



Mahr® | A passion for detail

Edition  
2024

# Mahr's Fall Sale

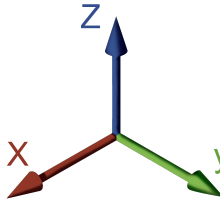
## Maximum Precision with our Digimar 816 CLT

- Motorized measurement
- Ergonomic handling
- Wide range of evaluation options
- Create PDF measuring records



Special offer prices

October 1 - December 31, 2024



# MEASUREMENT SOLUTIONS, INC.

Measurement Problems - SOLVED!



262-278-6049

[www.measurementsolutionsinc.com](http://www.measurementsolutionsinc.com)

# Measure close to production with the **Digimar 816 CLT**

Measurements in the thick of the action: This is what the new Digimar 816 CLT is all about: due to its optimized mechanics, has proven itself in the rough and tumble of everyday production. Measure accurately and easily like never before! The new addition to the Mahr height measuring instruments boasts outstanding measuring accuracy and is extremely easy to operate. The Digimar 816 CLT has a practical touch display with extra-large buttons, an integrated PDF memory, wireless data transfer and a wide range of accessories to make your work easier.

Max. length measuring uncertainty:

$$2.0 + L/400 \mu\text{m}$$

(L in mm)

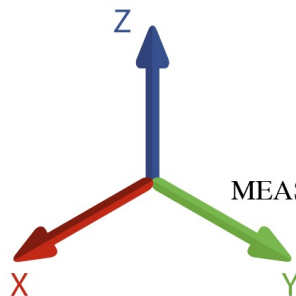


## Advantages

- Extra large buttons for quick and reliable execution of functions
- Reliable measuring results thanks to motorized contacting without manual operator influence
- Create PDF measuring records directly on the device
- Wireless data transfer or via USB
- Free MarCom software to transfer data

## Best ergonomics

Ergonomic handles on both sides have an integrated operating key for the air bearing ensuring the device can be moved accurately and effortlessly on the measuring plate.



**msi**

MEASUREMENT PROBLEMS - SOLVED!

[www.measurementsolutionsinc.com](http://www.measurementsolutionsinc.com)

Fall Sale



**\$7,000**  
Digimar 816 CLT

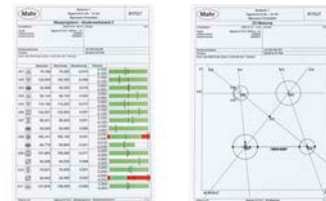
4429630

**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? A Blue-tooth printer is available for this purpose. Simply choose between complete measuring records in PDF format or save your measuring records as a TXT file.

**Creation of PDFs directly on the device**

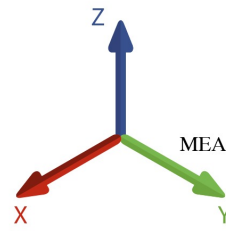
Practical: The device creates a complete PDF file without the need for additional software or transfer to a computer. Information can be added to the PDF files directly on the device.



**Simple touch measurement**

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

Order No.	Product	Measuring Range	Resolution	List Price	Promo Price
4429630	816 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	\$7,300	\$7,000
4429631	816 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	\$8,400	\$8,000



# Digimar 817 CLT

Reaching great heights with maximum precision and flexibility

Fall Sale



### 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 the available Star Micronics SM-L200 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 2000/2001 W dial comparators.



**\$8,200**  
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	\$8,500	\$8,200
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	\$9,600	\$9,200
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	\$16,000	\$15,500

# Digimar 814 SR

Ideal for the workshop, robust and universally applicable

Fall Sale

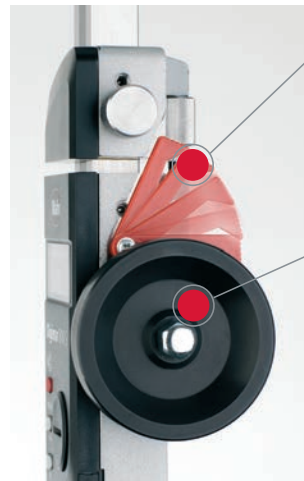
## Height Measuring and Scribing Instrument

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	<b>\$850</b>
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	<b>\$1,150</b>

# 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

# 85

Products



MarCal 16 EWRI

Digital calipers



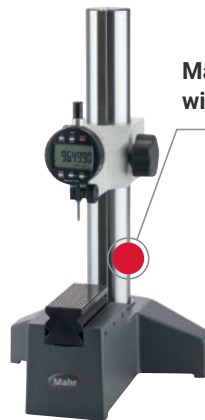
Micromar 40 EWRI

Digital micrometer



MarCator 1087 Ri

Digital indicator



MarCator 1086 Ri with stand



MarCator 1086 Ri with 3-point pistol



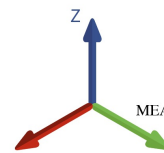
Millimes 2001 Wi

Digital comparator

MarCator 1087 Ri with SM 60



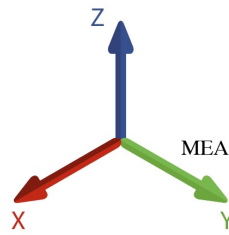
Precimar SM 60



# msi

MEASUREMENT PROBLEMS - SOLVED!

