Probe System Equipment Surfcom

Original accessories from the technology leader

www.probes.zeiss.com

ZEISS

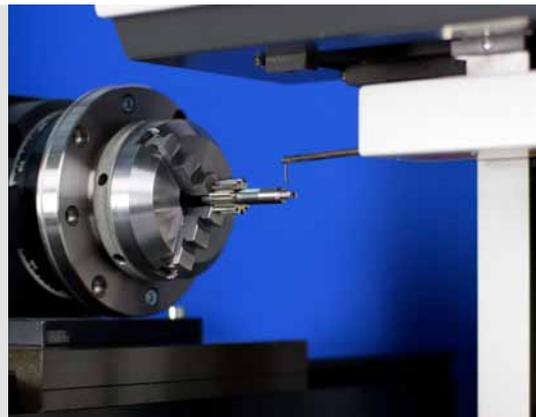We make it visible.

Original accessories from Carl Zeiss

Content

Productivity for your contour and surface measuring.

Imprint

Carl Zeiss 3D Automation GmbH

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Email: orders@3d-net.de

www.probes.zeiss.com

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:

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You can always rely on Carl Zeiss original products and on our service

Productivity for your Surfcom measuring machine

Tried and tested

We, as manufacturer, know the needs for your CMM to measure accurate and efficient. Our accessories, tuned for your Surfcom, save time and increase your productivity. Benefit from our extensive know-how and experience .

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Roughness styli

Roughness styli have a diamond or tungsten carbide tip with a very small tip radius. 2 µm, 5 µm und 10 µm are available as tip radii. The roughness styli are useable for Surfcom 130 / 480 / 1400 / 1500 and for roughness detectors on Contourecord 1800 / 2800 / 1900 / 2900 however each are depending on the probe. Please check your machine specification for the correct stylus.
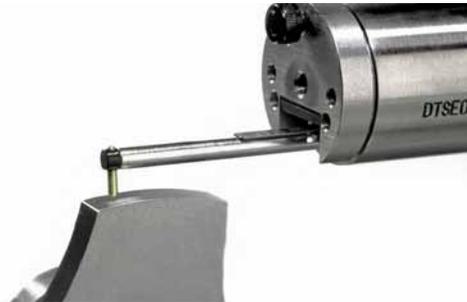
2 µm roughness styli E-DT-SS01A

Roughness styli have a diamond or tungsten carbide tip with a very small tip radius. Please check your machine specification for the correct stylus.

Art-Nr	L	L1	radius (µm)	W (°)	tactile power (mN)	TMAT	Accretech
000000-1079-359	33,5	0,9	2	60	0,8	diamond	DM43811
000000-1079-356	33,5	1,7	2	60	0,8	diamond	DM43812
000000-1059-167	33,5	7,0	2	60	0,8	diamond	DM43801
000000-1079-358	33,5	18,0	2	60	0,8	diamond	DM43815
000000-1128-388	39,2	8,0	2	60	0,7	diamond	DM43814
000000-1084-496	62,0	9,2	2	60	4,0	diamond	DM43824
000000-1138-925	62,0	32,0	2	60	4,0	diamond	DM43826
000000-1054-833	73,0	5,0	2	60	3,0	diamond	DM43822
000000-1084-495	73,5	1,7	2	60	3,0	diamond	DM43821
000000-1079-360	73,5	15,0	2	60	3,4	diamond	DM43825

Service

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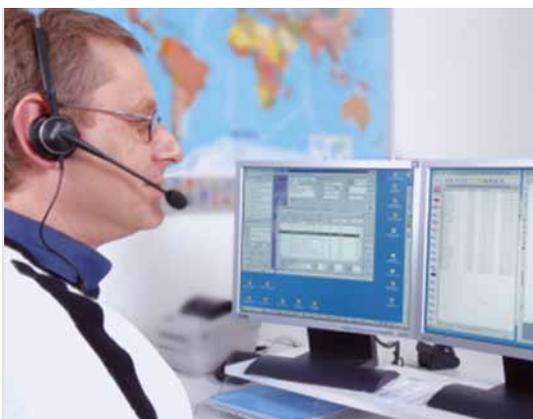We will be happy to assist you.

5 µm roughness styli for E-DT-SS08A

Roughness styli have a diamond or tungsten carbide tip with a very small tip radius. Please check your machine specification for the correct stylus.

Art-Nr	L	L1	radius (µm)	W (°)	tactile power (mN)	TMAT	Accretech
625006-3057-000	15,0	1,7	5	90	4,0	diamond	0102512
625006-3059-000	15,0	8,0	5	60	4,0	diamond	0102514
625006-3054-000	22,0	2,6	5	90	4,0	diamond	0102509
625006-3047-000	22,0	7,0	5	90	4,0	diamond	0102501
625006-3048-000	22,0	7,0	5	90	5,0	diamond	0102502
625006-3060-000	22,0	15,0	5	90	5,0	carbide	0102515
625006-3063-000	41,0	1,7	5	90	5,0	diamond	0102521
625006-3064-000	62,0	5,0	5	90	5,0	carbide	0102522

10 µm roughness styli for E-DT-SS02A

Roughness styli have a diamond or tungsten carbide tip with a very small tip radius. Please check your machine specification for the correct stylus.

Art-Nr	L	L1	radius (µm)	W (°)	tactile power (mN)	TMAT	Accretech
625006-3053-000	22,0	7,0	10	90	0,8	diamond	0102508
625006-3054-000	22,0	2,6	5	90	4,0	diamond	0102509

Contour styli

Contour measure with
Surfcom and Contourecord

Contour styli are used for contour measuring. There
are two different versions to build a complete stylus.

