Mahr

Edition
2024

Spring Sale

Mobile roughness measurement with our MarSurf M 310

- Intuitive and easy-to-operate like a smartphone

- Measuring program start via barcode scanner provides easy operation and fast success for results

- Simple digital connection to QM systems

Special offer prices
April 1 - May 31, 2024

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.

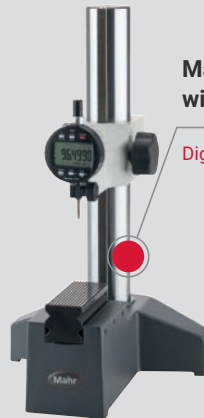## 3
Product groups

85
Products
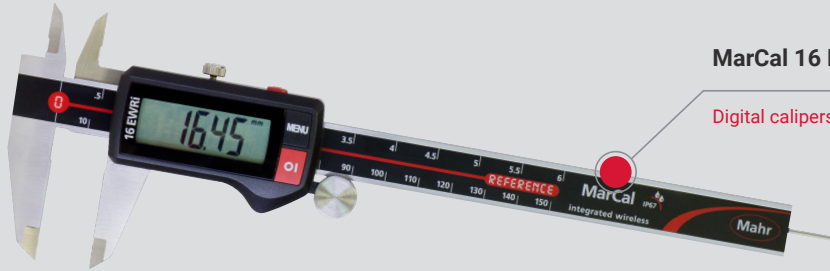
MarCal 16 EWRi

Digital calipers

Micromar 40 EWRi

Digital micrometer

MarCator 1087 Ri

Digital indicator

**MarCator 1086 Ri
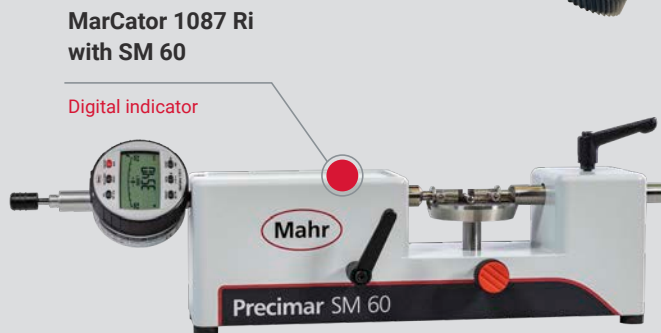with stand**

Digital indicator

**MarCator 1086 Ri
with 3-point pistol**

Digital indicator

Millimess 2001 Wi

Digital comparator

**MarCator 1087 Ri
with SM 60**

Digital indicator

MarCal 16 EWRi / 18 EWRi
Digital calipers with wireless interface

$240
MarCal 16 EWRi

4103401

4102220

Transfer measuring data conveniently

4112571

$965
MarCal 18 EWRi

When things start to get bigger

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	$303	$240
4103403	16 EWRi	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	IP67, with Integrated Wireless thumbwheel	$303	$240
2121610	16 EWRi	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Round	Starter pack including i-Stick	$435	$300
2121611	16 EWRi	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	Starter pack including i-Stick	$435	$300
4112571	18 EWRi	0 - 300 / 0 - 12 in	0.01 mm / 0.0005 in		With measuring blades	$984	$965
4112572	18 EWRi	0 - 500 mm / 0 - 20 in	0.01 mm / 0.0005 in		With measuring blades	$1,280	$1,250
Accessories for Measuring Instruments with Integrated Wireless							
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless				$116	$90

Micromar 40 EWRi
Micrometers that embody the pursuit of perfection

| TOL | 🔒 | ABS | #ID | (((•))) | IP 65 | REF system |

$380
Micromar 40 EWRi

4157100

| TOL | 🔒 | ABS | #ID | (((•))) | IP 65 | REF system |

$530
Micromar 40 EWRi-L

4157120

$1,890
Micromar 40 EWRi-V SET

| TOL | 🔒 | ABS |
| #ID | (((•))) | IP 65 | REF system |

4157150
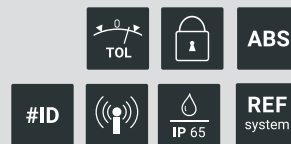
Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4157100	40 EWRi	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless	$447	$380
4157101	40 EWRi	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless	$536	$450
4157115	40 EWRi	0 - 100 mm / 0 - 4 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, 4 micrometer screws in set	$2,440	$2,070
4157120	40 EWRi-L	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, quick adjustment	$552	$530
4157150	40 EWRi-V	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, quick adjustment	$1,990	$1,890
Accessories for measuring instruments with Integrated Wireless and data cable connection						
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless			$116	$90

MarCator 1086 Ri / 1087 Ri
Perfectly suited to your measuring tasks

$**575**
MarCator 1087 Ri

4337663

$**475**
MarCator 1086 Ri

4337624

Millimess | Inductive comparators

Millimess 2000 Wi / 2001 Wi

$**980**
Millimess 2000 Wi

4346701

$**1,020**
Millimess 2001 Wi

4346801

Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4337624	1086 Ri	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Integrated Wireless	$595	$475
4337625	1086 Ri	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Integrated Wireless	$704	$670
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	$717	$575
4337665	1087 Ri	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min, Integrated Wireless	$795	$755
4346701	2000 Wi	± 1 mm / ± 0.040 in	0.0001 mm / 0.000005 in	Wireless	$1,030	$980
4346801	2001 Wi	± 1 mm / ± 0.040 in	0.0001 mm / 0.000005 in	Analog scale, Max/Min/TIR, wireless	$1,170	$1,020
Accessories for measuring instruments with Integrated Wireless and data cable connection						
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless			$116	$90

Spring Sale

MarCal 16 ER / 16 EWR
Digital calipers without data output

The standard

in the workshop

4103011

REF system

$**145**
MarCal 16 ER

$**200**
MarCal 16 EWR

The robust caliper

for production and the workshop

4103301

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	$161	$145
4103013	16 ER	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	With thumbwheel	$161	$145
4103206	16 ER	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	Square	With thumbwheel	$253	$230
4103301	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Round	IP67, with thumbwheel	$230	$200
4103303	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	IP67, with thumbwheel	$230	$200
4103305	16 EWR	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	Square	IP67, with thumbwheel	$328	$310

MarCal 30 EWR
Digital depth gages

$**380**
MarCal 30 EWR

4126700

IP 67 RS232C Digimatic

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	IP65, with data output	$525	$420
4126699	30 EWR	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	IP65, with data output	$579	$463
4126701	30 EWR	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in	IP65, with data output	$606	$485

