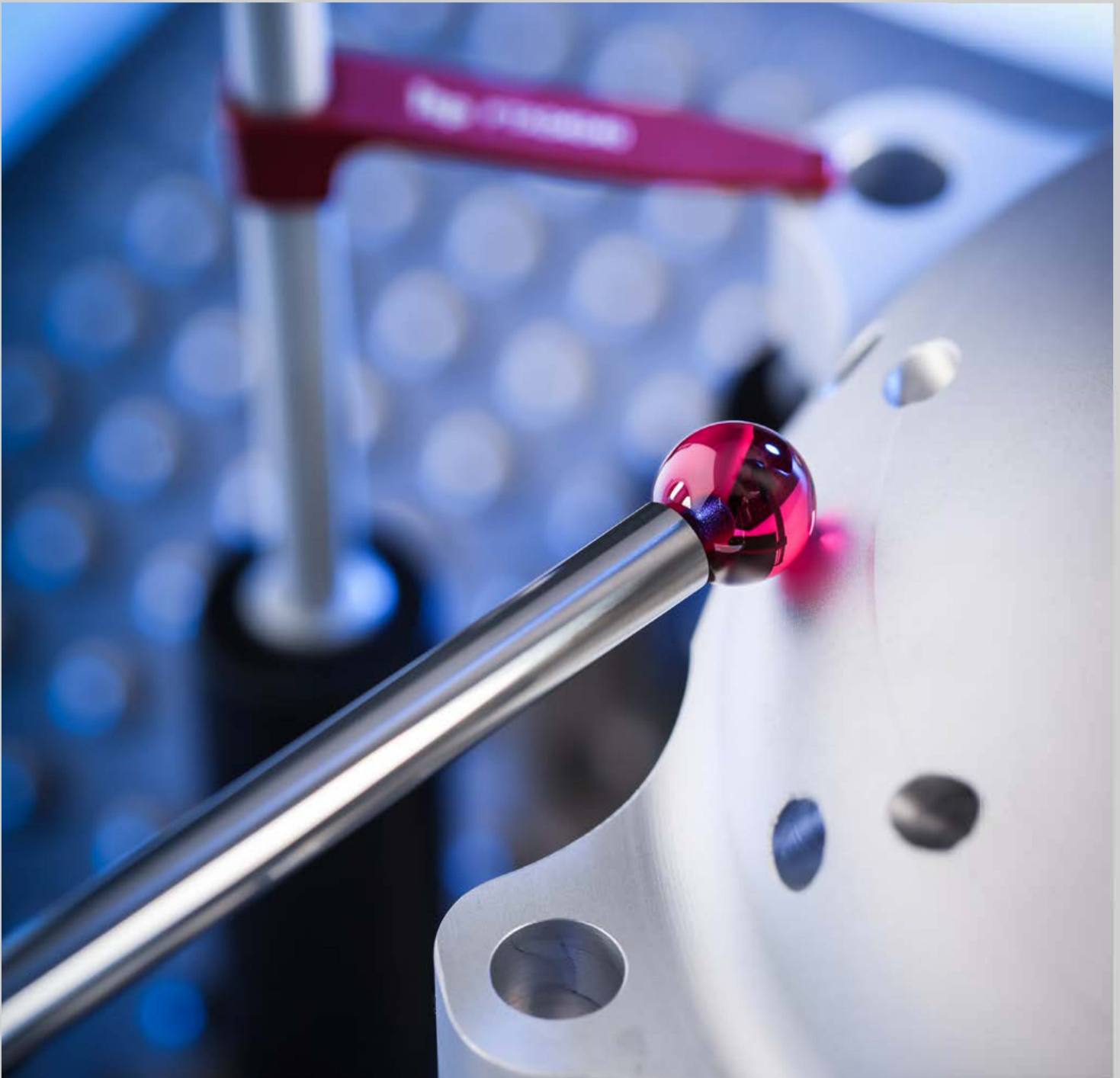




Materials

Carbide

Deflection-resistant carbide stems for all standard applications at stable ambient temperatures, primarily for the use in the measuring room.



Carbon fiber

Very lightweight and extremely strong material with a thermal expansion coefficient approaching zero. Ideal for long probing elements in production measuring technology at ambient temperatures of 15 to 45°C.



Steel

High-strength precision probing elements with a material strength of 1100 N/mm² for ultraprecise measuring jobs, e.g. as reference probing elements for calibration purposes.



Carbon fiber tube

Wound carbon fiber tube of the highest quality used in aviation and space technology for probing elements, extensions, and complex probing configurations. With a thermal expansion coefficient in the nano range at temperatures between 15 and 40°C. Reproducible results and highest process stability in production measuring technology.



Aluminium

Lightweight, for smaller temperature gradients. For use in temperature stable measuring rooms.



Ceramics

A very lightweight material of an extraordinary strength. For the use in long probing elements with a significantly lower weight. For greater temperature gradients in applications of the production environment.



Titanium

Extremely lightweight, high-strength material. itp uses this material in many combinations as connecting element or for extensions. Thanks to the cutting edge laser welding technology, the connections are firmly fused, giving the probing configurations the highest degree of rigidity and stability.



Probe ball materials

Silicon nitride

The probe ball material of the future for coordinate measuring technology. Extremely wear-resistant ceramic material with the lowest surface roughness of all ball materials. Silicon nitride is not attracted by aluminium. That is why during the scanning of aluminium surfaces the transfer of material onto the ball surface is significantly smaller.



Ruby

The ball material for standard applications that has been used for years.



Zirconium oxide

Due to its specific surface, this material is especially appropriate for the scanning of abrasive surfaces, such as cast elements.



Diamond coated

Our probes of the UltraScanning series consist of a ceramic ball whose surface is covered with a diamond coating of about 0.03 mm. The material coating does not adhere to the ball, and the slightest material residue can simply be wiped off.



Aluminium oxide

This is the most commonly used high-performance ceramic material. Has a very high hardness and its areas of application are comparable to those of zirconium oxide.



Carbide

A material characterized by its high hardness, wear resistance and high density. Its special fields of application are, for example, calibration ball standards.



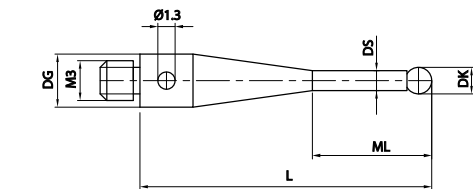
Thread M3

Stainless steel styli

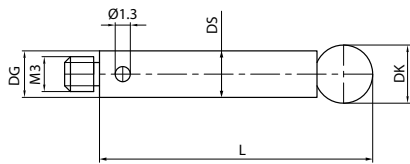
Stainless steel base and stem, ruby ball

Pos.	itp Order No	Variant	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TI M3 010 04 021	A	1,0	4,5	4,0	21,5	0,7	1,0	
2	TI M3 020 04 022	A	2,0	9,0	4,0	22,0	1,5	1,0	
3	TI M3 030 04 022	A	3,0	13,5	4,0	22,5	1,5	1,0	
4	TI M3 040 04 023	A	4,0	13,0	4,0	23,0	2,5	1,4	
5	TI M3 040 04 033	A	4,0	23,0	4,0	33,0	2,5	1,8	
6	TI M3 050 04 023	B	5,0	23,5	4,0	23,5	4,0	2,2	
7	TI M3 050 R4 023	A	5,0	13,5	4,0	23,5	2,5	1,5	
8	TI M3 050 04 033	B	5,0	33,5	4,0	33,5	4,0	3,2	
9	TI M3 050 R4 033	B	5,0	33,5	4,0	33,5	3,5	2,9	
10	TI M3 050 04 042	B	5,0	42,5	4,0	42,5	4,0	4,0	
11	TI M3 050 04 052	B	5,0	52,5	4,0	52,5	4,0	5,0	
12	TI M3 060 04 024	B	6,0	24,0	4,0	24,0	4,0	2,4	
13	TI M3 060 04 034	B	6,0	34,0	4,0	34,0	4,0	3,4	
14	TI M3 060 04 043	B	6,0	43,0	4,0	43,0	4,0	4,2	
15	TI M3 060 04 053	B	6,0	53,0	4,0	53,0	4,0	5,4	

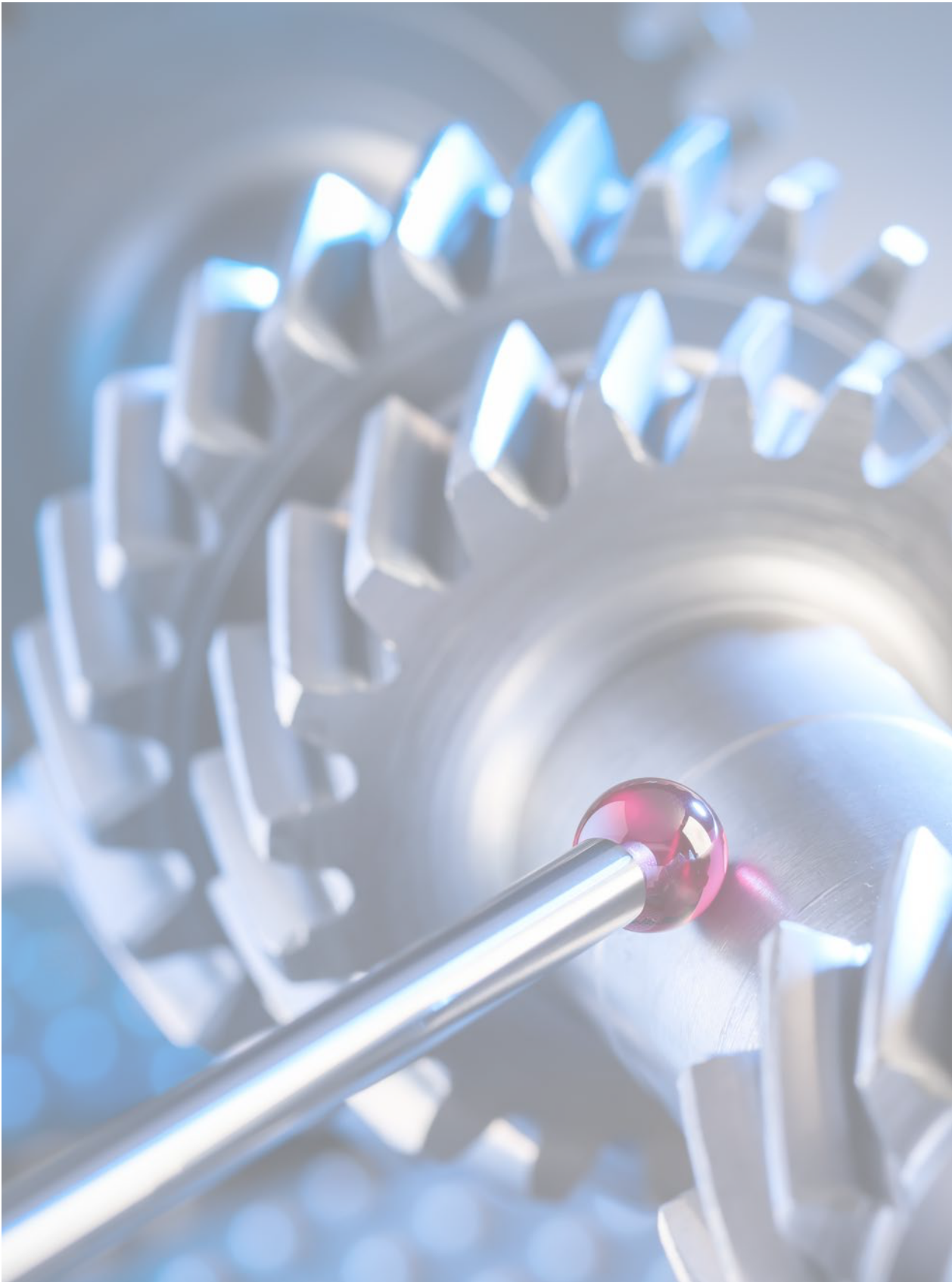
NOTE: Peg mounted balls.



Variant A



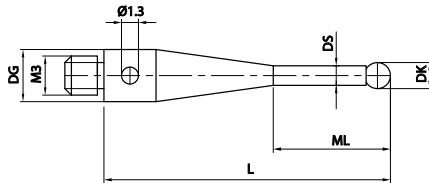
Variant B



Stainless steel base and stem, silicon nitride ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TI M3 S10 04 021	1,0	4,5	4,0	21,5	0,7	1,0	
2	TI M3 S20 04 022	2,0	9,0	4,0	22,0	1,5	1,0	
3	TI M3 S30 04 022	3,0	13,5	4,0	22,5	1,5	0,9	
4	TI M3 S40 04 023	4,0	13,0	4,0	23,0	2,5	1,4	
5	TI M3 S40 04 033	4,0	23,0	4,0	33,0	2,5	1,7	
6	TI M3 S50 R4 023	5,0	13,5	4,0	23,5	2,5	1,5	
7	TI M3 S50 R4 033	5,0	33,5	4,0	33,5	3,5	2,9	

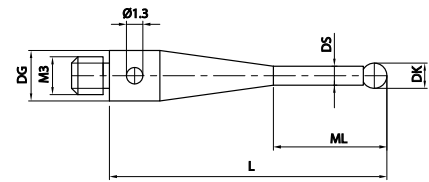
NOTE: Peg mounted balls.



Stainless steel base and stem, zirconium oxide ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TI M3 Z20 04 022	2,0	9,0	4,0	22,0	1,5	1,0	
2	TI M3 Z40 04 023	4,0	13,0	4,0	23,0	2,5	1,4	

NOTE: Peg mounted balls.



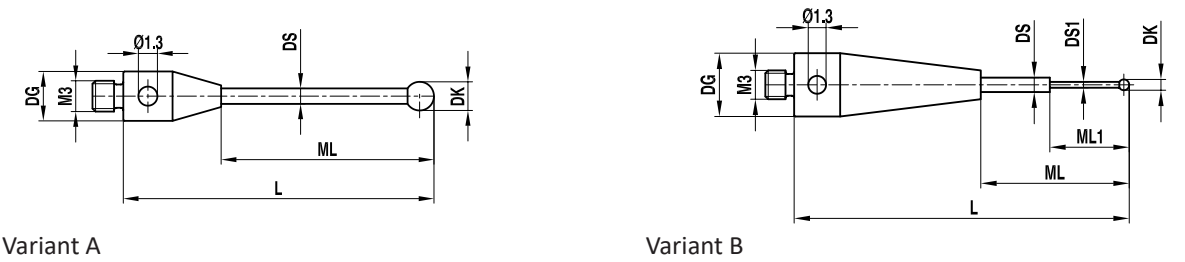
Carbide styli

Stainless steel base, carbide stem, ruby ball

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	TH M3 005 04 021	A	0,5	2,25	4,0	21,25	0,4	1,2	
2	TH M3 010 04 033	A	1,0	25,5	4,0	32,5	0,8	0,8	
3	TH M3 015 04 022	A	1,5	9,0	4,0	22,0	1,0	1,0	
4	TH M3 015 R4 022	A	1,5	14,25	4,0	21,75	1,0	0,8	
5	TH M3 015 04 031	A	1,5	23,25	4,0	30,75	1,0	0,9	
6	TH M3 020 04 021	A	2,0	15,0	4,0	21,0	1,0	0,8	
7	TH M3 020 04 022	A	2,0	14,0	4,0	22,0	1,0	0,8	
8	TH M3 020 H4 022	A	2,0	14,5	4,0	22,0	1,0	0,8	
9	TH M3 020 04 031	A	2,0	23,5	4,0	31,0	1,5	1,3	
10	TH M3 020 04 040	A	2,0	34,0	4,0	40,0	1,5	1,5	
11	TH M3 020 04 041	A	2,0	33,5	4,0	41,0	1,5	1,6	
12	TH M3 025 04 022	A	2,5	14,75	4,0	22,25	2,0	1,3	
13	TH M3 025 04 031	A	2,5	23,75	4,0	31,25	2,0	1,8	
14	TH M3 025 04 041	A	2,5	33,75	4,0	41,25	2,0	2,2	
15	TH M3 030 04 021	A	3,0	13,0	4,0	21,0	2,0	1,3	
16	TH M3 030 04 022	A	3,0	15,5	4,0	21,5	1,5	1,0	
17	TH M3 030 H4 022	A	3,0	15,0	4,0	22,5	1,0	0,9	
18	TH M3 030 04 031	A	3,0	24,0	4,0	31,5	2,0	1,8	
19	TH M3 030 04 041	A	3,0	34,0	4,0	41,5	2,0	2,2	
20	TH M3 030 04 051	A	3,0	44,0	4,0	51,5	2,0	2,7	
21	TH M3 Z30 05 040	A	3,0	21,5	5,5	40,0	2,0	3,3	
22	TH M3 030 05 050	A	3,0	31,5	5,5	50,0	2,0	3,7	
23	TH M3 040 04 030	A	4,0	22,0	4,0	30,0	2,0	1,8	
24	TH M3 040 04 040	A	4,0	32,0	4,0	40,0	2,0	2,3	
25	TH M3 040 04 042	A	4,0	34,5	4,0	42,0	2,0	2,3	
26	TH M3 040 04 050	A	4,0	42,0	4,0	50,0	2,0	2,7	
27	TH M3 040 04 052	A	4,0	44,5	4,0	52,0	2,0	2,8	
28	TH M3 050 04 030	A	5,0	22,0	4,0	30,0	2,0	1,9	
29	TH M3 050 04 040	A	5,0	32,0	4,0	40,0	2,0	2,4	
30	TH M3 050 04 042	A	5,0	35,0	4,0	42,5	2,5	3,2	
31	TH M3 050 04 050	A	5,0	42,0	4,0	50,0	2,0	2,8	
32	TH M3 050 04 052	A	5,0	45,0	4,0	52,5	2,5	4,0	
33	TH M3 050 04 060	A	5,0	52,0	4,0	60,0	2,0	3,2	
34	TH M3 060 04 030	A	6,0	22,0	4,0	30,0	2,0	2,1	
35	TH M3 060 04 040	A	6,0	32,0	4,0	40,0	2,0	2,5	
36	TH M3 060 04 050	A	6,0	42,0	4,0	50,0	2,0	2,9	

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
37	TH M3 002 04 022	B	0,2	2,3/9,0	4,0	22,0	0,18/1,0	1,0	
38	TH M3 0025 04 022	B	0,25	2,3/9,0	4,0	22,0	0,18/1,0	1,0	
39	TH M3 003 04 022	B	0,3	2,3/9,0	4,0	22,0	0,2/1,0	1,0	
40	TH M3 005 04 022	B	0,5	2,5/11,25	4,0	21,25	0,3/1,0	0,9	
41	TH M3 006 04 022	B	0,6	4,6/9,0	4,0	22,0	0,4/1,0	1,0	
42	TH M3 008 04 022	B	0,8	4,8/9,0	4,0	22,0	0,6/1,0	1,0	
43	TH M3 010 04 010	B	1,0	5,0/5,5	4,0	10,5	0,8/1,0	0,5	
44	TH M3 010 H4 021	B	1,0	5,0/14,0	4,0	21,5	0,7/1,0	0,8	
45	TH M3 010 04 022	B	1,0	5,0/9,0	4,0	22,0	0,8/1,0	1,0	

NOTE: Peg mounted balls from ball Ø 0,8 mm.



Stainless steel base, carbide stem, zirconium oxide ball

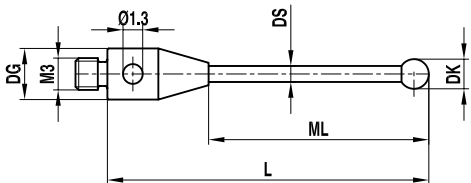
Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TH M3 Z20 04 031	2,0	23,5	4,0	31,0	1,5	1,3	

Stainless steel base, carbide stem, silicon nitride ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TH M3 S15 R4 022	1,5	14,25	4,0	21,75	1,0	0,8	
2	TH M3 S15 04 031	1,5	23,25	4,0	30,75	1,0	0,9	
3	TH M3 S20 04 031	2,0	23,5	4,0	31,0	1,5	1,3	
4	TH M3 S20 04 041	2,0	33,5	4,0	41,0	1,5	1,6	
5	TH M3 S25 04 022	2,5	14,75	4,0	22,25	2,0	1,3	
6	TH M3 S25 04 031	2,5	23,75	4,0	31,25	2,0	1,8	
7	TH M3 S25 04 041	2,5	33,75	4,0	41,25	2,0	2,2	
8	TH M3 S30 04 031	3,0	24,0	4,0	31,5	2,0	1,8	
9	TH M3 S30 04 041	3,0	34,0	4,0	41,5	2,0	2,2	
10	TH M3 S30 04 051	3,0	44,0	4,0	51,5	2,0	2,7	
11	TH M3 S40 04 042	4,0	34,5	4,0	42,0	2,0	2,3	

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
12	TH M3 S40 04 052	4,0	44,5	4,0	52,0	2,0	2,7	
13	TH M3 S50 04 042	5,0	35,0	4,0	42,5	2,5	3,2	
14	TH M3 S50 04 052	5,0	45,0	4,0	52,5	2,5	3,9	

NOTE: Peg mounted balls.

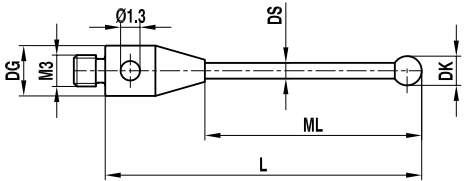


Carbide styli with anticrash protection

Stainless steel base, carbide stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TH M3 040 H4 023	4,0	15,0	4,0	23,0	2,0	1,6	
2	TH M3 040 H4 042	4,0	34,0	4,0	42,0	2,0	2,5	
3	TH M3 050 H4 042	5,0	34,5	4,0	42,5	2,0	2,5	
4	TH M3 060 H4 043	6,0	35,0	4,0	43,0	2,0	2,7	
5	TH M3 080 H4 044	8,0	34,0	4,0	44,0	3,0	5,1	

NOTE: Peg mounted balls.



