

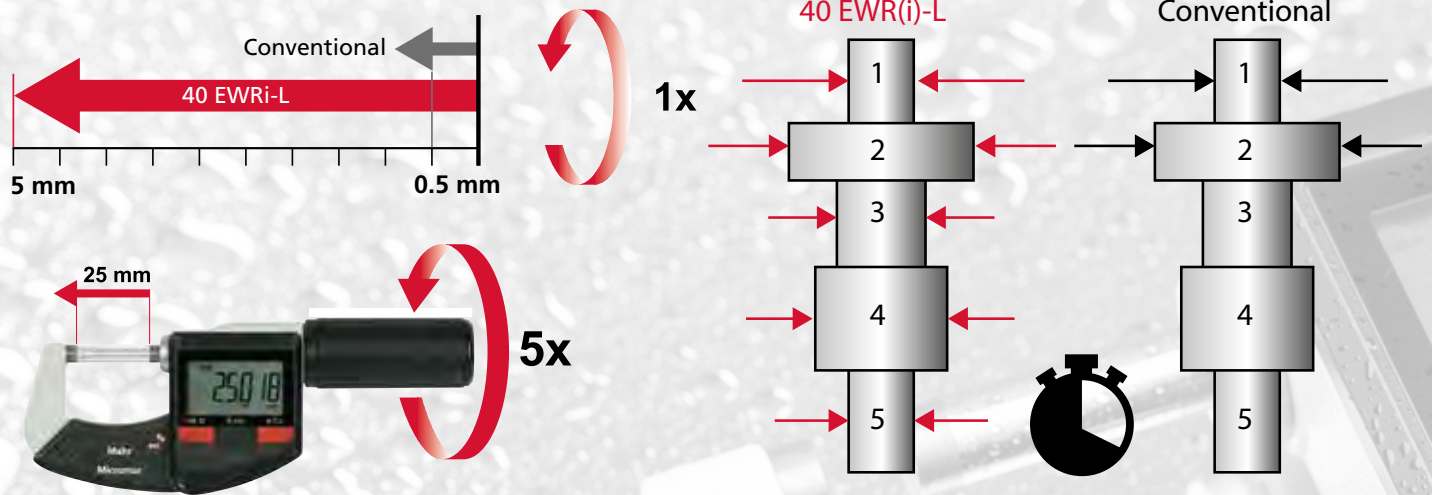
MICROMAR. THE MICROMAR 40 EWRI-L DIGITAL MICROMETER

Waterproof micrometers with quick adjustment and integrated wireless system

Shorter measuring times with QUICK DRIVE quick adjustment

The spindle covers a measuring path of 5 mm in just one revolution. With a spindle feed rate 10 times faster than that of conventional micrometers, measuring times are reduced considerably.

The non-rotating spindle is in tactile contact, avoiding scratch marks on sensitive and precision-machined surfaces.



Excellent mobility thanks to Integrated Wireless



Integrated Wireless gives you much more mobility. There is no cable to get in the way, either at the measuring station or when measuring in or on the machine or on large workpieces.



Lock function for added security

The Micromar 40 EWRI-L digital micrometer comes with a key lock function, which saves the zero position and prevents operating errors.

Practical tip: Using free MarCom software, values (origin and tolerance values) can be transferred and functions individually blocked via the wireless interface and the new bidirectional interface (USB).



Scan the QR code to watch a film showing simple and practical applications

ERGONOMIC DESIGN - COMPACT CLASS

The most compact micrometer with quick adjustment

- Superb ergonomics and balance for one-handed operation
- Biggest display in its class!
- Easy to read, even in difficult light conditions



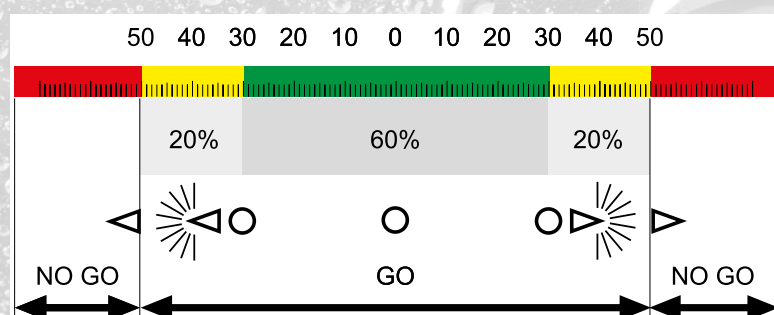
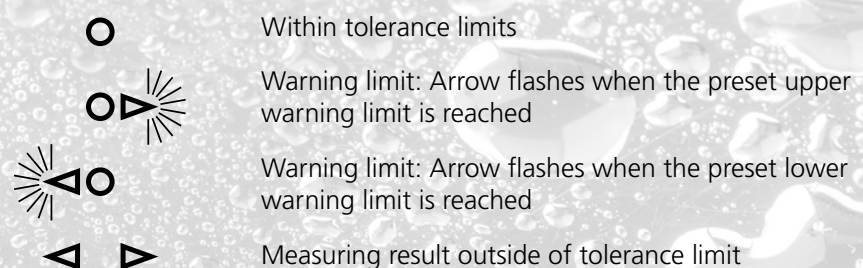
No usage restrictions