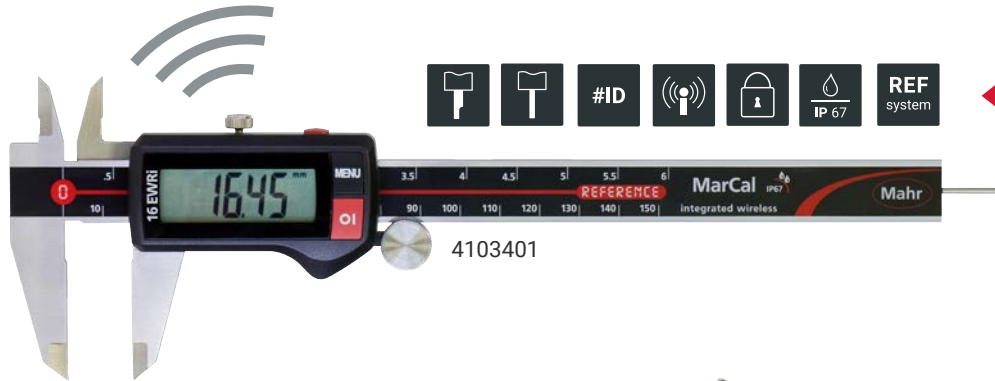
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# MarCal 16 EWRI / 30 EWRI

## Digital calipers with wireless interface

Fall Sale



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**\$240**  
MarCal 16 EWRI

4103401



4102220

Transfer measuring data conveniently



- 
- 
- 

**\$558**  
MarCal 16 EWRI

4126671

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	\$280
2121611	16 EWRI	0 -150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	Starter pack including i-Stick	\$435	\$280
4126671	30 EWRI	0 -150 mm / 0 - 6 in				\$620	\$558
4126672	30 EWRI	0 -200 mm / 0 - 8 in				\$700	\$630
4126673	30 EWRI	0 -300 / 0 - 12 in				\$810	\$729
4126751	30 EWRI	25 mm / 1 in				\$423	\$405
<b>Accessories for Measuring Instruments with Integrated Wireless</b>							
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless				\$116	\$90

# Micromar 40 EWRI

Micrometers that embody the pursuit of perfection

Fall Sale



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

**\$380**  
Micromar 40 EWRI

4157100

**\$530**  
Micromar 40 EWRI-L



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

4157120



**\$1,890**  
Micromar 40 EWRI-V SET

4157150

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

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
4157121	40 EWRI-L	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in		\$631	\$599
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

- Wireless
- i-Stick
- Digimatic
- RS232C

**\$575**  
MarCator 1087 Ri

4337663

- Wireless
- #ID
- RS232C
- Digimatic
- i-Stick
- ABS
- TOL
- Lock
- IP 42
- REF system

**\$475**  
MarCator 1086 Ri

4337624

Fall Sale

Millimes | Inductive comparators

# Millimes 2000 Wi / 2001 Wi

- Touchscreen
- Wireless
- IP 65
- Lock

**\$890**  
Millimes 2000 Wi

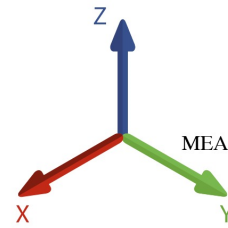
4346701

- Touchscreen
- Wireless
- IP 65
- Lock

**\$990**  
Millimes 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	\$940	\$890
4346801	2001 Wi	± 1 mm / ± 0.040 in	0.0001 mm / 0.000005 in	Analog scale, Max/Min/TIR, wireless	\$1,040	\$990
<b>Accessories for measuring instruments with Integrated Wireless and data cable connection</b>						
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless			\$116	\$90

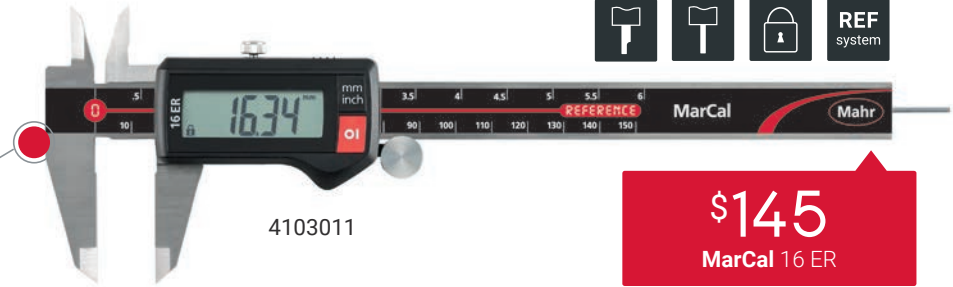


# MarCal 16 ER / 16 EWR

## Digital calipers without data output

Fall Sale

The standard  
in the workshop



4103011

**\$145**  
MarCal 16 ER



4103301

**\$200**  
MarCal 16 EWR

The robust caliper  
for production and the workshop

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	\$258	\$230
4103301	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Round	IP67, with thumbwheel	\$238	\$200
4103303	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	IP67, with thumbwheel	\$238	\$200

