



Mahr® | Precision Measurement and Solutions

2nd Edition

Mahrlights



September 14th - December 31st
2020

Mobile roughness measurement - guaranteed success!

We are used to accessing our data with our smartphone anytime and anywhere. Why shouldn't this also be possible with a measuring device? With the new MarSurf M 310, Mahr offers you exactly that. A flexible mobile measuring device for recording and analysis of measured data. With its easy operation and robust design, the MarSurf M 310 is ideally suited for use in production environments by machinists generally not skilled in precision measurements.

Features

- Simple operation concept for intuitive handling without training
- Pre-programmed functionalities and automatic filter selection (auto-cutoff) during measurement - no specialist knowledge required
- Large, bright display for easy operation and maximum overview
- Transmission of measurement reports and data optionally via Bluetooth or cable
- Easy traceability of measurement results
- Optional thermal printer for printing results and profiles
- Wide range of accessories offers you maximum flexibility
- Well-protected against dirt and dust for use in almost any environment
- Integrated calibration standard is always available for checking

Status in view

The MarSurf M 310 is equipped with two clearly visible status LEDs so that you can see the device status at a glance. Depending on the signal color, you know that a measurement is in progress, data is being transmitted or there is possibly an error. In standby mode, the display also shows you the charging status of your M 310.

Robust in every aspect

Whether in incoming goods, production or outdoors, the new MarSurf M 310 is equipped for almost any environment. Due to the robust skid probe system, the mobile measuring device is also less sensitive to vibrations. The PHT probe is also easy to unify thanks to its open skid.



Modern optics, perfect display

A large, high-resolution and backlit 4.3-inch TFT display characterizes the modern appearance of the MarSurf M 310 and ensures precise presentation of your measurement results. The intuitive operation is carried out directly on the touch screen - just like your smartphone.

IATF ready

Equipped with the proven MarConnect duplex interface, the MarSurf M 310 enables the transmission of a gage ID with each measurement. This allows you to reliably document which measuring instrument was used to perform a check, thus ensuring the traceability of your measurement results.



ISO 21920 ready

The new roughness standards ISO 21920-1 through 3 take effect next year and with the M 310 you are already prepared.

6910260

Software with guaranteed success

The MarSurf M 310 is measurement technology for everyone. Even without specialist knowledge or training, you can use this measuring instrument to reliably determine roughness parameters. Easy and intuitive to use software, with clear menu structures and a wide range of pre-programmed measuring functions, the basis for guaranteed measuring success.

\$4,450

\$1,000 lower price than previous models



Sample application:
MarSurf M 310 set
with printer (order no. 6910267)

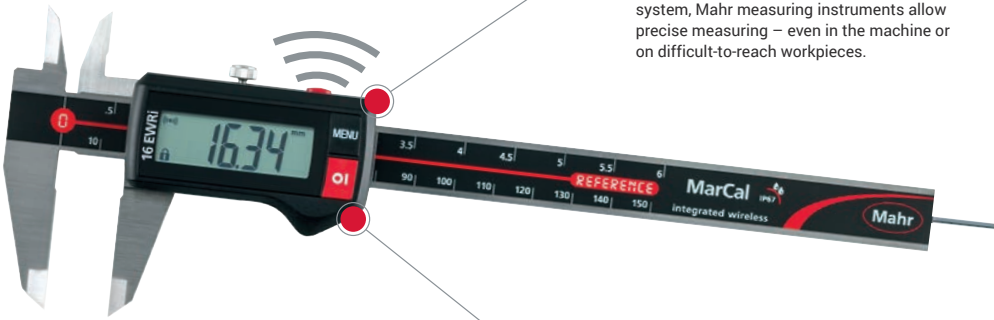
Order No.	Product	Measuring Range	Probe	Details	Price
6910260	M 310 set	350 µm	Skidded probe system 2 µm stylus tip	Memory for minimum 1500 PDF measuring records and 500,000 measuring results, expandable up to 32 GB using microSD card	\$4,450
6910265	M 310 set	350 µm	Skidded probe system 5 µm stylus tip	Memory for min. 1500 PDF measuring records and 500,000 measuring results, expandable up to 32 GB using microSD card	\$4,450
6910267	M 310 set with printer	350 µm	Skidded probe system 2 µm stylus tip	Also with USB/Bluetooth printer and docking station to directly print profiles, MRC and ADC curves and measuring results	\$4,950
6910268	M 310 set with printer	350 µm	Skidded probe system 5 µm stylus tip	Also with USB/Bluetooth printer and docking station to directly print profiles, MRC and ADC curves and measuring results	\$4,950

Best performance in every step

The key to successful production is intelligent, efficient quality control. This comes down to both the simple and precise recording of measuring values and structured data processing. Mahr's portfolio of wireless devices offers maximum, allowing faster and more specific measurements, along with full transparency. You can increase your mobility without having to compromise on the traceability of measuring steps along the entire value chain.