Outstanding protection against dust and water for use in the workshop and in manufacturing

Letter code	IP	International Protection
First digit	6	Dust-tight
Second digit	5	Protection against ingress of water jets

Tolerance function with warning limits for prompt detection of manufacturing deviations



MICROMAR. WITH QUICK-DRIVE QUICK ADJUSTMENT

The **Micromar 40 EWR(i)-L** digital micrometer with QUICK DRIVE prevents damage to workpieces. The non-rotating spindle is in tactile contact, preventing scratch marks on sensitive and precision-machined surfaces.

Micromar 40 EWRi-L

Digital micrometers with Integrated Wireless and QUICK DRIVE quick adjustment



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)

- Spindle and anvil are carbide tipped
- QUICK DRIVE quick adjustment (5 mm per revolution)
- Non-rotating spindle
- Ratchet operation
- **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 8

Micromar 40 EWR-L

Digital micrometers with QUICK DRIVE quick adjustment



Features

same as Micromar 40 EWRi-L, but with

- **Data interface:** USB, Digimatic
- **Software:** MarCom Professional is free to download: www.mahr.com/marcom

Product	Measuring range		Resolution	Spindle thread pitch	Data interface	Order no.	List price	Offer price
	mm	(inch)					mm/inch	mm
40 EWRi-L	0 – 25	(0 – 1")	0.001 / .00005	5	Integrated Wireless	4157120	319.00	266.00
40 EWRi-L	25 – 50	(1 – 2")	0.001 / .00005	5		4157121	363.00	299.00
40 EWR-L	0 – 25	(0 – 1")	0.001 / .00005	5	for USB or Digimatic	4157020	310.00	258.00
40 EWR-L	25 – 50	(1 – 2")	0.001 / .00005	5		4157021	354.00	295.00
Accessories for 40 EWR-L								
DK-U1	Bidirectional USB data cable with power supply					4102603	87.00	79.00
DK-D1	Digimatic data cable					4102606	77.00	69.00

MICROMAR. THE WIRELESS MICROMETER

The **Micromar 40 EWRi** digital micrometer 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



Offer price
£ 224.00
 Order no. 4157100



REFERENCE

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)

- Spindle and anvil are carbide tipped
- Rapid drive
- Ratchet operation
- **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 8



Offer price
£ 1,193.00
 Order no. 4157115

i-stick wireless receiver, see page 8

Product	Measuring range		Resolution	Spindle thread pitch	Data interface	Order no.	List price	Offer price
	mm	(inch)					£	£
40 EWRi	0 – 25	(0 – 1")	0.001 / .00005	0.5	Integrated Wireless	4157100	257.00	224.00
40 EWRi	25 – 50	(1 – 2")	0.001 / .00005	0.5		4157101	302.00	265.00
40 EWRi Set	0 – 100	(0 – 4")	0.001 / .00005	0.5	Integrated Wireless	4157115	1,346.00	1,193.00

All illustrations and technical data are without guarantee. All prices shown are recommended retail prices. The net prices are shown in £, they exclude sales tax and are valid from April 8th, 2019 until May 31st, 2019

MARCAL. THE WIRELESS CALIPER

The MarConnect system ensures that you 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 calipers with Integrated Wireless

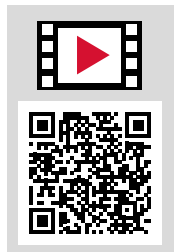
REFERENCE



Starter Pack
£ 199.00
 Order no. 9105795

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**
- 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	Measuring range		Resolution	Depth rod		Details	Order no.	List price	Offer price
	mm	(inch)		mm/inch	mm			(inch)	£
16 EWRI	0 – 150	(6")	0.01 / .0005	•		Starter Pack: incl. i-stick wireless receiver and MarCom Professional 5.2	9105795	289.00	199.00
16 EWRI	0 – 150	(6")	0.01 / .0005		•		9105796	289.00	199.00

