

Probe System Equipment **VAST®XXT**

Original accessories from the technology leader



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**Accessories
optimized for
VAST®XXT**



Imprint

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Version: V2011_03_E_3.04

Important Notice:

Prices are subject to change.
Styli and accessory components are subject to technical modifications and changes.
Prices are net without deduction.
All dimensions are in mm.
Pictures can differ from actual products.
You can find our full T&C at:
www.probes.zeiss.com (Imprint)

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Katalog-Navigation

- Neuheiten
- MT/VAST
- Taster M5
- Kugeltaster / HM-Schaft**
 - Kugeltaster / ThermoFit
 - Kugeltaster / Keramik
 - Scheibentaster
 - Kegelschafttaster
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 - ScanMax
 - DuraMax
 - GageMax
 - CenterMax

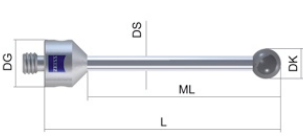
Taster und Zubehör für Koordinatenmessgeräte
Ein Angebot der Carl Zeiss 3D Automation GmbH

Katalog | Warenkorb | Suche | Kontakt | Impressum

Gerader Schaft / SiN Kugel

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Angemeldeter Benutzer:
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Kugeltaster mit geradem Hartmetallschaft und Siliziumnitrid Kugel werden in allen Standardanwendungen eingesetzt. SiN ist ein extrem hartes Material. Hartmetall ist auch bei kleinen Schaftdurchmessern sehr biegesteif.

Artikelnr.	DK	L	ML	DS	DG	Gew.(g)	Preis	Menge
000000-1323-893	1,500	33,00	24,00	1,00	11,00	5,80		<input type="text"/>
626115-0200-032	2,000	32,00	12,00	1,50	11,00	7,00		<input type="text"/>
000000-1323-889	2,000	33,50	24,50	1,50	11,00	6,30		<input type="text"/>
626115-0203-044	2,000	44,00	19,00	1,50	11,00	7,70		<input type="text"/>
626115-0303-025	3,000	25,00	15,00	2,00	11,00	6,55		<input type="text"/>
626115-0300-033	3,000	33,00	23,00	2,00	11,00	4,40		<input type="text"/>
626115-0302-050	3,000	50,00	40,00	2,00	11,00	7,50		<input type="text"/>
626115-0300-058	3,000	58,00	48,00	2,00	11,00	8,00		<input type="text"/>
626115-0400-034	4,000	33,50	23,00	2,00	11,00	7,00		<input type="text"/>
626115-0401-064	4,000	64,00	54,00	2,50	11,00	6,00		<input type="text"/>

Benutzerkonto

- Persönliche Daten
- Aktuelle Bestellungen
- Historie
- Kontingente
- Merkliste
- Mein Shop

Warenkorb



Nächste Schritte

- Warenkorb
- Bestellen

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www.probes.zeiss.com

Accuracy starts at the tip of the stylus

The accuracy of a 3D coordinate measuring machine (CMM) is mainly determined where the measurand is recorded – at the stylus of the probe. Only in conjunction with an effective probe system equipment can workpieces be measured accurately, fast and efficiently.

Our XXT styli have been especially designed for the ZEISS VAST® XXT scanning probe system. They differ from the conventional styli in many ways:

The main focus in the choice of materials was to get a light and bending-resistant construction. The bases and connecting elements are made out of the high-strength titanium alloy TiAl6V4 (titanium grade 5). Thus they offer maximum stiffness at minimum weight.

We offer styli with two types of shafts. The shafts

of styli, where the diameter of the sphere is 3 mm or higher are made of carbon fibre rods. Of course they offer extremely high thermal stability to allow accurate measuring, even in an in-production environment. The thinner shafts for styli, where the diameter of the sphere is less than 3 mm, are made of very stiff, precision-ground tungsten carbide rods.

Choose from our large selection. We offer a wide variety of various styli shapes and styli materials, to make almost every measurement task possible. From extremely small and light star styli to ceramic hemisphere styli for wide diameters at low weight – we have everything you need.

All components of our building-block system have a M3 thread, but differ from the conventional M3 styli in their larger and thus more rugged base.



Our QM-system meets the requirements of
ISO 9001:2008
ISO 14001
OHSAS 18001

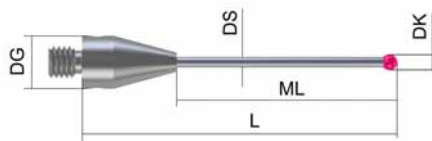
Styli with Sphere / Carbide Shaft



Tungsten carbide as a shaft material is used for styli with a small sphere diameter.

Through precision grinding we are able to produce very thin and stepped shafts with very high stiffness.

Straight Shaft / Ruby Sphere



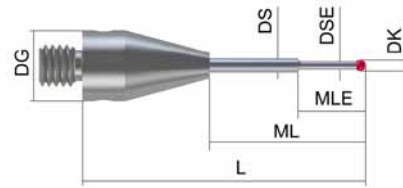
Styli with ruby sphere and tungsten carbide shaft are made for standard applications. The design of these styli was optimized for the VAST XXT probe head regarding low weight and high stiffness.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626113-0080-014	0,80	14,00	5,00	0,60	5,00	0,6
626113-0100-014	1,00	14,00	5,00	0,80	5,00	0,6
626113-0100-017	1,00	17,00	9,00	0,80	5,00	0,7
626113-0103-020	1,00	20,00	11,00	0,80	5,00	0,7
626113-0141-024	1,35	24,00	15,00	1,00	5,00	0,7
626113-0150-014	1,50	14,00	5,00	1,00	5,00	0,7
626113-0150-017	1,50	17,00	8,00	1,00	5,00	0,7
626113-0150-020	1,50	20,00	11,00	1,00	5,00	0,7
626113-0151-025	1,50	25,00	14,00	1,00	5,00	0,7
626113-0151-030	1,50	30,00	21,00	1,00	5,00	0,8
626113-0150-030	1,50	30,00	22,50	1,00	5,00	0,9
626113-0150-035	1,50	35,00	26,00	1,00	5,00	1,1
626113-0151-040	1,50	40,00	31,00	1,00	5,00	1,6
626113-0200-014	2,00	14,00	5,00	1,00	5,00	0,7
626113-0200-017	2,00	17,00	8,00	1,00	5,00	0,7
626113-0200-020	2,00	20,00	11,00	1,00	5,00	0,7
626113-0200-025	2,00	25,00	16,00	1,00	5,00	0,8
626113-0200-030	2,00	30,00	21,00	1,00	5,00	0,8
626113-0200-035	2,00	35,00	26,00	1,50	5,00	1,4
626113-0201-040	2,00	40,00	31,00	1,50	5,00	1,7
626113-0250-020	2,50	20,00	11,00	1,50	5,00	1,0
626113-0250-025	2,50	25,00	16,00	1,50	5,00	1,3
626113-0250-030	2,50	30,00	21,00	1,50	5,00	1,5
626113-0250-035	2,50	35,00	26,00	1,50	5,00	1,8
626113-0250-040	2,50	40,00	31,00	1,50	5,00	2,0

More sizes on request.

Stepped Shaft / Ruby Sphere

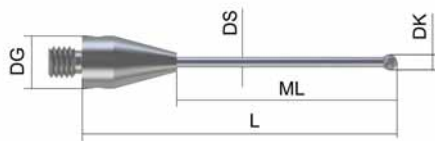
Styli with ruby sphere and tungsten carbide shaft are made for standard applications. The design of these styli was optimized for the VAST XXT probe head regarding low weight and high stiffness.



Art-Nr	DK	L	ML	MLE	DS	DSE	DG	weight(g)
626113-0025-011	0,25	11,00	5,00	2,50	1,00	0,20	5,00	1,0
626113-0030-025	0,25	25,00	11,00	4,00	0,80	0,20	5,00	0,8
626113-0030-013	0,30	13,00	4,00	2,30	1,00	0,20	5,00	0,6
626113-0030-015	0,30	15,00	6,00	2,30	1,00	0,20	5,00	0,6
626113-0030-018	0,30	18,00	9,00	2,30	1,00	0,20	5,00	0,7
626113-0030-020	0,30	20,00	11,00	2,30	1,00	0,20	5,00	0,7
626113-0040-013	0,40	13,00	4,00	2,30	1,00	0,30	5,00	0,6
626113-0040-015	0,40	15,00	6,00	2,30	1,00	0,30	5,00	0,7
626113-0040-020	0,40	20,00	11,00	2,30	1,00	0,30	5,00	0,7
626113-0050-013	0,50	13,00	4,00	2,30	1,00	0,30	5,00	0,6
626113-0050-015	0,50	15,00	6,00	2,30	1,00	0,30	5,00	0,7
626113-0050-018	0,50	18,00	9,00	2,30	1,00	0,30	5,00	0,7
626113-0050-020	0,50	20,00	11,00	2,30	1,00	0,30	5,00	0,7
626113-0051-024	0,50	24,00	15,00	2,30	1,00	0,30	5,00	0,7
626113-0060-014	0,60	14,00	5,00	4,60	1,00	0,40	5,00	0,6
626113-0060-017	0,60	17,00	8,00	4,60	1,00	0,40	5,00	0,7
626113-0060-020	0,60	20,00	11,00	4,60	1,00	0,40	5,00	0,7
626113-0061-024	0,60	24,00	15,00	4,60	1,00	0,40	5,00	0,8
626113-0080-017	0,80	17,00	8,00	4,80	1,00	0,60	5,00	0,7
626113-0080-020	0,80	20,00	11,00	4,80	1,00	0,60	5,00	0,7
626113-0080-025	0,80	25,00	16,00	4,80	1,00	0,60	5,00	0,8
626113-0080-034	0,80	34,00	25,00	4,10	1,00	0,60	5,00	0,8
626113-0081-035	0,80	35,00	26,00	4,80	1,00	0,60	5,00	0,8
626113-0100-020	1,00	20,00	11,00	5,00	1,00	0,80	5,00	0,7
626113-0100-025	1,00	25,00	16,00	5,00	1,00	0,80	5,00	0,8
626113-0100-030	1,00	30,00	21,00	5,00	1,00	0,80	5,00	0,8
626113-0100-035	1,00	35,00	26,00	5,00	1,00	0,80	5,00	1,2
626113-0100-040	1,00	40,00	31,00	5,00	1,00	0,80	5,00	1,5

More sizes on request.

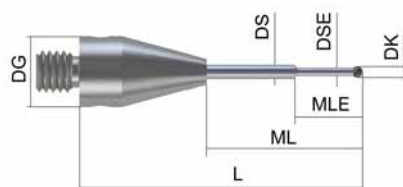
Straight Shaft / Silicon Nitride Sphere



Styli with a silicon nitride sphere and a straight carbide shaft are used in all standard applications. Silicon nitride is an extremely hard material that can be shaped into a very accurate sphere.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626113-0152-014	1,50	14,00	5,00	1,00	5,00	0,7
626113-0153-020	1,50	20,00	11,00	1,00	5,00	0,7
626113-0155-030	1,50	30,00	21,00	1,00	5,00	0,8
626113-0152-040	1,50	40,00	31,00	1,00	5,00	1,6
626113-0201-014	2,00	14,00	5,00	1,00	5,00	0,7
626113-0203-020	2,00	20,00	11,00	1,00	5,00	0,7
626113-0203-030	2,00	30,00	21,00	1,50	5,00	0,8
626113-0203-040	2,00	40,00	31,00	1,50	5,00	1,7
626113-0251-020	2,50	20,00	11,00	1,50	5,00	1,0
626113-0252-030	2,50	30,00	21,00	1,50	5,00	1,5
626113-0251-040	2,50	40,00	31,00	1,50	5,00	2,0

Stepped Shaft / Silicon Nitride Sphere



Styli with a silicon nitride sphere and a straight carbide shaft are used in all standard applications. Silicon nitride is an extremely hard material that can be shaped into a very accurate sphere.

Art-Nr	DK	L	ML	MLE	DS	DSE	DG	weight (g)
626113-0102-020	1,00	20,00	11,00	5,00	1,00	0,80	5,00	0,7
626113-0101-025	1,00	25,00	16,00	5,00	1,00	0,80	5,00	0,8
626113-0105-030	1,00	31,00	21,00	5,00	1,00	0,80	5,00	0,8
626113-0101-035	1,00	35,00	26,00	5,00	1,00	0,80	5,00	1,2
626113-0101-040	1,00	40,00	31,00	5,00	1,00	0,80	5,00	1,5

More sizes on request.

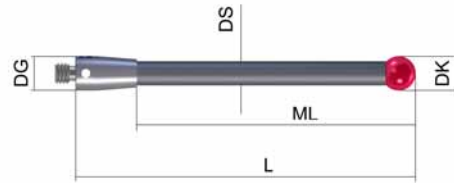
Styli with Sphere / ThermoFit Shaft

The advantages of styli with the ThermoFit CFK-Shaft are: thermal stability, minimum weight and high stiffness, thus being ideal for long styli and the application in a production environment.



Ruby Sphere

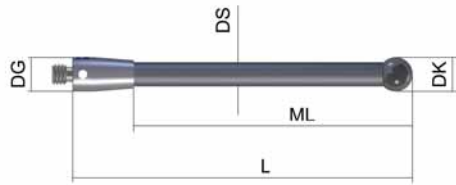
ThermoFit styli with minimized temperature changing CFK shaft can be used for long and light weight styli systems. The styli in this section have been optimized for the use with the Zeiss VAST XXT scanning probe head.



Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0300-025	3,00	25,00	16,00	2,00	5,00	0,7
626103-0300-033	3,00	33,00	24,00	2,00	5,00	0,7
626103-0300-040	3,00	40,00	31,00	2,00	5,00	0,8
626103-0300-042	3,00	42,00	33,00	2,00	5,00	0,8
626103-0300-050	3,00	50,00	41,00	2,00	5,00	0,8
626103-0300-058	3,00	58,00	49,00	2,00	5,00	1,0
626103-0300-059	3,00	59,00	50,00	2,00	5,00	1,0
626103-0300-065	3,00	65,00	56,00	2,00	5,00	1,0
626103-0300-075	3,00	75,00	66,00	2,00	5,00	1,0
626103-0300-084	3,00	84,00	75,00	2,00	5,00	1,6
626103-0300-100	3,00	100,00	91,00	2,00	5,00	2,1
626103-0300-125	3,00	125,00	116,00	2,00	5,00	2,5
626103-0401-050	4,00	50,00	41,00	2,00	5,00	1,0
626103-0500-030	5,00	30,00	21,00	3,50	5,00	1,1
626103-0500-040	5,00	40,00	31,00	3,50	5,00	1,2
626103-0500-050	5,00	50,00	41,00	3,50	5,00	1,4
626103-0500-060	5,00	60,00	51,00	3,50	5,00	1,5
626103-0501-075	5,00	75,00	66,00	3,50	5,00	1,8
626103-0600-050	6,00	50,00	40,00	3,50	5,00	1,5
626103-0610-070	6,00	70,00	61,00	3,50	5,00	1,8
626103-0600-100	6,00	100,00	91,00	3,50	5,00	2,4
626103-0800-030	8,00	30,00	30,00	5,00	5,00	1,9
626103-0830-050	8,00	50,00	50,00	5,00	5,00	2,1
626103-0830-070	8,00	70,00	70,00	5,00	5,00	2,6
626103-0830-100	8,00	100,00	100,00	5,00	5,00	2,7
626103-0800-125	8,00	125,00	125,00	5,00	5,00	2,9

More sizes on request.