Ceramic styli

Stainless steel base, ceramic stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TK M3 030 04 051	3,0	44,0	4,0	51,5	2,0	1,2	
2	TK M3 040 04 032	4,0	26,0	4,0	32,0	2,0	1,0	
3	TK M3 040 04 052	4,0	44,5	4,0	52,0	2,0	1,3	
4	TK M3 050 04 032	5,0	24,0	4,0	32,5	2,0	1,2	
5	TK M3 050 04 052	5,0	45,0	4,0	52,5	2,5	1,6	
6	TK M3 060 04 013	6,0	9,0	4,0	13,0	2,0	0,9	
7	TK M3 060 04 043	6,0	30,5	4,0	43,5	2,0	1,8	
8	TK M3 060 04 063	6,0	50,5	4,0	63,5	2,0	2,0	
9	TK M3 080 04 031	8,0	18,5	4,0	31,5	2,0	2,2	

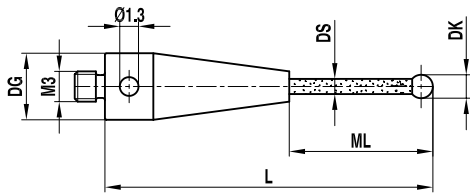
Stainless steel base, ceramic stem, silicon nitride ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece(€)
1	TK M3 S30 04 051	3,0	44,0	4,0	51,5	2,0	1,2	
2	TK M3 S40 04 052	4,0	44,5	4,0	52,0	2,0	1,2	
3	TK M3 S50 04 052	5,0	45,0	4,0	52,5	2,5	1,4	

Stainless steel base, ceramic stem, zirconium oxide ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TK M3 Z40 04 052	4,0	44,5	4,0	52,0	2,0	1,3	

NOTE: Peg mounted balls.



Carbon fiber styli

Stainless steel base, thermostable carbon fiber stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 060 04 078	6,0	68,0	4,0	78,0	4,0	2,6	
2	TC M3 060 04 103	6,0	93,0	4,0	103,0	4,0	3,2	
3	TC M3 080 04 079	8,0	69,0	4,0	79,0	4,0	3,2	
4	TC M3 080 04 104	8,0	94,0	4,0	104,0	4,0	3,8	
5	TC M3 100 04 080	10,0	70,0	4,0	80,0	4,0	4,2	
6	TC M3 100 04 105	10,0	95,0	4,0	105,0	4,0	4,8	
7	TC M3 100 04 155	10,0	145,0	4,0	155,0	4,0	5,9	
8	TC M3 100 04 205	10,0	195,0	4,0	205,0	4,0	7,1	
9	TC M3 120 04 106	12,0	96,0	4,0	106,0	4,0	6,3	
10	TC M3 120 04 156	12,0	146,0	4,0	156,0	4,0	7,4	
11	TC M3 120 04 206	12,0	196,0	4,0	206,0	4,0	8,6	

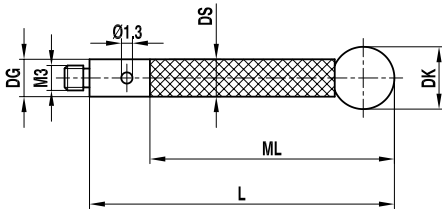
Stainless steel base, thermostable carbon fiber stem, silicon nitride ball

Pos.	itp Best.-Nr.	DK	ML	DG	L	DS	Gewicht (g)	Preis/Stück (€)
1	TC M3 S60 04 078	6,0	68,0	4,0	78,0	4,0	2,5	
2	TC M3 S60 04 103	6,0	93,0	4,0	103,0	4,0	3,1	
3	TC M3 S80 04 079	8,0	69,0	4,0	79,0	4,0	2,9	
4	TC M3 S80 04 104	8,0	94,0	4,0	104,0	4,0	3,6	

Stainless steel base, thermostable carbon fiber stem, zirconium oxide ball

Pos.	itp Best.-Nr.	DK	ML	DG	L	DS	Gewicht (g)	Preis/Stück (€)
1	TC M3 Z60 04 078	6,0	68,0	4,0	78,0	4,0	2,5	
2	TC M3 Z60 04 103	6,0	93,0	4,0	103,0	4,0	3,4	
3	TC M3 Z80 04 079	8,0	69,0	4,0	79,0	4,0	3,6	
4	TC M3 Z80 04 104	8,0	94,0	4,0	104,0	4,0	4,1	

NOTE: Peg mounted balls. Thermostable carbon fiber E-Modul about 450 GPa.

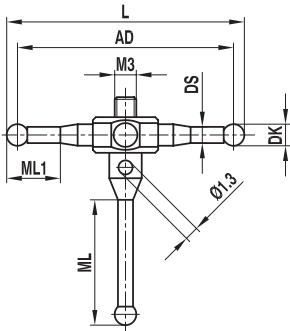


Star styli

Stainless steel cube base and stems, ruby balls

Pos.	itp Order No	DK	ML1/ML	DG	L	DS	AD	Weight (g)	Price/Piece (€)
1	SI M3 020 07 032	2,0	9,5 / 12,5	7,0	32,0	1,4	30,0	2,4	
2	SI M3 020 07 052	2,0	12,0 / 12,0	7,0	52,0	1,4	50,0	3,7	

NOTE: Peg mounted balls.

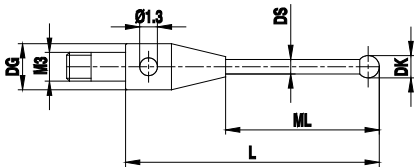


Styli for star configuration

Stainless steel base and stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TI M3 020 04 019	2,0	12,0	4,0	19,0	1,4	0,9	
2	TI M3 020 04 029	2,0	11,0	4,0	29,0	1,4	1,4	

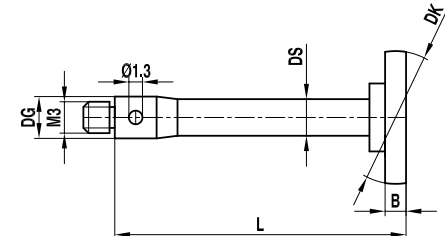
NOTE: Peg mounted balls.



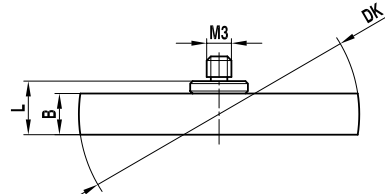
Spherical disk styli

Stainless steel base and stems, high-strength steel disk

Pos.	itp Order No	Variant	DK	DG	L	DS	B	Weight (g)	Price/Piece (€)
1	KI M3 127 04 032	A	12,7	4,0	32,0	3,5	2,3	4,4	
2	KI M3 050 35 M30	B	35,0		7,0		5,0	8,6	
3	KI M3 060 63 M30	B	63,5		7,5		6,0	45,4	



Variant A



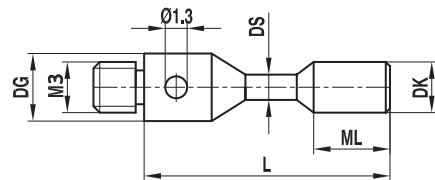
Variant B

Cylinder styli

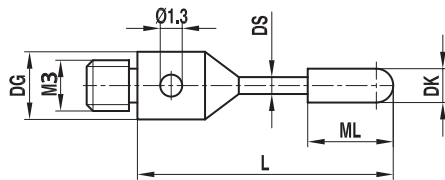
Stainless steel base, stem and cylinder carbide/ruby

Pos.	itp Order No	Variant	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	ZH M3 015 04 011	A	1,5	1,5	4,0	11,0	1,0	0,7	
2	ZH M3 030 04 013	A	3,0	4,0	4,0	13,0	1,5	1,1	
3	ZR M3 020 04 020	B	2,0	7,0	4,0	21,0	1,0	0,8	

NOTE: H = carbide, R = ruby.



Variant A

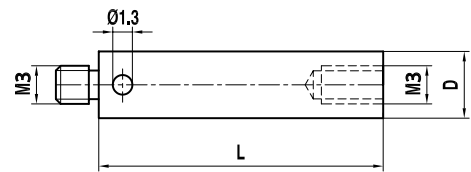


Variant B

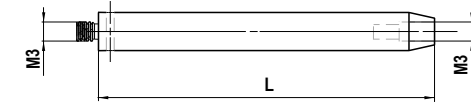
Extension

Stainless steel

Pos.	itp Order No	Variant	DG	L	Weight (g)	Price/Piece (€)
1	VI M3 000 04 010	A	4,0	10,0	0,7	
2	VI M3 000 04 020	A	4,0	20,0	1,7	
3	VI M3 000 04 030	A	4,0	30,0	2,7	
4	VI M3 000 04 035	A	4,0	35,0	3,1	
5	VI M3 000 04 040	A	4,0	40,0	3,6	
6	VI M3 000 04 050	A	4,0	50,0	4,7	
7	VI M3 000 H6 050	B	6,0	50,0	10,5	



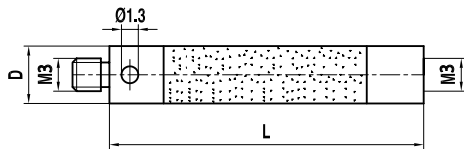
Variant A



Variant B

Ceramic, stainless steel ends

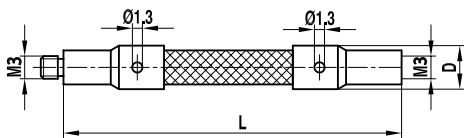
Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VK M3 000 04 030	4,0	30,0	1,9	
2	VK M3 000 04 040	4,0	40,0	2,4	
3	VK M3 000 04 050	4,0	50,0	2,9	
4	VK M3 000 04 060	4,0	60,0	3,3	



Carbon fiber, stainless steel ends

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VC M3 000 04 075	4,6	75,0	3,2	
2	VC M3 000 04 100	4,6	100,0	3,8	

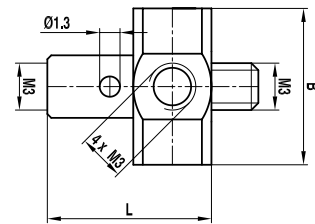
NOTE: Carbon fibre base made of high-tech fibres from space technology. E-Modul about 450 GPa.



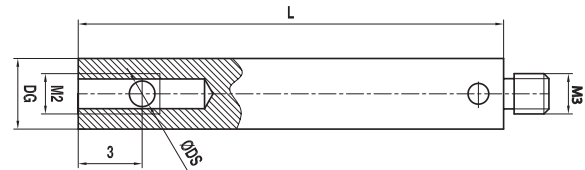
Holder

Stainless steel

Pos.	itp Order No	Variant	DG	L	DS	B	Weight (g)	Price/Piece (€)
1	HI M3 000 10 013	A		13,0		10,0	3,3	
2	HI M3 000 12 011	A		11,5		12,0	4,4	
3	KH M3 010 04 030	B	4,0	30,0	1,0		2,9	
4	KH M3 015 04 030	B	4,0	30,0	1,5		2,9	



Variant A (rotatable)

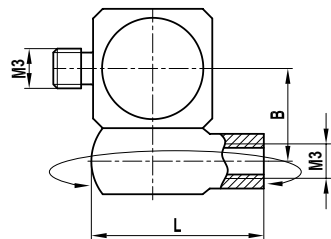


Variant B (90°)

Rotary adapter

Stainless steel

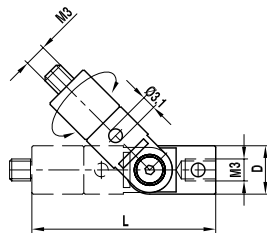
Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	DI M3 000 06 012	12,0	6,0	4,1	44,00



Rotary knuckle, slewing range 360°, swing range 180°

Stainless steel

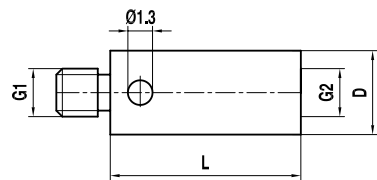
Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	GI M3 000 04 017	4,0	17,0	0,2	



Adapter

Stainless steel

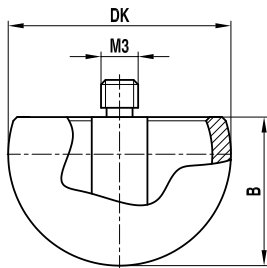
Pos.	itp Order No	DG	L	G1/G2	Weight (g)	Price/Piece (€)
1	RI M3 000 04 005	4,0	5,0	M3/M2	0,5	



Hollow ceramic hemisphere

Stainless steel base, hollow ceramic hemisphere

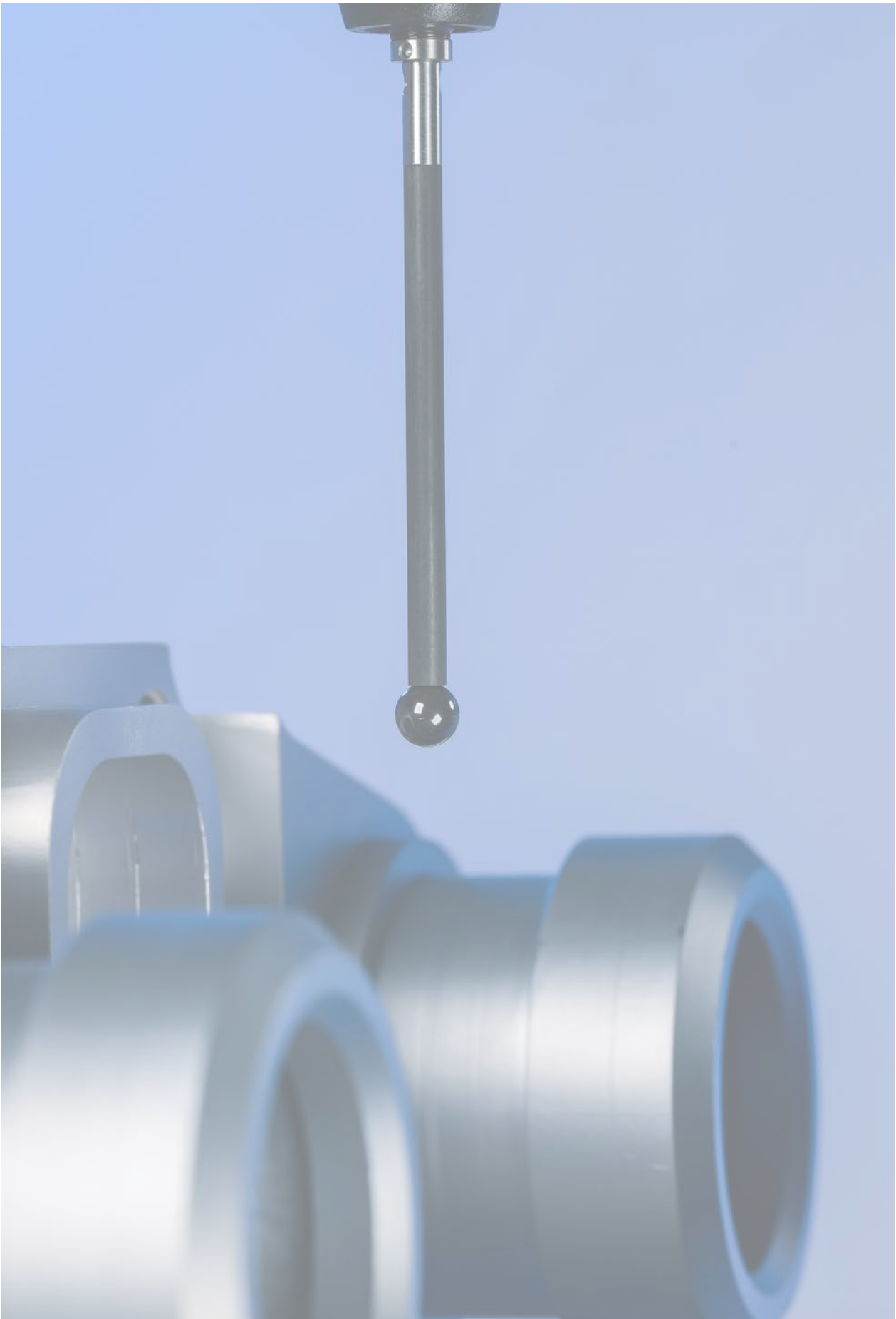
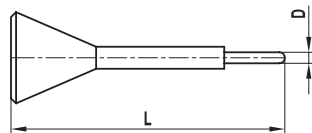
Pos.	itp Order No	DK	L	B	Weight (g)	Price/Piece (€)
1	HK M3 180 04 012	18,0	12,00	11,0	3,7	
2	HK M3 300 04 018	30,0	18,00	17,0	14,5	



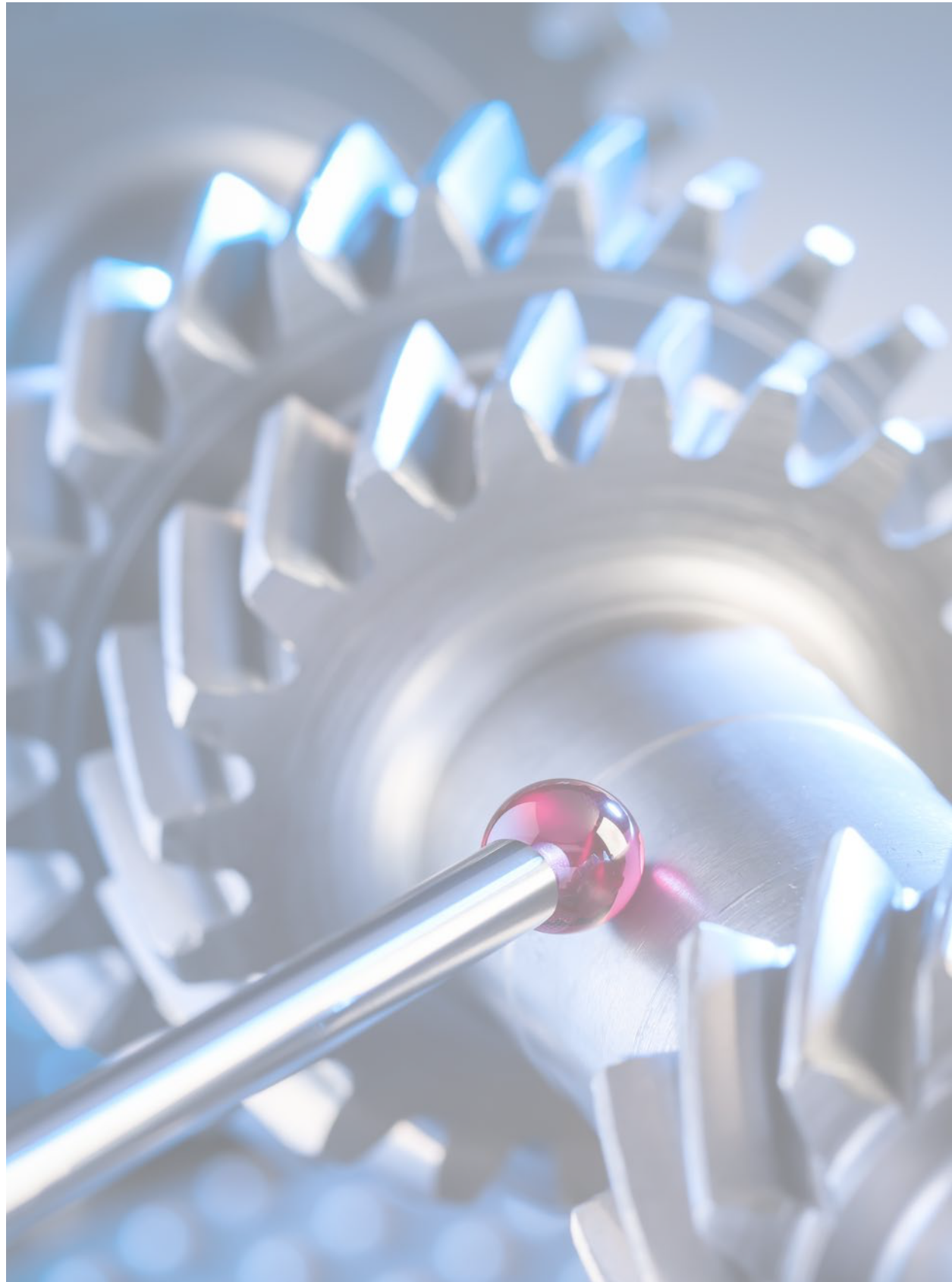
Wrench

Stainless steel

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	MI MO 012 00 023	1,2	23,0	0,7	



Variant B



ULTRA Scanning styli XXT

Titanium base, carbide stem, diamond-coated ball

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	TH M3 DC15 05 030	A	1,5	22,5	5,0	30,0	1,0	0,8	
2	TH M3 DC15 05 040	A	1,5	31,0	5,0	40,0	1,0	0,9	
3	TH M3 DC20 05 020	A	2,0	11,0	5,0	20,0	1,0	0,7	
4	TH M3 DC20 05 030	A	2,0	21,0	5,0	30,0	1,0	0,8	
5	TH M3 DC20 05 040	A	2,0	31,0	5,0	40,0	1,5	1,5	
6	TH M3 DC10 05 020	B	1,0	5,0/11,0	5,0	20,0	06/1,0	0,7	
7	TH M3 DC10 05 030	B	1,0	5,0/21,0	5,0	30,0	0,8/1,0	0,8	
8	TH M3 DC10 05 040	B	1,0	5,0/31,0	5,0	40,0	0,8/1,0	0,9	

NOTE: Balls actively brazed to the stem.

