

Mahr

Mahr | A passion for detail

Edition
2025

Mahrlights

MarConnect

Best performance in every step

Integrated Wireless

130 products in 4 product groups

MarCator

Digital dial indicators with touch keys and modern connectivity

Many more innovations

New!



Special offer prices

09/17 - 12/31/2025



www.metrology.mahr.com

Your interface for **even greater performance**

Two steps to the goal: combine your Integrated Wireless instruments with our multifunctional MarCom Professional software. This versatile interface tool combines data acquisition and data transfer with your data processing. How you process the collected data is entirely up to you – for maximum flexibility, choose from a range of output formats.

Enjoy maximum individuality at the workplace with a free choice of output medium and four output formats:

- Virtual interface box: CAQ/SPC software
- Intelligent Excel interface: Microsoft Excel
- Emulation keyboard: any Windows software
- Text file: flexible data processing



MarCator 1087 Ri digital indicators



Software: MarCom Professional available for free download: www.mahr.com/marcom



The Micromar 44 EWri clamp measuring screw with integrated wireless



MarSurf M 310 roughness measuring instrument with USB wireless adapter

Improved functions:

- Additional data: Additional values are transferred to supplementary columns (name, serial number, item number, date and time)
- Device parameters can now be preset: reference values (preset, tolerance limits, warning limits in %), as well as, function locks can be queried and changed on the instrument
- Improved Excel functionality:
 - Easily undo the last data transfer – right in the program with a simple click
 - Adapted column and row names: Z1S1 reference style for use with Excel as in practice

Powerful and user-friendly due to continual updates!

Perfectly coordinated: MarCom Professional is the ideal data transfer software for all your quality assurance and production needs then start new sentence It is perfectly equipped from the Integrated Wireless product line. A number of additional functions offer users maximum convenience when recording and transferring measurements.

3x
faster
configuration

Save time:
conveniently configure your measuring instruments via PC interface and eliminate the need for manually setting the instrument.

99 %
more reliable

Avoid operating errors:
all information is automatically transferred and assigned thanks to the automatic identification of measurements and serial number transfers.

New features:

- IATF ready: transfers and displays the measuring equipment ID and item and serial number to clearly allocate the measuring equipment to the measurements
- Tab settings in up to 3 areas: settings, device parameters and goal
- Scalable measurement value display
- Manually sort the device overview using drag-and-drop



It couldn't be easier!

Scan the QR code and watch the video showing the practical application of the Integrated Wireless handheld measuring devices.

Comprehensive product range with Integrated Wireless

Mahr offers a comprehensive range of measuring instruments with integrated wireless data transmission. for use in all areas of industrial manufacturing and quality control. The Integrated Wireless range from Mahr delivers accurate measuring results with full mobility. Modern, simple measuring solutions – without the limitations of wired technology.

4

Product groups

130

Products



MarCal 16 EWRI

Digital calipers



Micromar 40 EWRI

Digital outside micrometers



MarCator 1086 Ri

Digital dial indicators



Micromar 44 EWRI

Digital inside micrometers



MarCator 1086 Ri with stand

Digital dial indicator



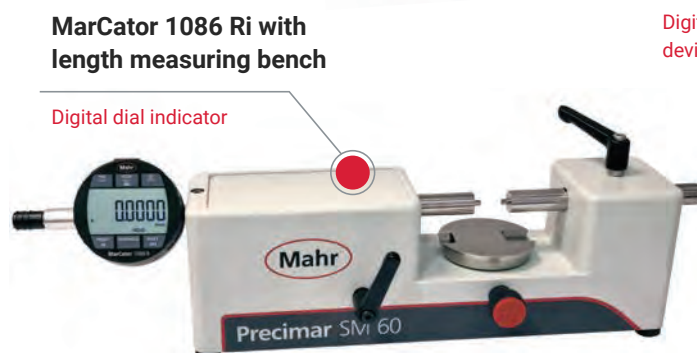
Micromar 844 EWRI

Digital inner measuring devices



Millimes 2001 Wi

Inductive dial comparators



MarCator 1086 Ri with length measuring bench

Digital dial indicator

MarCal 16 EWRI / 30 EWRI

Digital calipers with wireless interface

Mahrlights



4103400

2,500
MarCal 16 EWRI



4126671

5,100
MarCal 30 EWRI

Order no.	Product	Measuring range	Resolution	Depth rod	Details	List price	Offer price
		mm	mm			NOK	NOK
4103400	16 EWRI	0 – 150	0,01	round	With measuring blades	4,350	2,500
4103402	16 EWRI	0 – 150	0,01	square	With measuring blades	4,350	2,500
4126671	30 EWRI	0 – 150	0,01		With measuring pin Ø 1,5 mm	8,090	5,100
4126672	30 EWRI	0 – 200	0,01		With measuring pin Ø 1,5 mm	9,160	5,800
4126673	30 EWRI	0 – 300	0,01		With measuring pin Ø 1,5 mm	10,520	6,600

Accessories for measuring instruments with Integrated Wireless							
4102220	i-Stick	Wireless receiver for measuring instruments with integrated wireless				2,190	1,200

Micromar 40 EWRI / 40 EWRI-L

Micrometers according to your wishes

Mahrlights



4157100



4157120

Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4157100	40 EWRI	0 – 25	0,001	Standard version	5,930	3,400
4157101	40 EWRI	25 – 50	0,001	Standard version	6,970	4,150
4157115	40 EWRI	0 – 100	0,001	Standard version, set with 4 micrometers	31,300	18,600
4157120	40 EWRI-L	0 – 25	0,001	QUICK DRIVE, 5 mm per rotation	7,990	4,400
4157121	40 EWRI-L	25 – 50	0,001	QUICK DRIVE, 5 mm per rotation	8,420	4,990
Accessories for measuring instruments with Integrated Wireless						
4102220	i-Stick	Wireless receiver for measuring instruments with integrated wireless			2,190	1,200

Micromar 44 EWri / 844 EWri

Digital 3-point inside micrometer /
Digital 3-point inside measuring device

New!