Stylus arms with inserted stylus tips:
These contour styli consist of a stylus arm, screwed to the probe,
and a stylus tip. The stylus arms are device-specific. The stylus
tips are for universal use.

Modular stylus arm:
These contour styli consist of a basic holding device and a special
stylus arm. On the opposite end, the basic holding device has a
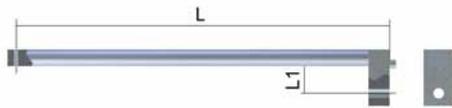M2 thread in which you can mount a special stylus arm.

Stylus arms

Stylus arms for C1600, C1700, S1800, S1900

These stylus arms are mounted on probes. A contour stylus tip, edge or sphere with the according length is attachable at the front end.

Art-Nr	L	L1	Accretech
625006-3336-000	178,5	13,0	0102801
625006-3335-000	178,5	26,0	0102800
625006-3337-000	178,5	52,0	0102804

Stylus arms for C2600, C2700, S2800, S2900

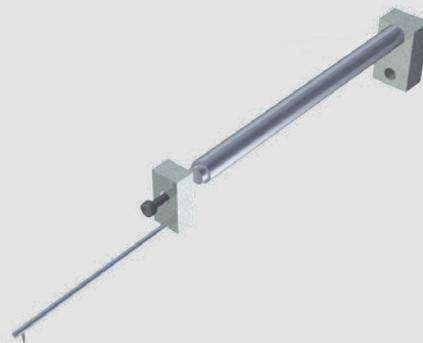These stylus arms are mounted on probes. A contour stylus tip, edge or sphere with the according length is attachable at the front end.

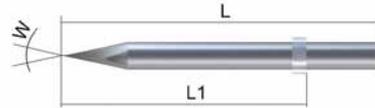| Art-Nr	L	L1	Accretech
625006-4098-000	178,5	13,0	DM45529
625006-4097-000	178,5	26,0	DM45528
000000-1794-623	178,5	52,0	DM45531

Stylus arms

Modular stylus arms allow measurements on hard to reach positions.

Stylus insertions for stylus arms

Stylus tips

Stylus tips can be mounted to the device-specific stylus arms. Be careful to only use tips with a functional length L according to the functional length L of the stylus arm.

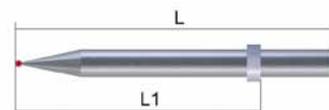| Art-Nr	L	L1	radius (µm)	W (°)	TMAT	Accretech
625006-3097-000	21,0	13,0	25	24	carbide	DM45506
625006-3096-000	34,0	26,0	25	24	carbide	DM45505
625006-3095-000	60,0	52,0	25	24	carbide	DM45504

Stylus blades

The stylus blades have a bevelled point and can be attached to the device-specific stylus arms. Do only use blades with the functional length L1 in stylus arms with the appropriate functional length L1.
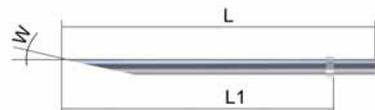
Art-Nr	L	L1	radius (µm)	W (°)	TMAT	Accretech
625006-3094-000	21,0	13,0	25	12	carbide	DM45503
625006-3100-000	21,0	13,0	25	24	carbide	DM45509
625006-3093-000	34,0	26,0	25	12	carbide	DM45502
625006-3099-000	34,0	26,0	25	24	carbide	DM45508
625006-3092-000	60,0	52,0	25	12	carbide	DM45501
625006-3098-000	60,0	52,0	25	24	carbide	DM45507

Stylus spheres

Stylus spheres can be attached to the device-specific stylus arms. Do only use spheres with the functional length L1 in stylus arms with the appropriate functional length L1.

Art-Nr	L	L1	radius (µm)	TMAT	Accretech
625006-3119-000	21,0	13,0	250	ruby	DM45580
625006-3273-000	21,0	13,0	350	ruby	DM45524
625006-3275-000	21,0	13,0	500	ruby	DM45527
625006-3272-000	34,0	26,0	350	ruby	DM45523
625006-3113-000	34,0	26,0	500	ruby	DM45526
625006-3271-000	60,0	52,0	350	ruby	DM45522
625006-3274-000	60,0	52,0	500	ruby	DM45525

Modular stylus arms M2

Modular basic holding device M2 for C1600, C1700, S1800, S1900

The basic holding device is mounted to the probe and has a M2 thread on the opposite end to which you can mount a special stylus arm.
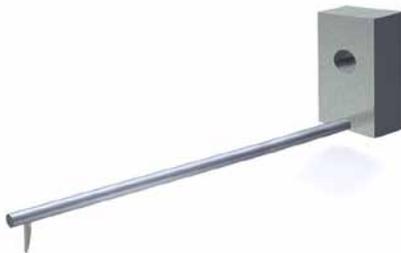
Art-Nr	L	L1	Accretech
625006-3081-000	115,0	17,0	0102802

Modular basic holding device M2 for C2600, C2700, S2800, S2900

Art-Nr	L	L1	Accretech
625006-4099-000	115,0	17,0	DM45530

Stylus insertions for stylus arms M2

Modular stylus arms M2 for C1600, C1700, S1800, S1900

These special stylus arms with M2 fixing are installed in a modular stylus arms. They are used for small holes and hard-to-access areas.