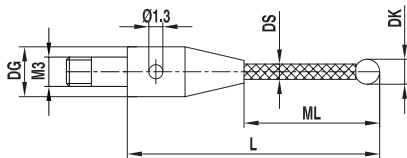


ULTRA Scanning carbon fiber styli XXT

Titanium base, carbon fiber stem, diamond-coated ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 DC30 05 033	3,0	24,0	5,0	33,0	2,0	0,8	
2	TC M3 DC30 05 050	3,0	41,0	5,0	50,0	2,0	0,9	
3	TC M3 DC30 05 058	3,0	49,0	5,0	58,0	2,0	0,9	
4	TC M3 DC30 05 059	3,0	50,0	5,0	59,0	2,0	0,9	
5	TC M3 DC30 05 075	3,0	66,0	5,0	75,0	2,0	1,0	
6	TC M3 DC40 05 050	4,0	41,0	5,0	50,0	2,0	0,9	
7	TC M3 DC50 05 050	5,0	41,0	5,0	50,0	3,5	1,4	
8	TC M3 DC50 05 075	5,0	66,0	5,0	75,0	3,5	1,9	

NOTE: Glued balls. Thermostable carbon fiber E-Modul about 450 GPa.



Reference styli XXT (red dot)

Titanium base, thermostable carbon fiber stem, ruby ball

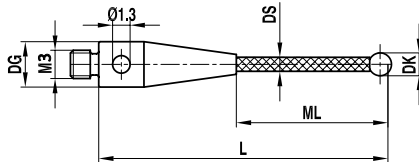
Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 R50 05 030	5,0	21,0	5,0	30,0	3,5	1,1	
2	TC M3 R50 05 050	5,0	41,0	5,0	50,0	3,5	1,4	

Carbon fiber styli XXT

Titanium base, thermostable carbon fiber stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 030 05 025	3,0	16,0	5,0	25,0	2,0	0,7	
2	TC M3 030 05 033	3,0	24,0	5,0	33,0	2,0	0,8	
3	TC M3 030 05 040/2,0	3,0	31,0	5,0	40,0	2,0	0,8	
4	TC M3 030 05 042	3,0	33,0	5,0	42,0	2,0	0,8	
5	TC M3 030 05 050	3,0	41,0	5,0	50,0	2,0	0,9	
6	TC M3 030 05 058	3,0	49,0	5,0	58,0	2,0	0,9	
7	TC M3 030 05 059	3,0	50,0	5,0	59,0	2,0	0,9	
8	TC M3 030 05 075	3,0	66,0	5,0	75,0	2,0	1,0	
9	TC M3 040 05 050	4,0	41,0	5,0	50,0	2,0	0,9	
10	TC M3 040 05 075	4,0	66,0	5,0	75,0	3,5	1,8	
11	TC M3 050 05 030/9	5,0	21,0	5,0	30,0	3,5	1,1	
12	TC M3 050 05 040	5,0	31,0	5,0	40,0	3,5	1,3	
13	TC M3 050 05 050	5,0	41,0	5,0	50,0	3,5	1,4	
14	TC M3 050 05 060	5,0	51,0	5,0	60,0	3,5	1,6	
15	TC M3 050 05 075	5,0	66,0	5,0	75,0	3,5	1,9	
16	TC M3 060 05 050	6,0	40,0	5,0	50,0	3,5	1,6	
17	TC M3 060 05 070	6,0	61,0	5,0	70,0	3,5	2,0	
18	TC M3 060 05 100	6,0	91,0	5,0	100,0	3,5	2,5	
19	TC M3 080 05 030	8,0	30,0	5,0	30,0	5,0	2,0	
20	TC M3 080 05 050	8,0	50,0	5,0	50,0	5,0	2,5	
21	TC M3 080 05 070	8,0	70,0	5,0	70,0	5,0	3,6	
22	TC M3 080 05 100	8,0	100,0	5,0	100,0	5,0	4,1	
23	TC M3 080 05 125	8,0	125,0	5,0	125,0	5,0	4,9	

NOTE: Peg mounted balls. Thermostable carbon fiber E-Modul about 450 GPa.



Carbon fiber styli XXT with silicon nitride/cup mounted

Titanium base, thermostable carbon fiber stem, silicon nitride ball, cup mounted

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 S30 05 033/K	3,0	24,0	5,0	33,0	2,0	0,8	
2	TC M3 S30 05 050/K	3,0	41,0	5,0	50,0	2,0	0,8	
3	TC M3 S50 05 050/K	5,0	41,0	5,0	50,0	3,5	1,4	
4	TC M3 S50 05 075/K	5,0	66,0	5,0	75,0	3,5	1,8	
5	TC M3 S80 05 070/K	8,0	70,0	5,0	70,0	5,0	3,1	
6	TC M3 S80 05 125/K	8,0	125,0	5,0	125,0	5,0	5,0	

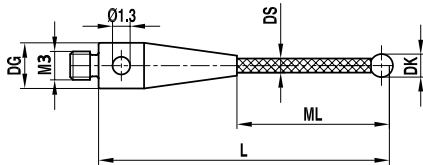
NOTE: Thermostable carbon fiber E-Modul about 450 GPa.

Carbon fiber styli XXT with silicon nitride/peg mounted

Titanium base, thermostable carbon fiber stem, silicon nitride ball, peg mounted

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Pice/Piece (€)
1	TC M3 S30 05 033	3,0	24,0	5,0	33,0	2,0	0,7	
2	TC M3 S30 05 050	3,0	41,0	5,0	50,0	2,0	0,8	
3	TC M3 S50 05 050	5,0	41,0	5,0	50,0	3,5	1,8	
4	TC M3 S50 05 075	5,0	66,0	5,0	75,0	3,5	1,8	
5	TC M3 S80 05 070	8,0	70,0	5,0	70,0	5,0	3,3	
6	TC M3 S80 05 125	8,0	125,0	5,0	125,0	5,0	4,7	

NOTE: Peg mounted for higher stiffness. Thermostable carbon fiber E-Modul about 450 GPa.



Carbon fiber clamping styli XXT

Titanium base, thermostable carbon fiber stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 030 05 020	3,0	11,0	5,0	20,0	2,0	0,9	
2	TC M3 030 05 030	3,0	21,0	5,0	30,0	2,0	0,9	
3	TC M3 030 05 040	3,0	31,0	5,0	40,0	2,0	1,0	

NOTE: Thermostable carbon fiber E-Modul about 450 GPa.

Titanium base, thermostable carbon fiber stem, silicon nitride ball, cup mounted

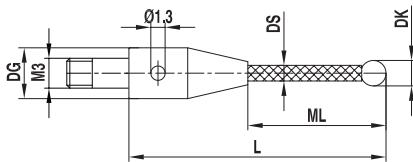
Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 S30 05 020/K	3,0	11,0	5,0	20,0	2,0	0,9	
2	TC M3 S30 05 030/K	3,0	21,0	5,0	30,0	2,0	0,9	
3	TC M3 S30 05 040/K	3,0	31,0	5,0	40,0	2,0	1,0	

NOTE: Cup mounted. Thermostable carbon fiber E-Modul about 450 GPa.

Titanium base, thermostable carbon fiber stem, silicon nitride ball, peg mounted

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M3 S30 05 020	3,0	11,0	5,0	20,0	2,0	0,9	
2	TC M3 S30 05 030	3,0	21,0	5,0	30,0	2,0	1,0	
3	TC M3 S30 05 040	3,0	31,0	5,0	40,0	2,0	1,0	

NOTE: Peg mounted for higher stiffness. Thermostable carbon fiber E-Modul about 450 GPa.



Carbon fiber styli for ¼ star styli XXT

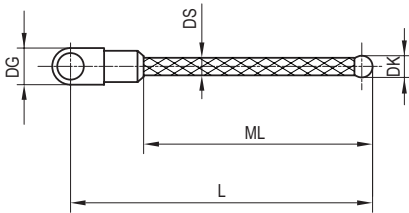
Titanium base, thermostable carbon fiber stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	SC M3 030 05 020	3,0	11,0	5,0	20,0	2,0	0,9	
2	SC M3 030 05 030	3,0	21,0	5,0	30,0	2,0	0,9	
3	SC M3 030 05 040	3,0	31,0	5,0	40,0	2,0	1,0	

Titanium base, thermostable carbon fiber stem, silicon nitride ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	SC M3 S30 05 020	3,0	11,0	5,0	20,0	2,0	0,8	
2	SC M3 S30 05 030	3,0	21,0	5,0	30,0	2,0	0,9	
3	SC M3 S30 05 040	3,0	31,0	5,0	40,0	2,0	0,9	

NOTE: Peg mounted balls. Thermostable carbon fiber E-Modul about 450 GPa.



Carbon fiber styli for ½ star styli XXT 90°

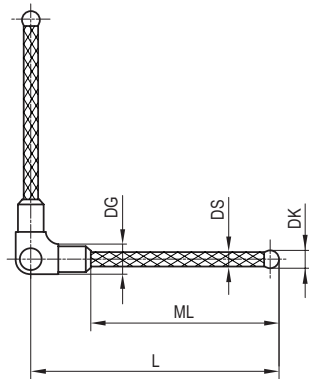
Titanium base, thermostable carbon fiber stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	SC M3 030 05 020/90°	3,0	11,0	5,0	20,0	2,0	1,5	
2	SC M3 030 05 030/90°	3,0	21,0	5,0	30,0	2,0	1,6	
3	SC M3 030 05 040/90°	3,0	31,0	5,0	40,0	2,0	1,7	

Titanium base, thermostable carbon fiber stem, silicon nitride ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	SC M3 S30 05 020/90°	3,0	11,0	5,0	20,0	2,0	1,5	
2	SC M3 S30 05 030/90°	3,0	21,0	5,0	30,0	2,0	1,5	
3	SC M3 S30 05 040/90°	3,0	31,0	5,0	40,0	2,0	1,6	

NOTE: Peg mounted balls. Thermostable carbon fiber E-Modul about 450 GPa.



Carbon fiber styli for ½ star styli XXT 180°

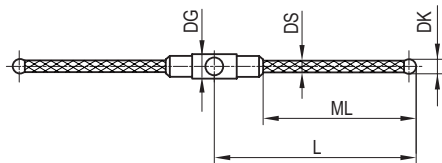
Titanium base, thermostable carbon fiber stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	SC M3 030 05 020/180°	3,0	11,0	5,0	20,0	2,0	1,5	
2	SC M3 030 05 030/180°	3,0	21,0	5,0	30,0	2,0	1,5	
3	SC M3 030 05 040/180°	3,0	31,0	5,0	40,0	2,0	1,6	

Titanium base, thermostable carbon fiber stem, silicon nitride ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	SC M3 S30 05 020/180°	3,0	11,0	5,0	20,0	2,0	1,4	
2	SC M3 S30 05 030/180°	3,0	21,0	5,0	30,0	2,0	1,5	
3	SC M3 S30 05 040/180°	3,0	31,0	5,0	40,0	2,0	1,7	

NOTE: Peg mounted balls. Thermostable carbon fiber E-Modul about 450 GPa

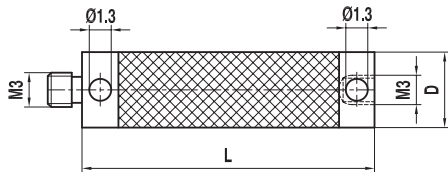


Carbon fiber extension XXT

Thermostable carbon fiber

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VC M3 000 05 020	5,0	20,0	1,1	
2	VC M3 000 05 025	5,0	25,0	1,2	
3	VC M3 000 05 030	5,0	30,0	1,3	
4	VC M3 000 05 040	5,0	40,0	1,4	
5	VC M3 000 05 050	5,0	50,0	1,7	
6	VC M3 000 05 060	5,0	60,0	1,8	
7	VC M3 000 05 065	5,0	65,0	1,8	
8	VC M3 000 05 075	5,0	75,0	2,2	
9	VC M3 000 05 080	5,0	80,0	2,6	
10	VC M3 000 05 100	5,0	100,0	2,6	
11	VC M3 000 05 130	5,0	130,0	2,9	
12	VC M3 000 05 150	5,0	150,0	3,5	

NOTE: Thermostable carbon fiber E-Modul about 450 GPa.

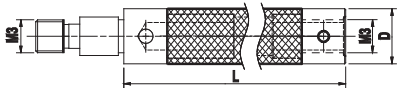


Clamping extension with thread carbon fiber

Thermostable carbon fiber

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VC M3 000 K5 020	5,0	20,0	1,3	
2	VC M3 000 K5 045	5,0	45,0	1,8	

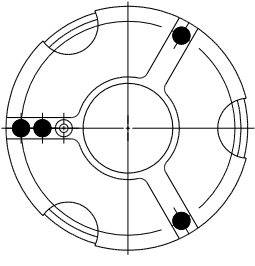
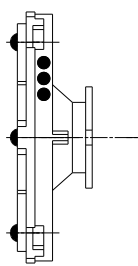
NOTE: Thermostable carbon fiber E-Modul about 450 GPa.



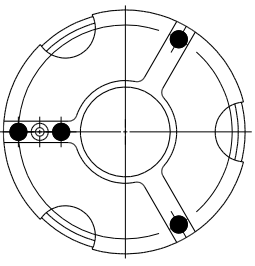
Adapter plate VAST XXT

TL1/TL3, aluminium

Pos.	itp Order No	Variant	Weight (g)	Price/Piece (€)
1	TP M3 MES SO TL1	A	4,5	
2	TP M3 MES SO TL3	B	4,5	



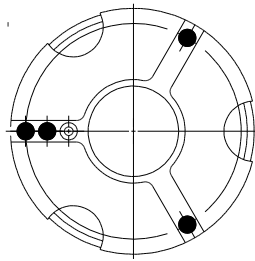
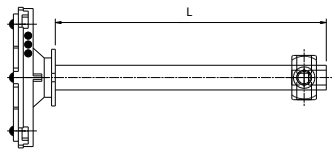
Variant A



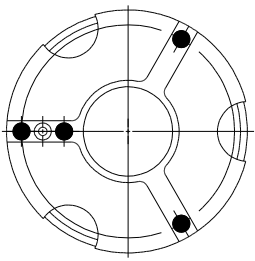
Variant B

TL1S/TL3S, star, aluminium

Pos.	itp Order No	Variant	L	Weight (g)	Price/Piece (€)
1	TP M3 MES SO TL1S	A	55,0	5,9	
2	TP M3 MES SO TL3S	B	55,0	6,0	



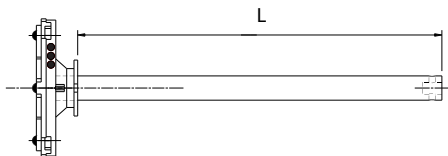
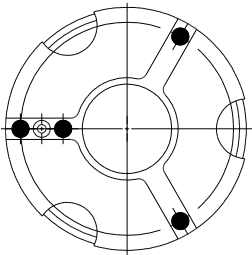
Variant A



Variant B

TL2, aluminium

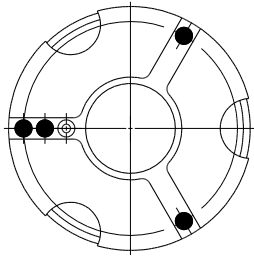
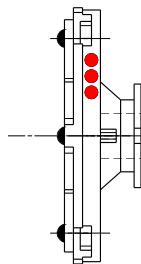
Pos.	itp Order No	Weight (g)	Price/Piece (€)
1	TP M3 MES SO TL2	5,5	



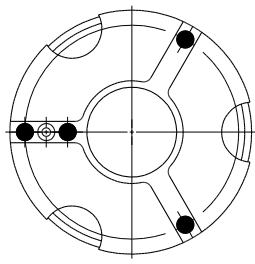
Reference adapter plate VAST XXT

TL1/TL3, aluminium

Pos.	itp Order No	Variant	Weight (g)	Price/Piece (€)
1	TP M3 MES SO TL1R	A	4,5	
2	TP M3 MES SO TL3R	B	4,6	



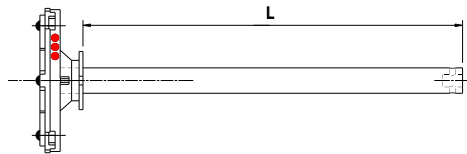
Variant A



Variant B

TL2, aluminium

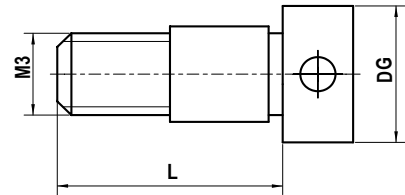
Pos.	itp Order No	Weight (g)	Price/Piece (€)
1	TP M3 MES SO TL2R	5,5	



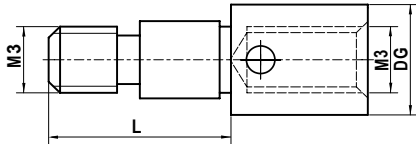
Clamping screw XXT

Titanium

Pos.	itp Order No	Variant	DG	L	Weight (g)	Price/Piece (€)
1	SI M3 000 05 008	A	5,0	8,0	0,4	
2	SI M3 M30 05 008	B	5,0	8,0	0,6	



Variant A

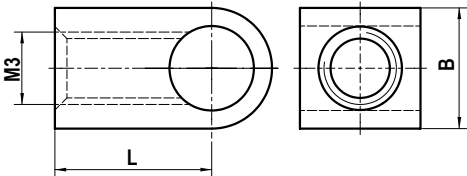


Variant B with internal thread M3

Cube 90° XXT, 1-way

Titanium

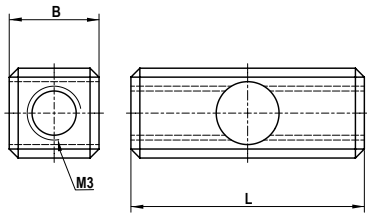
Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	WT M3 000 05 006	6,5	5,0	0,6	



Cube 180° XXT, 2-way

Titanium

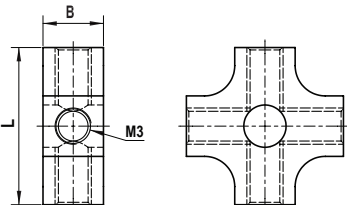
Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	WT M3 180 05 013	13,0	5,0	1,0	



Cube XXT, star

Titanium

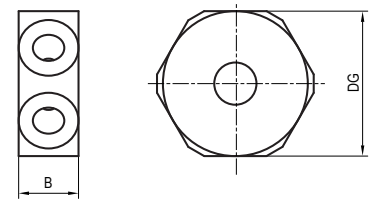
Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	WT M3 000 05 013	13,0	1,8	1,7	



Cube XXT, 6-star

Titanium

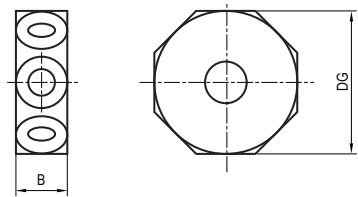
Pos.	itp Order No	DG	B	Weight (g)	Price/Piece (€)
1	WT M3 000 12 005	12,0	5,0	1,8	



Cube XXT, 8-star

Titanium

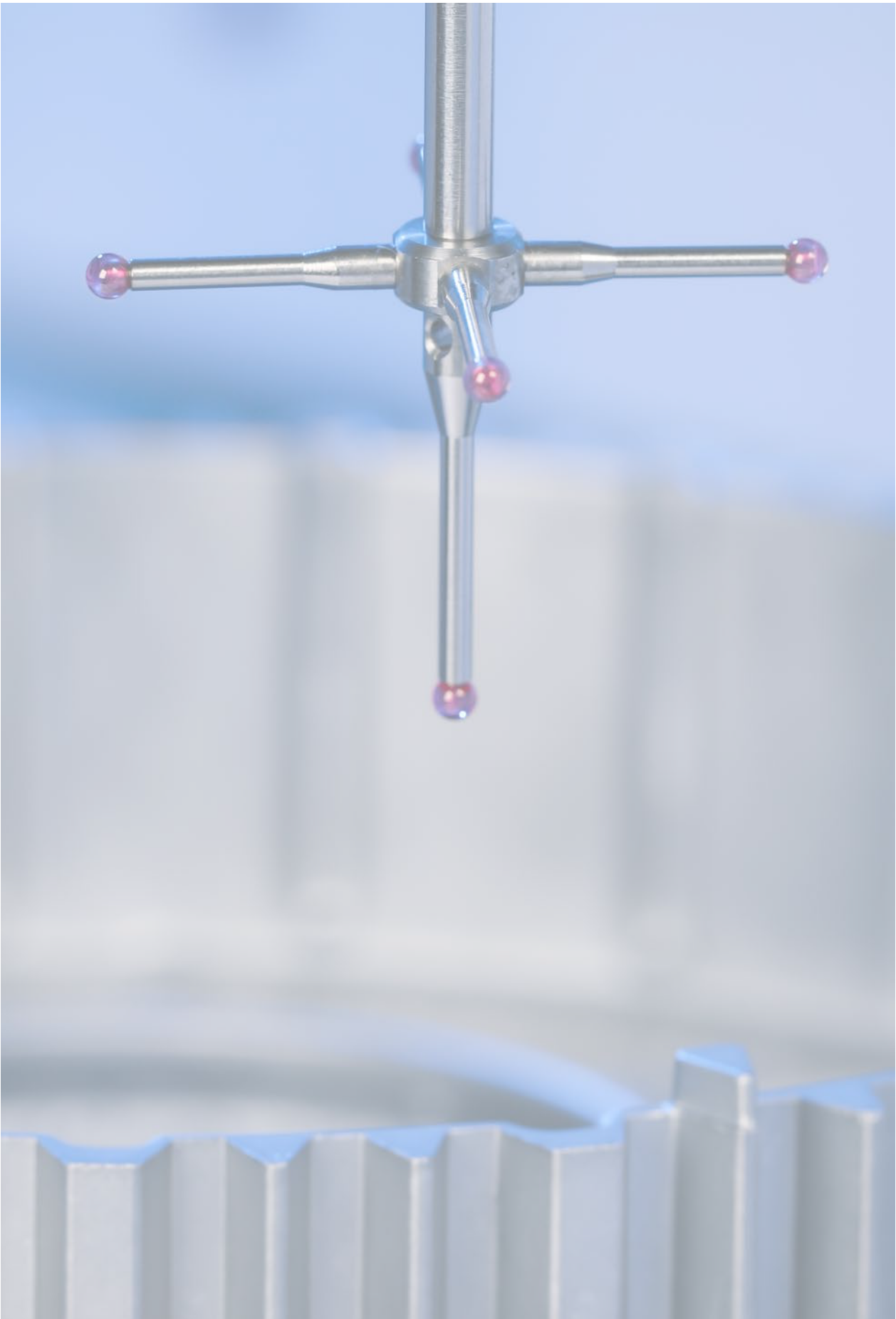
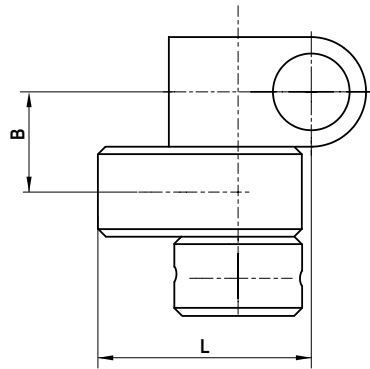
Pos.	itp Order No	DG	B	Weight (g)	Price/Piece (€)
1	WT M3 000 14 005	14,0	5,0	2,3	