- IP 65
- Lock
- TOL
- ABS
- #ID
- Wireless



29,900
Micromar 44 EWri-SET

- Light
- Lock
- TOL
- ABS
- #ID
- Wireless
- Digital



31,000
Micromar 844 EWri-SET



Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4191340	44 EWri	6 – 12	0,001 / ,00005"	Measurement of through holes and blind holes	37,800	22,500
4191341	44 EWri	12 – 20	0,001 / ,00005"	Measurement of through holes and blind holes	32,490	19,300
4191342	44 EWri	20 – 50	0,001 / ,00005"	Measurement of through holes and blind holes	49,900	29,900
4191343	44 EWri	50 – 100	0,001 / ,00005"	Measurement of through holes and blind holes	59,900	35,800
4192340	844 EWri	6 – 12	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	35,850	21,300
4192341	844 EWri	12 – 20	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	37,030	22,000
4192342	844 EWri	20 – 50	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	52,100	31,000
4192343	844 EWri	50 – 100	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	59,900	36,800

Accessories for measuring instruments with Integrated Wireless					
4102220	i-Stick	Wireless receiver for measuring instruments with integrated wireless		2,190	1,200

Detailed information on the products can be found at <https://metrology.mahr.com/en-int/>
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MarCator 1086 Ri / 1087 Ri

Digital dial indicators with touch operation

New!



4337721



4337720



6,200
MarCator 1086 Ri

5,500
MarCator 1086 Ri



4337820



4337821



5,990
MarCator 1087 Ri

6,900
MarCator 1087 Ri

Order no.	Product	Indicator range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4337720	1086 Ri	12,5	0,0005, 0,001, 0,002, 0,005, 0,01	for static measurements such as lengths, distances and length differences	8,520	5,500
4337721	1086 Ri	25	0,0005, 0,001, 0,002, 0,005, 0,01	for static measurements such as lengths, distances and length differences	9,580	6,200
4337820	1087 Ri	12,5	0,0005, 0,001, 0,002, 0,005, 0,01	for static measurements such as lengths, distances and length differences, dynamic measurements such as radial run-out, straightness and flatness using MAX / MIN / MAX-MIN functions	9,450	5,990
4337821	1087 Ri	25	0,0005, 0,001, 0,002, 0,005, 0,01	for static measurements such as lengths, distances and length differences, dynamic measurements such as radial run-out, straightness and flatness using MAX / MIN / MAX-MIN functions	10,700	6,900

Accessories for measuring instruments with Integrated Wireless

4102220	i-Stick	Wireless receiver for measuring instruments with integrated wireless	2,190	1,200
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MarCator 1086 Ri-HR / 1087 Ri-HR

Digital dial indicators with touch operation

Mahrlights



Order no.	Product	Indicator range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4337770	1086 Ri-HR	12,5	0,0001, 0,0005, 0,001, 0,002, 0,005, 0,01	Dial indicator with lowest possible error limit and finest resolution, extensive measuring functions for static measurements	11,000	6,990
4337850	1087 Ri-HR	12,5	0,0001, 0,0005, 0,001, 0,002, 0,005, 0,01	Dial indicator with lowest possible error limit and finest resolution, extensive measuring functions for static and dynamic measurements	12,400	7,990

Accessories for measuring instruments with Integrated Wireless						
4102220	i-Stick	Wireless receiver for measuring instruments with integrated wireless			2,190	1,200

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Millimess 2000 Wi / 2001 Wi

Digital micrometers with touch control

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7,950
Millimess 2000 Wi



4346701



4346801



8,900
Millimess 2001 Wi

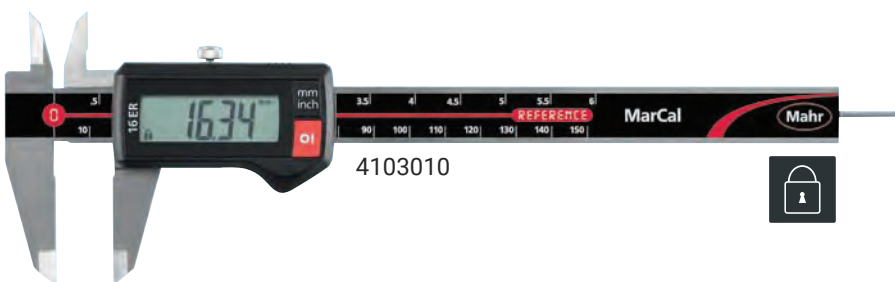
Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4346701	2000 Wi	± 1	0,0001	Highest sensitivity and accuracy, for static measuring tasks	13,370	7,950
4346801	2001 Wi	± 1	0,0001	Highest sensitivity and accuracy, for static and dynamic measuring tasks	15,060	8,900

Accessories for measuring instruments with Integrated Wireless						
4102220	i-Stick	Wireless receiver for measuring instruments with integrated wireless			2,190	1,200

MarCal 16 ER / 16 EWR

Digital calipers without data output

1,210
MarCal 16 ER



4103010





4103300



1,695
MarCal 16 EWR

Order no.	Product	Measuring range	Resolution	Depth rod	Details	List price	Offer price
		mm	mm			NOK	NOK
4103010	16 ER	0 – 150	0,01	round	Lapped guideway	1,790	1,210
4103012	16 ER	0 – 150	0,01	square	Lapped guideway	1,790	1,210
4103205	16 ER	0 – 200	0,01	square	Lapped guideway	3,420	2,150
4103300KAL	16 EWR	0 – 150	0,01	round	Protection class IP 67	2,450	1,695
4103302KAL	16 EWR	0 – 150	0,01	square	Protection class IP 67	2,450	1,695
4103304KAL	16 EWR	0 – 200	0,01	square	Protection class IP 67	3,430	2,390

Items with „KAL“ in the article number are delivered with traceable certificate

MarCal | Digital calipers

MarCal 30 EWR

Digital depth gages



4126651



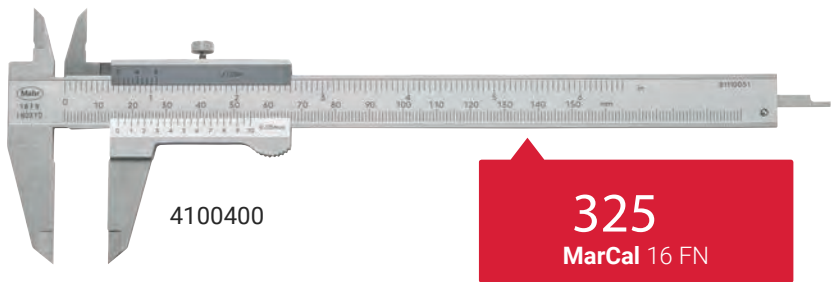
4,200
MarCal 30 EWR

Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4126651	30 EWR	0 – 150	0,01	Protection class IP67	7,000	4,200
4126652	30 EWR	0 – 200	0,01	Protection class IP67	7,745	4,870
4126653	30 EWR	0 – 300	0,01	Protection class IP67	9,350	5,500

