

SMAHRT INNOVATIONS AT A SPECIAL PRICE

• SMAHRT TOOLS. Large operating range thanks to Integrated Wireless

- Millimar. The efficient and user-friendly way to evaluate measuring data
- MarSurf. Simple and intuitive to use

This is what we mean by **EXACTLY**.



MARCONNECT. WIRELESS DEVICES FOR MORE MEASURING CONVENIENCE

Integrated wireless systems for ease of use.

Integrated innovative wireless technology

Mahr's wireless devices with integrated wireless transmitter are designed for user-friendly, practical and cost-effective use in your factory. They will make your measurement recording processes much faster and more efficient.

1634

Best ergonomics

Unlike conventional wireless solutions, which have a large external transmitter with separate battery, the transmitter in Integrated Wireless is fully integrated into the measuring instruments.

Reliable transmission

With Integrated Wireless you can be sure that your data will arrive safely. Measuring instruments with Integrated Wireless display messages to confirm whether the transmitted data has been correctly transferred or whether they are within receiving range of the iStick receiver.





Highly mobile

Mahr

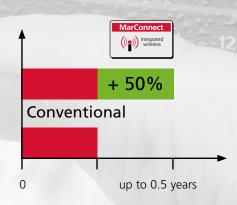
Integrated Wireless gives you much more **mobility**. There is no cable to get in the way when using dial gauges in displaying measuring instruments when measuring on or at the machine or with large workpieces.

All illustrations and technical data are without guarantee. All prices shown are recommended retail prices. Prices are net £, excluding VAT and are valid from 15 September 2018 until 31 October 2018

| Brogramm Messgerätt | Beschreibung Greit Anschlumkabel | Messwert | Anforderung Ziel |
|---------------------|-------------------------------------|----------|-------------------------------------------------|
| REI | RF1 HaCata MB2R | a 10.001 | Teste: F3 Exact: Kathelwolle xit/Tobelle3/1, |
| RFZ | FIF2 MaCator 1087R RF 01082 | 49.999 | Excel: Kurbelweile xil/Tabelle 3/2. |
| | | | |

Easy data transmission

With Integrated Wireless you can transfer your **measured values to the PC simply using the iStick**. As with a data cable, the measured values are accepted via the MarCom software directly into MS Excel or via a keyboard code into any Windows application.



Long battery life

The integrated wireless interface makes the measuring instruments exceptionally energy-efficient. And unlike conventional wireless systems, no additional battery is required.

Inexpensive

With Integrated Wireless you can connect up to 8 measuring instruments per iStick receiver. Expensive interface boxes are no longer necessary. With even one connected dial gauge you get a wireless connection for the price of a cable. You can download the MarCom Professional software free of charge at: www.mahr.com/marcom



MARCAL. THE WIRELESS CALIPER

With the MarConnect system you will always have the optimal connection to all evaluation systems – either via integrated wireless or data cable. Mahr's Reference System makes the caliper easier to handle. Thanks to the high degree of protection IP67, the MarCal 16 EWRi is perfect for use in the harshest conditions.

MarCal 16 EWRi STARTER PACK

Digital caliper with integrated wireless





Functions: ON/OFF, AUTO-ON/OFF, HOLD (storage of measured values), RESET (set display to zero), PRESET (enter a numerical value), mm/inch, Reference System, LOCK function (key lock), DATA (data transmission)

- Integrated wireless transmitter
- Ready to measure immediately thanks to the reference system
- Excellent resistance to dust, coolants and lubricants: Protection rating IP67
- Power supply: Battery life approx. 3 years (approx. 0.5 years in wireless mode)
- Lapped guideways
- Slide and beam made of hardened stainless steel
- Software: MarCom Professional is free to download: www.mahr.com/marcom



| Product | Measuri | ng range | Resolution | Depth rod Details | | Details | Order no. | List price | Offer price |
|---------|---------|----------|------------|-------------------|---|-----------------------------------------------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | <u></u> | T | | | £ | £ |
| 16 EWRi | 0 –150 | (6") | 0.01/.0005 | • | | Starter Pack: incl. i-stick wireless receiver | 9105795 | 283.05 | 212.00 |
| 16 EWRi | 0 –150 | (6") | 0.01/.0005 | | • | and MarCom Professional | 9105796 | 283.05 | 212.00 |

MarCal 16 EWRi

Digital caliper with integrated wireless



16 EWRi excluding i-Stick wireless receiver. Features as above.



| Product | Measuri | ng range | Resolution | Deptl | h rod | Details | Order no. | List price | Offer price |
|---------|---------|----------|------------|-------|-------|---------------------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | | 7 | | | £ | £ |
| 16 EWRi | 0 - 150 | (6") | 0.01/.0005 | • | | Data interface: | 4103400 | 199.35 | 179.00 |
| 16 EWRi | 0 - 150 | (6") | 0.01/.0005 | | • | Integrated Wireless | 4103402 | 199:35 | 179.00 |

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MARCATOR THE WIRELESS DIAL GAUGE

With our highly precise digital dial gauges featuring the MarConnect system you will always have the optimal connection to all evaluation systems – either via integrated wireless or data cable. Mahr's reference system makes the digital dial gauge easier to handle.

MarCator 1086 Ri Digital Dial Gauges

Resolution from 0.5 µm and tolerance display





Functions: ON/OFF, RESET (set display to zero), mm/inch, reversal of counting direction, PRESET (enter a numerical value), TOL (enter tolerance limit values), ABS (display can be set to zero, without losing the reference to the preset value), DATA (data transmission via connection cable), factor (adjustable), LOCK (lock individual keys)

- High contrast LCD
- Operating and display unit (bezel) can be rotated 280°
- Lifter protection cap on end of measuring pin
- Ready to measure immediately thanks to the reference system
- Power supply: Battery life approx. 3 years
- Software: MarCom Professional is free to download: www.mahr.com/marcom

MarCator 1087 Ri Digital Dial Gauges

Resolution from 0.5 µm and dynamic max/min functions



Additional functions of MarCator 1087 Ri MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test MAX/MIN memory for reversing point search, TR (MAX-MIN) for radial runout and flatness test

| Product | Measuri | ng range | Resolution, switchable | Details | Order no. | List price | Offer price |
|---------|---------|----------|---------------------------|---------------------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | | | £ | £ |
| 1086 Ri | 12.5 | (.5") | 0.0005/0.001/0.002/0.005/ | Data interface: | 4337624 | 364.50 | 310.00 |
| 1086 Ri | 25 | (1") | 0.01 mm | Integrated Wireless | 4337625 | 413.10 | 351.00 |
| 1087 Ri | 12.5 | (.5") | (.00002"/.00005"/.0001"/ | Data interface: | 4337663 | 427.50 | 363.00 |
| 1087 Ri | 25 | (1") | .0002"/.0005") | Integrated Wireless | 4337665 | 483.30 | 411.00 |

i-stick wireless receiver, see page 7

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MICROMAR. THE WIRELESS MICROMETER CALIPER

The **Micromar 40 EWRi** digital micrometer caliper with Integrated Wireless gives you much more mobility. Waterproof precision for reliable measuring results under the harshest factory conditions.