Knuckle XXT

Titanium

Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	DT M3 000 05 010	10,0	5,0	1,6	



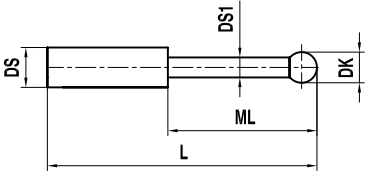
Thread M5

Styli non threaded

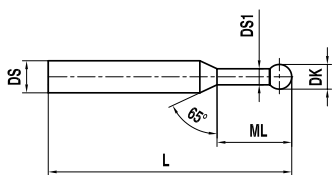
Carbide stem, ruby ball, non threaded

Pos.	itp Order No	Variant	DK	ML	L	DS1/DS	Weight (g)	Price/Piece (€)
1	KT M5 002 01 015	A	0,2	2,3	15,2	0,18/1,0	0,2	
2	KT M5 0025 01 015	A	0,25	2,35	15,25	0,18/1,0	0,1	
3	KT M5 003 01 015	A	0,3	2,3	15,3	0,2/1,0	0,1	
4	KT M5 004 01 015	A	0,4	2,5	15,5	0,3/1,0	0,1	
5	KT M5 005 01 015	A	0,5	2,5	15,5	0,3/1,0	0,1	
6	KT M5 006 01 015	A	0,6	4,6	15,6	0,4/1,0	0,1	
7	KT M5 007 01 015	A	0,7	4,6	15,7	0,4 /1,0	0,1	
8	KT M5 008 01 015	A	0,8	4,8	15,8	0,6/1,0	0,1	
9	KT M5 010 01 016	A	1,0	5,0	16,0	0,8/1,0	0,2	
10	KT M5 013 10 026	C	1,35	–	26,35	1,0	0,3	
11	KT M5 015 10 026	C	1,5	–	26,5	1,0	0,3	
12	KT M5 020 10 027	C	2,0	–	27,0	1,0	0,3	
13	KT M5 020 15 027	C	2,0	–	27,0	1,5	0,7	
14	KT M5 025 10 027	C	2,5	–	27,5	1,0	0,3	
15	KT M5 025 15 027	C	2,5	–	27,5	1,5	0,7	
16	KT M5 030 20 038	C	3,0	–	38,0	2,0	1,7	
17	KT M5 050 35 045	C	5,0	–	45,0	3,5	5,8	
18	KT SO 015 10 016	C	1,5		16,0	1,0	0,2	
19	KT SO 020 10 016	C	2,0		16,0	1,0	0,2	
20	KT M5 003 02 022	A	0,3	4,15	22,15 / 22,0	0,2 / 2,0	0,8	
21	KT M5 005 02 022	A	0,5	4,25	22,25 / 22,0	0,3 / 2,0	0,8	
22	KT M5 008 02 022	A	0,8	4,4	22,4 / 22,0	0,6 / 2,0	0,9	
23	KT M5 010 02 022	A	1,0	4,5	22,5 / 22,0	0,8 / 2,0	0,8	
24	KT M5 010 02 034	A	1,0	14,5	34,5 /34,0	0,8 / 2,0	1,0	
25	KT M5 015 02 022	A	1,5	10,35	22,75 / 22,0	1,2 / 2,0	0,7	
26	KT M5 020 02 022	A	2,0	10,6	23,0 / 22,0	1,5 / 2,0	0,8	
27	KT M5 050 04 037	A	5,0	12,5	37,5	3,0 / 4,0	5,6	
28	KT M5 070 04 038	C	7,0	38,5	4,0	6,0	6,5	
29	KT M5 100 04 040	C	10,0	40,0	4,0	6,0	7,6	
30	KT M5 003 01 015/65°	B	0,3	2,3	15,3	0,2/1,0	0,1	
31	KT M5 005 01 015/65°	B	0,5	2,5	15,5	0,3/1,0	0,2	

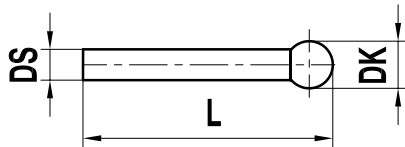
NOTE: Peg mounted balls from Ø 0,5 mm. Ø < 0,5 mm brazed.



Variant A



Variant B 65° angle



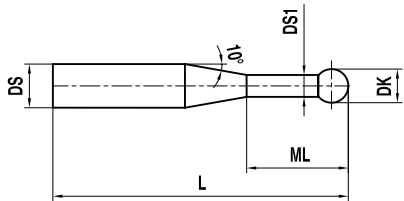
Variant C

Styli for gear measurement non threaded

Carbide stem, ruby ball, non threaded

Pos.	itp Order No	DK	ML1/ML	L	DS1/DS	Weight (g)	Price/Piece (€)
1	KT M5 008 04 035	0,8	4,9	35,4	0,6/4,0	4,4	
2	KT M5 010 04 035	1,0	5,0	35,5	0,8/4,0	4,6	
3	KT M5 010 04 060	1,0	5,0	60,5	0,8/4,0	9,1	
4	KT M5 015 04 035	1,5	5,25	35,75	1,0/4,0	4,7	
5	KT M5 015 04 060	1,5	5,25	60,75	1,0/4,0	9,2	
6	KT M5 020 04 036	2,0	5,5	36,0	1,2/4,0	4,8	
7	KT M5 020 04 061	2,0	8,5	61,0	1,2/4,0	8,8	
8	KT M5 030 04 036	3,0	9,0	36,5	1,8/4,0	4,7	
9	KT M5 030 04 061	3,0	11,5	61,5	1,8 / 4,0	8,9	
10	KT M5 005 04 035	0,5	2,75/4,75	35,25	0,3/1,0/4,0	4,7	

NOTE: Peg mounted balls from $\varnothing$ 0,5 mm. $\varnothing < 0,5$ mm brazed.

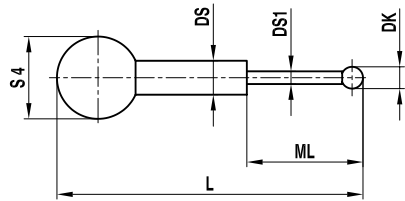


Styli for swiveling configurations

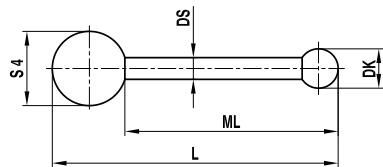
S4 steel ball, carbide stem, ruby ball

Pos.	itp Order No	Variant	DK	ML	L	DS1/DS	Weight (g)	Price/Piece (€)
1	KK M5 010 10 017	A	1,0	5,0	17,5	0,8/1,0	0,4	
2	KK M5 020 15 028	B	2,0	24,5	28,5	1,5	0,9	

NOTE: Peg mounted balls.



Variant A



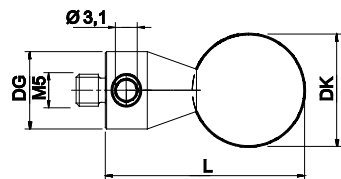
Variant B

Styli with ceramic ball

Carbide stem, ceramic ball

Pos.	itp Order No	DK	DG	L	Weight (g)	Price/Piece (€)
1	TI M5 150 11 028	15,0	11,0	28,0	15,5	
2	TI M5 160 11 028	16,0	11,0	28,0	6,0	
3	TI M5 180 11 028	18,0	11,0	28,0	6,0	
4	TI M5 200 11 033	20,0	11,0	33,0	6,0	
5	TI M5 300 11 043	30,0	11,0	43,00	6,0	

NOTE: Cup mounted balls.

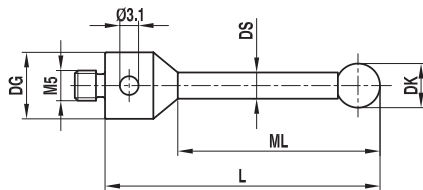


High rigidity styli

Base and stem high strength stainless steel, ruby/silicon nitride ball

Pos.	itp Ordner No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TI M5 050 11 050	5,0	40,0	11,0	50,0	3,5	8,8	
2	TI M5 050 11 053	5,0	43,0	11,0	53,0	3,5	9,5	
3	TI M5 050 11 075	5,0	65,0	11,0	75,0	3,5	10,7	
4	TI M5 080 11 063	8,0	50,5	11,0	63,5	6,0	18,0	
5	TI M5 080 11 075	8,0	62,0	11,0	75,0	6,0	21,2	
6	TI M5 080 11 100	8,0	87,0	11,0	100,0	6,0	27,0	
7	TI M5 080 11 114	8,0	101,5	11,0	114,5	6,0	29,1	
8	TI M5 S50 11 050	5,0	40,0	11,0	50,0	3,5	8,8	
9	TI M5 S50 11 053	5,0	43,0	11,0	53,0	3,5	9,0	
10	TI M5 S50 11 075	5,0	65,0	11,0	75,0	3,5	11,1	
11	TI M5 S80 11 063	8,0	50,5	11,0	63,5	6,0	17,8	
12	TI M5 S80 11 075	8,0	62,0	11,0	75,0	6,0	20,1	
13	TI M5 S80 11 100	8,0	87,0	11,0	100,0	6,0	26,7	
14	TI M5 S80 11 114	8,0	101,5	11,0	114,5	6,0	29,0	

NOTE: S = silicon nitride, all others ruby.



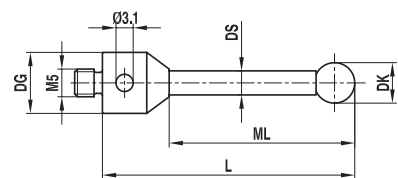
Carbide styli

Titanium base, carbide stem, ruby ball DG 11,0/19,0

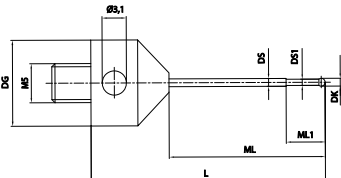
Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	TH M5 020 11 020	A	2,0	10,0	11,0	20,0	1,0	3,3	
2	TH M5 020 11 025	A	2,0	15,0	11,0	25,0	1,0	3,4	
3	TH M5 020 11 030	A	2,0	20,0	11,0	30,0	1,5	3,8	
4	TH M5 020 11 040	A	2,0	30,0	11,0	40,0	1,5	4,0	
5	TH M5 030 11 025	A	3,0	15,0	11,0	25,0	2,0	4,0	
6	TH M5 030 11 033	A	3,0	23,5	11,0	33,5	2,0	4,3	
7	TH M5 030 11 040	A	3,0	30,0	11,0	40,0	2,0	4,6	
8	TH M5 030 11 050	A	3,0	40,0	11,0	50,0	2,0	5,1	
9	TH M5 030 11 058	A	3,0	48,0	11,0	58,0	2,0	5,5	
10	TH M5 030 11 075	A	3,0	65,0	11,0	75,0	2,0	6,2	
11	TH M5 035 11 058	A	3,5	48,0	11,0	58,0	2,0	5,5	
12	TH M5 035 11 075	A	3,5	65,0	11,0	75,0	2,5	7,9	
13	TH M5 035 11 100	A	3,5	85,0	11,0	100,0	2,5	12,4	
14	TH M5 040 11 030	A	4,0	20,0	11,0	30,0	2,0	4,3	
15	TH M5 040 11 033	A	4,0	23,5	11,0	33,5	2,0	4,4	
16	TH M5 040 11 064	A	4,0	54,0	11,0	64,0	2,0	5,8	
17	TH M5 045 11 053	A	4,5	43,0	11,0	53,0	3,5	9,2	
18	TH M5 050 11 030	A	5,0	20,0	11,0	30,0	3,5	6,1	
19	TH M5 050 11 050	A	5,0	40,0	11,0	50,0	3,5	8,9	
20	TH M5 050 11 053	A	5,0	43,0	11,0	53,0	3,5	9,3	
21	TH M5 050 11 075	A	5,0	65,0	11,0	75,0	3,5	12,4	
22	TH M5 050 11 100	A	5,0	90,0	11,0	100,0	3,5	15,9	
23	TH M5 060 11 054	A	6,0	44,0	11,0	54,0	3,5	9,5	
24	TH M5 070 11 055	A	7,0	45,0	11,0	55,0	3,5	9,8	
25	TH M5 080 11 063	A	8,0	50,5	11,0	63,5	6,0	24,7	
26	TH M5 080 11 074	A	8,0	61,0	11,0	74,0	6,0	29,1	
27	TH M5 080 11 075	A	8,0	62,0	11,0	75,0	6,0	29,1	
28	TH M5 080 11 100	A	8,0	87,0	11,0	100,0	6,0	39,8	
29	TH M5 080 11 114	A	8,0	101,5	11,0	114,5	6,0	45,6	
30	TH M5 080 11 150	A	8,0	137,0	11,0	150,0	6,0	60,5	
31	TH M5 080 11 200	A	8,0	175,0	11,0	200,0	6,0	84,8	
32	TH M5 090 11 064	A	9,0	51,5	11,0	64,5	6,0	25,1	
33	TH M5 100 11 065	A	10,0	52,5	11,0	65,5	6,0	25,7	
34	TH M5 100 11 118	A	10,0	105,0	11,0	118,0	6,0	47,4	
35	TH M5 100 11 150	A	10,0	137,0	11,0	150,0	6,0	60,7	
36	TH M5 100 11 200	A	10,0	175,0	11,0	200,0	6,0	88,2	
37	TH M5 120 11 065	A	12,0	52,5	11,0	65,5	6,0	21,2	
38	TH M5 120 11 118	A	12,0	105,0	11,0	118,0	6,0	36,1	
39	TH M5 120 11 200	A	12,0	175,0	11,0	200,0	6,0	63,6	

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
40	TH M5 150 11 065	A	15,0	52,5	11,0	65,5	6,0	29,7	
41	TH M5 150 11 118	A	15,0	105,0	11,0	118,0	6,0	52,0	
42	TH M5 150 11 200	A	15,0	175,0	11,0	200,0	6,0	89,2	
43	TH M5 010 11 020	B	1,0	5,0 / 10,0	11,0	20,0	0,8 / 1,0	3,3	
44	TH M5 010 11 025	B	1,0	5,0 / 15,0	11,0	25,0	0,8 / 1,0	3,4	
45	TH M5 010 11 030	B	1,0	5,0 / 20,0	11,0	30,0	0,8 / 1,0	3,4	
46	TH M5 015 11 030	B	1,5	8,0 / 20,0	11,0	30,0	1,0 / 1,5	3,7	
47	TH M5 080 19 063	A	8,0	41,5	19,0	63,5	6,0	35,9	
48	TH M5 080 19 114	A	8,0	92,5	19,0	114,5	6,0	56,8	
49	TH M5 090 19 064	A	9,0	42,5	19,0	64,5	6,0	37,5	
50	TH M5 100 19 065	A	10,0	43,5	19,0	65,5	6,0	36,5	

NOTE: Peg mounted balls. Ø > 12,00 mm = in ceramic



Variant A



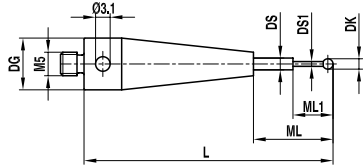
Variant B

Titanium base, carbide stem, ruby/silicon nitride/zirconium oxide ball, DG 10,0

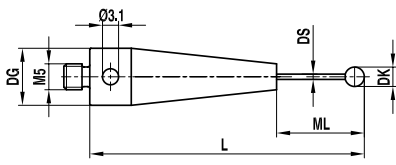
Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	EAL/B	Weight (g)	Price/Piece (€)
1	TH M5 007 10 020	B	0,7	5,35	10,0	20,35	0,5	5,0	3,7	
2	TH M5 007 10 030	B	0,7	5,35	10,0	30,35	0,5	5,0	5,2	
3	TH M5 007 10 050	B	0,7	5,35	10,0	50,35	0,5	5,0	9,4	
4	TH M5 007 10 075	B	0,7	5,35	10,0	75,35	0,5	5,0	14,1	
5	TH M5 010 10 020	B	1,0	5,5	10,0	20,5	0,7	5,0	3,7	
6	TH M5 010 10 030	B	1,0	5,5	10,0	30,5	0,7	5,0	5,2	
7	TH M5 010 10 050	B	1,0	5,5	10,0	50,5	0,7	5,0	9,4	
8	TH M5 010 10 075	B	1,0	5,5	10,0	75,5	0,7	5,0	14,1	
9	TH M5 015 10 020	C	1,5	11,75	10,0	20,75	1,0	11,0	2,7	
10	TH M5 015 10 030	B	1,5	12,75	10,0	30,75	1,0	12,0	4,3	
11	TH M5 015 10 040	B	1,5	22,75	10,0	40,75	1,0	20,0	4,4	
12	TH M5 015 10 050	B	1,5	5,75	10,0	50,75	1,0	5,0	9,4	
13	TH M5 015 10 075	B	1,5	5,75	10,0	75,75	1,0	5,0	14,3	
14	TH M5 020 10 021	C	2,0	12,0	10,0	21,0	1,0	11,0	2,7	
15	TH M5 020 10 031	C	2,0	22,0	10,0	31,0	1,0	21,0	2,8	
16	TH M5 020 10 041	C	2,0	32,0	10,0	41,0	1,0	31,0	2,9	
17	TH M5 020 10 051	C	2,0	42,0	10,0	51,0	1,0	41,0	3,0	
18	TH M5 020 45 051	B	2,0	6,0	10,0	51,0	1,0	5,0	9,4	
19	TH M5 025 10 021	C	2,5	12,25	10,0	21,25	1,5	11,0	2,9	
20	TH M5 025 10 031	C	2,5	22,25	10,0	31,25	1,5	21,0	3,1	
21	TH M5 025 10 041	C	2,5	32,25	10,0	41,25	1,5	31,0	3,4	
22	TH M5 025 10 051	B	2,5	6,255	10,0	51,25	1,5	5,0	9,6	
23	TH M5 030 10 031	C	3,0	22,5	10,0	31,5	2,0	55,0	3,6	
24	TH M5 030 10 101	B	3,0	56,5	10,0	101,5	1,5	55,0	10,8	
25	TH M5 002 10 020	A	0,2	2,3/5,15	10,0	20,15	0,18/1,0	2,2	3,7	
26	TH M5 0025 10 020	A	0,25	2,3/5,15	10,0	20,15	0,18/1,0	2,2	3,7	
27	TH M5 003 10 020	A	0,3	3,15/5,15	10,0	20,15	0,2/0,7	3,0	3,7	
28	TH M5 003 10 030	A	0,3	3,15/5,15	10,0	30,15	0,2/0,7	3,0	5,2	
29	TH M5 003 10 050	A	0,3	3,15/5,15	10,0	50,15	0,2/0,7	3,0	9,3	
30	TH M5 003 10 075	A	0,3	3,15/5,15	10,0	75,15	0,2/0,7	3,0	14,1	
31	TH M5 005 10 020	A	0,5	4,25/5,25	10,0	20,25	0,4/0,7	4,0	3,7	
32	TH M5 005 10 030	A	0,5	4,25/5,25	10,0	30,25	0,4/0,7	4,0	9,0	

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	EAL/B	Weight (g)	Price/Piece (€)
33	TH M5 005 10 050	A	0,5	4,25/5,25	10,0	50,25	0,4/0,7	4,0	9,4	
34	TH M5 005 10 075	A	0,5	4,25/5,25	10,0	75,25	0,4/0,7	4,0	14,1	
35	TH M5 S20 10 021	C	2,0	12,0	10,0	21,0	1,0	11,0	2,7	
36	TH M5 Z20 10 021	C	2,0	12,0	10,0	21,0	1,0	11,0	2,7	

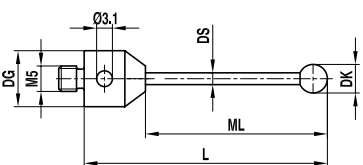
NOTE: Peg mounted balls, S = silicon nitride, Z = zirconium oxide, all others ruby.