Micromar 40 EWR / 40 EWR-V

The robust ones for production and the workshop

| 🔒 | ABS | 💧 IP 65 | REF system |

4157012

$415
Micromar 40 EWR

| TOL | 🔒 | ABS | Digimatic |
| #ID | | 💧 IP 65 | REF system |

4157050

$1,780
Micromar 40 EWR-V

Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4157011	40 EWR	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65	$334	$300
4157012	40 EWR	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in	IP65	$460	$415
4157050	40 EWR-V	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	$1,870	$1,780

Micromar 44 EWR / 844 AS
Digital 3-point internal measuring devices – precision is guaranteed

$3,900
Micromar 44 EWR/SET

4191162

$3,900
Micromar 844 AS/SET

4487762

Measure bores

in one movement

Order No.	Product	Measuring Range	Number of Measuring Heads	Ring Gages	List Price	Promo Price
4191160	44 EWR/SET	6 - 12 mm / 0.25 - 0.4725 in	3	8 mm,10 mm	$3,190	$2,870
4191161	44 EWR/SET	12 - 20 mm / 0.4725 - 0.775 in	2	16 mm	$2,940	$2650
4191162	44 EWR/SET	20 - 50 mm / 0.775 - 2.0 in	4	25 mm, 40 mm	$4,330	$3,900
4191163	44 EWR/SET	50 - 100 mm / 2 - 4 in	4	60 mm, 85 mm	$5,170	$4,650

Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4487760	844 AS/SET	6 - 12 mm / 0.25 - 0.4725 in	0.001 mm / 0.0005 in	Including digital indicator 1086 R and setting rings 8 mm, 10 mm	$3,360	$3,025
4487761	844 AS/SET	12 - 20 mm / 0.4725 - 0.775 in	0.001 mm / 0.0005 in	Including digital indicator 1086 R and setting rings 16 mm	$3,170	$2,850
4487762	844 AS/SET	20 - 50 mm / 0.775 - 2.0 in	0.001 mm / 0.0005 in	Including digital indicator 1086 R and setting rings 25 mm, 40 mm	$4,240	$3,815
4487763	844 AS/SET	50 - 100 mm / 2 - 4 in	0.001 mm / 0.0005 in	Including digital indicator 1086 R and setting rings 60 mm, 85 mm	$5,470	$4,930

MarTest 800 S / 800 SG / 800 SM
Dial test indicator measuring devices with scale display

$120
MarTest 800 S

4305200
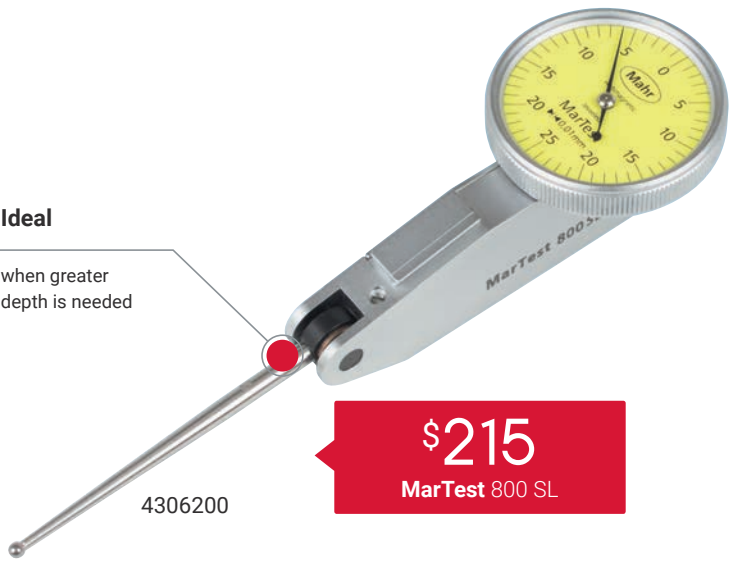
Ideal

for confined spaces

$190
MarTest 800 SGM

4308200

Ideal

when absolute
precision is vital

Ideal

when greater
depth is needed

$215
MarTest 800 SL

4306200

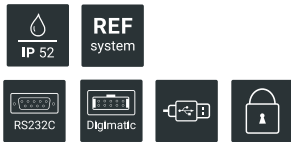| Order No.	Product	Measuring Range	Graduation Value	Details	List Price	Promo Price
4305200	800 S	± 0.4 mm	0.01 mm	Dial ø 28 mm, measuring insert length 14.5 mm	$136	$120
4307200	800 SG	± 0.4 mm	0.01 mm	Dial ø 38 mm, measuring insert length 14.5 mm	$142	$135
4308150	800 SM	± 0.1 mm	0.002 mm	Dial ø 28 mm, measuring insert length 14.5 mm	$212	$200
4308200	800 SGM	± 0.1 mm	0.002 mm	Dial ø 38 mm, measuring insert length 14.5 mm	$200	$190
4306200	800 SL	± 0.25 mm	0.01 mm	Dial ø 28 mm, measuring insert length 41.24 mm	$225	$215
4305960	801 S1	± 0.015 in	0.0005 in	Dial ø 38 mm, measuring insert length 14.5 mm	$153	$145
4307950	801 SG	± 0.015 in	0.0005 in	Dial ø 28 mm, measuring insert length 41.24 mm	$183	$175
4307970	801 SGI	± 0.010 in	0.0005 in	Dial ø 38 mm, measuring insert length 14.5 mm	$160	$150
4305950	801 SL	± 0.010 in	0.0005 in	Dial ø 28 mm, measuring insert length 41.24 mm	$167	$160
4308970	801 SGM	± 0.004 in	0.0001 in	Dial ø 38 mm, measuring insert length 14.5 mm	$207	$195

MarCator 1075 R / 1086 R / 1087 R
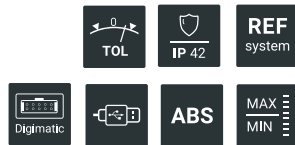## Perfectly suited to your measuring tasks