Art-Nr	L	L1	radius (µm)	W (°)	TMAT	Accretech
625006-3253-000	65,0	3,5	25	12	carbide	DM45083
625006-3252-000	65,0	7,0	25	12	carbide	DM45082
625006-3251-000	65,0	12,0	25	12	carbide	DM45081

Modular stylus arms M2 for C2600, C2700, S2800, S2900

| Art-Nr	L	L1	radius (µm)	W (°)	TMAT	Accretech
625006-4088-000	65,0	4,5	25	12	carbide	DM45512
625006-3102-000	65,0	8,0	25	12	carbide	DM45511
625006-4087-000	65,0	12,0	25	12	carbide	DM45510

Surfcom 2000, 3000, 5000

In this chapter you will find combined roughness and contour styli. These styli, depending on the design, can be used in the Surfcom 2000, 3000 or 5000. They differ in the theoretical functional lengths LH and LV and in the type and material of the stylus tip.

Choose either the standard styli or the ThermoFit® styli in carbon fiber design. Custom styli in Thermo-Fit ® design can be manufactured and delivered fast based on our special production technology for carbon fiber tubes. Take advantage of our profound know-how in the field of ThermoFit® applications in the coordinate measuring techno-logy. Our worldwide proven carbon fiber styli and extension are the perfect solution if it comes to high precision and reliability.

Repair service on request!

Send in your damaged stylus and our specialists check the possibility of repair. This is normally cheaper than buying a new stylus. Please contact us, we will be pleased to advise you.
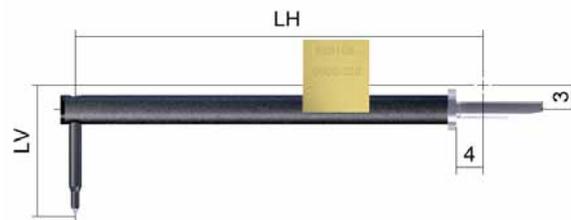
Surfcom 2000

Standard styli for Surfcom 2000

Please keep the functional lengths LH65 and LH130 in mind before using the styli. There are no custom elements possible for standard styli. The styli are calibrated before the delivery and are instantly ready for use.

Art-Nr	LH	LV	radius (µm)	angle (°)	tactile power (mN)	TMAT	Accretech
000000-1365-332	65,0	-4,6	2	60	0,8	diamond	DM47506
000000-1365-331	65,0	-5,0	2	60	0,8	diamond	DM47505
000000-0483-888	65,0	-12,5	2	60	0,8	diamond	DM47523
000000-1365-329	65,0	-14,4	2	60	0,8	diamond	DM47501
000000-1365-334	65,0	-14,4	5	30	5,0	diamond	DM47508
000000-1433-410	65,0	-14,4	5	40	4,0	diamond	DM47548
625006-3938-000	65,0	-14,5	2	60	0,8	diamond	DM47504
000000-1365-333	65,0	-30,5	2	60	0,8	diamond	DM47507
000000-1433-416	65,0	-30,5	5	90	4,0	diamond	DM47549
000000-1373-770	130,0	-15,5	2	60	4,0	diamond	DM47547
000000-1365-330	130,0	-21,5	25	24	5,0	carbide	DM47513

ThermoFit® styli for Surfcom 2000

Styli for Surfcom 2000. Made in Germany in original Carl Zeiss ThermoFit design. The stylus arm is made of high strength and very stiff and light carbon fiber tubes. We obtain our diamond tips only from European quality manufacturers. We also manufacture custom styli according to your wishes. Just give us a call! The styli are calibrated before the delivery and are instantly ready for use.

Art-Nr	LH	LV	radius (µm)	angle (°)	tactile power (mN)	TMAT
626108-6006-010	65,0	-14,8	2	60	0,8	diamond
626108-6007-010	65,0	-30,5	2	60	0,8	diamond
626108-6000-010	130,0	-7,9	2	60	5,0	diamond
626108-6005-010	130,0	-15,5	2	60	4,0	diamond

Surfcom 3000/5000

Standard styli for Surfcom 3000/5000

Please keep the functional lengths LH50, LH100 and LH125 in mind before using the styli. There are no custom elements possible for standard styli. The styli are calibrated before the delivery and are instantly ready for use.

Art-Nr	LH	LV	radius (µm)	angle (°)	tactile power (mN)	TMAT	Accretech
000000-1098-592	50,0	-4,6	2	60	0,7	diamond	DM48514
000000-1098-591	50,0	-5,0	2	60	0,7	diamond	DM48513
000000-1138-881	50,0	-14,4	2	60	0,7	diamond	DM48505
000000-1262-181	50,0	-14,4	2	30	0,8	diamond	DM48588
000000-1138-888	50,0	-14,5	2	60	0,7	diamond	DM48511
000000-1098-589	50,0	-15,5	2	60	0,7	diamond	DM48507
000000-1098-593	50,0	-30,5	2	60	0,7	diamond	DM48515
000000-1138-885	100,0	-21,5	500		0,7	ruby	DM48508
000000-1098-590	125,0	-25,5	500		3,2	ruby	DM48509