# MarCal 30 EWR

## Digital depth gages



4126651

**\$495**  
MarCal 30 EWR

Order No.	Product	Measuring Range	Resolution	Details	List Price	Promo Price
4126651	30 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	IP65, with data output	\$550	\$495
4126652	30 EWR	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	IP65, with data output	\$630	\$567
4126653	30 EWR	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in	IP65, with data output	\$720	\$648

# Micromar 40 ER / 40 EWR / 40 EWR-L / 40 EWR-V

The robust ones for production and the workshop

Fall Sale

ABS
 IP 65
 REF system

\$415  
 Micromar 40 EWR

4157012

\$489  
 Micromar 40 EWR-L

IP 67
 Digimatic

4157020

TOL

 ABS
 Digimatic

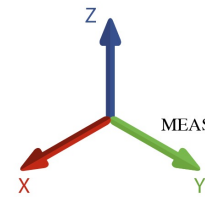
#ID

 IP 65
 REF system

\$1,780  
 Micromar 40 EWR-V

4157050

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	IP40	\$256	\$243
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
4157020	40 EWR-L	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	\$515	\$489
4157021	40 EWR-L	25 - 50 mm / 1 in - 2 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	\$581	\$551
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

Fall Sale



**\$3,900**  
Micromar 44 EWR/SET

4191162



Measure bores

in one movement

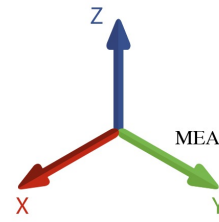


**\$3,815**  
Micromar 844 AS/SET

4487762

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	\$2,650
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



# Marameter 844 K

High-precision comparative measurements of holes

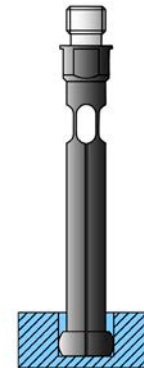
Fall Sale

**\$988**  
Marameter 844 N



4474000

**\$1,554**  
Marameter 844 K



4473006

Order No.	Product	Measuring Range	Measuring Depth	Number of Measuring Probes	List Price	Promo Price
4473006	844 K	1.5 mm - 3.95 mm / 0.06 in - 0.16 in	-	9 pieces	\$1,636	\$1,554
4473007	844 K	3.7 mm - 9.8 mm / 0.15 in - 0.39 in	-	12 pieces	\$1,741	\$1,653
4473009	844 K	9.4 mm - 20.6 mm / 0.37 in - 0.81 in	-	11 pieces	\$1,724	\$1,637
4474000	844 N	18 mm - 50 mm / 0.7 in - 2 in	115 mm / 4.53 in	-	\$1,040	\$988
4475000	844 NH	250 mm - 800 mm / 10 in - 32 in	336 mm / 12.23 in	-	\$1,300	\$1,235

## MarCator ANSI/AGD Group 2

The standard of the industry for nearly 100 years

Fall Sale

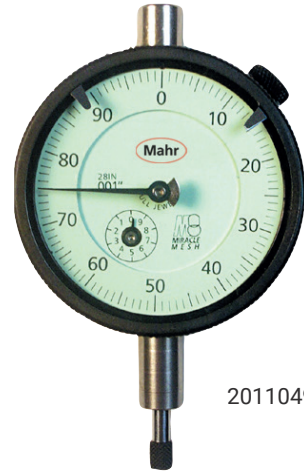


2014698

**\$260**

MarCator 281SN

**\$235**  
MarCator 281N-RC



2011049

Order No.	Product	Measuring Range	Graduation Value	Dial Style	List Price	Promo Price
2011049	281N-RC	0.250 in	0.001 in	0-100	\$273	\$235
2014698	281SN	0.500 in	0.001 in	0-100	\$296	\$260
2014699	281QN	1.000 in	0.001 in	0-100	\$296	\$260

## MarCator | Digital indicators

## MarCator 1086 R / 1087 R

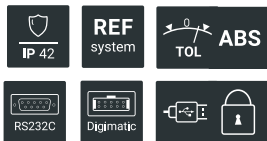
Perfectly suited to your measuring tasks



4337620

**\$470**

MarCator 1086 R



4337660

**\$580**

MarCator 1087 R



# MarCator 1086 R-HR / 1087 R-HR

## Highest precision with a large measuring range

Fall Sale

**\$705**  
MarCator 1086 R-HR



4337697

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

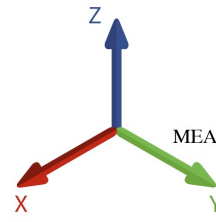
**\$870**  
MarCator 1087 R-HR



4337695

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

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	\$451
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

