

Mahr® | Precision measurement and solutions

2nd Edition

# Mahrlights

>80x

Integrated Wireless products



>6 meters

freedom of movement

September 20<sup>th</sup> - December 31<sup>st</sup>

2021

# Comprehensive product range with Integrated Wireless

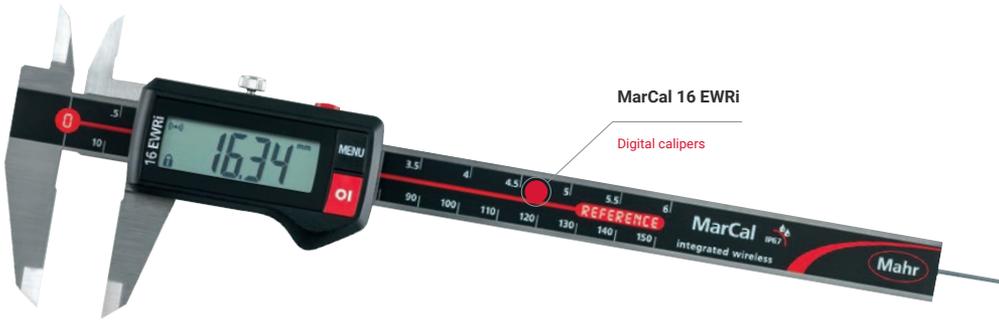
Mahr offers a comprehensive range of measuring instruments with Integrated Wireless data transmission for use in all areas of industrial manufacturing and quality control. The Integrated Wireless product range from Mahr delivers accurate measuring results with full mobility. Modern, simple measuring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

3

Product groups

80

Products



MarCal 16 EWRI

Digital calipers



MarCal 18 EWRI

Digital workshop calipers



MarCal 25 EWRI

Digital universal calipers



MarCal 30 EWRI

Digital depth gages



Micromar 40 EWRI

Digital outside micrometers



Micromar 40 EWRI-L

Digital outside micrometers with quick-drive spindle



MarCator 1087 Ri

Digital dial indicators

MarCator 1086 Ri with stand

Digital dial indicators



MarCator 1086 Ri

Digital dial indicators

MarCator 1087 Ri with Precimar SM 60

Digital dial indicators



MarCator 1086 Ri with 3-point pistol

Digital dial indicators

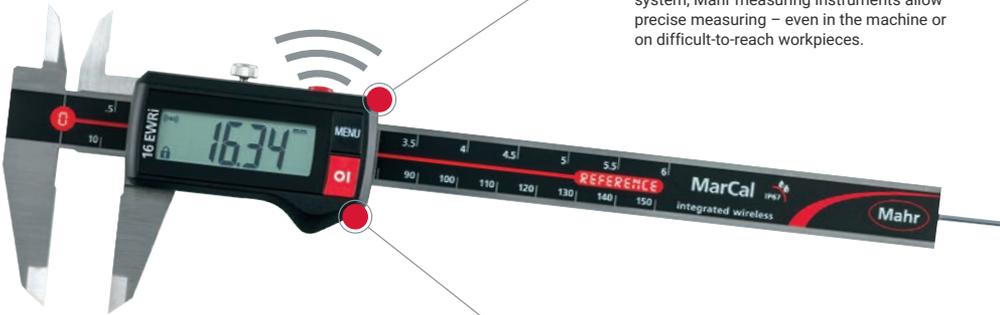


# Best performance in every step

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 allows for faster and more specific measurements and offers 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 hazards 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.