Silicon Nitride Sphere



ThermoFit styli with minimized temperature changing CFK shaft can be used for long and light weight styli systems. The styli in this section are equipped with silicon nitride spheres and have been optimized for the use with the Zeiss VAST XXT scanning probe head.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0301-025	3,00	25,00	16,00	2,00	5,00	0,7
626103-0301-033	3,00	33,00	24,00	2,00	5,00	0,7
626103-0305-040	3,00	40,00	31,00	2,00	5,00	0,8
626103-0301-042	3,00	42,00	33,00	2,00	5,00	0,8
626103-0301-050	3,00	50,00	41,00	2,00	5,00	0,8
626103-0301-058	3,00	58,00	49,00	2,00	5,00	1,0
626103-0301-065	3,00	65,00	56,00	2,00	5,00	1,0
626103-0301-075	3,00	75,00	66,00	2,00	5,00	1,0
626103-0301-084	3,00	84,00	75,00	2,00	5,00	1,6
626103-0301-100	3,00	100,00	91,00	2,00	5,00	2,1
626103-0301-125	3,00	125,00	116,00	2,00	5,00	2,5
626103-0402-050	4,00	50,00	41,00	2,00	5,00	1,0
626103-0502-030	5,00	30,00	21,00	3,50	5,00	1,1
626103-0501-040	5,00	40,00	31,00	3,50	5,00	1,2
626103-0502-050	5,00	50,00	41,00	3,50	5,00	1,4
626103-0501-060	5,00	60,00	51,00	3,50	5,00	1,5
626103-0500-075	5,00	75,00	66,00	3,50	5,00	1,8
626103-0601-050	6,00	50,00	41,00	3,50	5,00	1,5
626103-0600-070	6,00	70,00	61,00	3,50	5,00	1,8
626103-0601-100	6,00	100,00	91,00	3,50	5,00	2,4
626103-0801-030	8,00	30,00	30,00	5,00	11,00	1,9
626103-0801-050	8,00	50,00	50,00	5,00	5,00	2,1
626103-0801-070	8,00	70,00	70,00	5,00	5,00	2,6
626103-0800-100	8,00	100,00	100,00	5,00	5,00	2,7
626103-0801-125	8,00	125,00	125,00	5,00	5,00	2,9

More sizes on request.

Styli with Sphere / Injection Moulded

With these new plastic coated styli, Carl Zeiss 3D Automation breaks totally new ground in the styli production for coordinate measurement machines. Via a high pressure injection moulding, we have joined the bending resistant and light carbon fibre shaft firmly with the titanium thread.

That way we have achieved two major goals for your benefit.

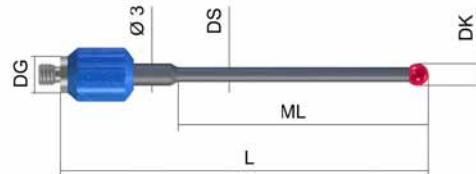
One - the cost-efficient production results in attractive prices for our customers.

Two - no special tools are needed for the assembly of the styli and you can exchange them fast and easily.



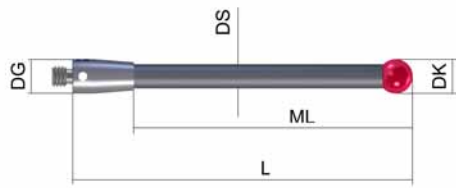
Single Styli / Ruby Sphere

These innovative styli with plastic coated thread are a cost-saving alternative to standard styli. Their carbon fibre shaft is tipped with a ruby sphere and has been especially designed for the use with the VAST XXT Probe.



Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0207-020	2,00	20,00	8,00	1,00	5,00	1,0
626103-0207-025	2,00	25,00	13,00	1,00	5,00	1,0
626103-0207-030	2,00	30,00	18,00	1,00	5,00	1,0
626103-0307-030	3,00	30,00	18,00	2,00	5,00	1,1
626103-0307-040	3,00	40,00	28,00	2,00	5,00	1,2
626103-0307-050	3,00	50,00	38,00	2,00	5,00	1,2
626103-0307-061	3,00	60,50	50,50	2,00	5,00	1,2
626103-0507-040	5,00	40,00	30,00	3,00	5,00	1,5
626103-0507-050	5,00	50,00	40,00	3,00	5,00	1,6
626103-0507-060	5,00	60,00	50,00	3,00	5,00	1,7
626103-0507-075	5,00	75,00	65,00	3,00	5,00	1,9
626103-0807-040	8,00	40,00	30,00	3,00	5,00	2,2

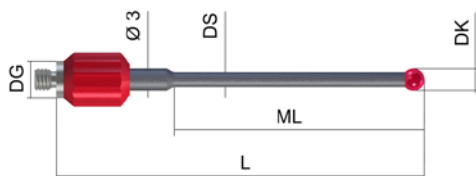
Reference Styli



Reference styli M3 XXT are marked with a red dot.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0501-030	5,00	30,00	21,00	3,50	5,00	1,1
626103-0501-050	5,00	50,00	41,00	3,50	5,00	1,4

Reference Styli Injection Moulded



Injection moulded reference styli M3 XXT have a red base.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0527-030	5,00	30,00	20,00	3,00	5,00	1,3
626103-0527-050	5,00	50,00	40,00	3,00	5,00	1,6

Diamond!Scan Diamond Styli

Diamond is the hardest material known in the world. Due to its outstanding properties, it opens up completely new applications for scanning of extremely hard or soft materials. When scanning soft aluminum alloys with Diamond!Scan styli, no material build-up occurs. When scanning hard ceramics or cast iron, no wear can be observed on the sphere.

Test Diamond!Scan and profit from its advantages:

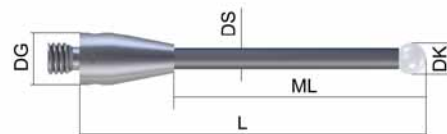
- less down time of your cmm due to fewer changes of used styli.
- More stable and confident measuring processes, because the sphere does not change its shape.



Diamond!scan

ThermoFit / Diamond Sphere

Scanning stylus with ThermoFit shaft and diamond sphere. The deviation from the perfect sphere is below 0,25 μm . The diameter tolerance is $\pm 20 \mu\text{m}$. Special lengths can be provided upon request.



Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0309-033	3,00	33,00	24,00	2,00	5,00	0,7
626103-0309-040	3,00	40,00	31,00	2,00	5,00	0,8
626103-0309-050	3,00	50,00	41,00	2,00	5,00	0,8

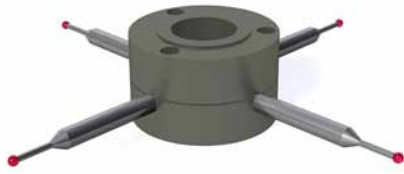
More lengths on request.



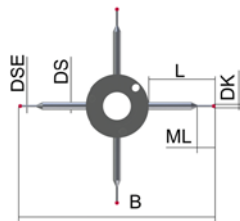
Diamond

- the expert for extreme scanning
- no wear
- no material build-up
- visible productivity





Star styli



With this clamping system for fixed star styli, extremely light star styli can be built up. The styli are fixed on a retainer and will be fastened in the desired angle position by a clamping screw or a clamping stylus. The star stylus can be mounted on a TL1, TL3 adapter plate with a stylus extension.

Art-Nr	DK	L	ML	DS	DSE	B	DG	weight (g)
626103-0030-016	0,30	4,00	2,30	1,00	0,20	16,00	5,00	0,9
626103-0030-025	0,30	8,50	2,30	1,00	0,20	25,00	5,00	1,1
626103-0050-016	0,50	4,00	2,30	1,00	0,30	16,00	5,00	0,9
626103-0050-025	0,50	8,50	2,30	1,00	0,30	25,00	5,00	1,2
626103-0060-018	0,60	5,00	4,60	1,00	0,40	18,00	5,00	0,9
626103-0060-025	0,60	8,50	4,60	1,00	0,40	25,00	5,00	1,1
626103-0080-018	0,80	5,00	4,80	1,00	0,60	18,00	5,00	0,8
626103-0080-025	0,80	8,50	4,80	1,00	0,60	25,00	5,00	1,0
626103-0100-018	1,00	5,00	5,00	0,80		18,00	5,00	0,9
626103-0100-025	1,00	8,50	5,00	1,00	0,80	25,00	5,00	1,1
626103-0150-018	1,50	5,00	5,00	1,00		18,00	5,00	1,0
626103-0150-025	1,50	8,50	8,50	1,00		25,00	5,00	1,1
626103-0200-018	2,00	5,00	5,00	1,00		18,00	5,00	0,9
626103-0200-025	2,00	8,50	8,50	1,00		25,00	5,00	1,1

Accessories

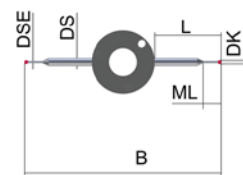
626109-9140-000	set up device Vast XXT
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT

NEW!



T-styli

With this clamping system for fixed T-styli, extremely light T-styli can be built up. The styli are fixed on a retainer and will be fastened in the desired angle position by a clamping screw or a clamping stylus. The T-stylus can be mounted on a TL1, TL3 adapter plate with a stylus extension.



Art-Nr	DK	L	ML	DS	DSE	B	DG	weight (g)
626103-0030-216	0,30	4,00	2,30	1,00	0,20	16,00	5,00	0,9
626103-0030-225	0,30	8,50	2,30	1,00	0,20	25,00	5,00	1,1
626103-0050-216	0,50	4,00	2,30	1,00	0,30	16,00	5,00	0,9
626103-0050-225	0,50	8,50	2,30	1,00	0,30	25,00	5,00	1,2
626103-0060-218	0,60	5,00	4,60	1,00	0,40	18,00	5,00	0,9
626103-0060-225	0,60	8,50	4,60	1,00	0,40	25,00	5,00	1,1
626103-0080-218	0,80	5,00	4,80	1,00	0,60	18,00	5,00	0,8
626103-0080-225	0,80	8,50	4,80	1,00	0,60	25,00	5,00	1,0
626103-0100-218	1,00	5,00	5,00	0,80		18,00	5,00	0,9
626103-0100-225	1,00	8,50	5,00	1,00	0,80	25,00	5,00	1,1
626103-0150-218	1,50	5,00	5,00	1,00		18,00	5,00	1,0
626103-0150-225	1,50	8,50	8,50	1,00		25,00	5,00	1,1
626103-0200-218	2,00	5,00	5,00	1,00		18,00	5,00	0,9
626103-0200-225	2,00	8,50	8,50	1,00		25,00	5,00	1,1

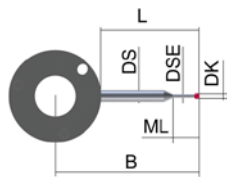
Accessories

626109-9140-000	set up device Vast XXT
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT



NEW!

L-styli



With this clamping system for fixed L-styli, extremely light L-styli can be built up. The styli are fixed on a retainer and will be fastened in the desired angle position by a clamping screw or a clamping stylus. The L-stylus can be mounted on a TL1, TL3 adapter plate with a stylus extension.

Art-Nr	DK	L	ML	DS	DSE	B	DG	weight (g)
626103-0030-416	0,30	4,00	2,30	1,00	0,20	8,00	5,00	0,8
626103-0030-425	0,30	8,50	2,30	5,00	0,20	12,50	5,00	1,0
626103-0050-416	0,50	4,00	2,30	1,00	0,30	8,00	5,00	0,8
626103-0050-425	0,50	8,50	2,30	1,00	0,30	12,50	5,00	1,0
626103-0060-418	0,60	5,00	4,60	1,00	0,40	9,00	5,00	0,8
626103-0060-425	0,60	8,50	4,60	1,00	0,40	12,50	5,00	1,0
626103-0080-418	0,80	5,00	4,80	1,00	0,60	9,00	5,00	0,7
626103-0080-425	0,80	8,50	4,80	1,00	0,60	12,50	5,00	0,9
626103-0100-418	1,00	5,00	5,00	0,80		9,00	5,00	0,8
626103-0100-425	1,00	8,50	5,00	1,00	0,80	12,50	5,00	0,9
626103-0150-418	1,50	5,00	5,00	1,00		9,00	5,00	0,8
626103-0150-425	1,50	8,50	8,50	1,00		12,50	5,00	1,0
626103-0200-418	2,00	5,00	5,00	1,00		9,00	5,00	0,8
626103-0200-425	2,00	8,50	8,50	1,00		12,50	5,00	1,0

Accessories

626109-9140-000	set up device Vast XXT
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT

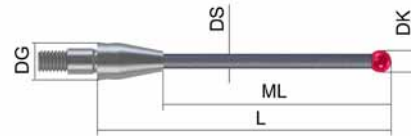
Fix Star Styli / Light

With this clamping system for star styli, extremely light star styli can be built. The lateral styli are fixed on a retainer and will be fastened in the desired angle position by a clamping screw or a clamping stylus. The star styli can be mounted on a TL1 or TL3 adapter plate with a stylus extension.



Clamping Styli

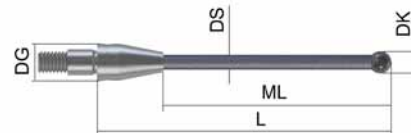
These styli can be used to clamp cubes or joints of the M3 XXT styli system. The shaft is made of ThermoFit carbon fibre. The sphere is made of ruby.



Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0301-020	3,00	20,00	11,00	2,00	5,00	0,7
626103-0301-030	3,00	30,00	21,00	2,00	5,00	0,8
626103-0301-040	3,00	40,00	31,00	2,00	5,00	0,8

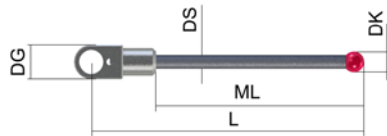
Clamping Styli / Silicon Nitride

These styli can be used to clamp cubes or joints of the M3 XXT styli system. The shaft is made of ThermoFit carbon fibre. The sphere is made of silicon nitride.



Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0311-020	3,00	20,00	11,00	2,00	5,00	0,7
626103-0311-030	3,00	30,00	21,00	2,00	5,00	0,8
626103-0311-040	3,00	40,00	31,00	2,00	5,00	0,8

Styli for 1/4 Star Probe



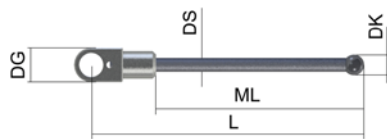
These styli are used to assemble a 1/4-star stylus or a L-shaped stylus. A clamping stylus or a clamping screw is used for this purpose. The shaft is made of ThermoFit carbon fibre and the sphere is made of ruby.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0302-020	3,00	20,00	11,00	2,00	5,00	0,8
626103-0302-030	3,00	30,00	21,00	2,00	5,00	0,9
626103-0302-040	3,00	40,00	31,00	2,00	5,00	1,0

Accessories

626103-0301-020	clamp stylus with thread, M3 XXT, ThermoFit
626103-0301-040	clamp stylus with thread, M3 XXT for star stylus set
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT
626103-0301-030	clamp stylus with thread, M3 XXT for star stylus-set

Styli for 1/4 Star Probe / Silicon Nitride



These styli are used to assemble a 1/4-star stylus or a L-shaped stylus. A clamping stylus or a clamping screw is used for this purpose. The shaft is made of ThermoFit carbon fibre and the sphere is made of silicon nitride.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0312-020	3,00	20,00	11,00	2,00	5,00	0,8
626103-0312-030	3,00	30,00	21,00	2,00	5,00	0,9
626103-0312-040	3,00	40,00	31,00	2,00	5,00	1,0

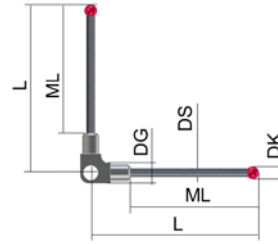
Ruby

Styli with ruby spheres are commonly used for all standard applications. Ruby is an extremely hard material and can be ground into highly accurate spheres.



Styli for 1/2 Star Probe 90°

These styli are used to assemble a 1/2-star stylus. A clamping stylus or a clamping screw is used for this purpose. The shaft is made of ThermoFit carbon fibre and the sphere is made of ruby.



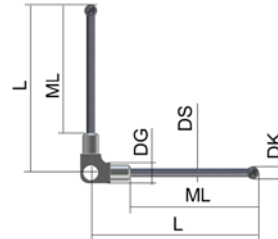
Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0303-020	3,00	20,00	11,00	2,00	5,00	1,4
626103-0303-030	3,00	30,00	21,00	2,00	5,00	1,5
626103-0303-040	3,00	40,00	31,00	2,00	5,00	1,6

Accessories

626103-0301-020	clamp stylus with thread, M3 XXT, ThermoFit
626103-0301-040	clamp stylus with thread, M3 XXT for star stylus set
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT
626103-0301-030	clamp stylus with thread, M3 XXT for star stylus-set

Styli for 1/2 Star Probe 90° / Silicon Nitride

These styli are used to assemble a 1/2-star stylus. A clamping stylus or a clamping screw is used for this purpose. The shaft is made of ThermoFit carbon fibre and the sphere is made of silicon nitride.