Fall Sale



### Integrated Wireless

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



Can be configured and controlled remotely using MarCom Professional Software



### 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



### Data interface via Digimatic

- To send measuring data



### 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



### Protection rating IP 64

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

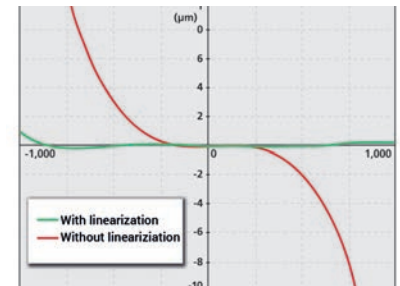


### Convenient tolerance functions

- 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



### Absolute measuring system

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



# Millimes 1002 / 1003 / 1010 / 2000 W / 2001 W

Everything reliably under control

Fall Sale

**\$316**  
 Millimes 1003



4334000

**\$480**  
 Millimes  $\mu$ Max $\mu$ m



2034101








**\$830**  
 Millimes 2000 W

4346700 \*









**\$915**  
 Millimes 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	<del>\$650</del>
4334000	1003	± 50 μm	1 μm	Precision ball bearing of measuring spindle	\$333	<del>\$316</del>
4334001	1003 XL	± 130 μm	2 μm	Precision ball bearing of measuring spindle	\$334	<del>\$300</del>
4335900	1002 Z	± 0.001 in	20 μin	Precision ball bearing of measuring spindle, with dynamics	\$726	<del>\$650</del>
4334900	1003 Z	± 0.002 in	50 μin	Precision ball bearing of measuring spindle, with dynamics	\$333	<del>\$316</del>
2034101	$\mu$ Max $\mu$ m II	± 1 mm / ± 0.040 in	Switchable	Precision ball bearing of measuring spindle, with dynamics	\$524	<del>\$480</del>
2034201	$\mu$ Max $\mu$ m II	± 1 mm / ± 0.040 in	Switchable	Precision ball bearing of measuring spindle, with dynamics	\$654	<del>\$590</del>
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	\$875	<del>\$830</del>
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	\$965	<del>\$915</del>

\*Stand sold separately



# Millimar C 1202

## Flexible evaluation and display anywhere

Fall Sale

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.

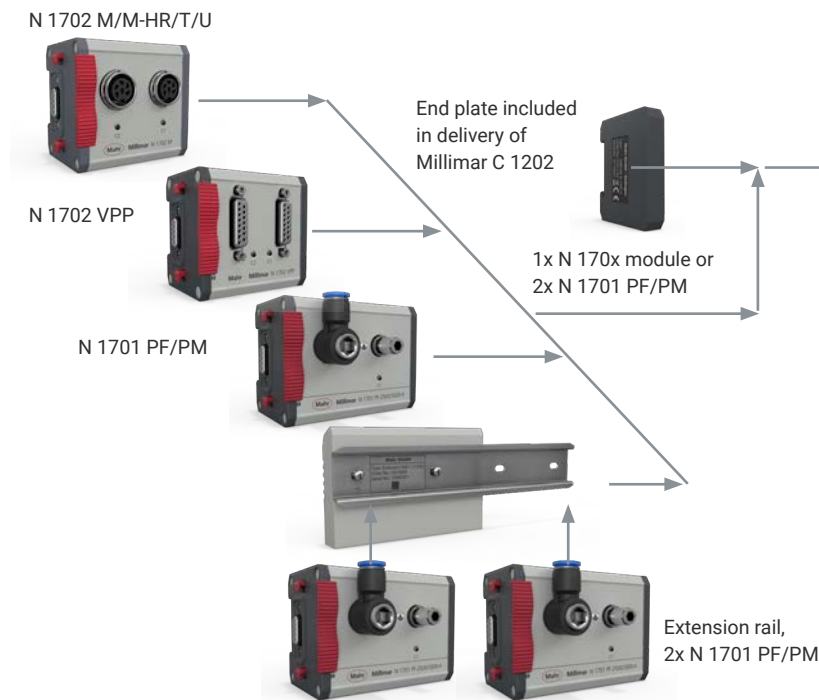
### Sturdy plastic housing

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 possible combinations with N 1700 modules



C 1202

# 9

Different N 1700 modules  
can be combined with Millimar C 1202



Fall Sale



### 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.

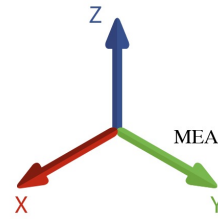


### Advantages

- 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

Fall Sale



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



5312012 \*

**\$490**  
Millimar P 2004 M

5323010



Order No.	Product	Measuring 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