Micromar 40 EWRi

Digital micrometers with integrated wireless



Functions: RESET (set display to zero), ABS (set display to zero without the reference to the ORIGIN being lost), mm/inch, ORIGIN (enter a numerical value), LOCK function (key lock), TOL (input of tolerance and warning limits), DATA (data transmission), HOLD (storage of measured values)

- High contrast display
- Spindle is made from stainless steel, hardened and ground
- Spindle and anvil are carbide tipped
- Rapid drive
- Ratchet operation
- Hard lacquered steel frame, heat insulated
- Digit height: 10 mm
- Data interface: Integrated Wireless
- Software: MarCom Professional is free to download: www.mahr.com/marcom



i-stick wireless receiver, see page 7

| Product | Measurin | g range | Resolution | Spindle thread pitch | Details | Order no. | List price | Offer price |
|-------------|----------|----------|----------------|----------------------|----------------------------------------|-----------|------------------------|-------------|
| | mm | (inch) | mm/inch | mm | | | £ | £ |
| 40 EWRi | 0 –25 | (0 –1 ") | 0.001/.00005 | 0.5 | Data interface: | 4157100 | 240.30 | 228.00 |
| 40 EWRi | 25 – 50 | (1 –2 ") | 0.001/.00005 | 0.5 | Integrated Wireless | 4157101 | 283.50 | 269.00 |
| 40 EWRi Set | 0 -100 | (0 –4") | 0.001 / .00005 | 0.5 | Data interface: Integrated Wireless | 4157115 | _ 1,278 .00 | 1,214.00 |

i-stick wireless receiver, see page 7

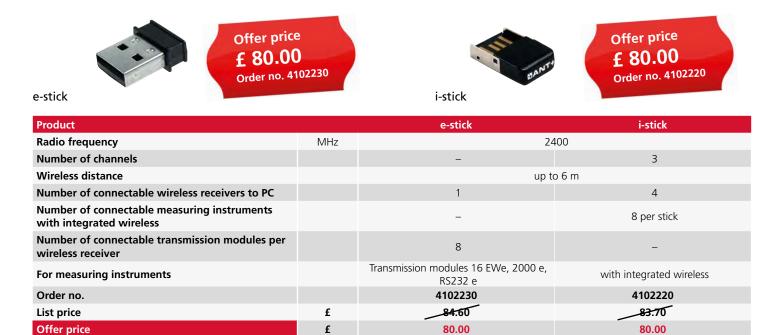
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MARCONNECT. THE CUTTING EDGE IN DATA TRANSMISSION

In modern production it is imperative that measuring results are recorded and evaluated accurately. These results are not only valuable benchmarks for assessing products, but they can also be used to evaluate and optimize production processes within Six Sigma and SPC. Mahr sets high standards with its **up-to-date wireless data transmission solutions**. **Simple, reliable and professional**.

MarConnect e-stick and i-stick Wireless Receivers

Wireless receiver for measuring instruments with integrated wireless and handheld measuring instruments with data interface



MarConnect 16 EWe Transmission Module

The transmission module for all Mahr handheld measuring instruments with wired data interfaces



| Product | | 16 EWe |
|---------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmission module for e-stick | | MarCal 16 ER, 16 EWR, 16 EWV, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR, 40 EWS, 40 EWV, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR MarSurf PS1, PS10 |
| Order no. | | 4102231 |
| List price | £ | |
| Offer price | £ | 254.00 |

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MARCAL. THE REFERENCE CALIPER

Mahr's **Reference System** has made the caliper much **easier and more convenient** to handle as the zero position only has to be set once and the setting is stored for all further measurements. Due to the high **degree of protection IP67**, the MarCal 16 EWR is protected against dust, coolants and lubricants and is therefore **ideal for use in the harshest conditions**.

MarCal 16 ER Digital Caliper

With large digital display





Functions:ON/OFF, AUTO-ON/OFF, RESET (set display to zero), mm/ inch, Reference System, LOCK function (key lock)

- Ready to measure immediately thanks to the reference system
- Power supply: Battery life approx. 3 years
- Lapped guideways
- Slide and beam made of hardened stainless steel

| Product | Measuri | ng range | Resolution | Dept | h rod | Height of digits | Order no. | List price | Offer price |
|---------|---------|----------|------------|------|-------|------------------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | | Ţ | mm | | £ | £ |
| 16 ER | 0 - 150 | (6") | 0.01/.0005 | • | | 11 | 4103010 | 100.80 | 76.00 |
| 16 ER | 0 - 150 | (6") | 0.01/.0005 | | • | 11 | 4103012 | 100.80 | 76.00 |
| 16 ER | 0 - 200 | (8") | 0.01/.0005 | | • | 11 | 4103205 | 158.40 | 127.00 |
| 16 ER | 0 - 300 | (12") | 0.01/.0005 | | | 11 | 4103207 | 198.00 | 158.00 |

MarCal 16 EWR Digital Caliper

Excellent protection against dust, coolants and lubricants





Functions: ON/OFF, AUTO-ON/OFF, RESET (set display to zero), mm/ inch, Reference System, LOCK function (key lock)

- Ready to measure immediately thanks to the reference system
- Excellent resistance to dust, coolants and lubricants: Protection rating IP67
- Power supply: Battery life approx. 3 years
- Lapped guideways
- Slide and beam made of hardened stainless steel

| Product | Measuring range Resolution | | Resolution | Depth rod | | Height of digits | Order no. | List price | Offer price |
|---------|----------------------------|--------|------------|-----------|---|------------------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | | F | mm | | £ | £ |
| 16 EWR | 0 - 150 | (6") | 0.01/.0005 | • | | 11 | 4103300 | _150.30 | 113.00 |
| 16 EWR | 0 - 150 | (6") | 0.01/.0005 | | • | 11 | 4103302 | 150:30 | 113.00 |
| 16 EWR | 0 - 200 | (8") | 0.01/.0005 | | • | 11 | 4103304 | 207.00 | 176.00 |
| 16 EWR | 0 - 300 | (12") | 0.01/.0005 | | | 11 | 4103306 | 280.80 | 225.00 |