MarCal | Vernier calipers

MarCal 16 FN

Pocket calipers



4100400

325
MarCal 16 FN

Order no.	Product	Measuring range	Vernier value	Depth rod	List price	Offer price
		mm	mm/inch		NOK	NOK
4100400	16 FN	0 – 150	0,05/1/128"	square	650	325
4100401	16 FN	0 – 200	0,05/1/128"	square	1,690	990

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Micromar 40 ER / 40 EWR / 40 EWR-L

The insensitive ones for production and workshop

Mahrlights



4157010



4157020

Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4157010	40 ER	0 – 25	0,001	Protection class IP40	3,370	1,980
4157011	40 EWR	0 – 25	0,001	Protection class IP65	4,200	2,500
4157012	40 EWR	25 – 50	0,001	Protection class IP65	5,800	3,500
4157020	40 EWR-L	0 – 25	0,001	IP65, data output, QUICK DRIVE, 5 mm per rotation	7,100	4,300
4157021	40 EWR-L	25 – 50	0,001	IP65, data output, QUICK DRIVE, 5 mm per rotation	8,200	4,900

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Micromar 40 A / 40 SA / 40 AS

Basics for production and workshop

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Outside micrometers with
hard lacquered steel frame



4134000

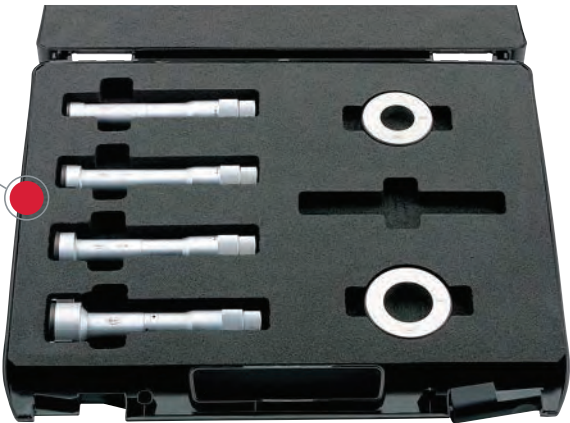
690
Micromar 40 A



4134050

3,950
Micromar 40 SA/SET

3-point inside micrometers sui-
ted for blind bores
(from 12 mm)



4190352

22,900
Micromar 44 AS/SET

Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4134000	40 A	0 – 25	0,01	Glare-free matt chrome-plated display parts	1,150	690
4134001	40 A	25 – 50	0,01	Glare-free matt chrome-plated display parts	1,045	1,050
4134050	40 SA/SET	0 – 100	0,01	Set of 4 micrometers	6,650	3,950
4190350	44 AS/SET	6 – 12	0,001	incl. setting rings 8 mm, 10 mm	22,200	13,300
4190351	44 AS/SET	12 – 20	0,001	incl. setting ring 16 mm	17,060	10,300
4190352	44 AS/SET	20 – 50	0,005	incl. setting rings 25 mm, 40 mm	38,600	22,900
4190353	44 AS/SET	50 – 100	0,005	incl. setting rings 60 mm, 85 mm	45,890	27,200

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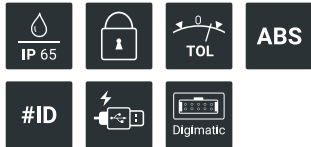
Micromar 44 EWR /844 EWR

Digital 3-point inside micrometer /
Digital 3-point inside measuring device

New!



4191242



29,200

Micromar 44 EWR-SET



29,900

Micromar 844 EWR-SET



4192242

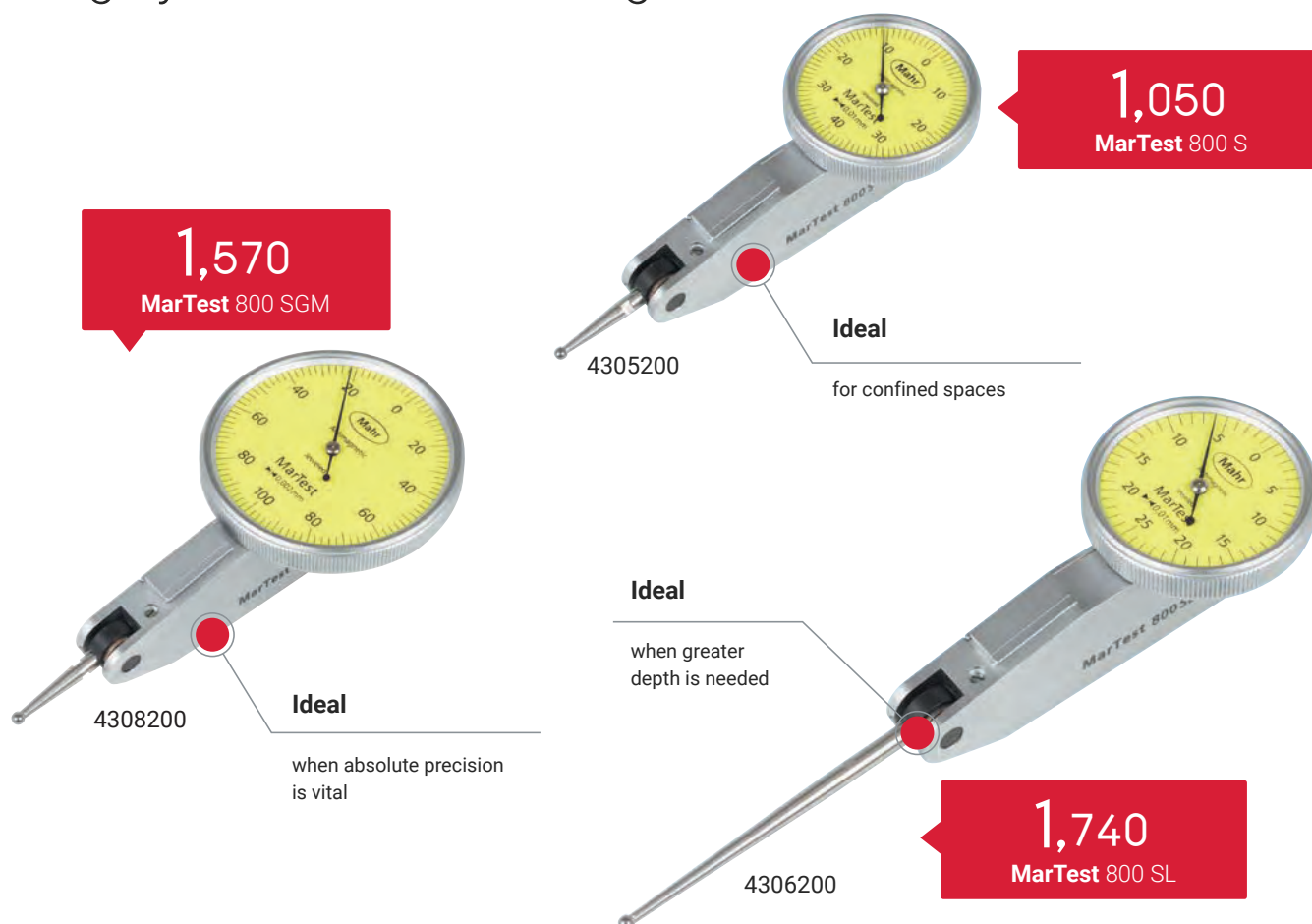
Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4191240	44 EWR	6 – 12	0,001 / ,00005"	Measurement of through holes and blind holes	36,530	21,700
4191241	44 EWR	12 – 20	0,001 / ,00005"	Measurement of through holes and blind holes	31,140	18,500
4191242	44 EWR	20 – 50	0,001 / ,00005"	Measurement of through holes and blind holes	49,150	29,200
4191243	44 EWR	50 – 100	0,001 / ,00005"	Measurement of through holes and blind holes	58,920	35,000
4192240	844 EWR	6 – 12	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	34,500	20,500
4192241	844 EWR	12 – 20	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	35,690	21,500
4192242	844 EWR	20 – 50	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	50,040	29,900
4192243	844 EWR	50 – 100	0,001 / ,00005"	Measurement of through holes and blind holes by lever release	59,600	36,000