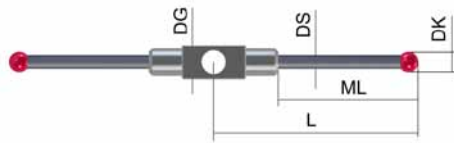
Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0313-020	3,00	20,00	11,00	2,00	5,00	1,4
626103-0313-030	3,00	30,00	21,00	2,00	5,00	1,5
626103-0313-040	3,00	40,00	31,00	2,00	5,00	1,6



Silicon nitride

Styli with silicon nitride spheres are an alternative to styli with ruby spheres. Unlike ruby, silicon nitride is polycrystalline and while not being as hard as ruby, it has a higher pressure resistance. This has a positive effect on its friction behaviour when scanning very hard or very soft materials.

Styli for 1/2 Star Probe 180°



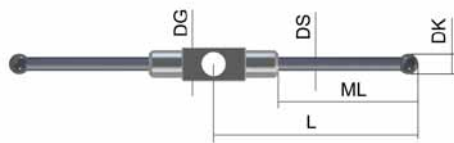
These styli are used to assemble a 1/2-star stylus or a T-shaped stylus. A clamping stylus or a clamping screw is used for this purpose. The shaft is made of ThermoFit carbon fibre and the sphere is made of ruby.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0304-020	3,00	20,00	11,00	2,00	5,00	1,4
626103-0304-030	3,00	30,00	21,00	2,00	5,00	1,5
626103-0304-040	3,00	40,00	31,00	2,00	5,00	1,6

Accessories

626103-0301-020	clamp stylus with thread, M3 XXT, ThermoFit
626103-0301-040	clamp stylus with thread, M3 XXT for star stylus set
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT
626103-0301-030	clamp stylus with thread, M3 XXT for star stylus-set

Styli for 1/2 Star Probe 180° / Silicon Nitride



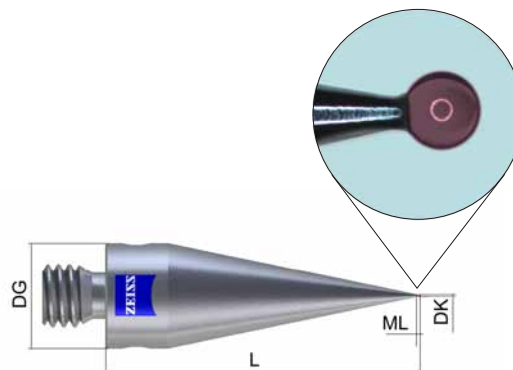
These styli are used to assemble a 1/2-star stylus or a T-shaped stylus. A clamping stylus or a clamping screw is used for this purpose. The shaft is made of ThermoFit carbon fibre and the sphere is made of silicon nitride.

Art-Nr	DK	L	ML	DS	DG	weight (g)
626103-0314-020	3,00	20,00	11,00	2,00	5,00	1,4
626103-0314-030	3,00	30,00	21,00	2,00	5,00	1,5
626103-0314-040	3,00	40,00	31,00	2,00	5,00	1,6

Ruby Sphere

The cone-shaped shaft of these styli gives them a high stiffness, while being long and having a small sphere diameter.

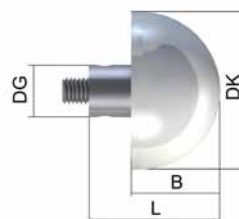
These styli have been especially developed for the probe head VAST XXT TL1 and require small calibration spheres. They can only be used with reduced measuring force and reduced dynamics.



Art-Nr	DK	L	ML	DG	weight (g)
626103-0010-015	0,12	15,0	0,12	5,00	0,7
626103-0020-015	0,20	15,00	0,20	5,00	0,7
626103-0030-015	0,30	15,00	0,30	5,00	0,7

Hemisphere

By applying large spheres, flaws in rough surfaces can be evened out. Hollow ceramic hemispheres are ideal for measurements where low weight is required.

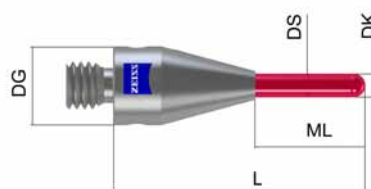


Art-Nr	DK	L	B	DG	weight (g)
626103-1200-012	12,00	12,00	8,00	5,00	2,3
626103-1500-012	15,00	12,00	9,00	5,00	3,3
626103-2000-019	20,00	18,50	13,00	5,00	5,5

Ball Cylinder Styli

NEW!

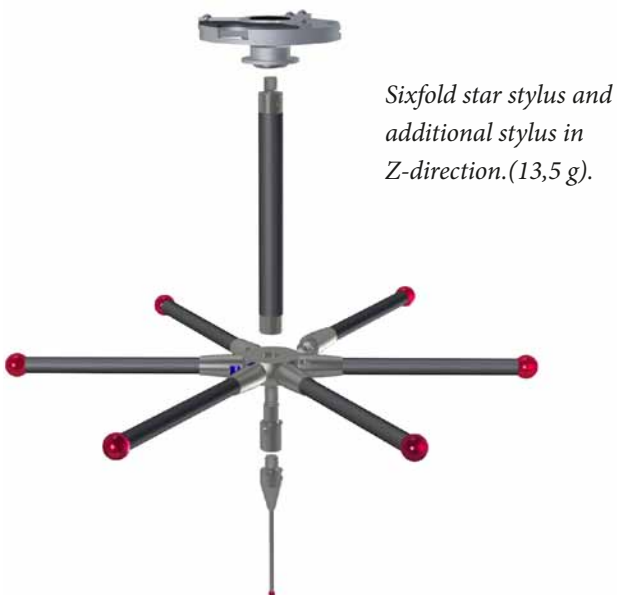
These styli have a cylindrical contact element onto which a hemisphere is attached.



Art-Nr	DK	L	ML	DS	DG	weight (g)
626113-0100-016	1,00	16,00	7,00	1,00	5,00	0,7
626113-0151-016	1,50	16,00	7,00	1,50	5,00	0,6

Styli systems - explore the possibilities

Some examples for TL3 styli systems



Measuring hardly accessible areas on your workpiece

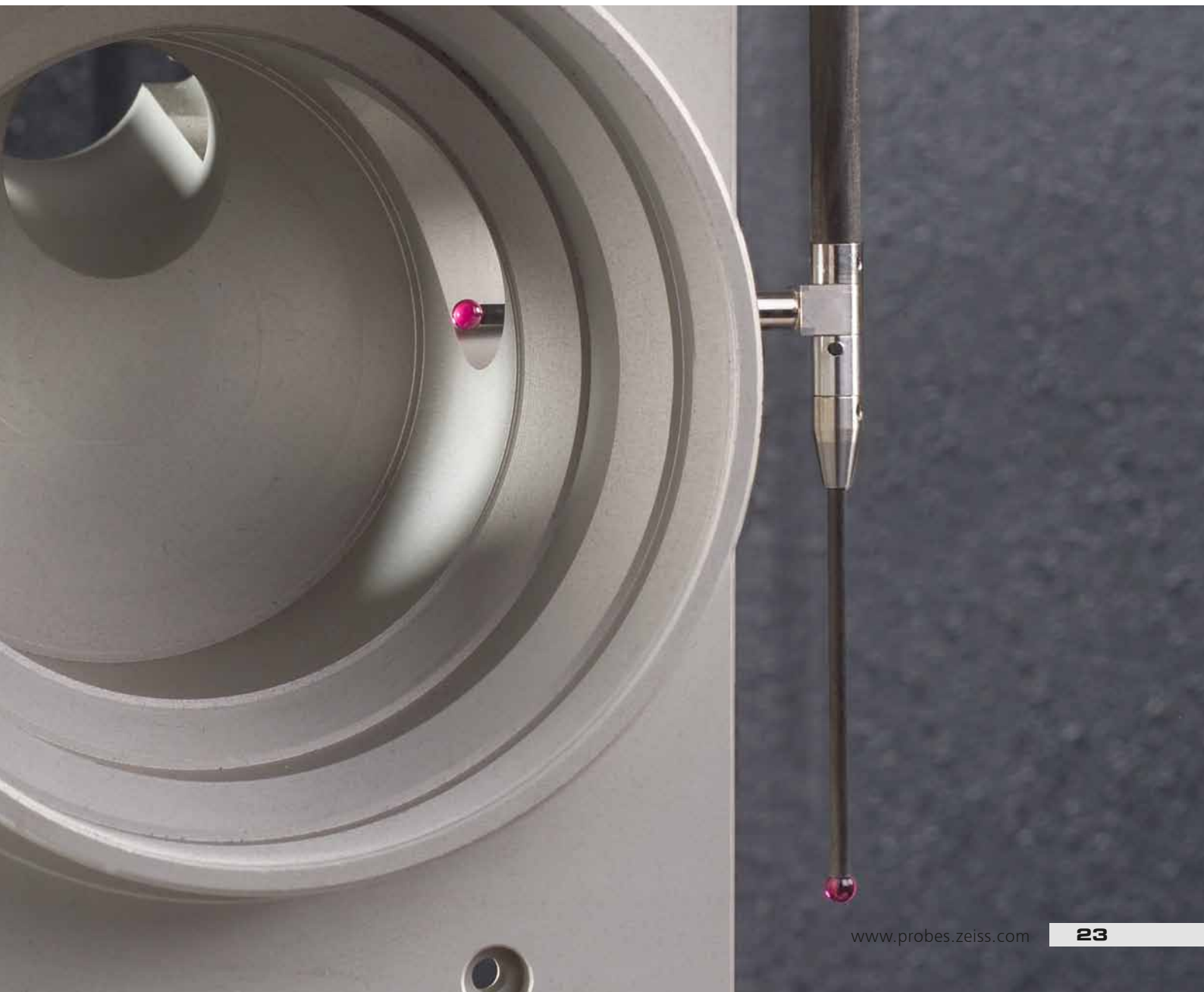
Stylus extensions enable the assembly of long styli and the measuring of hardly accessible areas on your workpiece. They are fixed directly to the adapter plate.

Extensions for the scanning probe VAST® XXT have been especially designed for the requirements of this measurement system. They feature a larger and more stable, high strength titanium alloy base, which gives them the highest possible stiffness at lightest possible weight. All our XXT extensions are made from our own carbon fibre rods. Their

weight is a lot less compared with that of standard steel or titanium extensions. This makes the construction of long styli systems possible, without exceeding the maximum load of the probe.

Choose from our large selection of extensions that ranges from 20 mm to 150 mm length. We will gladly produce special length extensions for you, according to your specifications.

With an extension you can for example reach and measure cranks in deep boreholes.



ThermoFit



These light weight and high stiffness probe extensions are made of a special ThermoFit carbon fibre tube and two high quality titanium end caps. They have been designed especially for the Zeiss VAST XXT probe head.

Art-Nr	LE	DGE	weight (g)
626103-5020-000	20,00	5,00	1,2
626103-5025-000	25,00	5,00	1,3
626103-5030-000	30,00	5,00	1,3
626103-5040-000	40,00	5,00	1,4
626103-5050-000	50,00	5,00	1,5
626103-5060-000	60,00	5,00	1,7
626103-5065-000	65,00	5,00	1,7
626103-5075-000	75,00	5,00	1,7
626103-5080-000	80,00	5,00	1,8
626103-5100-000	100,00	5,00	2,0
626103-5130-000	130,00	5,00	2,5
626103-5150-000	150,00	5,00	2,7

Accessories

626109-0018-000	hook wrench DG5
000000-0015-323	pin wrench, 1,1
626109-0026-000	XXT-styli holding device

Service

Do you need a custom-made stylus?
Call us or send us an email.
We will be happy to assist you.



One stylus for all measurement needs

With the help of various connecting elements, you can join styli and extensions into styli systems. Not having to exchange styli saves time and you can measure your workpieces fast and efficiently, even the difficult to access areas. The goal is to merge as many styli as possible into one styli system.

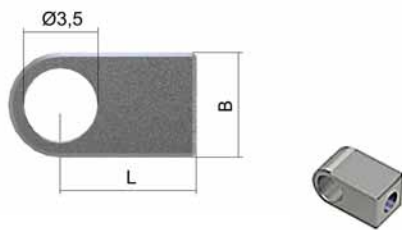
With cubes you can easily build star styli and rectangular combinations. Flexible elements like swivel pieces or buckling elements, are used to assemble angular styli systems. With our adjustable articulation links, even sloped characteristics can be measured without difficulty.



With our assortment of styli and adapters, there is nearly no limit to what you can do. Choose from our large range of standard products and especially for the VAST® XXT designed cubes and clamping pieces.

You are looking for a special adapter? You need an angle piece to measure a particular characteristic of your workpiece? Send us an inquiry. Our CAD engineers will help you find a solution.

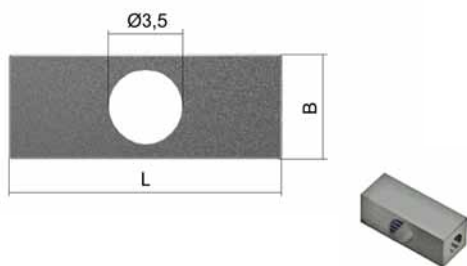
Cube, M3 XXT, 90 Degree, Single



This cube can be mounted to a VAST XXT extension or a TL2 adapter plate by using a clamping screw or a clamping stylus. One M3 XXT styli can be laterally attached.

Art-Nr	L	B	Gew.(g)
626103-6110-001	6,50	5,00	0,6

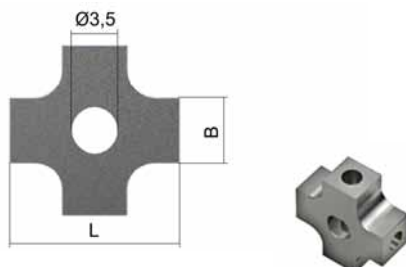
Cube, M3 XXT, 180 Degree, Double



This cube can be mounted to a VAST XXT extension or a TL2 adapter plate by using a clamping screw or a clamping stylus. Two M3 XXT styli can be laterally attached.

Art-Nr	L	B	Gew.(g)
626103-6110-002	13,00	5,00	1,1

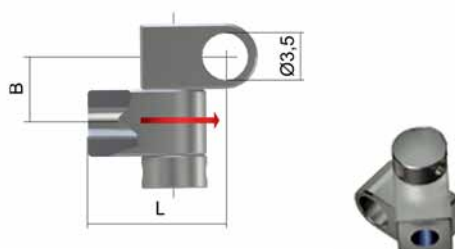
Star Cube, M3 XXT



This star cube can be mounted to a VAST XXT extension or a TL2 adapter plate by using a clamping screw or a clamping stylus. Four M3 XXT styli can be laterally attached.

Art-Nr	L	B	Gew.(g)
626103-6110-003	13,00	5,00	1,8

Knuckle Joint, M3 XXT

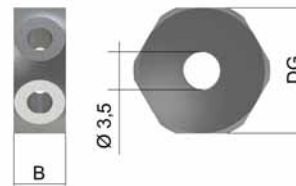


This joint can be attached to a TL2 adapter plate or a TL1 adapter plate with an extension by using a clamping screw or a clamping stylus. An angle can be adjusted and a M3 XXT stylus can be mounted.

Art-Nr	L	B	Gew.(g)
626103-6180-001	10,00	5,00	1,7

Star Cube 6-sided, M3 XXT

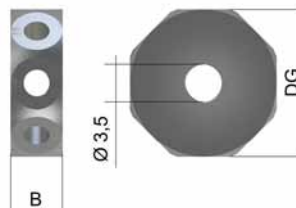
This star cube can be mounted to a VAST XXT extension or a TL2 adapter plate by using a clamping screw or a clamping stylus. Six M3 XXT styli can be laterally attached.



Art-Nr	B	DG	Gew.(g)
626103-6110-006	5,00	12,00	1,8

Star Cube 8-sided, M3 XXT

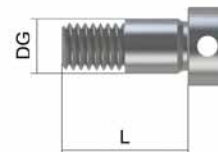
This star cube can be mounted to a VAST XXT extension or a TL2 adapter plate by using a clamping screw or a clamping stylus. Eight M3 XXT styli can be laterally attached.



Art-Nr	B	DG	Gew.(g)
626103-6110-007	5,00	14,00	2,3

Clamping Screws

This screw is used to assemble cubes or knuckle joints to a TL2 adapter plate or a TL1/TL3 adapter plate with an extension.