# MarCal | Digital calipers

Integrated Wireless – conveniently transmit data

4103401

**\$220**

4112571

**\$806**

**Larger measuring capabilities**

4126751

**Compact and handy**

always within reach

4126755

**\$402**

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	\$275	\$220
4103403	16 EWRI	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	IP67, with Integrated Wireless thumbwheel	\$275	\$220
4112571	18 EWRI	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in		IP65, with Integrated Wireless	\$896	\$806
4112572	18 EWRI	0 - 500 mm / 0 - 20 in	0.01 mm / 0.0005 in		IP65, with Integrated Wireless	\$1,160	\$1,044
4112573	18 EWRI	0 - 750 mm / 0 - 30 in	0.01 mm / 0.0005 in		IP65, with Integrated Wireless	\$1,550	\$1,395
4112574	18 EWRI	0 - 1000 mm / 0 - 40 in	0.01 mm / 0.0005 in		IP65, with Integrated Wireless	\$1,880	\$1,692
4126755	30 EWRI	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$502	\$402
4126754	30 EWRI	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$557	\$446
4126756	30 EWRI	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$663	\$530
4126751	30 EWRI	0 - 25 mm / 0 - 1 in	0.01 mm / 0.0005 in		IP67, with Integrated Wireless	\$384	\$307

Accessories for Measuring Instruments with Integrated Wireless							
4102220	I-Stick	Wireless receiver for measuring instruments with Integrated Wireless				\$105	\$84

# MarCal | Digital calipers

Digital with reference system – a reliable choice

The standard

in the workshop



4103011

\$117

\$173



4103301

The impervious

for production and 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	\$146	\$117
4103013	16 ER	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	With thumbwheel	\$146	\$117
4103205	16 ER	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	Square		\$234	\$187
4103207	16 ER	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in			\$349	\$279
4103301	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Round	IP67, with thumbwheel	\$216	\$173
4103303	16 EWR	0 - 150 mm / 0 - 6 in	0.01 mm / 0.0005 in	Square	IP67, with thumbwheel	\$216	\$173
4103304	16 EWR	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	Square	IP67	\$296	\$237
4103306	16 EWR	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in		IP67	\$418	\$334

## MarCal | 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	\$525	\$420
4126699	30 EWR	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	IP67, with data output	\$579	\$463
4126701	30 EWR	0 - 300 mm / 0 - 12 in	0.01 mm / 0.0005 in	IP67, with data output	\$606	\$485

## MarCal | Digital universal calipers

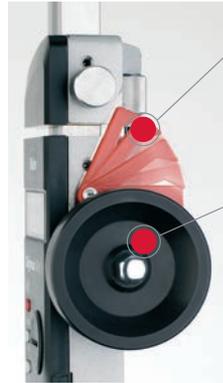
Reliable and robust



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		\$697	\$592
4118907	30 EWRi-V	0 - 200 mm / 0 - 8 in	0.01 mm / 0.0005 in	Rectangular	X	\$786	\$668



**\$687**



**Clamping lever**

for quickly securing the slide unit

**Handwheel**

for easy positioning and measuring

4426100

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	\$808	\$687
4426101	814 SR	0 - 600 mm / 0 - 24 in	0.01 mm / 0.0005 in	Digit height 12 mm, handwheel for positioning and measuring	\$1,230	\$1,046

# Micromar | Digital micrometers

The choice is yours: data output or Integrated Wireless



**\$198**



**\$258**



**\$345**

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		\$233	\$198
4157011	40 EWR	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65	\$303	\$258
4157012	40 EWR	25 - 50 mm / 1 - 2 in	0.001 mm / 0.0005 in	IP65	\$418	\$355
4157100	40 EWRI	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless	\$406	\$345
4157101	40 EWRI	25 - 50 mm / 1 - 2 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless	\$487	\$414
4157115	40 EWRI	0 - 100 mm / 0 - 4 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, 4 micrometers in set	\$2,210	\$1,879
4157120	40 EWRI-L	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, quick adjustment	\$502	\$427
4157121	40 EWRI-L	25 - 50 mm / 1 - 2 in	0.001 mm / 0.0005 in	IP65, Integrated Wireless, quick adjustment	\$574	\$488
4157020	40 EWR-L	0 - 25 mm / 0 - 1 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	\$468	\$398
4157021	40 EWR-L	25 - 50 mm / 1 - 2 in	0.001 mm / 0.0005 in	IP65, data output, quick adjustment	\$529	\$450

### Accessories for Measuring Instruments with Integrated Wireless

4102603	DK-U1	Bidirectional USB data cable with power supply, for micrometers only	\$239	\$191
4102606	DK-D1	Digimatic data cable	\$207	\$166
4102220	i-Stick	Wireless receiver for measuring instruments with Integrated Wireless	\$105	\$84