ThermoFit® styli for Surfcom 3000/5000

Styli for Surfcom 3000 and 5000. Made in Germany in original Carl Zeiss ThermoFit design. The stylus arm is made of high strength and very stiff and light carbon fiber tubes. We obtain our diamond tips only from European quality manufacturers. We also manufacture custom styli according to your wishes. Just give us a call! The styli are calibrated before the delivery and are instantly ready for use.
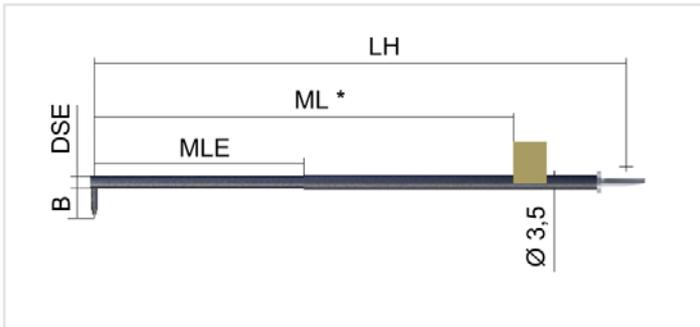
Art-Nr	LH	LV	radius (µm)	angle (°)	tactile power (mN)	TMAT
626108-6003-020	50,0	-4,0	2	60	0,8	diamond
626108-6004-020	50,0	-6,0	2	60	0,8	diamond
626108-6001-020	50,0	-13,1	2	60	0,8	diamond
626108-6008-020	50,0	-15,5	2	60	0,8	diamond
626108-6000-020	50,0	-29,8	2	60	0,8	diamond
626108-6002-020	125,0	-34,8	500		3,2	ruby

Fax request for styli
Surfcom 2000/3000/5000

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

Shaft material: carbon fibre/ThermoFit

* Note: This is your desired depth of immersion and not the actual position of the counterweight.

Stylus tip diamond	
55°/2 µm	☐
60°/2 µm	☐
40°/5 µm	☐
60°/5µm	☐
90°/5µm	☐

Device type	
Surfcom 2000	☐
Surfcom 3000	☐
Surfcom 5000	☐

LH for S3000/5000	
50 mm	☐
100 mm	☐
125 mm	☐

LH for S2000	
65 mm	☐
135 mm	☐

Stylus arm dimensions	
B mm	
ML mm	
MLE mm	
DSE mm (min. Ø1 mm)	

Quantity	
pcs	

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

Measure everywhere

Measure the roughness of your workpiece simple and quick with the Surfcom 130 and the Handysurf. Even for complicated workpiece geometries you will find the proper solution in our wide range of styli. The evaluation meets the currently valid standards and comprises all common roughness parameters.
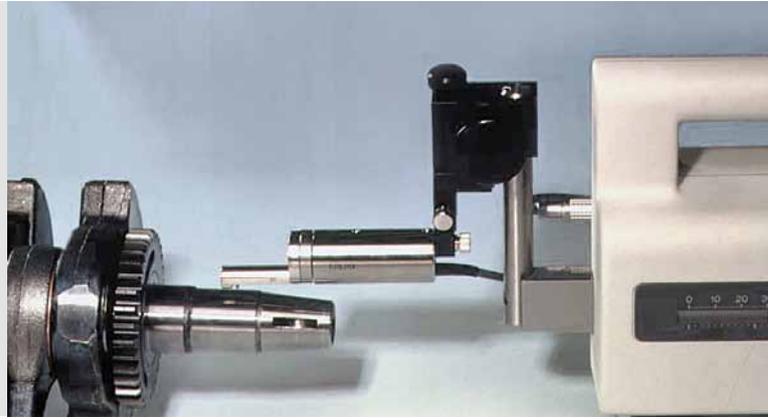
The portable measuring units from Carl Zeiss are excellent for mobile operations, both in the shop floor and in the measuring cabin. It's best for use directly in your CNC machine by separation of the traverse and evaluation unit.

The variety of the fields of application is completed by a broad range of practical accessories. Thus almost every measuring task is possible, be it the Handysurf in any position or even with an interface to the ZEISS measuring software Calypso.
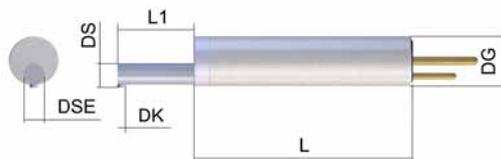
Handysurf

Handysurf E-35B

Handysurf makes it simple and mobile, whether in the receiving control, the shop floor or in the final inspection. Because this compact handheld measuring unit is coming on the spot for the work-pieces. Measurements can be done flexible in every position. Of course, it disposes all current surface standards and evaluates all common characteristic values. You can see your measured values instantly on the easily legible and high-contrast LCD-Display. A printer is optionally available for the data output. Measuring, evaluating and logging surface rough-ness can't get much easier, than with the Handy-surf E-35B.

Art-Nr	Description
625006-8109-000	Handysurf E-35B

Accessories	
625006-3153-000	stylus extension 50 mm Handysurf
625006-3154-000	stylus extension angle 90° Handysurf
626108-9050-000	articulated arm with magnetic stand Handysurf
000000-1092-434	cable for small type printer Handysurf
000000-1191-183	thermoprinter standard DPU-H245
000000-1092-408	paper holder for printer Handysurf
000000-1191-185	paper, 10 rolls for Thermoprinter
625006-3152-000	AC-adapter Handysurf 230V
000000-1092-410	battery pack BP-3006
000000-1092-440	connection cable to PC RS-232C

Styli for Handysurf

These styli are the perfect complement for your Handysurf 35B roughness measurement machine. They are easily exchangeable and expand the field of application of your machine.