Art-Nr	L	DG	Gew.(g)
626103-6110-004	8,00	3,50	0,5

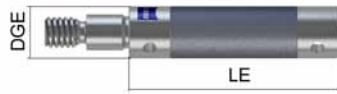
Clamping Screws with M3

This special screw is used to assemble cubes or knuckle joints to a TL2 adapter plate or a TL1/TL3 adapter plate with an extension. An additional M3 XXT stylus can be attached, e.g. to assemble a star stylus.



Art-Nr	L	DG	Gew.(g)
626103-6110-005	8,00	3,50	0,7

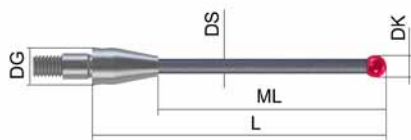
Clamping Extension



This clamping extension can be used to install cubes, joints or styli of the M3 XXT clamping system. Light and bending resistant design was especially considered during material selection. The base body is made of a titanium alloy. The tube is made of light and bending resistant carbon fiber and is exclusively made for us.

Art-Nr	LE	DGE	Gew.(g)
626103-5020-010	20,00	5,00	1,3
626103-5045-010	45,00	5,00	1,5

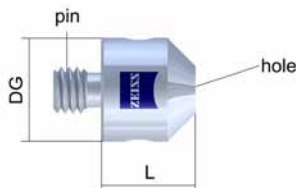
Clamping Styli



These styli can be used to clamp cubes or joints of the M3 XXT stylus system. The shaft is made of ThermoFit carbon fibre. The sphere is made of ruby.

Art-Nr	DK	L	ML	DS	DG	Gew.(g)
626103-0301-020	3,00	20,00	11,00	2,00	5,00	0,70
626103-0301-030	3,00	30,00	21,00	2,00	5,00	0,75
626103-0301-040	3,00	40,00	31,00	2,00	5,00	0,80

Adapter



Thread adapters allow you to connect components from different thread systems.

Art-Nr	Von (Bolzen)	Auf (Bohrung)	L	DG	Gew.(g)
602030-8341-000	M3	M2	5,00	4,00	0,50
602030-8345-000	M2	M3	5,00	4,00	1,00
602030-0315-000	M5	M3	10,00	11,00	5,00
602030-0215-000	M5	M2	10,00	11,00	5,00

The perfect start

Styli kits are the ideal initial equipment for your coordinate measurement machine. Inspired by our own measuring experience – designed to enhance your measuring experience, our styli kits contain a multitude of carefully selected components for the assembly of styli systems.

We offer you perfectly matched and comprehensive kits for the measurement of large and small work pieces, as well as kits for star styli with a fixed cube. Also included are specific tools that guarantee a fast and secure assembly.

All individual parts of the kits are available from stock.

Place your orders online at

www.probes.zeiss.com



Styli kit 1, VAST XXT, for small workpieces



This styli kit is used for the Zeiss VAST XXT scanning probe head. It contains 9 pieces ideal for measuring small workpieces.

Art-Nr	Description
626103-9021-000	styli kit 1, VAST XXT, for small workpieces
Accessories	
626109-0018-000	hook wrench DG5
626103-0300-050	stylus with thread, M3 XXT, ThermoFit; DK3, L50
626109-0026-000	XXT-styli holding device
000000-0015-323	pin wrench, 1,1
626113-0150-030	stylus with thread, M3 XXT, DK1,5, L30
626103-0500-075	stylus with thread, M3 XXT, ThermoFit, DK5, L75, SiN
626103-0500-050	stylus with thread, M3, XXT, ThermoFit, DK5, L50
626103-0300-033	stylus with thread, M3 XXT, ThermoFit, DK3, L33

Styli kit 2, VAST XXT, for large workpieces



This styli kit is used for the Zeiss VAST XXT scanning probe head. It contains 9 pieces ideal for measuring large workpieces.

Art-Nr	Description
626103-9022-000	styli kit 2, VAST XXT, for large workpieces
Accessories	
626109-0018-000	hook wrench DG5
626103-0300-050	stylus with thread, M3 XXT, ThermoFit, DK3, L50
626103-5050-000	stylus extension, M3 XXT, ThermoFit, L50
626103-0600-100	stylus with thread, M3 XXT, ThermoFit, DK6, L100
626103-0800-125	stylus with thread, M3 XXT, ThermoFit, DK8, L125
000000-0015-323	pin wrench, 1,1
626103-0500-075	stylus with thread, M3 XXT, ThermoFit, DK5, L75, SiN
626109-0026-000	XXT-styli holding device

Star Stylus Kit, VAST XXT

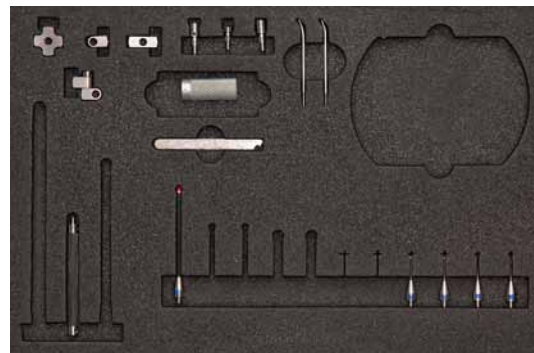
With this styli kit, a star stylus (1/4 or 1/2-star) can be assembled and attached to the Zeiss VAST XXT probe head. It contains 7 pieces. The sphere diameter is 3 mm and the length of the styli is 40 mm.



Art-Nr	Description
626103-9023-000	star stylus kit, VAST XXT
Accessories	
626109-0018-000	hook wrench DG5
626103-5050-000	stylus extension, M3 XXT, ThermoFit, L50
626103-0301-040	clamp stylus with thread, M3 XXT for star stylus set, DK3, L40
626109-0026-000	XXT-styli holding device
000000-0015-323	pin wrench, 1,1
626103-0302-040	1/4 stylus, M3, XXT, for star stylus set, DK3, L40
626103-0303-040	1/2 stylus 90 deg., M3 XXT for star stylus set, DK3, L40

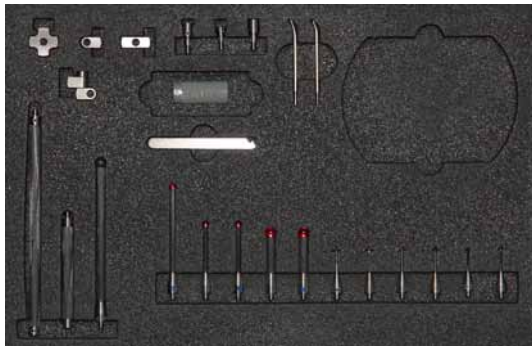
Styli Kit 4, VAST XXT, small

This styli kit contains 16 pieces to assemble various styli systems for the Zeiss VAST XXT scanning probe head.



Art-Nr	Description
626103-9024-000	styli kit 4, VAST XXT, small
Accessories	
626109-0018-000	hook wrench DG5
626103-0300-050	stylus with thread, M3 XXT, ThermoFit, DK3, L50
626113-0050-013	stylus with thread, M3 XXT, shouldered, DK0,5, L13, ML4, MLE2,3
626103-5050-000	stylus extension, M3 XXT, ThermoFit, L50
626103-6180-001	knuckle joint, M3 XXT, titanium
000000-0015-323	pin wrench, 1,1
626103-6110-001	cube, M3XXT, 90 degree, single
626103-6110-003	cube, M3XXT, star
626103-6110-002	cube, M3XXT, 180 degree, double
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT
626109-0026-000	XXT-styli holding device
626113-0080-014	stylus with thread, M3 XXT, DK0,8, L14

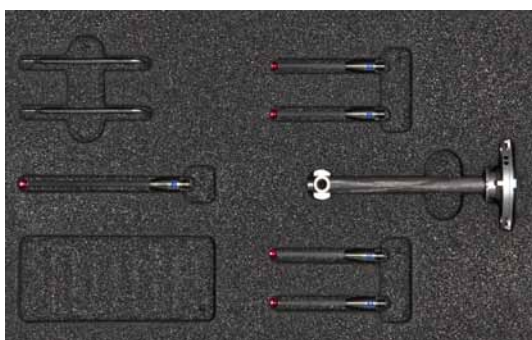
Styli Kit 5, VAST XXT, large



This styli kit contains 25 pieces to assemble various styli systems for the Zeiss VAST XXT scanning probe head.

Art-Nr	Description
626103-9025-000	styli kit 5, VAST XXT, large
Accessories	
626109-0018-000	hook wrench DG5
626103-0300-050	stylus with thread, M3 XXT, ThermoFit, DK3, L50
626103-5100-000	stylus extension, M3 XXT, ThermoFit, L100
626113-0200-020	stylus with thread, M3 XXT, DK2, L20
626109-0026-000	XXT-styli holding device
000000-0015-323	pin wrench, 1,1
626103-5050-000	stylus extension, M3 XXT, ThermoFit, L50
626103-6110-001	cube, M3XXT, 90 degree, single
626103-6110-003	cube, M3XXT, star
626103-6110-002	cube, M3XXT, 180 degree, double
626103-0500-075	stylus with thread, M3 XXT, ThermoFit, DK5, L75
626103-6110-004	clamp screw, M3XXT
626103-0300-033	stylus with thread, M3 XXT, ThermoFit, DK3, L33
626103-6110-005	clamp screw with female thread, M3XXT
626113-0100-020	stylus with thread, M3 XXT, shouldered, DK1,5, L20
626113-0150-020	stylus with thread, M3 XXT, DK1,5, L20

Star Stylus Kit TL1, TL3

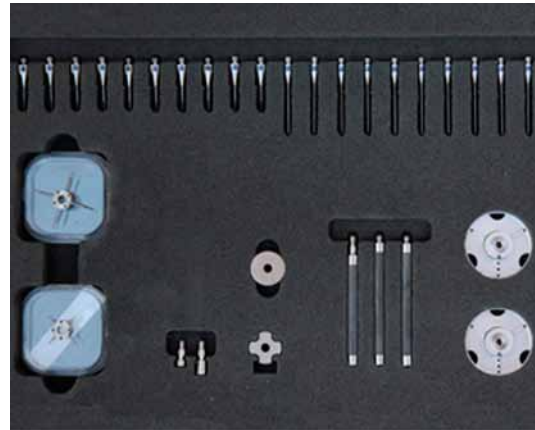


Star styli kit for the XXT probes TL1 and TL3. This kit contains 8 parts, including an adapter plate, to easily create a fixed T-, L- or star stylus.

Art-Nr	Description
626103-9031-000	stylus holder kit, ZSH-28-A-55-M3, star styli
626103-9033-000	stylus holder kit, ZSH-28-B-55-M3, star styli
Accessories	
626103-0300-033	stylus with thread, M3 XXT, ThermoFit, DK3, L33
626103-0300-050	stylus with thread, M3 XXT, ThermoFit, DK3, L50
000000-0015-323	pin wrench, 1,1
626103-8033-055	stylus holder ZSH-28-B-55-5X-TL3-M3

Gear Kit XXT TL3

This styli kit contains 30 pieces to assemble various styli systems ideal for gear measurement.



Art-Nr	Description
626103-9034-000	star stylus kit XXT TL3 for gear measurement
Accessories	
626103-5050-000	stylus extension, M3 XXT, ThermoFit, L50
620161-8075-000	stylus holder ZSH-28-B-0-M3 for VAST XXT TL3
626103-5045-010	clamping extension with thread, M3 XXT, ThermoFit, LE45
626113-0080-020	stylus with thread, M3 XXT, shouldered, DK0,8, L20, ML11, MLE4,8
626103-6110-003	cube, M3XXT, star
626113-0150-030	stylus with thread, M3 XXT, DK1,5, L30
626103-6110-005	clamp screw with female thread, M3XXT
626103-6110-004	clamp screw, M3XXT
626103-6110-007	cube, M3 XXT, titanium
626103-0050-025	star stylus with cube, M3 XXT, shouldered, DK0,5, L8,5, B25
626103-0050-016	star stylus with cube, M3 XXT, shouldered, DK0,5, L4, B16



Gear Measurements

We offer a wide variety of different star styli designed and optimized for measuring gears.



Learn all about your coordinate measurement machine

Carl Zeiss Industrielle Messtechnik GmbH
Carl-Zeiss-Str.22
D-73447 Oberkochen
www.zeiss.de/imt

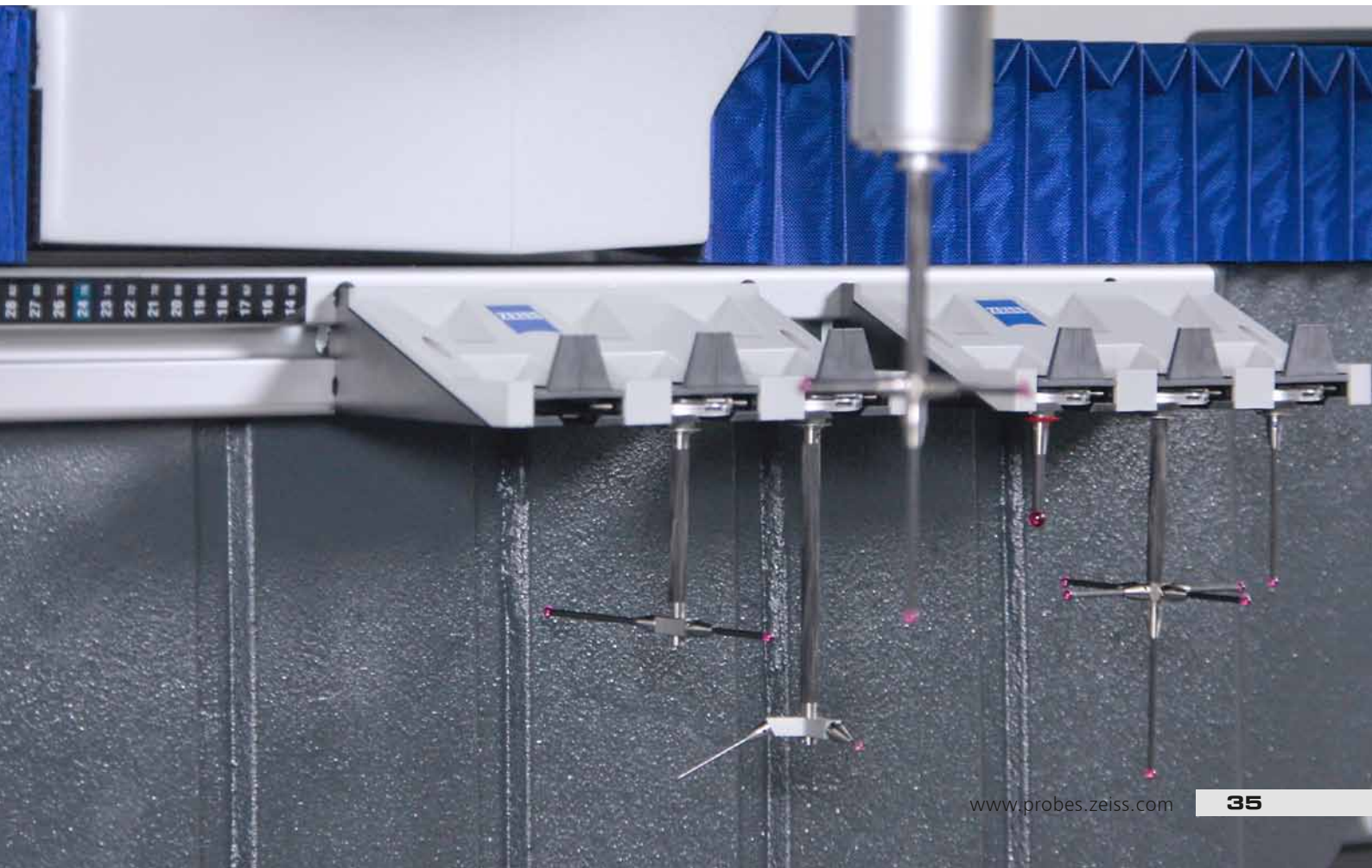
Exchanging styli automatically

To measure all characteristics of a work piece, it is often necessary to employ several styli systems. During a measurement process, your CMM will exchange these styli systems automatically. As a basis for additional styli systems, more adapter plates are needed.

The VAST® XXT probe requires specially encoded adapter plates. We offer you several adapter plates

incl. an ID-chip: standard adapter plates, on which styli and extensions can be attached, reference plates to hold the reference stylus and special adapter plates with a cube attached.

