
 Positioning and stopper components (68)	 Profile components (21)	 Slider components (6)	 Fixturing kits (30)
 Racks (5)	 Base components (59)		

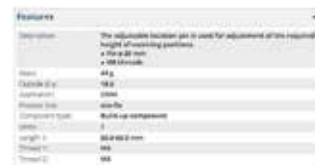
## Filtering function for fast product access



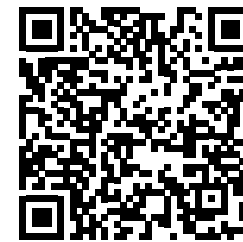
## Product visualization



## Product description



## Drawing



**Mitutoyo fixtures:**  
For measurably better results.

Our CMM fixturing product lines eco-fix, eco-fix<sup>plus</sup> and the multiflex<sup>profile</sup> series ensure that from small and light to large and heavy workpieces, everything can be fixtured and measured with ease.



FIXTURES FOR CMM



# Stylus System Components for Coordinate Measuring Probe Heads

## WITH M2 THREAD

TP20  
TP200  
MH20i

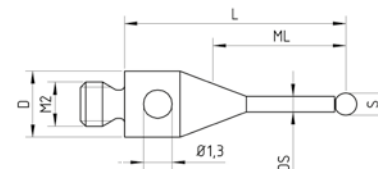
Compatible to any  
other M2 probe head  
system

Please thoroughly check the specification of your probe head system to always make sure, the chosen stylus is within the manufacturers recommended range of length and mass.

Mitutoyo

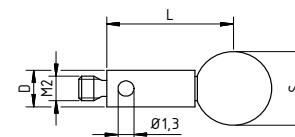
RCMM

# Styli M2



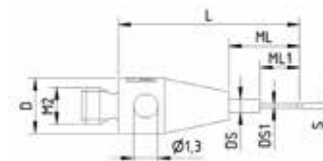
**Stylus M2 steel**  
stem stainless steel  
base stainless steel

Code number – Stylus tip Material		Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Ruby	Silicon nitride										
K651012	K651817	K651830	M2	1	Grade 5	10	4,5	3	0,7		0,23
K651013	K651818	K651831	M2	1,5	Grade 5	10	4,5	3	0,7		0,25
K651014	K651819	K651832	M2	2	Grade 5	10	6	3	1		0,24
K651015	K651820	K651833	M2	2,5	Grade 5	10	6	3	1		0,26
K651016	K651821	K651834	M2	3	Grade 5	10	7,5	3	1,5		0,34
K651017	K651822	K651835	M2	4	Grade 5	10	10	3	1,5		0,42
K651018	K651823	K651836	M2	5	Grade 5	10	10	3	2,5		0,63
K651024	K651824	K651837	M2	6	Grade 5	10	10	3	2,5		0,82
K651025	K651825	K651838	M2	8	Grade 5	11	11	3	2,5		1,49
K651019	K651826	K651839	M2	2	Grade 5	20	14	3	1,4		0,43
K651020	K651827	K651840	M2	2,5	Grade 5	20	14	3	1,4		0,45
K651021	K651828	K651841	M2	3	Grade 5	20	17,5	3	1,5		0,51
K651022	K651829	K651842	M2	4	Grade 5	20	20	3	1,5		0,51
K651324			M2	3	Grade 5	68	60	3	1,5		1,22
K651326			M2	4	Grade 5	68	68	3	2		1,82



**Stylus M2 steel**  
stem stainless steel  
base stainless steel

Code number – Stylus tip Material		Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Ruby	Silicon nitride										
K651026			M2	6	Grade 5	25	25	3			1,7
K651023			M2	8	Grade 5	9	9	3			1,4



**Stylus M2 carbide**  
stepped stem tungsten carbide  
base stainless steel

Code number – Stylus tip Material		Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Ruby	Silicon nitride										
K651233	K651843		M2	0,3	Grade 5	10	4	3	0,7		0,27
K651234			M2	0,5	Grade 5	10	4	3	1		0,29
K651276	K651844	K651846	M2	0,5	Grade 5	10	4	3	0,7		0,26
K651235			M2	0,5	Grade 5	20	12	3	1		0,45

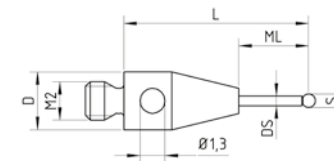
# STYLI M2



# Styli M2

## Stylus M2 carbide

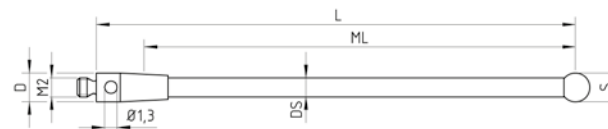
stem tungsten carbide  
base stainless steel



Code number – Stylus tip Material												
Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651236		K651847	M2	0,7	Grade 5	10	4		3	0,5		0,23
K651545	K651845	K651848	M2	1	Grade 5	10	4		3	0,7		0,29
K651237		K651426	M2	1	Grade 5	10	6		3	0,8		0,24
K651238			M2	1,5	Grade 5	10	4		3	1		0,32
K651239			M2	2	Grade 5	10	5		3	1		0,34
K651240		K651428	M2	2	Grade 5	10	6		3	1		0,29
K651241			M2	2,5	Grade 5	10	5		3	1,5		0,42
K651242			M2	3	Grade 5	10	7		3	1,5		0,45
K651243			M2	5	Grade 5	10	10		3	2		0,77
K651244			M2	6	Grade 5	10	10		3	2		0,96
K651744			M2	4	Grade 5	12,15	12,15		3	4,4		1,2
K651246			M2	1	Grade 5	15	11		3	0,8		0,5
K651247			M2	2	Grade 5	15	11		3	1		0,33
K651197		K651867	M2	0,5	Grade 5	20	7		3	0,3		0,48
K651740		K651868	M2	0,7	Grade 5	20	12		3	0,5		2
K651248	K651852	K651427	M2	1	Grade 5	20	7		3	0,7		0,48
K651249	K651853	K651870	M2	1	Grade 5	20	12,5		3	0,8		0,39
K651250	K651576	K651871	M2	1,5	Grade 5	20	12,5		3	1		0,46
K651251	K651855	K651429	M2	2	Grade 5	20	15		3	1		0,45
K651252			M2	2,5	Grade 5	20	15		3	1,5		0,69
K651547	K651856	K651873	M2	2,5	Grade 5	20	15,5		3	1		0,49
K651253	K651857	K651430	M2	3	Grade 5	20	17		3	1,5		0,72
K650866			M2	5	Grade 5	20	20		3	2		1,15
K651254	K651859	K651876	M2	5	Grade 5	20	20		3	2,5		1,47
K651544	K651858	K651875	M2	4	Grade 5	22	22		3	2		1,14
K651255			M2	6	Grade 5	25	25		3	2		1,63
K651256	K651860	K651877	M2	1	Grade 5	27,5	20,5		3	0,7		0,4
K651257	K651861	K651878	M2	1,5	Grade 5	30	22,5		3	1		0,56
K651258	K651862	K651879	M2	2	Grade 5	30	22,5		3	1,5		0,96
K651259	K651863	K651880	M2	2,5	Grade 5	30	22,5		3	2		1,44
K651260	K651864	K651431	M2	3	Grade 5	30	27,5		3	2		1,46
K651261	K651865	K651882	M2	4	Grade 5	30	30		3	2		1,56
K651262	K651866	K651883	M2	5	Grade 5	30	30		3	2,5		2,18
K651263	K651809	K651902	M2	2	Grade 5	40	32,5		3	1,5		1,22
K651264	K651889	K651903	M2	2,5	Grade 5	40	32,5		3	2		1,93
K651265	K651896	K651904	M2	3	Grade 5	40	37,5		3	2		1,88
K651266	K651897	K651905	M2	4	Grade 5	40	40		3	2		2
K651267	K651898	K651906	M2	5	Grade 5	40	40		3	2,5		2,89
K651268	K651899	K651907	M2	3	Grade 5	50	47,5		3	2		2,35
K651269	K651900	K651908	M2	4	Grade 5	50	50		3	2		2,52
K651270	K651901	K651909	M2	5	Grade 5	50	50		3	2,5		3,6
K651322			M2	1	Grade 5	52	37		3	0,7		0,89
K651323			M2	2	Grade 5	58	52		3	1,5		1,63

## Stylus M2 ceramic

stem ceramic  
base stainless steel



Code number – Stylus tip Material												
Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651231			M2	4	Grade 5	10	10		3	2		0,38
K651232			M2	5	Grade 5	10	10		3	2		0,65
K651003			M2	6	Grade 5	10	10		3	2		0,69
K651004			M2	4	Grade 5	20	20		3	2		0,51
K651005			M2	5	Grade 5	20	20		3	2		0,63
K651952	K651954		M2	2	Grade 5	30	22,5		3	1,5		0,58
K651551	K651854	K651869	M2	3	Grade 5	30	27		3	2		0,59
K651006	K651916	K651890	M2	4	Grade 5	30	30		3	2		0,67
K651007			M2	5	Grade 5	30	30		3	2		0,79
K651553	K651917	K651891	M2	5	Grade 5	30	30		3	2,5		0,93
K651554	K651886	K651892	M2	6	Grade 5	30	30		3	2,5		1,1
K651953	K651955		M2	2	Grade 5	40	30,5		3	1,5		0,58
K651008			M2	4	Grade 5	40	40		3	2		0,77
K651009	K651926	K651930	M2	3	Grade 5	50	47,5		3	2		0,84
K651010	K651927	K651931	M2	4	Grade 5	50	50		3	2		0,9
K651011	K651928	K651932	M2	5	Grade 5	50	50		3	2,5		1,3
K651543	K651929	K651933	M2	6	Grade 5	50	50		3	2,5		1,5
K651325			M2	3	Grade 5	85	70		3	2		1,56
K651328			M2	5	Grade 5	97,5	97,5		3	3		2,99
K651327			M2	4	Grade 5	98	98		3	3		2,91



## Stylus M2 CFC

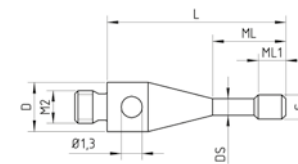
stem carbon fibre composite  
base stainless steel

Code number – Stylus tip Material												
Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651461			M2	3		30	27		3	2		0,5
K651462			M2	3		40	37,5		3	2		0,75
K651546	K651997		M2	3		50	47,5		3	2		1
K651361	K651806	K651893	M2	4		30	30		3	2		0,49
K651414			M2	4		30	30		3	3		0,6
K651347	K651934	K651937	M2	4		50	50		3	3		0,83
K651557	K651940	K651946	M2	4		75	75		3	2		0,8
K651548	K651943	K651949	M2	4		100	100		3	3		1,5
K651415	K651887	K651894	M2	5		30	30		3	3		0,8
K651348	K651935	K651938	M2	5		50	50		3	3		1,1
K651417	K651941	K651947	M2	5		75	75		3	3		1,3
K651549	K651944	K651950	M2	5		100	100		3	3		1,57
K651416	K651888	K651895	M2	6		30	30		3	3		1
K651349	K651936	K651939	M2	6		50	50		3	3		1,2
K651418	K651942	K651948	M2	6		75	75		3	3		1,45
K651419	K651945	K651951	M2	6		100	100		3	3		1,8
K651420			M2	8		75	75		3	3		1,8
K651421			M2	8		100	100		3	3		2,1
K651198			M2	8		300	275		3	6		4

# Styli M2

## Cylinder stylus M2 steel

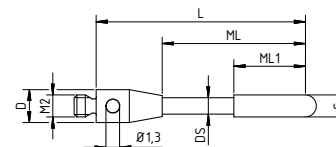
stem stainless steel  
base stainless steel



Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651030	Stainless steel	M2	1,5	11	4,5	1,7	3	1		0,28
K651031	Stainless steel	M2	3	13	8	4	3	1,5		0,49

## Cylinder stylus M2 ruby

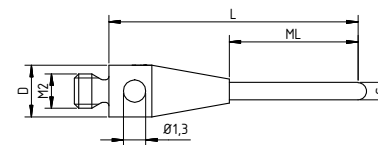
tip ruby  
stem tungsten carbide  
base stainless steel



Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651032	ruby	M2	2	20	13	6,5	3	1,5		0,47
K651033	ruby	M2	4	20	13	8,5	3	2		0,9

## Cylinder stylus M2 ruby

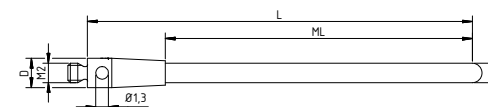
tip ruby  
stem ruby  
base stainless steel



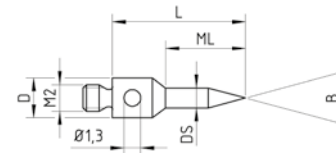
Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651034	ruby	M2	1	14,5	7,5		3			0,28
K651035	ruby	M2	1,5	14,25	7,25		3			0,3

## Cylinder stylus M2 carbide

tip carbide  
stem tungsten carbide  
base stainless steel

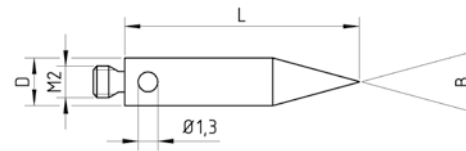


Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651342	carbide	M2	0,5	15	22		3			5
K651343	carbide	M2	1	36	28		3			5
K651458	carbide	M2	2	15	7,5		3			0,83
K651036	carbide	M2	2	39	31		3			1,87
K651459	carbide	M2	3	22,5	21		3			2,02
K651460	carbide	M2	3	39	7		3			2,18



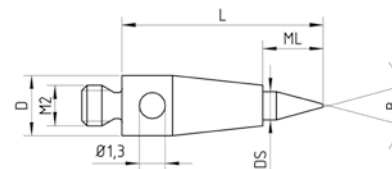
**Tip stylus M2, steel**  
tip steel hardened  
base stainless steel

Code number	Stylus tip material	Thread	B	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651095	steel, hardened	M2	30°	10	6		3	1,5	0,26
K651096	steel, hardened	M2	60°	10	6		3	1,5	0,27



**Tip stylus M2, steel**  
tip steel hardened  
base stainless steel

Code number	Stylus tip material	Thread	B	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651097	steel, hardened	M2	30°	15			3		0,61



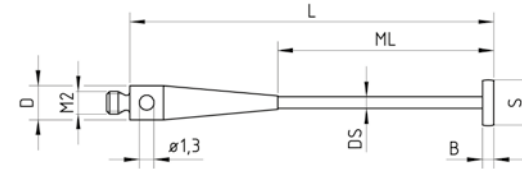
**Tip stylus M2, tungsten carbide**  
tip steel hardened  
base stainless steel

Code number	Stylus tip material	Thread	B	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651098	carbide	M2	30°	10	3		3	1,4	0,37

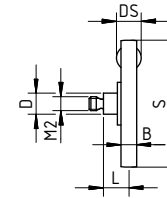
# Styli M2

## Disc stylus M2, ruby

tip ruby  
stem tungsten carbide  
base stainless steel



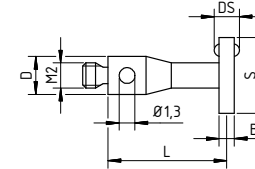
Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	B mm	Weight g
K651086	ruby	M2	4	32	19		3		1	0,78
K651087	ruby	M2	8	32	19		3		1,5	1,38



## Disc stylus M2, steel

disc steel, hardened  
stem tungsten carbide  
base stainless steel

Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	B mm	Weight g
K651081	steel, hardened	M2	18	2,6			3	3	2,3	4
K651082	steel, hardened	M2	25	2,5			3	no ball	3,1	5
K651083	steel, hardened	M2	18	7,5			3	2,5	1,6	4,5
K651084	steel, hardened	M2	25	7,5			3	2,5	1,6	6,6

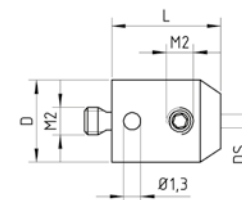


## Disc stylus M2, ruby

tip ruby  
base stainless steel

Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	B mm	Weight g
K651085	ruby	M2	6	7,5			3	2	1,2	6,6





### Stylus holder M2

stainless steel

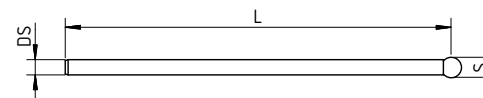
Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651362	M2		8			6	0,5 G7		1,7
K651065	M2		8			6	1,0 G7		1,54
K651066	M2		8			6	1,5 G7		1,51
K651067	M2		8			6	2,0 G7		1,47



### Stylus for holder M2

tip ruby  
stepped stem tungsten carbide

Code number	Stylus tip material	S mm	Ball grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651068	ruby	0,3	Grade 5	15,15	2,15		1	0,2		0,14
K651069	ruby	0,5	Grade 5	15,25	2,25		1	0,3		0,15
K651070	ruby	0,6	Grade 5	15,3	4,3		1	0,4		0,13
K651071	ruby	0,8	Grade 5	15,4	4,4		1	0,6		0,14
K651072	ruby	1	Grade 5	15,5	4,5		1	0,8		0,15



### Stylus for holder M2

tip ruby  
stem tungsten carbide

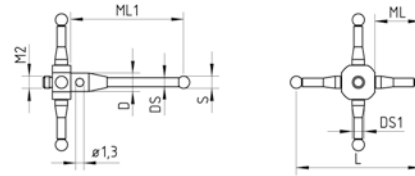
Code number	Stylus tip material	S mm	Ball grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651073	ruby	1,3	Grade 5	25,7						0,28
K651074	ruby	1,5	Grade 5	25,75						0,29
K651075	ruby	2	Grade 5	26						0,65
K651076	ruby	2,5	Grade 5	26,25						0,67
K651077	ruby	3	Grade 5	26,5						1,24
K651078	ruby	4	Grade 5	27,2						1,37
K651079	ruby	5	Grade 5	27,5						1,51
K651080	ruby	3	Grade 5	36,5						1,62
K650338	ruby	5	Grade 5	41,9						5,8

STYLI M2

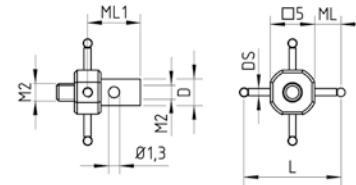
# Styli M2

## 5-way stylus M2

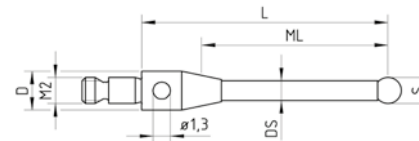
tip ruby  
stem tungsten carbide,  
stainless steel  
base stainless steel



Code number	Stylus tip material	Thread	S mm	Ball grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651053	ruby	M2	2	Grade 5	18	5,25	16,5	2H7	1,4	2	1,54
K651451	ruby	M2	2	Grade 5	20	7,2	18,5	2H7	1,4	2	1,74
K651054	ruby	M2	2	Grade 5	30	10,75	6,5	2H7	1,4	2	1,88



Code number	Stylus tip material	Thread	S mm	Ball grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651452	ruby	M2	0,5	Grade 5	10	7,5	2,5	3	0,3		0,72
K651453	ruby	M2	0,5	Grade 5	10	7,5	7	3	0,3		0,74
K651052	ruby	M2	1	Grade 5	10	2,5	6	3	0,7		0,5
K651454	ruby	M2	1	Grade 5	20	7,5	7,5	3	0,7		0,87
K650157	ruby	M2	1	Grade 5	20	6	7,5	3	0,7		0,63

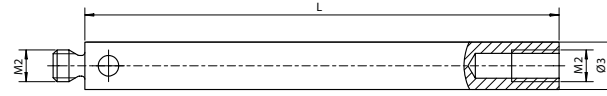


Code number	Stylus tip material	Thread	S mm	Ball grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650449	ruby	M2		Grade 5	18,5	12,5		3	1,5		0,63
K651055	ruby	M2		Grade 5	16,5	11		3	1,4		0,57

## Stylus for 5-way holder M2

tip ruby  
stem tungsten carbide,  
stainless steel  
base stainless steel

# Styli Accessories M2



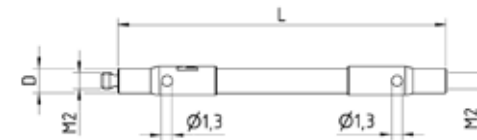
**Extension M2 steel**  
stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651037	M2		5			3			0,2
K651038	M2		10			3			0,41
K651039	M2		20			3			0,96
K651040	M2		30			3			1,53
K651041	M2		40			3			2,05
K651042	M2		60			3			2,7
K651043	M2		90			3			3,8
K651043	M2		90			3			3,8



**Extension M2 ceramic**  
stem ceramic  
end pieces stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651583	M2		20			3			1,57
K651044	M2		30			3			0,99
K651045	M2		40			3			1,26
K651046	M2		50			3			1,54
K651047	M2		60			3			1,82
K651584	M2		80			3			7,84
K651582	M2		200			3			13



**Extension M2 CFC**  
stem carbon fibre composite  
end pieces stainless steel

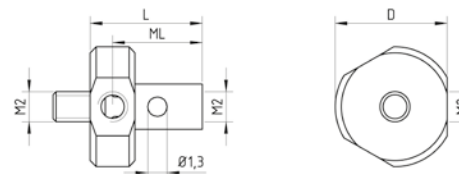
Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651350	M2		40			3			1,4
K651351	M2		50			3			1,6
K651352	M2		70			3			1,8
K651353	M2		90			3			2

STYLI M2

# Styli Accessories M2

## 4-way stylus holder M2

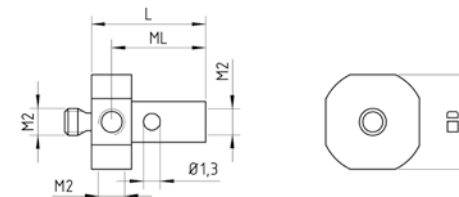
stainless steel, rotatable



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651056	M2		7,5	6		7,5			1,07

## 5-way stylus holder M2

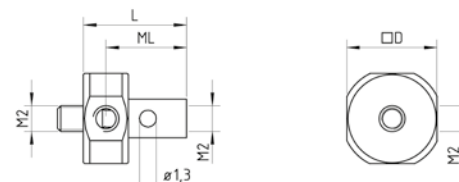
stainless steel, rotatable



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651058	M2		7,5	6		7			0,92

## 5-way stylus holder M2

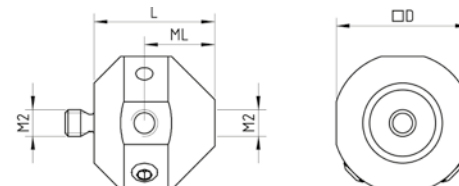
stainless steel, fixed



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651057	M2		8,5	7		7			0,96

## 5-way stylus holder M2, large

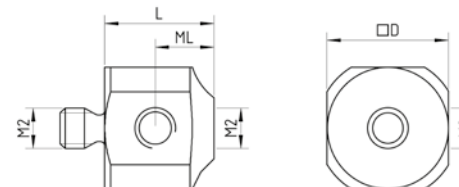
stainless steel, rotatable



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651059	M2		9,1	5,3		10			3,62

## 5-way stylus holder M2, small

stainless steel, fixed

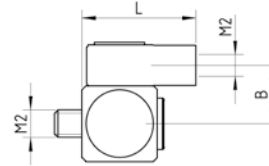


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651060	M2		5,4	2,9		6			0,94

# DR

## Knuckle joint M2

stainless steel

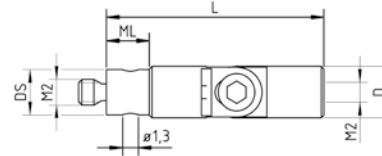


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651100	M2	4,5	8						1,67

# CM

## Knuckle/swivel joint M2

stainless steel

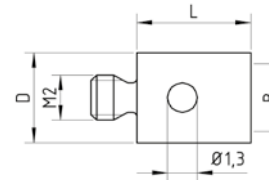


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651101	M2		17,2	3,4		4	3,5		1,38
K651446	M2		13,5	2		4	3		1

# AM

## Adapter M2

stainless steel



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651061	M2	M3		5			4		0,29
K651062	M2	M3		7			4		0,42
K651063	M2	M3		10			4		0,58
K651064	M2	M4		10			4		0,79

# STYLI M2





# Stylus System Components for Coordinate Measuring Probe Heads

## WITH M3 THREAD

**TP8  
SP25M**

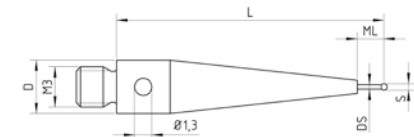
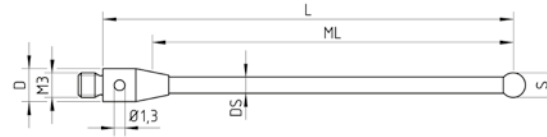
**Compatible  
to any other  
M3 probe head  
system**

Please thoroughly check the specification of your probe head system to always make sure, the chosen stylus is within the manufacturers recommended range of length and mass.

**Mitutoyo**

# STYLUS FOR CMM

# Styli M3



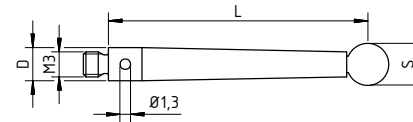
## Stylus M3 stainless steel

stem stainless steel  
base stainless steel

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side

Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651956			M3	1	Grade 5	10	4		4	0,7		0,6
K651146	K651960	K651964	M3	1	Grade 5	21	4		4	0,7		1,05
K651957			M3	2	Grade 5	10	6		4	1,5		0,5
K651147	K651561	K651566	M3	2	Grade 5	21	9,8		4	1,4		1,06
K651958			M3	3	Grade 5	10	6,5		4	1,5		0,5
K651148	K651961	K651965	M3	3	Grade 5	21	12		4	1,5		0,96
K651959			M3	4	Grade 5	10	7		4	2,5		0,7
K651149	K651962	K651966	M3	4	Grade 5	21	17		4	2,5		1,38
K651151	K651910	K651911	M3	4	Grade 5	31	27		4	2,5		1,78
K651150	K651787	K651967	M3	5	Grade 5	21	21		4	2,5		1,48

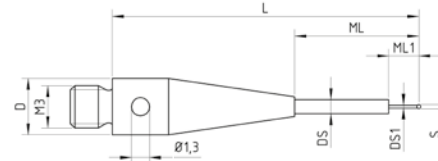


## Stylus M3 stainless steel, tapered

stem stainless steel  
base stainless steel

Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651152	K651963	K651968	M3	5	Grade 5	31			4	3,5		2,61



## Stylus M3 carbide, stepped

stem tungsten carbide  
base stainless steel

Code number – Stylus tip Material

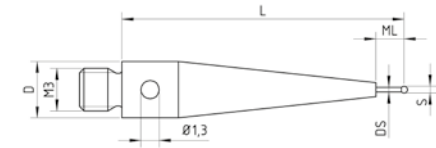
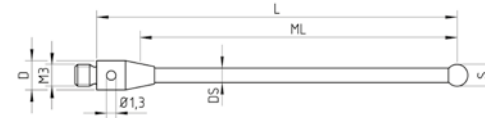
Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651106	K651366		M3	0,3	Grade 5	21,9	8,85	2,16	4	1	0,2	0,98
K651640			M3	0,5	Grade 5	12,75	3,75	2,05	4	1	0,3	0,63
K651641			M3	0,5	Grade 5	19,75	8,5	2,05	4	1	0,3	0,72
K651105	K651367		M3	0,5	Grade 5	21,8	8,75	2,25	4	1	0,3	1
K651104			M3	0,6	Grade 5	21,7	8,7	4	4	1	0,4	1,07
K651103			M3	0,8	Grade 5	21,6	8,6	4	4	1	0,6	0,98
K651102			M3	1	Grade 5	21,5	8,5	4	4	1	0,8	0,99
K651363			M3	1	Grade 5	29,5	20,5	4,5	4	1	0,8	0,69

STYLI M3

# Styli M3

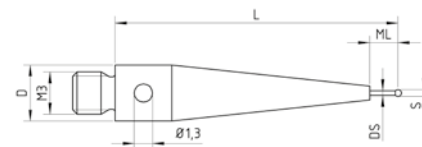
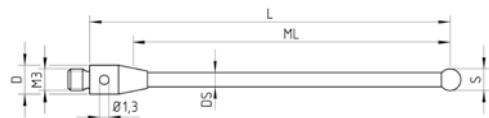
**Stylus M3 carbide**  
stem tungsten carbide  
base stainless steel

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side



Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651111	K651919	K651920	M3	0,5	Grade 5	20	2		4	0,35		1,09
K651107			M3	1	Grade 5	10	5		4	0,8		0,53
K651365			M3	1	Grade 5	20	12,5		4	0,7		0,75
K651329	K651581		M3	1	Grade 5	22	12		4	0,8		0,8
K651363			M3	1	Grade 5	29,5	20,5	4,5	4	1	0,8	0,69
K651330	K651368		M3	1	Grade 5	32	25		4	0,8		0,81
K651112	K651969	K651972	M3	1,5	Grade 5	20	12,5		4	1		0,82
K651118			M3	1,5	Grade 5	21,25	8,6		4	1		1,05
K651119	K651369	K651974	M3	1,5	Grade 5	30	22,5		4	1		0,92
K651660			M3	2	Grade 5	19	10,3		4	1		0,74
K651745			M3	2	Grade 5	20	12,5		4	1,5		12,8
K651109	K651432		M3	2	Grade 5	20	14,8		4	1		0,71
K651113			M3	2	Grade 5	21	10		4	1		1,01
K651120	K651433	K651975	M3	2	Grade 5	30	22,5		4	1,5		1,28
K651127	K651777	K651977	M3	2	Grade 5	40	32,5		4	1,5		1,54
	K651809		M3	2	Grade 5	40	32,5		4	1,5		1,27
K651331			M3	2	Grade 5	69	62,5		4	1,5		2,26
K651114	K651970	K651973	M3	2,5	Grade 5	21	14		4	1,5		1,07
K651121	K651370	K651921	M3	2,5	Grade 5	30	22		4	2		1,79
K651128	K651371	K651978	M3	2,5	Grade 5	40	32		4	2		2,28
K651108			M3	3	Grade 5	19,5	13,28		4	1,5		1,3
K651594			M3	3	Grade 5	20	8,5		4	2		3,32
K651971			M3	3	Grade 5	20	14		4	2		1,4
K651110			M3	3	Grade 5	20	15,5		4	1,5		1,25
K651122	K651434	K651976	M3	3	Grade 5	30	22,5		4	2		1,79
K651126			M3	3	Grade 5	38,5	22		4	2		3,87
K651129	K651435	K651979	M3	3	Grade 5	40	32,5		4	2		2,22
K651132	K651982	K651983	M3	3	Grade 5	50	42,5		4	2		2,49
K651332	K651437	K651984	M3	3	Grade 5	64	50		4	2		3,61
K651115			M3	4	Grade 5	21	17		4	2		1,54
K651123			M3	4	Grade 5	30	27		4	2		1,8
K651130	K651436	K651980	M3	4	Grade 5	40	36		4	2		2,35
K651807			M3	4	Grade 5	50	46		4	2		2,83
K651133	K651437	x	M3	4	Grade 5	50	46		4	2		2,69
K651333			M3	4	Grade 5	57	53		4	2		3,15
K651116			M3	5	Grade 5	21	21		4	2		1,64
K651124			M3	5	Grade 5	31	31		4	2		2,01
K651131	K651981	K651786	M3	5	Grade 5	40	40		4	2		2,49
K651134	K651580	K651985	M3	5	Grade 5	50	50		4	2		2,98
K651117			M3	8	Grade 5	21	21		4	3		3,14



## Stylus M3 XXT carbide

stem tungsten carbide  
base titanium

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side

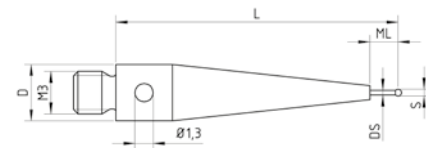
Code number	Stylus tip Material	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651667	ruby	M3	3	Grade 5	23,5	14,5		5			0,7
K651668	ruby	M3	3	Grade 5	31,5	22,5		5			0,7
K651669	ruby	M3	3	Grade 5	38,5	29,5		5			0,8
K651671	ruby	M3	3	Grade 5	48,5	39,5		5			0,8
K651672	ruby	M3	3	Grade 5	56,5	47,5		5			0,9
K651674	ruby	M3	3	Grade 5	73,5	64,5		5			0,9
K651675	ruby	M3	4	Grade 5	48	39		5			0,9
K651676	ruby	M3	4	Grade 5	73	64		5			1,66
K651677	ruby	M3	5	Grade 5	27,5	18,5		5			0,98
K651678	ruby	M3	5	Grade 5	37,5	28,5		5			1,14
K651679	ruby	M3	5	Grade 5	47,5	38,5		5			1,29
K651680	ruby	M3	5	Grade 5	57,5	48,5		5			1,45
K651681	ruby	M3	5	Grade 5	72,5	63,5		5			1,68
K651682	ruby	M3	6	Grade 5	47	37		5			1,34
K651683	ruby	M3	6	Grade 5	67	58		5			2,1
K651684	ruby	M3	6	Grade 5	97	88		5			2,1
K651686	ruby	M3	8	Grade 5	46	46		5			2,72
K651687	ruby	M3	8	Grade 5	66	66		5			2,7
K651688	ruby	M3	8	Grade 5	96	96		5			3,65
K651689	ruby	M3	8	Grade 5	121	121		5			4,43

# Styli M3

## Stylus M3 ceramic

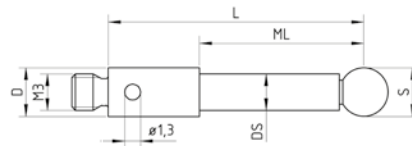
stem tungsten carbide  
base stainless steel

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side



Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651986			M3	2	Grade 5	40	32,5		4	1,5		0,9
K651987			M3	2,5	Grade 5	40	32,5		4	2		1,1
K651988			M3	3	Grade 5	40	32,5		4	2		1,1
K651143	K651575	K651990	M3	3	Grade 5	50	43		4	2		1,19
K651136			M3	4	Grade 5	21	16,5		4	2		0,98
K651140			M3	4	Grade 5	30	27		4	2		0,89
K651141			M3	4	Grade 5	40	35,5		4	2		1,13
K651144	K651563	K651991	M3	4	Grade 5	50	46		4	2		1,27
K651137			M3	5	Grade 5	21	21		4	2		1
K651139			M3	5	Grade 5	29,5	29,5		4	2		1,33
K651989			M3	5	Grade 5	40	40			2,5		1,7
K651142			M3	5	Grade 5	40	40		4	2		1,45
K651145	K651922	K651923	M3	5	Grade 5	50	50		4	2,5		1,63
K651135			M3	6	Grade 5	10	10		4	2		0,86
K651138			M3	8	Grade 5	21	21		4	3		1,89
K651334			M3	8	Grade 5	130	110		4	4		9,52



## Stylus M3

### carbon fibre composite

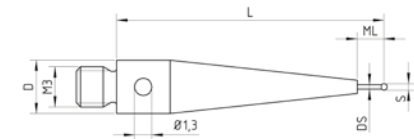
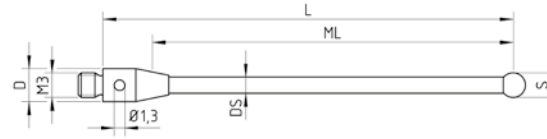
stem CFC  
base stainless steel

Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651297			M3	3	Grade 5	21	14,7		4	2		0,76
	K651998		M3	3		50	42		4	1,5		1
K651298	K651301		M3	4	Grade 5	21	13,5		4	3		0,88
K651299			M3	4	Grade 5	31	23,5		4	3		0,95
K651300			M3	4	Grade 5	40	32,5		4	3		1
K651785			M3	4	Grade 5	50	42,5		4	3		1,28
	K651999		M3	4		100	96		4	2		2,2
K651302	K651304		M3	5	Grade 5	21	21		4	3		0,91
K651303			M3	5	Grade 5	50	50		4	3		1,11
K651305			M3	6	Grade 5	50	50		4	4		1,76
K651306	K651577	K651924	M3	6	Grade 5	75	75		4	4		2,26
K651307	K651793	K650275	M3	6	Grade 5	100	100		4	4		2,76
K651308	K650272	K650274	M3	8	Grade 5	75	75		4	4		2,43
K651309	K650273	K650276	M3	8	Grade 5	100	100		4	4		2,94
K651310	K650280	K650287	M3	10	Grade 5	75	75		4	4		4,1
K651311	K650281	K650288	M3	10	Grade 5	100	100		4	4		4,6
K651312	K650282	K650289	M3	10	Grade 5	150	150		4	4		5,5
K651313	K650283	K650290	M3	10	Grade 5	200	200		4	4		6,5
K650277	K650284	K650291	M3	12	Grade 5	100	100		4	4		5,9
K650278	K650285	K650292	M3	12	Grade 5	150	150		4	4		6,9
K650279	K650286	K650293	M3	12	Grade 5	200	200		4	4		7,9