Full mobility

Measure autonomously and without restriction. Due to their wireless, compact system, Mahr measuring instruments allow precise measuring – even in the machine or on difficult-to-reach workpieces.



Free software

Enjoy the benefits of MarCom Professional 5.2 interface software and transfer measuring data individually and conveniently to your Windows applications or CAQ software.

Integrated transmitter

Eliminate risks such as cable breaks and wear and tear. These types of hazard are now a thing of the past with Integrated Wireless technology.



Inexpensive

Use your wireless connection for the same price as a cabled system. By purchasing a USB receiver stick (I-Stick) for your computer, you can operate up to eight measuring devices at the same time and save on the additional expense of connecting cables.

MarConnect | Digital Calipers

Integrated Wireless – conveniently transmit data



4103401



4103373

\$292

\$440

As tough as they come

with carbide-tipped outer measuring surfaces



4126751

Compact and handy

always within reach



4126755

\$385

Order No.	Product	Measuring Range	Resolution	Depth Rod	Details	List Price	Promo Price
4103401	16 EWri	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	round	IP67, with Integrated Wireless thumbwheel	\$246	\$210
4103403	16 EWri	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	square	IP67, with Integrated Wireless thumbwheel	\$246	\$210
2121610	16 EWri	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	round	Starter pack including i-Stick	\$355	\$270
2121611	16 EWri	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	square	Starter pack including i-Stick	\$355	\$270
4103373	16 EWri-H	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	round	IP67, carbide-tipped measuring surfaces and Integrated Wireless	\$520	\$440
4126755	30 EWri	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$450	\$385
4126754	30 EWri	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$500	\$425
4126756	30 EWri	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$595	\$505
4126751	30 EWri	0 - 25 mm / 0 - 1 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$344	\$292

Accessories for Measuring Instruments with Integrated Wireless

4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless	\$129	\$99
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MarCal | Digital Calipers

Digital with reference system – a reliable choice

The standard

in the workshop



4103011

\$111

\$165



4103301

The impervious

for production and workshop



4103073

\$350

As tough as they come

with carbide-tipped outer measuring surfaces

Order No.	Product	Measuring Range	Resolution	Depth Rod	Details	List Price	Promo Price
4103011	16 ER	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	round	with thumbwheel	\$130	\$111
4103013	16 ER	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	square	with thumbwheel	\$130	\$111
4103205	16 ER	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	square		\$209	\$178
4103207	16 ER	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in			\$313	\$266
4103301	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	round	IP67, with thumbwheel	\$193	\$165
4103303	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	square	IP67, with thumbwheel	\$193	\$165
4103304	16 EWR	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	square	IP67	\$265	\$225
4103306	16 EWR	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in		IP67	\$375	\$286
4103073	16 EWR-H	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	round	IP67, carbide-tipped measuring surfaces	\$441	\$350

MarConnect | Digital Calipers

The depth gage for every application



Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4126700	30 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	IP67, with data output	\$471	\$400
4126699	30 EWR	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	IP67, with data output	\$520	\$442
4126701	30 EWR	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in	IP67, with data output	\$543	\$460

MarCal | Digital Universal Calipers

Reliable and robust



Order No.	Product	Measuring Range	Resolution	Depth Rod	Wireless	List Price	Promo Price
4118807	30 EWR-V	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	Rectangular		\$625	\$575
4118907	30 EWRi-V	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	Rectangular	X	\$705	\$599

Micromar | Digital Micrometers

The choice is yours: with data output or Integrated Wireless



4157010

\$188



\$244



4157011



4157100

\$328

Micomar | Digital Micrometers

Outside micrometer sets, perfectly tailored to your needs



\$1,683

4157115



\$1,400



4157150

Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4157010	40 ER	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in		\$208	\$188
4157011	40 EWR	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65	\$271	\$244
4157012	40 EWR	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in	IP65	\$375	\$335
4157100	40 EWri	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless	\$364	\$328
4157101	40 EWri	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless	\$437	\$394
4157115	40 EWri	0 - 100 mm / 0 - 4 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, 4 micrometer screws in set	\$1,980	\$1,683
4157120	40 EWri-L	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, quick adjustment	\$450	\$405
4157121	40 EWri-L	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, quick adjustment	\$515	\$464
4157020	40 EWR-L	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	\$420	\$375
4157021	40 EWR-L	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	\$475	\$427
4157050	40 EWR-V	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	\$1,510	\$1,285
4157150	40 EWR-V	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, quick adjustment	\$1,615	\$1,400

Accessories for Measuring Instruments with Integrated Wireless

4102603	DK-U1	Bidirectional USB data cable with power supply	\$208	\$160
4102606	DK-U1	Digimatic data cable	\$180	\$144
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless	\$129	\$99