\* 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



**\$1,089**  
Millimar P 1512 V

5315081

Fall Sale



**\$550**  
Millimar N 1702 M

5331120

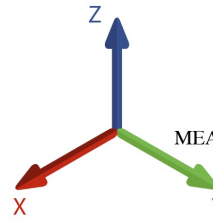


**\$1,310**  
Millimar N 1702 M-HR

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	\$543	\$490
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	\$565
5323011	P2004T			Inductive measuring probe	\$614	\$550
5315081	P 1512 V	± 12 mm / ± 0.5 in	20 µm	Digital probe	\$1,147	\$1,089
5315311	P1530 V		20 µm	Incremental measuring probe	\$1,560	\$1,482



# Precimar SM 60 / SM 60-V

Simple and robust, ideal for production and QA

Fall Sale

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

**Clamping lever**  
for securing the contact

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

**Clamping screw**  
for securing the support table

**Lifting lever**  
for easy positioning of the measuring probe

**\$2,300**  
Precimar SM 60

5357360

**Application example**  
Measurement of the diametral two-ball dimension of a gear

**\$2,500**  
Precimar SM 60-V

5357380 \*

**SM 60-V with interchangeable measuring inserts for universal use**

Order No.	Product	Measuring Range	Application Range	Mount $\phi$	Details	List Price	Promo Price
5357360	SM 60	25 mm / 1 in	0 - 60 mm / 0 - 2.36 in	8 mm	Table size $\phi$ 60 mm / flat anvil	\$3,470	\$2,300
5357380	SM 60-V	25 mm / 1 in	0 - 60 mm / 0 - 2.36 in	8 mm	Table size $\phi$ 60 mm / Including pair of carbide anvils $\phi$ 3.5 mm	\$3,670	\$2,500