$210
MarCator 1075 R

IP 52 | REF system
RS232C | Digimatic

4336010

$705
MarCator 1087 R

TOL | IP 42 | REF system
Digimatic | | ABS | MAX MIN

4337660

$470
MarCator 1086 R

RS232C | Digimatic | ABS | TOL
| | IP 42 | REF system

4337620

MarCator 1086 R-HR / 1087 R-HR
Highest precision with a large measuring range

$705
MarCator 1086 R-HR

HR RS232C Digimatic
ABS **TOL** IP 42 **REF** system

4337697

$870
MarCator 1087 R-HR

HR Digimatic **ABS**
MAX MIN **TOL** IP 42 **REF** system

4337695
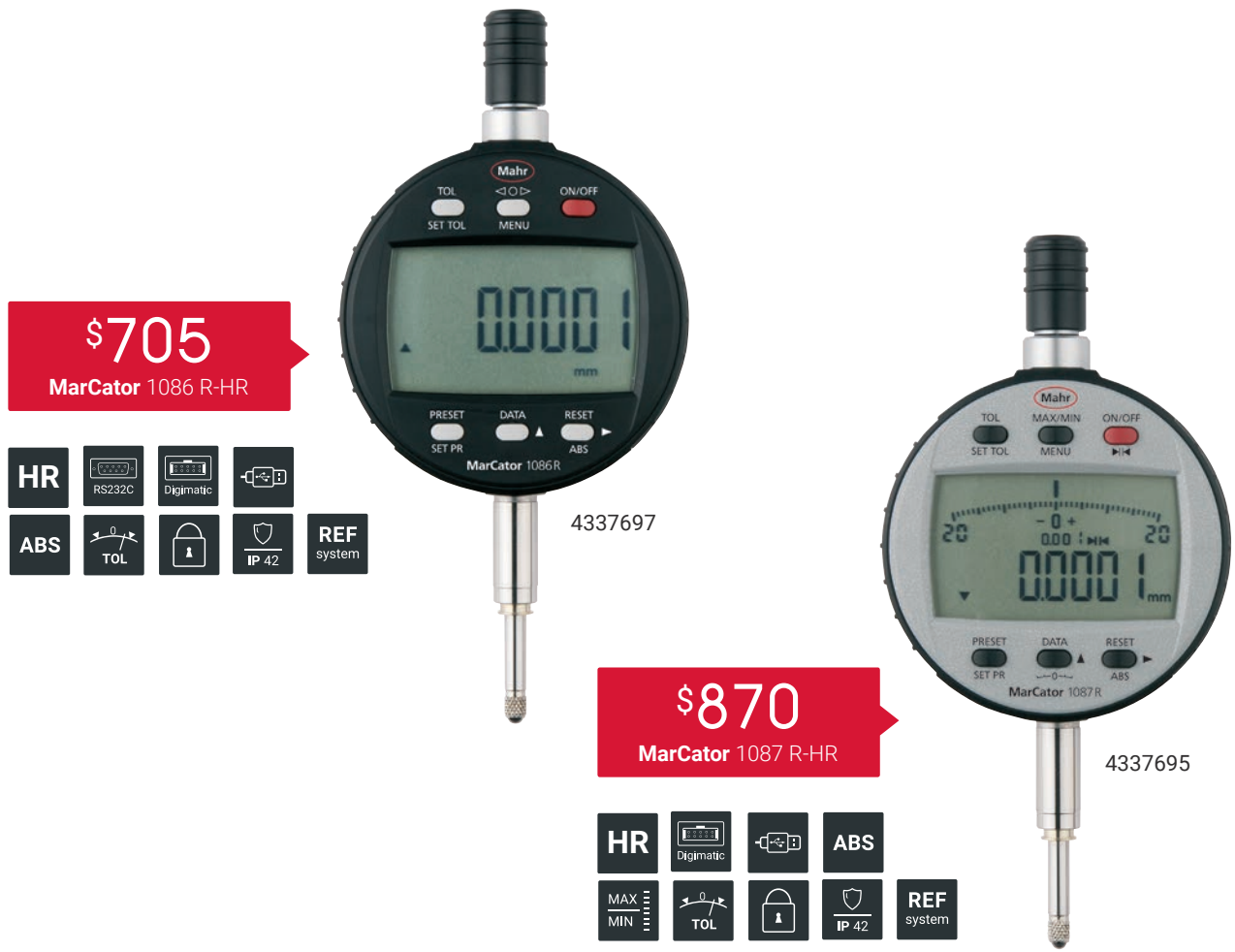
Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4336010	1075 R	12.5 mm / 0.5 in	0.01 mm / 0.0005 in	LOCK function	$245	$220
4336020	1075 R	12.5 mm / 0.5 in	0.005 mm / 0.0001 in	LOCK function	$306	$280
4336030	1075 R	12.5 mm / 0.5 in	0.001 mm / 0.00005 in	LOCK function	$423	$380
4337130	1086 R	12.5 mm / 0.5 in	0.01 mm / 0.0005 in	ABS, LOCK, Tol function	$475	$430
4337620	1086 R	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, Tol function	$521	$470
4337621	1086 R	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, Tol function	$631	$570
4337650	1086 ZR	12.5 mm / 0.5 in	0.001 mm / 0.00005 in	0.375 in stem mount	$521	$470
4337651	1086 ZR	25 mm / 1 in	0.0005 mm / 0.000020 in	0.375 in stem mount	$631	$570
4337660	1087 R	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min	$644	$580
4337661	1087 R	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min	$747	$670
4337670	1087 ZR	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	0.375 in stem mount	$644	$610
4337671	1087 ZR	25 mm / 1 in	0.0005 mm / 0.000020 in	0.375 in stem mount	$747	$715
4337697	1086 R-HR	12.5 mm / 0.5 in	0.0001 mm / 0.000010 in	ABS, LOCK, TOL function, high resolution	$783	$705
4337695	1087 R-HR	12.5 mm / 0.5 in	0.0001 mm / 0.000010 in	ABS, LOCK, TOL function, high resolution	$966	$870

Highest level of precision

MarCom

Can be configured and controlled remotely using MarCom Professional Software

Integrated Wireless
- Integrated Wireless interface
- Sending and receiving measuring data and various parameters

Lock individual keys and functions
Remote-controlled settings can be configured easily using MarCom Professional Software

First digital comparator indicator with touch operation

Extensive advantages:
- Keys react even with the slightest touch
- This prevents a measuring device from being adjusted or disturbed – **maximum measuring certainty**

Hardened glass front

- Scratch and impact-resistant surface
- Excellent protection against scratches and penetrating liquids
- Wear-free keys react to the slightest touch