Micromar 844 A | Self-Centering Measuring Pistol

Style bore gages offer long measuring range with fixed anvils



4487762

\$2,933



▲
Self centering bore gage kit



Order No.	Product	Measuring Range	Number of Measuring Heads	Ring Gages	List Price	Promo Price
4487760	1086 R	6 mm - 12 mm / 0.25 in - 0.4725 in	3	8 mm, 10 mm	\$2,730	\$2,321
4487761	1086 R	12 mm - 20 mm / 0.4725 in - 0.775 in	2	16 mm	\$2,580	\$2,193
4487762	1086 R	20 mm - 50 mm / 0.775 in - 2.0 in	4	25 mm, 40 mm	\$3,450	\$2,933
4487763	1086 R	50 mm - 100 mm / 2 in - 4 in	4	60 mm, 85 mm	\$4,460	\$3,791

Note: Indicator is not taken into consideration, over the full length of the anvils.
With the extension 44 Av. Includes 1086 indicator.

ANSI/AGD Group 2 | Precision Dial Indicators

The standard of the industry for nearly 100 years



2014698



2011049

\$166

Order No.	Measuring Range	Graduation Value	Dial Style	Range per Revolution	List Price	Promo Price
2015781	0.025 in	0.0001 in	0-5-0	0.010 in	\$279	\$229
2011049	0.250 in	0.001 in	0-50-0	0.100 in	\$202	\$166
2014699	0.500 in	0.001 in	0-100	0.100 in	\$219	\$180
2014698	1.000 in	0.001 in	0-100	0.100 in	\$219	\$180

MarStand 820 NG / 820 FG | Indicator Stand with Granite Base

3D indicator stand which can reach any position within its operating range



4430100

\$438

Order No.	Model	Working Range	Fine Adjustment	Mounting Hole	List Price	Promo Price
4430100	820 NG	0 - 130 mm / 0 - 5.1 in		8H7	\$515	\$438
4430110	820 NG	0 - 130 mm / 0 - 5.1 in		3/8 in	\$515	\$438
4431100	820 FG	0 - 130 mm / 0 - 5.1 in	*	8H7	\$842	\$716
4431110	820 FG	0 - 130 mm / 0 - 5.1 in	*	3/8 in	\$842	\$716

Note: Indicator sold separately

MarTest® 801 SL / SGL / SGM | Test Indicators for High Accuracy Measurement

The test indicator ensures maximum precision



Order No.	Model	Measuring Range	Reading	Dial Diameter	Length of Styli	List Price	Promo Price
4305960	801 S1	±0.015 in	0.001 in	1.1 in	0.57 in	\$123	\$99
4305950	801 S	±0.015 in	0.0005 in	1.1 in	0.57 in	\$135	\$108
4307950	801 SG	±0.015 in	0.0005 in	1.5 in	0.57 in	\$148	\$119
4307970	801 SGI	±0.3 mm / 0.015 in	0.01 mm / 0.0005 in	1.5 in	0.57 in	\$129	\$104
4308970	801 SGM	±0.004 in	0.0001 in	1.5 in	0.57 in	\$168	\$135
4306950	801 SL	±0.010 in	0.0005 in	1.1 in	1.62 in	\$155	\$124
4306960	801 SGL	±0.010 in	0.0005 in	1.5 in	1.62 in	\$174	\$140
4302950	801 V	±0.015 in	0.0005 in	1.1 in	0.57 in	\$154	\$124
4302960	801 VGM	±0.004 in	0.0001 in	1.5 in	0.57 in	\$175	\$140

Millimess® | Dial Comparators

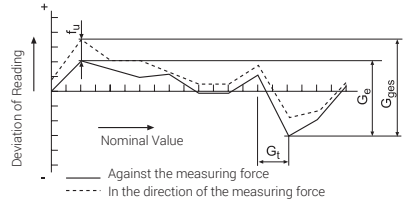
High precision and extreme robustness



▲
1003 Z

\$230

4334900



Order No.	Model	Measuring Range	Readings	Overtravel	Measuring Force	List Price	Promo Price
4335900	1002 Z	± 0.0010 in	0.00002 in	0.11 in	1 N	\$593	\$505
4335905*	1002 Z	± 0.0010 in	0.00002 in	0.11 in	1 N	\$652	\$555
4334900	1003 Z	± 0.0020 in	0.00005 in	0.11 in	1 N	\$270	\$230
4334905*	1003 Z	± 0.0020 in	0.00005 in	0.11 in	1 N	\$386	\$329
4333900	1004 Z	± 0.0050 in	0.0001 in	0.10 in	1 N	\$261	\$222
4333905*	1004 Z	± 0.0050 in	0.0001 in	0.10 in	1 N	\$386	\$329
4332900	1010 Z	± 0.0100 in	0.0005 in	0.10 in	1 N	\$252	\$215
4332905*	1010 Z	± 0.0100 in	0.0005 in	0.10 in	1 N	\$292	\$249

Note: * Waterproof

Including plastic case; adapter 940 (for inch instruments only)

IP54, including plastic case, splash guard cover 957, rubber bellows (only for 1002/1003/1004); adapter 940 (for inch instruments only)