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MarCal 30 EWR Digital Depth Gauge

For measuring deep down





Functions: ON/OFF, AUTO-ON/OFF, RESET (set display to zero), PRESET (enter a numerical value), mm/inch, Reference System, LOCK function (key lock), DATA (in conjunction with data cable)

- Ready to measure immediately thanks to the reference system
- Excellent resistance to dust, coolants and lubricants: Protection rating IP67
- Power supply: Battery life approx. 3 years
- Lapped guideways
- Slide and beam made of hardened stainless steel

MarCal 30 EWR-D Digital Depth Gauge

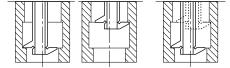
For your special applications



Features same as MarCal 30 EWR



Measuring groove widths and distances between grooves



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Mahr

| Product | Measuring range | | Resolution | Data output | Order no. | List price | Offer price |
|----------|-----------------|--------|------------|-------------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | | | £ | £ |
| 30 EWR | 0 – 150 | (6") | 0.01/.0005 | • | 4126700 | 312.30 | 250.00 |
| 30 EWR | 0 -300 | (12") | 0.01/.0005 | • | 4126701 | 409.50 | 328.00 |
| 30 EWR-D | 0 -200 | (8") | 0.01/.0005 | • | 4126523 | 475.20 | 380.00 |
| 30 EWR-D | 0 -300 | (12") | 0.01/.0005 | • | 4126524 | 604.80 | 484.00 |

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THE CLASSICS

High-quality calipers and micrometers are some of the most fundamental measuring instruments in production and quality control because they are both versatile and easy to use. Measuring instruments with line scales set themselves apart thanks to their unchangeable measuring system and ease of use. These analog measuring instruments can be used anytime and anywhere.

MarCal 16 FN Caliper with Scale Reading

The classic precision vernier caliper





- All reading parts have a glare free, satin chrome finish
- Slide and beam made of hardened stainless steel
- Measuring surfaces are made of hardened stainless steel
- Measuring blades for inside measurement
- Step measuring function
- Raised guideways to protect the scale

| Product | Measuring range | Vernier value | Vernier value | Error limit | Order no. | List price | Offer price |
|---------|-----------------|---------------|---------------|-------------|-----------|------------|-------------|
| | mm | mm | inch | mm | | £ | £ |
| 16 FN | 0 – 150 | 0.05 | 1/28 | 0.05 | 4100400 | 27.00 | 23.00 |
| 16 FN | 0 – 200 | 0.05 | 1/28 | 0.05 | 4100401 | 21.55 | 57.00 |
| 16 FN | 0 – 300 | 0.05 | 1/28 | 0.05 | 4100402 | 172.35 | 138.00 |

Micromar 40 A Micrometer Screw

The classic micrometer



- Operating and display units have a glare free, satin chrome finish
- Spindle and anvil are made of hardened steel, carbide tipped
- Heat insulators
- Rapid drive with integrated ratchet
- Locking device

| Product | Measuring range | Reading | Spindle thread pitch | Order no. | List price | Offer price |
|---------|-----------------|---------|----------------------|-----------|------------|-------------|
| | mm | mm | mm | | £ | £ |
| 40 A | 0 – 25 | 0.01 | 0.5 | 4134000 | 45.45 | 36.00 |

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Mahr

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DIN 863-1

MICROMAR. EVERYTHING REVOLVES AROUND PRECISION

Besides calipers, micrometers are the most frequently used hand measuring instruments. With precision ground spindles, carbide tipped measuring faces and a robust frame construction; the modern micrometer from the **Mahr Micromar series ensures maximum precision** and a **long working life**.

Micromar 40 ER Digital Micrometer

With simple one handed operation





- Ready to measure immediately thanks to reference system
- High contrast display, height of digits 10 mm
- Spindle is made from stainless steel, hardened and ground
- Rapid drive
- Ratchet operation
- Hard lacquered steel frame, heat insulated
- Power supply: Battery life approx. 2 years
- Package contents: Operating instructions, battery, setting standard (from measuring range 25–50 mm), case

Functions: AUTO-ON/OFF, RESET (set display to zero), mm/inch, HOLD, (storage of measured values), LOCK function (key lock)

| Product | Measuring range Resolution | | Spindle thread pitch | Protection class | | Order no. | List price | Offer price | |
|---------|----------------------------|-----------|----------------------|------------------|------|-----------|------------|-------------|--------|
| | mm | (inch) | mm/inch | mm | IP40 | IP65 | | £ | £ |
| 40 ER | 0 – 25 | (0 – 1 ") | 0.001/.00005 | 0.635 | • | | 4157010 | 140.85 | 127.00 |

Micromar 40 EWR Digital Micrometer

With simple one handed operation





- Ready to measure immediately thanks to reference system
- High contrast display, height of digits 10 mm
- Spindle is made from stainless steel, hardened and ground
- Rapid drive
- Ratchet operation
- Hard lacquered steel frame, heat insulated
- Power supply: Battery life approx. 2 years
- Package contents: Operating instructions, battery, setting standard (from measuring range 25–50 mm), case

Functions 40 EWR: same as 40 ER, however, in addition ABS (set the display to zero without the reference to the origin being lost), Origin (enter a numerical value)

| Product | Measurin | g range | Resolution | Spindle thread pitch | Protectio | on class | Order no. | List price | Offer price |
|---------|----------|-----------|--------------|----------------------|-----------|----------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | mm | IP40 | IP65 | | £ | £ |
| 40 EWR | 0 – 25 | (0 – 1 ") | 0.001/.00005 | 0.635 | | • | 4157011 | 184.50 | 166.00 |
| 40 EWR | 25 – 50 | (1 – 2 ") | 0.001/.00005 | 0.635 | | • | 4157012 | 250.20 | 213.00 |

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MARTEST. HIGHLY SENSITIVE MEASUREMENT

Since 1936 Mahr has been one of the world's leading suppliers of dial test indicator measuring devices. The sensitive computer-optimised mechanism ensures maximum security and precision. MarTest instruments are ideal for use in workshop conditions, with sealed dials ensuring liquid resistance.