Art-Nr	L	L1	DK	DG	DS	Accretech
625006-3263-000	56,00	12,30	1,50	9,50		E-DT-SM10A
625006-3264-000	56,00	14,50	1,50	9,50	4,50	E-DT-SM11A
625006-3265-000	56,00	14,50	1,50	9,50	2,70	E-DT-SM12A
625006-3266-000	56,00	7,20	1,50	9,50	2,80	E-DT-SM13A

Surfcom 130

Surfcom 130

The comfortable surface measuring machine Surfcom 130 is engineered for the flexible use at the shop floor level. It consists of a 50mm traversing unit with high accuracy in straightness, a built-in datum plane, and a powerful evaluation unit. The operation takes place on the clear display (Touch-Screen). Calibration and input helper, language switcher and notepad are useful functions besides the large measuring and evaluation performance. The Surfcom 130 possesses a PCMCIA-Card-Drive to save the programs and data. Additionally, the results can be printed on the integrated thermal printer or displayed via the RS232-interface on your PC with the help of the optional surface software TIMS. You can find the matching styli in this catalog in the section "roughness styli". Treat your equity with care. We offer fast and uncomplicated leasing for these machines. Don't hesitate to contact us.

Art-Nr	Description
000000-1019-534	Surfcom 130 monochrome
000000-1019-536	Surfcom 130 colour
Accessories	
000000-0500-698	USB/Serial Converter
000000-1014-674	thermal paper 10 rolls/box
000000-1319-226	RS-232-C wire (9 pin to 9 pin) for TIMS-light
625007-0135-000	PC-Card 128 MB E-MU-S50C
625007-0079-000	AC adapter 230V Surfcom 130 E-SC-S371A
625006-3283-000	power cable for 230V, Europe E-SC-S101A
000000-1041-911	roll foot (Outer - o . 60mm) E-MA-S62A
625006-3303-000	universal pickup holder E-DH-S107A
625006-3304-000	pickup holder for horizontal tracing E-DH-S17A
000000-1128-019	Tims-Light Software, German
000000-1128-020	Tims-Light Software, English
000000-1128-021	Tims-Light Software, Italian
000000-1128-022	Tims-Light Software, French

Surfcom Flex 50A

Surfcom Flex 50A

Model combination with small genuine type 50mm tracing driver of S130A. Small tracing driver, available skidless measurement and waviness measurement. Achieve class highest straightness accuracy 3µm/50mm Easy levelling adjustment by tilting support function.

Art-Nr	Description
625006-9066-000	Surfcom Flex 50A
625006-9067-000	Surfcom Flex 35B with standrad tracing driver of Handysurf
Accessories	
625006-9072-000	Standard-Pickup D=12.3 mm (2µm tip) only for Handysurf 35B
625006-8204-000	Pickup D=4,5 mm E-DT-SM40A (geometry like E-DT-SM11A) for Handysurf HS35/40
625006-8205-000	Pickup D=2,7 mm E-DT-SM41A (geometry like E-DT-SM12A) for Handysurf HS35/40
625006-8206-000	Pickup for groove measurement 7,2 mm E-DT-SM42A (geometry like E-DT-SM13A) for Handysurf HS35/40

Accessories

Stand for portable devices

Hard stone plate with height adjustable seating for Surfcom 130 or Handysurf (optional).
A Surfcom 130 can be quickly and easily mounted to the height adjustable seating or also a Handysurf with the help of an optional adapter angle. Workpieces or clamping systems can be applied to the plate. The measuring point can be reached smoothly with the accurate and robust z-adjustment. The height adjusting range is 300 mm. The dimensions of the granite plate are 400x250x50 mm. (Delivery without measuring machine).

Art-Nr	Description
626108-8200-001	measuring stand for Surfcom 130A, Handysurf
626108-8100-002	adapter Handysurf for compact measuring stand

Useful for Surfcom

Keep your workpieces safe and stable during the measuring run with our clamping systems. Positioning systems, precision positioning systems and clamping systems are very important to position your workpieces for the measurement. All components have to be compatible to allow a quick and simple installation of the clamping to measure the workpiece.

Positioning systems are rotary and sliding units, used to pre-position large and heavy workpieces on the granite table of the measuring machine. Index bolts are mostly used to arrest coarse positioning. Some of the systems already have an integrated fine adjustment. This adjustment helps to position the measuring point directly beneath the stylus.

An additional precision positioning system is required if a fine adjustment was not installed. Precision positioning systems are rotary and sliding units with micrometer screws and they enable the sensitive positioning of the workpiece. XY-tables, rotary and swivel units, or rotary and sliding units can be created by stacking precision positioning systems.

A clamping system will then lock the workpiece by using bench vises and three jaw chucks in different dimensions.