MarStand 815 MG | Indicator Stand with Magnetic Base

Can reach any position within its operating range

\$201



4420350

Order No.	Fine Adjustment Range	Total Height	Projection (Max.)	Magnetic Force	List Price	Promo Price
4420350	2 mm / 0.078 in	224 mm / 8.818 in	130 mm / 5.118 in	300 N	\$236	\$201
4420360	2 mm / 0.078 in	316 mm / 12.440 in	200 mm / 7.784 in	800 N	\$264	\$225
4420370	2 mm / 0.078 in	401 mm / 15.787 in	280 mm / 9.8425 in	800 N	\$320	\$272
4420380	5 mm / 0.19 in	444 mm / 17.480 in	330 mm / 12.992 in	1000 N	\$601	\$511

Note: Indicator sold separately

Marcator | Digital Dial Indicators

Practical functions, easy to operate



A black circular digital dial indicator with a silver stem. The display shows '0.00'. The model name 'MarCator 1075 R' is printed above the display. Below the display are three buttons: 'PR', 'mm/inch', and 'OI'. A red arrow points to a price tag of \$160.

\$160

4336010

Icons: Bluetooth, Digimatic, RS232C



A black circular digital dial indicator with a black stem. The display shows '0.0000'. The model name 'MarCator 1085 R' is printed below the display. Above the display are three buttons: 'TOL', 'ZERO', and 'ON/OFF'. Below the display are three buttons: 'PRESET', 'DATA', and 'RESET'. A red arrow points to a price tag of \$544.

\$544

4337697

Icons: HR, Bluetooth, Digimatic, RS232C



A black circular digital dial indicator with a black stem. The display shows '0.0000'. The model name 'MarCator 1066 R' is printed below the display. Above the display are three buttons: 'TOL', 'ZERO', and 'ON/OFF'. Below the display are three buttons: 'PRESET', 'DATA', and 'RESET'. A red arrow points to a price tag of \$413.

\$413

4337624

Icons: Bluetooth, Bluetooth, Digimatic, RS232C



A black circular digital dial indicator with a black stem. The display shows '0.0000'. The model name 'MarCator 1056 R' is printed below the display. Above the display are three buttons: 'TOL', 'ZERO', and 'ON/OFF'. Below the display are three buttons: 'PRESET', 'DATA', and 'RESET'. A red arrow points to a price tag of \$362.

\$362

4337620

Icons: Bluetooth, Digimatic, RS232C

Marcator | Digital Dial Indicators

Practical functions, easy to operate

\$497



4337663



\$672



4337695



Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4336010	1075 R	12.5 mm / 0.5 in	0.01 mm / 0.0005 in	LOCK function	\$199	\$160
4336020	1075 R	12.5 mm / 0.5 in	0.005 mm / 0.0001 in	LOCK function	\$249	\$199
4336030	1075 R	12.5 mm / 0.5 in	0.001 mm / 0.00005 in	LOCK function	\$344	\$275
4337620	1086 R	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, Tol function	\$425	\$362
4337621	1086 R	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, Tol function	\$515	\$438
4337697	1086 R-HR	12.5 mm / 0.5 in	0.0001 mm / 0.000010 in	ABS, LOCK, TOL function, high resolution	\$640	\$544
4337660	1087 R	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min	\$525	\$447
4337661	1087 R	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min	\$610	\$519
4337695	1087 R-HR	12.5 mm / 0.5 in	0.0001 mm / 0.000010 in	ABS, LOCK, TOL function, high resolution	\$790	\$672
4337624	1086 Ri	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Integrated Wireless	\$485	\$413
4337625	1086 Ri	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Integrated Wireless	\$575	\$510
4337663	1087 Ri	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min, Integrated Wireless	\$585	\$497
4337665	1087 Ri	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min, Integrated Wireless	\$650	\$553

Accessories for Measuring Instruments with Integrated Wireless and Data Cable Connection						
4102603	DK-U1	Bidirectional USB data cable with power supply			\$208	\$160
4102606	DK-D1	Digimatic data cable			\$180	\$144
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless			\$129	\$99

Digimar® | Height Measuring Instruments

Maximum flexibility and quality

Digimar 816 CL

- Perfect for accurate measurements in production and the workshop



\$5,240

4429031

Digimar 817 CLM

- Quick Mode feature allows for rapid measurements with maximum accuracy even in 2D mode