MarTest 800 S / SG / SGE

Dial test indicator measuring device - standard version





- High contrast dial face, sealed with an O-Ring
- Satin chrome finished housing with 3 integrated dovetail guideways
- Shockproof mechanism
- Anti-magnetic model
- Automatic adjustment to the contacting direction ensuring infallible readings
- Ball-bearing mounted double lever, overload protection thanks to friction clutch
- Measuring anvil with carbide ball ø 2 mm

| Product | Measuring range | Reading | Dial diameter | Measuring anvil length | Order no. | List price | Offer price |
|-----------|-----------------|---------|---------------|------------------------|-----------|------------|-------------|
| | mm | mm | mm | mm | | £ | £ |
| 800 S | ± 0.4 | 0.01 | 28 | 14.5 | 4305200 | | 70.00 |
| 800 SG | ± 0.4 | 0.01 | 38 | 14.5 | 4307200 | | 71.00 |
| 800 SGE * | ± 0.7 | 0.001 | 38 | 9.15 | 4308220 | _146.70 | 132.00 |

* In-house standard

MarTest 800 SM / SGM / SL

Dial Test Indicator Measuring Device - for special measurements



• High contrast dial face, sealed with an O-Ring

- Satin chrome finished housing with 3 integrated dovetail guideways
- Shockproof mechanism
- Anti-magnetic model
- Automatic adjustment to the contacting direction ensuring infallible readings
- Ball-bearing mounted double lever, overload protection thanks to friction clutch

DIN

2270

SHOCK

PROOF

• Measuring anvil with carbide ball ø 2 mm

With hardened mineral glass, resistant to breakage and scratching

| Product | Measuring range | Reading | Dial diameter | Measuring anvil length | Order no. | List price | Offer price |
|----------|-----------------|---------|---------------|------------------------|-----------|------------|-------------|
| | mm | mm | mm | mm | | £ | £ |
| 800 SM | ± 0.1 | 0.002 | 28 | 14.5 | 4308150 | | 89.00 |
| 800 SGM | ± 0.1 | 0.002 | 38 | 14.5 | 4308200 | 109.80 | 99.00 |
| 800 SL * | ± 0.25 | 0.01 | 28 | 41.24 | 4306200 | 124.20 | 112.00 |

* In-house standard

MARCATOR POINTS YOU IN THE RIGHT DIRECTION

Due to their versatility, dial gauges rank as some of the most commonly used transducers. That is certainly the case with our MarCator series. Our mechanical dial gauges have **precision gears and pinions for maximum accuracy.** Also available in shockproof and waterproof versions.

MarCator 810 A Precision Dial Gauge

DIN 878

The classic indicator with a lifter protection cap



MarStand 815 MG Measuring Stand with Magnetic Base

Sale price

starting at

f 161.00

Simple one handle positioning

- 3D measuring stand, can reach any position within the operating range
- Easy to position, all three joints can been fixed into position with just one handle
- Maintenance-free mechanical clamping system
- Arm components are made of a high quality black anodized aluminium
- Dial gauge holder with 8 mm mount diameter and dovetail for dial test indicator measuring devices
- Equipped with micro adjustment, free of backlash
- Very powerful ON/OFF magnet
- Package contents: Excludes dial gauge

| Product | Fine adjustment range | Total height | Projection (max.) | Vee-block for shaft diameter | Magnetic force of vee-block | Order no. | List price | Offer price |
|---------|-----------------------|--------------|-------------------|------------------------------|--------------------------------|-----------|------------|-------------|
| | mm | mm | mm | mm | Ν | | £ | £ |
| 815 MG | | 224 | 130 | | 300 | 4420350 | 169.65 | 161.00 |
| 815 MG | 5 | 316 | 200 | 6 120 | 800 | 4420360 | 186.75 | 177.00 |
| 815 MG | | 401 | 280 | 6 - 120 | 800 | 4420370 | 226.80 | 204.00 |
| 815 MG* | 2 | 444 | 330 | | 1000 | 4420380* | 436.50 | 393.00 |

* Specifically designed for measuring instruments with µm resolution

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DIGITAL MEASUREMENT WITH MARCATOR

Our innovative range of digital dial gauges contain high precision electronic measuring systems, enabling a whole range of additional practical measuring functions. Simple to operate with a large, easy to read display, our digital dial gauges meet all the requirements of a modern measuring instrument. Quick and simple data processing ensures results are available when you need them.

MarCator 1075 R Digital Dial Gauge

With large display





Functions: ON/OFF, RESET (set display to zero), mm/inch, reversal of counting direction, PRESET (enter a numerical value), DATA (data transmission via connection cable), LOCK function (key lock), AUTO-ON/OFF

- High contrast LCD
- Protection cap on end of measuring pin
- Power supply: Battery life approx. 3 years

| Product | Measuring range | | Measuring range | | Resolution | Details | Order no. | List price | Offer price |
|---------|-----------------|--------|-----------------|---------------------|------------|---------|-----------|------------|-------------|
| | mm | (inch) | mm/inch | | | £ | £ | | |
| 1075 R | 12.5 | (.5") | 0.01/.0005" | | 4336010 | 135.90 | 109.00 | | |
| 1075 R | 12.5 | (.5") | 0.005 / .0001 " | Digit height: 12 mm | 4336020 | 184.50 | 138.00 | | |
| 1075 R | 12.5 | (.5") | 0.001/.00005" | | 4336030 | 274.50 | 220.00 | | |

$\label{eq:marcator} \textbf{MarCator} \ 1086 \ R \ \text{Digital Dial Gauge}$

Resolution from 0.5 μm and tolerance display



Tolerance display with measurement value display.



Tolerance display without measurement value display.