# Micromar 844 A | Self-centering measuring pistol

Offers long measuring range with fixed anvils



4487762

**\$3,080**



Self-centering bore gage kit



Order No.	Product	Measuring Range	Number of Measuring Heads	Ring Gages	List Price	Promo Price
4487760	1086 R	6 - 12 mm / 0.25 - 0.4725 in	3	8 mm, 10 mm	\$3,050	\$2,440
4487761	1086 R	12 - 20 mm / 0.4725 - 0.775 in	2	16 mm	\$2,880	\$2,304
4487762	1086 R	20 - 50 mm / 0.775 - 2.0 in	4	25 mm, 40 mm	\$3,850	\$3,080
4487763	1086 R	50 - 100 mm / 2 - 4 in	4	60 mm, 85 mm	\$4,980	\$3,984

Note: set includes extension 44 Av and 1086 indicator

## MarCator | ANSI/AGD Group 2 precision dial indicators

The standard of the industry for nearly 100 years



2014698

**\$195**



2011049

**\$180**

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	\$311	\$249
2011049	0.250 in	0.001 in	0-100	0.100 in	\$225	\$180
2014699	0.500 in	0.001 in	0-100	0.100 in	\$244	\$195
2014698	1.000 in	0.001 in	0-100	0.100 in	\$244	\$195

## MarStand 820 NG / 820 FG | Indicator stand with granite base

Can reach any position within its operating range



4430100

**\$459**

Order No.	Model	Working Range	Fine Adjustment	Mounting Hole	List Price	Promo Price
4430100	820 NG	0 - 130 mm / 0 - 5.1 in		8H7	\$574	\$459
4430110	820 NG	0 - 130 mm / 0 - 5.1 in		3/8 in	\$574	\$459
4431100	820 FG	0 - 130 mm / 0 - 5.1 in	•	8H7	\$939	\$751
4431110	820 FG	0 - 130 mm / 0 - 5.1 in	•	3/8 in	\$939	\$751

Note: Indicator sold separately



4336010



**\$178**



4337697



**\$570**



4337624



**\$433**



4337620



**\$379**

**\$522**



4337663



**\$704**



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	\$222	\$178
4336020	1075 R	12.5 mm / 0.5 in	0.005 mm / 0.0001 in	LOCK function	\$278	\$222
4336030	1075 R	12.5 mm / 0.5 in	0.001 mm / 0.00005 in	LOCK function	\$384	\$307
4337620	1086 R	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function	\$474	\$379
4337621	1086 R	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function	\$574	\$459
4337697	1086 R-HR	12.5 mm / 0.5 in	0.0001 mm / 0.000010 in	ABS, LOCK, TOL function, high resolution	\$713	\$570
4337660	1087 R	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min	\$586	\$469
4337661	1087 R	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min	\$680	\$544
4337695	1087 R-HR	12.5 mm / 0.5 in	0.0001 mm / 0.000010 in	ABS, LOCK, TOL function, high resolution	\$880	\$704
4337624	1086 Ri	12.5 mm / 0.5 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Integrated Wireless	\$541	\$433
4337625	1086 Ri	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Integrated Wireless	\$641	\$513
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	\$652	\$522
4337665	1087 Ri	25 mm / 1 in	0.0005 mm / 0.000020 in	ABS, LOCK, TOL function, Max/Min/Max-Min, Integrated Wireless	\$724	\$579

Accessories for Measuring Instruments with Integrated Wireless and Data Cable Connection						
4102606	DK-D1	Digimatic data cable			\$207	\$166
4102220	t-Stick	Wireless receiver for measuring instruments with Integrated Wireless			\$105	\$84

## Millimess® | Dial comparators

High precision and extreme robustness



1003 Z

**\$242**

4334900

Order No.	Model	Measuring Range	Readings	Details	List Price	Promo Price
4334000	1003	± 50 µm	1 µm	High sensitivity and accuracy	\$302	\$242
4334900	1003 Z	± 0.002 in	0.00005 in	High sensitivity and accuracy	\$302	\$242
4332000	1010	± 0.25 mm	0.01 mm	High sensitivity and accuracy	\$281	\$225
4332900	1010 Z	± 0.010 in	0.0005 in	High sensitivity and accuracy	\$281	\$225