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MarTest 800 S / 800 SG / 800 SGM / 800 SL / 810 A

Highly sensitive measuring



MarCator | Dial indicator

MarCator 810 A



Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4305200	800 S	± 0,4	0,01	Dial ø 28 mm, measuring insert length 14,5 mm	1,690	1,050
4307200	800 SG	± 0,4	0,01	Dial ø 38 mm, measuring insert length 14,5 mm	1,700	1,050
4308200	800 SGM	± 0,1	0,002	Dial ø 38 mm, measuring insert length 14,5 mm	2,430	1,570
4306200	800 SL	± 0,25	0,01	Dial ø 28 mm, measuring insert length 41,24 mm	2,730	1,740
4311050	810 A	10	0,01	High-contrast dial face	850	540

MarCator 1075 R / 1086 R / 1087 R

Digital dial indicators

Mahrlights



4336010



1,850
MarCator 1075 R



4337780

3,600
MarCator 1086 R



5,400
MarCator 1086 R



4337701



4337801

5,700
MarCator 1087 R



4337800



4,950
MarCator 1087 R

Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
4336010	1075 R	12,5 mm	0,01 mm	Basic functions for static measuring tasks	2,990	1,850
4336020	1075 R	12,5 mm	0,005 mm	Basic functions for static measuring tasks	4,080	2,550
4336030	1075 R	12,5 mm	0,001 mm	Basic functions for static measuring tasks	6,090	3,800
4337780	1086 R	12,5 mm	0,01 mm	for static measurements such as lengths, distances and length differences	5,540	3,600
4337700	1086 R	12,5 mm	0,0005, 0,001, 0,002, 0,005, 0,01 mm	for static measurements such as lengths, distances and length differences	6,830	4,400
4337701	1086 R	25 mm	0,0005, 0,001, 0,002, 0,005, 0,01 mm	for static measurements such as lengths, distances and length differences	8,360	5,400
4337800	1087 R	12,5 mm	0,0005, 0,001, 0,002, 0,005, 0,01 mm	for static measurements such as lengths, distances and length differences, dynamic measurements such as radial run-out, straightness and flatness using MAX / MIN / MAX-MIN functions	8,160	4,950
4337801	1087 R	25 mm	0,0005, 0,001, 0,002, 0,005, 0,01 mm	for static measurements such as lengths, distances and length differences, dynamic measurements such as radial run-out, straightness and flatness using MAX / MIN / MAX-MIN functions	9,420	5,700

Mahrlights

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Millimar C 1200 / P 2004

Smart and universal application



5312012

12,100
Millimar C 1200 M

Compatability:
M = Mahr



5323010

3,500
Millimar P 2004 M

Order no.	Product	Numerical display	Resolution	Details	List price	Offer price
		µm	µm		NOK	NOK
5312012	Millimar C 1200 M	± 5000	0,1	High-resolution, high-contrast TFT color display	21,870	12,100
5312011	Millimar C 1200 T	± 5000	0,1	High-resolution, high-contrast TFT color display	21,870	12,100

Order no.	Product	Measuring range	Measuring force	Details	List price	Offer price
		mm	N		NOK	NOK
5323010	P 2004 M	± 2	0,75	Inductive probe	6,200	3,500
5323011	P 2004 T	± 2	0,75	Inductive probe	6,200	3,500

Millimar C 1202 / N 1702

Flexible evaluation and display anywhere



5312025

10,400
Millimar C 1202



5331120

4,600
Millimar N 1702 M

9,800
Millimar N 1702 M-HR



5331125

Order no.	Product	Numerical display	Resolution	Details	List price	Offer price
		µm	µm		NOK	NOK
5312025	Millimar C 1202	± 999 999,9	0,01, 0,1, 1	High-resolution, high-contrast TFT color display	21,590	10,400

Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	µm		NOK	NOK
5331120	Millimar N 1702 M	± 2	0,1	Module for 2 inductive probes, Resolution 0,1 µm	9,525	4,600
5331125	Millimar N 1702 M-HR	± 0,2	0,01	Module for 2 inductive probes, Resolution 0,01 µm	17,930	9,800

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Digimar 814 SR

Ideal for the workshop, robust and universally applicable

Digimar 814 SR Height Measuring and Scribing Instrument

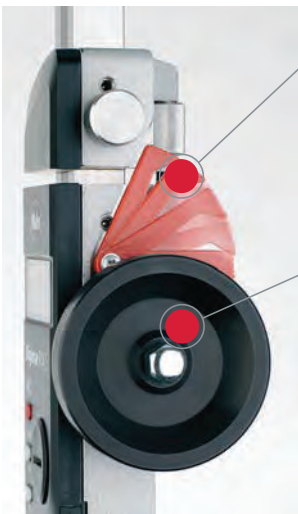
Exact positioning by handwheel

7,900

Digimar 814 SR



4426100



Clamping lever

for quickly securing the slide unit

Handwheel

for easy positioning and measuring

Order no.	Product	Measuring range	Resolution	Details	List price	Offer price
		mm	mm		NOK	NOK
4426100	814 SR	0 – 350	0,01	Digit height 12 mm, handwheel for positioning and measuring	13,320	7,900
4426101	814 SR	0 – 600	0,01	Digit height 12 mm, handwheel for positioning and measuring	23,080	13,700
4426104	814 SR	0 – 980	0,01	Digit height 12 mm, handwheel for positioning and measuring	29,900	17,900

Precimar SM 60 / SM 60-V

Simple and robust, ideal for production and QA

Precise measuring results

thanks to high-precision spring-mounted measuring spindle

Mount

for measuring equipment (digital dial indicator, probes, etc.)