High-precision ball-bearing guide

Maximum sensitivity of the measuring system, long service life, and high loading capacity

IP 54

Protection rating IP 64

Excellent protection against dust and splash water from all directions ensures optimum workshop compatibility at all times

Bidirectional data interface via USB
- Sending and receiving measuring data and various parameters
- Permanent power supply via data cable
- Possible to retrieve the device ID

#ID

Data interface via Digimatic
- To send measuring data

Digimatic

Convenient tolerance functions

- Clear tolerance symbols
- Colorful LED signals (red, green, yellow) to classify the measuring values
  • No go/Go/warning limit
  • No go/Go/rework

High precision inductive measuring system

Lowest measuring deviations due to linearization
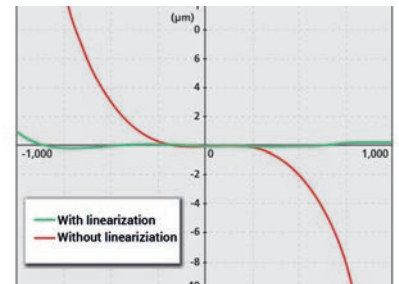
ABS system

Absolute measuring system
The reference to the electric zero point is not lost when the device is switched off

Millimess 1002 / 1003 / 1010 / 2000 W / 2001 W
Everything reliably under control

$316
Millimess 1003

4334000

$480
Millimess *µMaxµm*

4034101

$910
Millimess 2000 W

4346700 *

$1,020
Millimess 2001 W

4346800 *

Order No.	Product	Measuring Range	Display Resolution	Details	List Price	Promo Price
4335000	1002	± 25 µm	0.5 µm	Precision ball bearing of measuring spindle	$726	$650
4334000	1003	± 50 µm	1 µm	Precision ball bearing of measuring spindle	$333	$316
4334001	1003 XL	± 130 µm	2 µm	Precision ball bearing of measuring spindle	$334	$300
4335900	1002 Z	± 0.001 in	20 µin	Precision ball bearing of measuring spindle, with dynamics	$726	$650
4334900	1003 Z	± 0.002 in	50 µin	Precision ball bearing of measuring spindle, with dynamics	$333	$316
2034101	µMaxµm II	± 1 mm / ± 0.040 in	Switchable	Precision ball bearing of measuring spindle, with dynamics	$524	$480
2034201	µMaxµm II	± 1 mm / ± 0.040 in	Switchable	Precision ball bearing of measuring spindle, with dynamics	$654	$590
4346700	2000 W	± 1 mm /± 0.040 in	0.00001 mm, 0.0002 mm, 0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.000005 in, 0.00001 in, 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	Precision ball bearing of measuring spindle, with dynamics	$958	$875
4346800	2001 W	± 1 mm / ± 0.040 in	0.0001 mm, 0.0002 mm, 0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm, 0.01 mm / 0.000005 in, 0.00001 in, 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in	Analog scale, Max/Min/TIR	$1,070	$965

Stand sold separately

Millimar C 1202
Flexible evaluation and display anywhere

The Millimar C 1202 compact instrument is versatile and suitable for use with a variety of sensors.

The Millimar C 1202 represents the next generation of multichannel compact instruments for length metrology. Due to its sophisticated features such as the tilting easy-to-read display, clear menu navigation and flexible representation of measuring values, it offers maximum ergonomics and user-friendliness. Combine with an easy-to-change module from the N 1700 series to create just the right measuring instrument for your measuring task. With its wide range of functions, the Millimar C 1202 is extremely versatile. It can be used to tackle a multitude of measuring tasks, e.g. static and dynamic measurements as well as cone calculations. Moreover, depending on the module, measuring probes by other manufacturers may also be compatible, which will reduce your costs.

Tilting display

Measuring values can be read clearly and effortlessly from all viewing angles. The display also features a backlight.
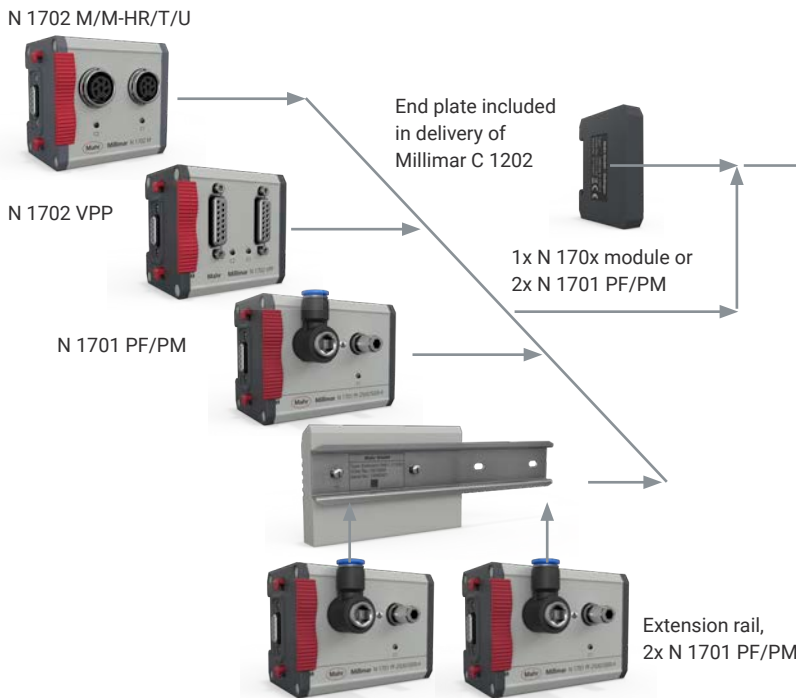
Sturdy plastic housing

As the Millimar C 1202 is impervious to external influences, it is ideal for use in production.

Interchangeable modules

The Millimar C 1202 can be easily converted to handle different measuring tasks.

Configuring C 1202 possbile combinations with N 1700 modules

N 1702 M/M-HR/T/U

N 1702 VPP

End plate included in delivery of Millimar C 1202

1x N 170x module or 2x N 1701 PF/PM

N 1701 PF/PM

Extension rail, 2x N 1701 PF/PM

C 1202

9

Different N 1700 modules
can be combined with Millimar C 1202

Interpret measuring results with ease

The high contrast color display provides a clear presentation of the measuring results.

Large keys

The Millimar C 1202 can also be reliably operated with gloves. Even dirt does not impede its function.