Functions: ON/OFF, RESET (set display to zero), mm/inch, reversal of counting direction, PRESET (enter a numerical value), TOL (enter tolerance limit values), ABS (display can be set to zero, without losing the reference to the preset value), <0> (tolerance GO / NO GO display mode), DATA (data transmission via connection cable), factor (adjustable), LOCK (lock individual keys)

• High contrast LCD

- Operating and display unit (bezel) can be rotated 280°
- Lifter protection cap on end of measuring pin
- Ready to measure immediately thanks to the reference system
- Power supply: Battery life approx. 3 years

| Product | Measuring range | | Resolution, switchable | Details | Order no. | List price | Offer price |
|---------|-----------------|-------|---------------------------------------------------|---------|-----------|------------|-------------|
| | mm (inch) | | mm (inch) | | | £ | £ |
| 1086 R | 12.5 | (.5") | 0.01 / .0005 " | | 4337130 | _256.50 | 218.00 |
| 1086 R | 12.5 | (.5") | 0.0005 / 0.001 / 0.002 / 0.005 / 0.01 mm | | 4337620 | | 269.00 |
| 1086 R | 25 | (1") | (.00002" / .00005" / .0001" / .0002" / .0005") | | 4337621 | | 321.00 |

MarCator 1087 R Digital Dial Gauges

Resolution from 0.5 μm and dynamic max/min functions

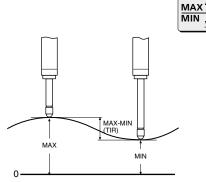




Functions: ON/OFF, RESET (set display to zero), mm/inch, reversal of counting direction, PRESET (enter a numerical value), TOL (enter tolerance limit values), MAX/MIN memory for reversing point search, TIR (MAX-MIN) for testing radial runout and flatness, ABS (display can be set to zero without losing reference to preset), DATA (data transmission via connection cable), factor (adjustable), LOCK (lock individual keys)

- High contrast LCD
- Operating and display unit (bezel) can be rotated 280°
- Lifter protection cap on end of measuring pin
- Ready to measure immediately thanks to the reference system
- Power supply: Battery life approx. 3 years





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Mahr

| Product | Measuring range | | Resolution, switchable | Details | Order no. | List price | Offer price |
|---------|-----------------|--------|---------------------------------------------------|---------|-----------|------------|-------------|
| | mm | (inch) | inch) mm/inch | | | £ | £ |
| 1087 R | 12.5 | (.5") | 0.0005 / 0.001 / 0.002 / 0.005 / 0.01 mm | | 4337660 | 397.80 | 338.00 |
| 1087 R | 25 | (1") | (.00002" / .00005" / .0001" / .0002" / .0005") | | 4337661 | 453.60 | 386.00 |

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AIM HIGH

Digimar height measuring instruments guarantee the ultimate in flexibility and quality control. Our motorized Digimar height measuring instruments are **simple to operate**; all the basic functions **can be executed** with a single key, offering **ease of use and accuracy**.

Digimar 816 CL Height Measuring Instrument

Perfect for accurate measurements in the production environment



| Sale price starting at a start a start a starting at a starting at a starting at a | Contacting from below and above Width between ledge and/or distance between a groove incl. centre of the ledge and/or groove Diameter of a bore hole and/or shaft incl. centre of the bore hole and/or shaft Reversal point of a bore hole / shaft (above and/or below) Calculate distances and/or symmetry Dynamic measuring functions Measuring program Process measured data Operating and display unit: Easy to read backlit graphic LCD Clear function keys Language-neutral operator guidance with self-explanatory icons / pictograms Possible to set additional zero points on a workpiece Menory can store up to 99 measured values Measuring system: Excellent accuracy and reliability due to the optical incremental measurement system with the double reader head Dynamic probe system enabling high repeatability Air bearings system for light and smooth movement Precise measuring head guidance on stainless steel guideways Motorized measuring slide simplifies measurement runs Probe constant remains after the instrument is switched off |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Integrated rechargeable battery with a long operating life for mains-independent measurement |
| | Temperature compensation via internal temperature sensor |

• Temperature compensation via internal temperature sensor

| Product | | 816 | 5 CL | | |
|-------------------------------|----|---------------------------------|-------------|--|--|
| Measuring range | mm | 0 –350 | 0 - 600 | | |
| Range of application from to | mm | 170770 | | | |
| Resolution | mm | 0.01, | 0.001 | | |
| Error limit | | (2.8 + L/30 | 00) L in mm | | |
| Repeatability: Bore | μm | 3 | | | |
| Repeatability: Plane | μm | 2 | | | |
| Perpendicularity deviation | μm | 15 | 20 | | |
| Operating time max. | h | 1 | 10 | | |
| Measuring force | Ν | 1.0 +/ | /-0.2 N | | |
| Rel. humidity, non-condensing | % | 6 | 55 | | |
| Working temperature | °C | 2 | 20 | | |
| Operating temperature | °C | 10 | - 40 | | |
| Order no. | | 4429030 | 4429031 | | |
| List price | £ | <u>3.897.00</u> <u>4.414.50</u> | | | |
| Offer price | £ | 3,312.00 | 3,752.00 | | |

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All illustrations and technical data are without guarantee. All prices shown are recommended retail prices. Prices are net £, excluding VAT and are valid from 15 September 2018 until 31 October 2018

Digimar 817 CLM Height Measuring Instrument

Digimar 817 CLM

With Quick Mode. Rapid measurement at the highest accuracy

Sale price starting

£ 4,649.00

at



- Contacting from below and above
- Reversal point of a bore hole / shaft (above and/or below)
- Calculate distances and/or symmetry
- Dynamic measuring functions
- Measure perpendicularity and straightness
- Measure in 2D mode
- Measuring programs
- Statistics
- Process measured data etc.
- Operating and display unit:
- Large and clearly defined function keys
- Easy to read backlit graphic LCD
- Operator guidance with self-explanatory icons / pictograms
- Future-proof thanks to software updates
- Selectable auto-off function, without loss of measured values

Measuring system:

- Excellent accuracy and reliability due to the optical incremental measurement system with the double reader head
- Dynamic probe system enabling high repeatability
- Air bearings system for light and smooth movement
- Precise measuring head guidance on stainless steel guideways
- Motorized measuring slide simplifies measurement runs
- Probe constant remains after the instrument is switched off
- Integrated rechargeable battery with a long operating life for mains-independent measurement
- Temperature compensation via internal temperature sensor

| Product | | | 817 CLM | | |
|-------------------------------|----|----------------------------------------|-------------------------------|----------|--|
| Measuring range | mm | 0 –350 | 0 - 600 | 0 - 1000 | |
| Range of application from to | mm | 170 520 | 170520 170770 1701 | | |
| Resolution | mm | 0.0 | 01, 0.005, 0.001, 0.0005, 0.0 | 001 | |
| Error limit | | | (1.8 + L/600) L in mm | | |
| Repeatability: Bore | μm | | 1 | | |
| Repeatability: Plane | μm | 0.5 | | | |
| Perpendicularity deviation | μm | 5 | 6 | 10 | |
| Operating time max. | h | | 10 | | |
| Measuring force | Ν | | 1.0 +/-0.2 N | | |
| Rel. humidity, non-condensing | % | | 65 | | |
| Working temperature | °C | | 20 | | |
| Operating temperature | °C | | 10 - 40 | | |
| Order no. | | 4429010 | 4429011 | 4429012 | |
| List price | £ | 5,166 .00 5,692.50 9,562.50 | | | |
| Offer price | £ | 4,649.00 | 4,839.00 | 8,606.00 | |

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IDEAL FOR THE WORKSHOP

When you need to measure and check workpieces quickly in the workshop, trust Mahr's height measuring and scribing instruments.