Clamping lever

for securing the contact

Release lever

for easy lifting of the movable probe

Clamping screw

for securing the support table

5357360

16,900

Precimar SM 60

17,900

Precimar SM 60-V

SM 60-V

for universal use thanks to interchangeable anvils

5357380

Sample application:

Measuring the diametric dimension over balls of a gear

Order no.	Product	Indicator range	Application range	Mount ø	Details	List price	Offer price
		mm	mm	mm		NOK	NOK
5357360	SM 60	25	0 – 60	8	Table size ø 60 mm	28,000	16,900
5357370	SM 60	25	0 – 60	8	Table size ø 60 mm	28,000	16,900
5357380	SM 60-V	25	0 – 60	8	Table size ø 60 mm, including pair of carbide measuring anvils ø 3.5 mm	32,000	17,900
Indicating instrument not included in delivery							
Zubehör							
5357311	Measuring anvil set for SM 60-V 2x 40 Ef (flat), 40 Ea (offset), 40 Et (disk), 40 Er (spherical), 40 Ep (cone), 40 Es (cutting edge)					7,900	4,200

Precimar SM 350 / 650 / 1150

New!

Time and cost savings

Simply enter the desired reference value and the setting instrument moves to the desired dimension. No more timewasting searching for the correct setting ring diameter or putting together gage block combinations.

Simply adjust dimensions by touch

The intuitive operation is carried out using large, clear keys for quick and straightforward settings.

Superior convenience

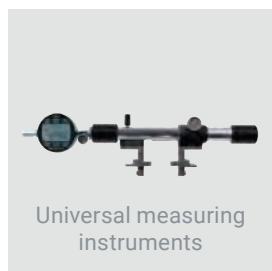
Creating favorites makes regular adjustments even easier. The corresponding dimension is set directly by scanning the barcode on the measuring instrument.



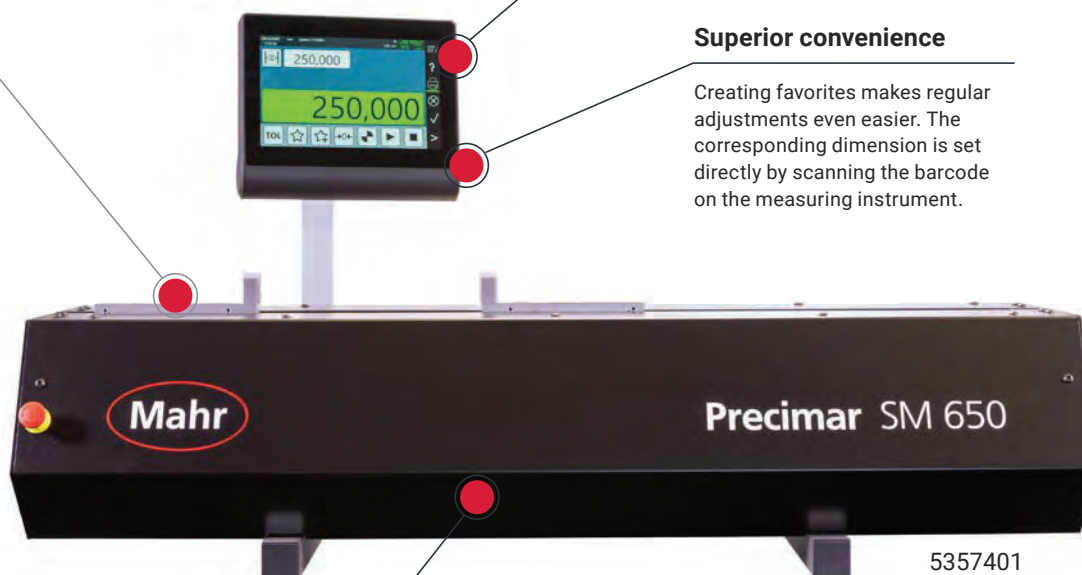
2-point inside measuring devices



Indicating snap gages



Universal measuring instruments



High accuracy

With an accuracy of $0.7 \mu\text{m} + L / 1000$, gage block combinations and setting rings can be easily replaced.

290,000
Precimar SM 650

Order no.	Product	Indicator range	Application range	Mount $\varnothing$	Details	List price	Offer price
		mm	mm	mm		NOK	NOK
5357400	SM 350	350	0 – 355		Setting instrument	290,000	220,000
5357401	SM 650	650	0 – 655		Setting instrument	390,000	290,000
5357402	SM 1150	1150	0 – 1155		Setting instrument	490,000	350,000

MarSurf PS 10

Mobile measuring made easy

Including new surface standard
DIN EN ISO 21920

The MarSurf PS 10 is the ideal entry level instrument for surface metrology: Its extraordinarily simple and intuitive operation, along with numerous safety functions including the automatic cutoff, make the device as easy to control as a cellphone. Due to its minimal size, it is also perfect for location-independent measurements – vertical, horizontal and even overhead if necessary. And thanks to the removable drive unit, the MarSurf PS 10 can be used flexibly in production.

The measuring instrument boasts three order options for increased flexibility: with stylus tip 2 µm, 5 µm and also a variant with a transverse drive unit (MarSurf PS 10 C2).

- Intuitive operation: As easy as using a smartphone with a rotatable display
- Creates complete PDF measuring records right in the measuring instrument and data backup as TXT, X3P, CSV and PDF files
- Customized comments for the PDF measuring record entered directly into the MarSurf PS 10
- Error-free operation thanks to an integrated, removable roughness standard
- Automatic cutoff selection, ensuring that even non-specialists get the correct measuring results
- PHT Probe easy to clean

9

other optional
probes

Always at hand

The calibration standard stays in the instrument and can be checked at any time.