Additional accessories and care materials, to improve the quality of your measurement, can be found at the end of the chapter.
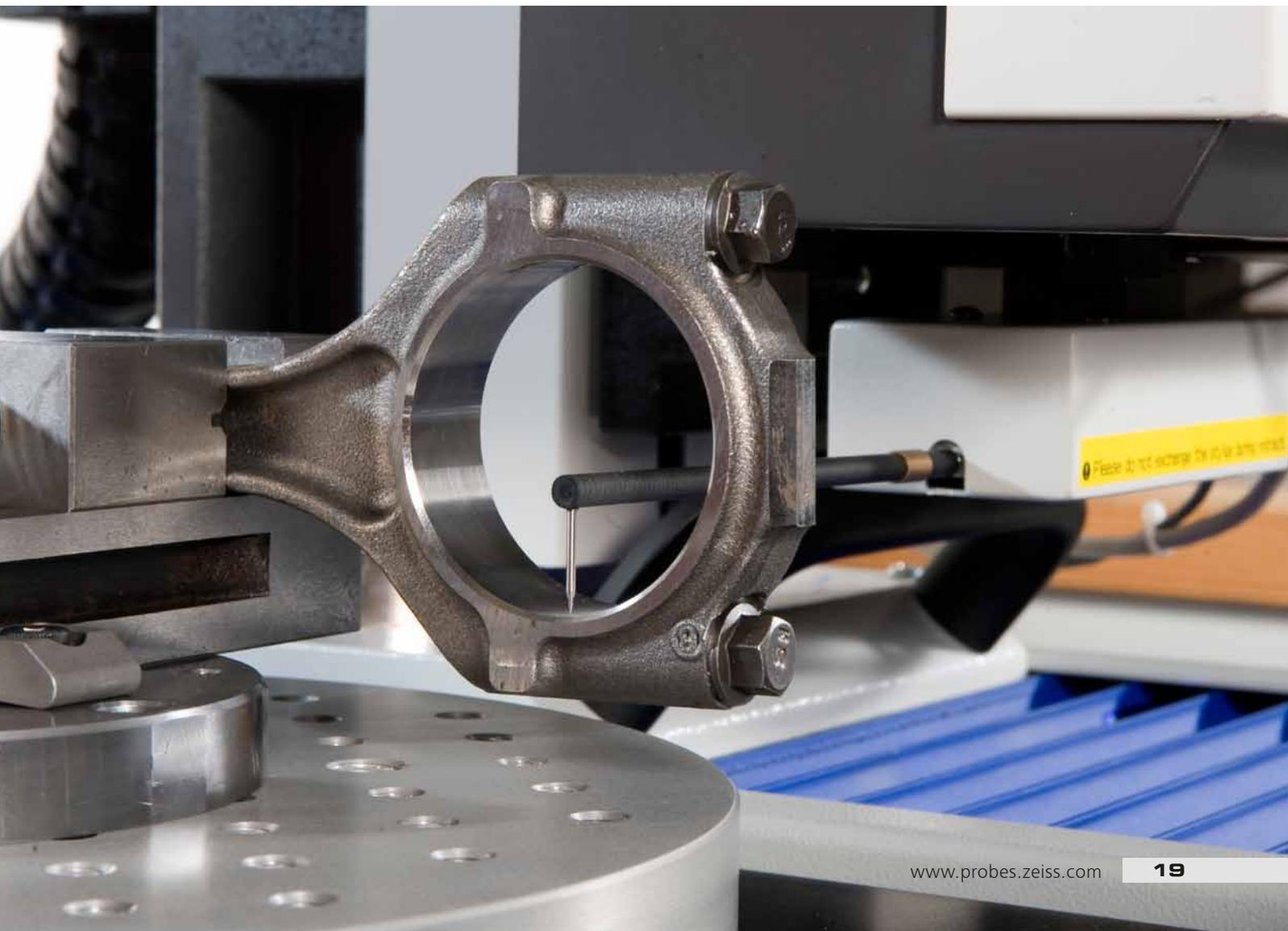
Positioning systems

XY-sliding table

Manual sliding table for Surfcom 1500, 1700, 1900, 2000, 2700, 2900.

A Surfcom can be installed on the sliding table. The Surfcom can be moved freely in the XY plane to easily and quickly reach measuring positions on large workpieces. The sliding mechanism with linear guiding is lockable in every position on the hard stone table. The table is placed on a base frame with vibration isolation system. Two T groove rails with a nominal dimension of 14 are mounted on the plate and enable the mounting of devices.

The table will be delivered completely assembled and with CE-Conformity, user manual and risk analysis. The delivery doesn't include a Surfcom.

Treat your equity with care. We offer fast and uncomplicated leasing for these machines. Don't hesitate to contact us.

Art-Nr	Description
626108-8210-010	Surfcom positioning table 1200x800 mm
626108-8210-020	Surfcom positioning table 1200x800 mm 1500x1000 mm

Positioning table

Positioning table for rotating and sliding of heavy workpieces. The table is mounted to the granite plate of the Surfcom. The coarse adjusting with linear guiding in Y-direction of 200 mm adjustable range is lockable in every position. The fine adjusting of the Y-direction is being made by a micrometer screw with an adjustable range of ±10 mm. The rotary unit is lockable in every position. A micrometer screw additionally enables a fine adjusting. Dimensions about 330 x 320 x 100 mm, base plate rotary unit Ø 260 mm with threaded hole M8 in the grid 25 mm and fastening screw thread M5 for Surfcom standard accessories, carrying capacity 100 kg.

Art-Nr	Description
626108-9050-010	Y-positioning table 200 mm with turntable

Precision positioning systems

Swivel unit

The goniometer tilting table with angle setting range of +/- 20° allows small workpieces to be tilted out of the horizontal level. Dimensions 60 x 60 x 20 mm. The swivel unit can be mounted to the other precision positioning systems.

Art-Nr	Description
626108-9081-000	goniometer tilting table 60x60 mm

Rotary unit

The rotary unit with rugged sliding guide enables the precise rotating of the workpiece around an axis. It has a coarse adjustment and a fine adjustment screw with scale division 1° and vernier scale 0.1°. Dimensions: diameter 110 mm, height 25 mm. The rotary unit can be mounted to the sliding unit. Additional clamping devices can also be mounted to the rotary unit (adapter plate required).

Art-Nr	Description
626108-9080-000	sliding movement type rotation stage 110 mm

Sliding unit

Made of sturdy stainless steel, the axial sliding unit has a carrying capacity of 100 kg. A fine adjustment screw enables an adjustment range of +/- 6 mm. Two sliding units can be combined to a cross table. Rotary unit, swivelling unit or specific clamping devices from the Surfcom accessories can be mounted to the sliding unit. Dimensions 120 x 120 x 25 mm.