## MarTest® | Test indicators for high accuracy measurement

Ensures maximum precision

**\$110**

4305960



801 S1



801 SGI

**\$116**

4307970



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	\$138	\$110
4307950	801 SG	± 0.015 in	0.0005 in	1.5 in	0.57 in	\$166	\$133
4307970	801 SGI	± 0.3 mm / 0.015 in	0.01 mm / 0.0005 in	1.5 in	0.57 in	\$145	\$116
4305200	800 S	± 0.4 mm	0.01 mm	28 mm	14.5 m	\$123	\$111
4307200	800 SG	± 0.4 mm	0.01 mm	38 mm	14.5 m	\$129	\$116



5312012

\$1,120

\$395

5323010



\$1,024

5313180



Order No.	Product	Numerical Display	Resolution	Details	List Price	Promo Price
5312012	Millimar C 1200	± 5000 µm	0.1 µm	High resolution, high contrast TFT color display	\$1,400	\$1,120

Order No.	Product	Measuring Range	Measuring Force	Details	List Price	Promo Price
5323010	P2004 M	± 2 mm	0.75 N	Measuring pin mounted in ball bearing guide	\$494	\$395
5313180	1318	-0.3 ... 1 mm	0.25 ± 0.05 N	Dial test indicator inductive probe	\$1,280	\$1,024

# Millimar N 1700

All RS-485 bus modules in the Millimar N 1700 series can be combined individually with one another. The modules are suitable for connection to all measuring probe types in the Mahr portfolio and can transmit up to 4,189 values per second to the software. The high data transmission rates reduce measurement uncertainties dramatically and enable highly dynamic measurements to be carried out.

- Individually combinable modules
- Synchronous data retrieval from any number of connected devices
- Connect all compatible probe types using one module
- Static, dynamic or multi-point measurement



**Sample application:** Millimar modules with industrial PC with Mahr Cockpit gaging software

**\$469**



N 1702 M  
5331120



N 1704 M  
5331140



N 1701 USB  
5331130



N 1701 PS  
5331133



N 1704 I/O  
5331134

Order No.	Product	Details	List Price	Promo Price
5312801	C1700 PC	Dynamic function: MAX, MIN, MAX-MIN, MAX+MIN, 1 signal sharing computer with Cockpit	\$3,730	\$3,171
5312865	Cockpit software	Dynamic function: MAX, MIN, MAX-MIN, MAX+MIN, Cockpit Software Marwin 13	\$1,200	\$1,020
5331120	N 1702 M	Induction probe module, 2 Mahr LVDT, range $\pm 1 \text{ mm}$ , $\pm 2 \text{ mm}$ , $\pm 5 \text{ mm}$ / $\pm 0.040 \text{ in}$ , $\pm 0.080 \text{ in}$ , $\pm 0.2 \text{ in}$	\$552	\$469
5331140	N 1704 M	Induction probe module, 4 Mahr LVDT, range $\pm 1 \text{ mm}$ , $\pm 2 \text{ mm}$ , $\pm 5 \text{ mm}$ / $\pm 0.040 \text{ in}$ , $\pm 0.080 \text{ in}$ , $\pm 0.2 \text{ in}$	\$857	\$728
5331130	N 1701 USB	USB connection module, 430 ma	\$206	\$175
5331133	N 1701 PS	Power supply module, 2000 ma	\$275	\$234
5331134	N 1704 I/O	Input/output module, 4 inputs / 4 outputs, 10 - 30 v, lamp /channel	\$384	\$326
5331155	N 1700 PF	Module for Mahr Federal air tool 2500:1 / 5000:1 in, $\pm 76.5 \mu\text{m}$ / $\pm 0.0015 \mu\text{in}$	\$880	\$748
2258471	Air kit	Air filter regulator kit for up to 3 air modules	\$366	\$311
4102058	Foot switch	Foot switch to trigger data transmission	\$144	\$122

# MarSurf M 400 with magnetic probe holder system

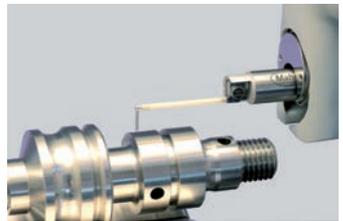
Both in the measuring room and production area, there is a need for surface evaluations requiring skidless tracing. This generally requires more highly skilled operators, time and adjustment work. Within the mobile surface metrology line, the MarSurf M 400 provides the necessary range of functions, while being quick and easy to use at the same time.