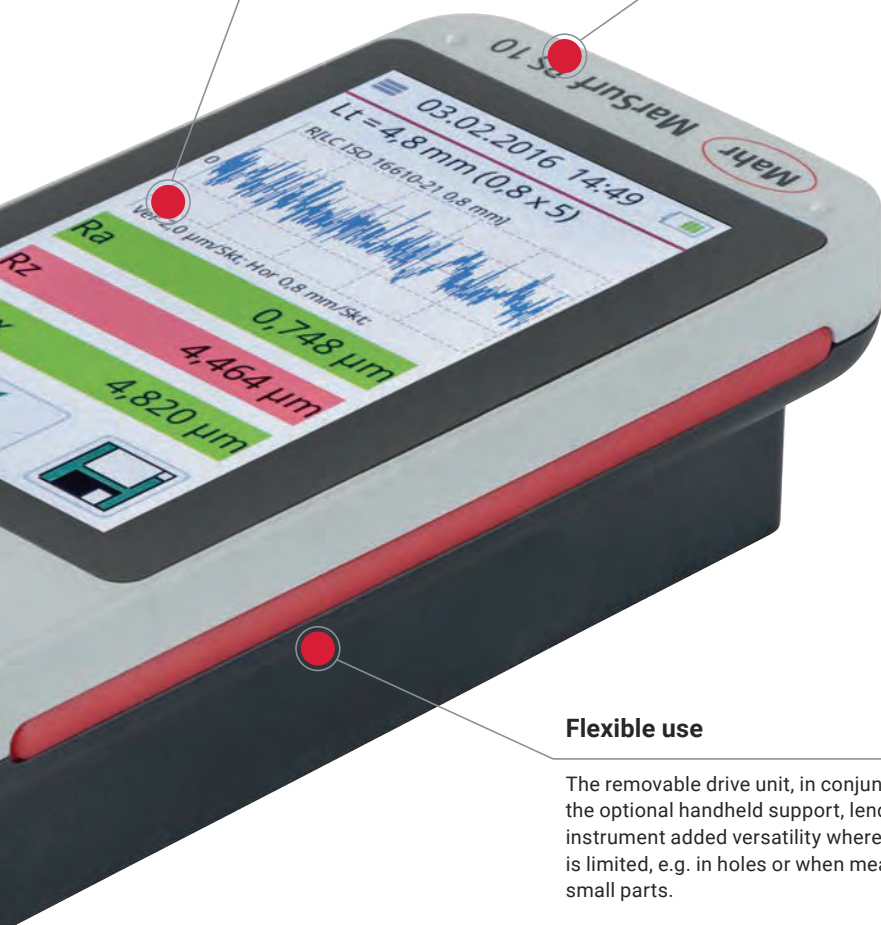
500 g
lightweight

Extremely easy to operate with detailed profile display

The large 4.3" high-resolution and backlit TFT touch display allows intuitive operation and precise representation of the measuring profile.

Perfect evaluation and documentation

Measuring records are automatically created in the instrument without the need for additional software.



Flexible use

The removable drive unit, in conjunction with the optional handheld support, lends this instrument added versatility where space is limited, e.g. in holes or when measuring small parts.

up to

500,000

measurements
can be stored in the instrument

31

parameters
same range of functions as a
laboratory instrument

4.3"

TFT touch display
similar to a smartphone

at least

1,200

measurements
without power supply

22,500
MarSurf PS 10



6910230

Order no.	Product	Measuring range	Probe	Details	List price	Offer price
6910230	PS 10	µm 350	Skidded probe system	Storage capacity for min. 3900 profiles, min. 500,000 results, min. 1500 PDF protocols, expandable with microSD card up to 32 GB	NOK 34,900	NOK 22,500

Detailed information on the products can be found at <https://metrology.mahr.com/en-int/>
All illustrations and figures etc. are without guarantee. All prices quoted are non-binding recommended prices. The net prices in NOK plus VAT are valid from September 17 to December 31, 2025

MarSurf M 310

Brings added value for mobile roughness measurement

**Including new surface standard
DIN EN ISO 21920**

Are you used to using your smartphone to access your data anytime, wherever you are? That is exactly what Mahr's MarSurf M 310 provides you with: A versatile device for the mobile recording and evaluation of measuring data. Simple operation and a robust design

make this Mahr product perfectly suited for use in production, where dirt and dust can clog the instrument and it is often users with little prior knowledge performing the quality control.

For all those who need more

The **MarSurf M 310** has the same functions as the PS 10 but has even more crucial added benefits for you:

- 1 Print directly, document easily**
Measuring results in paper form? Sometimes still the fastest way! The mobile printer allows you to save data on thermal paper, which can then be added directly to the workpiece.
- 2 Preprogrammed measuring functions for immediate measuring success**
A variety of measuring parameters can be defined, saved and then called up on the workpiece in the device settings. Additionally, it works using a barcode scanner, which simply connects to the MarSurf M 310. This allows even workers without expert knowledge or training to determine reliable roughness parameters.
- 3 Robot ready: Integrate instrument directly in the production line**
The MarSurf M 310 and its interfaces can be directly integrated into your production lines, such as for measuring tasks on the robot arm. They control the measuring instrument remotely – conveniently from your computer, for example.

Status at a glance

Instrument status at a glance thanks to two easily visible status LEDs. Depending on the signal color, a measurement is underway, data is being transferred or an error has been detected. Standby mode shows the charging status.

Robust in every respect

Equipped for virtually any environment: The robust skidded probe system means that the measuring instrument is less sensitive to vibrations. The PHT probe is easy to clean due to its open skid.

Modern optics, perfect display

A high resolution, backlit 4.3" TFT display ensures precise display of your measuring results. It is operated directly via the touchscreen – just as you are used to with your smartphone.

IATF compliant

The MarConnect duplex interface enables the transmission of a measuring equipment ID with each measurement. This makes measuring results traceable at any time.



Software with a success guarantee

With this measuring instrument, you can reliably determine roughness parameters even without expert knowledge or training – due to intuitive software, clear menu structures and preprogrammed measuring functions.