+

Advantages

· Three features can be displayed at the same time for even more static and dynamic measuring tasks

· Two independent inputs via Millimar N 1700 module for the optional connection of measuring probes and pneumatic transducers

· Interchangeable modules for flexibility and compatibility

· Digimatic and USB ports for easy connection to data collection systems and evaluation software

· Programmable measuring sequences for greater productivity and accuracy

Flexible setup options

Users can position the instrument on the table or fix it to the wall.

Millimar C 1200 / 1318 / P 2004
Intelligent and universal application

$**1,480**
Millimar C 1200 M

5312012 *

$**1,270**
Millimar 1318

5313180

$**490**
Millimar P 2004 M

5323010

Order No.	Product	Range	Resolution	Details	List Price	Promo Price
5312012	Millimar C 1200 M	± 5000 μm / ± 0.19 μin	0.1 μm / 4 μin	High-resolution, high-contrast TFT color display	$1,550	$1,480

Order No.	Product	Measuring Range	Measuring Force	Details	List Price	Promo Price
5323010	P 2004 M	± 2 mm / ± 0.080 in	0.75 N	Inductive measuring probe	$543	$490
5313180	1318	- 0.3 . . . 1 mm	0.25 +/-0.05 N	Test indicator inductive probe	$1,410	$1,270

* Compatibility: M = Mahr

Millimar C 1202 / N 1702 / P 2004 / P 1512 / P 1530
Flexible evaluation and display anywhere

$1,650
Millimar C 1202

5312025

$999
Millimar P 1512 V

5315081

$550
Millimar N 1702 M

5331120

$1,310
Millimar N 1702 M-HR

5331125

Order No.	Product	Numerical Display	Resolution	Details	List Price	Promo Price
5312025	Millimar C 1202	± 999 999.9 µm	0.01, 0.1, 1 µm	High-resolution, high-contrast TFT color display	$1,750	$1,650

Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
5331120	Millimar N 1702 M	± 2 mm / ± 0.080 in	0.1 µm / 5 µin	Module for 2 inductive probes,	$607	$550
5331125	Millimar N 1702 M-HR	± 0.2 mm / ± 0.008 in	0.01 µm / 0.5 µin	Module for 2 inductive probes,	$1,380	$1,310
5323010	P 2004 M	± 2 mm / ± 0.080 in		Inductive measuring probe	$614	$550
5331161	N 1702 VPP	± 999 999.9 µm	± 0.01 µm, ± 0.1 µm / ± 0.5 µin, ± 5 µin	Module for 2 digital probes	$595	$530
5315081	P 1512 V	± 12 mm / ± 0.5 in		Digital probe	$1,147	$999

Digimar 817 CLT
Reaching great heights with maximum precision and flexibility

Best connection for secure data

Data can be transferred wirelessly or via USB cable via the MarConnect interface. Quickly print out a series of measurements with an available Bluetooth printer. Choose between complete measuring records in PDF format or save your measuring records as a TXT file.

Interfaces for dial indicators

An interface integrated in the slide enables the error-free measurement of perpendicularity and straightness using the new Millimess 2000/2001W dial comparators.

$8,800
Digimar 817 CLT

4429600

Simple touch measurement

Intuitive operation via large, clearly defined keys to ensure accurate completion of measurements, setting and calculation of functions, and creation of measuring programs via Drag & Drop.

Pivoting display

10-inch touch panel with turn/tilt joint so that it can be set individually for the work position, height of the operator, and lighting conditions.

Easy handling

The thumbwheel can be used to move the measuring slide quickly and easily start the measurement. The quick measurement function keys also automatically detect surfaces and bores.

Order No.	Product	Measuring Range	Resolution	List Price	Promo Price
4429600	817 CLT	0 - 350 mm / 0 - 14 in	0.01 mm, 0.005 mm, 0.001 mm, 0.0005 mm, 0.0001 mm / 0.0005 in, 0.0001 in, 0.00005 in, 0.000020 in, 0.000010 in	$9,320	$8,800
4429601	817 CLT	0 - 600 mm / 0 - 24 in	0.01 mm, 0.005 mm, 0.001 mm, 0.0005 mm, 0.0001 mm / 0.0005 in, 0.0001 in, 0.00005 in, 0.000020 in, 0.000010 in	$10,150	$9,600
4429602	817 CLT	0 -1000 mm / 0 - 40 in	0.01 mm, 0.005 mm, 0.001 mm, 0.0005 mm, 0.0001 mm / 0.0005 in, 0.0001 in, 0.00005 in, 0.000020 in, 0.000010 in	$17,650	$16,700

Digimar 814 SR
Ideal for the workshop, robust and universally applicable
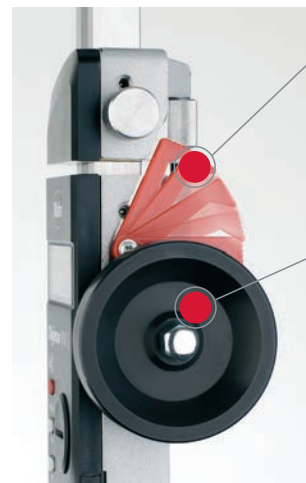

Height Measuring and Scribing Instrument
Exact positioning by handwheel

$850
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	Promo Price
4426100	814 SR	0 - 350 mm / 0 - 14 in	0.01 mm / 0.0005 in	Digit height 12 mm, handwheel for positioning and measuring	$887	$850
4426101	814 SR	0 - 600 mm / 0 - 24 in	0.01 mm / 0.0005 in	Digit height 12 mm, handwheel for positioning and measuring	$1,360	$1,150

Precimar SM 60 / SM 60-V
Simple and robust, ideal for production and QA

Clamping lever

for securing the contact

Precise measuring results

due to the spring-loaded measuring spindle with high-precision bearing

Mount

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

Clamping screw

for securing the support table

$3,150
Precimar SM 60

5357360

Lifting lever

for easy positioning of the measuring probe

5357380 *

SM 60-V with interchangeable measuring inserts for universal use

Application example

Measurement of the diametral two-ball dimension of a gear

$3,300
Precimar SM 60-V

Order No.	Product	Measuring Range	Application Range	Mount ø	Details	List Price	Promo Price
5357360	SM 60	25 mm / 1 in	0 - 60 mm / 0 - 2.36 in	8 mm	Table size ø 60 mm / flat anvil	$3,470	$3,150
5357380	SM 60-V	25 mm / 1 in	0 - 60 mm / 0 - 2.36 in	8 mm	Table size ø 60 mm / Including pair of carbide anvils Ø 3.5 mm	$3,670	$3,300

Indicator sold separately

Precimar ICM 100 IP

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 test piece are not exactly centered in the image, the system will read the displayed values perfectly.