\$7,500

4429011

Digimar | Height Measuring Instruments

Robust and versatile, ideal for the workshop

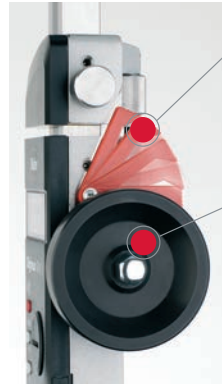
Digimar 814 CR

● Height measuring and scribing instrument



\$590

4426100



Clamping lever

for quickly securing the slide unit

Handwheel

for easy positioning and measuring

Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4429030	816 CL	0 - 350 mm / 0 - 14 in	0.01 mm, 0.001 mm / 0.0001 in, 0.00005 in	Error limit (2.8 + L/300) L in mm	\$6,100	\$4,880
4429031	816 CL	0 - 600 mm / 0 - 24 in	0.01 mm, 0.001 mm / 0.0001 in, 0.00005 in	Error limit (2.8 + L/300) L in mm	\$6,550	\$5,240
4429010	817 CLM	0 - 350 mm / 0 - 14 in	0.01 mm, 0.005 mm, 0.001 mm, 0.0005 mm, 0.0001 mm / 0.001 in, 0.0005 in, 0.0001 in, 0.0005 in, 0.00001 in	Error limit (1.8 + L/600) L in mm	\$8,570	\$6,856
4429011	817 CLM	0 - 600 mm / 0 - 24 in	0.01 mm, 0.005 mm, 0.001 mm, 0.0005 mm, 0.0001 mm / 0.001 in, 0.0005 in, 0.0001 in, 0.0005 in, 0.00001 in	Error limit (1.8 + L/600) L in mm	\$9,120	\$7,500
4429012	817 CLM	0 - 1000 mm / 0 - 40 in	0.01 mm, 0.005 mm, 0.001 mm, 0.0005 mm, 0.0001 mm / 0.001 in, 0.0005 in, 0.0001 in, 0.0005 in, 0.00001 in	Error limit (1.8 + L/600) L in mm	\$16,250	\$13,000
4426100	814 SR	0 - 350 mm / 0 - 14 in	0.01 mm / 0.0005 in	Digit height 12 mm, handwheel for positioning and measuring	\$725	\$590
4426101	814 SR	0 - 600 mm / 0 - 24 in	0.01 mm / 0.0005 in	Digit height 12 mm, handwheel for positioning and measuring	\$1,100	\$890



\$1,318

5312010

\$354



5323010

\$912



5313180

Order No.	Product	Numerical Display	Resolution	Details	List Price	Promo Price
5312010	Millimar C 1200	± 5000 μm	0.1 μm	High resolution, high contrast TFT color display	\$1,550	\$1,318

Order No.	Product	Measuring Range	Measuring Force	Details	List Price	Promo Price
5323010	P 2004 M	± 2 mm	0.75 N	Measuring pin mounted in ball-bearing guide	\$443	\$354
5313180	1318	- 0.3 ... 1	0.25 +/- 0.05	Dial test indicator inductive probe	\$1,140	\$912



Mahr | MarSurf PS 10

Measuring data to go for your quality assurance

We're used to being able to access our data anytime and anywhere on our smartphones. Why shouldn't we be able to do it with our measuring instruments too? The MarSurf PS 10 is a flexible and portable roughness measuring instrument which allows you to record measurements and open the measuring data on the device. Its compact design makes the PS 10 your ideal companion for measuring tasks on the go. Whether horizontal, vertical or upside down – benefit from simple handling, even in small spaces. The data is backed up immediately by saving measuring records automatically as a PDF. This means you can have both your measuring instrument and measurement evaluation at hand at all times – simple as that!

Product Highlights:

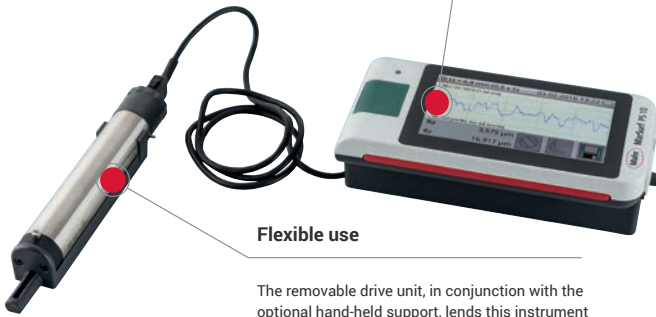
- Intuitive operation of the 4.3" touch display
- Measuring principle: stylus method for roughness measurement
- Save 500,000 measuring results internally
- Lightweight: just 500 g
- Memory can be expanded to 32 GB
- Automatic cutoff selection

Simple and intuitive to use for more measuring convenience

Mahr's entry-level surface metrology instrument is intuitive and simple to use. The 4.3" TFT touch display can be turned in any direction. The removable drive unit makes the MarSurf PS 10 flexible in production and manufacturing. It features an integrated but removable calibration standard. Measuring records can be saved in the instrument itself as PDF files. Alternatively, they can be transferred using MarCom Software.

Extremely easy to operate with detailed profile display

The large 4.3" high-resolution and backlit TFT touch display allows intuitive operation (just like a smartphone) and precise representation of the measuring profile.



Flexible use

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



Easily accessible evaluation and documentation

The PS 10 automatically creates a PDF measuring record without the need for any additional software. The measuring record can be easily transferred to a PC via the USB port. Alternatively, measuring data can be evaluated in the MarSurf XR 1 and XR 20 roughness software or the measurements can be sent to Excel or SPC programs using the MarCom software.