- Mobile and stationary measuring instrument
- Roughness and waviness measurements
- Traversing lengths up to 26 mm
- Over 50 R, W and P surface parameters
- Automatic choice of cut-off and traversing length in accordance with standard
- Dynamic calibration function
- Cable and Bluetooth connection between drive unit and evaluation instrument (4 m)
- Magnetic probe holder (breakaway probe) BFW 250
- Motorized probe zero setting (max. 7.5 mm)

**\$8,180**



6910404



**BFW probe system with magnetic  
probe arm holder**

Order No.	Product	Measuring Range	Probe	Details	List Price	Promo Price
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)	\$9,975	\$8,180

# 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.

**\$18,630**



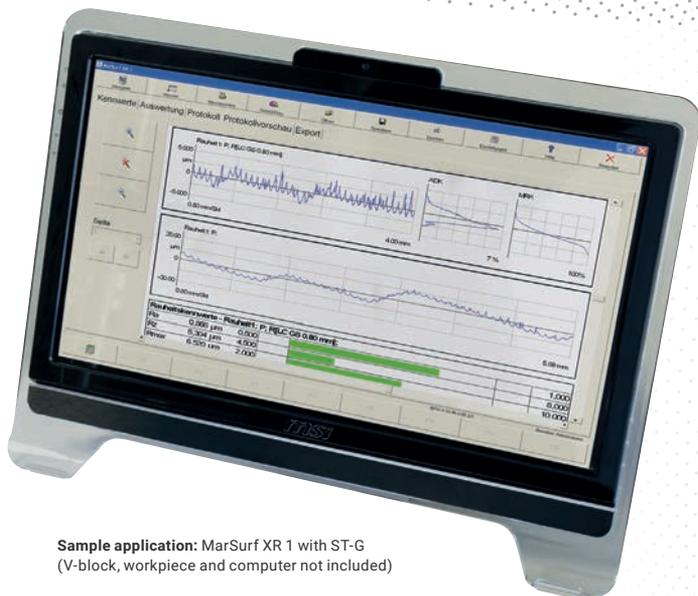
9056373

## 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 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	\$18,630

*Note: Installation and training are not included and will be quoted upon request*

# 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

\$24,840



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	\$24,840

*Note: Installation and training are not included and will be quoted upon request*