Variant A



Variant B

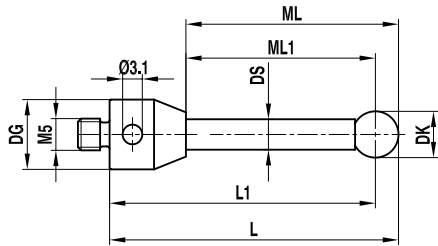


Variant C

Titanium base, carbide stem, ruby ball, DG 12,0

Pos.	itp Order No	DK	ML1/ML	DG	L/L1	DS	Weight (g)	Price/Piece (€)
1	TH M5 015 12 028	1,5	7,0/7,75	12,0	28,75/28,0	1,0	10,2	
2	TH M5 015 12 040	1,5	19,0/19,75	12,0	40,75/40,0	1,0	10,0	
3	TH M5 020 12 030	2,0	18,5/19,5	12,0	31,0/30,0	1,5	7,3	
4	TH M5 020 12 035	2,0	23,5/24,5	12,0	36,0/35,0	1,5	7,5	
5	TH M5 020 12 041	2,0	30,0/31,0	12,0	42,0/41,0	1,5	7,6	
6	TH M5 020 12 060	2,0	39,5/40,5	12,0	61,0/60,0	1,5	11,6	
7	TH M5 030 12 035	3,0	24,0/25,5	12,0	36,5/35,0	2,0	8,2	
8	TH M5 030 12 050	3,0	39,0/40,5	12,0	51,5/50,0	2,0	8,8	
9	TH M5 035 12 091	3,5	78,0/79,75	12,0	92,75/91,0	3,0	16,1	
10	TH M5 040 12 055	4,0	42,0/44,0	12,0	57,0/55,0	3,0	12,5	
11	TH M5 040 12 080	4,0	69,0/71,0	12,0	82,0/80,0	2,5	12,1	
12	TH M5 050 12 060	5,0	49,0/51,5	12,0	62,5/60,0	3,5	14,1	
13	TH M5 050 12 080	5,0	69,0/71,5	12,0	82,5/80,0	3,5	17,0	
14	TH M5 080 12 068	8,0	50,0/54,0	12,0	72,0/68,0	3,0	16,4	
15	TH M5 080 12 090	8,0	74,0/78,0	12,0	94,0/90,0	6,0	41,8	
16	TH M5 080 12 125	8,0	109,0/113,0	12,0	129,0/125,0	6,0	59,0	
17	TH M5 080 12 176	8,0	160,0/164,0	12,0	180,0/176,0	6,0	76,8	

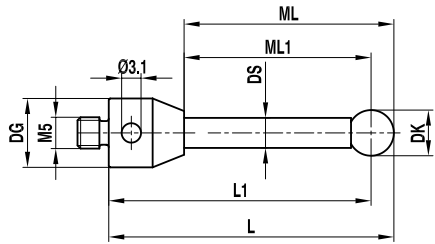
NOTE: Peg mounted balls.



Titanium base, carbide stem, silicon nitride ball, DG 12,0

Pos.	itp Order No	DK	ML1/ML	DG	L/L1	DS	Weight (g)	Price/Piece (€)
1	TH M5 S15 12 028	1,5	7,0/7,75	12,0	28,75/28,0	1,0	10,3	
2	TH M5 S15 12 040	1,5	19,0/19,75	12,0	40,75/40	1,0	10,3	
3	TH M5 S20 12 030	2,0	18,5/19,5	12,0	31,0/30,0	1,5	7,3	
4	TH M5 S20 12 035	2,0	23,5/24,5	12,0	36,0/35,0	1,5	7,8	
5	TH M5 S20 12 041	2,0	30,0/31,0	12,0	42,0/41,0	1,5	7,6	
6	TH M5 S20 12 060	2,0	39,5/40,5	12,0	61,0/60,0	1,5	11,6	
7	TH M5 S30 12 035	3,0	24,0/25,5	12,0	36,5/35,0	2,0	8,1	
8	TH M5 S30 12 050	3,0	39,0/40,5	12,0	51,5/50,0	2,0	8,8	
9	TH M5 S35 12 091	3,5	78,0/79,75	12,0	92,75/91,0	3,0	16,2	
10	TH M5 S40 12 055	4,0	42,0/44,0	12,0	57,0/55,0	3,0	13,0	
11	TH M5 S40 12 080	4,0	69,0/71,0	12,0	82,0/80,0	2,5	12,1	
12	TH M5 S50 12 060	5,0	49,0/51,5	12,0	62,5/60,0	3,5	14,8	
13	TH M5 S50 12 080	5,0	69,0/71,5	12,0	82,5/80,0	3,5	17,0	
14	TH M5 S80 12 068	8,0	50,0/54,0	12,0	72,0/68,0	3,0	15,9	
15	TH M5 S80 12 090	8,0	74,0/78,0	12,0	94,0/90,0	6,0	32,2	
16	TH M5 S80 12 125	8,0	109,0/113,0	12,0	129,0/125,0	6,0	58,0	
17	TH M5 S80 12 176	8,0	160,0/164,0	12,0	180,0/176,0	6,0	80,0	

NOTE: Peg mounted balls.

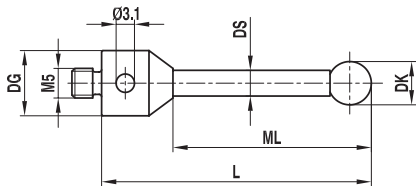


Carbide styli for ScanMax

Titanium base, carbide stem and ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TH M5 H30 11 033	3,0	23,5	11,0	33,5	2,0	4,5	
2	TH M5 H50 11 105	5,0	95,0	11,0	105,0	3,5	17,2	
3	TH M5 H80 11 063	8,0	50,5	11,0	63,5	6,0	28,8	

NOTE: Peg mounted balls.

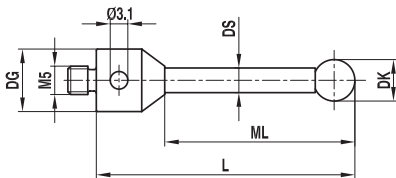


ULTRA Scanning styli

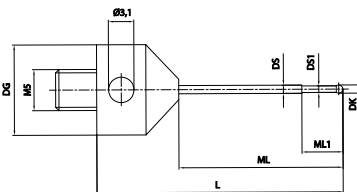
Titanium base, carbide stem, diamond-coated ball

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	TH M5 DC15 11 040	A	1,5	30,0	11,0	40,0	1,0	3,6	
2	TH M5 DC20 11 030	A	2,0	20,0	11,0	30,0	1,5	3,7	
3	TH M5 DC20 11 040	A	2,0	30,0	11,0	40,0	1,5	4,0	
4	TH M5 DC30 11 033	A	3,0	23,5	11,0	33,5	2,0	4,3	
5	TH M5 DC30 11 050	A	3,0	40,0	11,0	50,0	2,0	5,1	
6	TH M5 DC30 11 058	A	3,0	48,0	11,0	58,0	2,0	5,4	
7	TH M5 DC40 11 064	A	4,0	54,0	11,0	64,0	2,0	5,7	
8	TH M5 DC50 11 050	A	5,0	40,0	11,0	50,0	3,5	8,9	
9	TH M5 DC50 11 053	A	5,0	43,0	11,0	53,0	3,5	9,2	
10	TH M5 DC50 11 075	A	5,0	65,0	11,0	75,0	3,5	12,4	
11	TH M5 DC80 11 063	A	8,0	50,5	11,0	63,5	6,0	18,8	
12	TH M5 DC80 11 114	A	8,0	101,5	11,0	114,5	6,0	33,5	
13	TH M5 DC100 11 065	A	10,0	52,5	11,0	65,5	6,0	19,6	
14	TH M5 DC100 11 118	A	10,0	105,0	11,0	118,0	6,0	35,0	
15	TH M5 DC10 11 030	B	1,0	5,0/20,0	11,0	30,0	0,8/1,0	3,4	
16	TH M5 DC15 11 030	B	1,5	8,0/20,0	11,0	30,0	1,0/1,5	3,7	

NOTE: Balls actively brazed to the stem.



Variant A



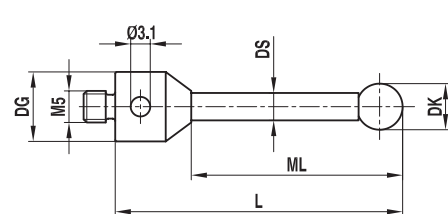
Variant B

Carbide styli DG 11,0

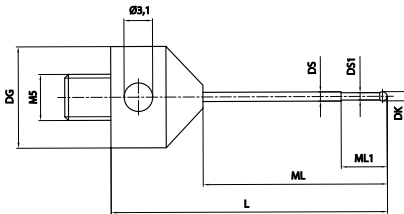
Titanium base, carbide stem, silicon nitride, peg mounted

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	TH M5 S20 11 020	A	2,0	10,0	11,0	20,0	1,0	3,3	
2	TH M5 S20 11 025	A	2,0	15,0	11,0	25,0	1,0	3,4	
3	TH M5 S20 11 030	A	2,0	20,0	11,0	30,0	1,5	3,7	
4	TH M5 S20 11 040	A	2,0	30,0	11,0	40,0	1,5	4,0	
5	TH M5 S30 11 025	A	3,0	15,0	11,0	25,0	2,0	3,9	
6	TH M5 S30 11 033	A	3,0	23,5	11,0	33,5	2,0	4,3	
7	TH M5 S30 11 050	A	3,0	40,0	11,0	50,0	2,0	5,1	
8	TH M5 S30 11 058	A	3,0	48,0	11,0	58,0	2,0	5,4	
9	TH M5 S40 11 033	A	4,0	23,5	11,0	33,5	2,0	4,3	
10	TH M5 S40 11 064	A	4,0	54,0	11,0	64,0	2,0	5,7	
11	TH M5 S50 11 030	A	5,0	20,0	11,0	30,0	3,5	6,1	
12	TH M5 S50 11 050	A	5,0	40,0	11,0	50,0	3,5	8,9	
13	TH M5 S50 11 053	A	5,0	43,0	11,0	53,0	3,5	9,2	
14	TH M5 S50 11 075	A	5,0	65,0	11,0	75,0	3,5	12,4	
15	TH M5 S50 11 100	A	5,0	90,0	11,0	100,0	3,5	15,8	
16	TH M5 S60 11 054	A	6,0	44,0	11,0	54,0	3,5	9,4	
17	TH M5 S10 11 020	B	1,0	5,0/10,0	11,0	20,0	0,8/1,0	3,3	
18	TH M5 S10 11 025	B	1,0	5,0/15,0	11,0	25,0	0,8/1,0	3,3	
19	TH M5 S10 11 030	B	1,0	5,0/20,0	11,0	30,0	0,8/1,0	3,4	
20	TH M5 S15 11 030	B	1,5	8,0/20,0	11,0	30,0	1,0/1,5	3,7	

NOTE: Peg mounted balls for higher strength requirements.



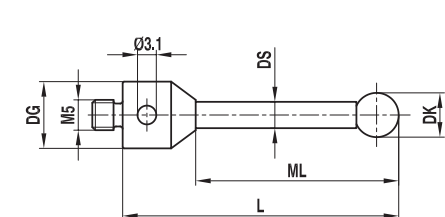
Variant A



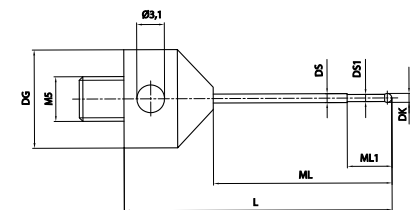
Variant B

Titanium base, carbide stem, silicon nitride ball, cup mounted

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	TH M5 S20 11 020/K	A	2,0	10,0	11,0	20,0	1,0	3,3	
2	TH M5 S20 11 025/K	A	2,0	15,0	11,0	25,0	1,0	3,4	
3	TH M5 S20 11 030/K	A	2,0	20,0	11,0	30,0	1,5	3,7	
4	TH M5 S20 11 040/K	A	2,0	30,0	11,0	40,0	1,5	4,0	
5	TH M5 S30 11 025/K	A	3,0	15,0	11,0	25,0	2,0	3,9	
6	TH M5 S30 11 033/K	A	3,0	23,5	11,0	33,5	2,0	4,3	
7	TH M5 S30 11 050/K	A	3,0	40,0	11,0	50,0	2,0	5,0	
8	TH M5 S30 11 058/K	A	3,0	48,0	11,0	58,0	2,0	5,4	
9	TH M5 S40 11 033/K	A	4,0	23,5	11,0	33,5	2,0	4,3	
10	TH M5 S40 11 064/K	A	4,0	54,0	11,0	64,0	2,0	5,7	
11	TH M5 S50 11 030/K	A	5,0	20,0	11,0	30,0	3,5	5,3	
12	TH M5 S50 11 050/K	A	5,0	40,0	11,0	50,0	3,5	4,0	
13	TH M5 S50 11 053/K	A	5,0	43,0	11,0	53,0	3,5	7,7	
14	TH M5 S50 11 075/K	A	5,0	65,0	11,0	75,0	3,5	9,9	
15	TH M5 S50 11 100/K	A	5,0	90,0	11,0	100,0	3,5	12,5	
16	TH M5 S60 11 054/K	A	6,0	44,0	11,0	54,0	3,5	9,8	
17	TH M5 S70 11 055/K	A	7,0	45,0	11,0	55,0	3,5	8,1	
18	TH M5 S80 11 063/K	A	8,0	50,5	11,0	63,5	6,0	18,8	
19	TH M5 S80 11 075/K	A	8,0	62,0	11,0	75,0	6,0	22,1	
20	TH M5 S80 11 100/K	A	8,0	87,0	11,0	100,0	6,0	30,0	
21	TH M5 S80 11 114/K	A	8,0	101,5	11,0	114,5	6,0	33,5	
22	TH M5 S90 11 064/K	A	9,0	51,5	11,0	64,5	6,0	19,6	
23	TH M5 S100 11 065/K	A	10,0	52,5	11,0	65,5	6,0	19,6	
24	TH M5 S100 11 118/K	A	10,0	105,0	11,0	118,0	6,0	35,0	
25	TH M5 S100 11 150/K	A	10,0	135,0	11,0	150,0	6,0	44,3	
26	TH M5 S10 11 020/K	B	1,0	5,0/10,0	11,0	20,0	0,8/1,0	3,5	
27	TH M5 S10 11 025/K	B	1,0	5,0/15,0	11,0	25,0	0,8/1,0	3,4	
28	TH M5 S10 11 030/K	B	1,0	5,0/20,0	11,0	30,0	0,8/1,0	3,4	
29	TH M5 S15 11 030/K	B	1,5	8,0/20,0	11,0	30,0	1,0/1,5	3,6	



Variant A

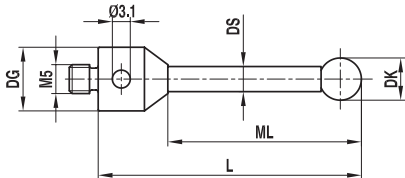


Variant B

Reference styli (red dot)

Base and stem high-strength stainless steel, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TH M5 R80 11 063	8,0	50,5	11,0	63,5	6,0	18,0	



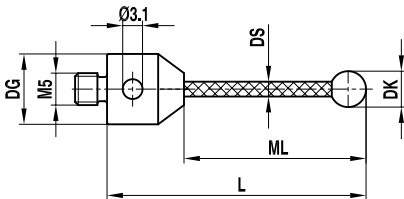
Carbon fiber styli DG 10,0

Titanium base, thermostable carbon fiber stem, ruby/silicon nitride/zirconium oxide ball

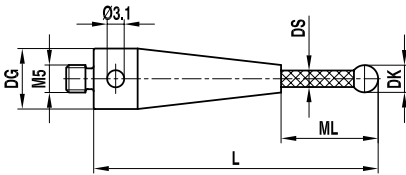
Pos.	itp Order No	Variant	DK	ML	DG D	L	DS	Weight (g)	Price/Piece (€)
1	TC M5 025 10 051	A	2,5	42,25	10,0	51,25	2,0	2,7	
2	TC M5 030 10 021	A	3,0	12,5	10,0	21,5	2,0	2,6	
3	TC M5 030 10 031	A	3,0	22,5	10,0	31,5	2,0	2,6	
4	TC M5 030 10 041	A	3,0	32,5	10,0	41,5	2,0	2,7	
5	TC M5 030 10 051	A	3,0	42,5	10,0	51,5	2,0	2,7	
6	TC M5 030 10 101	B	3,0	21,5	10,0	101,5	2,0	14,3	
7	TC M5 040 10 022	A	4,0	13,0	10,0	22,0	2,0	2,6	
8	TC M5 040 10 032	A	4,0	23,0	10,0	32,0	2,0	2,7	
9	TC M5 040 10 052	A	4,0	43,0	10,0	52,0	2,0	2,8	
10	TC M5 040 10 077	A	4,0	68,0	10,0	77,0	3,0	3,4	
11	TC M5 040 50 102	B	4,0	52,0	10,0	102,0	3,0	10,7	
12	TC M5 040 80 102	B	4,0	22,0	10,0	102,0	2,0	14,4	
13	TC M5 050 10 022	A	5,0	13,5	10,0	22,5	3,0	2,8	
14	TC M5 050 10 032	A	5,0	23,5	10,0	32,5	3,0	3,0	
15	TC M5 050 10 052	A	5,0	43,5	10,0	52,5	3,0	3,2	
16	TC M5 050 10 077	A	5,0	68,5	10,0	77,5	3,0	3,5	
17	TC M5 050 10 102	A	5,0	93,5	10,0	102,5	3,0	3,8	
18	TC M5 050 50 102	B	5,0	52,5	10,0	102,5	3,0	10,7	
19	TC M5 060 10 053	A	6,0	42,0	10,0	53,0	4,0	4,1	

Pos.	itp Order No	Variant	DK	ML	DG D	L	DS	Weight (g)	Price/Piece (€)
20	TC M5 060 10 078	A	6,0	67,0	10,0	78,0	4,0	4,6	
21	TC M5 060 10 103	A	6,0	92,0	10,0	103,0	4,0	5,2	
22	TC M5 060 50 103	B	6,0	53,0	10,0	103,0	4,0	12,22	
23	TC M5 060 10 153	A	6,0	138,0	10,0	153,0	4,0	7,0	
24	TC M5 060 10 203	A	6,0	188,0	10,0	203,0	4,0	7,8	
25	TC M5 060 10 303	A	6,0	288,0	10,0	303,0	4,0	10,0	
26	TC M5 080 10 054	A	8,0	41,0	10,0	54,0	6,0	5,9	
27	TC M5 080 10 079	A	8,0	66,0	10,0	79,0	6,0	7,2	
28	TC M5 080 10 104	A	8,0	91,0	10,0	104,0	6,0	8,3	
29	TC M5 080 50 104	B	8,0	54,0	10,0	104,0	6,0	15,6	
30	TC M5 080 10 154	A	8,0	135,0	10,0	154,0	6,0	11,6	
31	TC M5 080 10 204	A	8,0	185,0	10,0	204,0	6,0	14,2	
32	TC M5 080 10 304	A	8,0	285,0	10,0	304,0	6,0	19,2	
33	TC M5 100 10 055	A	10,0	42,0	10,0	55,0	6,0	6,9	
34	TC M5 100 10 080	A	10,0	67,0	10,0	80,0	6,0	8,1	
35	TC M5 100 10 105	A	10,0	92,0	10,0	105,0	6,0	9,2	
36	TC M5 100 50 105	B	10,0	55,0	10,0	105,0	6,0	16,6	
37	TC M5 100 10 155	A	10,0	136,0	10,0	155,0	6,0	12,6	
38	TC M5 100 10 205	A	10,0	186,0	10,0	205,0	6,0	15,1	
39	TC M5 100 10 305	A	10,0	286,0	10,0	305,0	6,0	20,3	
40	TC M5 S40 10 022	A	4,0	13,0	10,0	22,0	2,0	2,7	
41	TC M5 S60 10 053	A	6,0	42,0	10,0	53,0	4,0	4,0	
42	TC M5 S60 50 103	B	6,0	53,0	10,0	103,0	4,0	12,0	
43	TC M5 Z40 10 022	A	4,0	13,0	10,0	22,0	2,0	2,8	
44	TC M5 Z60 10 053	A	6,0	42,0	10,0	53,0	4,0	4,3	
45	TC M5 Z60 50 103	B	6,0	53,0	10,0	103,0	4,0	12,4	

NOTE: Peg mounted balls. Thermostable carbon fiber E-Modul about 450 GPa. S = silicon nitride, Z = zirconium oxide, all others ruby.



Variant A



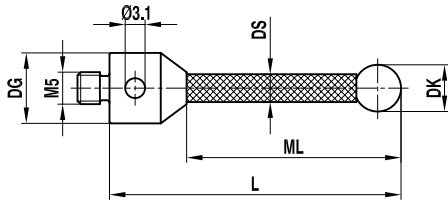
Variant B

Carbon fiber styli DG 11,0

Titanium base, thermostable carbon fiber stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M5 030 11 025	3,0	15,0	11,0	25,0	2,0	3,3	
2	TC M5 030 11 033	3,0	23,5	11,0	33,5	2,0	3,3	
3	TC M5 030 11 050	3,0	40,0	11,0	50,0	2,0	3,4	
4	TC M5 030 11 058	3,0	48,0	11,0	58,0	2,0	3,5	
5	TC M5 040 11 033	4,0	23,5	11,0	33,5	2,0	3,4	
6	TC M5 040 11 064	4,0	54,0	11,0	64,0	2,0	3,5	
7	TC M5 050 11 050	5,0	40,0	11,0	50,0	3,5	4,0	
8	TC M5 050 11 053	5,0	43,0	11,0	53,0	3,5	4,4	
9	TC M5 050 11 075	5,0	65,0	11,0	75,0	3,5	4,3	
10	TC M5 050 11 100	5,0	90,0	11,0	100,0	3,5	4,9	
11	TC M5 060 11 054	6,0	44,0	11,0	54,0	3,5	4,6	
12	TC M5 070 11 055	7,0	45,0	11,0	55,0	3,5	4,9	
13	TC M5 080 11 063	8,0	50,5	11,0	63,5	6,0	6,9	
14	TC M5 080 11 075	8,0	62,0	11,0	75,0	6,0	7,2	
15	TC M5 080 11 100	8,0	87,0	11,0	100,0	6,0	8,8	
16	TC M5 080 11 114	8,0	101,5	11,0	114,5	6,0	9,6	
17	TC M5 080 11 150	8,0	137,0	11,0	150,0	6,0	11,4	
18	TC M5 080 11 200	8,0	187,0	11,0	200,0	6,0	13,4	
19	TC M5 090 11 064	9,0	51,5	11,0	64,5	6,0	7,4	
20	TC M5 100 11 065	10,0	52,5	11,0	65,5	6,0	7,7	
21	TC M5 100 11 118	10,0	105,0	11,0	118,0	6,0	10,7	
22	TC M5 100 11 150	10,0	137,0	11,0	150,0	6,0	12,3	
23	TC M5 100 11 200	10,0	187,0	11,0	200,0	6,0	13,6	

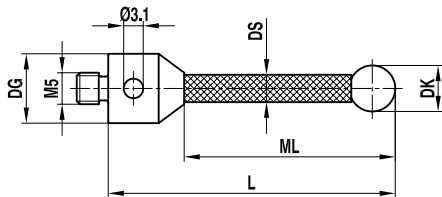
NOTE: Peg mounted balls. Thermostable carbon fiber E-Modul about 450 GPa.