Please heed the length and weight restrictions of your XXT probe, when assembling styli systems.



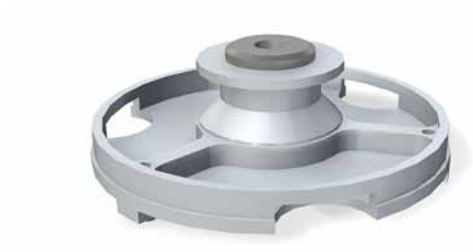
VAST XXT TL1



These adapter plates are with encoded ID-chip. The TL1 plate can only be used with a VAST XXT TL1 probe head.

Art-Nr	Description
620161-8055-000	stylus holder ZSH-28-A-0-M3 for VAST XXT TL1

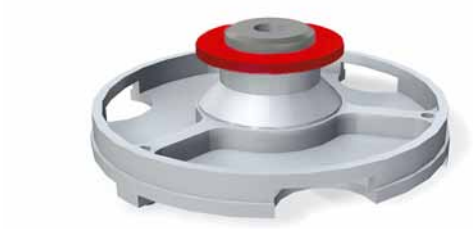
VAST XXT TL3



These adapter plates are with encoded ID-chip. The TL3 plate can only be used with a VAST XXT TL3 probe head.

Art-Nr	Description
620161-8075-000	stylus holder ZSH-28-B-0-M3 for VAST XXT TL3

Reference Stylus Holder VAST XXT

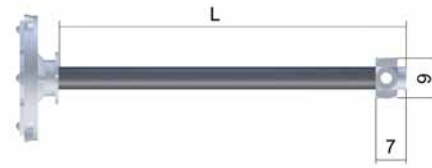


The reference plate and the reference stylus are used for calibration. The reference plate is encoded with an ID-chip and has a red marking.

Art-Nr	Bezeichnung
620161-8078-000	reference stylus holder ZSH-28-B-REF-TL3-M3 für XXT TL3, 4,6g
620161-8058-000	reference stylus holder ZSH-28-A-REF-TL1-M3 für XXT TL1, 4,6g

VAST XXT TL1/TL3 with star adapter

With this adapter plate, extremely light star styli can be built up. A titanium cube is adjusted and fixed to the extension.



Art-Nr	system	L	weight (g)
626103-8031-055	VAST XXT TL1	55,00	6,26
626103-8033-055	VAST XXT TL3	55,00	6,26

VAST XXT TL2

These adapter plates are with ID-chip. The TL2 plate can only be used with a VAST XXT TL2 probe head.



Art-Nr	Description
620161-8065-000	stylus holder ZSH-28-B-75-M3 for VAST XXT TL2
620161-8068-000	reference stylus holder ZSH-28-B-REF-TL2-M3 for XXT TL2



Injection moulded styli

These innovative styli with plastic coated thread are easy to assemble, cost-saving and have an optimal symmetrical rigidity.



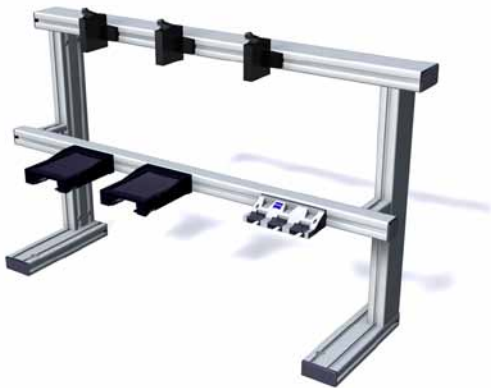
Productivity at its best

Probe racks increase the capabilities of your coordinate measuring machine. Our Multi-Sensor-Racks (MSR) store and keep all styli systems ready that you need for your measurements. The styli systems are placed in the probe sockets on the MSR. During a measuring run, the CMM acquires a new styli system and places the no-longer-needed system in the rack. This makes the MSR a prerequisite for interruption-free measuring runs.

You can freely select the number and position of the sensor and stylus slots. The height of the assembly levels can be set as needed. This provides a high degree of flexibility and you can optimally adapt the MSR to your requirements. Use our MSR for the entire range of sensors from Carl Zeiss.



Multi Sensor Rack



The Multi Sensor Rack (MSR) is an efficient and flexible probe and sensor changer for bridge type cmm. By choosing which sensor and probe sockets to mount, the new MSR types can be configured easily to your requirements. This allows total flexibility for future extensions of your cmm. The sensor change is passive, i. e. the cmm handles the change of the probe configurations. For this purpose, the MSR is placed inside the measuring range of the cmm. (Probe sockets are not included).

Art-Nr	B	H	MMZ	UPMC	Accura	Prismo	Spectrum	Contura
626100-9302-000	80	55			7/X700	7/X700		700DT/XT/G2
626100-9302-010	80	45			5/X700	5/X700	70	
626100-9302-100	80	55		85				
626100-9312-000	1000	55			7/X900	7/X900		
626100-9322-000	1100	55						1000DT/XT/G2
626100-9322-010	1100	45					1000	
626100-9322-020	1100	70						G2/U-Stone
626100-9332-000	1250	80			10/X1200	10/X1200		
626100-9342-000	1600	80			10/X1600	10/X1600		
626100-9342-010	1600	80	MMZ-G/T					

Accessories

626100-8390-000	fastening angle for MSR
626100-9303-000	additional level MSR, L=800 without probe socket
626100-9333-000	additional level MSR, L=1250 without probe socket
626100-9313-000	additional level MSR, L=1000 without probe socket
620161-8510-000	probe socket with 3 slots for VAST XXT probe adaptors
626100-9343-000	additional level MSR, L=1600 without probe socket
626100-9323-000	additional level MSR, L=1100 without probe socket

Visible Productivity!

The MSR Duplex gives you the advantages of having two complete MSR on one CMM. (Save a lot of time by storing double the amount of styli systems). To ready the second set of systems, all you have to do is to rotate the MSR Duplex.



Multi Sensor Rack mini

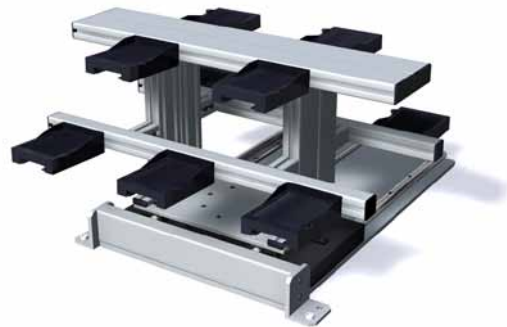
The Multi Sensor Rack (MSR) mini is a simple and flexible probe changer for coordinate measuring machines with small measuring range. (Probe sockets are not included).



Art-Nr	Description
626100-9392-000	Multi Sensor Rack mini B720/H450
Accessories	
620161-8510-000	probe socket with 3 slots for VAST XXT probe adapters

Multi Sensor Rack duplex

The Multi Sensor Rack duplex offers two MSR on one CMM. To change the current MSR, it has to be pushed out of the measuring range, rotated through 180° and replaced into the measuring range again. You can instantly continue with your measurements provided by a new set of styli.



Art-Nr	B	H	Accura	Prismo
626100-9304-000	80	48	5/X700	5/X700
626100-9314-000	1000	58	7X/900	7/X900
626100-9324-000	1250	88	10/X1200	10/X1200
Accessories				
620161-8510-000	probe socket with 3 slots for VAST XXT probe adapters			

Multi Sensor Rack O-Inspect



The Multi Sensor Rack O-Inspect can hold up to three Zeiss VAST XXT adapter plates. It will be fastened with a magnetic stand in the measuring range of the O-Inspect (delivery incl. probe socket).

Art-Nr	Description
626100-9382-000	Multi Sensor Rack O-Inspect XXT triple
626100-9382-001	Multi Sensor Rack O-Inspect XXT, triple H125

Multi Sensor Rack micro

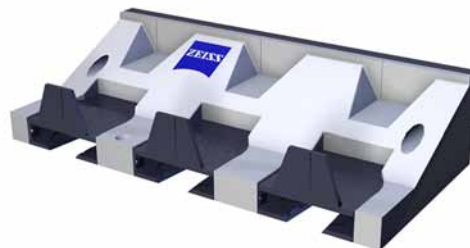


This cost-effective adapter rack is supplied complete with a 3-compartment rack space for XXT adapter plates. It is fastened directly within the measuring range of the coordinate measuring machine using two M12 screws (restriction: not suitable for DuraMax).

Art-Nr	Description
626100-9382-010	XXT Sensor Rack micro

Probe Socket VAST XXT

This probe socket can hold up to three Zeiss VAST XXT adapter plates. It can be attached to all available Zeiss Multi Sensor Racks (MSR) or directly at the DuraMax.



Art-Nr	Description
620161-8510-000	probe socket with 3 slots for VAST XXT probe adapters

Single Probe Socket VAST XXT

This probe socket can hold one Zeiss VAST XXT adapter plate.

Art-Nr	Description
620161-8511-000	probe socket with one slot for one Zeiss VAST XXT adapter plate

Multi Sensor Rack Accessories

With these additional levels and mounting brackets you can easily and flexibly expand your MSR. The width of the third level is adapted to the width of the base module. The y-axis mounting bracket allows the fastening and adjustment of the MSR along the y-axis of your cmm.



Art-Nr	Description
626100-9303-000	additional level MSR, L=800 without probe socket
626100-9313-000	additional level MSR, L=1000 without probe socket
626100-9323-000	additional level MSR, L=1100 without probe socket
626100-9333-000	additional level MSR, L=1250 without probe socket
626100-9343-000	additional level MSR, L=1600 without probe socket
626100-8390-000	fastening angle for MSR

ZEISS ProbeShop



Automated styli issuance on site

The ZEISS ProbeShop makes styli in the measuring room or the production line instantly available, whenever they are needed. The robust and automated storage system makes sure that your coordinate measuring machines never need to stand still, just because someone broke the last stylus. With its intelligent and configurable software, ProbeShop will automatically place replacement orders directly with us or notify your purchasing department about critical storage levels.

Safe and monitored storage

ProbeShop provides you with a complete overview of your styli stock and all movements therein. A comprehensive user management with various levels of authorization gives you complete control over all withdrawals. Detailed reports and evaluation tables can be generated automatically and ensure you full cost control, by enabling you to optimize your stock step-by-step.

Flexible logistics concept

ProbeShop facilitates a flexible logistics concept for your coordinate measuring machine accessories that is matched precisely to your requirements. Automated, database-supported styli issuance and storage, consignment stock, "single source" concepts: contact us to see how we can assist you to simplify your supply chain.

Email: orders@3d-net.de

Easy assembly and adjustment of star styli

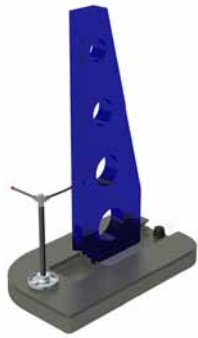
The set up device for VAST® XXT is used to fast and easily align and adjust star styli in clamping technique, based on a Zeiss VAST XXT adapter plate. To set up a stylus, the adapter plate with the attached basic extension is placed in the device. The adapter plate locks into place via a magnet. With a raster of 30°, different angularities can be preselected. Screw the stylus loosely to a cube adapter and align it towards the prism. Move the prism carefully in its track until it touches the stylus and centers it. Now tighten the screw to fix the

cube adapter to the basic extension. Meanwhile make sure that the stylus and the prism do not shift.

After only a few steps the stylus is set up and the prism can be pulled back. The adapter plate together with the stylus can now be removed from the set up device and are ready for use. An important aspect: throughout the whole process, the stylus is kept tight and clean in the set up device. Thus no delicate parts like the ID-chip can be damaged.



Set up device XXT



Set up device for star styli M3 XXT. With this device, star styli can be adjusted in 30° steps, before they are attached to your CMM. With the adapter 626109-9140-010 steps of 15° can be adjusted.

Art-Nr	Description
626109-9140-000	set up device Vast XXT
626109-9140-010	adapter 15° for set up device XXT

FixAssist VAST linear



The alignment device FixAssist VAST linear is used to hold a MT/VAST adapter plate, while mounting a styli system and to align it accurately around the cmm Z-axis and a horizontal axis. The device is delivered including a tool kit for mounting styli systems.

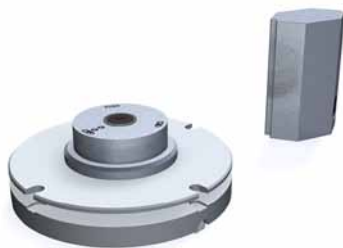
Your advantage is that the cmm is not required for pre-adjustment. FixAssist allows easy handling, which prevents damage to your probes and styli and it secures fast and reproducible styli system assembly.

Art-Nr	Description
626109-9120-000	FixAssist VAST linear, incl. tool kit

Accessories

626109-9150-000	XXT adapter set for FixAssist Linear
-----------------	--------------------------------------

XXT Adapter Set FixAssist Linear



For the adjusting of XXT styli systems with the FixAssist linear.

Consists of:

- adapter plate made of stainless steel
- magnetic adapter prism made of stainless steel

Art-Nr	Description
626109-9150-000	XXT adapter set for FixAssist Linear

Safely store your styli systems

Store your valuable styli systems clearly arranged and easily accessible in a safe place. The robust MSC Multi Sensor Cabinet is designed for use on the shop floor and in the measuring lab. The basic configuration of the MSC for VAST XXT comprises 16 MSC probe sockets on three adjustable bars. Useful accessories make it easily adaptable to your requirements and you can mount additional MSC probe sockets by yourself.

A tool tray provides the required tools for the stylus assembly. The MSC can be easily upgraded with additional storage bars.

Modular according to your needs

The MSC modular probe cabinet can be designed to your individual requirements. Select a cabinet with glass doors or the standard model with metal doors and adapt the configuration to fit your requirements.



Probe cabinet MSC for DuraMax



Multi Sensor Cabinet MSC to store styli systems, styli and accessories for VAST XXT.

Design: cabinet with sheet doors, colour: light gray RAL7035, lock, external dimensions WxDxH 1000x400x2000 mm. Incl. 2 mounting bars with 16 XXT probe sockets, 1 bar with 2 tool trays and 1 shelf. Position, height and depth of the bars are adjustable. Incl. packing

Art-Nr	Description
626100-9026-000	probe cabinet MSC for DuraMax with 16 sockets XXT
Accessories	
626100-8022-000	tool tray for probe cabinet MSC
626100-8024-000	additional level for cabinet MSC
626100-8023-000	shelf for cabinet MSC
626100-8015-000	probe socket XXT for cabinet MSC

Probe cabinet MSC, glass doors, configurable



Multi Sensor Cabinet MSC to store styli systems, styli and accessories. Peripheral equipment is configurable.

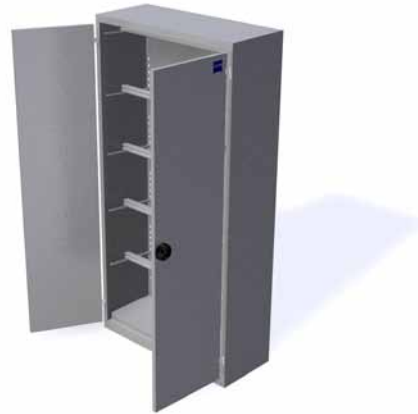
Design: cabinet with glass doors, colour: light gray RAL7035, lock, external dimensions WxDxH 1000x400x2000 mm. Incl. 5 mounting bars without probe sockets. Position, height and depth of the levels are adjustable. Incl. packing

Art-Nr	Description
626100-9015-100	probe cabinet MSC, glass doors, without sockets,configurable
Accessories	
626100-8014-000	probe socket RDS for cabinet MSC
626100-8015-000	probe socket XXT for cabinet MSC
626100-8021-000	pallet for 67 styli M5 for cabinet MSC
626100-8011-010	probe socket MT/VAST for cabinet MSC
626100-8024-000	additional level for cabinet MSC
626100-8013-000	probe socket DSE for cabinet MSC
626100-8022-000	tool tray for probe cabinet MSC
626100-8012-000	probe socket ST/ST3 for cabinet MSC
626100-8023-000	shelf for cabinet MSC

Probe cabinet MSC, configurable

Multi Sensor Cabinet MSC to store styli systems, styli and accessories. Peripheral equipment is configurable.