## High Precision Stylus M3 stainless steel

stylus tip Grade 3  
stem stainless steel  
base titanium

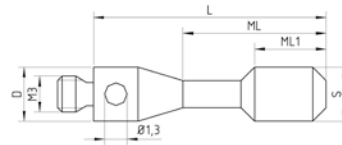


Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650377			M3	1	Grade 3	21	4		4	3		1,1
K650378			M3	4	Grade 3	31	27		4	3		1,78
K650379			M3	5	Grade 3	21	21		4	3,5		1,35

## Cylinder stylus M3 steel

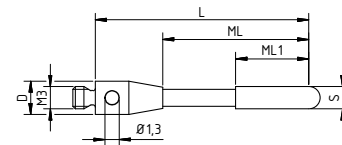
cylinder stainless steel  
stem stainless steel  
base stainless steel



Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g	DS 1 mm	Weight g
K651153	stainless steel	M3	1,5	11	5		4			0,53		1,09
K651154	stainless steel	M3	3	13	8,5		4			0,79		0,53

## Cylinder stylus M3 ruby

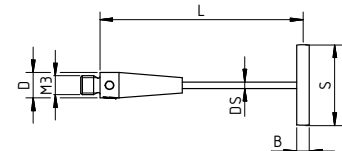
cylinder ruby  
stem tungsten carbide  
base stainless steel



Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g	DS 1 mm	Weight g
K651155	ruby	M3	2	19	13		6,5	4		0,83		1,09

## Disc stylus M3 steel

disc hardened steel  
stem tungsten carbide  
base stainless steel

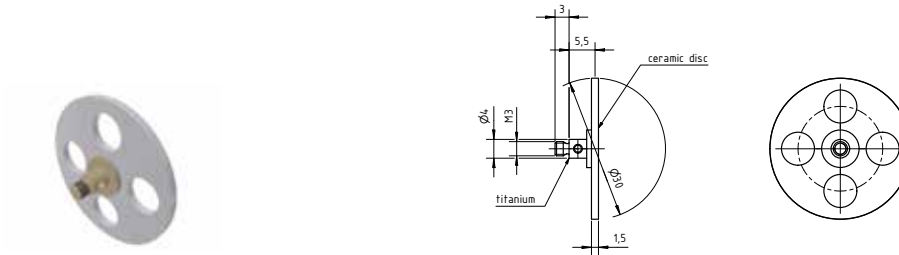


Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g	DS 1 mm	Weight g
K651172	hardened steel	M3	12,7	31	13		4	3,5	2,3	4		1,09



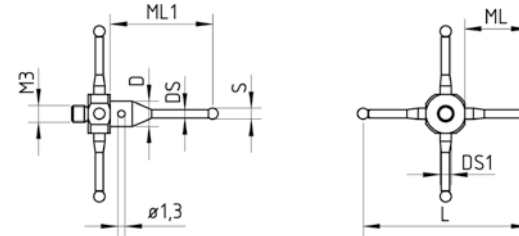
# Styli M3

**Disc stylus M3 ceramic**  
disc ceramic  
base titanium

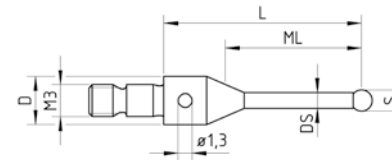


Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g	DS 1 mm	Weight g
K651612	ceramic	M3	30	5,5	5,5		4	4	1,5	2,62		1,09

**5-way stylus M3**  
stem tungsten carbide  
base stainless steel



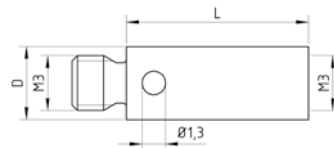
Code number – Stylus tip Material			Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
<b>Ruby</b>	<b>Silicon nitride</b>	<b>Zirconium oxide</b>										
K651163	K651578		M3	2	30	8	18,5	3H7	1,5	2	1,82	0,9
K651164			M3	2	50	12	28,5	3H7	1,5	2	2,58	1,1



**Stylus M3**  
**for multi-way stylus**  
base stainless steel

Code number	Stylus tip material	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g	DS 1 mm	Weight g
K651163	ruby	M3	2	30	8	18,5	3H7	1,5	2	1,82		1,09
K651164	ruby	M3	2	50	12	28,5	3H7	1,5	2	2,58		0,53

# Styli Accessories M3



**Extension M3, steel**  
stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651156	M3		10			4			0,76
K651157	M3		20			4			1,58
K651158	M3		30			4			2,63
K651159	M3		35			4			3,16
K651160	M3		40			4			3,47
K651161	M3		50			4			4,44



**Extension M3, ceramic**  
stem ceramic  
end pieces stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651162	M3		50			4			2,78



**Extension M3, carbon fibre composite**  
stem CFC  
end pieces stainless steel

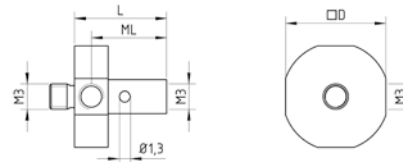
Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651425	M3		30			4			1,9
K651422	M3		50			4			2,1
K651423	M3		75			4			2,6
K651424	M3		100			4			3,1

# Styli Accessories M3



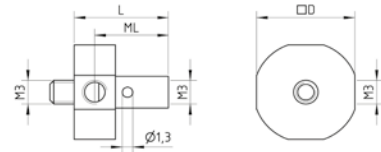
**Extension M3, XXT**  
**carbon fibre composite**  
 stem CFC  
 end pieces titanium

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K656061	M3		20			5			1,3
K656062	M3		25			5			1,4
K656063	M3		30			5			1,5
K656064	M3		40			5			1,7
K656065	M3		50			5			1,52
K656066	M3		60			5			2,2
K656067	M3		65			5			2,3
K656068	M3		75			5			2,6
K656069	M3		80			5			2,7
K656070	M3		100			5			3,2
K656071	M3		130			5			3,9
K656072	M3		150			5			4,3



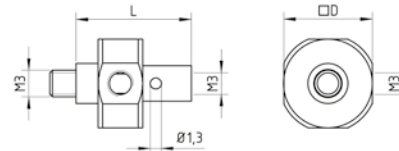
**5-way stylus holder M3**  
 stainless steel, fixed

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651167	M3		11	9		12			3,28



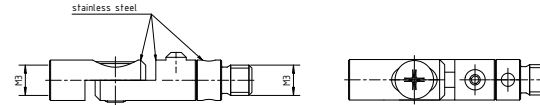
**5-way stylus holder M3**  
 stainless steel, rotatable

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651168	K651170	5	4	M2	0.41	12			4,24
	K651171	10	5	M4	0.9				



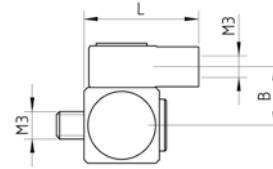
**5-way stylus holder M3**  
 stainless steel, rotatable

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651169	M3		13	9		10			3,23



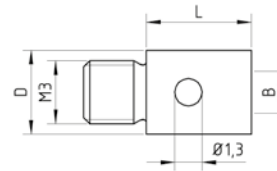
**Swivel joint M3**  
stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651447	M3	5,5	17			4			15



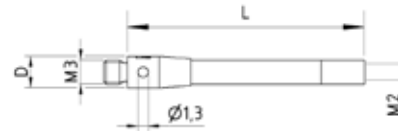
**Knuckle joint M3**  
stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651180	M3	5,5	11,5			4			3,71



**Adapter M3**  
stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651170	M3	M2	5			4			0,41
K651171	M3	M4	10			5			0,9



**Adapter M3**  
**Carbon fibre composite**  
Stem CFC  
end pieces stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS1	Weight g
K651409	M3	M2	30			4			3
K651410	M3	M2	55			4			3
K651411	M3	M2	80			4			3

# Stylus System Components for Coordinate Measuring Probe Heads

## WITH M4 THREAD

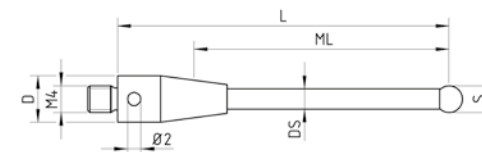
TP7  
SP600  
MPP310  
MTP2000

**Compatible to  
any other M4  
probe head  
system**

Please thoroughly check the specification of your probe head system to always make sure, the chosen stylus is within the manufacturers recommended range of length and mass.

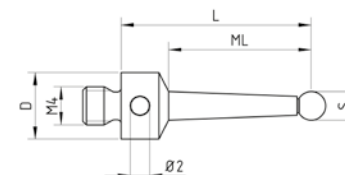
# STYLUS FOR CMM

# Styli M4



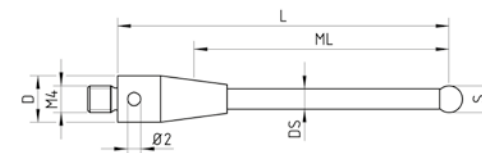
**Stylus M4 steel**  
stem stainless steel  
base stainless steel

Code number – Stylus tip Material		Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Ruby	Silicon nitride										
K651186		M4	1	Grade 5	19,5	4		7	0,7		2,52
K651187		M4	2	Grade 5	19	8		7	1,35		2,25
	K651603	K651607	M4	2	Grade 5	19	9,2	7	1,4		2,2
K651598			M4	2	Grade 5	50	40	7	1,5		10
K651188	K651604	K651608	M4	4	Grade 5	18	13,5	7	3		2,13
K651591			M4	5	Grade 5	10,5	5,5	7	3,5		2,1
K651185			M4	5	Grade 5	17,5	12,5	7	3,5		2,39
K651189			M4	5	Grade 5	20	15	7	3,5		2,3
K651572			M4	5	Grade 5	30	26	7	3		2,93
K651192			M4	5	Grade 5	50	36	7	4		4,72
K651193			M4	5	Grade 5	100	86	7	4		11,3
K651335			M4	5	Grade 5	150	133	7	4		20,05
K651190			M4	6	Grade 5	20	15,5	7	4,5		3,51
K651191			M4	8	Grade 5	20	20	7	5,5		4,72



**Stylus M4 steel**  
stem stainless steel, tapered  
base stainless steel

Code number – Stylus tip Material		Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Ruby	Silicon nitride										
K651194		M4	3	Grade 5	20	14,5		7			2,03



**Stylus M4 carbide**  
stem tungsten carbide  
base stainless steel

Code number – Stylus tip Material		Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
Ruby	Silicon nitride										
K651593		M4	1	Grade 5	20	10		7	0,7		2,44
K651598		M4	2	Grade 5	50	40		7	1,5		10
K651594	K651804		M4	3	Grade 5	20	8,5	7	2		3,32
K651592	K651805		M4	3	Grade 5	50	38,5	7	2		4,62
K651595			M4	4	Grade 5	20	8,5	7	2		3,47
K651599			M4	4	Grade 5	50	38,5	7	2		4,82
K651596			M4	5	Grade 5	20	7,9	7	2,5		4,34
K651600			M4	5	Grade 5	50	37,9	7	2,5		6,06
K651597			M4	6	Grade 5	20	10,7	7	2,5		4,54
K651601			M4	6	Grade 5	50	40,7	7	2,5		6,66



# Styli M4

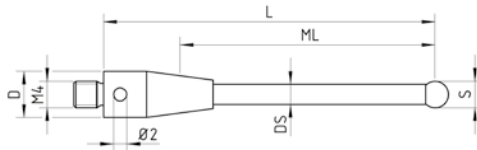
## Stylus M4 ceramic

stem ceramic  
base stainless steel



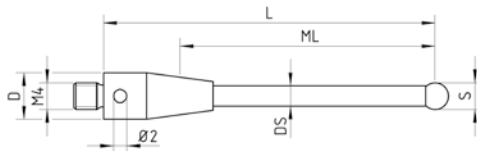
Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651407			M4	4	Grade 5	50	33,5		7	3		4,73
K651588			M4	5	Grade 5	50	33,5		7	3,8		4,72
K651589			M4	5	Grade 5	75	60,3		7	4		5
K651587			M4	5	Grade 5	100	83,5		7	3,8		6,15
K651181			M4	6	Grade 5	47	36		7	4		9,73
K651408			M4	6	Grade 5	50	39		7	4		5,09
K651590			M4	6	Grade 5	75	63,5		7	4,5		4,34
K651183			M4	6	Grade 5	97	86		7	4		9,73
K651403			M4	6	Grade 5	100	86		7	4		7,76
K651602			M4	8	Grade 5	75	75		7	4,5		6,38
K651182			M4	8	Grade 5	50	50		7	4,5		6,06
K651184			M4	8	Grade 5	100	100		7	4,5		9,14



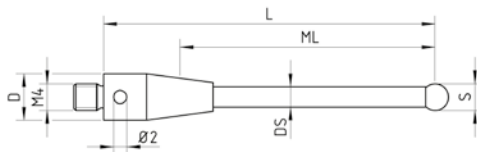
Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651463	K651605	K651609	M4	5	Grade 5	50	38,5		7	4,5		5
K651356	K651606	K651610	M4	5	Grade 5	100	88,5		7	4,5		6,27
K651346			M4	5	Grade 5	150	138,5		7	4,5		71,55
K651340			M4	6	Grade 5	200	188,5		7	4,5		8,82
K651464			M4	6	Grade 5	300	288,5		7	4,5		11,36



Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651737			M4	4	Grade 5	300	283,5	7	7	4		10,41



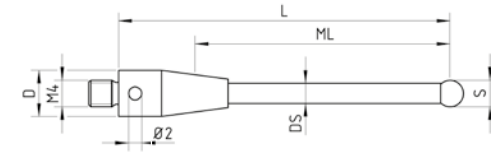
## Stylus M4 CFC

stem carbon fibre composite  
base titanium



## High Precision Stylus M4 stainless steel

stylus tip Grade 3  
stem stainless steel  
base titanium



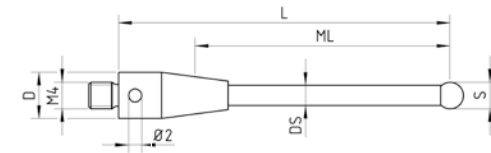
Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651585			M4	1	Grade 3	19,5	5			0,7		2,5
K651586			M4	2	Grade 3	19	8			1,35		2,3



## High Precision Stylus M4 ceramic

stylus tip Grade 3  
stem ceramic  
base stainless steel

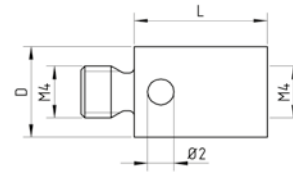


Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651614			M4	4	Grade 3	20	13,5			3		2,1
K651615			M4	4	Grade 3	50	33			3		4,8
K651815			M4	5	Grade 3	20	11,5			3,5		1,77
K651616			M4	8	Grade 3	50	50			4,5		5,1
K651621			M4	8	Grade 3	100	100			4,5		6,6

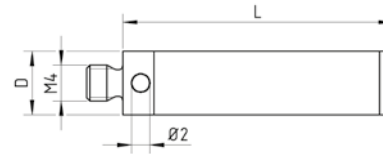
# Styli Accessories M4

## Extension M4 steel stainless steel



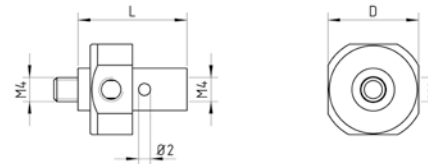
Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651199	M4		10			7			2,39
K651200	M4		15			7			3,81
K651201	M4		20			7			5,33
K651202	M4		30			7			8,52

## Extension M4 ceramic stem ceramic end pieces stainless steel



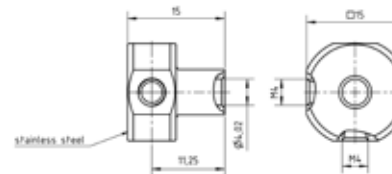
Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651203	M4		30			7			5,09
K651204	M4		50			7			6,15
K651205	M4		100			7			10,6
K651582	M4		200			7			13

## 5-way stylus holder M4 stainless steel, rotatable

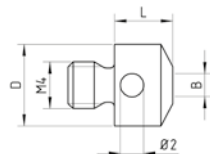


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651206	M4		18			15			12,1

## 5-way stylus holder M4 stainless steel, non-rotatable

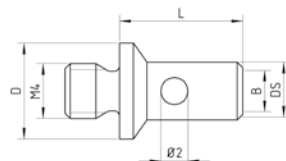


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651455	M4		15			15			10



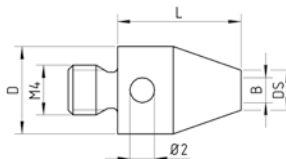
**Adapter M4**  
stainless steel

Code number	Main thread	B	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651207	M4	M2		5			7		1,41



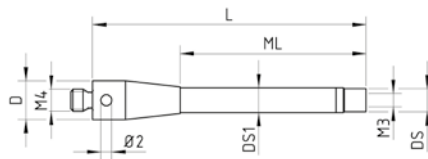
**Adapter M4**  
stainless steel

Code number	Main thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651208	M4	M3		9			7	4,2	1,45
K651209	M4	M3		20			7	4,2	6,15



**Adapter M4**  
stainless steel

Code number	Main thread	B	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651212	M4	M2		10			7		2,2
K651213	M4	M3		10			7		2,2

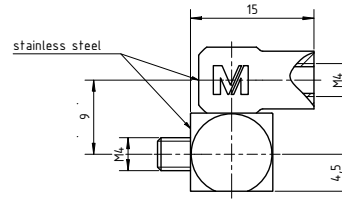


**Adapter M4 ceramic**  
stem ceramic  
end pieces stainless steel

Code number	Main thread	B	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651214	M4	M3		50	34		7	4,5	4,4
K651215	M4	M3		75	59		7	4,5	5,48
K651216	M4	M3		100	84		7	4,5	6,71

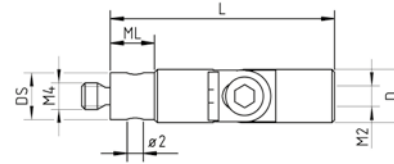
# Styli Accessories M4

**Knuckle joint M4**  
stainless steel



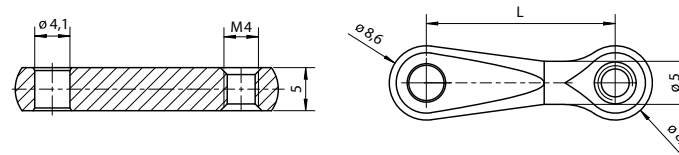
Code number	Main thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651451	M4		15						12,32

**Knuckle/swivel joint M4**  
stainless steel



Code number	Main thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651448	M4		34	14,5					5

**Eccentric joint M4**  
stainless steel



Code number	Main thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651635	M4		21,9						6,14
K651636	M4		27,6						7,02

STYLI M4

# Discover the Mitutoyo FixtureBuilder software

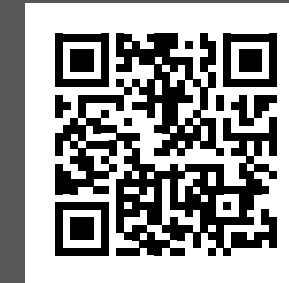
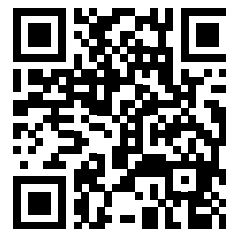
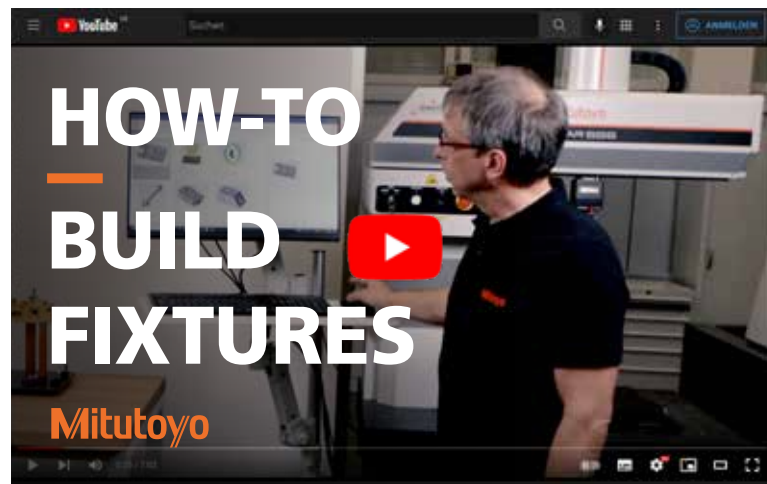
## Precision Measurement starts with Precision Fixturing

Therefore, fixturing is as important for quality control as the choice for which measuring device.

Mitutoyo Fixtures are designed to be completely modular, making it so that you never have to compromise when it comes to fastening workpieces regardless of size or weight.



Watch how to use the FixtureBuilder software on our YouTube channel



Generate a free software download

Measuring complex workpieces should be as easy as possible, and the same goes for assembling fixtures too!

Try our free FixtureBuilder software and make the most of your time.

FIXTURES FOR CMM



# MACHINE TOOL STYLI



## Mitutoyo hard soldered bonding

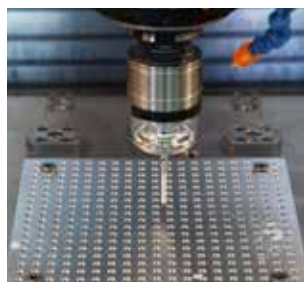
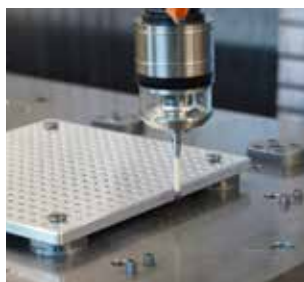
unaffected by aggressive lubricants and cooling liquids

increased tool life

## Conventional glue bonding

prone to bonding failure by chemical reaction

life cycle may be affected by glue failure



Tailormade for rough production environments.

Machine tool measurement systems use the axis of the production machine to check the workpiece during production.

The inhouse hard soldered bonding of the styli components withstands even the toughest of cooling liquids and lubricants without failure. The bonding of conventionally glued components often fails when exposed to these chemicals. As a result, balls and bases may fall off.

- The life-cycle of the stylus is limited only by the wear of the ball or collision.
- Other ball materials can be used on request
- hard soldered bonding as the standard bonding method for machine tool styli is only available at Mitutoyo.

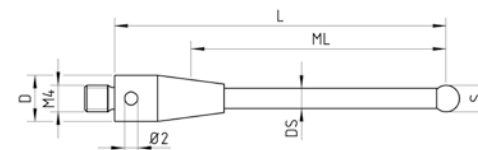
# MACHINE TOOL STYLI





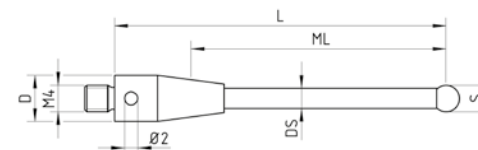
**Machine Tool Stylus**  
**M4 stainless steel**  
**Hard soldered**  
 stem stainless steel  
 base stainless steel

Code number – Stylus tip Material													
Ruby	Silicon nitride	Zirconium oxide	Carbide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651700				M4	1	Grade 5	19,5	5		7	0,7		0,7
K651573				M4	2	Grade 5	19,2	9		7	1,4		1,4
K651574				M4	3	Grade 5	18,5	13		7	2-3		2-3
K651701				M4	4	Grade 5	18	13,7		7	3		3
K651702				M4	5	Grade 5	50	33,5		7	4,5		4,5
K651703				M4	5	Grade 5	100	83		7	4,5		4,5



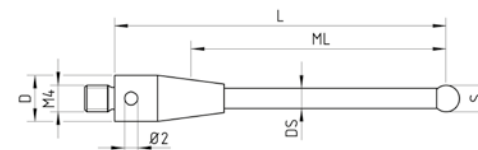
**Machine Tool Stylus**  
**M4 ceramic**  
**Hard soldered**  
 stem ceramic  
 base stainless steel

Code number – Stylus tip Material													
Ruby	Silicon nitride	Zirconium oxide	Carbide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650215				M4	4	Grade 5	50	33,5			3		4,8
K651555				M4	5	Grade 5	50	38,5			4,5		5,14
K651556				M4	5	Grade 5	100	88,5			4,5		7,29
K650216				M4	8	Grade 5	50	50			4,5		6,26
K650217				M4	8	Grade 5	100	100			4,5		7,75

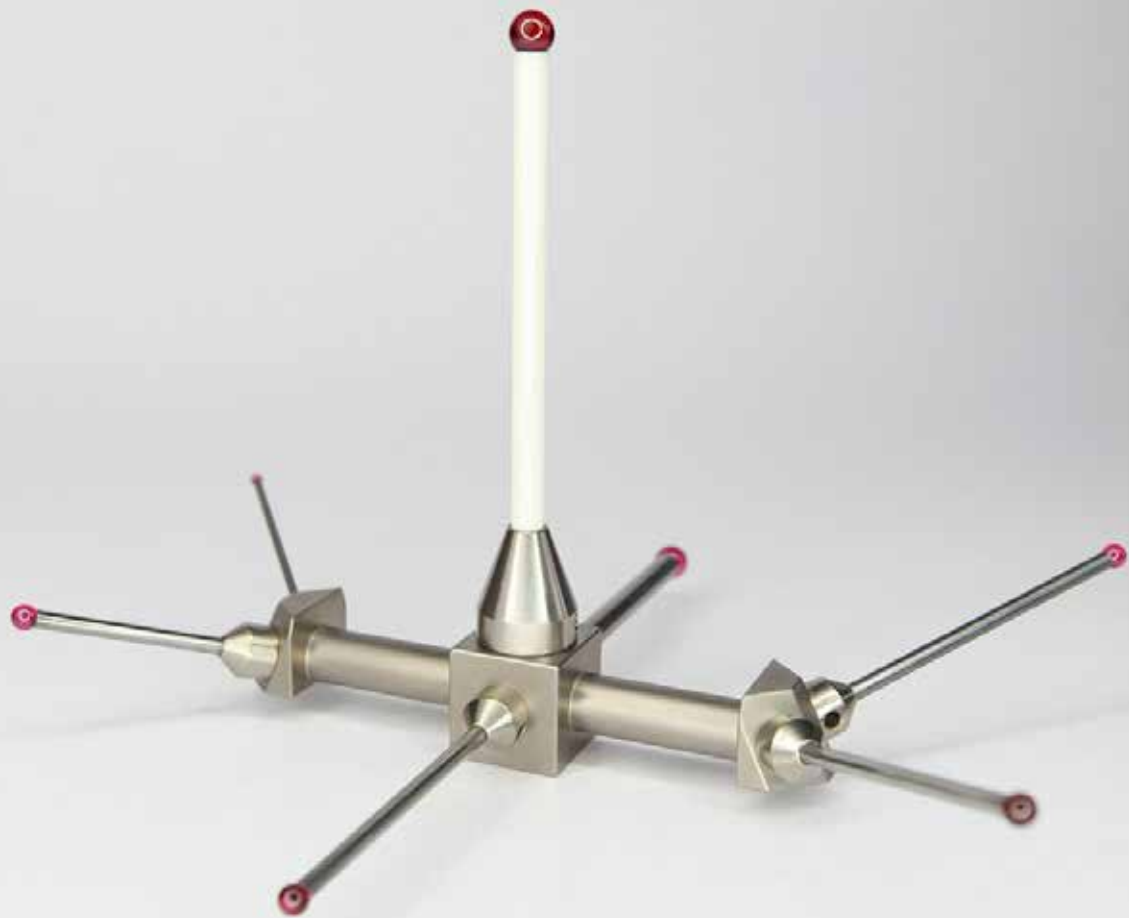


**Machine Tool Stylus**  
**M4 stainless steel**  
 stem stainless steel  
 base stainless steel

Code number – Stylus tip Material													
Ruby	Silicon nitride	Zirconium oxide	Carbide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
			K651637	M4	5	Grade 5	54	49		7	3,9		7,04



# MACHINE TOOL STYLI



# Stylus System Components for Coordinate Measuring Probe Heads

## WITH M5 THREAD

**SP80**

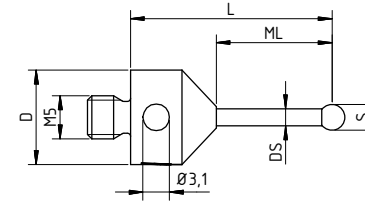
**Compatible to  
any other M5  
probe head  
system**

Please thoroughly check the specification of your probe head system to always make sure, the chosen stylus is within the manufacturers recommended range of length and mass.

**Mitutoyo**

# STYLI FOR CMM

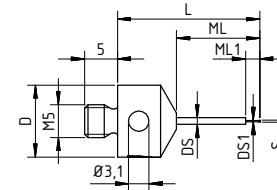
# Styli M5



**Stylus M5 carbide**  
stem tungsten carbide  
base stainless steel

Code number – Stylus tip Material

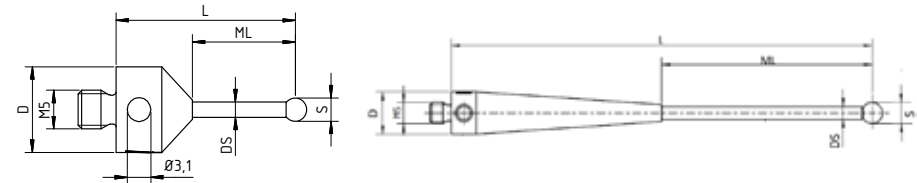
Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650688			M5	1,35	Grade 5	32,225	23,225		11	1		6,6
K650685			M5	1,5	Grade 5	32,25	23,25		11	1		6,59
K650686			M5	2	Grade 5	32,5	23,5		11	1,5		6,82
K650690			M5	2,5	Grade 5	32,75	23,75		11	1,5		6,96



**Stylus M5 carbide**  
stem tungsten carbide  
base stainless steel

Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650691			M5	0,3	Grade 5	21,65	12,65	0,2	11	1	0,2	6,44
K650692			M5	0,5	Grade 5	21,75	12,75	0,3	11	1	0,3	6,34
K650693			M5	0,6	Grade 5	21,8	12,8	0,4	11	1	0,4	6,27
K650687			M5	0,8	Grade 5	21,9	12,9	0,6	11	1	0,6	6,34
K650689			M5	1	Grade 5	22	13	0,8	11	1	0,8	6,39



**Stylus M5 carbide**  
stem tungsten carbide  
base titanium

Code number – Stylus tip Material

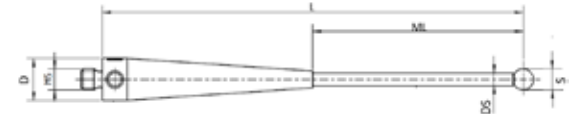
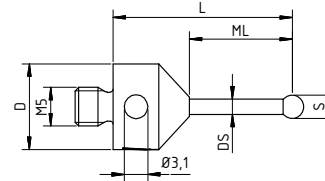
Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651475	K651533	K651537	M5	2	Grade 5	20	11		10	1		13,5
K651485			M5	2	Grade 5	30	21		10	1		4,45
K651490			M5	2	Grade 5	40	31		10	1		4,57
K651497			M5	2	Grade 5	50	41		10	1		3,12
K651498			M5	2	Grade 5	50	5		10	1		8,65
K651476			M5	2,5	Grade 5	20	11		10	1,5		3,02
K651486			M5	2,5	Grade 5	30	21		10	1,5		3,28
K651491			M5	2,5	Grade 5	40	31		10	1,5		3,55
K651499			M5	2,5	Grade 5	50	41		10	2		4,67

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side

# Styli M5

## Stylus M5 carbide

stem tungsten carbide  
base titanium



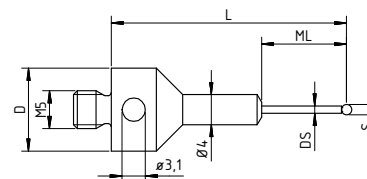
### Code number – Stylus tip Material

Code number	Material	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651500	Ruby	M5	2,5	Grade 5	50	5		10	1,5		8,73
K651477		M5	3	Grade 5	20	11		10	2		4,86
K650090	K656000	M5	3	Grade 5	23,5	13,5		11	2		3,88
K651487		M5	3	Grade 5	30	21		10	2		3,76
K650089	K656001	M5	3	Grade 5	32	22		11	2		4,29
K651623		M5	3	Grade 5	40	31		10	2		4,12
K650087	K656002	M5	3	Grade 5	48,5	38,5		11	2		4,98
K651501		M5	3	Grade 5	50	41		10	2		4,69
K650080	K656003	M5	3	Grade 5	56,5	46,5		11	2		5,38
K651515		M5	3	Grade 5	100	20		10	2		16,32
K651516		M5	3	Grade 5	100	55		10	1,5		10,13
K651478	K651534	K651538	M5	4	Grade 5	20	11	10	2		4,95
K650088	K656004		M5	4	Grade 5	31,5	21,5	11	2		4,43
K651488			M5	4	Grade 5	30	21,9	10	2		3,86
K651741			M5	4	Grade 5	50	41,9	10	2		4,41
K650085	K656005		M5	4	Grade 5	62	52	11	2		5,79
K651511			M5	4	Grade 5	75	66	10	3		9,85
K651517			M5	4	Grade 5	100	30,5	10	3		15,49
K651518			M5	4	Grade 5	100	50	10	3		15,83
K651479			M5	5	Grade 5	20	11	10	3		5,07
K651489			M5	5	Grade 5	30	21,5	10	3		5,05
K650084	K656006		M5	5	Grade 5	47,5	37,5	11	3,5		8,95
K651502	K656007		M5	5	Grade 5	50	41,5	10	3		7,32
K650086			M5	5	Grade 5	50,5	40,5	11	3,5		9,28
K650074	K656008		M5	5	Grade 5	72,5	62,5	11	3,5		12,49
K651519			M5	5	Grade 5	100	50	10	3		15,95
K651622			M5	5	Grade 5	100	91,5	10	3		12,61
K650083	K656009		M5	6	Grade 5	51	41	11	3,5		9,47
K650082	K656010		M5	7	Grade 5	51,5	41,5	11	3,5		9,76
K650078	K656011		M5	8	Grade 5	59,5	46,5	11	6		24,64
K650073	K656013		M5	8	Grade 5	71	58	11	6		29,84
K650072	K656014		M5	8	Grade 5	96	83	11	6		41,16
K650107	K656015		M5	8	Grade 5	110,5	97,5	11	6		46,24
K650076	K656018		M5	9	Grade 5	60	46	11	11		25,32
K650079	K656020		M5	10	Grade 5	60,5	52,5	11	6		25,86
K650106			M5	10	Grade 5	113	100	11	6		47,67

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side

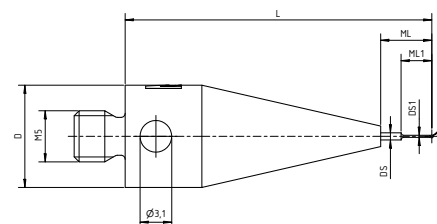
## Stylus M5 carbide

stem tungsten carbide  
base titanium



Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650648			M5	1,35	Grade 5	31,325	11,325		11	1		3,87
K650649			M5	1,35	Grade 5	43,325	18,325		11	1		4,24
K650650			M5	1,5	Grade 5	31,25	11,25		11	1		3,82
K650651			M5	1,5	Grade 5	43,25	18,25		11	1		4,24
K650652			M5	2	Grade 5	31	11		11	1,5		4,07
K650658			M5	2	Grade 5	43	18		11	1,5		4,49
K650659			M5	2	Grade 5	57	32		11	1,5		4,88
K650660			M5	2,5	Grade 5	30,75	10,75		11	1,5		4,07
K650653			M5	2,5	Grade 5	42,75	17,75		11	1,5		4,58
K650661			M5	2,5	Grade 5	56,75	31,75		11	1,5		4,9



Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651470			M5	0,3	Grade 5	20	3		10	0,7	0,2	3,81
K651480			M5	0,3	Grade 5	30	3		10	0,7	0,2	32,85
K651492			M5	0,3	Grade 5	50	3		10	0,7	0,2	9,14
K651506			M5	0,3	Grade 5	75	3		10	0,7	0,2	13,77
K651471			M5	0,5	Grade 5	20	4		10	0,7	0,4	3,81
K651481			M5	0,5	Grade 5	30	4		10	0,7	0,4	27
K651493			M5	0,5	Grade 5	50	4		10	0,7	0,4	9,13
K651507			M5	0,5	Grade 5	75	4		10	0,7	0,4	13,77

## Stylus M5 carbide, stepped

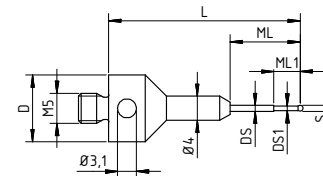
stem tungsten carbide  
base titanium



# Styli M5

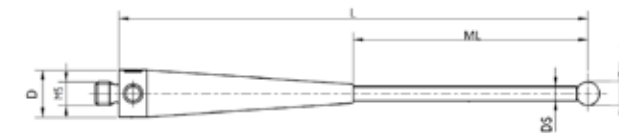
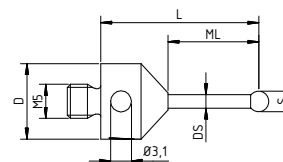
## Stylus M5 carbide, stepped

stem tungsten carbide  
base titanium



### Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650646			M5	0,8	Grade 5	31,6	11,6	4,4	11	1	0,6	3,87
K650647			M5	1	Grade 5	31,5	11,5	4,6	11	1	0,8	4,24



### Code number – Stylus tip Material

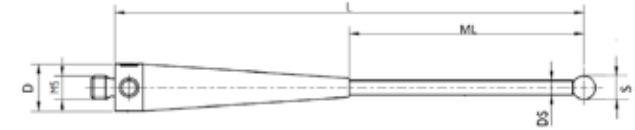
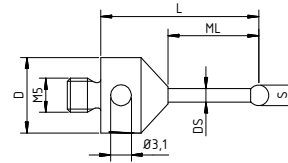
Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651711			M5	2,5	Grade 5	50	41		10	2		2,84
K651712			M5	3	Grade 5	20	41		10	2		2,71
K650162			M5	3	Grade 5	23,5	13,5		11	2		4
K651713			M5	3	Grade 5	30	21		10	2		2,76
K650163			M5	3	Grade 5	32	22		11	2		3,41
K651714			M5	3	Grade 5	40	31		10	2		2,81
K650165			M5	3	Grade 5	48,5	38,5		11	2		3,49
K651715			M5	3	Grade 5	50	41		10	2		2,86
K650166			M5	3	Grade 5	56,5	46,5		11	2		3,53
K651716			M5	4	Grade 5	20	11,4		10	2		2,77
K651717			M5	4	Grade 5	30	21,4		10	2		2,82
K650171			M5	4	Grade 5	31,5	21,94		11	2		3,47
K651718			M5	4	Grade 5	50	41,4		10	2		2,92
K650173			M5	4	Grade 5	62	52,44		11	2		3,62
K651721			M5	4	Grade 5	75	65		10	3		3,77
K651706			M5	4	Grade 5	100	50		10	3		10,81
K651707			M5	5	Grade 5	20	11,5		10	3		2,94
K651708			M5	5	Grade 5	30	21,5		10	3		3,05
K650176			M5	5	Grade 5	47,5	38		11	3,5		4,03
K651709			M5	5	Grade 5	50	41,5		10	3		3,27
K650174			M5	5	Grade 5	50,5	41		11	3,5		4,07
K650177			M5	5	Grade 5	72,5	63		11	3,5		4,41
K651720			M5	5	Grade 5	75	65,5		10	5		3,89
K651705			M5	5	Grade 5	100	57,3		10	3		10,93
K651710			M5	5	Grade 5	100	91,5		10	3		3,84
K651503	K651535	K651539	M5	6	Grade 5	50	39,5		10	4		5

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side

## Stylus M5 CFC

stem carbon fibre composite  
base titanium

Please, note that in case a short **ML** length vs. a high total length **L** is listed, the base extends to the long conical shape that is shown in the drawing on the right-hand side



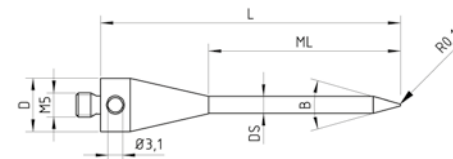
### Code number – Stylus tip Material

Ruby	Silicon nitride	Zirconium oxide	Thread	S mm	Ball Grade	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650178			M5	6	Grade 5	51	42		11	3,5		4,26
K651512			M5	6	Grade 5	75	65,1		10	4		4,51
K651520	K651536	K651540	M5	6	Grade 5	100	58,9		10	4		12,21
K651521			M5	6	Grade 5	100	90,1		10	4		5
K651526			M5	6	Grade 5	150	137		10	4		5
K651528			M5	6	Grade 5	200	187		10	4		7,6
K651530			M5	6	Grade 5	300	287		10	4,45		9,61
K650181			M5	7	Grade 5	51,5	43		11	3,5		5
K651504			M5	8	Grade 5	50	39,5		10	6		5,64
K650183			M5	8	Grade 5	59,5	48,38		11	6		6,64
K650184			M5	8	Grade 5	71	59,88		11	6		7,16
K651513			M5	8	Grade 5	75	64,5		10	6		6,77
K650185			M5	8	Grade 5	96	84,88		11	6		8,29
K651522			M5	8	Grade 5	100	50		10	6		15,47
K651523			M5	8	Grade 5	100	89,5		10	6		7,91
K650191			M5	8	Grade 5	110,5	99,38		11	6		8,95
K650192			M5	8	Grade 5	146	134,88		11	6		10,55
K650193			M5	8	Grade 5	196	184,88		11	6		12,81
K651529			M5	8	Grade 5	200	180		10	6		
K651531			M5	8	Grade 5	300	280		10	6		17,94
K650194			M5	9	Grade 5	60	50,75		11	6		7,1
K651505			M5	10	Grade 5	50	44,5		10	6		6,52
K650195			M5	10	Grade 5	60,5	53,13		11	6		7,61
K651514			M5	10	Grade 5	75	69,5		10	6		7,65
K651525			M5	10	Grade 5	100	94,5		10	6		8,78
K651524			M5	10	Grade 5	100	95,5		10	6		16,4
K650196			M5	10	Grade 5	113	105,63		11	6		9,98
K650197			M5	10	Grade 5	145	137,63		11	6		11,49
K651527			M5	10	Grade 5	150	144,5		10	6		12,06
K650198			M5	10	Grade 5	195	187,63		11	6		13,75
K651738			M5	10	Grade 5	200	194,7		10	6		13,35
K651532			M5	10	Grade 5	300	294,5		10	6		18,84

# Styli M5

## Tip stylus M5

stem tungsten carbide  
base titanium

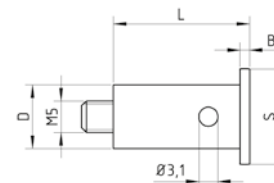


Code number	Thread	B	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651068	M5	30°	61	39		11	2,5		12,13



## Ball disc stylus M5

disc ceramic or hardened steel  
base aluminium

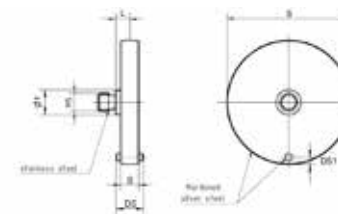


Code number	Disc material	Thread	S mm	B mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650357	steel	M5	10	1,5	21,5			7			3,57
K650356	steel	M5	15	1,5	21,5			10			6,34
K650170	ceramic	M5	15	1	40			7			5
K650164	ceramic	M5	20	1	60			7			8



## Disc stylus M5

disc hardened steel  
stem stainless steel

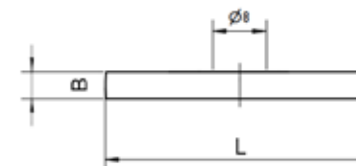


Code number	Disc material	Thread	S mm	B mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651465	steel	M5	12	3	3	3			4,8	1,5	3,7
K651466	steel	M5	35	5	4	4			7,8	2	27
K651541	steel	M5	21	3	3	3			4,8	1,5	9,2
K651542	steel	M5	63,5	5	4	5			7,8	2,25	64,98



## Disc for stylus M5

disc hardened steel  
stem stainless steel

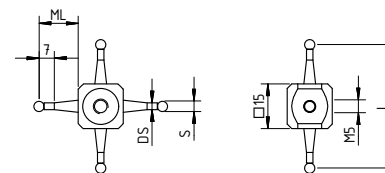


Code number	Disc material	Thread	S mm	B mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650016	steel	M5	20	4							8
K650014	steel	M5	40	4							21



### 4-way cube M5

tip ruby  
stem tungsten carbide  
body titanium

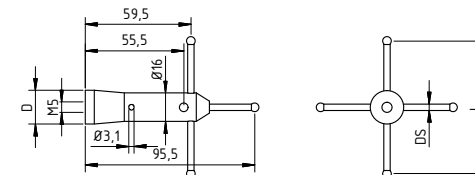


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650114	M5	1	44	14,5			0,7		15,3
K650113	M5	1,5	43,5	14,25			1,1		14,93
K650112	M5	2	43	14			1,5		15,1
K650111	M5	2,5	42,5	13,75			1,8		15,46
K650555	M5	3,5	41,5	13,25			2,2		16,64



### Multi-way stylus M5

tip ruby  
stem tungsten carbide  
base aluminium

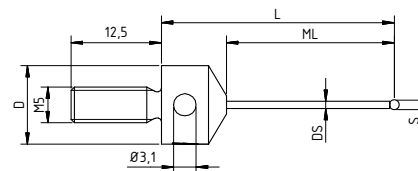


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650069	M5	5	75			19	3,5		63,05



### Stylus for multi-way stylus M5

tip ruby  
stem tungsten carbide  
base stainless steel

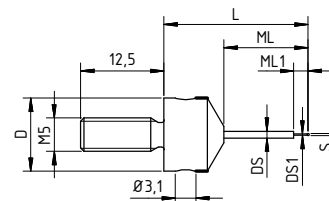


Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650324	M5	1,35	32,225	23,225		11	1		6,6
K650323	M5	1,5	32,25	23,25		11	1		6,59
K650322	M5	2	32,5	23,5		11	1,5		6,82
K650321	M5	2,5	32,75	23,75		11	1,5		6,96



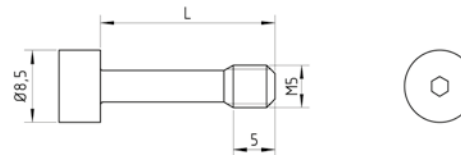
### Stylus for multi-way stylus M5, stepped

tip ruby  
stem tungsten carbide  
base stainless steel



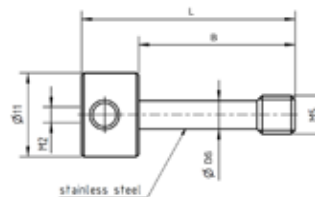
Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650329	M5	0,3	21,65	12,65	2,15	11	1	0,2	6,44
K650328	M5	0,3	21,75	12,75	2,25	11	1	0,3	6,34
K650327	M5	0,6	21,8	12,8	4,3	11	1	0,4	6,27
K650326	M5	0,8	21,9	12,9	4,4	11	1	0,6	6,34
K650325	M5	1	22	13	4,5	11	1	0,8	6,39





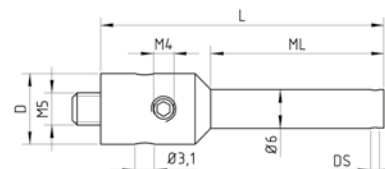
**Screw for cube M5**  
stainless steel

Code number	Thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K650070	M5			21					3,65
K650041	M5			26					4,04



**Screw for cube M5**  
stainless steel

Code number	Thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K651618	M5	20,5		28				3,75	7,18
K651620	M5	20,5		29				3,7	6,94
K651619	M5	25,5		33				3,7	7,36
K651617	M5	25,5		34				3,75	7,61



**Stylus holder M5**  
stainless steel

Code number	Thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K650361	M5		45	27,5		11	1,0-1,5		11,15

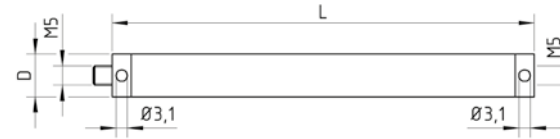
STYLI M5

# Styli Accessories M5

## Extension CFC M5 thermostable

stem carbon fibre composite  
end pieces titanium

improved bending strength  
and torsion resistance  
thermostable

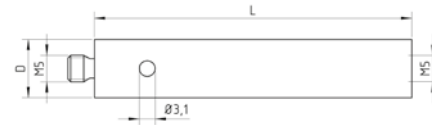


Code number	Thread	B mm	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	Weight g
K656023	M5		40			11			7,6
K656024	M5		50			11			8,3
K656025	M5		60			11			9
K656026	M5		70			11			9,7
K656027	M5		80			11			10,4
K656028	M5		90			11			11,1
K656029	M5		100			11			11,8
K656030	M5		120			11			13,2
K656031	M5		150			11			15,4
K656032	M5		180			11			17,5
K656033	M5		200			11			18,9
K656034	M5		250			11			22,4
K656035	M5		300			11			25,9
K656036	M5		400			11			33
K656037	M5		40			20			23,8
K656038	M5		50			20			25,1
K656039	M5		60			20			26,5
K656040	M5		80			20			29,3
K656041	M5		100			20			32,1
K656042	M5		120			20			34,9
K656043	M5		150			20			39
K656044	M5		180			20			43,2
K656045	M5		200			20			46
K656046	M5		250			20			52,9
K656047	M5		300			20			59,9
K656048	M5		400			20			73,8
K656049	M5		500			20			87,7
K656050	M5		600			20			101,5





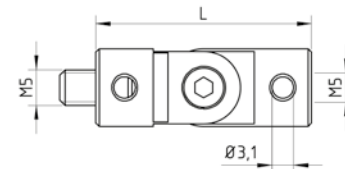
**Extension steel M5**  
stainless steel



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650341	M5		10			11			6,16
K650342	M5		15			11			9,74
K650343	M5		20			11			13,04
K651632	M5		30			11			20,9
K650344	M5		40			11			27,51
K651633	M5		50			11			35,8
K650345	M5		60			11			42,76
K650301	M5		80			11			57,01
K650302	M5		100			11			73,17



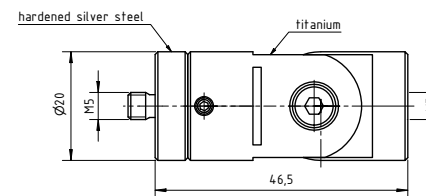
**Swivel joint M5**  
titanium



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650054	M5		20			11			10,88
K650053	M5		36			18			36,49



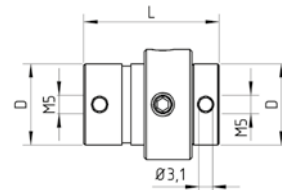
**Swivel joint M5, adjustable**  
titanium - hardened steel



Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651450	M5		46,5			20			67,81

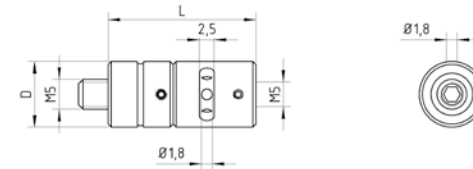


**Swivel piece M5**  
titanium



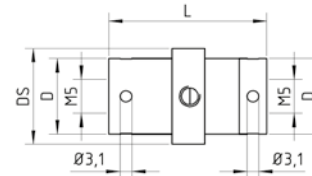
Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650049	M5		30			18			43,39

# Styli Accessories M5



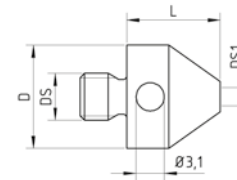
**Swivel piece piezo M5**  
titanium

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650627	M5		25			11			10,76
K650047	M5		25			18			26,1



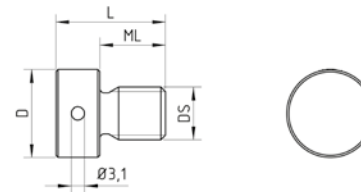
**Swivel piece M5**  
titanium - hardened steel  
patented

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650977	M5	23				11	14		11,92
K650976	M5	26,7				18	19,8		33,68



**Adapter M5**  
stainless steel

Code number	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650448	10				11	M5	M2	4,9
K650447	10				11	M5	M3	4,78
K650960	10				11	M5	M4	4,6



**Thread insert M5**  
stainless steel

Code number	Thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650026			16	10		10	M4		3,57
K650025			16	10		10	M5		4,67
K650024			18	12		12	M6		7,04
K650023			20	12		15	M8		13,82
K650022			25	15		18	M10		25,91
K650057			25	15		20	M12		32,96

# Mitutoyo manual loading systems for CMM

## Clamping and loading systems for all coordinate measuring machines

The Mitutoyo loading system puts your components in a reproducible and spatially aligned position on the measuring table. Manufacturer-specific properties, even as individual special solutions can easily be realized.

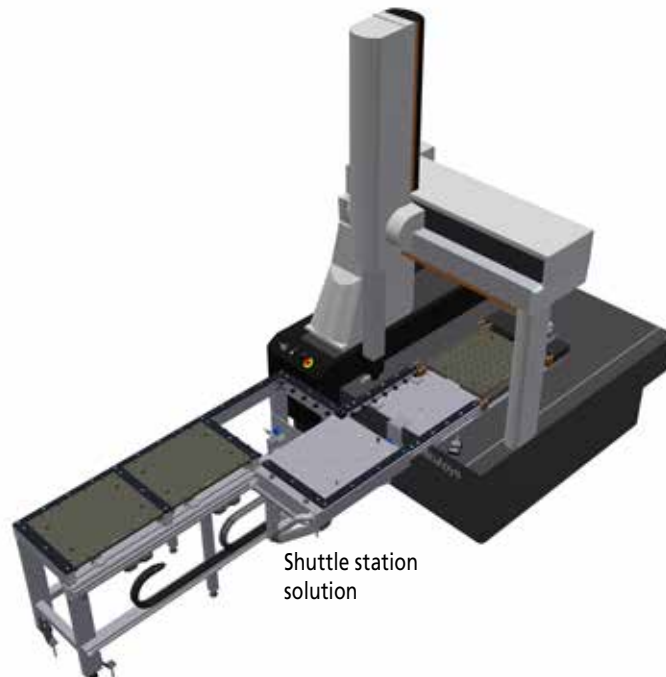
### Delivery to measuring table

- pallet supply by operator side or rear side
- transport section designed as a ball conveyor attached to measuring table
- pneumatic lift on 3-point ball support
- pallet transport manually or automatically by means of a pneumatically operated loading machine

### Customizable pallet system

- Available with threaded grid pattern or without

Pallet size	Maximum handling capacity
250 x 250 mm	60 kg
500 x 400 mm	120 kg
600 x 600 mm	250 kg



## Boost your efficiency

Short downtimes can be realized by fast exchange of parts. The measurement process may be started immediately, depending on the spatially aligned positioning of the palletized test sample in the measured volume.

Contact us for more details

LOADING SYSTEMS FOR CMM



# CUSTOM STYLI

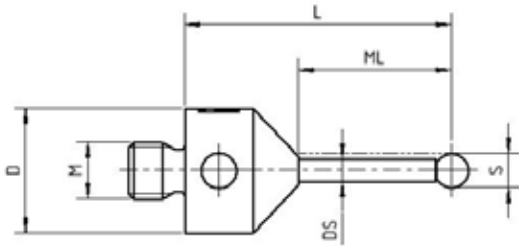
With over 40 years of experience in the production of styli systems, we supply the highest quality in workmanship and materials for the highest demands for probe systems from all manufacturers.

Mitutoyo

CUSTOM STYLI

# Custom Styli Requestform

## Straight Styli



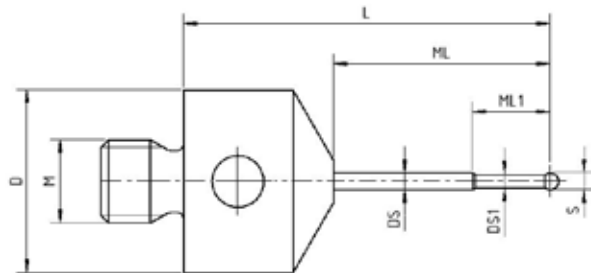
### Stylus specification

- Thread:  M2  M3  M4  M5  Other
- Tip material:  Ruby  Silicon nitride  Zirconium oxide  Solid diamond  Diamond Coated
- Stem material:  Tungsten carbide  Stainless steel  Ceramic  Carbon fibre
- Base material:  Stainless steel  Titanium

### Stylus dimensions

S	L	ML	ML1	DS	DS1	D	Quantity

## Stepped Styli



### Probe data

Type of probe

Workpiece material

### Application

Scanning

Touch trigger

### Additional information

### Your contact data

Company:

Department:  Street:

Post code:  City:

Name:  First name:

E-Mail:  Telephone:

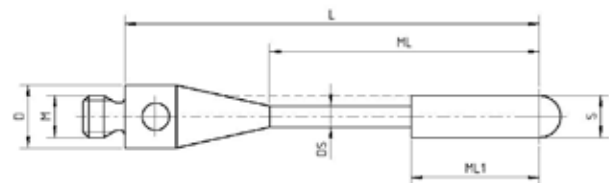
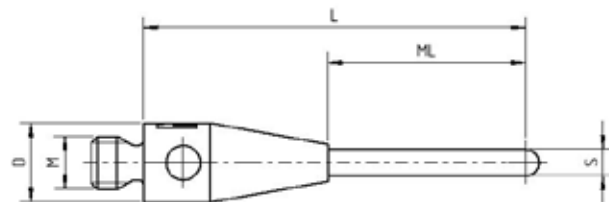
Country:

Please fill out the orange panels and add required dimensions in mm.  
Send by E-Mail to:  
[custom.styli@mitutoyo.eu](mailto:custom.styli@mitutoyo.eu)

In case none of our forms fit your requirements, please add as much information as possible regarding the required stylus, as well as a drawing.

# Custom Styli Requestform

## Cylinder Styli



### Stylus specification

- Thread:  M2  M3  M4  M5  Other
- Tip material:  Ruby  Stainless steel  Ceramic  Tungsten carbide
- Stem material:  Tungsten carbide  Stainless steel  Ceramic  Carbon fibre
- Base material:  Stainless steel  Titanium

### Stylus dimensions

S	L	ML	ML1	DS	DS1	D	Quantity

### Probe data

Type of probe

Workpiece material

### Application

Scanning

Touch trigger

### Additional information

### Your contact data

Company:

Department:  Street:

Post code:  City:

Name:  First name:

E-Mail:  Telephone:

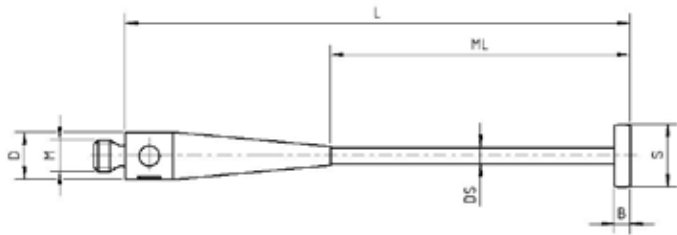
Country:

Please fill out the orange panels and add required dimensions in mm.  
Send by E-Mail to:  
[custom.styli@mitutoyo.eu](mailto:custom.styli@mitutoyo.eu)

In case none of our forms fit your requirements, please add as much information as possible regarding the required stylus, as well as a drawing.

# Custom Styli Requestform

## Disc Styli



If a ball or roller is required, please specify height:



### Stylus specification

- Thread:  M2  M3  M4  M5  Other
- Tip material:  Ruby  Stainless steel  Ceramic  Tungsten carbide
- Stem material:  Tungsten carbide  Stainless steel  Ceramic  Carbon fibre
- Base material:  Stainless steel  Titanium

### Stylus dimensions

S	L	ML	ML1	DS	DS1	D	Quantity
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Probe data

- Type of probe
- Workpiece material

### Application

- Scanning
- Touch trigger

### Additional information

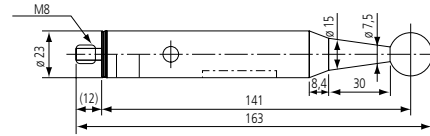
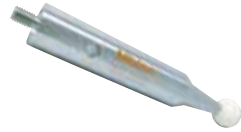
### Your contact data

- Company:
- Department:  Street:
- Post code:  City:
- Name:  First name:
- E-Mail:  Telephone:
- Country:

Please fill out the orange panels and add required dimensions in mm.  
Send by E-Mail to:  
[custom.styli@mitutoyo.eu](mailto:custom.styli@mitutoyo.eu)

In case none of our forms fit your requirements, please add as much information as possible regarding the required stylus, as well as a drawing.





### Master ball

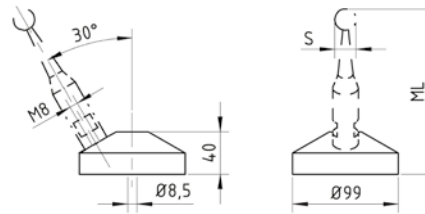
Base: Stainless Steel

Tip:

Ruby (Ø 10 mm)

Ceramic (Ø 20 mm)

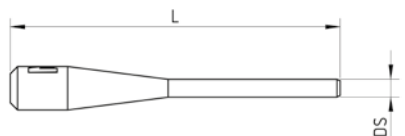
Code number	S mm	L mm	Description	Weight g
06ABH830D	10		incl. factory certificate	100
06ABM941D	20		"High Accuracy Master Ball (e.g. for LEGEX and FALCIO-Apex Series) Incl. Calibration Certificate from Swiss National Laboratory METAS"	505
06ABM944D	20		Standard Master Ball	500



### Base plate for calibration sphere

stainless steel

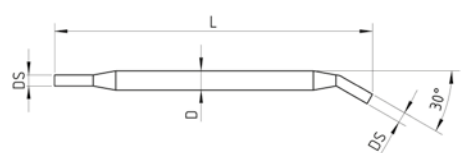
Code number	S mm	L mm	Description	Weight g
06ACC565D		141		1.200



### Pin spanner

stainless steel or hardened steel

Code number	For stylus with thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K651224	M4		35				1,9		3,5



### Pin spanner

stainless steel or hardened steel

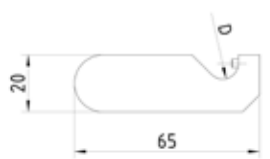
Code number	For stylus with thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650346	M4		49				1,7		1
K650347	M5		70				2,9		7,5



### Hook spanner

stainless Steel or hardened steel for tightening CFC extensions

Code number	For stylus with thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650500	M4		110			21			1
K650501	M5		110			11			1



### Hook spanner M5

stainless steel or hardened steel

Code number	For stylus with thread	S mm	L mm	ML mm	ML 1 mm	D mm	DS mm	DS 1 mm	Weight g
K650376			65			11			1

# StyliCleaner®

The integrated  
solution for  
automatic stylus  
tip cleaning

Improve reliability of  
measurement results  
and reduce machine  
downtime caused by  
manual cleaning and  
human error



StyliCleaner®

### Risk at manual styli cleaning

- Contaminations on the styli elements lead to significant deviations in the measurement results.
- Cleaning the stylus elements is time consuming and requires a high level of expertise.
- Human error can lead to damage and misplacement of the stylus
- This leads to downtimes in which measurements cannot be made.

### Solution

- Human error is avoided
- Planning of automatic cleaning cycles to remove dust, oil or chips from spherical stylus elements.
- The cleaning cycle can be coupled to the calibration cycle, for example.
- The cleaning program can also be initiated by less qualified personnel using a bar or QR code.

### Cleaning process

The stylus tip element is cleaned with cleaning agent for 10 seconds and then for 10 seconds dried residue-free with compressed air.  
Great increase in efficiency.



Cost efficiency calculation		Hourly machine rate	80,00 €		
		Number of Shifts	1		
		Working days per year	250		
Manual cleaning					
Downtime by cleaning per stylus	3	Minutes	Results	Daily	Yearly
Realignment in the rack by CNC program per stylus holder	0,5	Minutes	Minutes downtime	21	87,5
Number of Styli	6	Qty.	Cost	28,00 €	7.000,00 €
StyliCleaner®					
Downtime by cleaning per stylus	0,5	Minutes	Results	Daily	Yearly
Realignment in the rack by CNC program per stylus holder	0	Minutes	Minutes downtime	3	12,5
Number of Styli	6	Qty.	Cost	4,00 €	1.000,00 €

Manual cleaning	StyliCleaner®
High manual effort	Automated cleaning cycle (part program)
Longer machine downtime	Only short interruption of measurement
High qualification required	Re-datuming not required
Risk of damage especially with small stylus tips	Significantly increased efficiency



Contaminated stylus tip

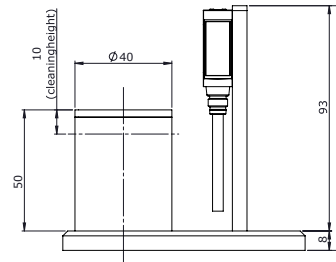
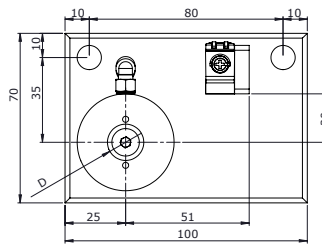
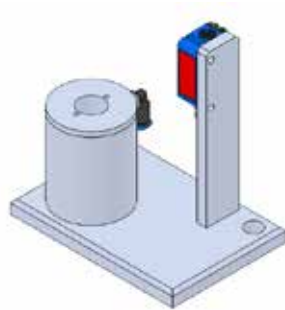


Cleaned stylus tip

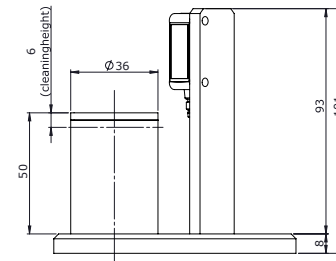
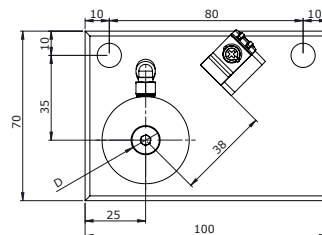
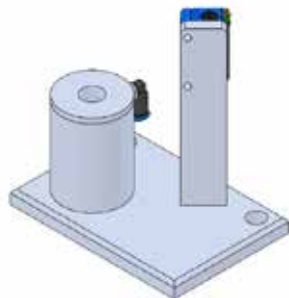


## Model overview

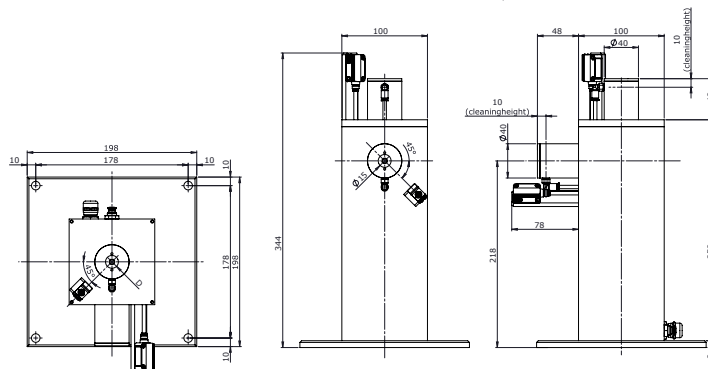
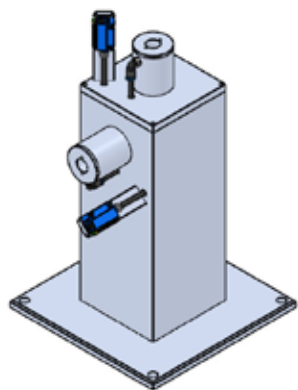
Code number	Description	Applicability	Cleaning tubes	indexable probe holder available	stylus diameter	minimum stylus length	Cleaning height from the top
63AAA102	StyliCleaner® SC1 for straight styli	straight styli	1		0-8,0mm	20,0mm	10,0mm
63AAA132	StyliCleaner® SC1B for straight styli	straight styli	1		6,0 - 12,0mm	20,0mm	10,0mm
63AAA133	StyliCleaner® SC1S for straight styli	straight styli	1		0-4,0mm	10,0mm	6,0mm
63AAA134	StyliCleaner® SC2 for star styli	star styli	2	yes	0-8,0mm	20,0mm	10,0mm
63AAA135	StyliCleaner® SC2B for star styli	star styli	2	yes	6,0 - 12,0mm	20,0mm	10,0mm
63AAA044	StyliCleaner® SC5 for star styli	star styli	5	no	0-8,0mm	20,0mm	10,0mm
63AAA136	StyliCleaner® SC5B for star styli	star styli	5	no	6,0 - 12,0mm	20,0mm	10,0mm



Code number	Description		D
63AAA102	StyliCleaner® SC1 for straight styli	stylus diameter 0-8,0mm, minimum stylus length 20,0mm	15mm
63AAA132	StyliCleaner® SC1B for straight styli	stylus diameter 6,0 - 12,0mm, minimum stylus length 20,0mm	20mm

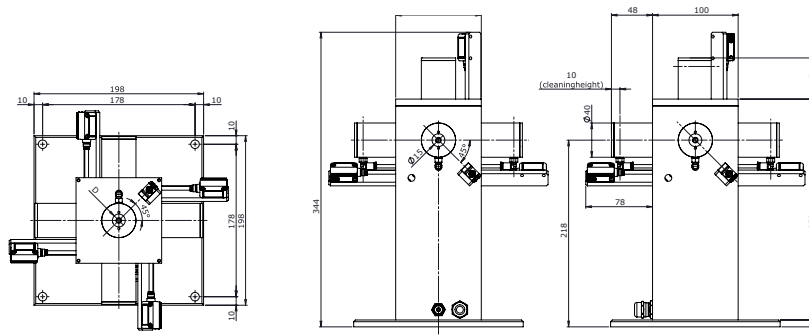
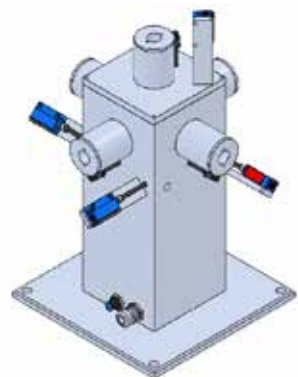


Code number	Description		D
63AAA133	StyliCleaner® SC1S for straight styli	stylus diameter 0-4,0mm, minimum stylus length 20,0mm	12mm



Code number	Description		D
63AAA134	StyliCleaner® SC2 for star styli	stylus diameter 0-8,0mm, minimum stylus length 20,0mm	15mm
63AAA135	StyliCleaner® SC2B for star styli	stylus diameter 6,0 - 12,0mm, minimum stylus length 20,0mm	20mm

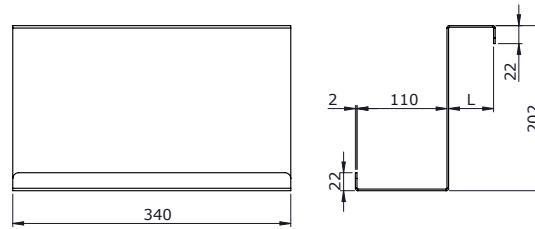
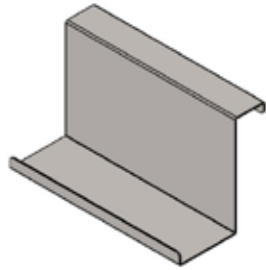
To be used if indexable probe holder is available