Titanium base, thermostable carbon fiber stem, silicon nitride ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	TC M5 S30 11 025	3,0	15,0	11,0	25,0	2,0	4,0	
2	TC M5 S30 11 033	3,0	23,5	11,0	33,5	2,0	4,2	
3	TC M5 S30 11 050	3,0	40,0	11,0	50,0	2,0	3,4	
4	TC M5 S30 11 058	3,0	48,0	11,0	58,0	2,0	3,4	
5	TC M5 S40 11 033	4,0	23,5	11,0	33,5	2,0	4,2	
6	TC M5 S40 11 064	4,0	54,0	11,0	64,0	2,0	3,5	
7	TC M5 S50 11 050	5,0	40,0	11,0	50,0	3,5	3,9	
8	TC M5 S50 11 053	5,0	43,0	11,0	53,0	3,5	3,9	
9	TC M5 S50 11 075	5,0	65,0	11,0	75,0	3,5	4,3	
10	TC M5 S50 11 100	5,0	90,0	11,0	100,0	3,5	4,8	
11	TC M5 S60 11 054	6,0	44,0	11,0	54,0	3,5	4,2	
12	TC M5 S70 11 055	7,0	45,0	11,0	55,0	3,5	4,4	
13	TC M5 S80 11 063	8,0	50,5	11,0	63,5	6,0	6,9	
14	TC M5 S80 11 075	8,0	62,0	11,0	75,0	6,0	7,4	
15	TC M5 S80 11 100	8,0	87,0	11,0	100,0	6,0	8,2	
16	TC M5 S80 11 114	8,0	101,5	11,0	114,5	6,0	9,4	
17	TC M5 S80 11 150	8,0	137,0	11,0	150,0	6,0	11,2	
18	TC M5 S80 11 200	8,0	187,0	11,0	200,0	6,0	13,7	
19	TC M5 S90 11 064	9,0	51,5	11,0	64,5	6,0	7,2	
20	TC M5 S100 11 065	10,0	52,5	11,0	65,5	6,0	7,5	
21	TC M5 S100 11 118	10,0	105,0	11,0	118,0	6,0	10,2	
22	TC M5 S100 11 150	10,0	137,0	11,0	150,0	6,0	11,9	
23	TC M5 S100 11 200	10,0	187,0	11,0	200,0	6,0	14,4	

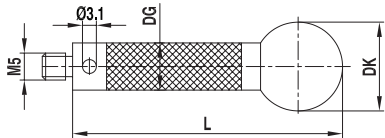
NOTE: Peg mounted balls until Ø 6,0 mm larger Ø cup mounted balls. Thermostable carbon fiber E-Modul about 450 GPa.



Titanium base, thermostable carbon fiber stem, ceramic ball

Pos.	itp Order No	DK	DG	L	Weight (g)	Price/Piece (€)
1	TC M5 150 11 200	15,0	11,0	200,0	28,5	
2	TC M5 150 11 300	15,0	11,0	300,0	37,1	
3	TC M5 150 11 400	15,0	11,0	400,0	45,7	
4	TC M5 150 11 500	15,0	11,0	500,0	54,3	
5	TC M5 180 11 200	18,0	11,0	200,0	33,5	
6	TC M5 180 11 300	18,0	11,0	300,0	42,1	
7	TC M5 180 11 400	18,0	11,0	400,0	50,7	
8	TC M5 180 11 500	18,0	11,0	500,0	59,3	
9	TC M5 200 11 200	20,0	11,0	200,0	37,8	
10	TC M5 200 11 300	20,0	11,0	300,0	47,1	
11	TC M5 200 11 400	20,0	11,0	400,0	56,4	
12	TC M5 200 11 500	20,0	11,0	500,0	65,7	
13	TC M5 250 11 200	25,0	11,0	200,0	53,7	
14	TC M5 250 11 300	25,0	11,0	300,0	63,8	
15	TC M5 250 11 400	25,0	11,0	400,0	73,1	
16	TC M5 250 11 500	25,0	11,0	500,0	80,0	

NOTE: Cup mounted balls brazed. Thermostable carbon fiber E-Modul about 450 GPa.

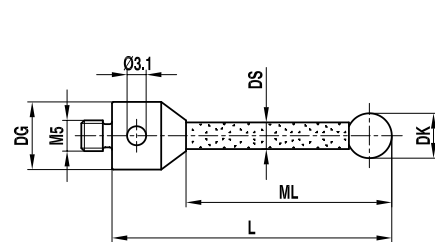


Ceramic styli

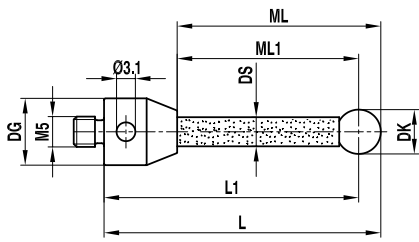
Titanium base, ceramic stem, ruby/silicon nitride ball

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L/L1	DS1/DS	Weight (g)	Price/Piece (€)
1	TK M5 050 11 053	A	5,0	43,0	11,0	53,0	3,5	4,4	
2	TK M5 060 11 054	A	6,0	44,0	11,0	54,0	3,5	4,6	
3	TK M5 070 11 055	A	7,0	45,0	11,0	55,0	3,5	4,9	
4	TK M5 080 11 063	A	8,0	50,5	11,0	63,5	6,0	8,5	
5	TK M5 080 11 114	A	8,0	101,5	11,0	114,5	6,0	12,9	
6	TK M5 090 11 064	A	9,0	51,5	11,0	64,5	6,0	7,9	
7	TK M5 100 11 065	A	10,0	52,5	11,0	65,5	6,0	9,6	
8	TK M5 080 19 063	A	8,0	41,5	19,0	63,5	6,0	20,7	
9	TK M5 080 19 114	A	8,0	92,5	19,0	114,5	6,0	24,6	
10	TK M5 090 19 064	A	9,0	42,5	19,0	64,5	6,0	21,1	
11	TK M5 100 19 065	A	10,0	43,5	19,0	65,5	6,0	23,0	
12	TK M5 080 12 090	B	8,0	74,0/78,0	12,0	94,0/90,0	6,0	15,7	
13	TK M5 080 12 125	B	8,0	109,0/113,0	12,0	129,0/125,0	6,0	18,8	
14	TK M5 150 12 090	B	15,0	74,0/81,5	12,0	97,5/90,0	6,0	23,7	
15	TK M5 S50 11 053	A	5,0	43,0	11,0	53,0	3,5	4,3	
16	TK M5 S60 11 054	A	6,0	44,0	11,0	54,0	3,5	4,7	
17	TK M5 S70 11 055	A	7,0	45,0	11,0	55,0	3,5	4,8	
18	TK M5 S80 11 063	A	8,0	50,5	11,0	63,5	6,0	8,4	
19	TK M5 S80 11 114	A	8,0	101,5	11,0	114,5	6,0	12,7	
20	TK M5 S90 11 064	A	9,0	51,5	11,0	64,5	6,0	8,8	
21	TK M5 S100 11 065	A	10,0	52,5	11,0	65,5	6,0	9,2	
22	TK M5 S80 12 090	B	8,0	74,0/78,0	12,0	94,0/90,0	6,0	15,7	
23	TK M5 S80 12 125	B	8,0	109,0/113,0	12,0	129,0/125,0	6,0	21,9	

NOTE: Cup mounted balls. S = silicon nitride, all others ruby.



Variant A



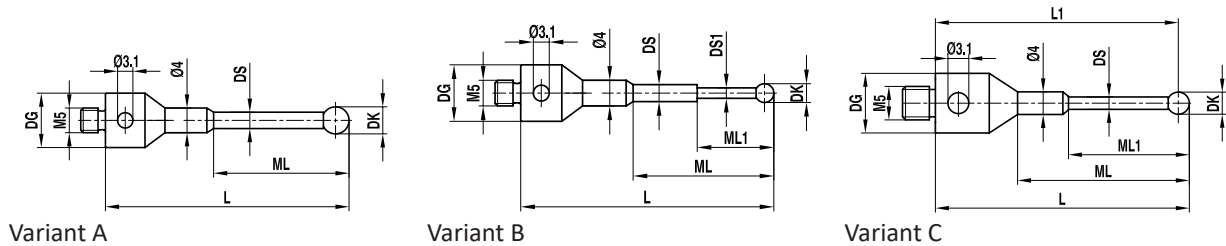
Variant B

Micro ball styli

Stainless steel base, carbide stem, ruby ball

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L/L1	DS1/DS	Weight (g)	Price/Piece (€)
1	FH M5 013 11 032	A	1,35	12,0	11,0	32,0	1,0	6,6	
2	FH M5 013 11 044	A	1,35	19,0	11,0	44,0	1,0	7,2	
3	FH M5 015 11 032	A	1,5	12,0	11,0	32,0	1,0	6,7	
4	FH M5 015 11 044	A	1,5	19,0	11,0	44,0	1,0	7,2	
5	FH M5 020 11 032	A	2,0	12,0	11,0	32,0	1,5	6,7	
6	FH M5 020 11 044	A	2,0	19,0	11,0	44,0	1,5	7,6	
7	FH M5 020 11 058	A	2,0	33,0	11,0	58,0	1,5	7,9	
8	FH M5 025 11 032	A	2,5	12,0	11,0	32,0	1,5	6,8	
9	FH M5 025 11 044	A	2,5	19,0	11,0	44,0	1,5	7,5	
10	FH M5 025 11 058	A	2,5	33,0	11,0	58,0	1,5	8,0	
11	FH M5 002 11 032	B	0,2	2,3/12,0	11,0	32,0	0,18/1,0	6,5	
12	FH M5 0025 11 032	B	0,25	2,3/12,0	11,0	32,0	0,18/1,0	6,6	
13	FH M5 003 11 032	B	0,3	2,3/12,0	11,0	32,0	0,2/1,0	6,6	
14	FH M5 005 11 032	B	0,5	2,5/12,0	11,0	32,0	0,3/1,0	6,6	
15	FH M5 006 11 032	B	0,6	4,6/12,0	11,0	32,0	0,4/1,0	6,6	
16	FH M5 008 11 032	B	0,8	4,8/12,0	11,0	32,0	0,6/1,0	6,5	
17	FH M5 010 11 032	B	1,0	5,0/12,0	11,0	32,0	0,8/1,0	6,5	
18	FH M5 020 12 066	C	2,0	16,0/57,0	12,0	67,0/66,0	1,5	11,1	

NOTE: Peg mounted balls, Ø 0,3 brazed.

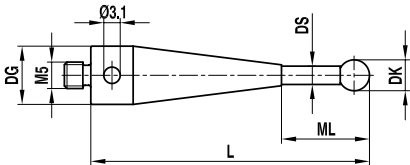


Micro ball styli

Titanium base, carbide stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	FT M5 010 11 055	1,0	5,0	11,0	55,0	0,8	10,2	
2	FT M5 015 11 055	1,5	5,0	11,0	55,0	1,0	10,2	
3	FT M5 020 11 055	2,0	5,0	11,0	55,0	1,5	12,0	
4	FT M5 025 11 055	2,5	5,0	11,0	55,0	2,0	12,2	
5	FT M5 035 11 055	3,5	10,0	11,0	55,0	2,5	11,3	

NOTE: Peg mounted balls.

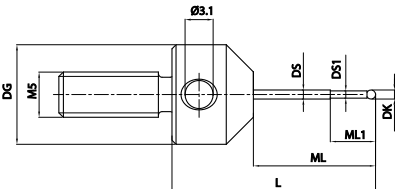
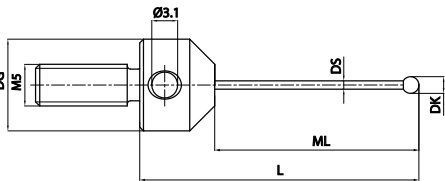


Long thread styli, thread length 12,5 mm

Stainless steel base, carbide stem, ruby ball

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	LH M5 013 11 032	A	1,35	23,85	11,0	32,85	1,0	6,7	
2	LH M5 015 11 033	A	1,5	24,0	11,0	33,0	1,0	6,8	
3	LH M5 020 11 033	A	2,0	24,5	11,0	33,5	1,5	7,1	
4	LH M5 025 11 034	A	2,5	25,0	11,0	34,0	1,5	7,1	
5	LH M5 030 11 025	A	3,0	16,5	11,0	25,5	2,0	7,2	
6	LH M5 050 11 034	A	5,0	25,5	11,0	34,5	3,5	9,7	
7	LH M5 003 11 021	B	0,3	2,3/12,8	11,0	21,8	0,2/1,0	6,6	
8	LH M5 005 11 022	B	0,5	2,5/13,0	11,0	22,0	0,3/1,0	6,6	
9	LH M5 006 11 022	B	0,6	4,6/13,1	11,0	22,1	0,4/1,0	6,6	
10	LH M5 008 11 022	B	0,8	4,8/13,3	11,0	22,3	0,6/1,0	6,6	
11	LH M5 010 11 022	B	1,0	5,0/13,5	11,0	22,5	0,8/1,0	6,6	
12	LH M5 030 19 034	A	3,0	16,5	19,0	34,5	2,0	20,6	
13	LH M5 050 19 043	A	5,0	25,5	19,0	43,5	3,5	23,4	

NOTE: Peg mounted balls, Ø 0,3 brazed. With DG 19, the thread length is 20,0 mm.

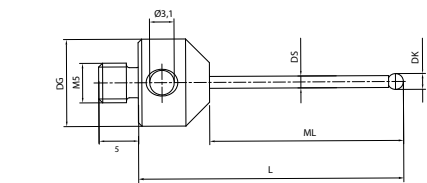


Styli

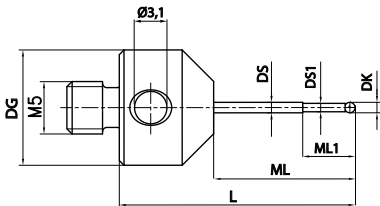
Stainless steel base, carbide stem, ruby/silicon nitride ball

Pos.	itp Order No	Variant	DK	ML1/ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	TH M5 010 11 020/0,8	A	1,0	10,0	11,0	20,0	0,8	5,5	
2	TH M5 010 11 030/0,8	A	1,0	20,0	11,0	30,0	0,8	5,6	
3	NH M5 013 11 032	A	1,35	23,85	11,0	32,85	1,0	5,8	
4	NH M5 015 11 033	A	1,5	24,0	11,0	33,0	1,0	5,8	
5	NH M5 020 10 033	A	2,0	24,5	11,0	33,5	1,0	5,9	
6	NH M5 020 11 033	A	2,0	24,5	11,0	33,5	1,5	6,2	
7	NH M5 025 10 034	A	2,5	25,0	11,0	34,0	1,0	5,9	
8	NH M5 025 11 034	A	2,5	25,0	11,0	34,0	1,5	6,2	
9	NH M5 030 11 025	A	3,0	16,5	11,0	25,5	2,0	6,3	
10	NH M5 050 11 034	A	5,0	25,5	11,0	34,5	3,5	8,8	
11	NH M5 003 11 021	B	0,3	2,3/12,8	11,0	21,8	0,2/1,0	5,7	
12	NH M5 005 11 022	B	0,5	2,5/13,0	11,0	22,0	0,3/1,0	5,7	
13	NH M5 006 11 022	B	0,6	4,6/13,1	11,0	22,1	0,4/1,0	5,6	
14	NH M5 008 11 022	B	0,8	4,8/13,3	11,0	22,3	0,6/1,0	5,6	
15	NH M5 010 11 022	B	1,0	5,0/13,5	11,0	22,5	0,8/1,0	5,7	
16	NH M5 K15 11 033	B	1,5	7,0/24,0	11,0	33,0	1,0/1,5	6,1	
17	NH M5 S10 11 022	B	1,0	5,0/13,5	11,0	22,5	0,8/1,0	5,7	
18	NH M5 S15 11 033	A	1,5	24,0	11,0	33,0	1,0	5,8	
19	NH M5 S20 11 033	A	2,0	24,5	11,0	33,5	1,5	6,2	
20	NH M5 S25 11 034	A	2,5	25,0	11,0	34,0	1,0	6,2	

NOTE: Peg mounted balls, Ø 0,3 brazed, S = silicon nitride, all others ruby



Variant A

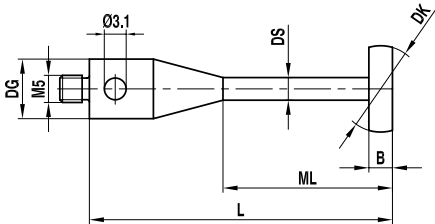


Variant B

Spherical disk styli

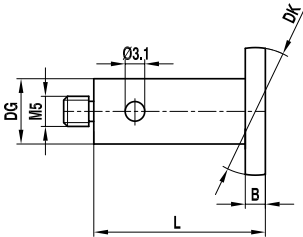
Stainless steel base, carbide stem, high-strength steel disk

Pos.	itp Order No	DK	ML	DG	L	DS	B	Weight (g)	Price/Piece (€)
1	KH M5 080 12 056	8,0	46,0	12,0	57,0	2,5	1,0	10,8	
2	KH M5 100 12 046	10,0	35,7	12,0	46,7	3,0	0,7	11,4	
3	KH M5 160 12 057	16,0	49,5	12,0	60,5	3,5	2,5	17,9	



Aluminium base, high-strength steel disk

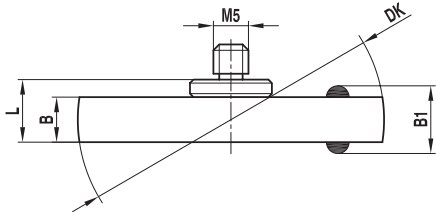
Pos.	itp Order No	DK	DG	L	B	Weight (g)	Price/Piece (€)
1	KI M5 100 07 021	10,0	7,0	21,5	1,5	3,5	
3	KI M5 150 07 040	15,0	7,0	40,0	1,0	5,7	
4	KI M5 200 07 060	20,0	7,0	60,0	1,0	8,9	
5	KI M5 150 10 021	15,0	10,0	21,5	1,5	6,2	



Spherical disk styli with two hemispherical rubies

Stainless steel stem, high-strength steel disk

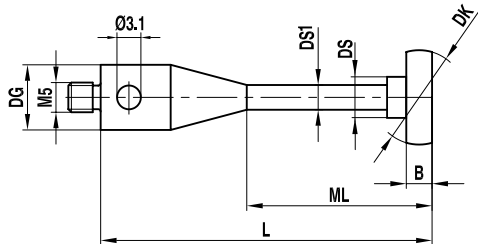
Pos.	itp Order No	DK	L	B1/B	Weight (g)	Price/Piece (€)
1	KI M5 030 12 M50	12,0	5,0	5,0/3,0	3,6	
2	KI M5 030 21 M50	21,0	5,0	5,0/3,0	9,1	
3	KI M5 050 35 M50	35,0	7,0	8,0/5,0	26,3	
4	KI M5 050 63 M50	63,5	7,0	8,0/5,0	71,2	



Spherical disk styli ScanMax

Stainless steel base, carbide stem, high-strength steel disk

Pos.	itp Order No	DK	ML	DG	L	DS1/DS	B	Weight (g)	Price/Piece (€)
1	KI M5 100 11 065	10,0	55,0	11,0	65,0	3,5/5,5	1,0	12,2	
2	KI M5 100 11 065/2	10,0	55,0	11,0	65,0	3,5/5,5	2,0	12,8	
3	KI M5 150 11 065	15,0	55,0	11,0	65,0	3,5/5,5	1,0	13,0	
4	KI M5 150 11 065/2	15,0	55,0	11,0	65,0	3,5/5,5	2,0	14,5	
5	KI M5 200 11 065	20,0	55,0	11,0	65,0	3,5/5,5	1,0	14,0	
6	KI M5 200 11 065/2	20,0	55,0	11,0	65,0	3,5/5,5	2,0	16,3	
7	KI M5 250 11 065	25,0	55,0	11,0	65,0	3,5/10,0	1,0	17,7	
8	KI M5 250 11 065/2	25,0	55,0	11,0	65,0	3,5/10,0	2,0	21,5	
9	KI M5 300 11 065	30,0	55,0	11,0	65,0	3,5/10,0	2,0	25,3	
10	KI M5 400 11 065	40,0	55,0	11,0	65,0	3,5/10,0	2,0	33,1	

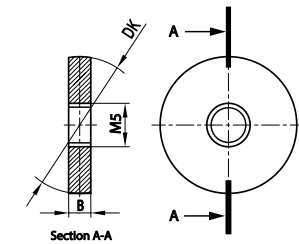


Spherical disk

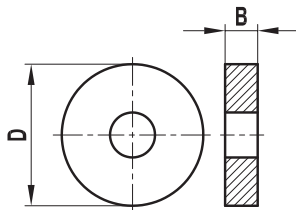
High-strength steel

Pos.	itp Order No	Variant	DK	DG	Thread/Bore hole	B	Weight (g)	Price/Piece (€)
1	KI M5 040 15 M50	A	15,0		M5	4,0	4,8	
2	KI M5 040 20 M50	A	20,0		M5	4,0	8,9	
3	KI M5 040 30 M50	A	30,0		M5	4,0	15,7	
4	KI M5 050 40 M50	A	40,0		M5	5,0	32,9	
5	KI M5 050 50 M50	A	50,0		M5	5,0	38,9	
6	KI M5 050 60 M50	A	60,0		M5	5,0	40,3	
7	KI M5 020 20 080	A	20,0		8,0	2,0	4,0	
8	KI M5 040 20 080	A	20,0		8,0	4,0	8,0	
9	KI M5 040 30 080	A	30,0		8,0	4,0	14,7	
10	KI M5 040 40 080	A	40,0		8,0	4,0	21,4	
11	KI M5 050 50 080	A	50,0		8,0	5,0	35,9	
12	KI M5 060 60 080	A	60,0		8,0	6,0	60,5	
13	KI M5 000 11 015	B		11,0	5,0	1,5	0,8	
14	KI M5 000 19 020	B		19,0	5,0	2,0	4,0	

NOTE: Variant B can only used with longthread styli.