35,000
MarSurf M 310 SET



6910260

Order no.	Product	Measuring range	Probe	Details	List price	Offer price
		µm			NOK	NOK
6910260	MarSurf M 310 SET	350	Skidded probe system 2 µm probe tip	Storage capacity for min. 3900 profiles, 1500 PDF protocols and 500,000 results, expandable with microSD card up to 32 GB	49.900	35.000
6910267	MarSurf M 310 SET with printer	350	Skidded probe system 2 µm probe tip	Additionally with Star Micronics SM-L200 USB/Bluetooth® printer and docking station for direct printout of profiles, ADC and MRC diagram and measurement results	54.000	39.000

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MarSurf M 410

Simple, innovative, flexible –
modern surface metrology
to be used by hand

**Including new surface standard
DIN EN ISO 21920**

Mobile recording and evaluation of measuring data has never been this easy. The MarSurf M 410 is convenient and flexible to use – just a like a modern smartphone. It has a practical touch display, an integrated PDF memory, innovative accessories, and wireless data transfer – all of which effectively simplify your workload.

Benefit from functions that only Mahr can offer you. In addition to the practical and efficient design and the flexibility this offers, the MarSurf M 410 also has an automatic filter setting by detecting the surface structure. This automatic contacting also guarantees the unmatched reliability of your measurements. The magnetic 3-point holder for the probe arm and the freely combinable accessories offer additional process security.

Possible to separate the display and probe system

Optionally, you can use the measuring instrument as a mini mobile measuring station, for example by simply attaching the display to the wall using the supplied pivoted docking station.



Advantages

- Increased efficiency thanks to large integrated memory: More than 500,000 measuring programs and 1,500 PDF reports, can be expanded by 32 GB (microSD)
- Skidless probes ensure that the roughness and waviness can be measured without an additional measuring station being required – determination of parameters R, W and P.
- Safe measuring results thanks to automated cutoff option
- Automatic zeroing ensures process and material safety
- IATF ready – simply activate/deactivate in the menu by automatically transferring the item and serial number of the measuring instrument
- Free MarCom software to transfer data



Magnetic probe holder

Probe arms can be changed quickly without tools and with additional protection: The magnetic 3-point holder ensures that the probe will not be broken in the event of a collision; it will simply be released by the magnetic holder.

Simple alignment of the probe system

The inclination is easy to correct via the menu-driven, graphic instructions.

Intuitive operation via touch display

Easy to operate just like a smartphone so that no training or introduction to the operating functions is required – you can just get started.

Creation of PDFs directly on the device

Practical: The device creates a complete PDF file without the need for additional software or transfer to a computer. Information can be added to the PDF files directly on the device.

Wireless data transmission

Connect your measuring device wirelessly to a PC, for example, and transfer your data to Microsoft Excel or other evaluation software.

Importing information using a scanner

Simply start your measuring program by scanning a QR or barcode. You do not need to enter any profile information as your saved measuring programs are linked with a corresponding code.



95,000

MarSurf M 410 SET

6910290

Order no.	Product	Measuring range µm	Probe	Details	List price NOK	Offer price NOK
6910290	MarSurf M 410 Set	500 µm (±250 µm)	with probe arm length 45 mm to 1500 µm (±750 µm) with probe arm length 135 mm	Storage capacity for min. 3900 profiles, 1500 PDF protocols and 500,000 results, expandable with microSD card up to 32 GB (increases the storage capacity by a factor of 320)	149.000	95.000
6910291	MarSurf M 410 Set (incl. printer)	500 µm (±250 µm)	with probe arm length 45 mm to 1500 µm (±750 µm) with probe arm length 135 mm	Additionally with Star Micronics SM-L200 USB/Bluetooth® printer and docking station for direct printout of profiles, ADC and MRC diagram and measurement results	152.000	99.000

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MarSurf CD 140 AG 11

Versatile with intelligent probe system

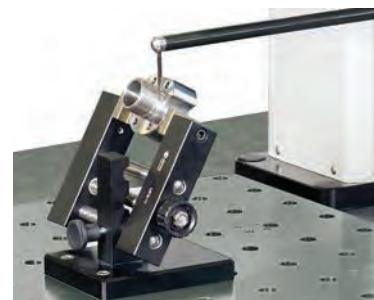
Mahr has launched a new contour measuring machine on the market – the MarSurf CD 140 AG 11. Its probe system has a measuring range of up to 70 mm and the stylus tips can be replaced quickly and without any tools – without having to recalibrate the system.

The new contour measuring machine MarSurf CD 140 AG 11 enables the user to complete fast and precise measurements. Its flexible workpiece holder makes it particularly easy to handle, while users are also convinced by its extreme versatility – it can also be used to measure roughness. The intelligent probe system and magnetic stylus tip holder ensure the process to replace stylus tips without any tools is the most straightforward process to date. Operators can also choose from a comprehensive range of clamps and workpiece holders. The new MarSurf CD 140 AG 11 can be used in a static position or directly at the location of the workpiece.



Advantages

- Comprehensive contour measurement functions – fast and simple
- Quick adjustment of the Z-axis with handles that are simple to operate
- Replacement of the stylus tip without any tools
- Travel speed in the X-axis of up to 200 mm/s
- Simple program creation or single measurement using MarWin
- Automatic evaluation, best adjustment of contours, CAD contour comparison, and a lot more
- Flexible support plate with 50 mm bore grid for KMG workpiece holder, amongst other
- Optionally expandable with option of roughness measurements ($R_z > 2 \mu\text{m}$)
- Measurement with double stylus



Plug-in guide stops and a wide range of standardized clamping devices as well as workpiece holders enable flexible positioning of your testpiece.

Unique probe system

The probe system with a probe arm length of 350 mm enables a quick change of stylus tips without any tools and without having to recalibrate. The automatic tracing force selection guarantees the correct tracing force is selected when replacing several stylus tips.

Manual quick adjustment

The fine adjustment is located in the Z-axis and moves the X-axis up and down.

X-axis with maximum measuring range

The high-speed X-axis is designed for a large measuring range of 140 mm.

Support plate also for large components

The 390 mm x 450 mm large plate with 50 mm matrix of holes is also suitable for large-volume workpieces. This provides a variety of flexible clamping options.

Ergonomic carrying handles

The handles on the side make it easy to transport the device.

Generous traverse path

The Y-axis can be adjusted manually with a traverse path of 60 mm.