Digimar 814 SR Height Measuring and Scribing Instrument

Offer price

£ 470.00

Order no. 4426100

Exact positioning by handwheel



Functions: RESET (set display to zero), mm/inch, ABS (switch between relative and absolute measurement), reference lock/ unlock, PRESET (enter a numerical value), DATA (data transmission via connection cable), AUTO-ON/OFF

- Life of battery up to 3 years
- Travel speed 1.5 m/s (60"/s)
- Ergonomic, sturdy base
- Hardened and lapped contact surface which produces both a smooth and even movement
- Slide and rail are made of hardened stainless steel
- Handwheel for positioning and measuring
- Fine adjustment
- Locking screw
- Interchangeable measuring and scriber tips, carbide tipped





Product **Measuring range** Resolution Details Order no. List price Offer price (inch) mm/inch £ £ mm (0-14") 814 SR 0 - 350 0.01 / .0005" 4426100 553.50 470.00 Digit height: 12 mm 814 SR 0 -600 (0 - 24")0.01 / .0005" 4426101 972.00 875.00

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MILLIMAR. MADE FOR PRECISION

Mahr provides a whole world of dimensional metrology excellence. The Millimar range of products comprises perfectly matched probes and evaluation units, as well as highly precise mechanical components and customer solutions. For every measuring task in length metrology we have the solution: Millimar by Mahr.

Millimar C 1200 Compact Length Measuring Instrument

Offer price

£ 748.00

Order no. 5312010

With one probe input

1770.8



Functions: ON/OFF, mm/inch, reversal of counting direction, measuring range switching, TOL (enter tolerance limit values), PRESET (enter a numerical value), factor (adjustable), DATA (data transmission), MAX/MIN memory for reversing point search, TIR (MAX-MIN) for testing radial runout and flatness

- High resolution, high contrast TFT colour display
- Fully adjustable display for ideal viewing angle
- Extremely easy to operate
- Suitable for mains or battery operation
- Suitable for mobile use when operating with batteries.
- Compact housing
- Dynamic measuring functions (max, min, max-min)
- Menu lock
- Asymmetric tolerance display

| Product | Indicat | Indication range | | Reading | Order no. | List price | Offer price |
|---------|--------------------------------|-------------------------------------------------------------|-----|-------------------------------------|-----------|------------|-------------|
| | Digital display Analog display | | | | | | |
| | μm | μm | μm | μm | | £ | £ |
| C1200 | ± 5000 | ± 5000, ± 2000, ± 1000, ± 300, ± 100, ± 30, ± 10, ± 3 | 0.1 | 500, 200, 100, 20, 10, 2, 1, 0.2 | 5312010 | 831.60 | 748.00 |

Millimar P2004 Inductive measuring probe



| Product | Measuring range | Measuring force | Repeatability f _w | Measuring value hysteresis f _u | Order no. | List price | Offer price |
|---------|--------------------|--------------------|---------------------------------|-------------------------------------------|-----------|------------|-------------|
| | mm | Ν | μm | μm | | £ | £ |
| P2004 M | ± 2 | 0.75 | 0.1 | 0.5 | 5323010 | 234.90 | 211.00 |

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MILLIMAR. SMART AND UNIVERSAL

Carefully matched hardware and software and the convenient connection to Millimar N 1700 modules via USB interface reliably solve any measuring task. The intelligent Millimar Cockpit software, supported by graphical operating objects, ensures simple and intuitive operation.

Millimar C 1700 PC Measuring Computer

The convenient measuring computer for complex measuring tasks in the manufacturing sector





| Product | | C 1700 PC | Cockpit Software | | |
|------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|
| Package contents | | Millimar Cockpit software including 10.1" Touch PC, preinstalled Windows 10 IoT Enterprise, Mahr license key, installation disk, 16 GB recovery stick, operating instructions (online help), AC adapter, VESA 100 standard bracket | Mahr license key, instal- lation disk, operating instructions (online help) | | |
| Display | | Vertical bar graph, horizontal bar graph scale, digital display, any combination chosen for each fe | n of display types can be | | |
| Resolution | μm | 0.01 | | | |
| Tolerance display | | Upper and lower tolerance li Upper and lower warning lir | | | |
| Compatibility | | USB, Integrated Wireless, N | 1illimar N 1700 | | |
| Measuring combinations | | Predefined formula templates for Links entered via comprehensi | | | |
| Feature types | | Length, angle, dimensionless | | | |
| Dynamic functions | | MAX, MIN, MAX-MIN, MAX+MIN | | | |
| Classification | | Max. 20 classes | | | |
| Number of connectable N 1700 measuring channels | | 32 | | | |
| mber of connectable wireless receivers for i-stick 1 | | | | | |
| Number of connectable measuring instruments with integrated wireless 8 | | | | | |
| Number of connectable measuring instruments with USB interface | | 64 | | | |
| Data export | | qs-STAT, Exce | | | |
| Hardware interfaces | | 1x USB 3.0, 3x USB 2.0, 2x COM port Full-PIN (RS232/485; 5V/12V), 2x COM 2x COM "Port": 3-PIN (RX, TX, GND; RS232/485 switchable), 2x 10/100/1000Mbit RJ45 Ports; 2x W-LAN connector, VGA, Display-port | - | | |
| Power supply | | 100-240 V ACDC; 12 V DC Out | - | | |
| IP protection class | | IP 65 (front panel) | - | | |
| Languages | | German, English, Chinese, Fren | ch, Russian, Czech | | |
| System requirement | | 2 free USB 2.0 interfaces – | | | |
| Order no. | | 5312801 | 5312803 | | |
| List price | £ | 2,565.00 | 899.10 | | |
| Offer price | £ | 2,309.00 | 809.00 | | |

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MILLIMAR. MODULES FOR YOUR TASKS IN THE MANUFAC-TURING SECTOR

Smart, flexible combinations of measuring modules and software to tackle customer-specific measuring tasks.