Variant A

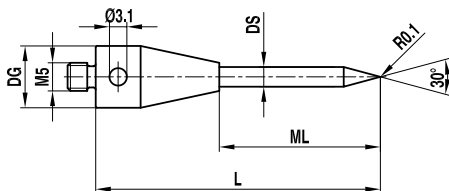


Variant B

Styli pointer

Titanium base, carbide stem

Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	IH M5 030 11 061	30°	39,0	11,0	61,0	3,5	12,5	

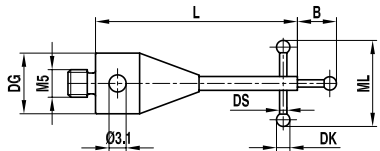


Styli for thread measuring

Stainless steel base, carbide stem, ruby ball

Pos.	itp Order No	DK	ML	DG	L	DS	B	Weight (g)	Price/Piece (€)
1	TI M5 005 11 040	0,5	3,5	11,0	40,0	0,4	1,9	11,4	
2	TI M5 008 11 040	0,8	5,0	11,0	40,0	0,6	1,9	11,5	
3	TI M5 013 11 040	1,35	9,0	11,0	40,0	1,0	2,0	11,6	
4	TI M5 018 11 040	1,8	10,0	11,0	40,0	1,0	2,0	11,6	
5	TI M5 023 11 040	2,3	12,0	11,0	40,0	1,0	2,5	11,6	

NOTE: Peg mounted balls.

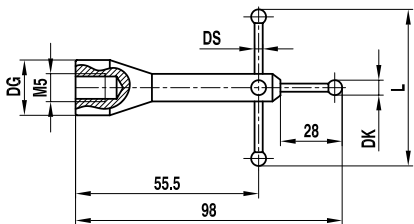


Star styli

Aluminium base, carbide stems, ruby balls

Pos.	itp Order No	DK	DG	L	DS	Weight (g)	Price/Piece (€)
1	SA M5 050 19 080	5,0	19,0	80,0	3,5	62,5	

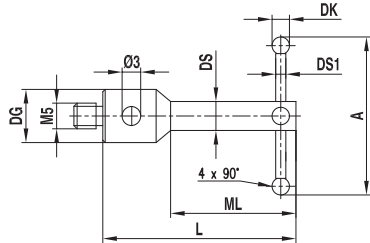
NOTE: Peg mounted balls.



Stainless steel base, carbide stems, ruby balls

Pos.	itp Order No	DK	ML	DG	L	DS1/DS	A	Weight (g)	Price/Piece (€)
1	SI M5 006 11 040	0,6	30,0	11,0	40,0	0,4/4,0	8,0	9,1	
2	SI M5 008 11 040	0,8	30,0	11,0	40,0	0,6/4,0	8,0	9,1	
3	SI M5 010 11 040	1,0	30,0	11,0	40,0	0,8/4,0	8,0	9,1	

NOTE: Peg mounted balls.

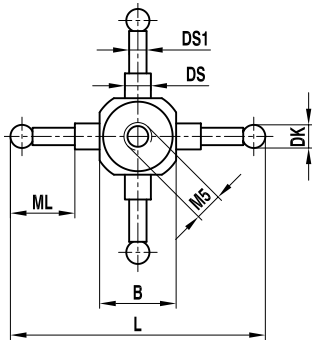


Cube star

Titanium cube base, carbide stem, ruby balls

Pos.	itp Order No	DK	ML	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	WT M5 010 15 045	1,0	7,0		45,0	0,8 / 2,0	15,8	
2	WT M5 015 15 045	1,5	7,5		45,0	1,0 / 2,0	15,8	
3	WT M5 020 15 045	2,0	7,5		45,0	1,5 / 2,0	17,3	
4	WT M5 025 15 045	2,5	8,0		45,0	1,5 / 2,0	16,3	
5	WT M5 035 15 045	3,5	15,0		45,0	2,0	17,0	

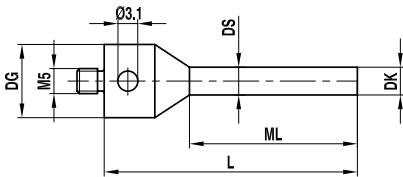
NOTE: Peg mounted balls.



Cylinder styli

Stainless steel base, carbide cylinder

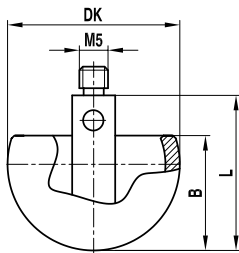
Pos.	itp Order No	DK	ML	DG	L	DS	Weight (g)	Price/Piece (€)
1	ZH M5 030 12 050	3,0	39,0	12,0	50,0	3,0	11,3	



Hollow ceramic hemisphere

Stainless steel base, hollow ceramic hemisphere

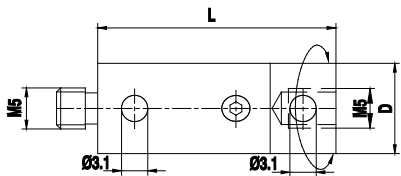
Pos.	itp Order No	DK	DG	L	B	Weight (g)	Price/Piece (€)
1	HK M5 160 10 019	16,0	10,0	19,5	10,0	9,6	
2	HK M5 180 10 020	18,0	10,0	20,0	11,0	9,9	
3	HK M5 220 10 020	22,0	10,0	20,0	13,0	14,4	
4	HK M5 300 10 024	30,0	10,0	24,5	18,0	20,7	



Rotary adapter

Titanium

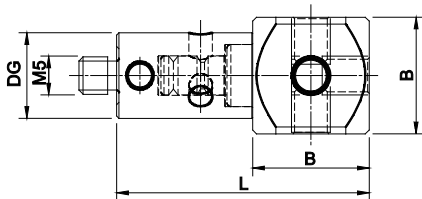
Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	DT M5 000 11 029	11,0	29,0	11,0	
2	DT M5 000 18 030	18,0	30,0	31,7	



Rotary cube element

Titanium

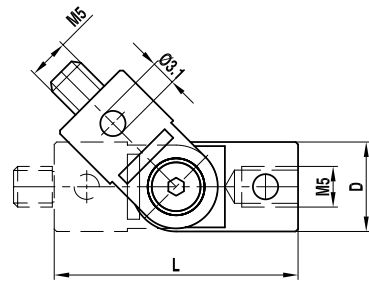
Pos.	itp Order No	DG	L	B	Weight (g)	Price/Piece (€)
1	DWT M5 000 15 032	11,0	32,5	15,0	18,9	



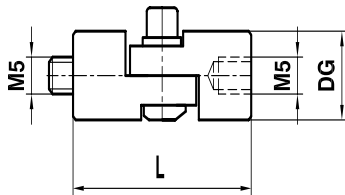
Knuckle

Titanium

Pos.	itp Order No	Variant	DG	L	Weight (g)	Price/Piece (€)
1	GT M5 000 11 030	A	11,0	30,0	11,5	
2	GT M5 000 18 036	A	18,0	36,0	37,5	
3	GT M5 000 12 034	B	12,0	34,0	16,5	
4	GT M5 000 18 040	B	18,0	40,0	39,9	



Variant A

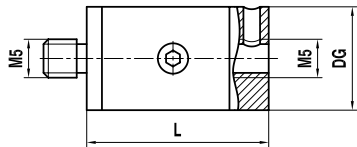


Variant B

Rotary knuckle

Titanium

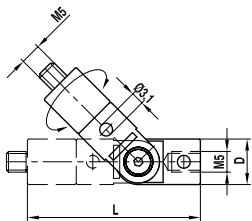
Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	DS M5 000 14 027	14,0	27,0	25,9	



Rotary knuckle, slewing range 360°, swing range 180°

Titanium

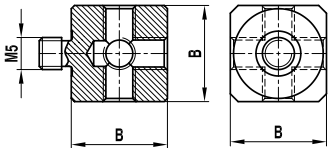
Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	DG M5 000 11 051	11,0	51,0	23,2	
2	DG M5 000 18 058	18,0	58,0	71,4	



Cube

Aluminium

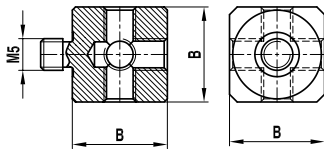
Pos.	itp Order No	B	Weight (g)	Price/Piece (€)
1	WA M5 000 15 000	15,0	7,7	
2	WA M5 000 20 000	20,0	18,7	



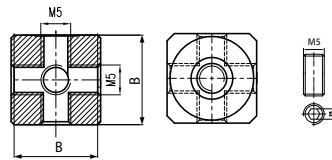
Titanium

Pos.	itp Order No	Variant	B	Weight (g)	Price/Piece (€)
1	WT M5 000 15 000	A	15,0	12,0	
2	WT M5 L00 15 000	A	15,0	12,3	
3	WT M5 000 15 000 OZ	B	15,0	12,3	
4	WT M5 000 20 000	A	20,0	30,0	
5	WT M5 L00 20 000	A	20,0	29,7	
6	WT M5 000 20 000 OZ	B	20,0	30,4	

NOTE: OZ = setscrew enclosed.



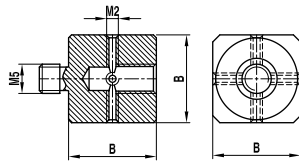
Variant A



Variant B

Titanium, M2/M5

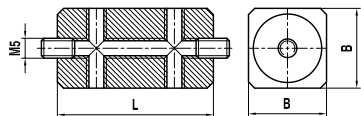
Pos.	itp Order No	B	Weight(g)	Price/Piece (€)
1	WT M5 0M2 15 000	15,0	13,4	
2	WT M5 0M2 20 000	20,0	31,9	



Double cube

Titanium

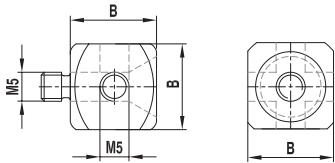
Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	WT M5 000 20 040	40,0	20,0	61,3	



Cube with countersunk screw

Titanium

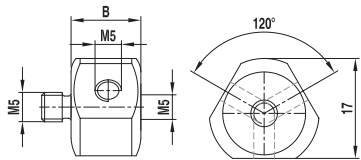
Pos.	itp Order No	B	Weight (g)	Price/Piece (€)
1	WT M5 S00 15 000	15,0	13,2	



4-way cube

Titanium

Pos.	itp Order No	B	Weight (g)	Price/Piece (€)
1	WT M5 120 15 000	15,0	12,4	

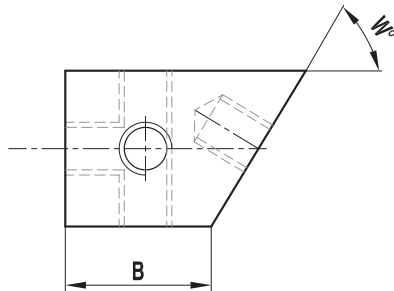


Cube with angle

Titanium

Pos.	itp Order No	W Grad	B	Weight (g)	Price/Piece (€)
1	WT M5 450 15 000	45,0	15,0	20,0	
2	WT M5 475 15 000	47,5	15,0	20,0	
3	WT M5 500 15 000	50,0	15,0	19,2	
4	WT M5 525 15 000	52,5	15,0	18,9	
5	WT M5 550 15 000	55,0	15,0	18,2	
6	WT M5 575 15 000	57,5	15,0	17,7	
7	WT M5 600 15 000	60,0	15,0	17,3	
8	WT M5 625 15 000	62,5	15,0	16,9	
9	WT M5 650 15 000	65,0	15,0	16,4	
10	WT M5 675 15 000	67,5	15,0	16,0	
11	WT M5 700 15 000	70,0	15,0	15,6	
12	WT M5 725 15 000	72,5	15,0	15,1	
13	WT M5 750 15 000	75,0	15,0	14,9	
14	WT M5 775 15 000	77,5	15,0	14,6	
15	WT M5 800 15 000	80,0	15,0	14,4	
16	WT M5 825 15 000	82,5	15,0	14,3	
17	WT M5 850 15 000	85,0	15,0	13,9	
18	WT M5 875 15 000	87,5	15,0	13,5	

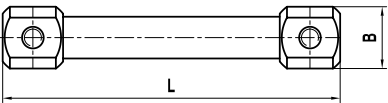
NOTE: Setscrew enclosed.



Cube extension

Titanium

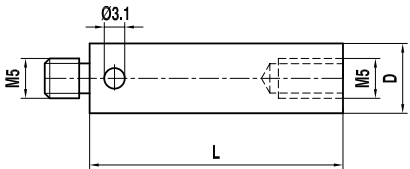
Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	WT M5 000 20 120	120,0	20,0	74,5	



Extension

Aluminium, stainless steel ends

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VA M5 000 11 020	11,0	20,0	7,6	
2	VA M5 000 11 040	11,0	40,0	11,5	
3	VA M5 000 11 050	11,0	50,0	-	
4	VA M5 000 11 060	11,0	60,0	14,5	
5	VA M5 000 11 080	11,0	80,0	18,9	
6	VA M5 000 11 100	11,0	100,0	24,1	
7	VA M5 000 11 120	11,0	120,0	29,2	
8	VA M5 000 20 040	20,0	40,0	32,4	
9	VA M5 000 20 050	20,0	50,0	36,3	
10	VA M5 000 20 060	20,0	60,0	38,7	
11	VA M5 000 20 080	20,0	80,0	45,6	
12	VA M5 000 20 100	20,0	100,0	51,2	
13	VA M5 000 20 150	20,0	150,0	69,1	
14	VA M5 000 20 200	20,0	200,0	84,7	

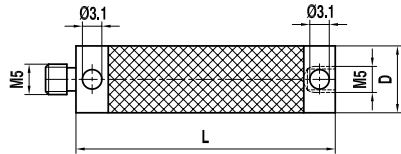


Extension ULTRA

Thermostable carbon fiber, titanium ends

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VC M5 TZ0 11 040	11,0	40,0	7,8	
2	VC M5 TZ0 11 050	11,0	50,0	8,5	
3	VC M5 TZ0 11 060	11,0	60,0	9,5	
4	VC M5 TZ0 11 070	11,0	70,0	10,3	
5	VC M5 TZ0 11 080	11,0	80,0	11,5	
6	VC M5 TZ0 11 090	11,0	90,0	12,3	
7	VC M5 TZ0 11 100	11,0	100,0	13,1	
8	VC M5 TZ0 11 120	11,0	120,0	14,7	
9	VC M5 TZ0 11 150	11,0	150,0	17,5	
10	VC M5 TZ0 11 180	11,0	180,0	20,6	
11	VC M5 TZ0 11 200	11,0	200,0	22,1	
12	VC M5 TZ0 11 250	11,0	250,0	26,3	
13	VC M5 TZ0 11 300	11,0	300,0	30,7	
14	VC M5 TZ0 11 400	11,0	400,0	41,2	
15	VC M5 TZ0 20 040	20,0	40,0	25,1	
16	VC M5 TZ0 20 050	20,0	50,0	26,8	
17	VC M5 TZ0 20 060	20,0	60,0	28,3	
18	VC M5 TZ0 20 080	20,0	80,0	32,1	
19	VC M5 TZ0 20 100	20,0	100,0	36,4	
20	VC M5 TZ0 20 120	20,0	120,0	39,2	
21	VC M5 TZ0 20 150	20,0	150,0	44,2	
22	VC M5 TZ0 20 180	20,0	180,0	50,0	
23	VC M5 TZ0 20 200	20,0	200,0	53,9	
24	VC M5 TZ0 20 250	20,0	250,0	62,7	
25	VC M5 TZ0 20 300	20,0	300,0	71,9	
26	VC M5 TZ0 20 400	20,0	400,0	89,4	
27	VC M5 TZ0 20 500	20,0	500,0	107,6	
28	VC M5 TZ0 20 600	20,0	600,0	126,6	

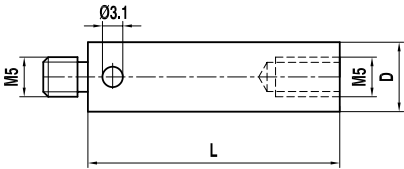
NOTE: Thermostable carbon fiber made from high-tech space technology fibers. E-Modul about 450 GPa.



Extension

Stainless steel

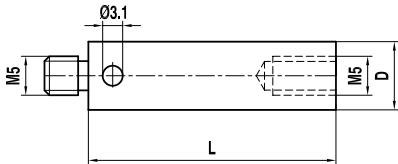
Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VI M5 000 11 010	11,0	10,0	6,4	
2	VI M5 000 11 015	11,0	15,0	9,5	
3	VI M5 000 11 020	11,0	20,0	13,0	
4	VI M5 000 11 030	11,0	30,0	20,6	
5	VI M5 000 11 040	11,0	40,0	27,9	
6	VI M5 000 11 050	11,0	50,0	35,4	
7	VI M5 000 11 060	11,0	60,0	43,1	
8	VI M5 000 11 080	11,0	80,0	57,9	
9	VI M5 000 11 100	11,0	100,0	72,7	



Titanium

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VT M5 000 11 010	11,0	10,0	3,7	
2	VT M5 000 11 015	11,0	15,0	5,6	
3	VT M5 000 11 020	11,0	20,0	7,5	
4	VT M5 000 11 025	11,0	25,0	9,7	
5	VT M5 000 11 030	11,0	30,0	12,1	
6	VT M5 000 11 035	11,0	35,0	14,1	
7	VT M5 000 11 040	11,0	40,0	16,4	
8	VT M5 000 11 050	11,0	50,0	12,9	
9	VT M5 000 11 060	11,0	60,0	14,0	
10	VT M5 000 11 075	11,0	75,0	15,4	
11	VT M5 000 11 080	11,0	80,0	16,1	
12	VT M5 000 11 090	11,0	90,0	17,0	
13	VT M5 000 11 100	11,0	100,0	17,9	
14	VT M5 000 11 120	11,0	120,0	20,0	
15	VT M5 000 11 150	11,0	150,0	23,2	
16	VT M5 000 12 020	12,0 *	20,0	9,0	
17	VT M5 000 12 040	12,0 *	40,0	18,9	
18	VT M5 000 12 050	12,0 *	50,0	14,6	
19	VT M5 000 12 070	12,0 *	70,0	16,6	
20	VT M5 000 12 100	12,0 *	100,0	20,1	
21	VT M5 000 18 020	18,0	20,0	21,6	
22	VT M5 000 18 025	18,0	25,0	27,3	
23	VT M5 000 18 040	18,0	40,0	44,4	
24	VT M5 000 18 050	18,0	50,0	36,0	
25	VT M5 000 18 060	18,0	60,0	38,7	
26	VT M5 000 18 075	18,0	75,0	43,1	
27	VT M5 000 18 080	18,0	80,0	44,5	
28	VT M5 000 18 090	18,0	90,0	47,1	
29	VT M5 000 18 100	18,0	100,0	50,5	
30	VT M5 000 18 120	18,0	120,0	57,0	
31	VT M5 000 18 150	18,0	150,0	64,9	
32	VT M5 000 18 200	18,0	200,0	79,7	
33	VT M5 000 18 250	18,0	250,0	96,0	
34	VT M5 000 18 300	18,0	300,0	110,3	

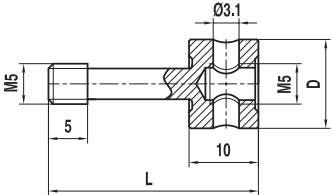
NOTE: *For technical reasons is the Ø < 12 mm.