\* 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



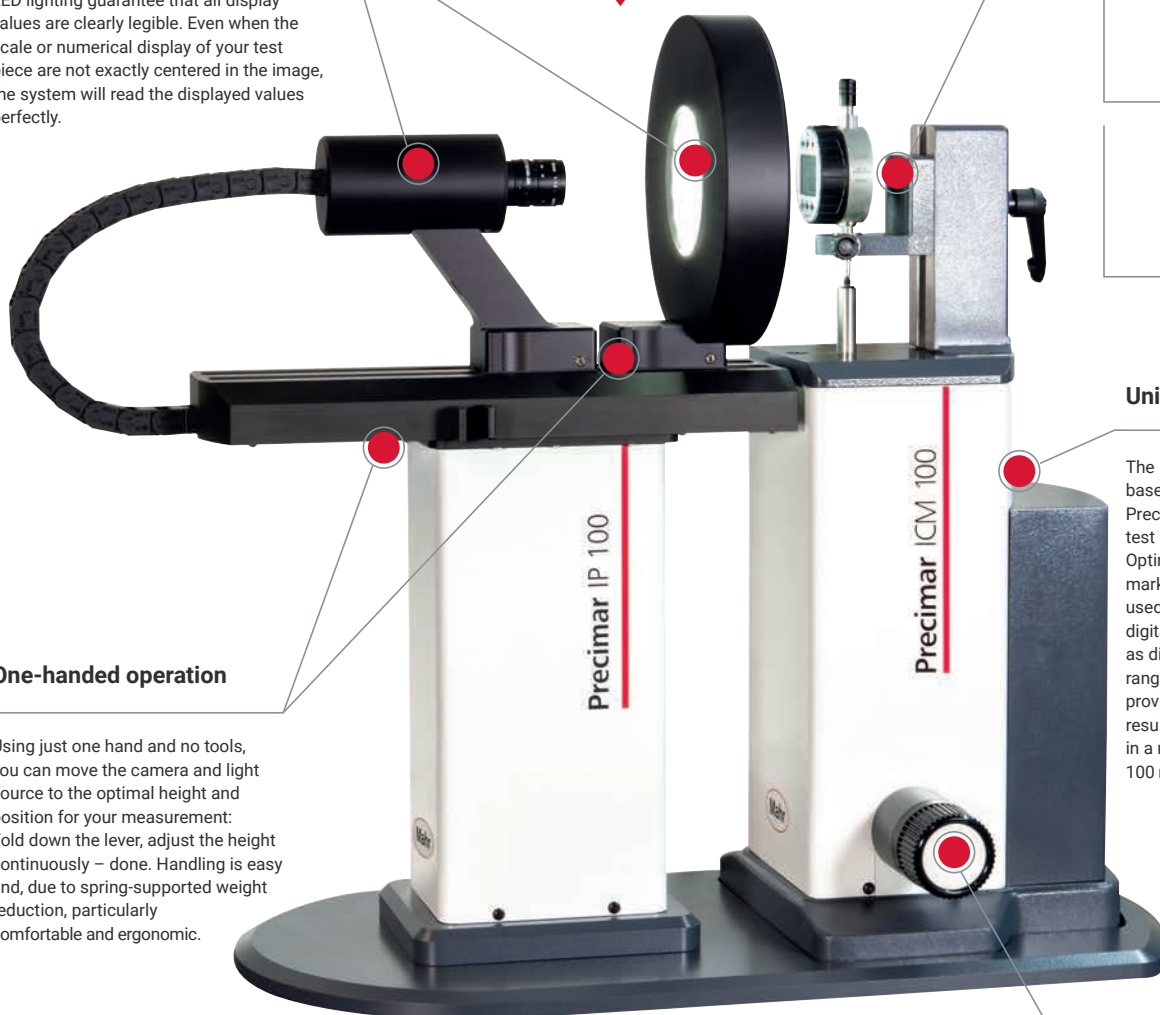
Fall Sale

## 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.

## 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.



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	List Price	Promo Price
2152807	Precimar ICM 100 IP	100 mm / 4 in	$0.2 + L / 250 \mu\text{m}$	Incremental measuring system, USB 3.0 CMOS camera. Does not include commissioning and travel expenses.	\$39,900	<b>\$35,910</b>
2062722	ICM 25 Manual Indicator	25 mm, 2 in	$\pm 0.2$		\$10,580	<b>\$8,000</b>

# MarTest 800 S / 800 SG / 800 SM

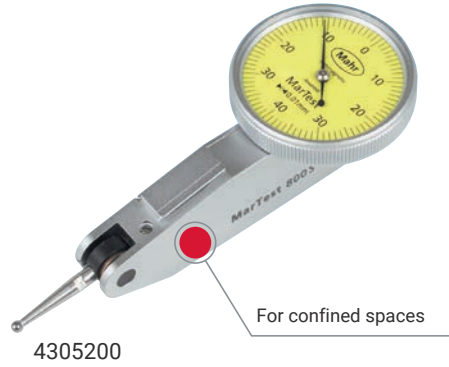
Dial test indicator measuring devices with scale display

Fall Sale

**\$190**  
MarTest 800 SGM



**\$120**  
MarTest 800 S



Order No.	Product	Measuring Range	Graduation Value	Details	List Price	Promo Price
4311050	810 A				\$84	\$75
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



# 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.

Fall Sale

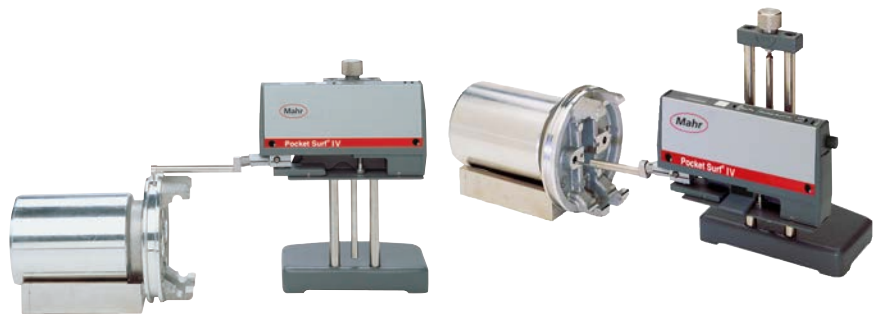


**\$2,500**  
PocketSurf IV

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	\$2,500
2191802	Pocket Surf IV	EGH-1026: probe, 90°, 5 µm radius, PMD-90101 certified specimen	\$2,960	\$2,500

## 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  $\mu\text{m}$ , 5  $\mu\text{m}$  and also a variant with a transverse drive unit (MarSurf PS 10 C2).

500g  
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

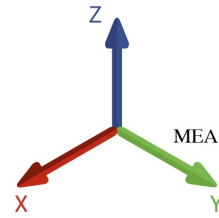


9

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.



**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.

**\$2,500**  
MarSurf PS 10

2152892

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

Fall Sale

Order No.	MarSurf PS 10 Promo	List Price	Promo Price
2152892	MarSurf PS 10 with one 2 µm probe	\$2,960	\$2,500
2152893	MarSurf PS 10 with one 5 µm probe	\$2,960	\$2,500
Order No.	Free Probe Package	List Price	Promo Price
2152894	MarSurf PS 10 with two 2 µm probes	\$3,858	\$2,700
2152895	MarSurf PS 10 with two 5 µm probes	\$3,858	\$2,700
Order No.	24" Digimar 814 SR Height Gage Package	List Price	Promo Price
2152896	MarSurf PS 10 with one 2 µm probe, 24" 814 SR height gage and mount	\$4,726	\$3,550
2152897	MarSurf PS 10 with one 5 µm probe, 24" 814 SR height gage and mount	\$4,726	\$3,550
Order No.	Data Storage Package	List Price	Promo Price
2152898	MarSurf PS 10 with one 2 µm probe and DK-U1 data cable that allows connection to free MarCom Software	\$3,223	\$2,600
2152899	MarSurf PS 10 with one 5 µm probe and DK-U1 data cable that allows connection to free MarCom Software	\$3,223	\$2,600

## 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.

## 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 inexperienced workers 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 measuring tasks on the robot arm. They control the measuring instrument remotely – conveniently from your computer.