Millimar N 1700 Modules

Modules for your application



- Flexibly configure RS485 bus modules
- Powerful interface modules to evaluate measuring sensors
- High speed data retrieval from the connected devices
- Connect N 1700 modules via USB interface to the smart, universal evaluation and configuration software Millimar Cockpit
- Connects all compatible probe types using one module
- Flexible and modular product combinations to tackle customer-specific measuring tasks
- Max. theoretical bus data rate of 4189 values/s (depending on the number of connected channels)
- Package contents: Operating instructions





N 1702 M







N 1701 PS

N 1704 I/O

| Product | | N 1702 M | N 1701 USB | N 1701 PS | N 1704 I/O |
|----------------------------------|-------------|---------------------------------------------------------|------------|-----------------------|--------------------------------------------------------------|
| Resolution | μm | 0.1 | - | - | _ |
| Measuring range, inductive probe | μm | ± 2000, ± 5000 | - | - | - |
| Probe inputs | | Mahr 1340, Mahr half bridge, Mahr LVDT, Mahr VLDT | - | - | - |
| Data transmission rate | Values/sec. | 4189 | - | - | - |
| Error limit | | 0.3% (min. 0.2 µm) | - | - | - |
| Data interface | | RS485 | RS485 | RS485 | RS485 |
| Power supply | | - | - | 230 V/115 V; 50/60 Hz | - |
| Power supply | mA | - | 430 | 2000 | - |
| Power consumption | mA | 110 | - | - | 70 |
| Control inputs | | - | - | - | 4 inputs, 10-30 V |
| Control outputs | | - | - | - | 4 outputs, 10-30 V VESD protected, short-circuit proof |
| Order no. | | 5331120 | 5331130 | 5331133 | 5331134 |
| List price | £ | 324:00 | 135.00 | 184.50 | 234.00 |
| Offer price | £ | 308.00 | 128.00 | 175.00 | 222.00 |

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MARSURF. MOBILE ROUGHNESS MEASURING INSTRUMENT FOR MORE MEASURING CONVENIENCE

Simple and intuitive to use.

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

Extremely easy to operate with detailed profile display

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



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

Perfect evaluation and documentation

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

Lt = 4,8 mm (0,8 x 5) R(c LD) 169/24 (6 mm) Wr 2.0 profet: Har Gd mm/34 Wr 2.0 profet: Har Gd mm/34 RZ 4,464 µm Rmax 4,820 µm \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc





Always at hand

Mahr

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



Mahrlights | Fall 2018

All illustrations and technical data are without guarantee. All prices shown are recommended retail prices. Prices are net £, excluding VAT and are valid from 15 September 2018 until 31 October 2018

MarSurf PS 10 Set Mobile Roughness Measuring Instrument

Intuitive and simple to use

- Simple and intuitive to use: As easy to use as a smart phone
- Large, illuminated 4.3 " TFT touch display
- Create complete PDF measuring records directly in the measuring instrument
- Customer-specific comments can be entered directly into the MarSurf PS 10 for the PDF measuring record
- Data backup as TXT, X3P, CSV or PDF file
- Instrument flexibility: Removable drive unit
- 31 Surface parameters: Offer the same range of functions as a laboratory instrument

Package contents:

- Drive unit (detachable)
- 1 standard probe conforming to standards
- Built-in rechargeable battery, charger / 3 adapters, USB cable
- Roughness standard integrated into housing (detachable), including Mahr calibration certificate
- Probe protection, carry case with shoulder strap
- Extension cable for drive unit
- Operating instructions



| Product | | PS 10 | | | | |
|----------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Measuring range | μm | 350 | | | | |
| Parameters | | Ra, Rq, Rz (Ry (JIS) equivalent to Rz), Rz (JIS), Rmax, Rp, RpA (ASME), Rpm (ASME), Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, RPc, Rmr (tp (JIS, ASME) equivalent to Rmr), RSm, RSk, S, CR, CF, CL, R, Ar, Rx, R3z | | | | |
| Stylus tip | μm | 2 | | | | |
| Calibration function | | dynamic; Ra, Rz, Rsm | | | | |
| Memory | | min. 3900 profiles, min. 500,000 results, min. 1500 PDF measuring records, expandable to 32 GB with microSD card (320x memory capacity) | | | | |
| Data interface | | USB, MarConnect (RS232), microSD slot for SD / SDHC cards up to 32 GB | | | | |
| Battery | | Lithium-ion battery, 3.7 V, nominal capacity 11.6 Wh, min. 1200 measurements | | | | |
| Measuring principle | | Stylus method | | | | |
| Probe | | Inductive skidded probe | | | | |
| Measuring force | Ν | 0.75 mN | | | | |
| Order no. | | 6910230 | | | | |
| List price | £ | 1.850.00 | | | | |
| Offer price | £ | 1,665.00 | | | | |

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ROUGHNESS WITH PRECISION

Careful testing is paramount wherever surface structures affect the functioning, processing or appearance of components or products. **MarSurf brings Mahr expertise and know how** as the top quality solution for all your surface metrology requirements.

MarSurf M 300 C SET Mobile Roughness Measuring Instrument

Perfect for accurate measurements in the production environment





£ 3,420.00 Order no. 6910431

- Automatic profile detection and corresponding selection of filters and traversing length conforming to standards
- Individual sampling lengths and short cutoff can be selected
- Printing of R-profile (ISO/ASME/JIS), P-profile (MOTIF), material ratio curve, measuring record
- Measuring units ($\mu m/\mu inch)$ and standards (ISO/JIS/ASME/MOTIF) are selectable

M 300 C SET contents:

- M 300evaluation instrument
- Cylindrical drive unit RD 18 C
- PHT 6-350 / 2 µm default probe (conforming to standards)
- Roughness standard PRN 10 Includes Mahr Calibration certificate
- Height adjustment, probe protection, **1x USB cable** (for connection to a PC), carrying case, etc.