Threaded extension for cube

Titanium

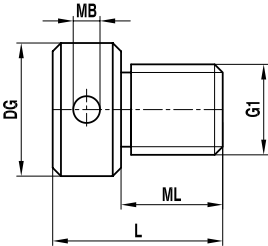
Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
1	VT M5 SGO 11 010	11,0	30,0	4,4	



Thread measuring gage

Stainless steel

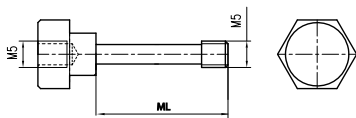
Pos.	itp Order No	ML	DG	L	MB	G1	Weight (g)	Price/Piece (€)
1	GW M4 000 10 016	10,0	10,0	16,0	1,8	M4	3,8	
2	GW M5 000 10 016	10,0	10,0	16,0	1,8	M5	4,6	
3	GW M6 000 12 018	12,0	12,0	18,0	1,8	M6	6,5	
4	GW M8 000 15 020	12,0	15,0	20,0	3,0	M8	14,0	
5	GW M1 000 18 025	15,0	18,0	25,0	3,0	M10	26,1	
6	GW M1 200 20 025	15,0	20,0	25,0	3,0	M12	33,4	



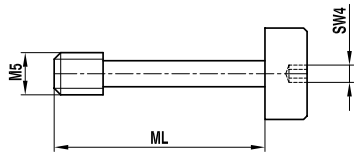
Screw for cube

Stainless steel

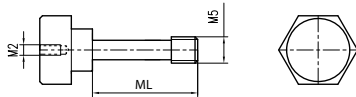
Pos.	itp Order No	Variant	ML	L	Weight (g)	Price/Piece (€)
1	SI M5 000 10 017	A	9,0	17,5	7,7	
2	SI M5 000 21 030	A	21,0	30,0	8,7	
3	SI M5 000 26 035	A	26,0	35,0	9,3	
4	SI M5 000 21 000	B	21,0	–	3,4	
5	SI M5 000 26 000	B	26,0	–	3,9	
6	SI M5 0M2 20 030	C	20,0	30,0	10,0	
7	SI M5 0M2 26 035	C	26,0	35,0	10,4	



Variant A



Variant B

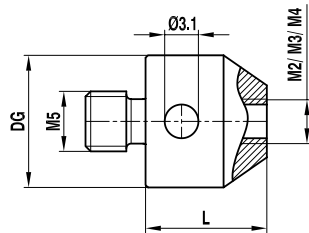


Variant C

Adapter

Stainless steel

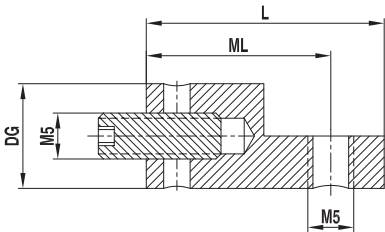
Pos.	itp Order No	DG	L	From to	Weight (g)	Price/Piece (€)
1	RT M5 200 11 010	11,0	10,0	M5/M2	6,1	
2	RT M5 300 11 010	11,0	10,0	M5/M3	6,0	
3	RT M5 400 11 010	11,0	10,0	M5/M4	6,2	



Adapter for styli 90°

Titanium

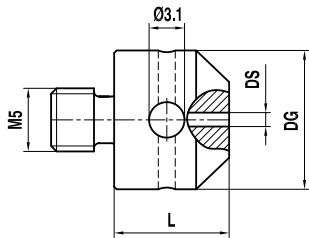
Pos.	itp Order No	ML	DG	L	Weight (g)	Price/Piece (€)
1	KH M5 000 11 022	17,0	11,0	22,5	6,	



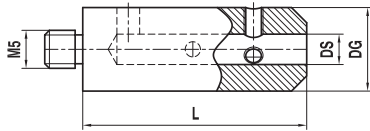
1-way holder

Stainless steel

Pos.	itp Order No	Variant	DG	L	DS	Weight (g)	Price/Piece (€)
1	SH M5 000 11 010	A	11,0	10,0	1,0	6,0	
2	KH M5 000 30 040	B	11,0	29,5	4,0	11,3	



Variant A

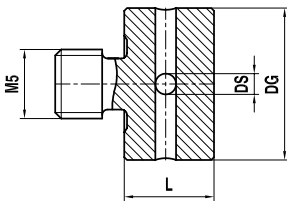


Variant B

2-way holder

Stainless steel

Pos.	itp Order No	DG	L	DS	Weight (g)	Price/Piece (€)
1	KH M5 000 20 010	10,0	6,0	1,0	4,1	

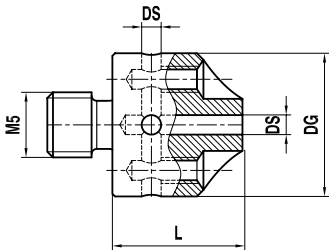


5-way holder

Stainless steel

Pos.	itp Order No	DG	L	DS	Weight (g)	Price/Piece (€)
1	KH M5 000 11 010	11,0	10,0	1,0	5,9	
2	KH M5 000 11 015	11,0	10,0	1,5	5,5	
3	KH M5 000 11 020	11,0	10,0	2,0	5,2	

NOTE: Applicable with KT M5 002 01 015 – KT M5 030 20 038.

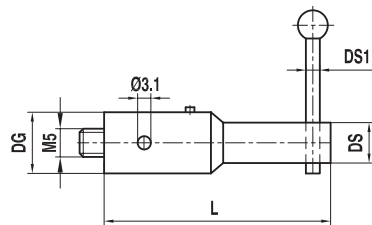


Holder

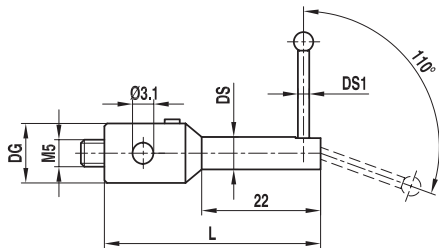
Stainless steel

Pos.	itp Order No	Variant	DG	L	DS1/DS	Weight (g)	Price/Piece (€)
1	KI M5 115 11 045	A	11,0	45,0	1,0-1,5 / 6,0	18,4	
2	KI M5 022 11 040	B	11,0	40,0	1,0-1,5 / 6,0	15,6	

NOTE: Applicable with KT M5 002 01 015 – KT M5 025 15 027.



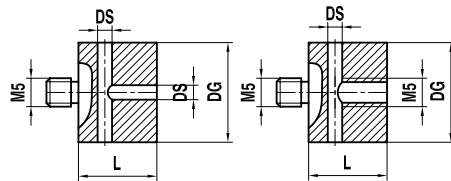
Variant A holder 90 °



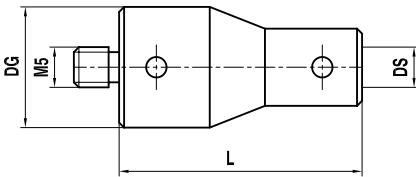
Variant B holder swiveling

Titanium

Pos.	itp Order No	Variant	DG	L	DS	Number of holes	Weight (g)	Price/Piece (€)
1	KH M5 000 15 020	A	15,0	10,0	2,0	5	6,6	
2	KH M5 000 15 012	A	15,0	12,0	2,0	4 + M5	13,9	
3	KH M5 000 12 021	B	12,0	21,0	2,0	1	14,0	



Variant A

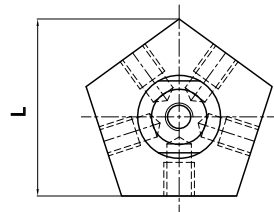


Variant B

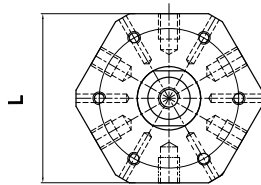
Holder for multiple styli for gears inspection

Titanium

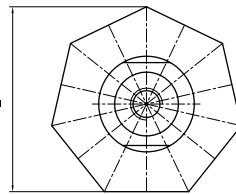
Pos.	itp Order No	Variant	Thickness	L	Number of styli	Weight (g)	Price/Piece (€)
1	KH M5 L05 13 021	A	13,0	32,0	5	45,2	
2	KH M5 L06 13 021	B	13,0	40,0	6	78,9	
3	KH M5 L07 13 021	C	13,0	29,0	7	38,0	
4	KH M5 L08 13 021	D	13,0	42,0	8	81,9	
5	KH M5 L08 06 017	E	17,0	88,0	8	142,0	



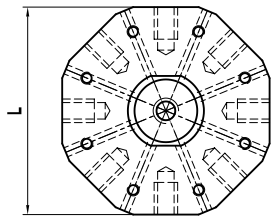
Variant A



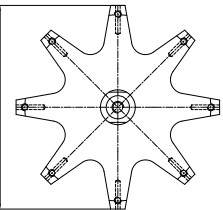
Variant B



Variant C



Variant D



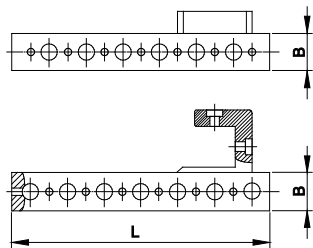
Variant E

Multiple styli holder

Titanium, adjustable

Pos.	itp Order No	L	B	Weight (g)	Price/Piece (€)
1	MA M5 000 20 100	100,0	20,0	213,6	
2	MA M5 000 20 140	140,0	20,0	258,0	
3	MA M5 000 20 200	200,0	20,0	323,0	

NOTE: Mountable to TP M5 MES SO 001.

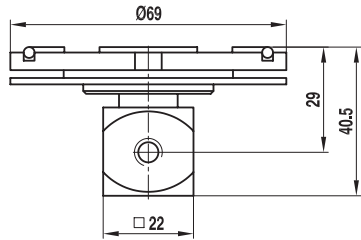


Adapter plate for VAST/MT

Aluminium, with active ID Chip and engraved 15° scale

Pos.	itp Order No	DK	DG	L	SW	Weight (g)	Price/Piece (€)
1	TP M5 MES SO 001	15,0	24,0	130,0	22,0	158,3	
2	TP M5 MES SO 002	20,0	24,0	135,0	22,0	317,2	
3	TP M5 MES SO 001 OW*	25,0	24,0	140,0	22,0	132,6	

NOTE: “002” means dual pack.*Adapter plate instead of cube. Does not support the “FlyScan” and “QuickChange”.

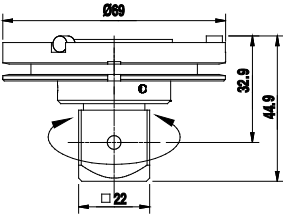


Adapter plate EASY! suitable for VAST/MT

Aluminium, with active ID Chip, rotating cube and engraved 15° scale

Pos.	itp Order No	No of pieces	Weight (g)	Price/Piece (€)
1	TP M5 MEASY 001	1	197,9	
2	TP M5 MEASY 002	2	396,3	

NOTE: “002” means dual pack. Does not support the “FlyScan” and “QuickChange”.

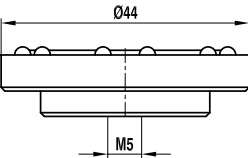


Adapter plate for dynamic system (ST)

Aluminium

Pos.	itp Order No	No of pieces	Weight (g)	Price/Piece (€)
1	AT M5 SCH AL 001	1	73,5	
2	AT M5 SCH AL 002	2	146,9	

NOTE: “002” means dual pack. Does not support the “FlyScan” and “QuickChange”.

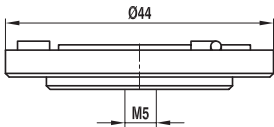


Adapter plate for Prismo dynamic systems (ST))

Aluminium

Pos.	itp Order No	No of pieces	Weight (g)	Price/Piece (€)
1	TP M5 SCH AL 001	1	72,1	
2	TP M5 SCH AL 002	2	144,3	

NOTE: “002” means dual pack. Does not support the “FlyScan” and “QuickChange”.

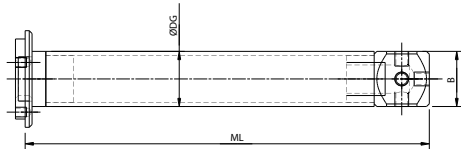


Extension for adapter plate VAST/MT

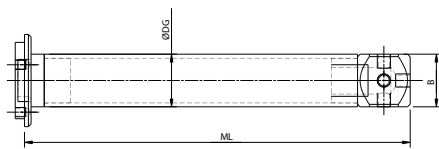
Thermostable carbon fiber, titanium cube and plate adapter

Pos.	itp Order No	Variant	ML	DG	L	B	Weight (g)	Price/Piece (€)
1	TV M5 TZ1 15 025	A	66,5	11,0	25,0	15,0	44,3	
2	TV M5 TZ1 15 040	A	81,5	11,0	40,0	15,0	45,3	
3	TV M5 TZ1 15 050	A	91,5	11,0	50,0	15,0	46,1	
4	TV M5 TZ1 15 060	A	101,5	11,0	60,0	15,0	46,8	
5	TV M5 TZ1 15 080	A	121,5	11,0	80,0	15,0	48,3	
6	TV M5 TZ1 15 100	A	141,5	11,0	100,0	15,0	49,8	
7	TV M5 TZ1 15 120	A	161,5	11,0	120,0	15,0	51,3	
8	TV M5 TZ1 15 150	A	191,5	11,0	150,0	15,0	53,5	
9	TV M5 TZ1 15 200	A	241,5	11,0	200,0	15,0	57,2	
10	TV M5 TZ2 15 025	A	66,5	20,0	25,0	15,0	58,0	
11	TV M5 TZ2 15 040	A	81,5	20,0	40,0	15,0	60,1	
12	TV M5 TZ2 15 050	A	91,5	20,0	50,0	15,0	61,6	
13	TV M5 TZ2 15 060	A	101,5	20,0	60,0	15,0	63,1	
14	TV M5 TZ2 15 080	A	121,5	20,0	80,0	15,0	66,1	
15	TV M5 TZ2 15 100	A	141,5	20,0	100,0	15,0	69,1	
16	TV M5 TZ2 15 120	A	161,5	20,0	120,0	15,0	72,1	
17	TV M5 TZ2 15 150	A	191,5	20,0	150,0	15,0	76,6	
18	TV M5 TZ2 15 200	A	241,5	20,0	200,0	15,0	83,8	

Pos.	itp Order No	Variant	ML	DG	L	B	Weight (g)	Price/Piece (€)
19	TV M5 TZ2 20 025	B	71,5	20,0	25,0	20,0	69,3	
20	TV M5 TZ2 20 040	B	86,5	20,0	40,0	20,0	71,5	
21	TV M5 TZ2 20 050	B	96,5	20,0	50,0	20,0	73,0	
22	TV M5 TZ2 20 060	B	106,5	20,0	60,0	20,0	74,5	
23	TV M5 TZ2 20 080	B	126,5	20,0	80,0	20,0	77,5	
24	TV M5 TZ2 20 100	B	146,5	20,0	100,0	20,0	80,5	
25	TV M5 TZ2 20 120	B	166,5	20,0	120,0	20,0	83,5	
26	TV M5 TZ2 20 150	B	196,5	20,0	150,0	20,0	88,0	
27	TV M5 TZ2 20 200	B	246,5	20,0	200,0	20,0	95,5	



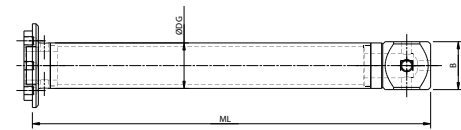
Variant A



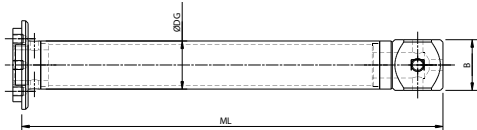
Variant B

Titanium, titanium cube and plate adapter

Pos.	itp Order No	Variant	ML	DG	L	B	Weight (g)	Price/Piece (€)
1	TV M5 011 15 025	A	66,5	11,0	25,0	15,0	47,0	
2	TV M5 011 15 040	A	81,5	11,0	40,0	15,0	48,1	
3	TV M5 011 15 050	A	91,5	11,0	50,0	15,0	48,9	
4	TV M5 011 15 060	A	101,5	11,0	60,0	15,0	49,7	
5	TV M5 011 15 080	A	121,5	11,0	80,0	15,0	51,2	
6	TV M5 011 15 100	A	141,5	11,0	100,0	15,0	52,7	
7	TV M5 011 15 120	A	161,5	11,0	120,0	15,0	54,2	
8	TV M5 011 15 150	A	191,5	11,0	150,0	15,0	56,5	
9	TV M5 018 15 025	A	66,5	18,0	25,0	15,0	64,0	
10	TV M5 018 15 040	A	81,5	18,0	40,0	15,0	69,7	
11	TV M5 018 15 050	A	91,5	18,0	50,0	15,0	73,5	
12	TV M5 018 15 060	A	101,5	18,0	60,0	15,0	77,3	
13	TV M5 018 15 080	A	121,5	18,0	80,0	15,0	84,9	
14	TV M5 018 15 100	A	141,5	18,0	100,0	15,0	92,5	
15	TV M5 018 15 120	A	161,5	18,0	120,0	15,0	100,1	
16	TV M5 018 15 150	A	191,5	18,0	150,0	15,0	111,5	
17	TV M5 018 15 200	A	241,5	18,0	200,0	15,0	130,5	
18	TV M5 018 20 025	B	71,5	18,0	25,0	20,0	73,3	
19	TV M5 018 20 040	B	86,5	18,0	40,0	20,0	78,8	
20	TV M5 018 20 050	B	96,5	18,0	50,0	20,0	82,5	
21	TV M5 018 20 060	B	106,5	18,0	60,0	20,0	86,2	
22	TV M5 018 20 080	B	126,5	18,0	80,0	20,0	93,6	
23	TV M5 018 20 100	B	146,5	18,0	100,0	20,0	101,0	
24	TV M5 018 20 120	B	166,5	18,0	120,0	20,0	108,4	
25	TV M5 018 20 150	B	196,5	18,0	150,0	20,0	119,5	
26	TV M5 018 20 200	B	246,5	18,0	200,0	20,0	138,0	



Variant A



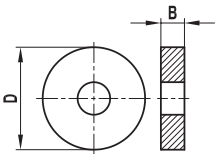
Variant B

Grooved disk for star styli

Stainless steel

Pos.	itp Order No	DG	B	Weight (g)	Price/Piece (€)
1	NI M5 000 11 020	11,0	2,0	1,0	
2	NI M5 000 19 040	19,0	4,0	7,2	

NOTE: To be used with long threaded styli only.

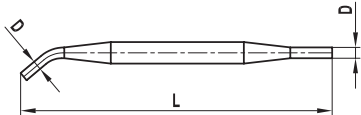


Wrench

Stainless steel

Pos.	itp Order No	DG	L	Weight (g)	Price/Piece (€)
2	MI MO 029 00 070	2,9	70,0	7,7	
3	SS M5 002 08 596	2,9	70,0	15,5	

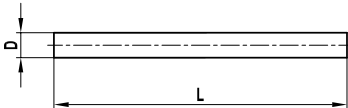
NOTE: SS = Set of 2 keys MI MO 029 00 070.

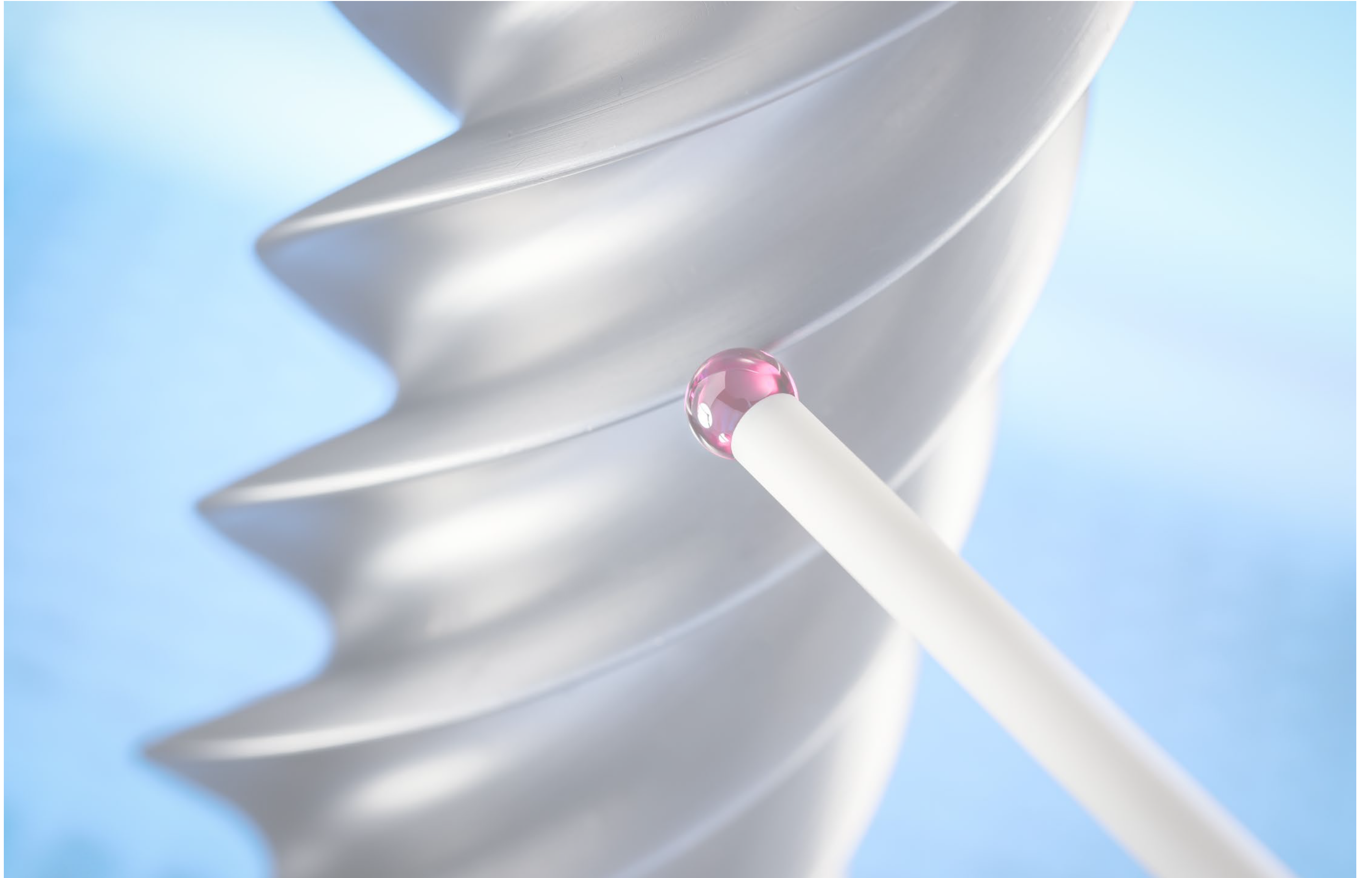


Pin for star styli

Carbide

Pos.	itp Order No	DG	L	B	Weight (g)	Price/Piece (€)
1	SH M5 000 10 010	1,0	10,0	2,0	0,1	
2	SH M5 000 15 010	1,5	10,0	4,0	0,3	
3	SH M5 000 20 018	2,0	18,0		0,8	
4	SH M5 000 35 018	3,5	18,0		2,5	







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