$35,910
Precimar ICM 100 IP

Universal and reliable

The Precimar ICM 100 IP is based on the tried-and-tested Precimar ICM 100 dial indicator test station – also known as Optimar 100. This versatile, market-tested 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.

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: Fold down the lever, adjust the height continuously – done. Handling is easy and, due to spring-supported weight reduction, particularly comfortable and ergonomic.
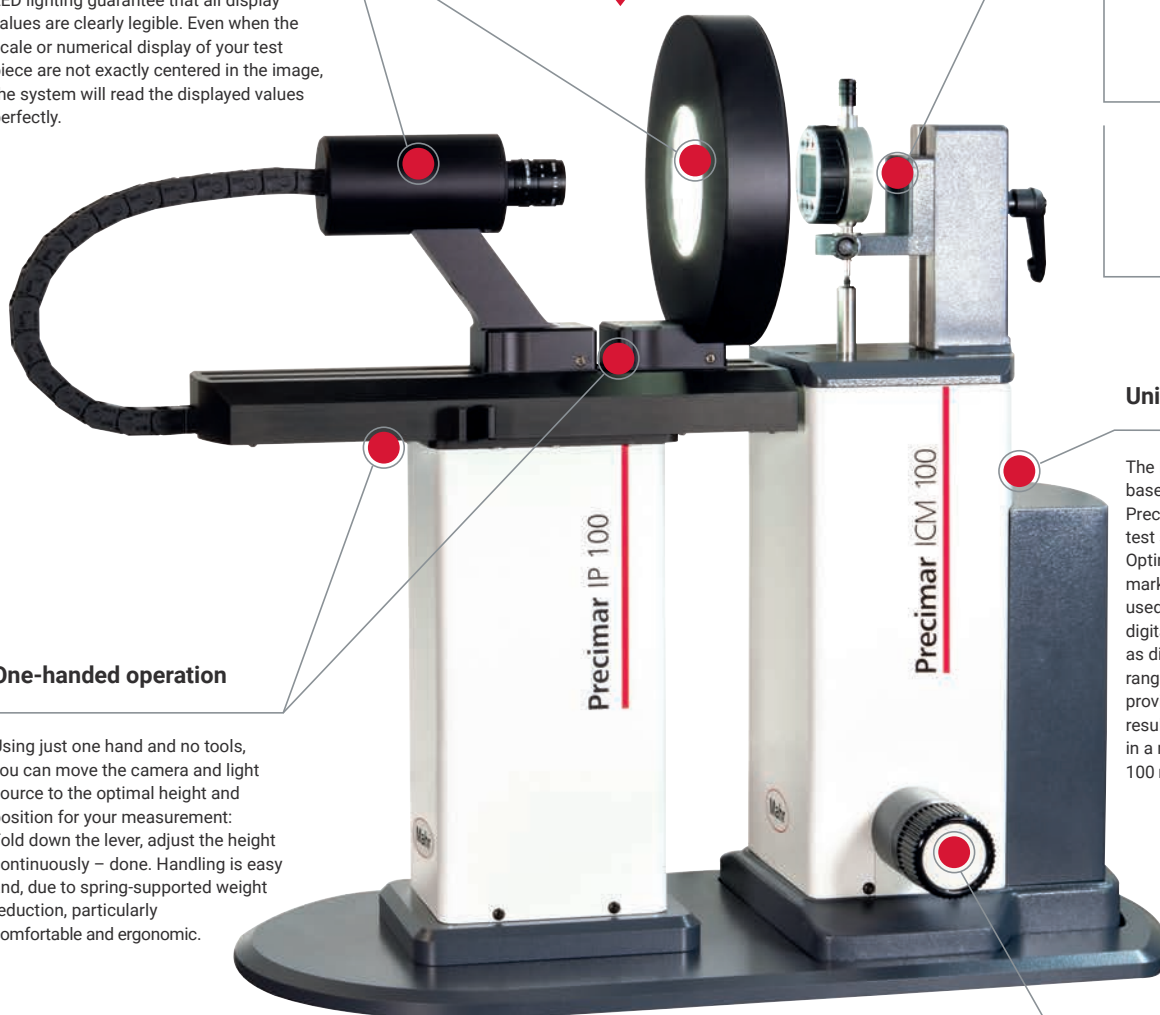
5351010

Manual mode

Do you want to check your test pieces manually in individual cases? You can still do so with easy handwheel operation. In manual mode, the camera serves as a magnifying glass. Due 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	Measuring Uncertainty MPE$_{E1}$	Details	Promo Price
2152807	Precimar ICM 100 IP	100 mm / 4 in	0.2 + L / 250 µm	Incremental measuring system, USB 3.0 CMOS camera. Commissioning and travel expenses **NOT included.**	$35,910
2062722	ICM 25 Manual Indicator				$9,500

MMQ 100
Compact design for use on workbench or in measuring room

The MarForm MMQ 100 form tester is the ideal solution for simple yet precise measuring tasks.

- 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
- All in one PC is included
- No keyboard or mouse required with all in one touchscreen computer

$15,950
MMQ 100

2185912

Order No.	Product	Details	List Price	Promo Price
2185912	MarForm MMQ 100	MarForm MMQ 100 **includes** MarWin 14 EasyForm Software package, all-in-one computer. **Does not include** chuck, commissioning or travel expenses.	$17,700	$15,950

Pocket Surf IV
Simple to use and easy to read

The Pocket Surf IV is simple to use and easy to read, displaying measurement results of Ra, Rz, or Rmax at a glance. This portable surface finish gage employs Mahr's unique MarConnect universal interface which allows for USB, RS-232 or digimatic output of data by choosing the right cable.
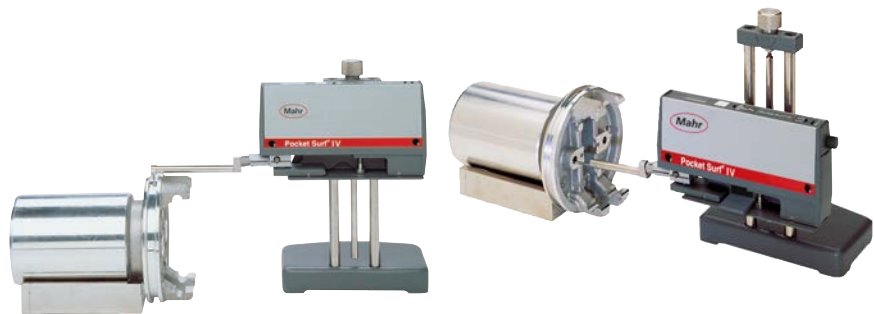
$2,650
PocketSurf IV