290,000

MarSurf CD 140 AG 11

6269200

Order no.	Product	Measuring range	Probe	Details	Offer price
		μm			NOK
6269200	MarSurf CD 140 AG 11	70 mm	with probe arm length 350 mm	Measuring force 4 mN to 30 mN, adjustable via software, measuring speed 0.1 mm/s to 10 mm/s, positioning speed X: 0.1 mm/s to 200 mm/s	290,000
6269202	MarSurf CD 140 AG 11 (incl. option Roughness)	70 mm	with probe arm length 350 mm	Measuring force 4 mN to 30 mN, adjustable via software, measuring speed 0.1 mm/s to 10 mm/s, positioning speed X: 0.1 mm/s to 200 mm/s	330,000

Installation and training need to be offered if needed

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Compact all-rounder for surface metrology

We have added the new MarSurf SD 140 AG 11 to our portfolio of manual surface measuring instruments: it can check both roughness and contour features – in just one measuring phase. This measuring station offers easy handling and reliable quality assurance thanks to its high functionality. It is therefore also a suitable entry-level model for stationary surface metrology.

The heart of the MarSurf SD 140 AG 11 is the new tactile probe system. This can record the measurements for roughness and contour at the same time, which the software then evaluates separately. The probe arm measuring range spans 10 mm (100 mm probe arm) and 25 mm (250 mm probe arm), and the positioning speed can be set from 0.1 mm/s to 200 mm/s via software.

The probe system's tool-free probe arm quick-change function also saves time, allowing you to quickly switch to another measuring task without having to recalibrate the new probe arm. The electronic probe arm detection and automatic measuring force selection provide even more reliability. These ensure that the correct contact/measuring force is always guaranteed when switching between several stylus tips.

Support plate with hole grid

Thanks to the special support plate, you can use a wide variety of workpiece holders and clamps flexibly and quickly.

Y-axis manually adjustable

The operator can manually adjust the Y-axis using the integrated 60 mm adjustment.



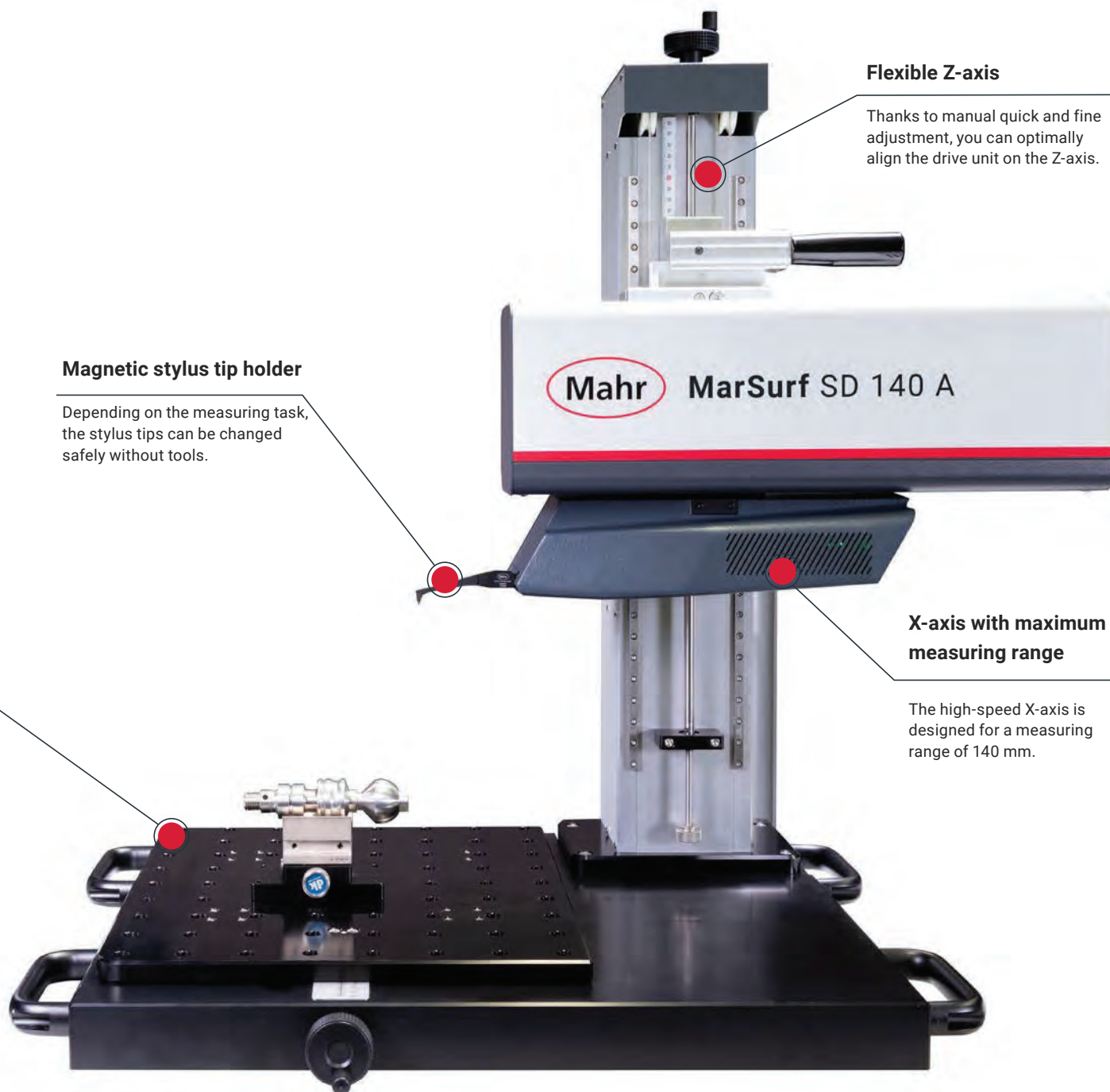
Advantages

- Measure roughness and contour in one go
- Tool-free probe arm quick-change function
- Electronic probe arm detection
- Automatic measuring force selection
- Defined start position with aligned axis
- Flexible clamping system: Support plate (390 mm x 450 mm) with 50 mm hole grid



More details can be found on our website:

**[metrology.mahr.com/
marsurf-tactile-measuring-instruments](https://metrology.mahr.com/en-int/marsurf-tactile-measuring-instruments)**



Magnetic stylus tip holder

Depending on the measuring task, the stylus tips can be changed safely without tools.

Flexible Z-axis

Thanks to manual quick and fine adjustment, you can optimally align the drive unit on the Z-axis.

X-axis with maximum measuring range

The high-speed X-axis is designed for a measuring range of 140 mm.

395,000

MarSurf SD 140 AG 11



6269300

Order no.	Product	Measuring range	Probe	Details	Offer price
		µm			NOK
6269300	MarSurf SD 140 AG 11		Roughness and contour probe system	including software, without calibration master, the positioning speed of 0.1 mm/s to 200 mm/s can be set via software	395.000

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