Design: cabinet with sheet doors, colour: light gray RAL7035, lock, external dimensions WxDxH 1000x400x2000 mm. Incl. 5 mounting bars without probe sockets. Position, height and depth of the bars are adjustable. Incl. packing



Art-Nr	Description
626100-9015-000	probe cabinet MSC, without sockets, configurable

Accessories

626100-8014-000	probe socket RDS for cabinet MSC
626100-8015-000	probe socket XXT for cabinet MSC
626100-8021-000	pallet for 67 styli M5 for cabinet MSC
626100-8011-010	probe socket MT/VAST for cabinet MSC
626100-8024-000	additional level for cabinet MSC
626100-8013-000	probe socket DSE for cabinet MSC
626100-8022-000	tool tray for probe cabinet MSC
626100-8012-000	probe socket ST/ST3 for cabinet MSC
626100-8023-000	shelf for cabinet MSC

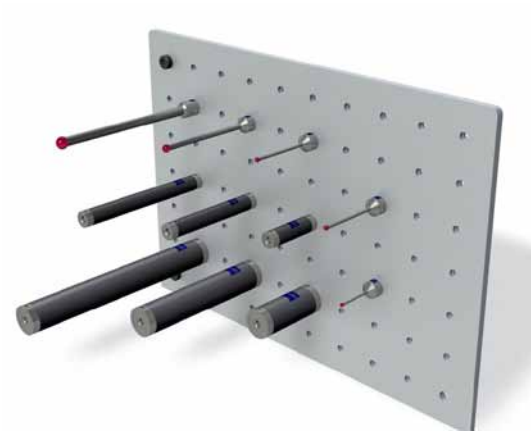
Accessories for Cabinets

With this useful accessory you can expand your probe cabinet fast and easily. Additional probe and/or styli storages are easily mounted. Long probes can be suspended vertically, if you simply mount the appropriate slot accordingly. Spare styli and extensions can be stored on practical pallets of different sizes. The pallets can be mounted vertically and horizontally. A tool tray keeps things tidy and provides the required tools for on-site probe assembly. Additional storage racks are quickly installed.



Art-Nr	Description
626100-8023-000	shelf for cabinet MSC
626100-8024-000	additional level for cabinet MSC
626100-8015-000	probe socket XXT for cabinet MSC
626100-8022-000	tool tray for probe cabinet MSC

Accessories for cabinets



With this useful accessory you can expand your probe cabinet fast and easily. Additional probe and/or styli storages are easily mounted. Long probes can be suspended vertically, if you simply mount the appropriate slot accordingly. Spare styli and extensions can be stored on practical pallets of different sizes. The pallets can be mounted vertically and horizontally. A tool tray keeps things tidy and provides the required tools for on-site probe assembly. Additional storage racks are quickly and without any problem retrofittable.

Art-Nr	Description
626100-8011-010	probe socket MT/VAST for cabinet MSC
626100-8012-000	probe socket ST/ST3 for cabinet MSC
626100-8013-000	probe socket DSE for cabinet MSC
626100-8014-000	probe socket RDS for cabinet MSC
626100-8015-000	probe socket XXT for cabinet MSC
626100-8021-000	pallet for 67 styli M5 for cabinet MSC
626100-8022-000	tool tray for probe cabinet MSC
626100-8023-000	shelf for cabinet MSC
626100-8024-000	additional level for cabinet MSC

Storage



Store your valuable styli systems safely in a MSC probe cabinet.



Design your own MSC



1. Choose the cabinet type

You can choose between the cabinet with glass doors and the standard type cabinet with metal doors. Both have a basic equipment of five level bars.

	Art.-Nr	Description	Qty.
	626100-9015-000	Probe cabinet MSC with metal doors, W x D x H 1000x400x2000 mm, without probe sockets , incl. 5 level bars	
	626100-9015-100	Probe cabinet MSC with glass doors, W x D x H 1000x400x2000 mm, without probe sockets , incl. 5 level bars	








2. Additions

Design the interior of your new MSC yourself and get exactly what you require.

	Art.-Nr	Description	Qty.
	626100-8023-000	Ground level compartment for the probe cabinet MSC, powder-coated, max. carrying capacity: 60kg	
	626100-8024-000	Additional level bar for the probe cabinet MSC	

3. Combining probe sockets and accessories

Equip your MSC with various probe sockets, probe pallets or the handy tool tray.

	Art.-Nr	Description	Qty.
	626100-8011-010	Probe socket MT/VAST for MSC	
	626100-8012-000	Probe socket ST/ST3 for MSC	
	626100-8013-000	Probe socket DSE for MSC	
	626100-8014-000	Probe socket RDS for MSC	
	626100-8015-000	Probe socket XXT for MSC	
	626100-8021-000	Pallet for 67 styli M5 for MSC	
	626100-8022-000	Tool tray for MSC	

4. Order via Fax: +49 (0) 7365 9208-29

Name		Dept.	
Comp.			
Street		ZIP/Loc.	
Phone		Email	

XXT desktop sensor rack



The handy XXT desktop sensor rack is used for the safe interim storage of your styli systems. (The XXT desktop sensor rack can not be used directly on the cmm for probe changes).

Art-Nr	Description
626119-0003-000	XXT desktop sensor rack
Accessories	
626100-8015-000	probe socket XXT for cabinet MSC



Star Styli

Easy assembly and adjustment of star styli with the help of the XXT set-up device.



Reliable assembly of styli systems

For an ideal and timesaving assembly of your styli systems, we offer you a wide range of useful and tested accessories. Our handy assembly tool XXT enables you to handle sensible styli components

safely and avoid possible damage to your styli and extensions. With the help of the different pin and hook wrenches we offer, you can quickly assemble firm and stable styli systems.



XXT Styli Assembling Aid



The XXT-styli assembling aid is used to hold a stylus extension while mounting a stylus with a pin wrench or a hook wrench. The assembling aid is being hold laterally to the stylus extension.

Art-Nr	Description
626109-0026-000	XXT styli assembling aid

Hook Wrenches



A hook wrench is used to assemble and disassemble styli and extensions. Large torques can be applied.

Art-Nr	Description
626109-0018-000	hook wrench DG5

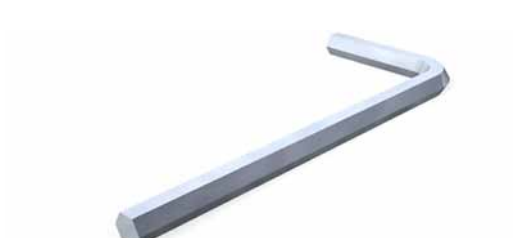
Pin Wrenches



A pin wrench is used for the assembly and disassembly of styli. It can be used on both ends.

Art-Nr	Description
000000-0015-323	pin wrench, 1,1

Hex Wrenches



The hex wrench is used for the tightening of cylinder head screws with hexagon socket, e.g. for joints.

Art-Nr	Description
602030-0042-000	hex wrench DIN 911, BSW0,9
602030-0002-000	hex wrench DIN 911, BSW1,5
000000-0015-245	hex wrench DIN 911, SW2
602030-0021-000	hex wrench DIN 911, BSW2,5
000000-0015-247	hex wrench DIN 911, SW3
000000-0015-248	hex wrench DIN 911, SW4

Useful accessories for RDS with XXT

Expand the possibilities of your coordinate measuring machine.

You will find your additional accessories right here if your coordinate measuring machine is equipped with a VAST XXT probe, positioned by using an articulating probe holder.

With the RDS-XXT adapter plate, a VAST XXT probe can be attached. **Probe extensions** additionally increase the immersion depth of the XXT.



RSD Adapter Plate VAST XXT



The RDS plate can be attached to a Zeiss RDS joint. It can hold either a VAST XXT probe head.

Art-Nr	Description
620670-9550-000	adapter plate VAST XXT ID, 18 pol.
Accessories	
620161-8703-000	probe head extension, XXT 18 pol., CFK
620161-8701-000	probe head extension, XXT 18 pol., CFK
620161-8711-000	probe head extension, XXT 18 pol., CFK

Probe Extensions



The probe head extensions are made of thermally stable CFRP and can be used between the RDS adapter plate and the VAST XXT probe head. They improve the accessibility of hard-to-reach places on the workpiece.

Art-Nr	LE	DGE	weight (g)
620161-8701-000	60,00	24,00	58,00
620161-8703-000	100,00	24,00	75,00
620161-8711-000	150,00	24,00	86,00

Probe heads VAST XXT



Passive scanning sensors VAST XXT. Specifications and usage scenarios/restrictions on request.

Art-Nr	Description
620161-9015-000	probe head VAST XXT TL1 18-pin
620161-9016-000	probe head VAST XXT TL2 18-pin
620161-9017-000	probe head VAST XXT TL3 18-pin

Calibrate styli precisely

Different reference spheres are required for different types of coordinate measuring machines and sensors. Our complete line of reference spheres and mounts increase the flexibility of the calibration process. For this process, touch and optical sensors require reference spheres with different diameters and surface properties.

Smaller reference spheres are the best choice for smaller styli spheres because it is much easier to calibrate delicate styli with short lengths on small reference spheres.

Original Carl Zeiss reference spheres allow you to quickly and effectively calibrate your styli. Reference spheres with a magnetic stand can be easily mounted to a base plate, while reference spheres with a standard stand are screwed onto the coordinate measuring machine table.



RSH Reference sphere holder with spheres



The reference sphere holders are available with different heights of 214, 364, and 514 mm for the reference spheres. This enables optimum adaptation in line with requirements for different machine sizes and special equipment.

For each of these sizes there is a complete set consisting of a reference sphere holder and a 30 mm ceramic reference sphere with a shaft. Fixing material, tool, certificate, and brief instructions. The set is supplied in a practical transport and storage case.

Art-Nr	Description
600332-9265-000	reference sphere RSH-214 with stand
600332-9266-000	reference sphere RSH-364 with stand
600332-9267-000	reference sphere RSH-514 with stand
Accessories	
600332-8443-000	reference sphere, RS-D8-C, M6
600332-8446-000	reference sphere, RS-DK30-C
600332-8445-000	reference sphere, RS-DK25-C
600332-8444-000	reference sphere, RS-DK15-C

RSH Reference sphere holder DuraMax



The RSH-compact stand offers a high degree of flexibility when adjusting your reference spheres. Up to three reference spheres can be mounted to the hemisphere on top of the RSH stand. With the hemisphere, the reference spheres can be rotated around a 45° inclined axis. One of the spheres is screwed on the axis and is then used as a fixed reference. The other two mounting holes are differently inclined to the axis. By rotating the hemisphere, the two reference spheres not fixed to the axis can be adjusted in many spatial directions.

With a height of 214 mm and its small base, the RSH-compact stand is ideal for DuraMax. Available without reference sphere or as a set with a DK30 reference sphere and assembly tools.

Art-Nr	Description
600332-9268-000	reference sphere RSH-compact with stand
600332-9168-000	basic set RSH-compact without calibration sphere
Accessories	
600332-8443-000	reference sphere, RS-D8-C, M6
600332-8446-000	reference sphere, RS-DK30-C
600332-8445-000	reference sphere, RS-DK25-C
600332-8444-000	reference sphere, RS-DK15-C

RSH Reference sphere holder

The reference sphere holders are available with different heights of 214, 364, and 514 mm for the reference spheres. This enables optimum adaptation in line with requirements for different machine sizes and special equipment. Technically, this is the same as the „RSH Complete“ reference sphere holder. However, it is supplied without reference spheres.



Art-Nr	Description
600332-9165-000	basic set RSH-214 without calibration sphere
600332-9166-000	basic set RSH-364 without calibration sphere
600332-9167-000	basic set RSH-514 without calibration sphere
Accessories	
600332-8443-000	reference sphere, RS-D8-C, M6
600332-8446-000	reference sphere, RS-DK30-C
600332-8445-000	reference sphere, RS-DK25-C
600332-8444-000	reference sphere, RS-DK15-C

Reference spheres RS

These reference spheres can be mounted on all RSH systems. They have a ceramic sphere and a M6 thread. The length from the middle of the sphere to the base is 70,1 mm. All reference spheres come with a certificate.



Art-Nr	system	DK	L	DG	TMAT	weight (g)
600332-8443-000	M6	8,00	74,10	18,00	ceramics	90,20
600332-8444-000	M6	15,00	77,60	18,00	ceramics	100,00
600332-8445-000	M6	25,00	82,60	18,00	ceramics	113,95
600332-8446-000	M6	30,00	85,10	18,00	ceramics	132,85

RSH Calibration kit for O-Inspect



The calibration kit RSH for O-Inspect includes a DK25 calibration sphere, DK16 gauge and an optical template.

Art-Nr	Description
600332-9452-000	Calibration kit for O-INSPECT
Accessories	
600332-8443-000	reference sphere, RS-D8-C, M6
600332-8446-000	reference sphere, RS-DK30-C
600332-8445-000	reference sphere, RS-DK25-C
600332-8444-000	reference sphere, RS-DK15-C

RSH Reference sphere holder O-Inspect



This reference sphere holder has especially been designed for the requirements of the O-Inspect.

Art-Nr	Description
600332-9450-000	Reference sphere holder RSH-105-A OI
Accessories	
600332-8443-000	reference sphere, RS-D8-C, M6
600332-8446-000	reference sphere, RS-DK30-C
600332-8445-000	reference sphere, RS-DK25-C
600332-8444-000	reference sphere, RS-DK15-C

Artefacts

As an operator of measuring machines, you must be sure that your measuring equipment meets the required specifications at all times. This is absolutely vital for the consistently high quality of the parts

you manufacture. Accuracy monitoring at regular intervals provides the foundation for accurate, reliable measuring results. For this purpose, we offer artifacts for a wide variety of applications.

Probe-Check

Probe Check is a procedure to test the probing and scanning behavior of the probe in combination with the coordinate measuring system in accordance with VDI/VDE 2617.

Description The artifact basis consists of a bend-resistant carrier on which

- one ceramic sphere, 30 mm diameter and
- one setting ring gage, 30 mm diameter are mounted.

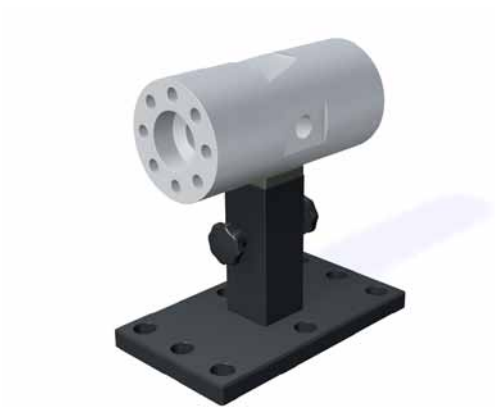
- Both are calibrated, high-precision standards.

Needless to say, the artifact can be used on CMMs from all manufacturers.



Art-Nr	Description
000000-1103-639	Probe-Check with case
626001-0422-020	software Probe-Check for SW UMESS UNIX / LINUX
626001-0430-020	software Probe-Check for SW Calypso
000000-1103-642	DKD-calibration Probe-Check
000000-1103-643	manufacturer calibration CMM-Check

Multi-Feature-Check



The Multi-Feature-Check is a method for the determination of the task specific measurement uncertainty and of the measurement process suitability for almost all workpiece features including form and position, being found in coordinate metrology. Relating to the particular CMM, measuring uncertainties can be determined and a conclusion about the test process applicability can be deducted.

The following inspection features can be selected depending on the user's parts spectrum. For these features - related to the CMM used - the measurement uncertainties can be determined and the suitability of the measurements can be stated:

- diameter, length, angle
- straightness, flatness, roundness, cylindricity
- parallelism, squareness, inclination, position, concentricity, coaxiality, symmetry
- radial run-out, axial run-out, total radial run-out, total axial run-out

When using this method the measurement uncertainties and the suitability of the measurements are determined realistically taking into account

- the current on site temperatures
- by means of workpiece-similar material and
- surface properties of the test piece.

Art-Nr	Description
626001-0730-000	Multi Feature Check
626001-0730-020	Multi Feature Check Calypso Lizenz
626001-0790-000	DKD-calibration Multi Feature Check

CMM-Check with Case

CMM-Check can be used to check coordinate measuring machines in accordance with DIN EN ISO 10360 and VDI/VDE 2617.