2191800

Pocket Surf IV complete kit

A wide selection of stands, accessories and application-specific probes are available

Order No.	Product	Details	List Price	Promo Price
2191800	Pocket Surf IV	EGH-1019: probe, 90° , 10 µm radius, PMD-90101 certified specimen	$2,960	$2,650
2191802	Pocket Surf IV	EGH-1026: probe, 90° , 5 µm radius, PMD-90101 certified specimen	$2,960	$2,650

MarSurf PS 10

Mobile measuring made easy

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).

500 g
lightweight

- 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 due to an integrated, removable roughness standard
- Automatic cutoff selection, ensuring that even non-specialists get the correct measuring results

9
other optional
probes

Always at hand

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

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.
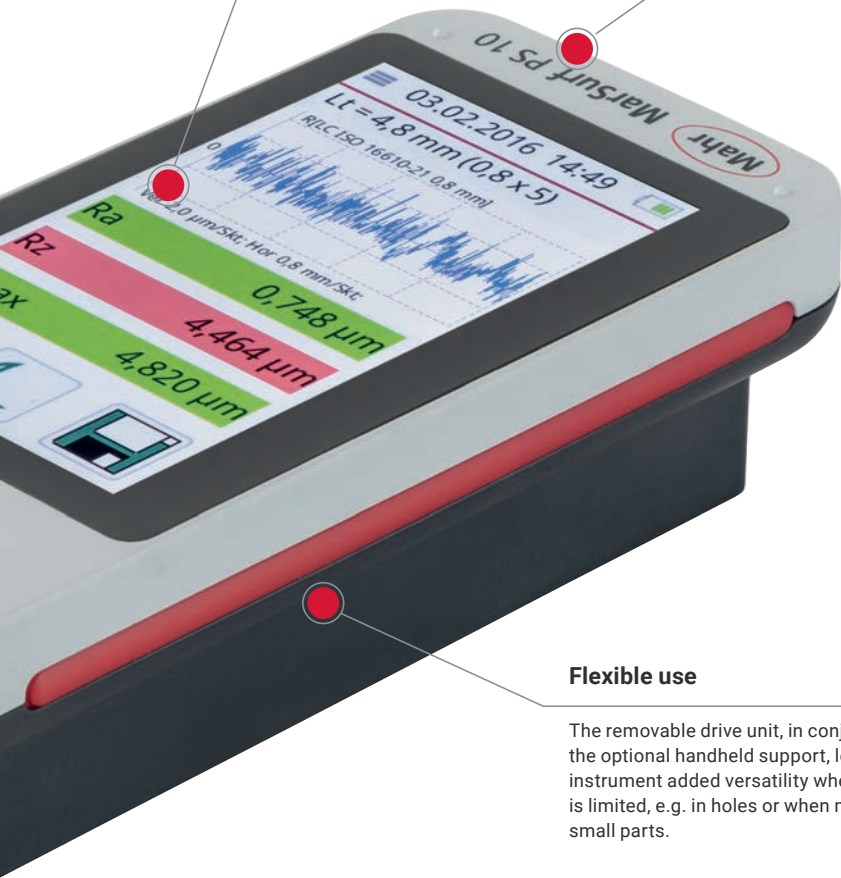
up to
500,000
measurements
can be stored in the instrument

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

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.

$2,650
MarSurf PS 10

6910230

Order No.	Product	Measuring Range	Probe	Details	List Price	Promo Price
6910230	PS 10	350 µm	Skidded probe system	Storage capacity for min. 3900 profiles, min. 500,000 results, min. 1500 PDF protocols, expandable with microSD card up to 32 GBF, 2 µm probe	$2,960	$2,650
6910232	PS 10	350 µm	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, 5 µm probe	$2,960	$2,650

MarSurf M 310

Brings added value for mobile roughness measurement

Are you used to using your smartphone to access your data anytime, wherever you are? Mahr's MarSurf M 310 provides you, 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.

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.

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 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.

Robust in every respect

Equipped for virtually any environment: The robust skidded probe system means that the measuring instrument is less vulnerable 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.
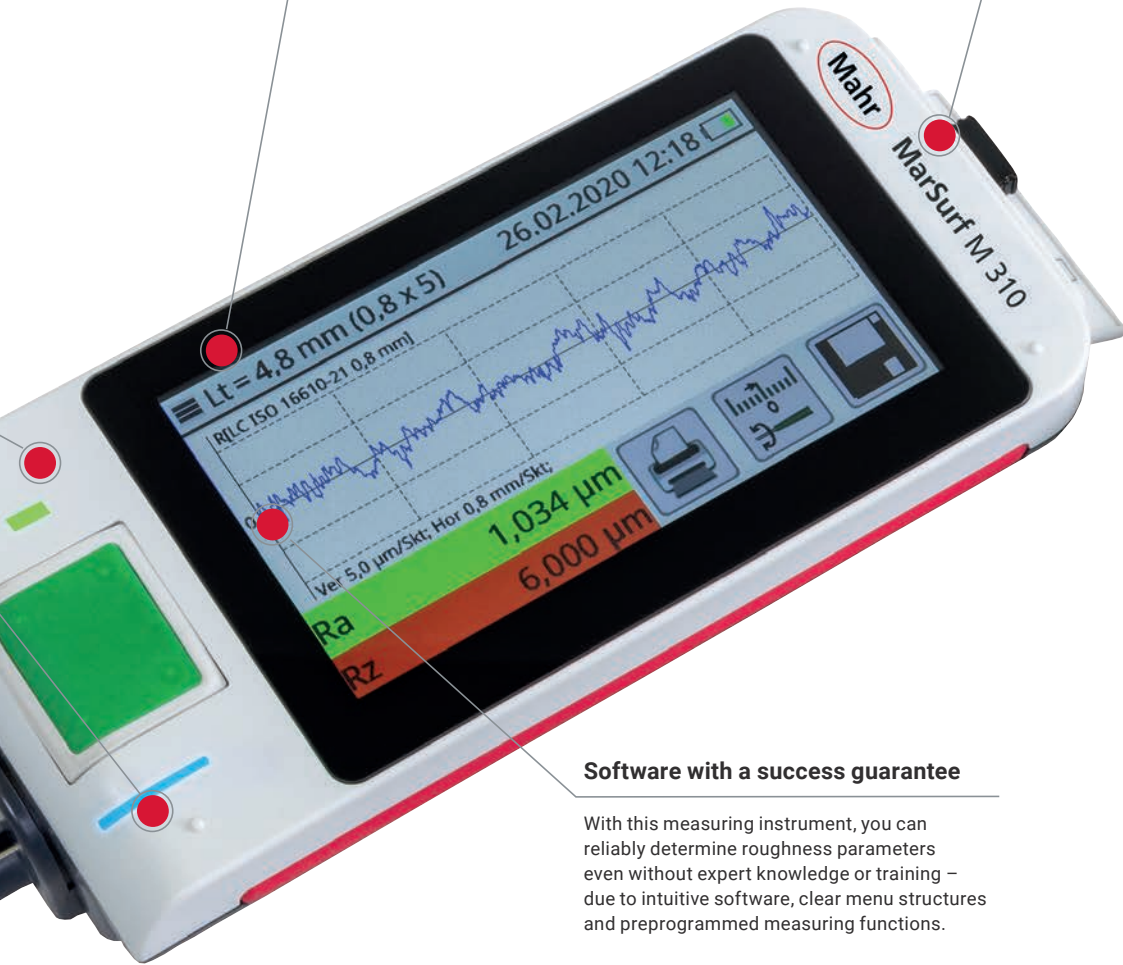
Software with a success guarantee