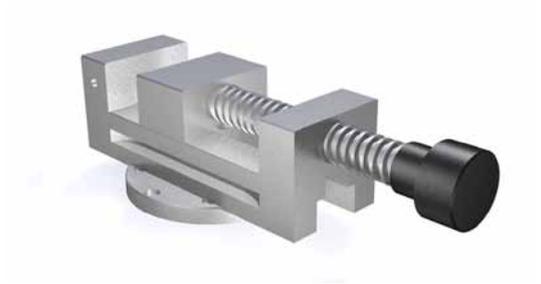| Art-Nr	Description
626108-9070-000	axial adjustment unit with precision adjustable screw

Adapter plate

Adapter plate dia. 120 mm for mounting on Surfcom CNC units with center dia. 16. Incl. screws M4 and M5.

Art-Nr	Description
626108-9090-000	adapter plate Surfcom CNC dia. 120 mm

Clamping systems

Bench vises

Bench vise with adapter plate for the assembly on Surfcom positioning systems or precision adjustment systems as well as directly on the Surfcom granite table. The bench vise is made of steel and delivered with the required fastening material. The bench vises are moveable along the adapter plate.

Art-Nr	Description
626108-9021-050	bench vice 50 mm jaw width 50 mm, span width 67mm
626108-9021-073	bench vice 73 mm with adapter plate, span width 101 mm
626108-9021-100	bench vice 100 mm with adapter plate, span width 127 mm
626108-9021-125	bench vice 125 mm with adapter plate, span width 162 mm

Center bench vise

Center bench vises clamp workpieces with various dimensions to the center. Workpieces don't have to be readjusted every time the workpiece changes. The bench vise is made of steel and has exchangeable hardened jaws with a jaw width of XX mm and a span width of XX mm.

Art-Nr	Description
626108-9022-070	centering bench vise, jaw width 70 mm, span width 70 mm

Rotatable bench vise

Bench vise can rotate and swivel in 2 axis with a jaw width of 70 mm and a span width of 80 mm. The tilting area is +/- 45°. The rotary area is 360°. The rotatable bench vise is made of steel and delivered with the required fastening material. The bench vise can be mounted directly to the Surfcom.

Art-Nr	Description
626108-9010-000	rotatable bench vice 70 mm jaw width

Machine parts

Three jaw chuck

Three jaw chucks, made of steel, are fastened
to an adapter plate and can be mounted to the
Surfcom positioning systems and fine adjustment
systems as well as directly to the granite table of
the Surfcom.
Fastening material as well as a jaw set for each,
inside and outside, is provided.

Art-Nr	Description
626108-9031-050	three jaw chuck turret 50 mm with adapter plate
626108-9031-080	three jaw chuck turret 80 mm with adapter plate
626108-9031-100	three jaw chuck turret 100 mm with adapter plate
626108-9031-125	three jaw chuck turret 125 mm with adapter plate

Vee blocks

Precision vee blocks made of hardened steel are
honed and have a 90° prism. Vee blocks are suited
for cylindrical parts.

Art-Nr	Description
626108-9110-000	Vee block 100x47 mm for shafts 5-55 mm
626108-9110-010	Vee block 250x65 mm for shafts 5-100 mm

Build customized positioning tables
Our positioning and clamping systems are additionally
combinable with each other.

Interchangeable 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 intreface (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 measureing 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 fix-
tures with bracket clamps or other elements inclu-
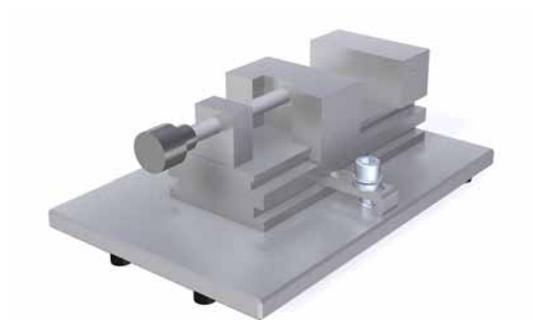ded in our clamping kit (000000-0411-562).

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.

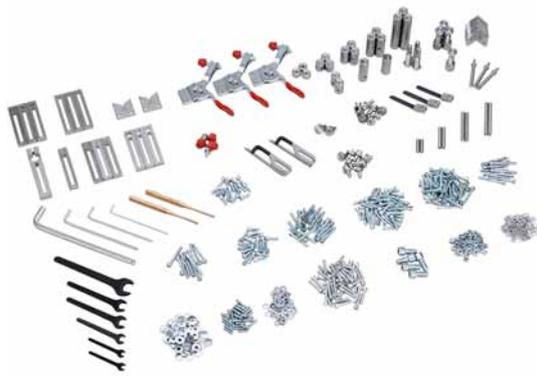| Art-Nr	Description
626109-9220-030	bench vice interface

Jaw chuck Interface

300 x 200 mm interface with an attached three
jaw chuck. A handy catch to operate the chuck is
also provided.
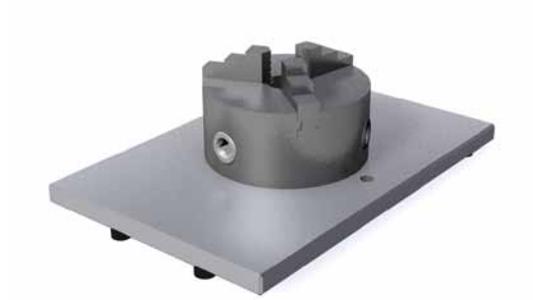
Art-Nr	Description
626109-9220-040	jaw chuck interface

CMB-E clamping kit

The extensive CARFIT® CMB KIT - System E inclu-des clamping and positioning elements. This kit allows a fast and simple assembly of workpiece specific clamping devices. Base plate not included, has to be ordered separately.