#### 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 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.

### Traceable results

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



### Software with a guaranteed success

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 to 32 GB	\$4,590	\$3,700
6910265	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 Star Micronics SM-L200 Bluetooth® printer	\$600	\$570

Fall Sale

## 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 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. In addition to practical and efficient design, the MarSurf M 410 also has an automatic filter setting. Automatic probe contacting 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.

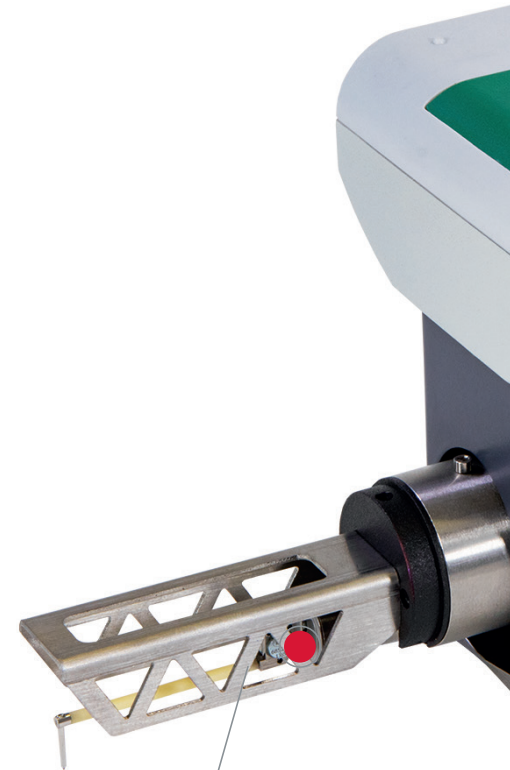


### Advantages

- 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
- Free MarCom software to transfer data

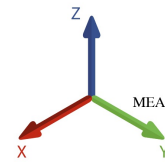
### Possible to separate the display and probe system

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.



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

### 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.



**\$7,600**

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	\$7,600

Fall Sale

# MarSurf CD 140 AG 11

## Versatile with intelligent probe system

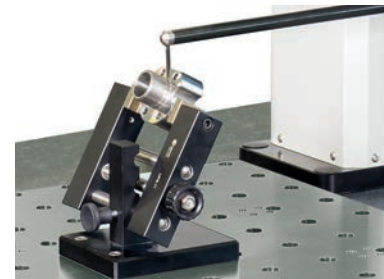
**Mahr has launched a new contour measuring machine – the MarSurf CD 140 AG 11. Its probe system has a measuring range of up to 70 mm and the stylus tips can be replaced quickly and without any tools or without having to recalibrate the system.**

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 ( $R_a > 2 \mu\text{m}$ ). 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.



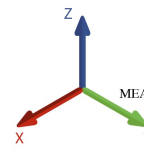
### Advantages

- 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 ( $R_a > 2 \mu\text{m}$ )
- Measurement with double stylus for diameters



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 drive unit and down.

### X-axis with maximum measuring range

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

### Unique probe system

The probe system with a functional 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.

### 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 mm	With probe arm length 350 mm	Measuring force 4 mN to 30 mN, adjustable via software X-axis measuring speed: 0.1 mm/s to 10 mm/s X-axis positioning speed: 0.1 mm/s to 200 mm/s Does not include commissioning or travel expenses	\$26,500
2192104	MarSurf CD 140 AG 11 (including roughness option)	70 mm	With probe arm length 350 mm	Measuring force 4 mN to 30 mN, adjustable via software X-axis measuring speed: 0.1 mm/s to 10 mm/s X-axis positioning speed: 0.1 mm/s to 200 mm/s Does not include commissioning or travel expenses	\$29,900

Fall Sale

# MarSurf CD 140 AF is your solution for measuring the contours of individual workpieces

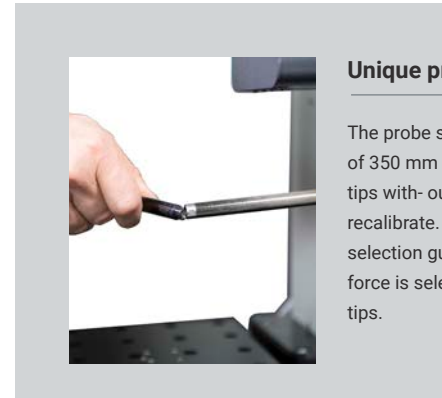
With its flexible clamp stand, the new MarSurf CD 140 AF contour measuring machine can measure both standardized and individual workpieces. This enables you to achieve simple and reliable quality assurance with easy handling.

The MarSurf CD 140 AF contour measuring machine delivers fast and precise measurements. It boasts a flexible workpiece holder, which makes it particularly easy to handle. 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. Due to the flexible clamp stand, both standardized and individual testpieces can be measured with ease.