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.

6910260

$3,700
MarSurf M 310 SET

6910265

Order No.	Product	Measuring Range	Probe	Details	List Price	Promo Price
6910260	MarSurf M 310 set	350 µm	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 to32 GB	$4,590	$3,700
6910295	MarSurf M 310 set	350 µm	Skidded probe system 5 µm probe tip	Storage capacity for min. 3900 profiles, 1500 PDF protocols and 500,000 results, expandable with microSD card up to 32 GB	$4,590	$3,700
6910271	Printer			Portable Bluetooth printer	$600	$570

MarSurf M 410

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

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 can transfer data via Bluetooth – all of which effectively simplify your workload.

Benefit from functions that only Mahr can offer. In addition to practical and efficient design and the flexibility, the MarSurf M 410 also has an automatic filter setting that detects the surface structure. This automatic contact also guarantees the unmatched reliability of your measurements. The magnetic 3-point holder for the probe arm and 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.

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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 due to automated cutoff option

- Automatic zeroing ensures process and material safety

- IATF ready – 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 be easily released by the magnetic holder.
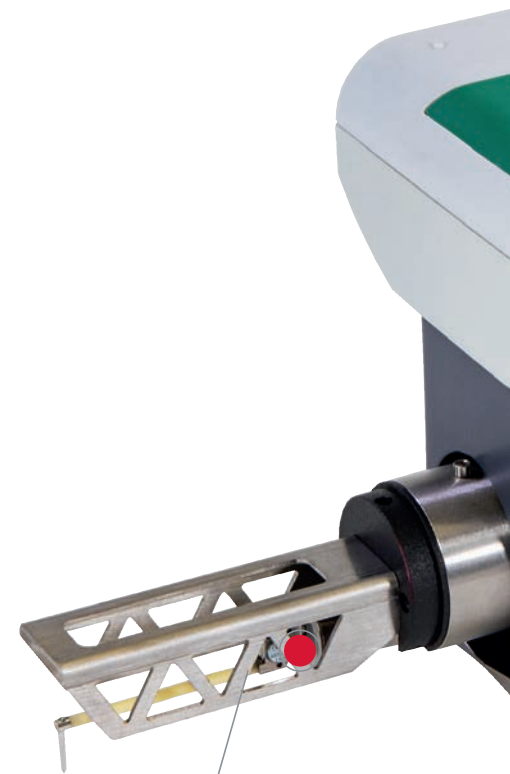
Simple alignment of the probe system

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 instrument to a PC via Bluetooth and transfer your data wirelessly to Excel or another software application.

Importing information using a scanner

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.

$8,500
MarSurf M 410 SET

6910290

Order No.	Product	Measuring Range	Probe	Details	List Price	Promo Price
6910290	MarSurf M 410 set	500 µm (±250 µm) with probe arm length 45 mm 1500 µm (±750 µm) with probe arm length 135 mm	2 µm probe supplied with set 5 µm and 10 µm probes are optionally available	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)	$8,900	$8,500
6910294	MarSurf M410 Mount			Mounting device for stands	$675	$640
6710807	ST-G			Granite measuring stand	$2,350	$2,150
6910271	Printer			Portable Bluetooth printer	$600	$570

MarSurf CD 140 AG 11
## Versatile with intelligent probe system

**Mahr has launched a new contour measuring machine – 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 impressed by its extreme versatility – it can also be used to
measure roughness. The intelligent probe system and magnetic stylus tip holder ensure the most
straightforward process to date for replacing stylus tips without any tools 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 others

• Optionally expandable with roughness measurements (Rz >2 µm)

• Measurement with double stylus
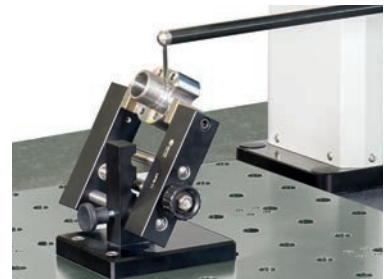
Plug-in guide stops and a wide range of standardized clamping devices, as well as workpiece holders, enable flexible
positioning of your test piece.

Manual quick adjustment

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

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.

X-axis with maximum measuring range

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

Support plate 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.

$26,500
MarSurf CD 140 AG 11

2150198

Order No.	Product	Measuring Range	Probe	Details	Promo Price
2150198	MarSurf CD 140 AG 11	70 µm	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. **Does Not** include commissioning or travel expenses	$26,500
2192104	MarSurf CD 140 AG 11 (including option Roughness)	70 µm	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. **Does Not** include commissioning or travel expenses	$29,900

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