# 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

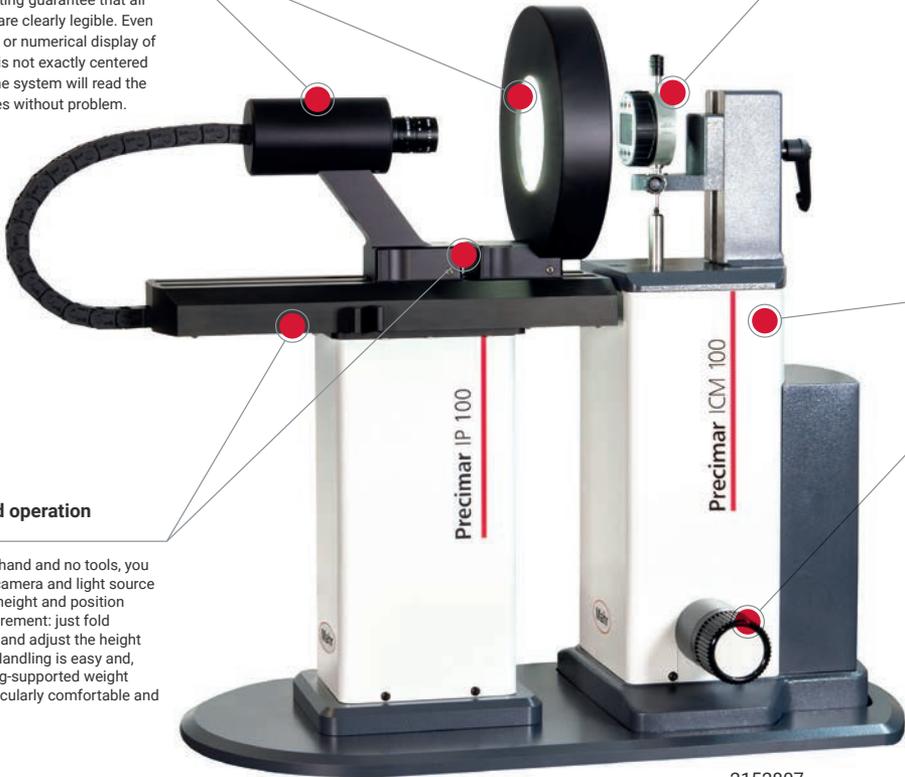
## Fast and reliable data collection

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 is not exactly centered in the image, the system will read the displayed values without problem.

**\$32,310**

## 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.

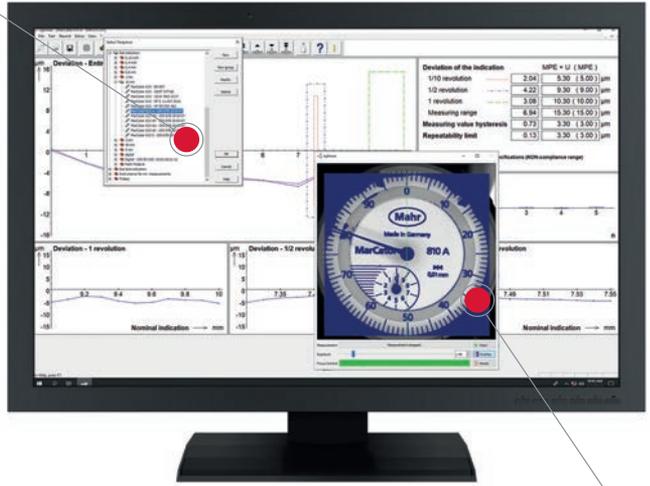


2152807

(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 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 excludes installation	€32,310

Upgrade Kit Accessories					
5351050	For Precimar Optimar 100 (5320005)			Price excludes installation	Request
5351060	For Precimar ICM 100 (5351000)			Price excludes installation	Request
5351070	For Precimar ICM 100 (5351005)			Price excludes installation	Request

# Precimar | Length measuring bench

Robust construction makes it suitable for use in production



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 ø 60 mm / 2.36 in, mass 9 kg	\$3,160	\$2,528



**MarCator 1086 R**

Order number: 4337625



**MarCator 1087 Ri**

Order number: 4337665



**MarCator 1086 R-HR**

Order number: 4337698



**Millimar C 1200**

Order number: 5312012



**Millimar P 2004 M**

Order number: 5323010

## Additional 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	\$574	\$459
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	\$641	\$513
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	\$680	\$544
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	\$724	\$579
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	\$780	\$624
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	\$950	\$760
5312012	Millimar C 1200	±5.0000 mm / ±0.194 in	10 µm, 1 µm, 0.1 µm / 100 µin, 10 µin, 5 µin	\$1,400	\$1,120
5323010	Millimar P 2004 M	± 2 mm / ± 0.080 in	-	\$494	\$395

## MarForm® | Form measuring machine

Compact design for use on workbench 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

- 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

2185912

**\$13,999**

# 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.

**\$26,600**



2185936

## 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	\$13,999
2185936	MarForm MMQ 150	MarForm MMQ 150 includes T20W measuring probe and all-in-one computer	\$26,600
5480310	MarWin 13 EasyForm	Software package	Included
2185767	Scroll chuck	Scroll chuck Ø 100 mm with flange	\$1,224

Note: Installation and training are not included and will be quoted upon request

**Millimar** | New from the Millimar family

Measuring probes and evaluation instruments



**New product: Millimar C 1202**

Programmable measuring sequences,  
dynamic and static measuring tasks and  
perfect visualization



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