Art-Nr	Description
600062-0210-000	CARFIT® CMB KIT - system E
Accessories	
626109-9220-020	raster interface M6x25

Cleaning material

Cleanliness is essential for precision measuring. The workpiece has to be cleaned to achieve opti-mum measuring results. Our cleaning material was tested in field by our users and is recommended for roundness measuring machines.

Art-Nr	Description
626119-0010-006	Polyamide-stretch-glove with PU coated palm
000000-1359-469	microfiber cleaning tissue
000000-0424-218	cleaning cloths Absorbond TX409,9" x9"
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.)
626119-0010-005	dust off 360 Super
000000-0084-895	JFA-CLEAN bottle 1L

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.

Reference blocks

Contour-Check can be used to test contour measuring machines in accordance with VDI/VDE directive 2629, sheet 1. The use of the contour standard allows the user to regularly verify compliance with the specifications of the contour measuring machine.
The carrier of the standard consists of hard metal, on which calibrated, high-precision dimensional standards and form elements are mounted.
- 185 mm total length with 9 form elements
- 2 x 90° angle, convex
- 2 x 90° angle, concave
- 3 x radius, convex
- 2 x radius, concave
Contour-Check is delivered with a fixture that permits measurement of the standard at 0° and 20° inclinations in accordance with the VDI directive.
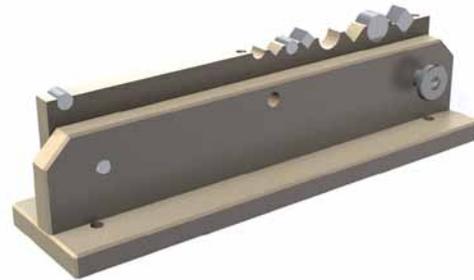
Art-Nr	Description
600332-9230-000	Contour-Check with case
600332-9230-100	DKD-calibration Contour-Check

Roughness standard

The roughness standard is used for calibration and inspection of the roughness measuring machine. It features two different surfaces with known roughness values. The values are denoted on the standard. For use with Handysurf, Surfcom 130,1500, 1900,2000 and 5000.
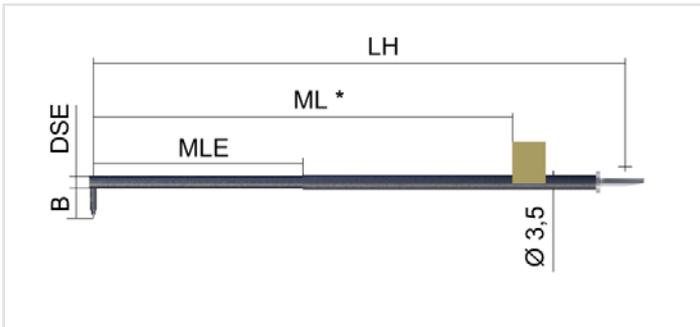
Art-Nr	Description
000000-1098-899	roughness calibration, E-MC-S24B

Fax request for styli
Surfcom 2000/3000/5000

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

Shaft material: carbon fibre/ThermoFit

* Note: This is your desired depth of immersion and not the actual position of the counterweight.

Stylus tip diamond	
55°/2 µm	☐
60°/2 µm	☐
40°/5 µm	☐
60°/5µm	☐
90°/5µm	☐

Device type	
Surfcom 2000	☐
Surfcom 3000	☐
Surfcom 5000	☐

LH for S3000/5000	
50 mm	☐
100 mm	☐
125 mm	☐

LH for S2000	
65 mm	☐
135 mm	☐

Stylus arm dimensions	
B mm	
ML mm	
MLE mm	
DSE mm (min. Ø1 mm)	

Quantity	
pcs	

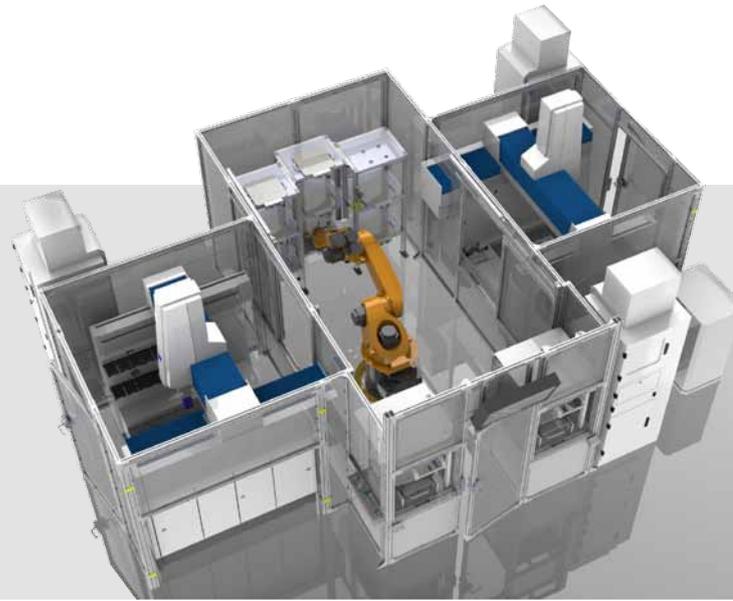| Company:	
Department:	
Name, First:	
Address:	
Zip / City:	
Phone:	Fax:
E-Mail:	

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.
Send your inquiries to:

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