Always at hand

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



\$2,350



6910230

\$8,480



6910404



Order No.	Product	Measuring Range	Probe	Details	List Price	Promo Price
6910230	PS 10	350 μm	Skidded probe system	Minimum 3900 profiles, min. 500,000 results, minimum 1500 PDF measuring records, expandable to 32 GB with microSD card	\$2,920	\$2,350
6910404	M 400	+/- 250 μm (up to +/-750 μm with 3x probe arm length)	Skidless probe system	Over 50 surface parameters for R-, P- and W-profiles according to current ISO/JIS or MOTIF standards (ISO 12085)	\$10,600	\$8,480

Compact – convenient – cost-effective

for added measuring convenience

The entry-level device for convenient surface metrology at the right price. This PC-based instrument provides all the usual parameters and profiles specified in international standards and can be used in both the measuring room and the production environment. MarSurf XR 1 is Mahr's advanced roughness evaluation software.

\$19,500



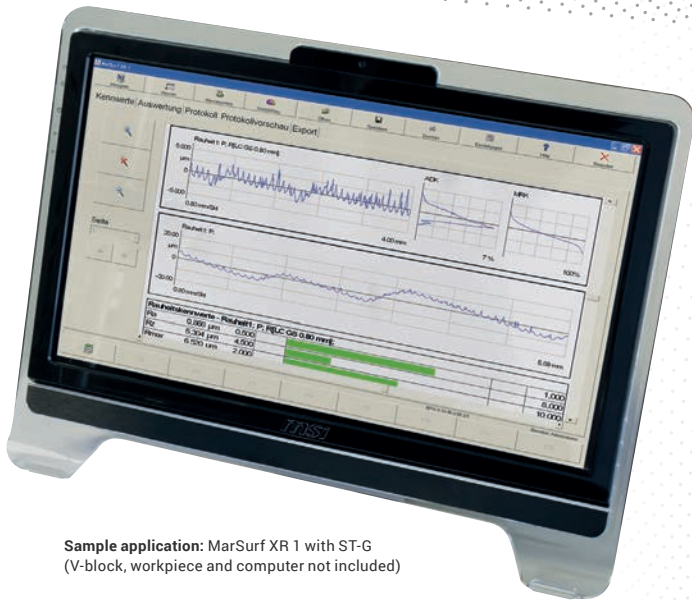
9056373

Product Highlights:

- Bluetooth technology connects the evaluation and drive units
- Range up to 4 m
- Automatic selection of filters and traversing length conforming to standards
- ARC function and polynomial filter for form elimination
- Save measuring programs
- Direct data transfer from drive unit to evaluation instrument
- Display calibration and maintenance dates, dynamic calibration function

Advantages of MarSurf SD 26 drive unit:

- Motorized probe zero setting over 7.5 mm
- Use skidless probe BFW 250
- Can measure measuring lengths up to 26 mm
- Minimal Rz residual noise
- Measuring speeds 0.2 mm/s; 0.5 mm/s and 1.0 mm/s



Sample application: MarSurf XR 1 with ST-G
(V-block, workpiece and computer not included)

Order No.	Product	Details	Promo Price
9056373	MarSurf XR 1	Set with ST-G measuring stand, SD 26 drive adapter and MarWin EasyRoughness Software	\$19,500
Optional Accessories			
2299904	Training	1 day commissioning with basic user training	\$3,000

The basic measuring station

for simple and highly accurate measuring

- By combining the measurement and evaluation system with the MarSurf CD 120 drive unit, you can perform contour measurements in a measuring field of up to 120 mm long and 50 mm high
- Patented probe arm holder and easy switching of probe arms for specific applications
- Collision guard
- Adjustable measuring force from 2 mN to 120 mN
- Operation and positioning is controlled via the software in a special measuring station view
- Programmed measuring routine
- Easy to operate



Product Highlights:

- The MarSurf CD 120 drive unit is a high-precision long-distance contour drive unit for the accurate calculation of radii, distances, angles and other contour elements
- MarSurf XC basic including control unit, EasyContour software with XC2 software functionality and operating instructions
- Manual measuring stand consisting of 800 x 330 mm aluminum baseplate with 400 mm manual height adjustment
- Holds the drive unit
- Standard calibration sphere
- CT120 XY-table with angle adjustment

Advantages of MarSurf XC basic:

- This computer-assisted measuring station allows for comprehensive and fast evaluation of measuring results
- The small, handy measuring station can be used on the go, saving space and adding flexibility
- The creation of detailed measuring records increases the transparency of your measuring results and process sequences

\$24,500



2152803

Sample application: MarSurf XC basic
(price includes all-in-one computer)

Order No.	Product	Details	Promo Price
2152803	MarSurf XC basic	MarSurf XC basic including control unit, contour software, CT120 and operating instructions	\$24,500

Optional Accessories

2299904	Training	1 day commissioning with basic user training	\$3,000
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Precimar® | Dial Indicator Test Instrument

Efficiently test indicating measuring equipment

Fast and reliable results

This compact desktop instrument is designed for easy operation and fast test procedures. It also considerably increases efficiency due to automatic measuring.