Note: An additional separate

MarSurf RD 18 C2 drive unit for transverse tracking for M 300 C is also available!

| Product | | M 300 C |
|-----------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring range | μm | 350 |
| Parameters | | Ra, Rz (Ry (JIS) equivalent to Rz), Rz (JIS), Rq, Rmax, Rp, RpA (ASME), Rpm (ASME), Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr (tp (JIS, ASME) equivalent to Rmr), RSm, RSk, S, CR, CF, CL, R, Ar, Rx, Rv |
| Stylus tip | μm | 2 µm |
| Calibration function | | Dynamic |
| Memory | | Store up to 40,000 results and up to 30 profiles |
| Dimensions (L x W x H) of the drive unit | mm | 139 x ø26 |
| Dimensions (L x W x H) of the evaluation instrument | mm | 190 x 140 x 75 |
| Weight of the drive unit | G | approx. 300 |
| Weight of the evaluation unit | kg | approx. 1 |
| Measuring principle | | Stylus method |
| Probe | | Inductive skidded probe |
| Measuring force | Ν | 0.75 mN |
| Order no. | | 6910431 |
| List price | £ | 4,023.00 |
| Offer price | £ | 3,420.00 |

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MarSurf M 300 SET Mobile Roughness Measuring Instrument

Offer price **£ 3,420.00** Order no. 6910401 USB



With wireless Bluetooth connection

- Mobile roughness measuring instrument with the option of wireless (Bluetooth) connection to the drive unit
- Automatic profile detection and corresponding selection of filters and traversing length conforming to standards
- Individual sampling lengths and short cutoff can be selected
- Printing of R-profile (ISO/ASME/JIS), P-profile (MOTIF), material ratio curve, measuring record
- Measuring units ($\mu m/\mu inch)$ and standards (ISO/JIS/ASME/MOTIF) are selectable

M 300 SET contents:

- M 300 evaluation instrument
- RD 18 drive unit with integrated standard
- PHT 6-350 / 2 µm default probe (conforming to standards)
- Roughness standard PRN 10 Includes Mahr Calibration certificate
- Height adjustment, probe protection, 2 x USB cable (for connection to a PC), carrying case, etc.

| Product | | M 300 |
|-----------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring range | μm | 350 |
| Parameters | | Ra, Rz (Ry (JIS) equivalent to Rz), Rz (JIS), Rq, Rmax, Rp, RpA (ASME), Rpm (ASME), Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr (tp (JIS, ASME) equivalent to Rmr), RSm, RSk, S, CR, CF, CL, R, Ar, Rx, Rv |
| Stylus tip | μm | 2 µm |
| Calibration function | | Dynamic |
| Memory | | Store up to 40,000 results and up to 30 profiles |
| Dimensions (L x W x H) of the drive unit | mm | 130 x 70 x 50 |
| Dimensions (L x W x H) of the evaluation instrument | mm | 190 x 140 x 75 |
| Weight of the drive unit | G | approx. 300 |
| Weight of the evaluation unit | kg | approx. 1 |
| Measuring principle | | Stylus method |
| Probe | | Inductive skidded probe |
| Measuring force | Ν | 0.75 mN |
| Order no. | | 6910401 |
| List price | £ | 4,023.00 |
| Offer price | £ | 3,420.00 |

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Mahr

PERSPECTIVE IN METROLOGY

With MarVision optical measuring instruments, Mahr offers you a quick and reliable solution to many different measurement tasks. From precision products for the manufacturing industry to medical technology and miniaturized electronic components, precise measuring instruments and efficient operating and evaluation units meet the highest demands.

MarVision SM 150 / SM 160 Stereo Zoom Microscope

Inspection of workpieces on the shop floor or in the quality control laboratory



- High quality optics for light intensive and sharp 3D images
- Continuously variable magnification due to the adjustable zoom
- Focusing with an ergonomic handwheel, mounted either side, ideal for either a left or right handed operator
- Vee-block head tilted to 45° and rotatable through 360°; with the dioptric adjustment (54 –76 mm)
- Illumination 12 V /15 W, integrated incident and transmitted light, continuously variable (SM 150 only)

| Product | Magnification | Field of view diameter | Observation tube angle | Optical tube | | Max. height of test piece | Order no. | List price | Offer price |
|---------|-----------------|---------------------------|---------------------------|-----------------|-----|---------------------------|-----------|------------|-------------|
| | | mm | μm | | mm | mm | | £ | £ |
| SM 150 | variable 7 – 45 | 28 – 5 | 45 ° | Dinecular | 105 | 75 | 4245001 | 831.60 | 707.00 |
| SM 160 | times | 20 - 5 | 45 - | Binocular | 105 | 75 | 4245003 | 1,183.50 | 1,006.00 |

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MarVision SM 151 Stereo Zoom Microscope incl. CamSet

Powerful stereo microscope for documentation with first class optics



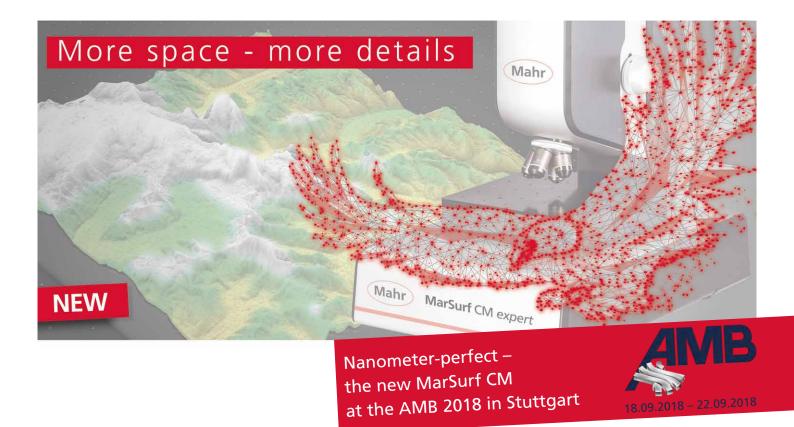
- High quality optics for light intensive and sharp 3D images
- Continuously variable magnification due to the adjustable zoom lens
- Focusing with an ergonomic handwheel, mounted either side, ideal for either a left or right handed operator
- Vee-block head tilted to 45° and rotatable through 360°; with the dioptric adjustment (54 –76 mm)
- Illumination 12 V/15 W, integrated incident and transmitted illumination, continuously variable



| Product | Magnification | Field of view diameter | Observation tube angle | Optical tube | | Max. height of test piece | Order no. | List price | Offer price |
|---------|--------------------------|---------------------------|---------------------------|-----------------|-----|---------------------------|-----------|------------------------|-------------|
| | | mm | μm | | mm | mm | | £ | £ |
| SM 151 | variable 7 – 45 times | 28 – 5 | 45 ° | Trinocular | 105 | 75 | 9104848 | _1 ,65 1.50 | 1,404.00 |

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Partner to production plants worldwide. Close to our customers.



Mahr GmbH Carl-Mahr-Straße 1, 37073 Göttingen / Reutlinger Str. 48, 73728 Esslingen Phone +49 551 7073-800, Fax +49 551 7073-888 info@mahr.de, www.mahr.com



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