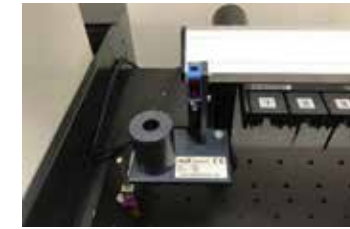
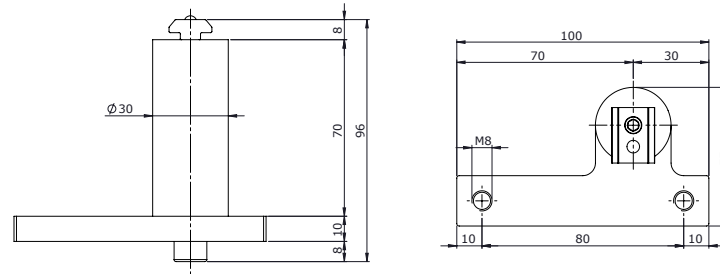
Code number	Description		D
63AAA044	StyliCleaner® SC5 for star styli	stylus diameter 0-8,0mm, minimum stylus length 20,0mm	15mm
63AAA136	StyliCleaner® SC5B for star styli	stylus diameter 6,0 - 12,0mm, minimum stylus length 20,0mm	20mm

To be used if indexable probe holder is not available

StyliCleaner®



Code number	Description		L
63AAA103	Holder plate SC1 HP-1	for StyliCleaner® air unit	55mm
63AAA137	Holder plate SC1 HP-2	for StyliCleaner® air unit	25mm



Code number	Description		
63AAA117	MRS Rack Adapter SC1-MB	for StyliCleaner® SC1 models	



# Styli Cross Reference Table

Compare code numbers to find the suitable Mitutoyo product



# STYLI FOR CMM

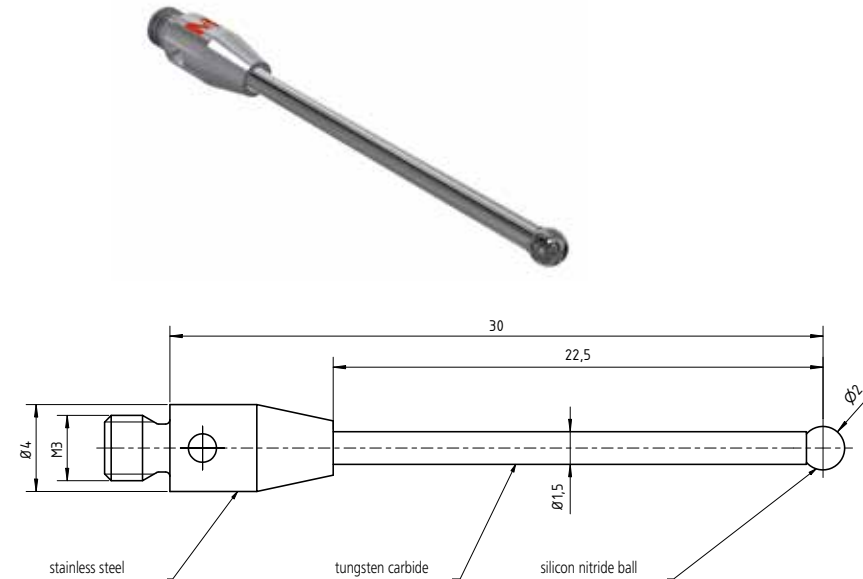
# Stylus description protocol system

Mitutoyo uses a description system to specify all styli and related products. The following parameters are used when they apply to the product:

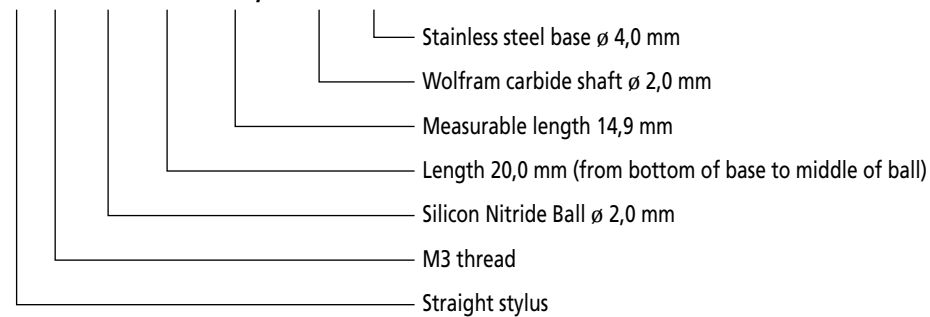
- **Product Type** – type of stylus and accessory
- **Thread** – connecting thread
- **Tip Material and diameter**
- **Total Length** – L
- **Measurable length** – ML/ML1
- **Shaft material and diameter** – DS/DS1
- **Base material and diameter**

## Description protocol system example: Straight stylus

Code		Description protocol
K651433	Stylus M3 silicon nitride ball Ø2,0mm	01-M3-SiN2-L30-ML22,5-SWC1-BS4

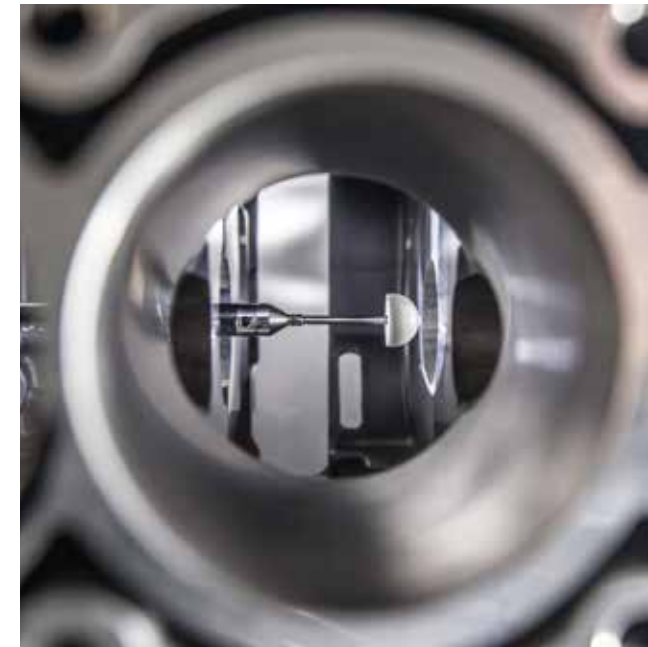


### 01-M3-SiN2-L30-ML22,5-SWC1-BS4



# Stylus description protocol table

01	M5	R8	Lx	MLxx/xx	SWCx/x	Bx
<b>Product Type</b>	Thread	Tip Material / Ø	Total Length	Measurable length ML/ML1	Shaft material / ØDS/DS1	Base material / Ø
<b>01: Straight Stylus</b>	M2	R: Ruby Ball	X length in mm	X length in mm	SWC: Wolfram Carbide	BS: Stainless Steel
<b>02: Cylinder Stylus</b>	M3	SiN: Silicon Nitride Ball			SCER: Ceramics	BAI: Aluminium
<b>03: Disc Stylus</b>	M4	Z: Zirconia Ball			SCFC: carbon fibre composite	BTi: Titanium
<b>04: Multi way stylus</b>	M5	D: Diamond Ball			SS: Stainless steel	
<b>05: Ball Disc Stylus</b>		DC: Diamond Coated Ball			SAL: Aluminium	
<b>06: Extension</b>		RC: Ruby Cylinder				
<b>07: Adapter</b>		CC: Carbide Cylinder			X length in mm	X diameter in mm
<b>08: Knuckle &amp; Cube</b>		SC: Stainless Steel Cylinder				
<b>09: Joint</b>		BDC: Ball Disc Ceramic				
<b>10-X: Holder -X number of receiver positions</b>						
<b>11: Tool</b>		DR: Ruby Disc				
<b>12: Accessory</b>		DS: Steel Disc				



## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651061</b>	M2	Adapters	Adapter M2-M3 stainless steel	07-M2-M3-L5-SS4	<b>K651061</b>	A-5555-0306		602030-0215-000	RM5-M2	
<b>K651062</b>	M2	Adapters	Adapter M2-M3 stainless steel	07-M2-M3-L7-SS4	<b>K651062</b>	A-5004-7593	M-5000-4164	602030-8345-000	RM2-M3	
<b>K651063</b>	M2	Adapters	Adapter M2-M3 stainless steel	07-M2-M3-L10-SS4	<b>K651063</b>					
<b>K651064</b>	M2	Adapters	Adapter M2-M3 stainless steel	07-M2-M3-L10-SS5	<b>K651064</b>					
<b>K651030</b>	M2	Cylinder Styli	Cylinder stylus M2 stainless steel 1,5mm	02-M2-SC1,5-L10,75-ML5,25/1,2-SS1-BS3	<b>K651030</b>	A-5004-7589	M-5000-4152		TM2-1511-CYL	
<b>K651031</b>	M2	Cylinder Styli	Cylinder stylus M2 stainless steel 3,0mm	02-M2-SC3-L12,25-ML9,75/3,25-SS1,5-BS3	<b>K651031</b>	A-5004-7590	M-5000-4153		TM2-3013-CYL	
<b>K651032</b>	M2	Cylinder Styli	Cylinder stylus M2 ruby Ø2,0mm	02-M2-RC2-L20-ML13/7,2-SWC1,5-BS3	<b>K651032</b>	A-5000-7812			TM2-2021-B	
<b>K651033</b>	M2	Cylinder Styli	Cylinder stylus M2 ruby Ø4,0mm	02-M2-RC4-L20-ML13/8,5-SWC1,5-BS3	<b>K651033</b>	A-503-0073				
<b>K651034</b>	M2	Cylinder Styli	Cylinder stylus M2 ruby Ø1,0mm	02-M2-RC1-L14,5-ML7,5-BS3	<b>K651034</b>	A-5000-8876			TM2-1015-B	
<b>K651035</b>	M2	Cylinder Styli	Cylinder stylus M2 ruby Ø1,5mm	02-M2-RC1,5-L14,25-ML7,25-BS3	<b>K651035</b>	A-5000-8877			TM2-1515-B	
<b>K651036</b>	M2	Cylinder Styli	Cylinder stylus M2 carbide Ø2,0mm	02-M2-RC2-L39-ML31-BS3	<b>K651036</b>	A-5003-0074			TM2-2040-BC	
<b>K651342</b>	M2	Cylinder Styli	Cylinder stylus M2 Ø0,5mm	02-M2-CC0,5-L15-ML9-BS3	<b>K651342</b>	A-5003-1210			TM2-0515-BC	
<b>K651343</b>	M2	Cylinder Styli	Cylinder stylus M2 Ø1	02-M2-CC1/0,5-L35,5-ML28-SWC1-BS3	<b>K651343</b>	A-5003-1218			TM2-1036-BC	03969278
<b>K651458</b>	M2	Cylinder Styli	Cylinder stylus M2, carbide 2,0mm	02-M2-CC2-L15-ML7,5-SWC2-BS3	<b>K651458</b>	A-5003-1228			TM2-2016-BC	
<b>K651459</b>	M2	Cylinder Styli	Cylinder stylus M2, carbide 3,0mm	02-M2-CC3-L22,5-ML21-SWC3-BS3	<b>K651459</b>	A-5003-1258			TM2-3023-BC	
<b>K651460</b>	M2	Cylinder Styli	Cylinder stylus M2, carbide 3,0mm	02-M2-CC3-L39-ML7-SWC3-BS3	<b>K651460</b>	A-5003-3545				
<b>K650243</b>	M2	Diamond coated styli	Stylus M2 diamond coated ball 1,05mm	01-M2-DC1,05-L20-ML7-SWC0,7-BS3	<b>K650243</b>					
<b>K650242</b>	M2	Diamond coated styli	Stylus M2 diamond coated ball 1,05mm	01-M2-DC1,05-L10-ML6-SWC0,8-BS3	<b>K650242</b>					
<b>K650245</b>	M2	Diamond coated styli	Stylus M2 diamond coated ball 2,05mm	01-M2-DC2,05-L20-ML15-SWC1-BS3	<b>K650245</b>					
<b>K650250</b>	M2	Diamond coated styli	Stylus M2 diamond coated ball 3,05mm	01-M2-DC3,05-L20-ML17-SWC1,5-BS3	<b>K650250</b>					
<b>K650255</b>	M2	Diamond coated styli	Stylus M2 diamond coated ball 5,05mm	01-M2-DC5,05-L40-ML40-SWC2,5-BS3	<b>K650255</b>					
<b>K651772</b>	M2	Diamond coated styli	Stylus M2 diamond coated ball 2,05mm	01-M2-DC2,05-L40-ML32,5-SWC1,5-BS3	<b>K651772</b>					
<b>K651773</b>	M2	Diamond coated styli	Stylus M2 diamond coated ball 3,05mm	01-M2-DC3,05-L50-ML47,5-SWC2-BS3	<b>K651773</b>					
<b>K651081</b>	M2	Disc Styli	Disk stylus, hardened steel M2 Ø18,0mm	03-M2-DS18/2,3-B3-L2,6-BS3	<b>K651081</b>	A-5000-3613				
<b>K651082</b>	M2	Disc Styli	Disk stylus, hardened steel M2 Ø25,0mm	03-M2-DS25/3,1-L2,5-BS3	<b>K651082</b>	A-5000-4187				
<b>K651083</b>	M2	Disc Styli	Disk stylus, hardened steel M2 Ø18,0mm	03-M2-DS181,6-B2,5-L7,5-BS3	<b>K651083</b>	A-5000-7809				
<b>K651084</b>	M2	Disc Styli	Disk stylus, hardened steel M2 Ø25,0mm	03-M2-DS25/1,6-B2,5-L7,5-BS3	<b>K651084</b>	A-5000-7810				
<b>K651085</b>	M2	Disc Styli	Disk stylus, ruby M2 Ø6,0mm	03-M2-DR6/1,2-B2-L10-BS3	<b>K651085</b>	A-5000-3611				
<b>K651086</b>	M2	Disc Styli	Disk stylus, ruby M2 Ø4,0mm	03-M2-DR4/1-L32-ML19-SWC1-BS3	<b>K651086</b>	A-5555-0298		602030-8202-000		
<b>K651087</b>	M2	Disc Styli	Disk stylus, ruby M2 Ø8,0mm	03-M2-DR8/1,5-L32-ML19-SWC1-BS3	<b>K651087</b>	A-5555-0297		602030-8201-000		
<b>K651037</b>	M2	Extensions	Extension M2, stainless steel L 5,0mm	06-M2-L5-SS3	<b>K651037</b>	A-5004-7610	M-5000-7634	602030-8321-000	VM2-5	
<b>K651038</b>	M2	Extensions	Extension M2, stainless steel L 10,0mm	06-M2-L10-SS3	<b>K651038</b>	A-5004-7585	M-5000-3647	602030-8322-000	VM2-10	
<b>K651039</b>	M2	Extensions	Extension M2, stainless steel L 20,0mm	06-M2-L20-SS3	<b>K651039</b>	A-5004-7586	M-5000-3648	602030-8323-000	VM2-20	
<b>K651040</b>	M2	Extensions	Extension M2, stainless steel L 30,0mm	06-M2-L30-SS3	<b>K651040</b>	A-5004-7591	M-5000-4162	602030-8324-000	VM2-30	
<b>K651041</b>	M2	Extensions	Extension M2, stainless steel L 40,0mm	06-M2-L40-SS3	<b>K651041</b>	A-5004-7611	M-5000-7779	602030-8325-000	VM2-40	
<b>K651042</b>	M2	Extensions	Extension M2, stainless steel L 60,0mm	06-M2-L60-SS3	<b>K651042</b>		M-5000-3721			
<b>K651043</b>	M2	Extensions	Extension M2, stainless steel L 90,0mm	06-M2-L90-SS3	<b>K651043</b>		M-5000-3720			
<b>K651044</b>	M2	Extensions	Extension M2, ceramic L 30,0mm	06-M2-L30-SCER3-BS3	<b>K651044</b>	A-5003-0070			VM2-30-C	
<b>K651045</b>	M2	Extensions	Extension M2, ceramic L 40,0mm	06-M2-L40-SCER3-BS3	<b>K651045</b>	A-5003-0071			VM2-40-C	
<b>K651046</b>	M2	Extensions	Extension M2, ceramic L 60,0mm	06-M2-L60-SCER3-BS3	<b>K651046</b>	A-5003-0072			VM2-50-C	
<b>K651047</b>	M2	Extensions	Extension M2, ceramic L 90,0mm	06-M2-L90-SCER3-BS3	<b>K651047</b>					

## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651350</b>	M2	Extensions	Extension M2, carbon fiber L 40,0mm	06-M2-L40-SCFC3-BS3	<b>K651350</b>	A-5003-2280			VM2-40-G	
<b>K651351</b>	M2	Extensions	Extension M2, carbon fiber L 50,0mm	06-M2-L50-SCFC3-BS3	<b>K651351</b>	A-5003-2281			VM2-50-G	
<b>K651352</b>	M2	Extensions	Extension M2, carbon fiber L 70,0mm	06-M2-L70-SCFC3-BS3	<b>K651352</b>	A-5003-2282			VM2-70-G	
<b>K651353</b>	M2	Extensions	Extension M2, carbon fiber L 90,0mm	06-M2-L90-SCFC3-BS3	<b>K651353</b>	A-5003-2283			VM2-90-G	
<b>K651583</b>	M2	Extensions	Extension M2, ceramic L20,0mm	06-M2-L20-SCER3-BS3	<b>K651583</b>					
<b>K651584</b>	M2	Extensions	Extension M2, ceramic L80,0mm	06-M2-L80-SCER3-BS3	<b>K651584</b>					
<b>K651057</b>	M2	Holders	5-way stylus holder M2, fixed	10-5-M2-L8,5-ML7-BS7	<b>K651057</b>					
<b>K651058</b>	M2	Holders	5-way stylus holder M2, rotatable	10-5-M2-L7,5-ML6-BS7	<b>K651058</b>					
<b>K651059</b>	M2	Holders	5-way stylus holder M2, large rotatable	10-5-M2-L9,1-ML5,3-BS10	<b>K651059</b>			602030-9104-000		
<b>K651060</b>	M2	Holders	5-way stylus holder M2, small fixed	10-5-M2-L5,4-ML2,9-BS6	<b>K651060</b>			602030-9103-000		
<b>K651065</b>	M2	Holders	Stylus holder M2 for Ø1,0mm G7 stylus	10-1-M2-L8-BS6-BH1G7	<b>K651065</b>					
<b>K651066</b>	M2	Holders	Stylus holder M2 for Ø1,5mm G7 stylus	10-1-M2-L8-BS6-BH1,5G7	<b>K651066</b>					
<b>K651067</b>	M2	Holders	Stylus holder M2 for Ø2,0mm G7 stylus	10-1-M2-L8-BS6-BH2G7	<b>K651067</b>					
<b>K651362</b>	M2	Holders	Stylus holder M2 for Ø0,5mm G7 stylus	10-1-M2-L8-BS6-BH0,5G7	<b>K651362</b>					
<b>K651558</b>	M2	Holders			<b>K651558</b>	A-5000-3627		602030-8381-000	KM2-10	
<b>K651100</b>	M2	Joints	Knuckle joint M2, stainless steel	09-M2-L8-offset4,5-BS	<b>K651100</b>	A-5000-7534		602030-9101-000	GM2-16	
<b>K651101</b>	M2	Joints	Knuckle/swivel joint M2, stainl. steel	09-M2-L17,2-ML3,4-SS4-BS3,5	<b>K651101</b>	A-5000-9902		602030-9105-000		
<b>K651446</b>	M2	Joints	Joint M2, stainless steel	09-M2-L13,56-BS	<b>K651446</b>	A-5003-4697				
<b>K650315</b>	M2	Solid diamond styli	Stylus M2 solid diamond ball Ø0,3mm	01-M2-SD0,3-L10-ML4-SWC0,2-BS3	<b>K650315</b>					
<b>K650316</b>	M2	Solid diamond styli	Stylus M2 solid diamond ball Ø0,6mm	01-M2-SD0,6-L20-ML4-SWC0,3-BS3	<b>K650316</b>					
<b>K650157</b>	M2	Star-Styli	4-way stylus M2 ruby ball Ø1,0mm	04-M2-R1-L20-ML6/7,5-SWC0,7-BS3	<b>K650157</b>	A-5003-4788			STR2-1020	03969423
<b>K650451</b>	M2	Star-Styli	5-way stylus M2 ruby ball Ø2,0mm	04-M2-R2-L20-ML7,2/18,5-SWC1,4/2-BS	<b>K650451</b>	A-5000-7629			STR2-2020	
<b>K651052</b>	M2	Star-Styli	4-way stylus M2 ruby ball Ø1,0mm	04-M2-R1-L10-ML2,5/6-SWC0,7-BS3	<b>K651052</b>	A-5000-7811			STR2-1010	
<b>K651053</b>	M2	Star-Styli	5-way stylus M2 ruby ball Ø2,0mm	04-M2-R2-L18-ML5,25/16,5-SWC1,4/2-BS	<b>K651053</b>	A-5000-7629			STR2-2020	
<b>K651054</b>	M2	Star-Styli	5-way stylus M2 ruby ball Ø2,0mm	04-M2-R2-L30-ML10,75/16,5-SWC1,4/2-BS	<b>K651054</b>	A-5000-3626			STR2-2030	
<b>K651452</b>	M2	Star-Styli	4-way stylus M2 ruby ball 0,5mm	04-M2-R0,5-L10-ML7,5/2,5-SWC0,3-BS3	<b>K651452</b>	A-5003-4011		000000-1776-939	STR2-0510	
<b>K651453</b>	M2	Star-Styli	4-way stylus M2 ruby ball 0,5mm	04-M2-R0,5-L20-ML7,5/7-SWC0,3-BS3	<b>K651453</b>	A-5003-4787		000000-1776-940	STR2-0520	
<b>K651454</b>	M2	Star-Styli	4-way stylus M2 ruby ball 1,0mm	04-M2-R1-L210-ML7,5/7,5-SWC0,7-BS3	<b>K651454</b>	A-5003-4788		000000-1776-941	STR2-1020	
<b>K650866</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L20-ML20-SWC2-BS3	<b>K650866</b>					
<b>K651003</b>	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L10-ML10-SS2-BS3	<b>K651003</b>					
<b>K651004</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L20-ML20-SS2-BS3	<b>K651004</b>					
<b>K651005</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L20-ML20-SS2-BS3	<b>K651005</b>					
<b>K651006</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L30-ML30-SS2-BS3	<b>K651006</b>	A-5003-1370			TM2-4032-C	
<b>K651007</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L30-ML30-SS2-BS3	<b>K651007</b>	A-5003-4779				
<b>K651008</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L40-ML40-SS2-BS3	<b>K651008</b>					
<b>K651009</b>	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L50-ML47,5-SS2-BS3	<b>K651009</b>	A-5003-0064			TM2-3051.5-C	
<b>K651010</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L50-ML50-SS2-BS3	<b>K651010</b>	A-5003-0065			TM2-4052-C	
<b>K651011</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L50-ML50-SS2,5-BS3	<b>K651011</b>	A-5003-0066				
<b>K651012</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,0mm	01-M2-R1-L10-ML4,9-SS0,7-BS3	<b>K651012</b>	A-5000-7806			TM2-1010-S	
<b>K651013</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,5mm	01-M2-R1,5-L10-ML5,2-SS0,7-BS3	<b>K651013</b>	A-5000-7802			TM2-1510-S	
<b>K651014</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L10-ML6,5-SS1-BS3	<b>K651014</b>	A-5000-7807			TM2-2010-S	

## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651015</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,5mm	01-M2-R2,5-L10-ML7-SS1-BS3	<b>K651015</b>	A-5000-7803			TM2-2510-S	
<b>K651016</b>	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L10-ML7,5-SS1,5-BS3	<b>K651016</b>	A-5000-3604			TM2-3010-S	
<b>K651017</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L10-ML10-SS1,5-BS3	<b>K651017</b>	A-5000-4154			TM2-4010-S	
<b>K651018</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L10-ML10-SS2,5-BS3	<b>K651018</b>	A-5000-4155			TM2-5010-S	
<b>K651019</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L20-ML15,3-SS1,4-BS3	<b>K651019</b>	A-5000-3603			TM2-2020-S	
<b>K651020</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,5mm	01-M2-R2,5-L20-ML-16,4-SS1,4-BS3	<b>K651020</b>	A-5000-7804			TM2-2520-S	
<b>K651021</b>	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L20-ML17,5-SS1,5-BS3	<b>K651021</b>	A-5000-4160			TM2-3020-S	
<b>K651022</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L20-ML20-SS1,5-BS3	<b>K651022</b>	A-5000-4161			TM2-4020-S	
<b>K651023</b>	M2	Straight Styli	Stylus M2 ruby ball Ø8,0mm	01-M2-R8-L9-ML9-SS3-BS3	<b>K651023</b>					
<b>K651024</b>	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L10-ML10-SS2,5	<b>K651024</b>	A-5000-4156			TM2-6010-S	
<b>K651025</b>	M2	Straight Styli	Stylus M2 ruby ball Ø8,0mm	01-M2-R8-L11-ML11-SS2,5	<b>K651025</b>	A-5000-4158			TM2-8015-S	
<b>K651026</b>	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm		<b>K651026</b>					
<b>K651197</b>	M2	Straight Styli	Stylus M2 ruby ball Ø0,5 mm	01-M2-R0,5-L20-ML7-SCFC0,3-BS3	<b>K651197</b>	A-5003-1345			TM2-0520-07	
<b>K651198</b>	M2	Straight Styli	Stylus M5 ruby ball Ø8,0 mm	01-M2-R8-L300-ML275-SCFC6-BS11	<b>K651198</b>	A-5003-5272			ATG-80304-G	
<b>K651231</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L10-ML10-SCER2-BS3	<b>K651231</b>					
<b>K651232</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L10-ML10-SCER2-BS3	<b>K651232</b>					
<b>K651233</b>	M2	Straight Styli	Stylus M2 ruby ball Ø0,3mm	01-M2-R0,3-L10-ML4-SWC07/0,2-BS3	<b>K651233</b>	A-5000-7800		626112-0031-013	TM2-0310-R	
<b>K651234</b>	M2	Straight Styli	Stylus M2 ruby ball Ø0,5mm	01-M2-R0,5-L10-ML4-SWC1/0,3-BS3	<b>K651234</b>					
<b>K651235</b>	M2	Straight Styli	Stylus M2 ruby ball Ø0,5mm	01-M2-R0,5-L20-ML12-SWC1/0,3-BS3	<b>K651235</b>					
<b>K651236</b>	M2	Straight Styli	Stylus M2 ruby ball Ø0,7mm	01-M2-R0,7-L10-ML4-SWC0,5-BS3	<b>K651236</b>	A-5000-7801			TM2-0710	
<b>K651237</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,0 mm	01-M2-R1-L10-ML6-SWC0,8-BS3	<b>K651237</b>					
<b>K651238</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,5mm	01-M2-R1,5-L10-ML4-SWC1-BS3	<b>K651238</b>					
<b>K651239</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L10-ML5-SWC1-BS3	<b>K651239</b>	A-5555-0282		602030-8001-000		
<b>K651240</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L10-ML6-SWC1-BS3	<b>K651240</b>					
<b>K651241</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,5mm	01-M2-R2,5-L10-ML5-SWC1,5-BS3	<b>K651241</b>					
<b>K651242</b>	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L10-ML7-SWC1,5-BS3	<b>K651242</b>					
<b>K651243</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L10-ML10-SWC2-BS3	<b>K651243</b>					
<b>K651244</b>	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L10-ML10-SWC2-BS3	<b>K651244</b>					
<b>K651246</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,0mm	01-M2-R1-L15-ML11-SWC0,8-BS3	<b>K651246</b>					
<b>K651247</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L15-ML11-SWC1-BS3	<b>K651247</b>					
<b>K651248</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,0mm	01-M2-R1-L20-ML7-SWC0,7-BS3	<b>K651248</b>	A-5000-7808			TM2-1020-07	
<b>K651249</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,0mm	01-M2-R1-L20-ML12,5-SWC0,8-BS3	<b>K651249</b>	A-5003-0033		626112-0101-020	TM2-1020-DS.8	
<b>K651250</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,5mm	01-M2-R1,5-L20-ML12,5-SWC1-BS3	<b>K651250</b>	A-5003-0034		626112-0152-020	TM2-1520.75	
<b>K651251</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2 mm	01-M2-R2-L20-ML15-SWC1-BS3	<b>K651251</b>	A-5003-3822				
<b>K651252</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,5mm	01-M2-R2,5-L20-ML15-SWC1,5-BS3	<b>K651252</b>					
<b>K651253</b>	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L20-ML17-SWC1,5-BS3	<b>K651253</b>	A-5003-0938			TM2-3021.5	
<b>K651254</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L20-ML20-SWC2,5-BS3	<b>K651254</b>	A-5003-0046		602030-8034-000	TM2-5022.5	
<b>K651255</b>	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L25-ML25-SWC2-BS3	<b>K651255</b>					
<b>K651256</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,0mm	01-M2-R1-L27,5-ML20,5-SWC0,7-BS3	<b>K651256</b>	A-5000-8663			TM2-1027-DS.7	
<b>K651257</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,5mm	01-M2-R1,5-L30-ML22,5-SWC1-BS3	<b>K651257</b>	A-5003-0035			TM2-1530-DS1	



## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651258	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L30-ML22,5-SWC1,5-BS3	K651258	A-5003-0036			TM2-2031	
K651259	M2	Straight Styli	Stylus M2 ruby ball Ø2,5mm	01-M2-R2,5-L30-ML22,5-SWC2-BS3	K651259	A-5003-0038			TM2-2531-DS2	
K651260	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L30-ML27,5-SWC2-BS3	K651260	A-5003-0040			TM2-3031.5	
K651261	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L30-ML30-SWC2-BS3	K651261	A-5003-0043			TM2-4032	
K651262	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L30-ML30-SWC2,5-BS3	K651262	A-5003-0047			TM2-5032.5	
K651263	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L40-ML32,5-SWC1,5-BS3	K651263	A-5003-0037			TM2-2041	
K651264	M2	Straight Styli	Stylus M2 ruby ball Ø2,5mm	01-M2-R2,5-L40-ML32,5-SWC2-BS3	K651264	A-5003-0039			TM2-2541-DS2	
K651265	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L40-ML37,5-SWC2-BS3	K651265	A-5003-0041			TM2-3041.5	
K651266	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L40-ML40-SWC2-BS3	K651266	A-5003-0044			TM2-4042	
K651267	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L40-ML40-SWC2,5-BS3	K651267	A-5003-0048			TM2-5042.5	
K651268	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L50-ML47,5-SWC2-v	K651268	A-5003-0042			TM2-3051.5	
K651269	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L50-ML50-SWC2-BS3	K651269	A-5003-0045			TM2-4052	
K651270	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L50-ML50-SWC2,5-BS3	K651270	A-5003-0049			TM2-5052.5	
K651276	M2	Straight Styli	Stylus M2 ruby ball Ø0,5mm	01-M2-R0,5-L10-ML4-SWC0,7/0,3-BS3	K651276	A-5000-7805		623062-3132-000	TM2-0510-R	
K651322	M2	Straight Styli	Stylus M2 ruby ball Ø1,0mm	01-M2-R1-L 52-ML37,5-SWC0,7-BS3	K651322					
K651323	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R2-L58-ML52-SWC1,5-BS3	K651323					
K651324	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L68-ML64-SS1,5-BS3	K651324					
K651325	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L83,5-ML68,5-SCER2-BS3	K651325					
K651326	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L68-ML68-SS2-BS3	K651326					
K651327	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-98-ML98-SCER3-BS3	K651327					
K651328	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-97,5-ML97,5-SCER3-BS3	K651328					
K651347	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm		K651347	A-5003-2285				
K651348	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L50-ML50-SCFC3-BS3	K651348	A-5003-2286				
K651349	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L50-ML50-SCFC3-BS3	K651349	A-5003-2287				
K651361	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L30-ML22,5-SCFC2-BS3	K651361	A-5003-4241				
K651414	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L30-ML30-SWC3-BS3	K651414	A-5003-4241				
K651415	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L30-ML30-SCFC3-BS3	K651415	A-5003-4781				
K651416	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L30-ML30-SCFC3-BS3	K651416	A-5003-4782				
K651417	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L75-ML75-SCFC3-BS3	K651417	A-5003-4785				
K651418	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L75-ML75-SCFC3-BS3	K651418	A-5003-4786				
K651419	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L100-ML100-SCFC3-BS3	K651419					
K651420	M2	Straight Styli	Stylus M2 ruby ball Ø8,0mm	01-M2-R8-L75-ML75-SCFC3-BS3	K651420					
K651421	M2	Straight Styli	Stylus M2 ruby ball Ø8,0mm	01-M2-R8-L100-ML100-SCFC3-BS3	K651421					
K651426	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø1,0mm		K651426					
K651427	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø1,0mm	01-M2-Z1-L20-ML7-SWC0,7-BS3	K651427	A-5004-0435				
K651428	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø2,0mm	01-M2-Z2-L10-ML6-SWC1-BS3	K651428					
K651429	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø2,0mm	01-M2-Z2-L20-ML15-SWC1-BS3	K651429					
K651430	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø3,0mm	01-M2-Z3-L20-ML17-SWC1,5-BS3	K651430					
K651431	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø3,0mm	01-M2-Z3-L30-ML27,5-SWC2-BS3	K651431					
K651461	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L30-ML27-SCFC2-BS3	K651461	A-5003-7852		000000-1776-922	TM2-3031.5-G	
K651543	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L50-ML50-SCER2,5-BS3	K651543	A-5003-0470			TM2-6053-C	



## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651544</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L22-ML22-SWC0,7-BS3	<b>K651544</b>	A-5003-1029			TM2-4024	
<b>K651545</b>	M2	Straight Styli	Stylus M2 ruby ball Ø1,0mm	01-M2-R1-L10-ML4-SWC0,7-BS3	<b>K651545</b>	A-5003-1325		602030-8006-000	TM2-1010.5-DS.7	
<b>K651546</b>	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L50-ML47,5-SCFC2-BS3	<b>K651546</b>	A-5003-9506				
<b>K651547</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,5mm	01-M2-R2,5-L20-ML15,5-SWC-BS3	<b>K651547</b>	A-5003-1896			TM2-2521.25-DS1	
<b>K651548</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R4-L100-ML100-SCFC3-BS3	<b>K651548</b>	A-5003-2289		000000-1776-918	TM2-40102-G	
<b>K651549</b>	M2	Straight Styli	Stylus M2 ruby ball Ø2,0mm	01-M2-R5-L100-ML100-SCFC3-BS3	<b>K651549</b>	A-5003-2290		000000-1776-919	TM2-50102.5-G	
<b>K651551</b>	M2	Straight Styli	Stylus M2 ruby ball Ø3,0mm	01-M2-R3-L30-ML27-SCER2-BS3	<b>K651551</b>	A-5003-4177			TM2-3031.5-C	
<b>K651553</b>	M2	Straight Styli	Stylus M2 ruby ball Ø5,0mm	01-M2-R5-L30-ML30-SCER2,5-BS3	<b>K651553</b>	A-5003-4779			TM2-5032.5-C	
<b>K651554</b>	M2	Straight Styli	Stylus M2 ruby ball Ø6,0mm	01-M2-R6-L30-ML30-SCER2,5-BS3	<b>K651554</b>	A-5003-4780			TM2-6033-C	
<b>K651557</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0 mm	01-M2-R4-L75-ML75-SCFC2-BS3	<b>K651557</b>	A-5003-4784		000000-1776-931	TM2-4077-G-DS2	
<b>K651576</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø1,5mm	01-M2-SiN1,5-L20-ML12,35-SWC1-BS3	<b>K651576</b>	A-5004-1925			TM2-1520.75-S-SN	
<b>K651740</b>	M2	Straight Styli	Stylus M2 ruby ball 0,7mm	01-M2-R0,7-L20-ML12-SWC0,5-BS3	<b>K651740</b>	A-5003-0577		000000-1776-816	TM2-0720.35	
<b>K651744</b>	M2	Straight Styli	Stylus M2 ruby ball Ø4,0mm	01-M2-R46-L12,15-ML12,15-SWC1,5-BS3	<b>K651744</b>	A-5004-2182				
<b>K651806</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø4,0mm	01-M2-SiN4-L30-ML22,5-SCFC2-BS3	<b>K651806</b>	A-5004-1955			TM2-4032-G-SN	
<b>K651817</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø1 mm	01-M2-SiN1-L10-ML4,5-SS0,7-BS3	<b>K651817</b>	A-5004-0210				
<b>K651818</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø1,5 mm	01-M2-SiN1,5-L10-ML4,5-SS0,7-BS3	<b>K651818</b>	A-5004-1918				
<b>K651819</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø2 mm	01-M2-SiN2-L10-ML6-SS1-BS3	<b>K651819</b>	A-5003-6120				
<b>K651820</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø2,5 mm	01-M2-SiN2,5-L10-ML6,5-SS1-BS3	<b>K651820</b>	A-5004-1920				
<b>K651821</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø3 mm	01-M2-SiN3-L10-ML7-SS1,5-BS3	<b>K651821</b>	A-5003-2138				
<b>K651822</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø4 mm	01-M2-SiN4-L10-ML10-SS1,5-BS3	<b>K651822</b>	A-5003-9524				
<b>K651823</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø5 mm	01-M2-SiN5-L10-ML10-SS2,5-BS3	<b>K651823</b>	A-5004-1921				
<b>K651824</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø6 mm	01-M2-SiN6-L10-ML10-SS2,5-BS3	<b>K651824</b>	A-5004-0237				
<b>K651825</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø8 mm	01-M2-SiN8-L11-ML11-SS2,5-BS3	<b>K651825</b>	A-5004-1922				
<b>K651826</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø2 mm	01-M2-SiN2-L20-ML14-SS1,4-BS3	<b>K651826</b>	A-5003-1730				
<b>K651827</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø2,5 mm	01-M2-SiN2,5-L20-ML16,4-SS1,4-BS3	<b>K651827</b>	A-5004-1923				
<b>K651828</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø3 mm	01-M2-SiN3-L20-ML17-SS1,5-BS3	<b>K651828</b>	A-5003-6691				
<b>K651829</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø4 mm	01-M2-SiN4-L20-ML20-SS1,5-BS3	<b>K651829</b>	A-5004-0236				
<b>K651830</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø1 mm	01-M2-Zr1-L10-ML4,5-SS0,7-BS3	<b>K651830</b>	A-5003-7757				
<b>K651831</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø1,5 mm	01-M2-Zr1,5-L10-ML4,5-SS0,7-BS3	<b>K651831</b>	A-5004-0165				
<b>K651832</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø2 mm	01-M2-Zr2-L10-ML6-SS1-BS3	<b>K651832</b>	A-5003-7723				
<b>K651833</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø2,5 mm	01-M2-Zr2,5-L10-ML6,5-SS1-BS3	<b>K651833</b>	A-5004-2913				
<b>K651834</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø3 mm	01-M2-Zr3-L10-ML7-SS1,5-BS3	<b>K651834</b>	A-5004-2914				
<b>K651835</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø4 mm	01-M2-Zr4-L10-ML10-SS1,5-BS3	<b>K651835</b>	A-5003-7261				
<b>K651836</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø5 mm	01-M2-Zr5-L10-ML10-SS2,5-BS3	<b>K651836</b>	A-5003-2186				
<b>K651837</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø6 mm	01-M2-Zr6-L10-ML10-SS2,5-BS3	<b>K651837</b>	A-5004-2203				
<b>K651838</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø8 mm	01-M2-Zr8-L11-ML11-SS2,5-BS3	<b>K651838</b>	A-5004-2915				
<b>K651839</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø2 mm	01-M2-Zr2-L20-ML14-SS1,4-BS3	<b>K651839</b>	A-5004-2916				
<b>K651840</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø2,5 mm	01-M2-Zr2,5-L20-ML16,4-SS1,4-BS3	<b>K651840</b>	A-5004-2917				
<b>K651841</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø3 mm	01-M2-Zr3-L20-ML17-SS1,5-BS3	<b>K651841</b>	A-5004-1057				
<b>K651842</b>	M2	Straight Styli	Stylus M2 zirconium oxide ball Ø4 mm	01-M2-Zr4-L20-ML20-SS1,5-BS3	<b>K651842</b>	A-5004-2918				
<b>K651843</b>	M2	Straight Styli	Stylus M2 silicon nitride ball Ø0,3 mm	01-M2-SiN0,3-L10-ML2-SWC0,2-BS3	<b>K651843</b>	A-5004-2016				

## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651844	M2	Straight Styli	Stylus M2 silicon nitride ball ø0,5 mm	01-M2-SiN0,5-L10-ML3-SWC0,4-BS3	K651844	A-5003-2020				
K651845	M2	Straight Styli	Stylus M2 silicon nitride ball ø1 mm	01-M2-SiN1-L10-ML4-SWC0,7-BS3	K651845	A-5004-2018				
K651846	M2	Straight Styli	Stylus M2 zirconium oxide ball ø0,5 mm	01-M2-Zr0,5-L10-ML3-SWC0,4-BS3	K651846	A-5003-7672				
K651847	M2	Straight Styli	Stylus M2 zirconium oxide ball ø0,7 mm	01-M2-Zr0,7-L10-ML4-SWC0,5-BS3	K651847	A-5004-2632				
K651848	M2	Straight Styli	Stylus M2 zirconium oxide ball ø1 mm	01-M2-Zr1-L10-ML4-SWC0,7-BS3	K651848	A-5004-2919				
K651849	M2	Straight Styli	Stylus M2 ruby ball ø0,3 mm	01-M2-R0,3-L20-ML2-SWC0,2-BS3	K651849	A-5004-7398				
K651850	M2	Straight Styli	Stylus M2 silicon nitride ball ø0,3 mm	01-M2-SiN0,3-L20-ML2-SWC0,2-BS3	K651850	A-5004-7399				
K651851	M2	Straight Styli	Stylus M2 silicon nitride ball ø0,5 mm	01-M2-SiN0,5-L20-ML7-SWC0,3-BS3	K651851	A-5004-2019				
K651852	M2	Straight Styli	Stylus M2 silicon nitride ball ø1 mm	01-M2-SiN1-L20-ML7-SWC0,7-BS3	K651852	A-5004-1508				
K651853	M2	Straight Styli	Stylus M2 silicon nitride ball ø1 mm	01-M2-SiN1-L20-ML12,5-SWC0,8-BS3	K651853	A-5004-2021				
K651854	M2	Straight Styli	Stylus M2 silicon nitride ball ø3 mm	01-M2-SiN3-L30-ML27-SCER2-BS3	K651854	A-5004-1946				
K651855	M2	Straight Styli	Stylus M2 silicon nitride ball ø2 mm	01-M2-SiN2-L20-ML14-SWC1-BS3	K651855	A-5004-1017				
K651856	M2	Straight Styli	Stylus M2 silicon nitride ball ø2,5 mm	01-M2-SiN2,5-L20-ML15,5-SWC1-BS3	K651856	A-5004-1928				
K651857	M2	Straight Styli	Stylus M2 silicon nitride ball ø3 mm	01-M2-SiN3-L20-ML17-SWC1,5-BS3	K651857	A-5004-1021				
K651858	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L22-ML22-SWC2-BS3	K651858	A-5004-1929				
K651859	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L20-ML20-SWC2,5-BS3	K651859	A-5004-1930				
K651860	M2	Straight Styli	Stylus M2 silicon nitride ball ø1 mm	01-M2-SiN1-L27,5-ML20,5-SWC0,7-BS3	K651860	A-5004-2022				
K651861	M2	Straight Styli	Stylus M2 silicon nitride ball ø1,5 mm	01-M2-SiN1,5-L30-ML22,5-SWC1-BS3	K651861	A-5004-1931				
K651862	M2	Straight Styli	Stylus M2 silicon nitride ball ø2 mm	01-M2-SiN2-L30-ML22,5-SWC1,5-BS3	K651862	A-5003-7573				
K651863	M2	Straight Styli	Stylus M2 silicon nitride ball ø2,5 mm	01-M2-SiN2,5-L30-ML22,5-SWC2-BS3	K651863	A-5004-1932				
K651864	M2	Straight Styli	Stylus M2 silicon nitride ball ø3 mm	01-M2-SiN3-L30-ML27-SWC2-BS3	K651864	A-5004-1933				
K651865	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L30-ML30-SWC2-BS3	K651865	A-5004-1944				
K651866	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L30-ML30-SWC2,5-BS3	K651866	A-5004-1945				
K651867	M2	Straight Styli	Stylus M2 zirconium oxide ball ø0,5 mm	01-M2-Zr0,5-L20-ML7-SWC0,3-BS3	K651867	A-5004-2920				
K651868	M2	Straight Styli	Stylus M2 zirconium oxide ball ø0,7 mm	01-M2-Zr0,7-L20-ML12-SWC0,5-BS3	K651868	A-5004-1714				
K651869	M2	Straight Styli	Stylus M2 zirconium oxide ball ø3 mm	01-M2-Zr3-L30-ML27-SCER2-BS3	K651869	A-5004-2931				
K651870	M2	Straight Styli	Stylus M2 zirconium oxide ball ø1 mm	01-M2-Zr1-L20-ML12,5-SWC0,8-BS3	K651870	A-5004-2921				
K651871	M2	Straight Styli	Stylus M2 zirconium oxide ball ø1,5 mm	01-M2-Zr1,5-L20-ML12,5-SWC1-BS3	K651871	A-5004-2922				
K651872	M2	Straight Styli	Stylus M2 zirconium oxide ball ø2 mm	01-M2-Zr2-L20-ML14-SWC1-BS3	K651872	A-5004-2923				
K651873	M2	Straight Styli	Stylus M2 zirconium oxide ball ø2,5 mm	01-M2-Zr2,5-L20-ML15,5-SWC1-BS3	K651873	A-5004-2924				
K651874	M2	Straight Styli	Stylus M2 zirconium oxide ball ø3 mm	01-M2-Zr3-L20-ML17-SWC1,5-BS3	K651874	A-5004-0437				
K651875	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L22-ML22-SWC2-BS3	K651875	A-5004-2925				
K651876	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L20-ML20-SWC2,5-BS3	K651876	A-5004-2926				
K651877	M2	Straight Styli	Stylus M2 zirconium oxide ball ø1 mm	01-M2-Zr1-L27,5-ML20,5-SWC0,7-BS3	K651877	A-5004-2927				
K651878	M2	Straight Styli	Stylus M2 zirconium oxide ball ø1,5 mm	01-M2-Zr1,5-L30-ML22,5-SWC1-BS3	K651878	A-5004-1711				
K651879	M2	Straight Styli	Stylus M2 zirconium oxide ball ø2 mm	01-M2-Zr2-L30-ML22,5-SWC1,5-BS3	K651879	A-5004-1058				
K651880	M2	Straight Styli	Stylus M2 zirconium oxide ball ø2,5 mm	01-M2-Zr2,5-L30-ML22,5-SWC2-BS3	K651880	A-5004-2928				
K651881	M2	Straight Styli	Stylus M2 zirconium oxide ball ø3 mm	01-M2-Zr3-L30-ML27-SWC2-BS3	K651881	A-5004-0264				
K651882	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L30-ML30-SWC2-BS3	K651882	A-5004-2929				
K651883	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L30-ML30-SWC2,5-BS3	K651883	A-5004-2930				
K651886	M2	Straight Styli	Stylus M2 silicon nitride ball ø6 mm	01-M2-SiN6-L30-ML30-SCER2,5-BS3	K651886	A-5004-1954				

## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651887	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L30-ML30-SCFC3-BS3	K651887	A-5004-1956				
K651888	M2	Straight Styli	Stylus M2 silicon nitride ball ø6 mm	01-M2-SiN6-L30-ML30-SCFC3-BS3	K651888	A-5004-1957				
K651889	M2	Straight Styli	Stylus M2 silicon nitride ball ø2,5 mm	01-M2-SiN2,5-L40-ML32,5-SWC2-BS3	K651889	A-5004-1959				
K651890	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L30-ML30-SCER2-BS3	K651890	A-5004-2932				
K651891	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L30-ML30-SCER2,5-BS3	K651891	A-5004-2933				
K651892	M2	Straight Styli	Stylus M2 zirconium oxide ball ø6 mm	01-M2-Zr6-L30-ML30-SCER2,5-BS3	K651892	A-5004-2934				
K651893	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L30-ML30-SCFC2-BS3	K651893	A-5004-2935				
K651894	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L30-ML30-SCFC3-BS3	K651894	A-5004-2936				
K651895	M2	Straight Styli	Stylus M2 zirconium oxide ball ø6 mm	01-M2-Zr6-L30-ML30-SCFC3-BS3	K651895	A-5004-0618				
K651896	M2	Straight Styli	Stylus M2 silicon nitride ball ø3 mm	01-M2-SiN3-L40-ML37-SWC2-BS3	K651896	A-5004-1960				
K651897	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L40-ML40-SWC2-BS3	K651897	A-5004-1961				
K651898	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L40-ML40-SWC2,5-BS3	K651898	A-5004-1962				
K651899	M2	Straight Styli	Stylus M2 silicon nitride ball ø3 mm	01-M2-SiN3-L50-ML47-SWC2-BS3	K651899	A-5004-1963				
K651900	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L50-ML50-SWC2-BS3	K651900	A-5004-1964				
K651901	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L50-ML50-SWC2,5-BS3	K651901	A-5004-1965				
K651902	M2	Straight Styli	Stylus M2 zirconium oxide ball ø2 mm	01-M2-Zr2-L40-ML32,5-SWC1,5-BS3	K651902	A-5004-2937				
K651903	M2	Straight Styli	Stylus M2 zirconium oxide ball ø2,5 mm	01-M2-Zr2,5-L40-ML32,5-SWC2-BS3	K651903	A-5004-2938				
K651904	M2	Straight Styli	Stylus M2 zirconium oxide ball ø3 mm	01-M2-Zr3-L40-ML37-SWC2-BS3	K651904	A-5004-1059				
K651905	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L40-ML40-SWC2-BS3	K651905	A-5004-2939				
K651906	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L40-ML40-SWC2,5-BS3	K651906	A-5004-2940				
K651907	M2	Straight Styli	Stylus M2 zirconium oxide ball ø3 mm	01-M2-Zr3-L50-ML47-SWC2-BS3	K651907	A-5004-2942				
K651908	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L50-ML50-SWC2-BS3	K651908	A-5004-2943				
K651909	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L50-ML50-SWC2,5-BS3	K651909	A-5004-2944				
K651916	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L30-ML30-SCER2-BS3	K651916	A-5004-1952				
K651917	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L30-ML30-SCER2,5-BS3	K651917	A-5004-1953				
K651926	M2	Straight Styli	Stylus M2 silicon nitride ball ø3 mm	01-M2-SiN3-L50-ML47-SCER2-BS3	K651926	A-5004-1967				
K651927	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L50-ML50-SCER2-BS3	K651927	A-5004-1519				
K651928	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L50-ML50-SCER2,5-BS3	K651928	A-5004-1968				
K651929	M2	Straight Styli	Stylus M2 silicon nitride ball ø6 mm	01-M2-SiN6-L50-ML50-SCER2,5-BS3	K651929	A-5004-1969				
K651930	M2	Straight Styli	Stylus M2 zirconium oxide ball ø3 mm	01-M2-Zr3-L50-ML47-SCER2-BS3	K651930	A-5004-2945				
K651931	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L50-ML50-SCER2-BS3	K651931	A-5004-2946				
K651932	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L50-ML50-SCER2,5-BS3	K651932	A-5004-2947				
K651933	M2	Straight Styli	Stylus M2 zirconium oxide ball ø6 mm	01-M2-Zr6-L50-ML50-SCER2,5-BS3	K651933	A-5004-2948				
K651934	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L50-ML50-SCFC3-BS3	K651934	A-5004-1970				
K651935	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L50-ML50-SCFC3-BS3	K651935	A-5004-1971				
K651936	M2	Straight Styli	Stylus M2 silicon nitride ball ø6 mm	01-M2-SiN6-L50-ML50-SCFC3-BS3	K651936	A-5004-1972				
K651937	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L50-ML50-SCFC3-BS3	K651937	A-5004-1331				
K651938	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L50-ML50-SCFC3-BS3	K651938	A-5004-1330				
K651939	M2	Straight Styli	Stylus M2 zirconium oxide ball ø6 mm	01-M2-Zr6-L50-ML50-SCFC3-BS3	K651939	A-5004-1329				
K651940	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L75-ML75-SCFC3-BS3	K651940	A-5004-1973				
K651941	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L75-ML75-SCFC3-BS3	K651941	A-5004-1974				

## Stylus Cross Reference Table M2

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651942	M2	Straight Styli	Stylus M2 silicon nitride ball ø6 mm	01-M2-SiN6-L75-ML75-SCFC3-BS3	K651942	A-5004-1975				
K651943	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L100-ML100-SCFC3-BS3	K651943	A-5004-1976				
K651944	M2	Straight Styli	Stylus M2 silicon nitride ball ø5 mm	01-M2-SiN5-L100-ML100-SCFC3-BS3	K651944	A-5004-1977				
K651945	M2	Straight Styli	Stylus M2 silicon nitride ball ø6 mm	01-M2-SiN6-L100-ML100-SCFC3-BS3	K651945	A-5004-1978				
K651946	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L75-ML75-SCFC3-BS3	K651946	A-5004-2949				
K651947	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L75-ML75-SCFC3-BS3	K651947	A-5004-2950				
K651948	M2	Straight Styli	Stylus M2 zirconium oxide ball ø6 mm	01-M2-Zr6-L75-ML75-SCFC3-BS3	K651948	A-5004-2951				
K651949	M2	Straight Styli	Stylus M2 zirconium oxide ball ø4 mm	01-M2-Zr4-L100-ML100-SCFC3-BS3	K651949	A-5004-2952				
K651950	M2	Straight Styli	Stylus M2 zirconium oxide ball ø5 mm	01-M2-Zr5-L100-ML100-SCFC3-BS3	K651950	A-5004-2953				
K651951	M2	Straight Styli	Stylus M2 zirconium oxide ball ø6 mm	01-M2-Zr6-L100-ML100-SCFC3-BS3	K651951	A-5004-2954				
K651952	M2	Straight Styli	Stylus M2 ruby ball ø2 mm	01-M2-R2-L30-ML22,5-SCER1,5-BS3	K651952	A-5004-3404				
K651953	M2	Straight Styli	Stylus M2 ruby ball ø2 mm	01-M2-R2-L40-ML30,5-SCER1,5-BS3	K651953	A-5003-6985				
K651954	M2	Straight Styli	Stylus M2 silicon nitride ball ø2 mm	01-M2-SiN2-L30-ML22,5-SCER1,5-BS3	K651954	A-5004-7273				
K651955	M2	Straight Styli	Stylus M2 silicon nitride ball ø2 mm	01-M2-SiN2-L40-ML30,5-SCER1,5-BS3	K651955	A-5004-7123				
K651943	M2	Straight Styli	Stylus M2 silicon nitride ball ø4 mm	01-M2-SiN4-L100-ML100-SCFC2-BS3	K651943					
K651997	M2	Straight Styli	Stylus M2 silicon nitride ball ø3 mm	01-M2-SiN3-L50-ML47,5-SCFC2-BS3	K651997					
K650449	M2	Styli for 5 - way Styli	Stylus for 5-way stylus ruby ball Ø2,0mm	01-M2-R2-L18,5-ML12,5-SWC1,5-BS3	K650449					
K651055	M2	Styli for 5 - way Styli	Stylus for 5-way stylus ruby ball Ø2,0mm	01-M2-R2-L16,5-ML11-SWC1,4-BS3	K651055	A-5000-3609				STR2C-2018
K651095	M2	Tip Styli	Tip stylus M2 hardened steel 30°	01-M2-S30°-L10-ML6-SS1,5-BS3	K651095			602030-8342-000		TM2-S30
K651096	M2	Tip Styli	Tip stylus M2 hardened steel 60°	01-M2-S60°-L10-ML6-SS1,5-BS3	K651096			602030-8343-000		TM2-S60
K651097	M2	Tip Styli	Tip stylus M2 carbide 30°	01-M2-S30°-L15-6-SS3	K651097	A-5004-7588	M-5000-4150			
K651098	M2	Tip Styli	Tip stylus M2 carbide 30°	01-M2-WC30°-L10-ML3-SWC1,5-BS3	K651098	A-5000-7813				TM2-S30-C

## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651170	M3	Adapters	Adapter M3-M2 stainless steel	07-M3-M2-L5-BS4	K651170	A-5004-7592	M-5000-4163	602030-8341-000	RM3-M2	M00-1126-011-000
K651171	M3	Adapters	Adapter M3-M4 stainless steel	07-M3-M4-L10-BS5	K651171					
K651409	M3	Adapters	Adapter M3-M2 carbon fibre	07-M3-M2-L30-SCFC3-BS4	K651409					
K651410	M3	Adapters	Adapter M3-M2 carbon fibre	07-M3-M2-L55-SCFC3-BS4	K651410					
K651411	M3	Adapters	Adapter M3-M2 carbon fibre	07-M3-M2-L80-SCFC3-BS4	K651411					
K651153	M3	Cylinder Styli	Cylinder stylus M3 stainless steel 1,5mm	02-M3-SC1,5-L11-ML5/1,5-BS4	K651153					
K651154	M3	Cylinder Styli	Cylinder stylus M3 stainless steel 3,0mm	02-M3-SC3-L13-ML8,5/4-BS4	K651154					
K651155	M3	Cylinder Styli	Cylinder stylus M3 ruby 2,0mm	02-M3-SC2-L19-ML13/6,5-BS4	K651155					
K650247	M3	Diamond coated styli	Stylus M3 diamond coated ball 2,05mm	01-M3-DC2,05-L30-ML22,5-SWC1,5-BS4	K650247					
K650246	M3	Diamond coated styli	Stylus M3 diamond coated ball 2,05mm	01-M3-DC2,05-L20-ML12,5-SWC1,5-BS4	K650246					
K650240	M3	Diamond coated styli	Stylus M3 diamond coated ball 1,05mm	01-M3-DC1,05-L21,5-ML8,5/4,5-SWC1/0,8-BS4	K650240					
K650244	M3	Diamond coated styli	Stylus M3 diamond coated ball 1,05mm	01-M3-DC1,05-L10-ML5-SWC0,8-BS4	K650244					
K650251	M3	Diamond coated styli	Stylus M3 diamond coated ball 3,05mm	01-M3-DC3,05-L20-ML15,5SWC1,5-BS4	K650251					M00-694-198-000
K650252	M3	Diamond coated styli	Stylus M3 diamond coated ball 3,05mm	01-M3-DC3,05-L50-ML42,5-SWC2-BS4	K650252					M00-694-199-000
K650256	M3	Diamond coated styli	Stylus M3 diamond coated ball 5,05mm	01-M3-DC5,05-L40-ML40-SWC2-BS4	K650256					

## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K650257</b>	M3	Diamond coated styli	Stylus M3 diamond coated ball 5,05mm	01-M3-DC5,05-L50-ML50-SWC2-BS4	<b>K650257</b>					
<b>K651775</b>	M3	Diamond coated styli	Stylus M2 diamond coated ball 3,05mm	01-M2-DC5,05-L31-ML31-SWC2-BS3	<b>K651775</b>					
<b>K650259</b>	M3	Diamond coated styli	Stylus M3 diamond coated ball 1,05mm	01-M3-DC1,05-L21-ML4-SS0,7-BS4	<b>K650259</b>					
<b>K650260</b>	M3	Diamond coated styli	Stylus M3 diamond coated ball 3,05mm	01-M3-DC3,05-L21-ML14-SS1,5-BS4	<b>K650260</b>					
<b>K651925</b>	M3	Diamond coated styli	Stylus M3 diamond coated ball 1,05mm	01-M3-DC1,05-L22-ML12-SWC0,8-BS4	<b>K651925</b>					
<b>K651172</b>	M3	Disc Styli	Disk stylus hardened steel M3 Ø12,7mm	03-M3-DS12,7/2,3-L31-SWC3,5-BS4	<b>K651172</b>	A-5000-3615				
<b>K651612</b>	M3	Disc Styli	Disc stylus, ceramic M3, Ø30,0mm	03-M5-DCER30/1,5-L5,5-BTi4	<b>K651612</b>	A-5003-7098				
<b>K651156</b>	M3	Extensions	Extension M3, stainless steel L 10,0mm	06-M3-L10-SS4	<b>K651156</b>	A-5004-7609	M-5000-7633	602030-8301-000	VM3-10	
<b>K651157</b>	M3	Extensions	Extension M3, stainless steel L 20,0mm	06-M3-L20-SS4	<b>K651157</b>	A-5004-7583	M-5000-3592	602030-8302-000	VM3-20	
<b>K651158</b>	M3	Extensions	Extension M3, stainless steel L 30,0mm	06-M3-L30-SS4	<b>K651158</b>	A-5555-0286		602030-8303-000	VM3-30	
<b>K651159</b>	M3	Extensions	Extension M3, stainless steel L 35,0mm	06-M3-L35-SS4	<b>K651159</b>	A-5004-7584	M-5000-3593		VM3-35	
<b>K651160</b>	M3	Extensions	Extension M3, stainless steel L 40,0mm	06-M3-L40-SS4	<b>K651160</b>	A-5555-0287		602030-8304-000	VM3-40	
<b>K651161</b>	M3	Extensions	Extension M3, stainless steel L 50,0mm	06-M3-L50-SS4	<b>K651161</b>	A-5555-0288		602030-8305-000	VM3-50	
<b>K651162</b>	M3	Extensions	Extension M3, ceramic L 50,0mm	06-M3-L50-SCER4-BS4	<b>K651162</b>	A-5003-0075			VM3-50-C	
<b>K651422</b>	M3	Extensions	Extension M3, carbon fiber L 50,0mm	06-M3-L50-SCFC4-BS4	<b>K651422</b>					
<b>K651423</b>	M3	Extensions	Extension M3, carbon fiber L 75,0mm	06-M3-L75-SCFC4-BS4	<b>K651423</b>	A-5003-4864		000000-1776-896	VM3-75-G	
<b>K651424</b>	M3	Extensions	Extension M3, carbon fiber L 100,0mm	06-M3-L100-SCFC4-BS4	<b>K651424</b>	A-5003-4865		000000-1776-895	VM3-100-G	
<b>K651425</b>	M3	Extensions	Extension M3, carbon fiber L 30,0mm	06-M3-L30-SCFC4-BS4	<b>K651425</b>					
<b>K656061</b>	M3	Extensions	Extension M3, carbon fibre L20	06-M3-R-L20-SCFC5-BTi5-XXT	<b>K656061</b>	A-5555-3892		626103-5020-000	VM3-20-TX	
<b>K656062</b>	M3	Extensions	Extension M3, carbon fibre L25	06-M3-R-L25-SCFC5-BTi5-XXT	<b>K656062</b>	A-5555-1947		626103-5025-000	VM3-25-TX	
<b>K656063</b>	M3	Extensions	Extension M3, carbon fibre L30	06-M3-R-L30-SCFC5-BTi5-XXT	<b>K656063</b>	A-5004-3430		626103-5030-000	VM3-30-TX	
<b>K656064</b>	M3	Extensions	Extension M3, carbon fibre L40	06-M3-R-L40-SCFC5-BTi5-XXT	<b>K656064</b>	A-5555-3893		626103-5040-000	VM3-40-TX	
<b>K656065</b>	M3	Extensions	Extension M3, carbon fibre L50	06-M3-R-L50-SCFC5-BTi5-XXT	<b>K656065</b>	A-5004-0002		626103-5050-000	VM3-50-TX	
<b>K656066</b>	M3	Extensions	Extension M3, carbon fibre L60	06-M3-R-L60-SCFC5-BTi5-XXT	<b>K656066</b>	A-5555-3894		626103-5060-000	VM3-60-TX	
<b>K656067</b>	M3	Extensions	Extension M3, carbon fibre L65	06-M3-R-L65-SCFC5-BTi5-XXT	<b>K656067</b>			626103-5065-000	VM3-65-TX	
<b>K656068</b>	M3	Extensions	Extension M3, carbon fibre L75	06-M3-R-L75-SCFC5-BTi5-XXT	<b>K656068</b>	A-5555-1948		626103-5075-000	VM3-75-TX	
<b>K656069</b>	M3	Extensions	Extension M3, carbon fibre L80	06-M3-R-L80-SCFC5-BTi5-XXT	<b>K656069</b>	A-5004-2001		626103-5080-000	VM3-80-TX	
<b>K656070</b>	M3	Extensions	Extension M3, carbon fibre L100	06-M3-R-L100-SCFC5-BTi5-XXT	<b>K656070</b>	A-5004-1859		626103-5100-000	VM3-100-TX	
<b>K656071</b>	M3	Extensions	Extension M3, carbon fibre L130	06-M3-R-L130-SCFC5-BTi5-XXT	<b>K656071</b>			626103-5130-000	VM3-130-TX	
<b>K656072</b>	M3	Extensions	Extension M3, carbon fibre L150	06-M3-R-L150-SCFC5-BTi5-XXT	<b>K656072</b>	A-5555-1276		626103-5150-000	VM3-150-TX	
<b>K651167</b>	M3	Holders	5-way stylus holder M3 fixed	10-5-M3-L11-ML9-BS12	<b>K651167</b>					
<b>K651168</b>	M3	Holders	5-way stylus holder M3 rotatable	10-5-M3-L11,5-ML9-BS12	<b>K651168</b>			602030-8382-000		
<b>K651169</b>	M3	Holders	5-way stylus holder M3 rotatable	10-5-M3-L13-BS10	<b>K651169</b>	A-5000-7610			KM3-13	
<b>K651180</b>	M3	Joints	Knuckle joint M3, stainless steel		<b>K651180</b>	A-5000-7616		602030-9102-000	GM3-20	
<b>K651447</b>	M3	Joints	Swivel joint M3	09-M3-L17-BS	<b>K651447</b>	A-5003-4686				M00-1125-002-000
<b>K650320</b>	M3	Solid diamond styli	Stylus M3 solid diamond ball Ø2,0mm	01-M3-SD2-L20-ML12,5-SWC1,5-BS11	<b>K650320</b>					
<b>K650294</b>	M3	Solid diamond styli	Stylus M3 solid diamond ball Ø3,0mm	01-M3-SD3-L20-ML15,6-SWC1,5-BS11	<b>K650294</b>					
<b>K650317</b>	M3	Solid diamond styli	Stylus M3 solid diamond ball Ø0,3mm	01-M3-SD0,3-L21,85-ML8,85-SWC0,2-BS4	<b>K650317</b>					
<b>K650318</b>	M3	Solid diamond styli	Stylus M3 solid diamond ball Ø0,6mm	01-M3-SD0,6-L21,7-ML8,7-SWC0,3-BS4	<b>K650318</b>					
<b>K650319</b>	M3	Solid diamond styli	Stylus M3 solid diamond ball Ø1,0mm	01-M3-SD1-L21,5-ML8,5-SWC0,8-BS11	<b>K650319</b>					
<b>K651163</b>	M3	Star-Styli	4-way stylus M3 ruby ball Ø2,0mm	04-M3-R2-L30-ML8/18,5-SWC1,5-BS	<b>K651163</b>	A-5003-0076			STR3-2030	



## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651164	M3	Star-Styli	4-way stylus M3 ruby ball Ø2,0mm	04-M3-R2-L50-ML12/28,5-SWC1,5-BS	K651164	A-5003-0077			STR3-2050	
K651578	M3	Star-Styli	Star stylus M3 silicon nitride ball Ø2,0	04-M3-SiN12-L30-ML8/18,5-SS1,5/2-BS4	K651578					
K650272	M3	Straight Styli	Stylus M3 silicon nitride ball Ø8 mm	01-M3-SiN8-L75-ML75-SCFC4-BS4	K650272	A-5004-1991				
K650273	M3	Straight Styli	Stylus M3 silicon nitride ball Ø8 mm	01-M3-SiN8-L100-ML100-SCFC4-BS4	K650273	A-5004-5466				
K650274	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø8 mm	01-M3-Zr8-L75-ML75-SCFC4-BS4	K650274	A-5003-6771				
K650275	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø6 mm	01-M3-Zr6-L100-ML100-SCFC4-BS4	K650275	A-5003-5741				
K650276	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø8 mm	01-M3-Zr8-L100-ML100-SCFC4-BS4	K650276	A-5003-6778				
K650277	M3	Straight Styli	Stylus M3 ruby ball Ø12 mm	01-M3-R12-L100-ML100-SCFC4-BS4	K650277	A-5003-7445				
K650278	M3	Straight Styli	Stylus M3 ruby ball Ø12 mm	01-M3-R12-L150-ML150-SCFC4-BS4	K650278	A-5003-7446				
K650279	M3	Straight Styli	Stylus M3 ruby ball Ø12 mm	01-M3-R12-L200-ML200-SCFC4-BS4	K650279	A-5003-7447				
K650280	M3	Straight Styli	Stylus M3 silicon nitride ball Ø10 mm	01-M3-SiN10-L75-ML75-SCFC4-BS4	K650280	A-5004-1992				
K650281	M3	Straight Styli	Stylus M3 silicon nitride ball Ø10 mm	01-M3-SiN10-L100-ML100-SCFC4-BS4	K650281	A-5004-1993				
K650282	M3	Straight Styli	Stylus M3 silicon nitride ball Ø10 mm	01-M3-SiN10-L150-ML150-SCFC4-BS4	K650282	A-5004-1994				
K650283	M3	Straight Styli	Stylus M3 silicon nitride ball Ø10 mm	01-M3-SiN10-L200-ML200-SCFC4-BS4	K650283	A-5004-1995				
K650284	M3	Straight Styli	Stylus M3 silicon nitride ball Ø12 mm	01-M3-SiN12-L100-ML100-SCFC4-BS4	K650284	A-5004-1996				
K650285	M3	Straight Styli	Stylus M3 silicon nitride ball Ø12 mm	01-M3-SiN12-L150-ML150-SCFC4-BS4	K650285	A-5004-1997				
K650286	M3	Straight Styli	Stylus M3 silicon nitride ball Ø12 mm	01-M3-SiN12-L200-ML200-SCFC4-BS4	K650286	A-5004-1998				
K650287	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø10 mm	01-M3-Zr10-L75-ML75-SCFC4-BS4	K650287	A-5004-2972				
K650288	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø10 mm	01-M3-Zr10-L100-ML100-SCFC4-BS4	K650288	A-5003-9495				
K650289	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø10 mm	01-M3-Zr10-L150-ML150-SCFC4-BS4	K650289	A-5004-2973				
K650290	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø10 mm	01-M3-Zr10-L200-ML200-SCFC4-BS4	K650290	A-5004-2974				
K650291	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø12 mm	01-M3-Zr12-L100-ML100-SCFC4-BS4	K650291	A-5004-2975				
K650292	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø12 mm	01-M3-Zr12-L150-ML150-SCFC4-BS4	K650292	A-5004-2976				
K650293	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø12 mm	01-M3-Zr12-L200-ML200-SCFC4-BS4	K650293	A-5004-2977				
K651102	M3	Straight Styli	Stylus M3 ruby ball Ø1,0mm	01-M3-R1-L21,5-ML8,5/4,5-SWC1/0,8-BS4	K651102					
K651103	M3	Straight Styli	Stylus M3 ruby ball Ø0,8mm	01-M3-R0,8-L21,6-ML8,6/4,4-SWC1/0,6-BS4	K651103					
K651104	M3	Straight Styli	Stylus M3 ruby ball Ø0,6mm	01-M3-R0,6-L21,7-ML8,7/4,3-SWC1/0,4-BS4	K651104	A-5000-7807			TM2-2010-S	
K651105	M3	Straight Styli	Stylus M3 ruby ball Ø0,5mm	01-M3-R0,5-L21,75-8,75/2,25-SWC1/0,3-BS4	K651105					
K651106	M3	Straight Styli	Stylus M3 ruby ball Ø0,3mm	01-M3-R0,3-L21,85-ML8,85/2,15-SWC1/0,2-BS4	K651106	A-5555-0273		602030-8121-000	TM3-0322-R	
K651107	M3	Straight Styli	Stylus M3 ruby ball Ø1,0mm	01-M3-R1-L10-ML5-SWC0,8-BS4	K651107	A-5555-0272		602030-8120-000		
K651108	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L19,5-ML13,28-SWC4/2-BS4	K651108					
K651109	M3	Straight Styli	Stylus M3 ruby ball Ø2,0mm	01-M3-R2-L20-ML14,9-SWC1-BS4	K651109					
K651110	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L20-ML15,6-SWC1,5-BS4	K651110					
K651111	M3	Straight Styli	Stylus M3 ruby ball Ø0,5mm	01-M3-R0,5-L20-ML2-SWC0,35-BS4	K651111	A-5000-7632		623062-3194-000	TM3-0521-02	
K651112	M3	Straight Styli	Stylus M3 ruby ball Ø1,5mm	01-M3-R1,5-L20-ML12,5-SWC1-BS4	K651112	A-5003-0050			TM3-1522	
K651113	M3	Straight Styli	Stylus M3 ruby ball Ø2,0mm	01-M3-R2-L21-ML10-SWC1-BS4	K651113					
K651114	M3	Straight Styli	Stylus M3 ruby ball Ø2,5mm	01-M3-R2,5-L21-ML14-SWC1,5-BS4	K651114	A-5003-0054			TM3-2522-DS2	
K651115	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L21-ML17-SWC2-BS4	K651115					
K651116	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L21-ML21-SWC2-BS4	K651116					
K651117	M3	Straight Styli	Stylus M3 ruby ball Ø8,0mm	01-M3-R8-L21-ML21-SWC3-BS4	K651117					
K651118	M3	Straight Styli	Stylus M3 ruby ball Ø1,5mm	01-M3-R1,5-L21,35-ML8,7-SWC1-BS4	K651118	A-5555-0271		602030-8119-000		
K651119	M3	Straight Styli	Stylus M3 ruby ball Ø 1,5mm	01-M3-R2-L30-ML22,5-SWC1-BS4	K651119	A-5003-0051			TM3-1531-DS1	

## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651120	M3	Straight Styli	Stylus M3 ruby ball Ø2,0mm	01-M3-R2-L30-ML22-SWC1,5-BS4	K651120	A-5003-0052			TM3-2031	
K651121	M3	Straight Styli	Stylus M3 ruby ball Ø2,5mm	01-M3-R2,5-L30-ML22-SWC2-BS4	K651121	A-5003-0055			TM3-2531-DS2	
K651122	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L30-ML22,5-SWC2-BS4	K651122	A-5003-0057			TM3-3031.5	
K651123	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L30-ML27-SWC2-BS4	K651123					
K651124	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L31-ML31-SWC2-BS4	K651124					
K651126	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L38,5-ML22-SWC2-BS5,5	K651126					
K651127	M3	Straight Styli	Stylus M3 ruby ball Ø2mm	01-M3-R2-L40-ML32,5-SWC2-BS4	K651127	A-5003-0053			TM3-2041	M00-1121-026-000
K651128	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L40-ML32-SWC2-BS4	K651128	A-5003-0056			TM3-2541-DS2	
K651129	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L40-ML32,5-SWC2-BS4	K651129	A-5003-0058			TM3-3041.5	
K651130	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L40-ML36-SWC2-BS4	K651130	A-5003-0060			TM3-4042	
K651131	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L40-ML40-SWC2-BS4	K651131	A-5003-0062			TM3-5042.5	
K651132	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L50-ML42,5-SWC2-BS4	K651132	A-5003-0059			TM3-3051.5	
K651133	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L50-ML46-SWC2-BS4	K651133	A-5003-0061			TM3-4052	
K651134	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L50-ML50-SWC2-BS4	K651134	A-5003-0063			TM3-5052.5	
K651135	M3	Straight Styli	Stylus M3 ruby ball Ø6,0mm	01-M3-R6-L10-ML10-SCER2-BS4	K651135					
K651136	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L21-ML17-SCER2-BS4	K651136					
K651137	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L21-ML21-SCER2-BS4	K651137					
K651138	M3	Straight Styli	Stylus M3 ruby ball Ø8,0mm	01-M3-R8-L21-ML21-SCER3-BS4	K651138					
K651139	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L29,5-ML29,5-SCER2-BS4	K651139					
K651140	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L30-ML27-SCER2-BS4	K651140					
K651141	M3	Straight Styli	Stylus M3 ruby ball Ø4 mm	01-M3-R4-L40-ML36-SCER2-BS4	K651141	A-5004-0154				
K651142	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L40-ML40-SCER2-BS4	K651142					
K651143	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L50-ML43-SCER2-BS4	K651143	A-5003-0067			TM3-3051.5-C	
K651144	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L50-ML45,5-SCER2-BS4	K651144					
K651145	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L50-ML50-SCER2,5-BS4	K651145	A-5003-0069			TM3-5052.5-C	M00-1121-020-000
K651146	M3	Straight Styli	Stylus M3 ruby ball Ø1,0mm	01-M3-R1-L21-ML4-SS0,7-BS4	K651146	A-5000-3551			TM3-1021-S	
K651147	M3	Straight Styli	Stylus M3 ruby ball Ø2,0mm	01-M3-R2-L21-ML8-SS1,4-BS4	K651147	A-5000-3552			TM3-2022-S	
K651148	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L21-ML12-SS1,5-BS4	K651148	A-5000-3553			TM3-3022-S	
K651149	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L21-ML17-SS2,5-BS4	K651149	A-5000-7606			TM3-4023-S	
K651150	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L21-ML21-SS2,5-BS4	K651150	A-5000-7630			TM3-5023-S	
K651151	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L31-ML27-SS2,5-BS4	K651151	A-5000-3554			TM3-4033-S	
K651152	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L31-ML31-SS4	K651152	A-5000-7648			TM3-5033-S	
K651297	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L21-ML14,7-SCFC2-BS4	K651297	A-5003-5970				
K651298	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L21-ML13,5-SCFC3-BS4	K651298	A-5003-5971				
K651299	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L31-ML23,5-SCFC3-BS4	K651299	A-5003-5972				
K651300	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L40-ML32,5-SCFC3-BS4	K651300	A-5003-5973				
K651301	M3	Straight Styli	Stylus M3 silicon nitride ball Ø4,0mm	01-M3-SN4-L21-ML13,5-SCFC3-BS4	K651301	A-5003-5977				
K651302	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L21-ML21-SCFC3-BS4	K651302	A-5003-5975				
K651303	M3	Straight Styli	Stylus M3 ruby ball Ø5,0mm	01-M3-R5-L50-ML50-SCFC3-BS4	K651303	A-5003-5974				
K651304	M3	Straight Styli	Stylus M3 silicon nitride ball Ø5,0mm	01-M3-SN5-L21-ML21-SCFC3-BS4	K651304	A-5003-5978				
K651305	M3	Straight Styli	Stylus M3 ruby ball Ø6,0mm	01-M3-R6-L50-ML50-SCFC4-BS4	K651305	A-5003-5976				
K651306	M3	Straight Styli	Stylus M3 ruby ball Ø6,0mm	01-M3-R6-L75-ML75-SCFC4-BS4	K651306	A-5003-4860			TM3-6078-G	



## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651307	M3	Straight Styli	Stylus M3 ruby ball Ø6,0mm	01-M3-R6-L100-ML100-SCFC4-BS4	K651307	A-5003-4861			TM3-60103-G	
K651308	M3	Straight Styli	Stylus M3 ruby ball Ø8,0mm	01-M3-R8-L75-ML75-SCFC4-BS4	K651308	A-5003-4862			TM3-8079-G	M00-694-241-000
K651309	M3	Straight Styli	Stylus M3 ruby ball Ø8,0mm	01-M3-R8-L100-ML100-SCFC4-BS4	K651309	A-5003-4863			TM3-80104-G	M00-694-231-000
K651310	M3	Straight Styli	Stylus M3 ruby ball ø10 mm	01-M3-R10-L75-ML75-SCFC4-BS4	K651310	A-5003-7057				
K651311	M3	Straight Styli	Stylus M3 ruby ball ø10 mm	01-M3-R10-L100-ML100-SCFC4-BS4	K651311	A-5003-7056				
K651312	M3	Straight Styli	Stylus M3 ruby ball ø10 mm	01-M3-R10-L150-ML150-SCFC4-BS4	K651312	A-5003-7055				
K651313	M3	Straight Styli	Stylus M3 ruby ball ø10 mm	01-M3-R10-L200-ML200-SCFC4-BS4	K651313	A-5003-7054				
K651329	M3	Straight Styli	Stylus M3 ruby ball Ø1,0mm	01-M3-R1L22-ML12-SWC0,8-BS4	K651329	A-5004-2442				
K651330	M3	Straight Styli	Stylus M3 ruby ball Ø1,5mm	01-M3-R1,5-L32-ML25-SWC0,8-BS4	K651330					
K651331	M3	Straight Styli	Stylus M3 ruby ball Ø2,0mm	01-M3-R2-L69-ML62,5-SWC2-BS4	K651331					
K651332	M3	Straight Styli	Stylus M3 ruby ball Ø3,0mm	01-M3-R3-L64-ML50-SWC2-BS4	K651332					
K651333	M3	Straight Styli	Stylus M3 ruby ball Ø4,0mm	01-M3-R4-L57-ML53-SWC2-BS4	K651333					
K651334	M3	Straight Styli	Stylus M3 ruby ball Ø8,0mm	01-M3-R8-L130-ML110-SCER4-BS6	K651334					
K651363	M3	Straight Styli	Stylus M3 ruby ball Ø1,0mm XXT	01-M3-R1-L29,5-ML20,5/4,5-SWC0,8-BTi4	K651363	A-5004-3427		626113-0100-030	TM3-1030-TX	
K651365	M3	Straight Styli	Stylus M3 ruby ball Ø1,0mm	01-M3-R1-L20-ML12,5-SWC0,7-BS4	K651365	A-5004-2442				
K651366	M3	Straight Styli	Stylus M3 silicon nitride ball Ø0,3mm	01-M3-SiN0,3-L21,85-ML8,85/2,15-SWC1/0,2-BS4	K651366					
K651367	M3	Straight Styli	Stylus M3 silicon nitride ball Ø0,5mm	01-M3-SiN0,5-L21,75-ML8,75/2,25-SWC1/0,3-BS4	K651367					
K651368	M3	Straight Styli	Stylus M3 silicon nitride ball Ø1,0mm	01-M3-SiN1-L32-ML25-SWC0,8-BS4	K651368					
K651369	M3	Straight Styli	Stylus M3 silicon nitride ball Ø1,5mm	01-M3-SiN1,5-L30-ML22,5-SWC1-BS4	K651369	A-5003-8091				
K651370	M3	Straight Styli	Stylus M3 silicon nitride ball ø2,5 mm	01-M3-SiN2,5-L30-ML22,5-SWC2-BS4	K651370	A-5004-1983				
K651371	M3	Straight Styli	Stylus M3 silicon nitride ball ø2,5 mm	01-M3-SiN2,5-L40-ML32,5-SWC2-BS4	K651371	A-5004-1986				
K651432	M3	Straight Styli	Stylus M3 silicon nitride ball Ø2,0mm	01-M3-SN2-L20-ML14,9-SWC1-BS4	K651432					
K651433	M3	Straight Styli	Stylus M3 silicon nitride ball Ø2,0mm	01-M3-SN2-L30-ML22,5-SCFC1,5-BS4	K651433	A-5003-5724				
K651434	M3	Straight Styli	Stylus M3 silicon nitride ball Ø3,0mm	01-M3-SN3-L30-ML22,5-SCFC2-BS4	K651434	A-5004-1984				
K651435	M3	Straight Styli	Stylus M3 silicon nitride ball Ø3,0mm	01-M3-SN3-L40-ML32,5-SCFC2-BS4	K651435	A-5004-1987				
K651436	M3	Straight Styli	Stylus M3 silicon nitride ball Ø4,0mm	01-M3-SN4-L40-ML36-SCFC2-BS4	K651436	A-5004-1195				
K651437	M3	Straight Styli	Stylus M3 silicon nitride ball Ø4,0mm	01-M3-SN4-L50-ML46-SCFC2-BS4	K651437	A-5004-1988				
K651560	M3	Straight Styli	Stylus M3 silicon nitride ball Ø4,0mm	01-M3-SiNi4-L21-ML17,2-SS2,5-BS4	K651560	A-5003-5061			TM3-4023-S-SN	
K651561	M3	Straight Styli	Stylus M3 silicon nitride ball Ø2,0mm	01-M3-SN2-L21-ML9,8-SS1,4-BS4	K651561	A-5003-5723			TM3-2022-S-SN	
K651563	M3	Straight Styli	"Stylus M3 silicon nitride ball Ø4,0mm"	01-M3-SiNi4-L50-ML46-SCER2-BS4	K651563	A-5003-5725			TM3-4052-C-SN	
K651564	M3	Straight Styli	Stylus M3 silicon nitride ball Ø6,0mm	01-M3-SiNi6-L75-ML75-SCFC4-BS4	K651564	A-5003-5726			TM3-6078-G-SN	
K651565	M3	Straight Styli	Stylus M3 ruby ball Ø6,0mm	01-M3-R6-L100-ML100-SCFC4-BS4	K651565	A-5003-5727			TM3-60103-G-SN	
K651566	M3	Straight Styli	Stylus M3 zirconium ball ø2,0mm	01-M3-Zi2-L21-ML9,96-SS1,4-BS4	K651566	A-5003-5736				
K651567	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø4,0mm	01-M3-Zi4-L21-ML17,2-SS1,4-BS4	K651567	A-5003-5737				
K651568	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø2,0mm	01-M3-Zi2-L30-ML22,8-SWC1,5-BS4	K651568	A-5003-5738				
K651569	M3	Straight Styli	Stylus M3 zirconium oxide ball Ø4,0mm	01-M3-Zi4-L50-ML46-SCER2-BS4	K651569	A-5003-5739				
K651570	M3	Straight Styli	Stylus M3 ruby ball Ø6,0mm	01-M3-R6-L75-ML75-SCFC4-BS4	K651570	A-5003-5740				
K651571	M3	Straight Styli	Stylus M3 ruby ball Ø6,0mm	01-M3-R6-L100-ML100-SCFC4-BS4	K651571	A-5003-5741				
K651575	M3	Straight Styli	Stylus M3 silicon nitride ball ø3,0mm	01-M3-SiN3-L50-ML43-SCER2-BS3	K651575	A-5004-1989			TM3-3051.5-C-SN	
K651577	M3	Straight Styli	Stylus M3 silicon nitride ball ø6,0mm	01-M3-SiNi6-L75-ML75-SCFC4-BS4	K651577	A-5003-5726			TM3-6078-G-SN	
K651579	M3	Straight Styli	Stylus M3 silicon nitride ball ø2,0mm	01-M3-SiNi2-L40-ML32,5-SWC1,5-BS4	K651579	A-5004-1985				
K651580	M3	Straight Styli	Stylus M3 silicon nitride ball ø5,0mm	01-M3-SiNi5-L50-ML50-SWC2-BS4	K651580	A-5004-1201				

## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651581	M3	Straight Styli	Stylus M3 silicon nitride ball ø1,0mm	01-M3-SiN1-L22-ML12-SWC0,8-BS4	K651581					
K651640	M3	Straight Styli	Stylus M3 ruby ball ø0,5mm	01-M3-R0,5-L12,75-ML3,75/2,05-SWC0,3/1-BTi4	K651640					
K651641	M3	Straight Styli	Stylus M3 ruby ball ø0,5mm	01-M3-R0,5-L19,75-ML10,75/2,05-SWC0,3/1-BTi4	K651641					
K651660	M3	Straight Styli	Stylus M3 ruby ball ø2,0mm	01-M3-R2-L19-ML10,3-SWC1-BTi4	K651660					
K651745	M3	Straight Styli	Stylus M3 ruby ball ø2,0mm	01-M3-R2-L20-ML12,5-SWC1,5-BS4	K651745	A-5003-3676				
K651777	M3	Straight Styli	Stylus M3 silicon nitride ball ø2 mm	01-M3-SiN2-L40-ML32,5-SWC1,5-BS4	K651777	A-5004-1985				
K651785	M3	Straight Styli	Stylus M3 ruby ball 4,0mm	01-M3-R4-L50-ML422,5-SCFC3-BS4	K651785					
K651786	M3	Straight Styli	Stylus M3 zirconium oxide ø5,0mm	01-M3-Zi5-L40-ML32-SWC2-BS4	K651786	A-5004-2966			TM3-5042.5-Z	
K651787	M3	Straight Styli	Stylus M3 silicon nitride ball ø5,0mm	01-M3-SiN15-L21-ML17-SS2,5-BS4	K651787	A-5003-6695				
K651793	M3	Straight Styli	Stylus M3 silicon nitride ball ø6,0mm	01-M3--SiN6-L100-ML100-SCFC4-BS4	K651793	A-5003-5727			TM3-60103-G-SN	
K651807	M3	Straight Styli	Stylus M3 ruby ball ø4,0mm Grade 3	01-M3-R4-L50-ML46-SWC2-BS4-Grade 3	K651807					
K651809	M3	Straight Styli	Stylus M2 silicon nitride ball ø2,0mm	01-M2-SiN2-L40-ML32,5-SWC1,5-BS3	K651809	A-5003-7269			TM2-2041-SN	
K651910	M3	Straight Styli	Stylus M3 silicon nitride ball ø4 mm	01-M3-SiN4-L31-ML27-SS2,5-BS4	K651910	A-5004-1980				
K651911	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L31-ML27-SS2,5-BS4	K651911	A-5004-2957				
K651919	M3	Straight Styli	Stylus M3 silicon nitride ball ø0,5 mm	01-M3-SiN0,5-L21-ML2-SWC0,4-BS4	K651919	A-5004-2023				
K651920	M3	Straight Styli	Stylus M3 zirconium oxide ball ø0,5 mm	01-M3-Zr0,5-L21-ML2-SWC0,4-BS4	K651920	A-5004-2959				
K651921	M3	Straight Styli	Stylus M3 zirconium oxide ball ø2,5 mm	01-M3-Zr2,5-L30-ML22,5-SWC2-BS4	K651921	A-5004-2963				
K651922	M3	Straight Styli	Stylus M3 silicon nitride ball ø5 mm	01-M3-SiN5-L50-ML50-SCER2,5-BS4	K651922	A-5004-1990				
K651923	M3	Straight Styli	Stylus M3 zirconium oxide ball ø5 mm	01-M3-Zr5-L50-ML50-SCER2,5-BS4	K651923	A-5004-2970				
K651924	M3	Straight Styli	Stylus M3 zirconium oxide ball ø6 mm	01-M3-Zr6-L75-ML75-SCFC4-BS4	K651924	A-5003-5740				
K651956	M3	Straight Styli	Stylus M3 ruby ball ø1 mm	01-M3-R1-L10-ML4-SS0,7-BS4	K651956	A-5004-7401				
K651957	M3	Straight Styli	Stylus M3 ruby ball ø2 mm	01-M3-R2-L10-ML6-SS1,5-BS4	K651957	A-5004-0421				
K651958	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L10-ML6,5-SS1,5-BS4	K651958	A-5004-0422				
K651959	M3	Straight Styli	Stylus M3 ruby ball ø4 mm	01-M3-R4-L10-ML7-SS2,5-BS4	K651959	A-5004-0423				
K651960	M3	Straight Styli	Stylus M3 silicon nitride ball ø1 mm	01-M3-SiN1-L21-ML4-SS0,6-BS4	K651960	A-5004-1979				
K651961	M3	Straight Styli	Stylus M3 silicon nitride ball ø3 mm	01-M3-SiN3-L21-ML12-SS1,5-BS4	K651961	A-5003-6257				
K651962	M3	Straight Styli	Stylus M3 silicon nitride ball ø4 mm	01-M3-SiN4-L21-ML17,2-SS2,5-BS4	K651962	A-5003-5061				
K651963	M3	Straight Styli	Stylus M3 silicon nitride ball ø5 mm	01-M3-SiN5-L31-ML31-SS3,5-BS4	K651963	A-5004-1981				
K651964	M3	Straight Styli	Stylus M3 zirconium oxide ball ø1 mm	01-M3-Zr1-L21-ML4-SS0,6-BS4	K651964	A-5004-2955				
K651965	M3	Straight Styli	Stylus M3 zirconium oxide ball ø3 mm	01-M3-Zr3-L21-ML12-SS1,5-BS4	K651965	A-5004-2956				
K651966	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L21-ML17,2-SS2,5-BS4	K651966	A-5003-5737				
K651967	M3	Straight Styli	Stylus M3 zirconium oxide ball ø5 mm	01-M3-Zr5-L21-ML21-SS2,5-BS4	K651967	A-5003-9500				
K651968	M3	Straight Styli	Stylus M3 zirconium oxide ball ø5 mm	01-M3-Zr5-L31-ML31-SS3,5-BS4	K651968	A-5004-2958				
K651969	M3	Straight Styli	Stylus M3 silicon nitride ball ø1,5 mm	01-M3-SiN1,5-L20-ML12,5-SWC1-BS4	K651969	A-5004-1198				
K651970	M3	Straight Styli	Stylus M3 silicon nitride ball ø2,5 mm	01-M3-SiN2,5-L20,2-ML12,5-SWC2-BS4	K651970	A-5004-1982				
K651972	M3	Straight Styli	Stylus M3 zirconium oxide ball ø1,5 mm	01-M3-Zr1,5-L20-ML12,5-SWC1-BS4	K651972	A-5004-2960				
K651973	M3	Straight Styli	Stylus M3 zirconium oxide ball ø2,5 mm	01-M3-Zr2,5-L20,2-ML12,5-SWC2-BS4	K651973	A-5004-2961				
K651974	M3	Straight Styli	Stylus M3 zirconium oxide ball ø1,5 mm	01-M3-Zr1,5-L30-ML22,5-SWC1-BS4	K651974	A-5004-2962				
K651975	M3	Straight Styli	Stylus M3 zirconium oxide ball ø2 mm	01-M3-Zr2-L30-ML22,5-SWC1,5-BS4	K651975	A-5003-5738				
K651976	M3	Straight Styli	Stylus M3 zirconium oxide ball ø3 mm	01-M3-Zr3-L30-ML22,5-SWC2-BS4	K651976	A-5003-6766				
K651977	M3	Straight Styli	Stylus M3 zirconium oxide ball ø2 mm	01-M3-Zr2-L40-ML32,5-SWC1,5-BS4	K651977	A-5003-2043				
K651978	M3	Straight Styli	Stylus M3 zirconium oxide ball ø2,5 mm	01-M3-Zr2,5-L40-ML32,5-SWC2-BS4	K651978	A-5004-2964				

## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
K651979	M3	Straight Styli	Stylus M3 zirconium oxide ball ø3 mm	01-M3-Zr3-L40-ML32,5-SWC2-BS4	K651979	A-5004-2965				
K651980	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L40-ML36-SWC2-BS4	K651980	A-5003-6767				
K651981	M3	Straight Styli	Stylus M3 silicon nitride ball ø5 mm	01-M3-SiN5-L40-ML40-SWC2,5-BS4	K651981	A-5004-1718				
K651982	M3	Straight Styli	Stylus M3 silicon nitride ball ø3 mm	01-M3-SiN3-L50-ML42,5-SWC2-BS4	K651982	A-5004-1199				
K651983	M3	Straight Styli	Stylus M3 zirconium oxide ball ø3 mm	01-M3-Zr3-L50-ML42,5-SWC2-BS4	K651983	A-5004-2968				
K651984	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L50-ML46-SWC2-BS4	K651984	A-5003-6768				
K651985	M3	Straight Styli	Stylus M3 zirconium oxide ball ø5 mm	01-M3-Zr5-L50-ML50-SWC2,5-BS4	K651985	A-5003-7665				
K651986	M3	Straight Styli	Stylus M3 ruby ball ø2,5 mm	01-M3-R2-L40-ML32,5-SCER1,5-BS4	K651986	A-5004-3646				
K651987	M3	Straight Styli	Stylus M3 ruby ball ø2,5 mm	01-M3-R2,5-L40-ML32,5-SCER2-BS4	K651987	A-5004-2545				
K651988	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L40-ML32,536-SCER2-BS4	K651988	A-5004-6040				
K651989	M3	Straight Styli	Stylus M3 ruby ball ø5 mm	01-M3-R5-L40-ML40-SCER2,5-BS4	K651989	A-5004-6735				
K651990	M3	Straight Styli	Stylus M3 zirconium oxide ball ø3 mm	01-M3-Zr3-L50-ML43,7-SCER2-BS4	K651990	A-5004-2969				
K651991	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L50-ML46-SCER2-BS4	K651991	A-5003-5739				
K651667	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L23,5-ML14,5-SCFC2-BTi5-XXT	K651667	A-5555-3859		626103-0300-025	TM3-3025-TX	
K651668	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L31,5-ML22,5-SCFC2-BTi5-XXT	K651668	A-5004-0802		626103-0300-033	TM3-3033-TX	
K651669	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L38,5-ML29,5-SCFC2-BTi5-XXT	K651669	A-5555-1251		626103-0300-040	TM3-3040-TX	
K651671	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L48,5-ML39,5-SCFC2-BTi5-XXT	K651671	A-5004-0803		626103-0300-050	TM3-3050-TX	
K651672	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L56,5-ML47,5-SCFC2-BTi5-XXT	K651672	A-5555-3860		626103-0300-058	TM3-3058-TX	
K651674	M3	Straight Styli	Stylus M3 ruby ball ø3 mm	01-M3-R3-L73,5-ML64,5-SCFC2-BTi5-XXT	K651674	A-5555-3862		626103-0300-075	TM3-3075-TX	
K651675	M3	Straight Styli	Stylus M3 ruby ball ø4 mm	01-M3-R4-L48-ML39-SCFC2-BTi5-XXT	K651675	A-5004-2786		626103-0401-050	TM3-4050-TX	
K651676	M3	Straight Styli	Stylus M3 ruby ball ø4 mm	01-M3-R4-L73-ML64-SCFC3,5-BTi5-XXT	K651676			626103-0400-075	TM3-4075-TX	
K651677	M3	Straight Styli	Stylus M3 ruby ball ø5 mm	01-M3-R5-L27,5-ML18,5-SCFC3,5-BTi5-XXT	K651677			626103-0500-030	TM3-5030-TX	
K651678	M3	Straight Styli	Stylus M3 ruby ball ø5 mm	01-M3-R5-L37,5-ML28,5-SCFC3,5-BTi5-XXT	K651678	A-5555-3863		626103-0500-040	TM3-5040-TX	
K651679	M3	Straight Styli	Stylus M3 ruby ball ø5 mm	01-M3-R5-L47,5-ML38,5-SCFC3,5-BTi5-XXT	K651679	A-5004-0806		626103-0500-050	TM3-5050-TX	
K651680	M3	Straight Styli	Stylus M3 ruby ball ø5 mm	01-M3-R5-L57,5-ML48,5-SCFC3,5-BTi5-XXT	K651680	A-5555-3864		626103-0500-060	TM3-5060-TX	
K651681	M3	Straight Styli	Stylus M3 ruby ball ø5 mm	01-M3-R5-L72,5-ML63,5-SCFC3,5-BTi5-XXT	K651681	A-5555-1114		626103-0501-075	TM3-5075-TX	
K651682	M3	Straight Styli	Stylus M3 ruby ball ø6 mm	01-M3-R6-L47-ML37-SCFC3,5-BTi5-XXT	K651682	A-5004-3429		626103-0600-050	TM3-6050-TX	
K651683	M3	Straight Styli	Stylus M3 ruby ball ø6 mm	01-M3-R6-L67-ML58-SCFC3,5-BTi5-XXT	K651683			626103-0610-070	TM3-6070-TX	
K651684	M3	Straight Styli	Stylus M3 ruby ball ø6 mm	01-M3-R6-L97-ML88-SCFC3,5-BTi5-XXT	K651684	A-5555-1115		626103-0600-100	TM3-60100-TX	
K651686	M3	Straight Styli	Stylus M3 ruby ball ø8 mm	01-M3-R8-L46-ML46-SCFC5-BTi5-XXT	K651686			626103-0830-050	TM3-8050-TX	
K651687	M3	Straight Styli	Stylus M3 ruby ball ø8 mm	01-M3-R8-L66-ML66-SCFC5-BTi5-XXT	K651687			626103-0830-070	TM3-8070-TX	
K651688	M3	Straight Styli	Stylus M3 ruby ball ø8 mm	01-M3-R8-L96-ML96-SCFC5-BTi5-XXT	K651688			626103-0830-100	TM3-80100-TX	
K651689	M3	Straight Styli	Stylus M3 ruby ball ø8 mm	01-M3-R8-L121-ML121-SCFC5-BTi5-XXT	K651689	A-5004-0808		626103-0800-125	TM3-80125-TX	
K650265	M3	Straight Styli	Stylus M3 silicon nitride ball ø3 mm	01-M3-SiN3-L21-ML14,7-SCFC2-BS4	K650265					
K650268	M3	Straight Styli	Stylus M3 silicon nitride ball ø4 mm	01-M3-SiN4-L31-ML23,5-SCFC3-BS4	K650268					
K650300	M3	Straight Styli	Stylus M3 silicon nitride ball ø4 mm	01-M3-SiN4-L40-ML32,5-SCFC3-BS4	K650300					
K650349	M3	Straight Styli	Stylus M3 silicon nitride ball ø5 mm	01-M3-SiN5-L50-ML50-SCFC3-BS4	K650349					
K650266	M3	Straight Styli	Stylus M3 zirconium oxide ball ø3 mm	01-M3-Zr3-L21-ML14,7-SCFC2-BS4	K650266					
K650267	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L21-ML13,5-SCFC4-BS4	K650267					
K650269	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L31-ML23,5-SCFC3-BS4	K650269					
K650348	M3	Straight Styli	Stylus M3 zirconium oxide ball ø4 mm	01-M3-Zr4-L40-ML32,5-SCFC3-BS4	K650348					
K650350	M3	Straight Styli	Stylus M3 zirconium oxide ball ø5 mm	01-M3-Zr5-L50-ML50-SCFC3-BS4	K650350					

## Stylus Cross Reference Table M3

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K650352</b>	M3	Straight Styli	Stylus M3 silicon nitride ball ø6 mm	01-M3-SiN6-L50-ML50-SCFC3-BS4	<b>K650352</b>					
<b>K650351</b>	M3	Straight Styli	Stylus M3 zirconium oxide ball ø5 mm	01-M3-Zr5-L21-ML21-SCFC3-BS4	<b>K650351</b>					
<b>K650353</b>	M3	Straight Styli	Stylus M3 zirconium oxide ball ø6 mm	01-M3-Zr6-L50-ML50-SCFC4-BS4	<b>K650353</b>					
<b>K651999</b>	M3	Straight Styli	Stylus M3 silicon nitride ball ø4 mm	01-M3-SiN4-L100-ML96-SCFC2-BS3	<b>K651999</b>					
<b>K651998</b>	M3	Straight Styli	Stylus M3 silicon nitride ball ø3 mm	01-M3-SiN3-L50-ML42-SCFC1,5-BS3	<b>K651998</b>					
<b>K651165</b>	M3	Styli for 5 - way Styli	Stylus for multi-way M3 ruby ball Ø2,0mm	01-M3-R2-L18,5-ML11,58-SS1,5-BS4,5	<b>K651165</b>					
<b>K651166</b>	M3	Styli for 5 - way Styli	Stylus for multi-way M3 ruby ball Ø2,0mm	01-M3-R2-L28,5-ML13,25-SS1,5-BS4,5	<b>K651166</b>					
<b>K650377</b>	M3	Straight Styli, High Precision	High Precision Stylus M3, ruby ball 1,0mm	01-M3-R1-GR3-L21-ML4-SS0,7-BS4	<b>K650377</b>	A-5003-4128				
<b>K650378</b>	M3	Straight Styli, High Precision	High Precision Stylus M3, ruby ball 4,0mm	01-M3-R5-GR3-L21-ML21-SS2,5-BS4	<b>K650378</b>	A-5003-4130				
<b>K650379</b>	M3	Straight Styli, High Precision	High Precision Stylus M3, ruby ball 5,0mm	01-M3-R4-GR3-L31-ML27-SS2,5-BS4	<b>K650379</b>	A-5003-4129				
<b>K650377</b>	M3	Straight Styli, High Precision	High Precision Stylus M3, ruby ball 1,0mm	01-M3-R1-GR3-L21-ML4-SS0,7-BS4	<b>K650377</b>	A-5003-4128				
<b>K650378</b>	M3	Straight Styli, High Precision	High Precision Stylus M3, ruby ball 4,0mm	01-M3-R5-GR3-L21-ML21-SS2,5-BS4	<b>K650378</b>	A-5003-4130				
<b>K650379</b>	M3	Straight Styli, High Precision	High Precision Stylus M3, ruby ball 5,0mm	01-M3-R4-GR3-L31-ML27-SS2,5-BS4	<b>K650379</b>	A-5003-4129				

## Stylus Cross Reference Table M4

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651207</b>	M4	Adapters	Adapter M4-M2 stainless steel	07-M4-M2-L5-SS7	<b>K651207</b>	A-5004-7595	M-5000-6622	602030-0316-000	RM4-M2	
<b>K651208</b>	M4	Adapters	Adapter M4-M3 stainless steel	07-M4-M3-L9-SS4,2-BS7	<b>K651208</b>	A-5004-7597	M-5000-6714	602030-0317-000	RM4-M3	
<b>K651209</b>	M4	Adapters	Adapter M4-M3 stainless steel	07-M4-M3-L20-SS4,2-BS7	<b>K651209</b>	A-5004-7596	M-5000-6625		RM4-M3-L	M00-1126-012-000
<b>K651212</b>	M4	Adapters	Adapter M4-M2 stainless steel	07-M4-M2-L10-SS7/3,2	<b>K651212</b>					
<b>K651213</b>	M4	Adapters	Adapter M4-M3 stainless steel	07-M4-M3-L10-SS7/4,2	<b>K651213</b>					
<b>K651214</b>	M4	Adapters	Adapter M4-M3 ceramic	07-M4-M3-L50-ML34-SCFC4,5-BS7/4	<b>K651214</b>	A-5000-7751			RM4(50)-M3-C	
<b>K651215</b>	M4	Adapters	Adapter M4-M3 ceramic	07-M4-M3-L75-ML59-SCFC4,5-BS7/4	<b>K651215</b>	A-5000-7752			RM4(75)-M3-C	
<b>K651216</b>	M4	Adapters	Adapter M4-M3 ceramic	07-M4-M3-L100-ML84-SCFC4,5-BS7/4	<b>K651216</b>	A-5000-7753			RM4(100)-M3-C	
<b>K651199</b>	M4	Extensions	Extension M4, stainless steel L 10,0mm	06-M4-L10-SS7	<b>K651199</b>	A-5004-7599	M-5000-7583		VM4-10	
<b>K651200</b>	M4	Extensions	Extension M4, stainless steel L 15,0mm	06-M4-L15-SS7	<b>K651200</b>	A-5004-7600	M-5000-7584		VM4-15	
<b>K651201</b>	M4	Extensions	Extension M4, stainless steel L 20,0mm	06-M4-L20-SS7	<b>K651201</b>	A-5004-7601	M-5000-7585		VM4-20	
<b>K651202</b>	M4	Extensions	Extension M4, stainless steel L 30,0mm	06-M4-L30-SS7	<b>K651202</b>	A-5004-7602	M-5000-7586			
<b>K651203</b>	M4	Extensions	Extension M4, ceramic L 30,0mm	06-M4-L30-SCER7-BS7	<b>K651203</b>	A-5000-7754			VM4-30-C	
<b>K651204</b>	M4	Extensions	Extension M4, ceramic L 50,0mm	06-M4-L50-SCER7-BS7	<b>K651204</b>	A-5000-7755			VM4-50-C	
<b>K651205</b>	M4	Extensions	Extension M4, ceramic L 100,0mm	06-M4-L100-SCER7-BS7	<b>K651205</b>	A-5000-7727			VM4-100-C	
<b>K651582</b>	M4	Extensions	Extension M4, ceramic L 200,0mm	06-M4-L200-BCER7	<b>K651582</b>	A-5003-0587				
<b>K651206</b>	M4	Holders	5-way stylus holder M4 rotatable	10-5-M4-L18-BS15	<b>K651206</b>	A-5000-7792			KM4-18	
<b>K651455</b>	M4	Holders	5-way stylus holder M5	10-M5-L20-BS	<b>K651455</b>	A-5004-7594	M-5000-6460			
<b>K651448</b>	M4	Joints	Swivel joint M4	09-M4-L33-SS	<b>K651448</b>	A-5003-4689			RJM4-33	
<b>K651451</b>	M4	Joints	Joint M4, stainless steel	09-M4-L15-BS	<b>K651451</b>	A-5003-0588				
<b>K651635</b>	M4	Joints	Joint M5, stainless steel	09-M4-L21,9-BS	<b>K651635</b>	A-5004-7605	M-5000-7589			
<b>K651636</b>	M4	Joints	Joint M4, stainless steel	09-M4-L27,6-BS	<b>K651636</b>	A-5004-7606	M-5000-7590			
<b>K650215</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 4,0mm	01-M4-R4-L50-ML33,5-SCER3-BS7-components vacuum brazed	<b>K650215</b>	A-5003-0233			TM4-4052-C	
<b>K650216</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 8,0mm	01-M4-R8-L50-ML50-SCER4,5-BS7-components vacuum brazed	<b>K650216</b>	A-5000-7795			TM4-8054-C	
<b>K650217</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 8,0mm	01-M4-R8-L100-ML100-CER4,5-BS7-components vacuum brazed	<b>K650217</b>	A-5000-7796			TM4-80104-C	