Furthermore, the innovative, ergonomic design ensures that every move is spot on.

- Over 60% time savings
- Easy handling, no tools required
- Versatile for a multitude of measuring devices
- Intuitive, software-assisted operation
- Supports a wide range of standards

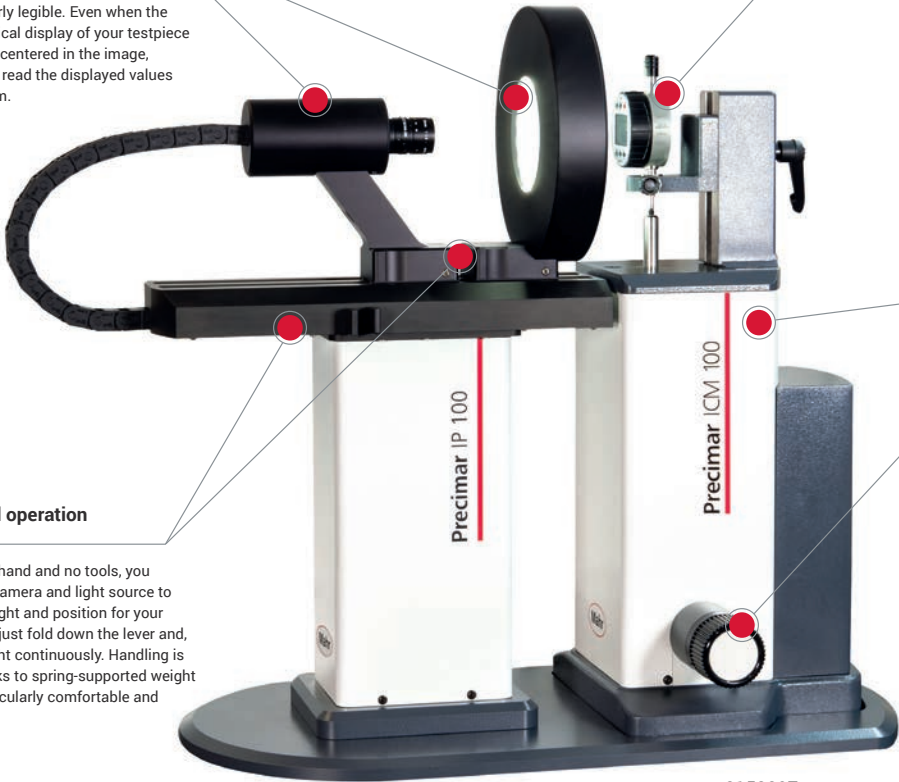
Fast and reliable data collection

The powerful USB 3.0 camera and sturdy LED lighting guarantee that all display values are clearly legible. Even when the scale or numerical display of your testpiece are not exactly centered in the image, the system will read the displayed values without problem.

\$34,900

One-handed operation

Using just one hand and no tools, you can move the camera and light source to the optimal height and position for your measurement: just fold down the lever and, adjust the height continuously. Handling is easy and, thanks to spring-supported weight reduction, particularly comfortable and ergonomic.

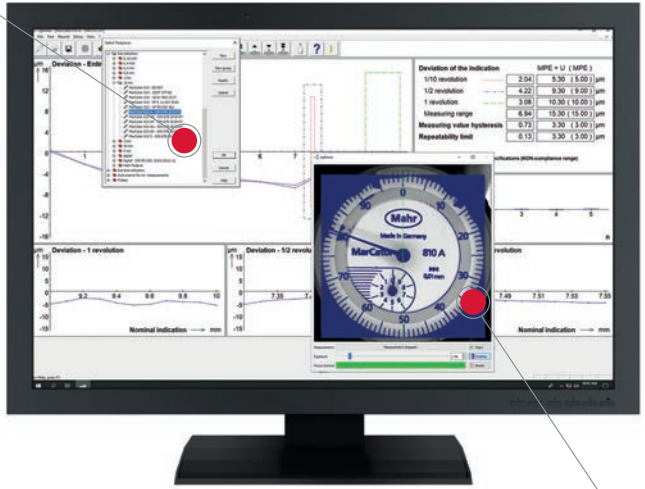


2152807

(price includes computer)

Programmed for versatility

Over 266 measuring instruments are pre-programmed in Mahr's own operating software. Simply select which measuring instrument you would like to check during setup. You will save time and can be confident that your testpiece is correctly created in the system. You can even continue to use existing, individually created testpiece data sets.



Setup made easy

Good to go in a matter of minutes – thanks to software support with live visualization. At a glance, you can see whether the camera is focused and the lighting is sufficient. Visual feedback in real time ensures that every movement is spot on.