The following features can be measured with the artifact and subsequently evaluated with the software:

- Probing behavior of the probe system
- Scanning performance of the probe system
- CMM as a form measuring machine incl. filter characteristics
- Linear measuring errors
- Four-axis error of the CMM with rotary table (optional)



The basis of the universal artifact consists of a bend-resistant carrier on which calibrated, high-precision dimensional and form standards are mounted:

- one setting ring gage, 50 mm diameter
- one ceramic sphere, 30 mm diameter
- one Flick standard (precision cylinder with two flat polished sections of approx. 10 µm and 250 µm)
- two parallel gage blocks, 50 mm and 400 mm
- two ceramic spheres (optional), 30 mm diameter

For further questions please call in Europe:

Carl Zeiss IMT GmbH,
phone.: +49-(0)7361-9277-10,
fax: +49-(0)7361-9277-55

in the USA:

Carl Zeiss Industrial Metrology, 6250 Sycamore Lane North, Maple Grove, MN, 55369, phone.: (800) 327-9735, fax: (800) 533-0219.

Art-Nr	Description
000000-1103-602	CMM-Check with case
626001-0100-100	flightcase for CMM-Check
626001-0122-020	software CMM-Check / SW, UMESS UNIX / LINUX
626001-0130-020	software CMM-Check / SW Calypso
000000-1103-606	DKD-calibration CMM-Check
000000-1103-607	manufacturer calibration CMM-Check

Multi-Sensor-Check



The monitoring procedure for coordinate measuring machines with tactile and optical sensors. The multi-sensor check is a procedure for the standardized checking of coordinate measuring machines (CMMs) with tactile/optical sensors. The universal, calibrated test block is delivered with complementing control and analysis software. The multi-sensor check can be used to check

coordinate measuring machines as per DIN EN ISO 10360-2 and VDI/VDE 2617 Sheet 6.1:

- Probe deviation of measuring head system
- Scan deviation of measuring head system
- Length measurement deviation
- Both the probe deviation and length measurement deviation are checked using tactile and optical methods.

The test block basis is a bend-resistant base body to which high-precision, calibrated measuring implements are applied:

- A special adjusting ring for tactile and optical measurements, diameter of 16 mm
- A ceramic precision sphere, 25 mm in diameter
- Two parallel slip gauges, 50 mm and 200 mm in length
- A glass scale, 200 mm in length; the glass scale incorporates precise, circular markings for checking the probe deviation and a division scale for checking the length measurement deviation.

Art-Nr	Description
626001-0830-000	Hardware Multi Sensor Check für SW Calypso
626001-0830-020	Softwarelizenz Multi-Sensor-Check für Calypso
626001-0890-000	DKD Kalibrierung Multi-Sensor-Check

Fast exchange of your workpieces

Mounting your workpieces often takes a lot of time. With our changeable mounting system, you can position your workpieces fast, easily and with repeatable accuracy on your CMM.

A pallet system with interface allows a fast exchange between several clamping devices. The pallets are simply mounted by hand on the adapter plate, which is fixed to the CMM. The special design of the interface

enables a safe and reproducible positioning. Workpieces can be clamped directly outside the measuring range either directly to the pallet, a vise, the three-jaw chuck or with a fixture made from the CARFIT® CMB kit.

Ask our CAD experts if you need a custom-made fixture for your individual workpiece. We have years of experience in designing manual and automated clamping fixtures for series measurement on coordinate measuring machines.



Pallet System 300x200

In case you need to measure many different work pieces or have a variety of measurement tasks to complete, it is a major advantage if you are able to exchange your fixtures fast and easily.

Our interface pallets are an efficient and timesaving solution.

No more loss of precious time, because you won't have to adjust the fixtures to the workpieces.

Interface Pallet Set



This handy interface set contains everything you need as initial equipment:

- 1 x Support plate
- 1 x Raster interface 300x200

And either 1 x bench vice interface (73 mm) or 1 x three chuck interface (125 mm)

Art-Nr	Description
626109-9220-130	interface set bench vice
626109-9220-140	interface set jaw chuck
Accessories	
626109-9220-040	jaw chuck interface
626109-9220-030	bench vice interface
626109-9220-020	raster interface M6
626109-9220-010	support plate

Support Plate



This support plate can be installed directly within the measuring range of your CMM.

On the statically defined 3-roll-support you can fast and easily attach the appropriate interface.

Art-Nr	Description
626109-9220-010	support plate

Raster Interface

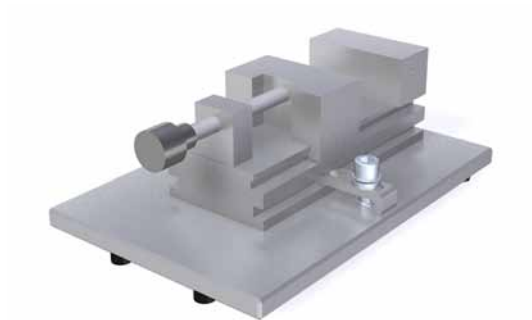
This raster pallet for the changeable interface system has a M6 25 mm hole spacing. It allows you to assemble your own mounting fixtures with bracket clamps or other elements included in our clamping kit (000000-041 1-562).



Art-Nr	Description
626109-9220-020	raster interface M6
Accessories	
600062-0210-000	CARFIT® CMB KIT - System E

Bench Vice Interface

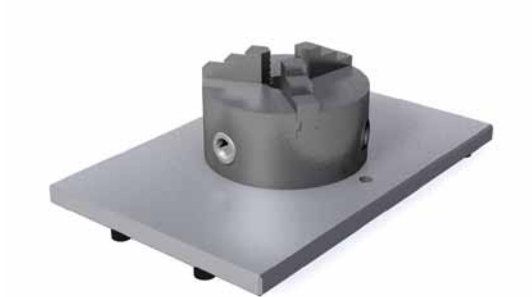
This interface pallet holds an attached bench vice with a jaw width of 73 mm and a maximum spread of 100 mm. The bench vice is mounted with brackets to the pallet and can be moved on the plate.



Art-Nr	Description
626109-9220-030	bench vice interface

Jaw Chuck Interface

300 x 200 mm interface with an attached three jaw chuck. A handy catch to operate the chuck is also provided.



Art-Nr	Description
626109-9220-040	jaw chuck interface

Pallet System 500x500

Interface Pallet Set

NEW!



This interface pallet system has a base mounting plate (626109-9220-510) with fastening boreholes for M10 and M12.

The set also includes a workpiece pallet (either the raster or the base version) with handles and it is prepared for the installation of the temperature transmission interface.

The 500x500 interface pallet set can be used on all ZEISS coordinate measuring machines of the Max line and portal measuring machines.

Total height of the base plate with pallet is 45 mm (plus handles).

Art-Nr	Description
626109-9220-620	Changeover interface set raster 500x500, M10 (DuraMax)
626109-9220-622	Changeover interface set raster 500x500, M12
626109-9220-650	Changeover interface set base 500x500, M10 (DuraMax)
626109-9220-652	Changeover interface set base 500x500, M12
Accessories	
626140-9111-200	Temperature sensor with plastic housing, open cable end 3 m
626109-9220-550	Workpiece pallet 500x500 base
626140-9121-500	TSM-50 contact unit f. temperature sensor, cmm side
626140-9122-500	Temperature interface TSP-50 pallet contact unit
626140-9112-200	Temperature sensor with steel housing, open cable end 3 m
626109-9220-520	Workpiece pallet 500x500 raster

Interface Pallet

NEW!



- Workpiece pallet (aluminium) with borehole pattern M6 50x50 mm and handles.

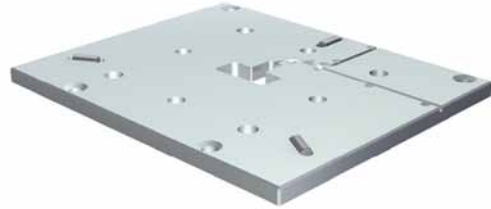
- Prepared for the installation of the temperature transmission interface.

Art-Nr	Description
626109-9220-520	Workpiece pallet 500x500 raster
626109-9220-550	Workpiece pallet 500x500 base
Accessories	
626140-9122-500	Temperature interface TSP-50 pallet contact unit

Support Plate

NEW!

- Base mounting plate (aluminium) with fastening boreholes for M10 and M12.
- Prepared for the installation of the temperature transmission interface.
- can be used on all ZEISS coordinate measuring instruments of the Max line and portal measuring machines.
- incl. clamping material



Art-Nr	Description
626109-9220-512	Base mounting plate M12 for pallet 500x500
Accessories	
626109-9220-550	Workpiece pallet 500x500 base
626109-9220-520	Workpiece pallet 500x500 raster

Torque Nut

NEW!

Infinitely variable, single-sided effective torque nuts made of stainless steel. Thread sizes M6 and M8



Art-Nr	Description
626109-0031-000	Torque Nut, M6
626109-0033-000	Torque Nut, M6 small
626109-0034-000	Torque Nut, M8

Improved productivity

A clamping fixture precisely matched to the workpiece and the measuring machine is absolutely vital for ensuring repeatable accuracy in serial measurement results. By integrating temperature sensors into the fixture, the workpiece temperature can be read and processed without delay. Our manual or automated shifting and loading units help you to avoid collisions during loading and set-up times will be reduced.



Protokoll	

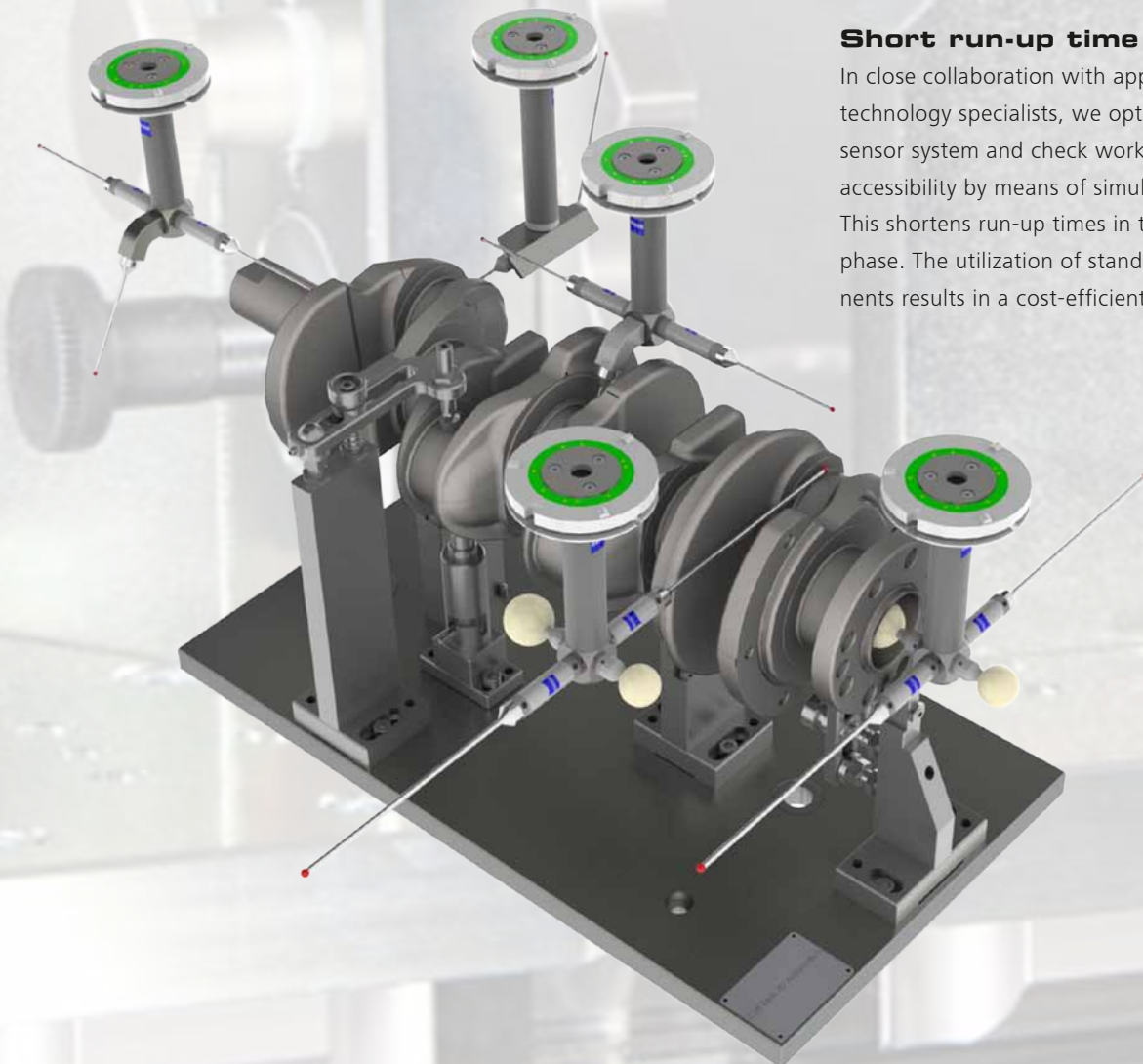
Temperatur-Kompensation	

Temperatur	
Werkstück	23.3350
X-Maßstab	20.0000
Y-Maßstab	20.0000
Z-Maßstab	20.0000
Korrekturwert (µm)	
Werkstück	-59.3630
X-Maßstab	0.0000
Y-Maßstab	0.0000
Z-Maßstab	0.0000

Optimized for continuous measurement

Short run-up time

In close collaboration with application technology specialists, we optimize your sensor system and check workpiece accessibility by means of simulations. This shortens run-up times in the start-up phase. The utilization of standard components results in a cost-efficient design.

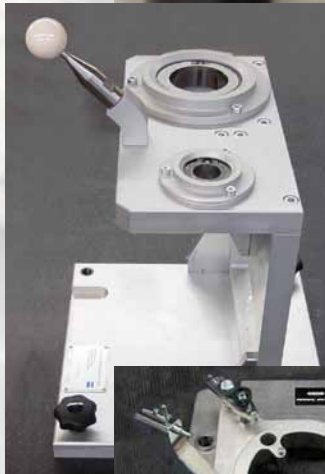




Individual clamping fixtures

One stop shop

Our expertise as the machine manufacturer and the experience gained from thousands of customer projects mean that we will create the best solution for your requirements. See for yourself and contact us for a non-obligation consultation.



Temperature interface

TSM-50 contact unit f. temperature sensor, cmm side



This unit is incorporated into the base mounting plate 626109-9220-510 incl. cable (3 m) with a SUB-D female connector for the connection to the CMM.

Art-Nr	Description
626140-9121-500	TSM-50 contact unit f. temperature sensor, cmm side

TSP-50 contact unit f. temperature sensor, pallet side



The contact unit is integrated into 500x500 pallets and transmits the temperature sensor signals to the machine-side contact unit. The sensor can be connected directly via clamping contacts.

Art-Nr	Description
626140-9122-500	Temperature interface TSP-50 pallet contact unit

Accessories	
626140-9112-200	Temperature sensor with steel housing, open cable end 3 m
626140-9111-200	Temperature sensor with plastic housing, open cable end 3 m

Temperature sensors

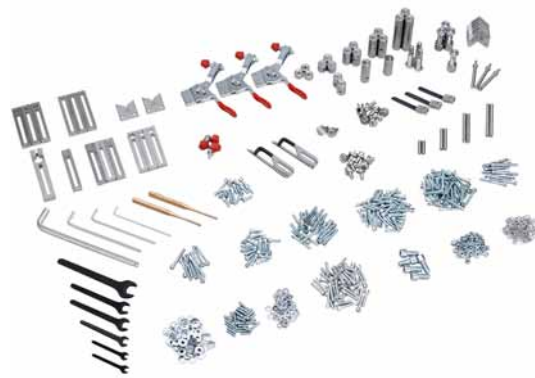


These temperature sensors can be directly integrated into the clamping fixtures. They have a spring-loaded sensor head, open cable ends and ferrules (cable length = 3 m). Available with a plastic or steel housing.

Art-Nr	Description
626140-9111-200	Temperature sensor with plastic housing, open cable end 3 m
626140-9112-200	Temperature sensor with steel housing, open cable end 3 m
626140-9130-000	Spare sensor
626140-9132-000	Extension cable SUB-D/SUB-D, 3m

CMB-E clamping kit

The extensive CARFIT® CMB KIT - System E contains clamping and positioning elements that can be used to quickly and easily assemble workpiece-specific clamping fixtures. No baseplate is included with the kit.