## Stylus Cross Reference Table M4

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651555</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 6,0mm	01-M4-R6-L50-ML38,5-CER4,5-BS7-components vacuum brazed	<b>K651555</b>	A-5000-3709			TM4-6053-C	
<b>K651556</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 6,0mm	01-M4-R6-L100-ML88,5-CER4,5-BS7-components vacuum brazed	<b>K651556</b>	A-5000-3712			TM4-60103-C	
<b>K651573</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 2,0mm	01-M4-R2-L19,2-ML9-SS1,4-BS7-components vacuum brazed	<b>K651573</b>	A-5000-7547			TM4-2020-S	
<b>K651574</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 3,0mm	01-M4-R3-L18,5-ML13-SS3-2-BS7-components vacuum brazed	<b>K651574</b>	A-5000-7549			TM4-3020-S	
<b>K651700</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 1,0mm	01-M4-R1-L19,5-ML5-SS0,7-BS7-components vacuum brazed	<b>K651700</b>	A-5000-7545			TM4-1020-S	
<b>K651701</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 4,0mm	01-M4-R4-L18-ML13,7-SS3-BS7-components vacuum brazed	<b>K651701</b>	A-5000-7551			TM4-4020-S	
<b>K651702</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 5,0mm	01-M4-R5-L50-ML33,5-SS4,5-BS7-components vacuum brazed	<b>K651702</b>	A-5000-7521			TM4-5052.5-S	
<b>K651703</b>	M4	Machine Tool Styli	Machine Tool Stylus M4 ruby ball 5,0mm	01-M4-R5-L100-ML83-SS4,5-BS7-components vacuum brazed	<b>K651703</b>	A-5000-7522			TM4-50102-S	
<b>K651181</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L47-ML36,15-SCER4-BS7	<b>K651181</b>					
<b>K651182</b>	M4	Straight Styli	Stylus M4 ruby ball Ø8,0mm	01-M4-R8-L50-ML50-SCER4,5-BS7	<b>K651182</b>	A-5000-7795			TM4-8054-C	
<b>K651183</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L97-ML86-SCER4-BS7	<b>K651183</b>					
<b>K651184</b>	M4	Straight Styli	Stylus M4 ruby ball Ø8,0mm	01-M4-R8-L100-ML100-SCER4,5-BS7	<b>K651184</b>	A-5000-7796			TM4-80104-C	
<b>K651185</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L17,5-ML12,5-SS3,5-BS7	<b>K651185</b>	A-5000-7553			TM4-5020-S	
<b>K651186</b>	M4	Straight Styli	Stylus M4 ruby ball Ø1,0mm	01-M4-R1-L19,5-ML4-SS0,7-BS7	<b>K651186</b>	A-5000-7545			TM4-1020-S	
<b>K651187</b>	M4	Straight Styli	Stylus M4 ruby ball Ø2,0mm	01-M4-R2-L19-ML8-SS1,35-BS7	<b>K651187</b>	A-5000-7547			TM4-2020-S	
<b>K651188</b>	M4	Straight Styli	Stylus M4 ruby ball Ø4,0mm	01-M4-R4-L18-ML13-SS3-BS7	<b>K651188</b>	A-5000-7551			TM4-4020-S	
<b>K651189</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L20-ML15-SS3,5-BS7	<b>K651189</b>	A-5000-7553			TM4-5020-S	
<b>K651190</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L20-ML15,5-SS4-BS7	<b>K651190</b>	A-5000-7555			TM4-6020-S	
<b>K651191</b>	M4	Straight Styli	Stylus M4 ruby ball Ø8,0mm	01-M4-R8-L20-ML20-SS4,5-BS7	<b>K651191</b>	A-5000-7557			TM4-8020-S	
<b>K651192</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L50-ML36-SS3,5-BS7	<b>K651192</b>	A-5000-7521			TM4-5052.5-S	
<b>K651193</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L100-ML86-SS7-BS7	<b>K651193</b>	A-5000-7522			TM4-50102-S	
<b>K651194</b>	M4	Straight Styli	Stylus M4 ruby ball Ø3,0mm	01-M4-R3-L20-ML14,5-BS7	<b>K651194</b>	A-5000-7549			TM4-3020-S	
<b>K651335</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L150-ML133-SS4,4-BS7	<b>K651193</b>	A-5000-7523			TM4-50152.5-S	
<b>K651340</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L200-ML188,5-SCFC4,5-BS7	<b>K651340</b>	A-5003-1075			TM4-60203-G	
<b>K651346</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L150-ML138,5-SCFC4,5-BS7	<b>K651346</b>	A-5003-1255			TM4-60153-G	
<b>K651356</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L100-ML88,5-SCFC4,5-BS7	<b>K651356</b>	A-5003-1358				
<b>K651403</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L100-ML86-SCER4-BS7	<b>K651403</b>	A-5000-3712			TM4-60103-C	
<b>K651407</b>	M4	Straight Styli	Stylus M4 ruby ball Ø4,0mm	01-M4-R4-L50-ML33,5-SCER3-BS7	<b>K651407</b>	A-5003-0233			TM4-4052-C	
<b>K651408</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L50-ML39-SCER4-BS7	<b>K651408</b>	A-5000-3709				
<b>K651463</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L50-ML38,5-SCFC4,5-BS7	<b>K651463</b>	A-5003-1436				
<b>K651464</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L300-ML288,5-SCFC4,5-BS7	<b>K651464</b>	A-5003-4179			TM4-60303-G	
<b>K651552</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L75-ML63,5-SCER4,5-BS7	<b>K651552</b>	A-5003-2764			TM4-6078-C	
<b>K651572</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L30-ML26-SS3-BS7	<b>K651572</b>	A-5000-6352			TM4-5032.5-S	
<b>K651587</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L100-ML83,5-SCER3,8-BS7	<b>K651587</b>	A-5000-9761			TM4-50102.5-C	
<b>K651588</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L50-ML33,5-SCER3,8-BS7	<b>K651588</b>	A-5003-0235			TM4-5052.5-C	
<b>K651589</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L75-ML58,5-SCER3,8-BS7	<b>K651589</b>	A-5003-0236			TM4-5077.5-C	



## Stylus Cross Reference Table M4

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651590</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L75-ML63,5-SCER4,5-BS7	<b>K651590</b>	A-5003-2764			TM4-6078-C	03969450
<b>K651591</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L10,5-ML5,5-SS3,5-BS7	<b>K651591</b>	A-5003-3550				
<b>K651592</b>	M4	Straight Styli	Stylus M4 ruby ball Ø3,0mm	01-M4-R3-L50-ML38,5-SWC2-BS7	<b>K651592</b>	A-5003-3680			TM4-3051.5	
<b>K651593</b>	M4	Straight Styli	Stylus M4 ruby ball Ø1,0mm	01-M4-R1-L20-ML10-SWC0,7-BS7	<b>K651593</b>	A-5003-4792			TM4-1020.5-DS.7	
<b>K651594</b>	M4	Straight Styli	Stylus M4 ruby ball Ø3,0mm	01-M4-R3-L20-ML8,5-SWC2-BS7	<b>K651594</b>	A-5003-4793			TM4-3021.5	
<b>K651595</b>	M4	Straight Styli	Stylus M4 ruby ball Ø4,0mm	01-M4-R4-L20-ML8,5-SWC2-BS7	<b>K651595</b>	A-5003-4794			TM4-4022	
<b>K651596</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L20-ML7,9-SWC2,5-BS7	<b>K651596</b>	A-5003-4795			TM4-5022.5	
<b>K651597</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L20-ML10,7-SWC2,5-BS7	<b>K651597</b>	A-5003-4796			TM4-6023	
<b>K651598</b>	M4	Straight Styli	Stylus M4 ruby ball Ø2,0mm	01-M4-R2-L50-ML40-SS1,5-BS7	<b>K651598</b>	A-5003-4797			TM4-2051	
<b>K651600</b>	M4	Straight Styli	Stylus M4 ruby ball Ø5,0mm	01-M4-R5-L50-ML37,9-SWC2,5-BS7	<b>K651600</b>	A-5003-4800			TM4-5052.5	
<b>K651601</b>	M4	Straight Styli	Stylus M4 ruby ball Ø6,0mm	01-M4-R6-L50-ML40,7-SWC2,5-BS7	<b>K651601</b>	A-5003-4801			TM4-6053	
<b>K651602</b>	M4	Straight Styli	Stylus M4 ruby ball Ø8,0mm	01-M4-R8-L75-ML75-SCER4,5-BS7	<b>K651602</b>	A-5003-4802			TM4-8079-C	
<b>K651603</b>	M4	Straight Styli	Stylus M4 silicon nitride ball Ø2,0mm	01-M4-SiN2-L19-ML9,2-SS1,4-BS7	<b>K651603</b>	A-5003-5728				
<b>K651604</b>	M4	Straight Styli	Stylus M4 silicon nitride ball Ø4,0mm	01-M4-SiN4-L18-ML13,7-SS3-BS7	<b>K651604</b>	A-5003-5729				
<b>K651605</b>	M4	Straight Styli	Stylus M4 silicon nitride ball Ø6,0mm	01-M4-SiNi6-L50-ML38,5-SCFC4,4-BS7	<b>K651605</b>	A-5003-5730				
<b>K651606</b>	M4	Straight Styli	Stylus M4 silicon nitride ball Ø6,0mm	01-M4-SiNi6-L100-ML88,5-SCFC4,4-BS7	<b>K651606</b>	A-5003-5731				
<b>K651607</b>	M4	Straight Styli	Stylus M4 zirconium oxide ball Ø2,0mm	01-M4-Zi2-L19-ML9,2-SS1,4-BS7	<b>K651607</b>	A-5003-5742				
<b>K651608</b>	M4	Straight Styli	Stylus M4 zirconium oxide ball Ø4,0mm	01-M4-Zi4-L18-ML13,7-SS3-BS7	<b>K651608</b>	A-5003-5743				
<b>K651609</b>	M4	Straight Styli	Stylus M4 zirconium oxide ball Ø6,0mm	01-M4-Zi6-L50-ML38,5-SCFC4,4-BS7	<b>K651609</b>	A-5003-5744				
<b>K651610</b>	M4	Straight Styli	Stylus M4 zirconium oxide ball Ø6,0mm	01-M4-Zi6-L100-ML88,5-SCFC4,4-BS7	<b>K651610</b>	A-5003-5745				
<b>K651599</b>	M4	Straight Styli	Stylus M4 ruby ball Ø4,0mm	01-M4-R4-L50-ML38,5-SWC2-BS7	<b>K651617</b>	A-5003-5676				
<b>K651637</b>	M4	Straight Styli	Stylus M4 carbide ball DB 5,0mm	01-M4-WC5-L54-ML49-SS3,9-BS7	<b>K651637</b>	A-5000-9685				
<b>K651737</b>	M4	Straight Styli	Stylus M4 ruby ball Ø8,0mm	01-M4-R8-L300-ML283,5-SCFC4-BS7	<b>K651737</b>					
<b>K651804</b>	M4	Straight Styli	Stylus M4 silicon nitride ball Ø3,0mm	01-M4-SiN3-L20-ML8,5-SWC2-BS7	<b>K651804</b>					
<b>K651805</b>	M4	Straight Styli	Stylus M4 silicon nitride ball Ø3,0mm	01-M4-SiN3-L50-ML38,5-SWC2-BS7	<b>K651805</b>					
<b>K651585</b>	M4	Straight Styli, High Precision	High Precision Stylus M4, ruby ball 1,0mm	01-M4-R1-GR3-L19,5-ML5-SS0,7-BS7	<b>K651585</b>	A-5003-4125				
<b>K651586</b>	M4	Straight Styli, High Precision	High Precision Stylus M4, ruby ball 2,0mm	01-M4-R2-GR3-L19-ML33-SS1,35-BS7	<b>K651586</b>	A-5003-4265				
<b>K651614</b>	M4	Straight Styli, High Precision	High Precision Stylus M4, ruby ball 4,0mm	01-M4-R4-GR3-L20-ML13,5-SCER3-BTi7	<b>K651614</b>	A-5003-4126				
<b>K651615</b>	M4	Straight Styli, High Precision	High Precision Stylus M4, ruby ball 4,0mm	01-M4-R4-GR3-L50-ML33-SCER3-BTi7	<b>K651615</b>	A-5003-6534				
<b>K651616</b>	M4	Straight Styli, High Precision	High Precision Stylus M4, ruby ball 8,0mm	01-M4-R8-GR3-L50-ML50-SCER4,5-BTi7	<b>K651616</b>	A-5003-6529				
<b>K651621</b>	M4	Straight Styli, High Precision	High Precision Stylus M4, ruby ball 8,0mm	01-M4-R8-GR3-L100-ML100-SCER4,5-BTi7	<b>K651621</b>	A-5003-6783				
<b>K651815</b>	M4	Straight Styli, High Precision	High Precision Stylus M4, ruby ball 5,0mm	01-M4-R5-GR3-L20-ML-SCER3,5-BTi7	<b>K651815</b>	A-5003-7406				

## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K650447</b>	M5	Adapters	Adapter M5-M3, stainless steel	07-M5-M3-L10-SS11	<b>K650447</b>	A-5555-0227	A-5003-0857	602030-0315-000	RM5-M3	M00-694-018-000
<b>K650448</b>	M5	Adapters	Adapter M5-M2 stainless steel	07-M5-M2-L10-SS11	<b>K650448</b>	A-5555-0226	A-5003-0858	602030-0215-000	RM5-M2	M00-1126-006-000
<b>K650960</b>	M5	Adapters	Adapter M5-M4 stainless steel	07-M5-M4-L10-BS11	<b>K650960</b>	A-5555-0228	A-5003-0856	602030-0318-000	RM5-M4	
<b>K651631</b>	M5	Adapters	Adapter M5-M4, stainless steel	07-M5-M4-L6,5-SS12	<b>K651631</b>		M-5000-9301			
<b>K650241</b>	M5	Diamond coated styli	Stylus M5 diamond coated ball 1,05mm	01-M5-DC1,05-L22-ML13/4,7-SWC1/0,8-BTi11	<b>K650241</b>					
<b>K650248</b>	M5	Diamond coated styli	Stylus M5 diamond coated ball 2,05mm	01-M5-DC2,05-L32,5-ML23,5-SWC1,5-BTi11	<b>K650248</b>					
<b>K650249</b>	M5	Diamond coated styli	Stylus M5 diamond coated ball 2,05mm	01-M5-DC2,05-L43-ML18-SWC4/1,5-BTi11	<b>K650249</b>				ATG-3033-DC	
<b>K650253</b>	M5	Diamond coated styli	Stylus M5 diamond coated ball 3,05mm	01-M5-DC3,05-L32-ML22-SWC2-BTi11	<b>K650253</b>					
<b>K650254</b>	M5	Diamond coated styli	Stylus M5 diamond coated ball 3,05mm	01-M5-DC3,05-L48,5-ML38,5-SWC2-BTi11	<b>K650254</b>					
<b>K650258</b>	M5	Diamond coated styli	Stylus M5 diamond coated ball 5,05mm	01-M5-DC5,05-L47,5-ML37,5-SWC3,5-BTi11	<b>K650258</b>					
<b>K650164</b>	M5	Disc Styli	Ball disk stylus ceramic M5 Ø20,0mm	05-M5-BDC20/1-L60-BAI7	<b>K650164</b>	A-5555-0123		602030-8091-000		
<b>K650170</b>	M5	Disc Styli	Ball disk stylus ceramic M5 Ø15,0mm	05-M5-BDC15/1-L40-BAI7	<b>K650170</b>	A-5555-0124		000000-1165-629	SDP-1540	
<b>K650356</b>	M5	Disc Styli	Ball disk stylus hardened steel M5 Ø15mm	05-M5-BDC15/1,5-L21,5-BAI10	<b>K650356</b>	A-5555-0122		600341-8095-000	SDP-1521.5	
<b>K650357</b>	M5	Disc Styli	Ball disk stylus hardened steel M5 Ø10mm	05-M5-BDC10/1,5-L21,5-BAI7	<b>K650357</b>	A-5555-0121		600341-8090-000	SDP-1021	
<b>K651465</b>	M5	Disc Styli	Disc stylus, hardened steel M5, Ø12,0mm	03-M5-DS12/3-L3-BS7	<b>K651465</b>	A-5003-5288				
<b>K651466</b>	M5	Disc Styli	Disc stylus, hardened steel M5, Ø35,0mm	03-M5-DS35/5-L4	<b>K651466</b>	A-5003-5290				
<b>K651541</b>	M5	Disc Styli	Disc stylus, hardened steel M5, Ø 21,0mm	03-M5-DS21/3-L3-BS10	<b>K651541</b>	A-5003-5289				
<b>K651542</b>	M5	Disc Styli	Disc stylus, hardened steel M5, Ø63,5mm	03-M5-DS63,5/5-L4-BS10	<b>K651542</b>	A-5003-5291				
<b>K650301</b>	M5	Extensions	Extension M5, stainless steel L 80,0mm	06-M5-L80-SS11-BS11	<b>K650301</b>	A-5555-0137		600341-0258-000	VM5-12.80-S	
<b>K650302</b>	M5	Extensions	Extension M5, stainless steel L 100,0mm	06-M5-L100-SS11-BS11	<b>K650302</b>	A-5003-0844		600341-0260-000	VM5-12.100-S	
<b>K650341</b>	M5	Extensions	Extension M5, stainless steel L 10,0mm	06-M5-L10-SS11-BS11	<b>K650341</b>	A-5555-0142		600341-0250-000	VM5-12.10-S	
<b>K650342</b>	M5	Extensions	Extension M5, stainless steel L 15,0mm	06-M5-L20-SS11-BS11	<b>K650342</b>	A-5555-0141		600341-0251-000	VM5-12.15-S	
<b>K650343</b>	M5	Extensions	Extension M5, stainless steel L 20,0mm	06-M5-L20-SS11-BS11	<b>K650343</b>	A-5555-0140	A-5003-0840	600341-0252-000	VM5-12.20-S	
<b>K650344</b>	M5	Extensions	Extension M5, stainless steel L 40,0mm	06-M5-L40-SS11-BS11	<b>K650344</b>	A-5555-0139		600341-0254-000	VM5-12.40-S	
<b>K650345</b>	M5	Extensions	Extension M5, stainless steel L 60,0mm	06-M5-L60-SS11-BS11	<b>K650345</b>	A-5555-0138		600341-0256-000	VM5-12.60-S	
<b>K651632</b>	M5	Extensions	Extension M5, stainless steel L 30,0mm	06-M5-L30-SS11	<b>K651632</b>	A-5003-5282				
<b>K651633</b>	M5	Extensions	Extension M5, stainless steel L 50,0mm	06-M5-L50-SS11	<b>K651633</b>	A-5003-5283				
<b>K651634</b>	M5	Extensions	Extension M5, aluminium L 50,0mm	06-M5-L50-SAI20	<b>K651634</b>	A-5003-5285				
<b>K656023</b>	M5	Extensions	Extension M5, carbon fibre L 40,0mm	06-M5-L40-SCFC11-BTi11	<b>K656023</b>	A-5555-0647		626107-1040-100	VM5-12.40-TX	M00-1125-019-000
<b>K656024</b>	M5	Extensions	Extension M5, carbon fibre L 50,0mm	06-M5-L50-SCFC11-BTi11	<b>K656024</b>	A-5555-0648		626107-1050-100	VM5-12.50-TX	M00-1125-023-000
<b>K656025</b>	M5	Extensions	Extension M5, carbon fibre L 60,0mm	06-M5-L60-SCFC11-BTi11	<b>K656025</b>	A-5555-0649		626107-1060-100	VM5-12.60-TX	M00-1125-017-000
<b>K656026</b>	M5	Extensions	Extension M5, carbon fibre L 70,0mm	06-M5-L70-SCFC11-BTi11	<b>K656026</b>	A-5555-0623		626107-1070-100	VM5-12.70-TX	
<b>K656027</b>	M5	Extensions	Extension M5, carbon fibre L 80,0mm	06-M5-L80-SCFC11-BTi11	<b>K656027</b>	A-5555-0650		626107-1080-100	VM5-12.80-TX	M00-1125-015-000
<b>K656028</b>	M5	Extensions	Extension M5, carbon fibre L 90,0mm	06-M5-L90-SCFC11-BTi11	<b>K656028</b>	A-5555-0651		626107-1090-100	VM5-12.90-TX	
<b>K656029</b>	M5	Extensions	Extension M5, carbon fibre L 100,0mm	06-M5-L100-SCFC11-BTi11	<b>K656029</b>	A-5555-0652		626107-1100-100	VM5-12.100-TX	M00-1125-016-000
<b>K656030</b>	M5	Extensions	Extension M5, carbon fibre L 120,0mm	06-M5-L120-SCFC11-BTi11	<b>K656030</b>	A-5555-0425		626107-1120-100	VM5-12.120-TX	M00-1125-004-000
<b>K656031</b>	M5	Extensions	Extension M5, carbon fibre L 150,0mm	06-M5-L150-SCFC11-BTi11	<b>K656031</b>	A-5555-0424		626107-1150-100	VM5-12.150-TX	M00-1125-011-000



## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K656032</b>	M5	Extensions	Extension M5, carbon fibre L 180,0mm	06-M5-L180-SCFC11-BTi11	<b>K656032</b>	A-5555-0653		626107-1180-100	VM5-12.180-TX	M00-1125-020-000
<b>K656033</b>	M5	Extensions	Extension M5, carbon fibre L 200,0mm	06-M5-L200-SCFC11-BTi11	<b>K656033</b>	A-5555-0654		626107-1200-100	VM5-12.200-TX	M00-1125-021-000
<b>K656034</b>	M5	Extensions	Extension M5, carbon fibre L 250,0mm	06-M5-L250-SCFC11-BTi11	<b>K656034</b>	A-5555-0655		626107-1250-100	VM5-12.250-TX	M00-1125-022-000
<b>K656035</b>	M5	Extensions	Extension M5, carbon fibre L 300,0mm	06-M5-L300-SCFC11-BTi11	<b>K656035</b>	A-5555-0642		626107-1300-100	VM5-12.300-TX	
<b>K656036</b>	M5	Extensions	Extension M5, carbon fibre L 400,0mm	06-M5-L400-SCFC11-BTi11	<b>K656036</b>	A-5555-0656		626107-1400-100	VM5-12.400-TX	
<b>K656037</b>	M5	Extensions	Extension M5, carbon fibre L 40,0mm	06-M5-L40-SCFC20-BTi20	<b>K656037</b>	A-5555-0620		626107-2040-100	VM5-20.40-TX	
<b>K656038</b>	M5	Extensions	Extension M5, carbon fibre L 50,0mm	06-M5-L50-SCFC20-BTi20	<b>K656038</b>	A-5555-0657		626107-2050-100	VM5-20.50-TX	
<b>K656039</b>	M5	Extensions	Extension M5, carbon fibre L 60,0mm	06-M5-L60-SCFC20-BTi20	<b>K656039</b>	A-5555-0658		626107-2060-100	VM5-20.60-TX	M00-694-038-000
<b>K656040</b>	M5	Extensions	Extension M5, carbon fibre L 80,0mm	06-M5-L80-SCFC20-BTi20	<b>K656040</b>	A-5555-0621		626107-2080-100	VM5-20.80-TX	
<b>K656041</b>	M5	Extensions	Extension M5, carbon fibre L 100,0mm	06-M5-L100-SCFC20-BTi20	<b>K656041</b>	A-5555-0659		626107-2100-100	VM5-20.100-TX	M00-694-041-000
<b>K656042</b>	M5	Extensions	Extension M5, carbon fibre L 120,0mm	06-M5-L120-SCFC20-BTi20	<b>K656042</b>	A-5555-0660		626107-2120-100	VM5-20.120-TX	
<b>K656043</b>	M5	Extensions	Extension M5, carbon fibre L 150,0mm	06-M5-L150-SCFC20-BTi20	<b>K656043</b>	A-5555-0661		626107-2150-100	VM5-20.150-TX	
<b>K656044</b>	M5	Extensions	Extension M5, carbon fibre L 180,0mm	06-M5-L180-SCFC20-BTi20	<b>K656044</b>	A-5555-0662		626107-2180-100	VM5-20.180-TX	
<b>K656045</b>	M5	Extensions	Extension M5, carbon fibre L 200,0mm	06-M5-L200-SCFC20-BTi20	<b>K656045</b>	A-5555-0663		626107-2200-100	VM5-20.200-TX	M00-694-042-000
<b>K656046</b>	M5	Extensions	Extension M5, carbon fibre L 250,0mm	06-M5-L250-SCFC20-BTi20	<b>K656046</b>	A-5555-0427		626107-2250-100	VM5-20.250-TX	
<b>K656047</b>	M5	Extensions	Extension M5, carbon fibre L 300,0mm	06-M5-L300-SCFC20-BTi20	<b>K656047</b>	A-5555-0664		626107-2300-100	VM5-20-300-TX	M00-694-043-000
<b>K656048</b>	M5	Extensions	Extension M5, carbon fibre L 400,0mm	06-M5-L400-SCFC20-BTi20	<b>K656048</b>	A-5555-0665		626107-2400-100	VM5-20-400-TX	M00-694-164-000
<b>K656049</b>	M5	Extensions	Extension M5, carbon fibre L 500,0mm	06-M5-L500-SCFC20-BTi20	<b>K656049</b>	A-5555-0667		626107-2500-100	VM5-20.500-TX	M00-694-165-000
<b>K656050</b>	M5	Extensions	Extension M5, carbon fibre L 600,0mm	06-M5-L600-SCFC20-BTi20	<b>K656050</b>	A-5555-0668		626107-2600-100	VM5-20.600-TX	
<b>K650047</b>	M5	Holders	Swivel joint piezo M5	09-M5-L25-BTi18	<b>K650047</b>			600341-8356-000		
<b>K650049</b>	M5	Holders	Swivel connector M5	09-M5-L30-BTi18	<b>K650049</b>	A-5555-0099		602030-9095-000	RAP-1830	M00-1126-003-000
<b>K650051</b>	M5	Holders	Cubical stylus holder M5, titanium	10-5-M5-L20-Bti	<b>K650051</b>	A-5003-5681	A-5555-0190	600341-8002-000	WM5-20-T	060-684,044-000
<b>K650052</b>	M5	Holders	Cubical stylus holder M5, titanium	10-5-M5-L15-Bti	<b>K650052</b>	A-5003-5680	A-5555-0189	600341-8361-000	WM5-15-T	060-694,016-000
<b>K650122</b>	M5	Holders	5-way stylus holder M5	10-5-M5-L10-BS11-BH1,5	<b>K650122</b>			600342-8368-000		
<b>K650128</b>	M5	Holders	5-way stylus holder M5	10-5-M5-L10-BS11-BH1	<b>K650128</b>	A-5555-0105		600341-8367-000	PH-100	
<b>K650361</b>	M5	Holders	Stylus holder M5	10-1-M5-L45-ML27,5-SS6-BS11	<b>K650361</b>	A-5555-0104		600341-8160-000	PH-10	
<b>K650497</b>	M5	Holders	Multi-way stylus holder M5 aluminium	10-L 140,0mm, only for measuring probe head-BAL	<b>K650497</b>			600342-8060-000		
<b>K650498</b>	M5	Holders	5-way stylus holder M5	10-M5-L20-BTi	<b>K650498</b>	A-5555-0192	A-5003-0855	602030-8362-000	WM5-20	
<b>K650499</b>	M5	Holders	Cubical stylus holder M5 aluminium	10-5-M5-L15-BAL	<b>K650499</b>	A-5555-0191		602030-8363-000	WM5-15	M00-114-101-000
<b>K650627</b>	M5	Holders	Swivel joint piezo M5 titanium L 25,0mm	09-M5-L25-BTi11	<b>K650627</b>			602030-8358-000		
<b>K650976</b>	M5	Holders	Swivel connector M5 titanium L 26,7mm	09-M5-L26,7-STi18-BS18	<b>K650976</b>					
<b>K650977</b>	M5	Holders	Swivel connector M5 titanium L 23,0mm	09-M5-L23-STi11-BS11	<b>K650977</b>					
<b>K651056</b>	M5	Holders	4-way stylus holder M2, rotatable	10-4-M2-L7,5-ML6-BS7	<b>K651056</b>	A-5000-8395			KM2-7-3	
<b>K651456</b>	M5	Holders	Cubical stylus holder M5, titanium	10-5-M5-M2-L15-Bti	<b>K651456</b>	A-5003-5683				
<b>K651457</b>	M5	Holders	Cubical stylus holder M5, titanium	10-5-M5-M2-L20-Bti	<b>K651457</b>	A-5003-5684				
<b>K651467</b>	M5	Hollow Sphere Styli	Hollow sphere stylus ceramic M5, Ø16,0mm	13-M5-CER16-L19,5-ML11,5-SS10-BS10	<b>K651467</b>	A-5003-5275				
<b>K651468</b>	M5	Hollow Sphere Styli	Hollow sphere stylus ceramic M5, Ø22,0mm	13-M5-CER22-L9,5-ML11,5-SS10-BS10	<b>K651468</b>	A-5003-5276				

## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651469</b>	M5	Hollow Sphere Styli	Hollow sphere stylus ceramic M5, Ø30,0mm	13-M5-CER30-L24,5-ML9,5-SS10-BS30	<b>K651469</b>	A-5003-5277				
<b>K650053</b>	M5	Joints	Swivel joint M5 titanium L 36,0mm	09-M5-L36-BTi18	<b>K650053</b>	A-5555-0219		600342-9003-000	JM5-20-T	
<b>K650054</b>	M5	Joints	Swivel joint M5 titanium L 30,0mm	09-M5-L30-BTi11	<b>K650054</b>	A-5555-0218		600342-9002-000	JM5-15-T	M00-1126-005-000
<b>K651449</b>	M5	Joints	Joint M5, Titanium	09-M5-L36,5-BTi	<b>K651449</b>	A-5003-5278				
<b>K651450</b>	M5	Joints	Joint M5, Titanium	09-M5-L46-BTi	<b>K651450</b>	A-5003-5279				
<b>K650041</b>	M5	Screws for cube	Screw for cubical stylus holder M5	12-M5-L26-BS8,5	<b>K650041</b>	A-5555-0224		600341-0220-000	SM5-20	
<b>K650070</b>	M5	Screws for cube	Screw for Cubical stylus holder M5	12-M5-L21-BS8,5	<b>K650070</b>	A-5555-0225		600341-0221-000	SM5-15	
<b>K650321</b>	M5	Screws for cube	Stylus for multi-way M5 ruby ball Ø2,5mm	01-M5-R2,5-L32,75-ML23,75-SWC1,5-BS11	<b>K650321</b>	A-5555-0081		600342-8203-000	MSA-2534	
<b>K651617</b>	M5	Screws for cube	Screw for cubical stylus holder M5	12-M5-L34-BS11	<b>K651447</b>	A-5003-4686			RJM3-17	M00-1125-002-000
<b>K651618</b>	M5	Screws for cube	Screw for cubical stylus holder M5	12-M5-L28-BS11	<b>K651618</b>	A-5003-5677				
<b>K651619</b>	M5	Screws for cube	Screw for cubical stylus holder M5	12-M5-L33-BS11	<b>K651619</b>	A-5003-5678				
<b>K651620</b>	M5	Screws for cube	Screw for cubical stylus holder M5	12-M5-L29-BS11	<b>K651620</b>	A-5003-5679				
<b>K650295</b>	M5	Solid diamond styli	Stylus M5 solid diamond ball Ø0,3mm	01-M5-SD0,3-L21,7-ML12,65-SWC0,2-BS11	<b>K650295</b>					
<b>K650296</b>	M5	Solid diamond styli	Stylus M5 solid diamond ball Ø0,6mm	01-M5-SD0,6-L21,8-ML12,75-SWC0,3-BS11	<b>K650296</b>					
<b>K650297</b>	M5	Solid diamond styli	Stylus M5 solid diamond ball Ø1,0mm	01-M5-SD1-L22-ML13-SWC0,8-BS11	<b>K650297</b>				AFG-1022.5-DS.8-D	
<b>K650298</b>	M5	Solid diamond styli	Stylus M5 solid diamond ball Ø2,0mm	01-M5-SD2-L32,5-ML23,5-SWC1,5-BS11	<b>K650298</b>					
<b>K650299</b>	M5	Solid diamond styli	Stylus M5 solid diamond ball Ø3,0mm	01-M5-SD3-L32-ML22-SWC2-BS11	<b>K650299</b>					
<b>K650069</b>	M5	Star-Styli	Multi-way stylus M5 ruby ball Ø5,0mm	04-M5-R5-L75-ML75-SWC3,5-BAI19	<b>K650069</b>	A-5555-0215		600331-8093-000	STR-500	
<b>K650111</b>	M5	Star-Styli	4-way cube stylus M5 ruby ball Ø2,5mm	04-M5-R2,5-L42,5-ML13,75-SWC01,8-BTi	<b>K650111</b>	A-5555-0072		602030-9027-000	WMS-2545	
<b>K650112</b>	M5	Star-Styli	4-way cube stylus M5 ruby ball Ø2,0mm	04-M5-R2-L43-ML14-SWC1,5-BTi	<b>K650112</b>	A-5555-0071		602030-9026-000	WMS-2045	
<b>K650113</b>	M5	Star-Styli	4-way cube stylus M5 ruby ball Ø1,5mm	04-M5-R1,5-L43,5-ML14,25-SWC1,1-BTi	<b>K650113</b>	A-5555-0070		602030-9025-000	WMS-1545	
<b>K650114</b>	M5	Star-Styli	4-way cube stylus M5 ruby ball Ø1,0mm	04-M5-R1-L44-ML14,5-SWC0,7-BTi	<b>K650114</b>	A-5555-0069		602030-9024-000	WMS-1045	
<b>K650555</b>	M5	Star-Styli	4-way cube stylus M5 ruby ball Ø3,5mm	04-M5-R3,5-L41,5-ML13,25-SWC2,2-BTi	<b>K650555</b>	A-5555-0073		602030-9028-000	WMS-3545	
<b>K650072</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L96-ML83-SWC6-BTi11	<b>K650072</b>	A-5555-0033		602030-9017-000	ATG-80100	
<b>K650073</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L71-ML58-SWC6-BTi11	<b>K650073</b>	A-5555-0032		602030-9016-000	ATG-8075	
<b>K650074</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L72,5-ML62,5-SWC6-BTi11	<b>K650074</b>	A-5555-0026		602030-9015-000	ATG-5075	M00-1121-053-000
<b>K650076</b>	M5	Straight Styli	Stylus M5 ruby ball Ø9,0mm	01-M5-R9-L60-ML46-SWC6-BTi11	<b>K650076</b>	A-5555-0036		600342-8028-000	ATG-9064.5	
<b>K650078</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L59,5-ML46,5-SWC6-BTi11	<b>K650078</b>	A-5555-0029		600342-8023-000	ATG-8063.5	
<b>K650079</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L60,5-ML47,5-SWC6-BTi11	<b>K650079</b>	A-5555-0038		600342-8029-000	ATG-10065.5	
<b>K650080</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L56,5-ML46,5-SWC26-BTi11	<b>K650080</b>	A-5555-0021		600342-8021-000	ATG-3058	M00-1121-051-000
<b>K650082</b>	M5	Straight Styli	Stylus M5 ruby ball Ø7,0mm	01-M5-R7-L51,5-ML41,5-SWC6-BTi11	<b>K650082</b>	A-5555-0028		600342-8027-000	ATG-7055	
<b>K650083</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L51-ML41-SWC6-BTi11	<b>K650083</b>	A-5555-0027		600342-8026-000	ATG-6054	
<b>K650084</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L47,5-ML37,5-SWC6-BTi11	<b>K650084</b>	A-5555-0024		602030-9013-000	ATG-5050	
<b>K650085</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L62-ML52-SWC6-BTi11	<b>K650085</b>	A-5555-0023		602030-9012-000	ATG-4064	
<b>K650086</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L50,5-ML40,5-SWC6-BTi11	<b>K650086</b>	A-5555-0025		600342-8022-000	ATG-5053	
<b>K650087</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L48,5-ML38,5-SWC6-BTi11	<b>K650087</b>	A-5555-0020		602030-9011-000	ATG-3050	M00-1121-050-000
<b>K650088</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L31,5-ML21,5-SWC6-BTi11	<b>K650088</b>	A-5555-0022		600342-8025-000	ATG-4033.5	
<b>K650089</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L32-ML22-SWC6-BTi11	<b>K650089</b>	A-5555-0019		600342-8020-000	ATG-3033.5	TH M5 030 11 033
<b>K650090</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L23,5-ML13,5-SWC6-BTi11	<b>K650090</b>	A-5555-0018		602030-9010-000	ATG-3025	M00-1121-048-000

## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K650106</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L1136-ML100-SWC6-BTi11	<b>K650106</b>	A-5555-0040		602030-9018-000	ATG-100118	
<b>K650107</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L110,5-ML97,5-SWC6-BTi11	<b>K650107</b>	A-5555-0034		600342-8024-000	ATG-80114.5	
<b>K650162</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L23,5-ML13,5-SCFC2-BTi11	<b>K650162</b>	A-5555-1916		626105-0300-025	ATG-3025-TX	
<b>K650163</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L32-ML22-SCFC2-BTi11	<b>K650163</b>	A-5555-1847		626105-0300-033	ATG-3033-TX	
<b>K650165</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L48,5-ML38,5-SCFC2-BTi11	<b>K650165</b>	A-5555-0730		626105-0300-050	ATG-3050-TX	
<b>K650166</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L56,5-ML46,5-SCFC2-BTi11	<b>K650166</b>	A-5555-3806		626105-0300-058	ATG-3058-TX	
<b>K650171</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L31,5-ML21,94-SCFC2-BTi11	<b>K650171</b>	A-5555-1917		626105-0400-033	ATG-4033-TX	
<b>K650173</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L62-ML52,44-SCFC2-BTi11	<b>K650173</b>	A-5555-0731		626105-0400-064	ATG-4064-TX	
<b>K650174</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L50,5-ML51-SCFC3,5-BTi11	<b>K650174</b>	A-5555-2013				
<b>K650176</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L47,5-ML38-SCFC3,5-BTi11	<b>K650176</b>	A-5555-0732		626105-0510-050	ATG-5050-TX	
<b>K650177</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L72,5-ML63-SCFC3,5-BTi11	<b>K650177</b>	A-5555-0735		626105-0510-075	ATG-5075-TX	
<b>K650178</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L51-ML42-SCFC3,5-BTi11	<b>K650178</b>	A-5555-0733		626105-0610-054	ATG-6054-TX	
<b>K650181</b>	M5	Straight Styli	Stylus M5 ruby ball Ø7,0mm	01-M5-R7-L51,5-ML43-SCFC3,5-BTi11	<b>K650181</b>	A-5555-0734		626105-0710-055	ATG-7055-TX	
<b>K650183</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L59,5-ML48,38-SCFC6-BTi11	<b>K650183</b>	A-5555-3807		626105-0820-063	ATG-8063-TX	
<b>K650184</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L71-ML59,88-SCFC6-BTi11	<b>K650184</b>	A-5555-3997		626105-0820-075	ATG-8075-TX	
<b>K650185</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L96-ML84,88-SCFC6-BTi11	<b>K650185</b>	A-5555-1918		626105-0820-100	ATG-80100-TX	
<b>K650191</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L110,5-ML99,38-SCFC6-BTi11	<b>K650191</b>	A-5555-3808		626105-0820-114	ATG-80114-TX	
<b>K650193</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L196-ML184,88-SCFC6-BTi11	<b>K650193</b>	A-5555-1112		626105-0820-200	ATG-80200-TX	
<b>K650194</b>	M5	Straight Styli	Stylus M5 ruby ball Ø9,0mm	01-M5-R9-L60-ML50,57-SCFC6-BTi11	<b>K650194</b>	A-5555-3809				
<b>K650195</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L60,5-ML53,13-SCFC6-BTi11	<b>K650195</b>	A-5555-1027		626105-1020-065	ATG-10065-TX	
<b>K650196</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L113-ML105,63-SCFC6-BTi11	<b>K650196</b>	A-5555-3998		626105-1020-118	ATG-100118-TX	
<b>K650197</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L145-ML137,63-SCFC6-BTi11	<b>K650197</b>	A-5555-0643		626105-1020-150	ATG-100150-TX	
<b>K650198</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L195-ML187,63-SCFC6-BTi11	<b>K650198</b>	A-5555-0644		626105-1020-200	ATG-100200-TX	
<b>K650646</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,8mm	01-M5-R0,8-L31,6-ML11,6/4,4-SWC4/1-BTi11	<b>K650646</b>	A-5555-0052		602030-8060-000	AQG-0832	
<b>K650647</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,0mm	01-M5-R1-L31,5-ML11,5/4,5-SWC1/0,2-BTi11	<b>K650647</b>	A-5555-0053		602030-8061-000	AQG-1032	
<b>K650648</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,35mm	01-M5-R1,35-L31,325-ML11,325-SWC4/1-BTi11	<b>K650648</b>	A-5555-0054		602030-8062-000	AQG-1432	
<b>K650649</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,35mm	01-M5-R1,35-L43,325-ML18,325-SWC4/1-BTi11	<b>K650649</b>	A-5555-0055		602030-8063-000	ARG-1444	
<b>K650650</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,5mm	01-M5-R1,5-L31,25-ML11,254-SWC4/1-BTi11	<b>K650650</b>	A-5555-0056		602030-8064-000	AQG-1532	
<b>K650651</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,5mm	01-M5-R1,5-L43,25-ML18,25-SWC4/1-BTi11	<b>K650651</b>	A-5555-0057		602030-8065-000	ARG-1544	M00-1121-041-000
<b>K650652</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L31-ML11-SWC4/1,5-BTi11	<b>K650652</b>	A-5555-0058		602030-8066-000	AQG-2032	
<b>K650653</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L42,75-ML17,5-SWC4/1,5-BTi11	<b>K650653</b>	A-5555-0062		602030-8070-000	ARG-2544	
<b>K650658</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L43-ML18-SWC4/1,5-BTi11	<b>K650658</b>	A-5555-0059		602030-8067-000	ARG-2044	
<b>K650659</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L57-ML32-SWC4/1,5-BTi11	<b>K650659</b>	A-5555-0060		602030-8068-000	ARG-2058	M00-1121-042-000
<b>K650660</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L30,75-ML10,75-SWC4/1,5-BTi11	<b>K650660</b>	A-5555-0061		602030-8069-000	AQG-2532	
<b>K650661</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L56,75-ML31,25-SWC4/1,5-BTi11	<b>K650661</b>	A-5555-0063		602030-8071-000	ARG-2558	
<b>K650685</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,5mm	01-M5-R1,5-L32,25-ML23,25-SWC1-BTi11	<b>K650685</b>	A-5555-0329		626115-0150-033		
<b>K650686</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L32,5-ML23,5-SWC1,5-BTi11	<b>K650686</b>	A-5555-9325		626115-0200-034		
<b>K650687</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,8mm	01-M5-R0,8-L21,9-ML12,9-SWC1/0,6-BS11	<b>K650687</b>	A-5555-1844		626115-0080-022		
<b>K650688</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,35mm	01-M5-R1,35-L32,225-ML23,225-SWC1-BTi11	<b>K650688</b>	A-5555-0799		626115-0140-033		
<b>K650689</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,0mm	01-M5-R1-L22-ML22-SWC1/0,8-BS11	<b>K650689</b>	A-5555-1843		626115-0100-022		
<b>K650690</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L32,75-ML23,75-SWC1,5-BTi11	<b>K650690</b>	A-5555-0686		626115-0250-034		

## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K650691</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,3mm	01-M5-R0,3-L21,65-ML12,65-SWC1/0,2-BS11	<b>K650691</b>	A-5555-0331		626115-0030-022		
<b>K650692</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,5mm	01-M5-R0,5-L21,75-ML12,75-SWC1/0,3-BS11	<b>K650692</b>	A-5555-1157		626115-0050-022		
<b>K650693</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,6mm	01-M5-R0,6-L21,8-ML12,8-SWC1/0,4-BS11	<b>K650693</b>	A-5555-1842		626115-0060-022		
<b>K651470</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,3mm	01-M5-R0,3-L20-ML5/3-SWC0,7-BTi10	<b>K651470</b>	A-5003-5201			AFG-0320-R	
<b>K651471</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,5mm	01-M5-R0,5-L20-ML5/4-SWC0,7-BTi10	<b>K651471</b>	A-5003-5202		626115-0050-020	AFG-0520-R	
<b>K651472</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,7mm	01-M5-R0,7-L20-ML5-SWC0,5-BTi10	<b>K651472</b>	A-5003-5203				
<b>K651473</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,0mm	01-M5-R1-L20-ML5-SWC0,7-BTi10	<b>K651473</b>	A-5003-5204			AFG-1020-DS.7	
<b>K651474</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,5mm	01-M5-R1,5-L20-ML11-SWC1-BTi10	<b>K651474</b>	A-5003-5205		000000-1776-935	AFG-1520	
<b>K651475</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L20-ML11-SWC1-BTi10	<b>K651475</b>	A-5003-5206			AFG-2021	
<b>K651476</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L20-ML11-SWC1,5-BTi10	<b>K651476</b>	A-5003-5207			AFG-2521.25	
<b>K651477</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L20-ML11-SWC2-BTi10	<b>K651477</b>	A-5003-5208			ATG-3021.5	
<b>K651478</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L20-ML11-SWC2-BTi10	<b>K651478</b>	A-5003-5209			ATG-4022	
<b>K651479</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L20-ML11-SWC3-BTi10	<b>K651479</b>	A-5003-5210			ATG-5022.5	
<b>K651480</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,3mm	01-M5-R0,3-L30-MI5/3-SWC0,7-BTi10	<b>K651480</b>	A-5003-5211			AFG-0330-03	
<b>K651481</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,5mm	01-M5-R0,5-L30-ML5/4-SWC0,7-BTi10	<b>K651481</b>	A-5003-5212			AFG-0530-04	
<b>K651482</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,7mm	01-M5-R0,7-L30-ML5-SWC0,5-BTi10	<b>K651482</b>	A-5003-5213			AFG-0730-05	
<b>K651483</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,0mm	01-M5-R1-L30-ML5-SWC0,7-BS10	<b>K651483</b>	A-5003-5214			AFG-1030-06	
<b>K651484</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,5mm	01-M5-R1,5-L30-ML12-SWC1-BTi10	<b>K651484</b>	A-5003-5215			AFG-1530.75-12	
<b>K651485</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L30-ML21-SWC1-BTi10	<b>K651485</b>	A-5003-5216		626120-0148-000	AFG-2031-DS1	
<b>K651486</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L30-ML21-SWC1,5-BTi10	<b>K651486</b>	A-5003-5217		000000-1776-948	AFG-2531.25	
<b>K651487</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L30-ML21-SWC2-BTi10	<b>K651487</b>	A-5003-5218		000000-1776-949	ATG-3031.5	
<b>K651488</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L30-ML21,9-SWC2-BTi10	<b>K651488</b>	A-5003-5219			ATG-4032	
<b>K651489</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L30-ML21,5-SWC3-BTi10	<b>K651489</b>	A-5003-5220			ATG-5032.5	
<b>K651490</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L40-ML31-SWC1-BTi10	<b>K651490</b>	A-5003-5222		626120-0062-000	AFG-2041	
<b>K651491</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L40-ML31-SWC1,5-BTi10	<b>K651491</b>	A-5003-5223		000000-1776-952	AFG-2541.25-T	
<b>K651492</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,3mm	01-M5-R0,3-L50-ML5/4-SWC0,7-BTi10	<b>K651492</b>	A-5003-5225			AFG-0350-03	
<b>K651493</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,5mm	01-M5-R0,5-L50-ML5/3-SWC0,7-BTi10	<b>K651493</b>	A-5003-5226			AFG-0550-04	
<b>K651494</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,7mm	01-M5-R0,7-L50-ML5-SWC0,5-BTi10	<b>K651494</b>	A-5003-5227			AFG-0750-05	
<b>K651495</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,0mm	01-M5-R1-L50-ML5-SWC0,7-BTi10	<b>K651495</b>	A-5003-5228			AFG-1050.5	
<b>K651496</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,5mm	01-M5-R1,5-L50-ML5-SWC1-BTi10	<b>K651496</b>	A-5003-5229			AFG-1550.75	
<b>K651497</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L50-ML41-SWC1-BTi10	<b>K651497</b>	A-5003-5230			AFG-2051-DS1	
<b>K651498</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,0mm	01-M5-R2-L50-ML5-SWC1-BTi10	<b>K651498</b>	A-5003-5231			AFG-2051	
<b>K651499</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L50-ML41-SWC2-BTi10	<b>K651499</b>	A-5003-5232			AFG-2551.25-1	
<b>K651500</b>	M5	Straight Styli	Stylus M5 ruby ball Ø2,5mm	01-M5-R2,5-L50-MI5-SWC1,5-BTi10	<b>K651500</b>	A-5003-5233			AFG-2551.25-DS2	
<b>K651501</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L50-ML41-SWC2-BTi10	<b>K651501</b>	A-5003-5234		000000-1776-954	ATG-3051.5	
<b>K651502</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L50-ML41,5-SWC3-BTi10	<b>K651502</b>	A-5003-5236			ATG-5052.5	
<b>K651503</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L50-MI39,5-SCFC4-BTi10	<b>K651503</b>	A-5003-5237			ATG-6053-G	
<b>K651504</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L50-ML39,5-SCFC6-BTi10	<b>K651504</b>	A-5003-5238			ATG-8054-G	
<b>K651505</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L50-ML44,5-SCFC6-BTi10	<b>K651505</b>	A-5003-5239			ATG-10055-G	
<b>K651506</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,3mm	01-M5-R0,3-L75-MI5/3-SWC0,7-BTi10	<b>K651506</b>	A-5003-5240			AFG-0375-03	
<b>K651507</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,5mm	01-M5-R0,5-L75-ML5/4-SWC0,7-BTi10	<b>K651507</b>	A-5003-5241			AFG-0575-04	

## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651508</b>	M5	Straight Styli	Stylus M5 ruby ball Ø0,7mm	01-M5-R0,7-L75-ML5-SWC0,5-BTi10	<b>K651508</b>	A-5003-5242			AFG-0775	
<b>K651509</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,0mm	01-M5-R1-L75-ML5-SWC0,7-BTi10	<b>K651509</b>	A-5003-5243			AFG-1075.5-05	
<b>K651510</b>	M5	Straight Styli	Stylus M5 ruby ball Ø1,5mm	01-M5-R1,5-L75-ML5-SWC1-BTi10	<b>K651510</b>	A-5003-5244			AFG-1575.75-05	
<b>K651511</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L75-ML66-SWC3-BTi10	<b>K651511</b>	A-5003-5248			ATG-4077-DS3	
<b>K651512</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L75-ML65,1-SCFC4-BTi10	<b>K651512</b>	A-5003-5250			ATG-6078-G	
<b>K651513</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L75-ML64,5-SCFC6-BTi10	<b>K651513</b>	A-5003-5251			ATG-8079-G	
<b>K651514</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L75-ML69,5-SCFC6-BTi10	<b>K651514</b>	A-5003-5252			ATG-10080-G	
<b>K651515</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L100-ML20-SWC2-BTi10	<b>K651515</b>	A-5003-5253				
<b>K651516</b>	M5	Straight Styli	Stylus M5 ruby ball Ø3,0mm	01-M5-R3-L100-ML55-SWC1,5-BTi10	<b>K651516</b>	A-5003-5254				
<b>K651517</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L100-ML30,5-SWC3-BTi10	<b>K651517</b>	A-5003-5255				
<b>K651518</b>	M5	Straight Styli	Stylus M5 ruby ball Ø4,0mm	01-M5-R4-L100-ML50-SWC3-BTi10	<b>K651518</b>	A-5003-5256				
<b>K651519</b>	M5	Straight Styli	Stylus M5 ruby ball Ø5,0mm	01-M5-R5-L100-ML50-SWC3-BTi10	<b>K651519</b>	A-5003-5257				
<b>K651520</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L100-ML58,9-SCFC4-BTi10	<b>K651520</b>	A-5003-5259				
<b>K651521</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L100-ML90,1-SCFC4-BTi10	<b>K651521</b>	A-5003-5260				
<b>K651522</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L100-ML50-SCFC6-BTi10	<b>K651522</b>	A-5003-5261				
<b>K651523</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L100-ML89,5-SCFC6-BTi10	<b>K651523</b>	A-5003-5262				
<b>K651524</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L100-ML95,5-SCFC6-BTi10	<b>K651524</b>	A-5003-5263				
<b>K651525</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L100-ML94,5-SCFC6-BTi10	<b>K651525</b>	A-5003-5264				
<b>K651526</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0 mm	01-M5-R6-L150-ML137-SCFC4-BTi11	<b>K651526</b>	A-5003-5265			ATG-60153-G	
<b>K651527</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-ML150-ML144,5-SCFC6-BTi10	<b>K651527</b>	A-5003-5267			ATG-100155-G	
<b>K651528</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L200-ML187-SCFC4-BTi10	<b>K651528</b>	A-5003-5268			ATG-60103-G	
<b>K651529</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0 mm	01-M5-R8-L200-ML180-SCFC6-BTi11	<b>K651529</b>	A-5003-5269			ATG-80204-G	
<b>K651530</b>	M5	Straight Styli	Stylus M5 ruby ball Ø6,0mm	01-M5-R6-L300-ML287-SCFC4,5-BTi10	<b>K651530</b>	A-5003-5271			ATG-60303-G	
<b>K651531</b>	M5	Straight Styli	Stylus M5 ruby ball Ø8,0mm	01-M5-R8-L300-ML280-SCFC6-BTi10	<b>K651531</b>	A-5003-5272			ATG-80304-G	
<b>K651532</b>	M5	Straight Styli	Stylus M5 ruby ball Ø10,0mm	01-M5-R10-L300-ML294-SCFC6-BTi10	<b>K651532</b>	A-5003-5273				
<b>K651533</b>	M5	Straight Styli	Stylus M5 silicon nitride ball Ø2,0mm	01-M5-SiNi2-L20-ML11-SWC1-BTi10	<b>K651533</b>	A-5003-5732	A-5003-5732			
<b>K651534</b>	M5	Straight Styli	Stylus M5 silicon nitride ball Ø4,0mm	01-M5-SiNi4-L20-ML11,9-SWC2-BTi10	<b>K651534</b>	A-5003-5733	A-5003-5733			
<b>K651535</b>	M5	Straight Styli	Stylus M5 silicon nitride ball Ø6,0mm	01-M5-SiNi6-L50-ML39,5-SCFC4,3-B510	<b>K651535</b>	A-5003-5734	A-5003-5734			
<b>K651536</b>	M5	Straight Styli	Stylus M5 silicon nitride ball Ø6,0mm	01-M5-SiNi6-L100-ML56,9-SCFC4-BTi10	<b>K651536</b>	A-5003-5735	A-5003-5735			
<b>K651537</b>	M5	Straight Styli	Stylus M5 zirconium oxide ball Ø2,0mm	01-M5-Zi2-L20-ML11-SWC1-BTi10	<b>K651537</b>	A-5003-5746	A-5003-5746			
<b>K651538</b>	M5	Straight Styli	Stylus M5 zirconium oxide ball Ø4,0mm	01-M5-Zi4-L20-ML11,9-SWC2-BTi10	<b>K651538</b>	A-5003-5747	A-5003-5747			
<b>K651539</b>	M5	Straight Styli	Stylus M5 zirconium oxide ball Ø6,0mm	01-M5-Zi6-L50-ML39,5-SCFC4-BTi10	<b>K651539</b>	A-5003-5748	A-5003-5748			
<b>K651540</b>	M5	Straight Styli	Stylus M5 zirconium oxide ball Ø6,0mm	01-M5-Zi6-L100-ML58,9-SCFC4-BTi10	<b>K651540</b>	A-5003-5749	A-5003-5749			
<b>K651622</b>	M5	Straight Styli	Stylus M5 ruby ball ø5,0mm	01-M5-R5-L100-ML91,5-SWC3-BTi10	<b>K651622</b>					
<b>K651623</b>	M5	Straight Styli	Stylus M5 ruby ball ø3,0mm	01-M5-R3-L40-ML31-SWC2-BTi10	<b>K651623</b>					
<b>K651705</b>	M5	Straight Styli	Stylus M5 ruby ball ø5,0mm	01-M5-R5-L100-ML57,3-SCFC3-BTi10	<b>K651705</b>					
<b>K651706</b>	M5	Straight Styli	Stylus M5 ruby ball ø4,0mm	01-M5-R4-L100-ML50-SCFC3-BTi10	<b>K651706</b>					
<b>K651707</b>	M5	Straight Styli	Stylus M5 ruby ball ø5,0mm	01-M5-R5-L20-ML11,5-SCFC3-BTi10	<b>K651707</b>					



## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K651708</b>	M5	Straight Styli	Stylus M5 ruby ball ø5,0mm	01-M5-R5-L30-ML21,5-SCFC3-BTi10	<b>K651708</b>					
<b>K650192</b>	M5	Straight Styli	Stylus M5 ruby ball ø8,0mm	01-M5-R8-L146-ML134,88-SCFC6-BTi11	<b>K651709</b>					
<b>K651710</b>	M5	Straight Styli	Stylus M5 ruby ball ø5,0mm	01-M5-R5-L100-ML91,5-SCFC3-BTi10	<b>K651710</b>					
<b>K651711</b>	M5	Straight Styli	Stylus M5 ruby ball ø2,5mm	01-M5-R2,5-L50-ML41-SCFC2-BTi10	<b>K651711</b>					
<b>K651712</b>	M5	Straight Styli	Stylus M5 ruby ball ø3,0mm	01-M5-R3-L20-ML11-SCFC2-BTi10	<b>K651712</b>					
<b>K651713</b>	M5	Straight Styli	Stylus M5 ruby ball ø3,0mm	01-M5-R3-L30-ML21-SCFC2-BTi10	<b>K651713</b>					
<b>K651714</b>	M5	Straight Styli	Stylus M5 ruby ball ø3,0mm	01-M5-R3-L40-ML31-SCFC2-BTi10	<b>K651714</b>					
<b>K651715</b>	M5	Straight Styli	Stylus M5 ruby ball ø3,0mm	01-M5-R3-L50-ML41-SCFC2-BTi10	<b>K651715</b>					
<b>K651716</b>	M5	Straight Styli	Stylus M5 ruby ball ø4,0mm	01-M5-R4-L20-ML11,4-SCFC2-BTi10	<b>K651716</b>					
<b>K651717</b>	M5	Straight Styli	Stylus M5 ruby ball ø4,0mm	01-M5-R4-L30-ML21,4-SCFC2-BTi10	<b>K651717</b>					
<b>K651718</b>	M5	Straight Styli	Stylus M5 ruby ball ø4,0mm	01-M5-R4-L50-ML41,4-SCFC2-BTi10	<b>K651718</b>					
<b>K651719</b>	M5	Straight Styli	Stylus M5 ruby ball ø3,0mm	01-M5-R3-L100-ML55-SWC1,5-BTi10	<b>K651719</b>					
<b>K651720</b>	M5	Straight Styli	Stylus M5 ruby ball ø5,0mm	01-M5-R5-L75-ML65,5-SCFC5-BTi10	<b>K651720</b>					
<b>K651721</b>	M5	Straight Styli	Stylus M5 ruby ball ø4,0mm	01-M5-R4-L75-ML65-SCFC3-BTi10	<b>K651721</b>					
<b>K651738</b>	M5	Straight Styli	Stylus M5 ruby ball ø10,0mm	01-M5-R10-L200-ML194,7-SCFC6-BTi10	<b>K651738</b>					
<b>K651739</b>	M5	Straight Styli	Stylus M5 ruby ball ø1,5mm	01-M5-R1,5-L40-ML22-SWC1-BTi10	<b>K651739</b>					
<b>K651709</b>	M5	Straight Styli	Stylus M5 ruby ball ø5,0mm	01-M5-R5-L50-ML41,5-SCFC3-BTi10	<b>K651741</b>					
<b>K651741</b>	M5	Straight Styli	Stylus M5 ruby ball ø4,0mm	01-M5-R4-L50-ML41,9-SWC2-BTi10	<b>K651809</b>	A-5003-7269			TM2-2041-SN	
<b>K656000</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø3,0mm	01-M5-SN3-L23,5-ML13,5-SCFC2-BTi11	<b>K656000</b>	A-5555-3785		626115-0303-025	ATG-3025-SN	
<b>K656001</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø3,0mm	01-M5-SN3-L32-ML22-SCFC2-BTi11	<b>K656001</b>	A-5555-3786		626115-0300-033	ATG-3033-SN	M00-1121-029-000
<b>K656002</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø3,0mm	01-M5-SN3-L48,5-ML38,5-SCFC2-BTi11	<b>K656002</b>	A-5555-3787		626115-0302-050	ATG-3050-SN	M00-1121-023-000
<b>K656003</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø3,0mm	01-M5-SN3-L56,5-ML46,5-SCFC2-BTi11	<b>K656003</b>	A-5555-3734		626115-0300-058	ATG-3058-SN	M00-1121-025-000
<b>K656004</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø4,0mm	01-M5-SN4-L31,5-ML21,5-SCFC2-BTi11	<b>K656004</b>	A-5555-3788		626115-0400-034	ATG-4033.5-SN	
<b>K656005</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø4,0mm	01-M5-SN4-L62-ML52-SCFC2-BTi11	<b>K656005</b>	A-5555-3789		626115-0401-064	ATG-4064-SN	M00-1121-027-000
<b>K656006</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø5,0mm	01-M5-SN5-L47,5-ML37,5-SCFC3,5-BTi11	<b>K656006</b>	A-5555-3791		626115-0501-050	ATG-5050-SN	
<b>K656007</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø5,0mm	01-M5-SN5-L50,5-ML40,5-SCFC3,5-BTi11	<b>K656007</b>	A-5555-3792		626115-0501-053	ATG-5053-SN	
<b>K656008</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø5,0mm	01-M5-SN5-L72,5-ML62,5-SCFC3,5-BTi11	<b>K656008</b>	A-5555-3793		626115-0500-075	ATG-5075-SN	M00-1121-028-000
<b>K656009</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø6,0mm	01-M5-SN6-L51-ML41-SCFC3,5-BTi11	<b>K656009</b>	A-5555-3795		626105-0615-051		
<b>K656010</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø7,0mm	01-M5-SN7-L51,5-ML41,5-SCFC3,5-BTi11	<b>K656010</b>	A-5555-3796				
<b>K656011</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø8,0mm	01-M5-SN8-59,5-ML46,5-SCFC3,5-BTi11	<b>K656011</b>	A-5555-3797		626115-0800-064		
<b>K656013</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø8,0mm	01-M5-SN8-L70-ML57-SCFC6-BTi11	<b>K656013</b>			626105-0825-070		
<b>K656014</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø8,0mm	01-M5-SN8-L71-ML58-SCFC6-BTi11	<b>K656014</b>	A-5555-3798		626115-0800-075	ATG-8075-DS6-SN	
<b>K656015</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø8,0mm	01-M5-SN8-L96-ML83-SCFC6-BTi11	<b>K656015</b>	A-5555-3799		626115-0801-100	ATG-80100-SN	
<b>K656018</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø9,0mm	01-M5-SN9-L60-ML46-SCFC6-BTi11	<b>K656018</b>	A-5555-3801				
<b>K656020</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø10,0mm	01-M5-SN10-L60,5-ML52,5-6-BTi11	<b>K656020</b>	A-5555-3802				
<b>K650261</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø3 mm	01-M5-SiN3-L30-ML21-SCFC2-BTi11	<b>K650261</b>					
<b>K650264</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø5 mm	01-M5-SiN5-L50-ML41-SCFC3-BTi11	<b>K650264</b>					
<b>K650262</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø8 mm	01-M5-SiN8-L75-ML62-SSWC6-BTi11	<b>K650262</b>					
<b>K650263</b>	M5	Straight Styli	Stylus M5 silicon nitride ball ø8 mm	01-M5-SiN8-L100-ML87-SSWC6-BTi11	<b>K650263</b>					
<b>K650322</b>	M5	Styli for 5 - way Styli	Stylus for multi-way M5 ruby ball Ø2,0mm	01-M5-R2-L32,5-ML23,5-SWC1,5-BS11	<b>K650322</b>	A-5555-0080		600342-8202-000	MSA-2033	
<b>K650323</b>	M5	Styli for 5 - way Styli	Stylus for multi-way M5 ruby ball Ø1,5mm	01-M5-R1,5-L32,25-ML23,25-SWC1-BS11	<b>K650323</b>	A-5555-0079		600342-8201-000	MSA-1533	

## Stylus Cross Reference Table M5

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K650324</b>	M5	Styli for 5 - way Styli	Stylus for multiway M5 ruby ball Ø1,35mm	01-M5-R1,35-L32,225-ML23,225-SWC1-BS11	<b>K650324</b>	A-5555-0078		600342-8200-000	MSA-1332	
<b>K650325</b>	M5	Styli for 5 - way Styli	Stylus for multi-way M5 ruby ball Ø0,8mm	01-M5-R0,8-L22-ML13/4,5-SWC1/0,8-BS11	<b>K650325</b>	A-5555-0088		600342-8254-000	MSA-1023	
<b>K650326</b>	M5	Styli for 5 - way Styli	Stylus for multi-way M5 ruby ball Ø0,6mm	01-M5-R0,6-L21,9-ML12,9/4,4-SWC1/0,6-BS11	<b>K650326</b>	A-5555-0087		600342-8253-000	MSA-0822	
<b>K650327</b>	M5	Styli for 5 - way Styli	Stylus for multi-way M5 ruby ball Ø0,4mm	01-M5-R0,4-L21,8-ML12,8/4,3-SWC1/0,4-BS11	<b>K650327</b>	A-5555-0086		600342-8252-000	MSA-0622	
<b>K650328</b>	M5	Styli for 5 - way Styli	Stylus for multi-way M5 ruby ball Ø0,3mm	01-M5-R0,3-L21,75-ML12,75/2,25-SWC1/0,3-BS11	<b>K650328</b>	A-5555-0085		600342-8251-000	MSA-0522-Ruby	
<b>K650329</b>	M5	Styli for 5 - way Styli	Stylus for multi-way M5 ruby ball Ø0,3mm	01-M5-R0,2-L21,65-ML12,65/2,15-SWC1/0,2-BS11	<b>K650329</b>	A-5555-0084		600342-8250-000	MSA-0322-Ruby	
<b>K650068</b>	M5	Tip Styli	Tip stylus M5 carbide 30° R 0,1	01-M5-WCR0,1/30°-L61-ML39-SWC3,5-BTi11	<b>K650068</b>	A-5555-0216		600342-8051-000		

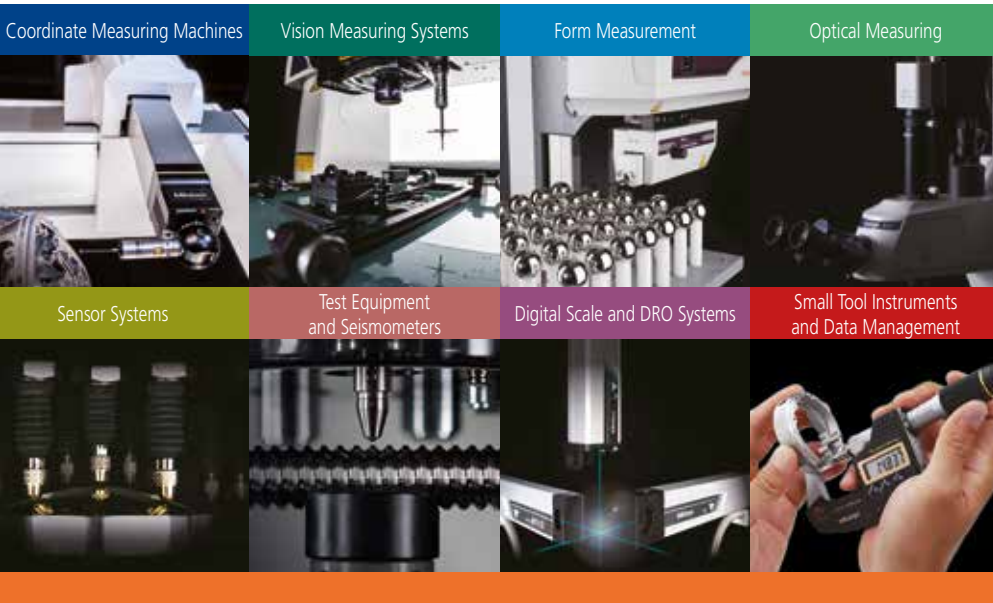
## Stylus Cross Reference Table – Non Threaded Items

Mitutoyo	Thread	Subcategories	Name	Description protocol system	Mitutoyo	Renishaw	Renishaw Old	Zeiss	QMark	Hexagon
<b>K650014</b>		Disc styli	Disc for stylus ø40,0mm	03-DS40-L4-8mm mounting hole	<b>K650014</b>					
<b>K650016</b>		Disc styli	Disc for stylus ø20,0mm	03-DS20-L4-8mm mounting hole	<b>K650192</b>	A-5555-9361		626105-0820-150	ATG-80150-TX	
<b>K650338</b>		Styli for clamping holders	Stylus for holder, ruby ball Ø5,0mm	01-R5-L41,9-SWC3,5	<b>K650338</b>					
<b>K651068</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø0,3mm	01-R0,3-L15,15-ML2,15-SS1/0,2	<b>K651068</b>	A-5555-0108	A-5003-0805	600341-8450-000	TST-0315-R	
<b>K651069</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø0,5mm	01-R0,5-L15,25-ML2,25-SS1/0,3	<b>K651069</b>	A-5555-0109	A-5003-0806	600341-8451-000	TST-0515-R	
<b>K651070</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø0,6mm	01-R0,6-L15,3-ML4,3-SS1/0,4	<b>K651070</b>	A-5555-0110	A-5003-0807	600341-8452-000	TST-0615.5	
<b>K651071</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø0,8mm	01-R0,8-L15,4-ML4,4-SS1/0,6	<b>K651071</b>	A-5555-0111	A-5003-0808	600341-8453-000	TST-0815	
<b>K651072</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø1,0mm	01-R1-L15,5-ML4,5-SS1/0,8	<b>K651072</b>	A-5555-0107	A-5003-0809	600341-8454-000	TST-1016	
<b>K651073</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø1,35mm	01-R1,35-L26,4-SWC1	<b>K651073</b>	A-5555-0112		600341-8500-000	TST-1325	
<b>K651074</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø1,5mm	01-R1,5-L25,75-SWC1	<b>K651074</b>	A-5555-0113	A-5003-0810	600341-8501-000	TST-1526.5	
<b>K651075</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø2,0mm	01-R2-L26-SWC1,5	<b>K651075</b>	A-5555-0114	A-5003-0811	600341-8502-000	TST-2027	
<b>K651076</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø2,5mm	01-R2,5-L26,25-SWC1,5	<b>K651076</b>	A-5555-0115	A-5003-0812	600341-8503-000	TST-2527.5	
<b>K651077</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø3,0mm	01-R3-L26,5-SWC2	<b>K651077</b>		A-5003-0813			
<b>K651078</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø4,0mm	01-R4-L27,2-SWC2	<b>K651078</b>		A-5003-0814			
<b>K651079</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø5,0mm	01-R5-27,5-SWC2	<b>K651079</b>		A-5003-0815			
<b>K651080</b>		Styli for clamping holder	Stylus for holder, ruby ball Ø3,0mm	01-R3-36,5-SWC2	<b>K651080</b>	A-5555-0116		600341-8510-000	TST-3038	
<b>K651223</b>		Tools	Pin spanner stainless steel	11-SS1,2-L23	<b>K651223</b>	A-5004-7582	M-5000-3540	602030-0001-000	PK2-PK3	
<b>K650346</b>		Tools	Pin spanner stainless steel	11-SS1,7-L49	<b>K650346</b>			602030-0027-000		
<b>K650347</b>		Tools	Pin spanner stainless steel	11-SS2,9-L70	<b>K650347</b>			602030-0222-000		
<b>K650376</b>		Tools	M5 Extension tool D11		<b>K650376</b>	A-5003-6134				



# FOR CMM

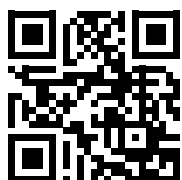
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