Universal and reliable

This versatile solution can be used for checking analog and digital dial indicators as well as dial comparators by a wide range of manufacturers. It provides traceable measuring results conforming to standards in a measuring range of up to 100 mm.

Manual mode

You can check your testpieces manually with easy handwheel operation. In manual mode, the camera serves as a magnifying glass. Thanks to the enlarged live image, you can read the display values more easily, thus making manual work faster and more reliable.

Order No.	Product	Measuring Range	Digital Resolution	Details	Promo Price
2152807	Precimar ICM 100 IP	100 mm / 4 in	0.02 µm / 1 µin	Incremental measuring system, USB 3.0 CMOS camera Price includes PC and commission	\$34,900

Upgrade Kit Accessories					
5351050	For Precimar Optimar 100 (5320005)			Price excludes commissioning	on request
5351060	For Precimar ICM 100 (5351000)			Price excludes commissioning	on request
5351070	For Precimar ICM 100 (5351005)			Price excludes commissioning	on request

MarForm® | Form Measuring Machine

Compact design for use on work bench or in measuring room

The **perfect solution** with **EasyForm**

- Accurate and fast measuring results
- Reliable due to mechanical bearings
- Portable due to light weight and compact dimensions
- Fast computer-assisted workpiece alignment
- Digital encoder in Z and X sends the measuring position directly to the software
- Suitable for use in workshops, no compressed air connection required
- No keyboard or mouse required with optional touchscreen



Optimized for the most frequent form measuring tasks

2185912

- Roundness (including in one section)
- Flatness (from a circle trace)
- Concentricity
- Coaxiality
- Radial runout
- Axial runout
- Plane parallelism from opposite circles
- Straightness of a calculated axis
- Fourier/waviness analysis included with EasyForm as standard
- Option: vibration velocity analysis for roller bearings
- Option: bar-to-bar height evaluation for commutators

\$13,900

The **automatic form measuring station** optimized for high-precision cylindricity testing

Fully automated measuring sequences

Due to automatic C-, Z- and X-axes, measuring sequences can be performed automatically and independently of the user with maximum repeatability.

\$26,500



Simple and intuitive data collection

The MarWin-based EasyForm Software is easy to use and intuitive to learn. No experience of programming is required. In just a few steps you will have a detailed measuring record. User measuring programs can be started via 32 function keys on the EasyForm user interface or via the 3 assignable program keys on the MMQ 150 control panel.

Order No.	Product	Details	Promo Price
2185912	MarForm MMQ 100	MarForm MMQ 100 includes MarWin 12 EasyForm Software package, all-in-one computer	\$13,900
2185936	MarForm MMQ 150	MarForm MMQ 150 includes T20W measuring probe and all-in-one computer	\$26,500
5480281	MarWin 12 EasyForm	Software package	Included
2185767	Scroll chuck	Scroll chuck Ø 100 mm with flange	\$1,210

Optional Accessories			
Commissioning of MarForm MMQ 100 by a skilled service technician			\$3,000
Commissioning of MarForm MMQ 150 by a skilled service technician			\$3,000

Precimar | Length Measuring Bench

Robust construction makes it suitable for production-related use



Sample application:
Precimar SM 60 shown with MarCator 1086 R

Order No.	Product	Measuring Range	Application Range	Details	List Price	Promo Price
5357360	SM 60	0 - 25 mm / 0 - 1 in	0 - 60 mm / 0 - 2.36 in	Size of table \varnothing 60 mm, mass 9 kg	\$2,830	\$2,264



MarCator 1086 Ri

Order number: 433761



MarCator 1087 Ri

Order number: 4337661



MarCator 1086 R-HR

Order number: 4337698



Millimar C 1200

Order number: 4337661



Millimar P 2004 M

Order number: 5353010

Further accessories

An overview of the complete range of accessories can be found in the **Mahr Catalog**.

Order No.	Product	Measuring Range	Resolution	List Price	Promo Price
4337621	MarCator 1086 R	25 mm / 1 in	0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	\$515	\$438
4337625	MarCator 1086 Ri	25 mm / 1 in	0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	\$575	\$510
4337661	MarCator 1087 R	25 mm / 1 in	0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	\$610	\$519
4337665	MarCator 1087 Ri	25 mm / 1 in	0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	\$650	\$552
4337698	MarCator 1086 R-HR	25 mm / 1 in	0.0001 mm, 0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.00001 in, 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	\$700	\$595
4337696	MarCator 1087 R-HR	25 mm / 1 in	0.0001 mm, 0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.00001 in, 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	\$853	\$725
5312010	Millimar C 1200	-±5.0000 mm / ±0.194 in	10 µm, 1 µm, 0.1 µm / 100 µmin, 10 µin, 5 µin	\$1,550	\$1,318
5323010	Millimar P 2004 M	± 2 mm / 0.080 ± in	-	\$443	\$354



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