Art-Nr	Description
600062-0210-000	CARFIT® CMB KIT - System E
Accessories	
600062-0116-000	grid plate CMB 700x800x30 (J&P Art.Nr.: 13 02 0008)
600062-0117-000	grid plate CMB 500x500x20 DuraMax (J&P Art.Nr.: 13 02 0009)
600062-0112-000	grid plate CMB 250x250x20 (J&P Art.Nr.: 13 02 0003)
600062-0113-000	grid plate CMB 400x300x20 (J&P Art.Nr.: 13 02 0005)
626109-9220-020	raster interface M6
600062-0115-000	grid plate CMB 600x800x30 (J&P Art.Nr.: 13 02 0007)
600062-0111-000	grid plate CMB 500x400x20 (J&P Art.Nr.: 13 02 0001)
600062-0114-000	grid plate CMB 400x600x20 (J&P Art.Nr.: 13 02 0006)

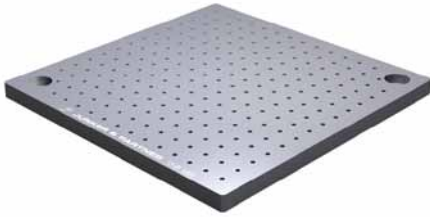
CMB-U clamping kit

The clamping kit Carfit CMB-U includes a wide variety of different clamping and positioning elements for the fast and easy assembly of workpiece specific fixtures. No baseplate is included with the kit.



Art-Nr	Description
600062-0220-000	CARFIT® CMB KIT - System U
Accessories	
600062-0116-000	grid plate CMB 700x800x30 (J&P Art.Nr.: 13 02 0008)
600062-0117-000	grid plate CMB 500x500x20 DuraMax (J&P Art.Nr.: 13 02 0009)
600062-0112-000	grid plate CMB 250x250x20 (J&P Art.Nr.: 13 02 0003)
600062-0113-000	grid plate CMB 400x300x20 (J&P Art.Nr.: 13 02 0005)
626109-9220-020	raster interface M6
600062-0115-000	grid plate CMB 600x800x30 (J&P Art.Nr.: 13 02 0007)
600062-0111-000	grid plate CMB 500x400x20 (J&P Art.Nr.: 13 02 0001)
600062-0114-000	grid plate CMB 400x600x20 (J&P Art.Nr.: 13 02 0006)

CARFIT® CMB M6 grid plate

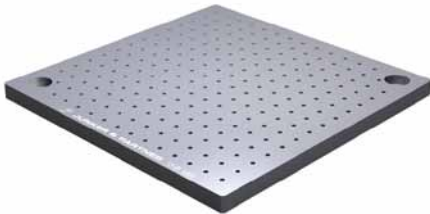


The grid plate is the basis for the building of a series basic measurement fixture. It has a 50 mm grid pattern of M6 tapped holes. The grid plate has 4 mounting holes 200 x 200 mm.

Aluminum hardcoated

Art-Nr	Description
600062-0112-000	grid plate CMB 250x250x20 (J&P Art.Nr.: 13 02 0003)
600062-0113-000	grid plate CMB 400x300x20 (J&P Art.Nr.: 13 02 0005)
600062-0114-000	grid plate CMB 400x600x20 (J&P Art.Nr.: 13 02 0006)
600062-0111-000	grid plate CMB 500x400x20 (J&P Art.Nr.: 13 02 0001)
600062-0117-000	grid plate CMB 500x500x20 DuraMax (J&P Art.Nr.: 13 02 0009)
600062-0115-000	grid plate CMB 600x800x30 (J&P Art.Nr.: 13 02 0007)
600062-0116-000	grid plate CMB 700x800x30 (J&P Art.Nr.: 13 02 0008)

CARFIT® CMK M4 grid plate



It has a 50 mm grid pattern of M4 tapped holes.

Art-Nr	Description
600062-0215-001	grid plate CMK 240x240x15 Mini (J&P Art.Nr.: 13 05 1000)

CARFIT® CMB KIT-mini

The Carfit CMB KIT-mini includes a wide variety of different clamping and positioning elements for the fast and easy assembly of workpiece specific fixtures.



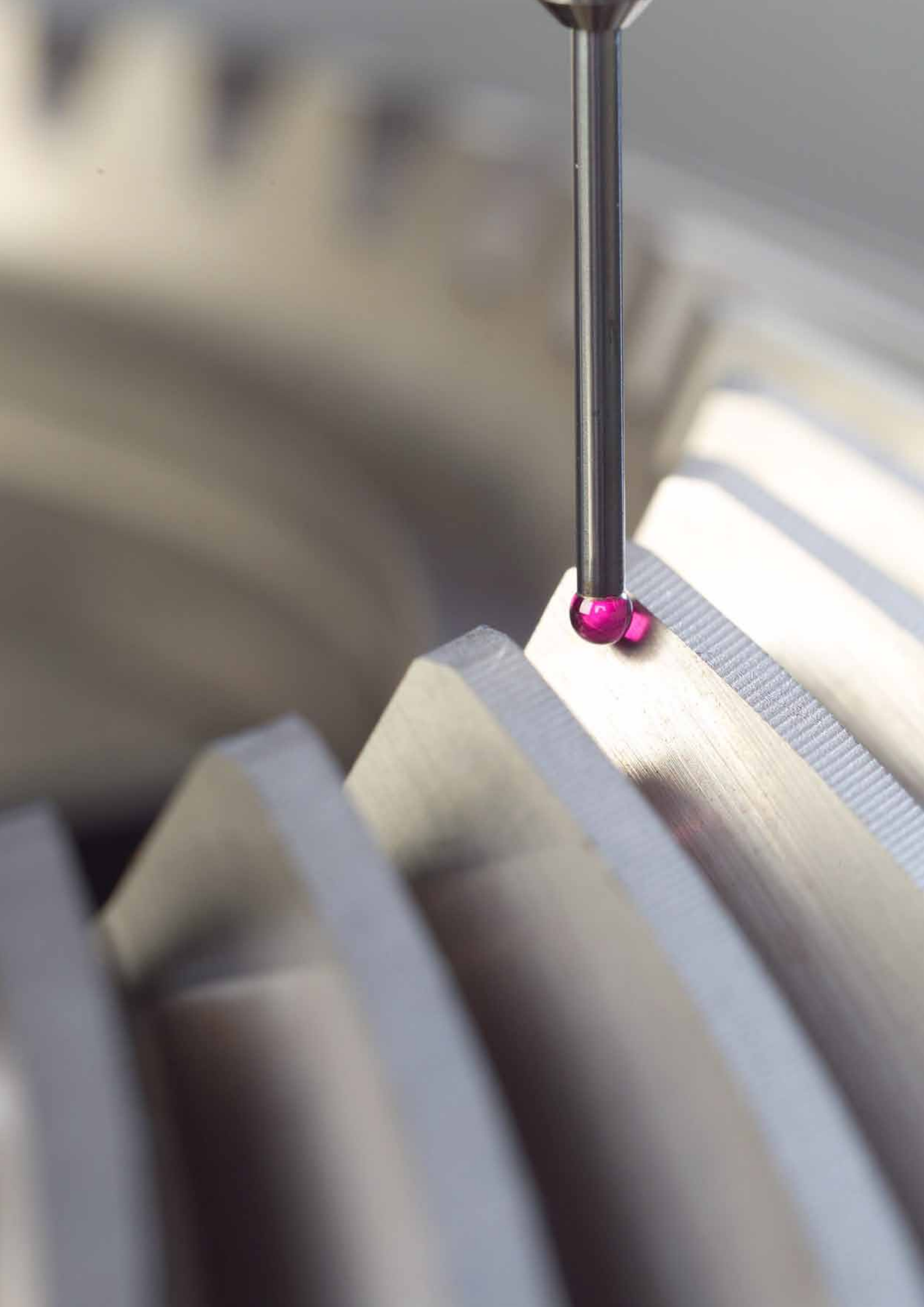
Art-Nr	Description
600062-0215-000	CARFIT® CMB KIT- Mini
Accessories	
600062-0215-001	grid plate CMB 240x240x15 Mini (J&P Art.Nr.: 13 05 1000)

Cleaning and Support

Cleanliness is essential for precision measuring. The workpiece has to be cleaned to achieve optimum measuring results. Our cleaning material is recommended for all ZEISS measuring machines.

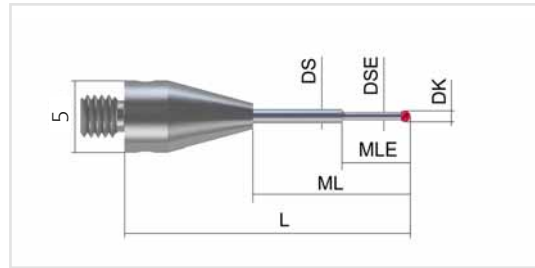
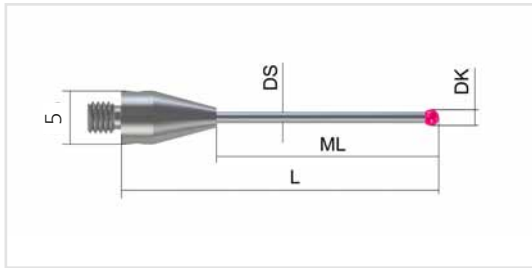


Art-Nr	Description
000000-1359-469	microfiber cleaning tissue
000000-0501-614	Rivolta T.R.S. plus, Aerosol 200ml
626119-0010-005	Dust off 360 Super
626119-0010-007	swabs Knitted Polyester 1,6mm, (500 pcs.)
626119-0010-008	swabs Knitted Polyester 3,2mm, (500 pcs.)
626119-0010-009	swabs Knitted Polyester 6,4mm, (500 pcs.)
626119-0010-006	Polyamide-stretch-glove with PU coated palm
000000-0424-218	Cleaning cloths Absorbond TX409,9" x9"



Fax request for styli M3 XXT

Fax: +49 (0)7365-9208-29



Sphere material (TMAT)

Ruby (R)
Silicon Nitride (SiN)

Shaft material (SMAT)

Tungsten Carbide (HM)
Carbon Fibre/ThermoFit (TF)

DK mm	DS mm	DSE mm	L mm	ML mm	MLE mm	TMAT	SMAT	Quantity

Company:		
Department:		
Name, First-:		
Address:		
Zip / City:		
Phone:		Fax:
E-Mail:		

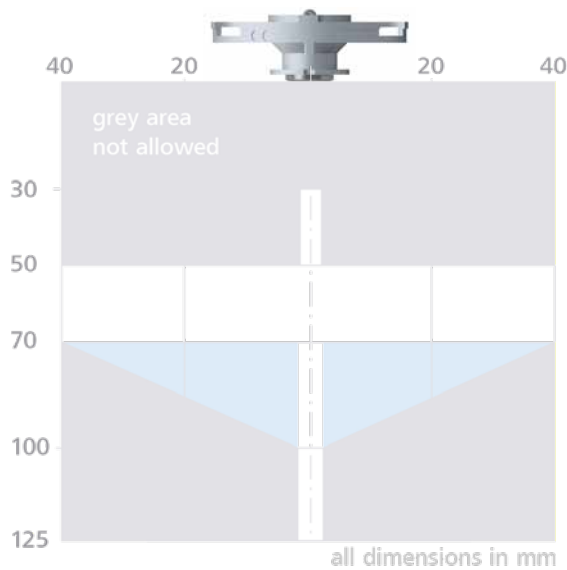
Benefit from our Know-How!

We assist you in designing your styli system.

Draw a sketch of the styli system you need and fax this page to us.
Our experts will make a design in CAD and send you a quotation.

Fax: +49 (0)7365-9208-29

VAST XXT TL1



Additional information

■ **area of reduced dynamic**

Sphere material (TMAT)

Ruby (R)
Silicon Nitride (SiN)

Shaft material (SMAT)

Tungsten Carbide (HM)
Carbon Fibre/ThermoFit (TF)

Company:		
Department:		
Name, First-:		
Address:		
Zip / City:		
Phone:		Fax:
E-Mail:		

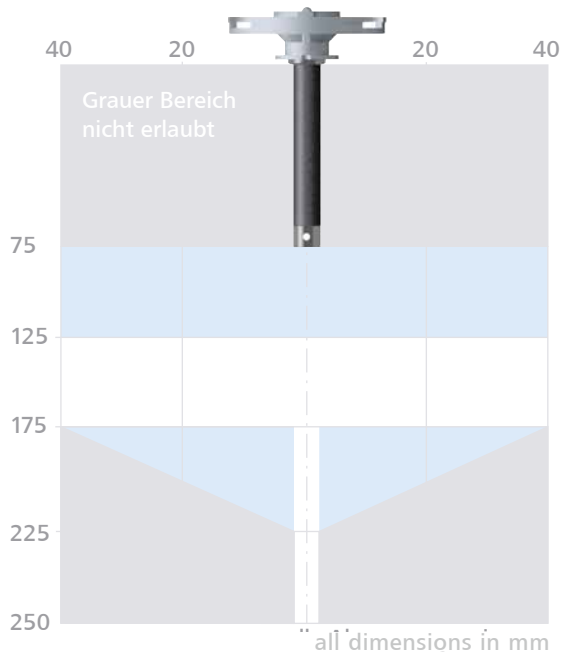
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Draw a sketch of the styli system you need and fax this page to us.
Our experts will make a design in CAD and send you a quotation.

Fax: +49 (0)7365-9208-29

VAST XXT TL2



Additional information

■ **area of reduced dynamic**

Sphere material (TMAT)

Ruby (R)
Silicon Nitride (SiN)

Shaft material (SMAT)

Tungsten Carbide (HM)
Carbon Fibre/ThermoFit (TF)

Company:			
Department:			
Name, First-:			
Address:			
Zip / City:			
Phone:		Fax:	
E-Mail:			

Benefit from our Know-How!

We assist you in designing your styli system.

Draw a sketch of the styli system you need and fax this page to us.
Our experts will make a design in CAD and send you a quotation.

Fax: +49 (0)7365-9208-29

VAST XXT TL3

Additional information

all dimensions in mm

■ **area of reduced dynamic**

Sphere material (TMAT)

Ruby (R)
Silicon Nitride (SiN)

Shaft material (SMAT)

Tungsten Carbide (HM)
Carbon Fibre/ThermoFit (TF)

Company:		
Department:		
Name, First-:		
Address:		
Zip / City:		
Phone:		Fax:
E-Mail:		

RoboMax[®]

Visible Productivity

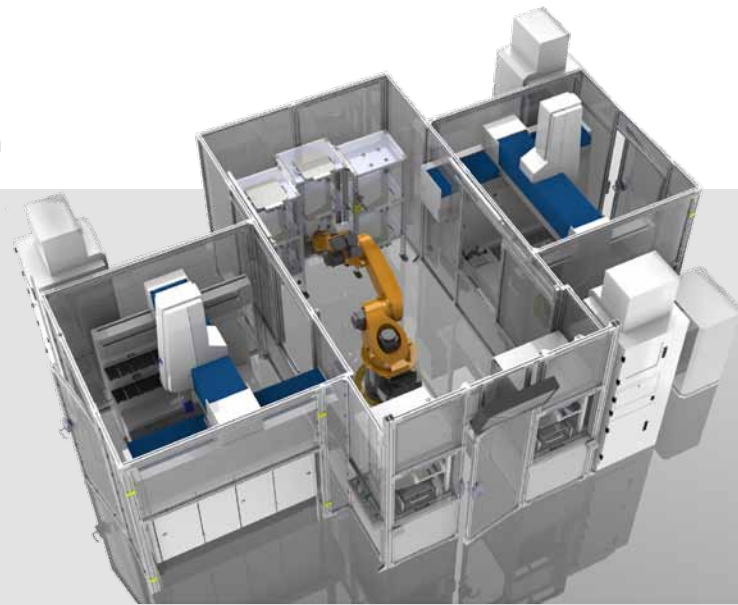
Automate your ZEISS cmm

Increased Productivity

Get higher throughput and have lower down-times in your production.

Guaranteed Connectivity

By modularly connecting the Zeiss cmm, robot and peripherals with the factory material flow.



Only a few steps from the idea to its completion

Clear concept

Simulation, visualization and constant communication with our customer - from the quotation to the delivery is the key to a successful RoboMax[®] project.

Thinking ahead

To provide you with a future-proof solution, we only use globally available components for easy spare parts procurement.



Ask us

We can assist you to increase the productivity of your quality control.
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