## Advantages

- Comprehensive contour measurement functions – fast and simple
- Replacement of the stylus tip without any tools
- Travel speed in the X-axis of up to 200 mm/s
- Simple program creation or individual measurement using MarWin
- Automatic evaluation, best adjustment of contours, CAD contour comparison, and a lot more
- Flexible support plate with 25 mm bore grid for KMG workpiece holders etc.
- Height-adjustable clamp stand for flexible use of workpiece holders and easy arrangement of workpieces in the correct measuring position
- Optionally expandable with the option of roughness measurements ( $R_a > 2 \mu\text{m}$ )
- Measurement with double stylus for diameters



## Height-adjustable clamp stand

The flexibly adjustable clamp stand enables the use of standardized clamps and individual workpiece holders.

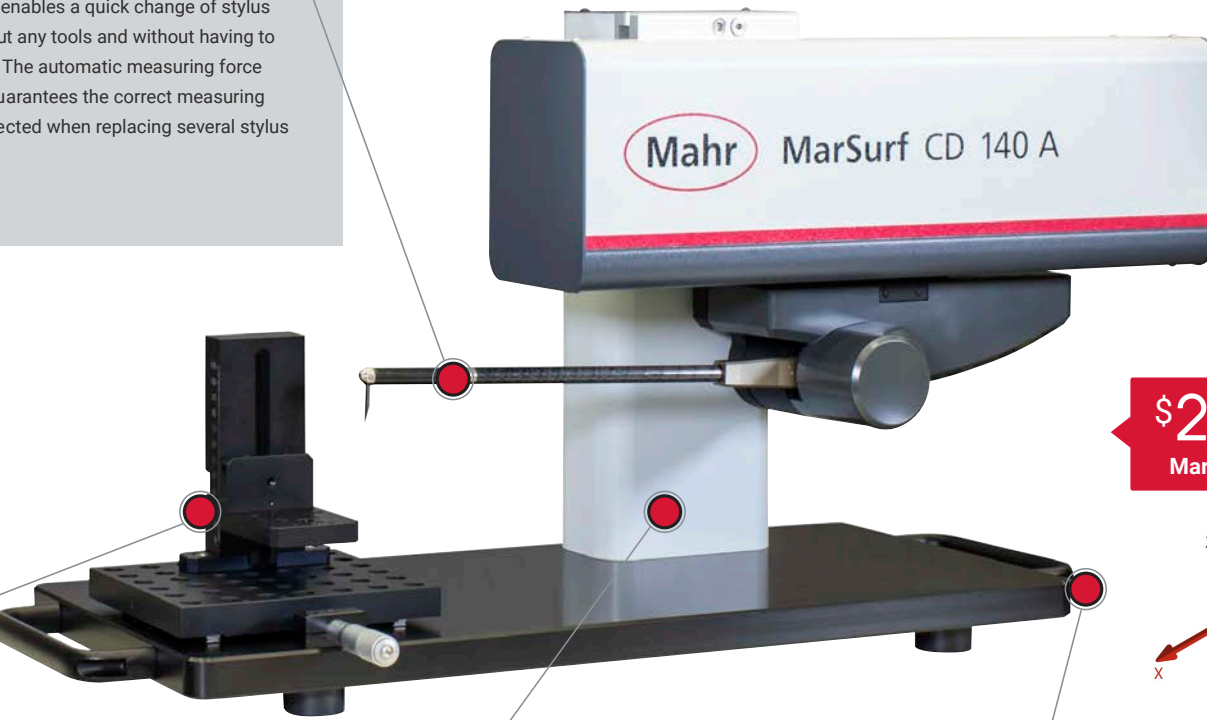


In combination with standardized clamping devices, the clamp stand enables flexible positioning of your testpiece.

Fall Sale

**Probe system**

The probe system with a probe arm length of 350 mm enables a quick change of stylus in any position and without having to touch the test piece. The automatic measuring force control guarantees the correct measuring force is selected when replacing several stylus.



**\$24,900**  
MarSurf CD 140 AF 11



**X-axis with maximum measuring range**

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

**Ergonomic carrying handles**

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

Order No.	Product	Measuring Range	Probe	Details	Promo Price
2150199	MarSurf CD 140 AF	70 mm	With probe arm length 350 mm	Measuring force 4 mN to 30 mN, adjustable via software X-axis measuring speed: 0.1 mm/s to 10 mm/s X-axis positioning speed: 0.1 mm/s to 200 mm/s Does not include commissioning or travel expenses	\$24,900
2192105	MarSurf CD 140 AF (including roughness option)	70 mm	With probe arm length 350 mm	Measuring force 4 mN to 30 mN, adjustable via software X-axis measuring speed: 0.1 mm/s to 10 mm/s X-axis positioning speed: 0.1 mm/s to 200 mm/s Does not include commissioning or travel expenses	\$29,600