MarCal 16 EWRI

Digital caliper with Integrated Wireless



Offer price
£ 172.00
 Order no. 4103400

16 EWRI excluding i-stick wireless receiver. Features as above.



Product	Measuring range		Resolution	Depth rod		Details	Order no.	List price	Offer price
	mm	(inch)		mm/inch	mm			(inch)	£
16 EWRI	0 – 150	(6")	0.01 / .0005	•			4103400	202.00	172.00
16 EWRI	0 – 150	(6")	0.01 / .0005		•		4103402	202.00	172.00
16 EWRI-H	0 – 150	(6")	0.01 / .0005	•		Carbide-tipped measuring surfaces	4103373	266.00	222.00

MARCATOR. THE WIRELESS DIAL INDICATOR

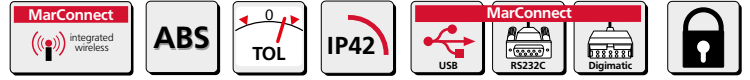
Our high-precision digital dial indicators featuring the MarConnect system ensure that you always have the optimal connection to all evaluation systems – either via integrated wireless or data cable.

MarCator 1086 Ri Digital Dial Indicators

Resolution from 0.5 µm and tolerance display



Offer price
£ 229.00
 Order no. 4337624



REFERENCE

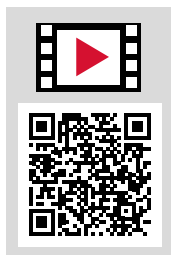
Functions: ON/OFF, RESET (set display to zero), mm/inch, reversal of counting direction, PRESET (enter a numerical value), TOL (enter tolerance limit values), ABS (display can be set to zero, without losing the reference to the preset value), DATA (data transmission via connection cable), factor (adjustable),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

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

i-stick wireless receiver, see page 8

MarCator 1087 Ri Digital Dial Indicators

Resolution from 0.5 µm and dynamic max/min functions



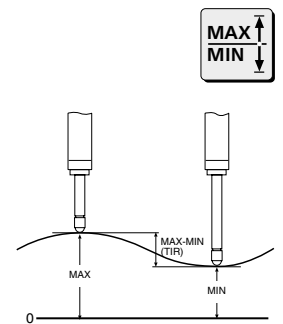
Offer price
£ 365.00
 Order no. 4337663



REFERENCE

Additional functions of MarCator 1087 Ri

- MAX/MIN memory for reversing point search,
- TIR (MAX-MIN) for radial runout and flatness test



Product	Measuring range		Resolution, switchable	Data interface	Order no.	List price	Offer price
	mm	(inch)				£	£
1086 Ri	12.5	(.5")	0.0005 / 0.001 / 0.002 / 0.005 / 0.01 mm	Integrated Wireless	4337624	371.00	299.00
1086 Ri	25	(1")			4337625	419.00	349.00
1087 Ri	12.5	(.5")	(.00002" / .00005" / .0001" / .0002" / .0005")	Integrated Wireless	4337663	435.00	365.00
1087 Ri	25	(1")			4337665	491.00	399.00

i-stick wireless receiver, see page 8

MARCONNECT. WIRELESS 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 i-stick and e-stick Wireless Receivers

Wireless receivers for measuring instruments with Integrated Wireless and handheld measuring instruments with data interface



i-stick

Offer price
£ 69.00
Order no. 4102220



e-stick

Offer price
£ 79.00
Order no. 4102230

Product		i-stick	e-stick
Radio frequency	MHz	2400	
Number of channels		3	–
Wireless distance		up to 6 m	
Number of connectable wireless receivers to PC		4	1
Number of connectable measuring instruments with Integrated Wireless		8 per stick	–
Number of connectable transmission modules per wireless receiver		–	8
For measuring instruments		with Integrated Wireless	Transmission modules 16 EWe, 2000 e, RS232 e
Order no.		4102220	4102230
List price	£	86.00	86.00
Offer price	£	69.00	79.00

MarConnect 16 EWe Transmission Module

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



Offer price
£ 249.00
Order no. 4102231

Product		16 EWe
Transmission module for e-stick (suitable for measuring instruments):		MarCal 16 ER, 16 EWR, 30 EWR, Digimar 814 SR, Micromar 44 EWR, 46 EWR, MarCator 1075 R, 1086 R, 1087 R, 1087 BR, MarSurf PS10
Order no.		4102231
List price	£	288.00
Offer price	£	249.00

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 stand out because of 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



Offer price
£ 19.00
Order no. 4100400

- 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	19.00
16 FN	0 – 200	0.05	1/28	0.05	4100401	72.00	49.00
16 FN	0 – 300	0.05	1/28	0.05	4100402	176.00	126.00

Micromar 40 A Micrometer

The classic micrometer



Offer price
£ 37.00
Order no. 4134000

- 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 clutch
- Locking device

Micromar 40 SA set
Features as Micromar 40 A



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	50.00	37.00
40 A	5 – 50	0.01	0.5	4134001	76.00	59.00
40 SA	0 – 100	0.01	0.5	4134050	283.00	224.00

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

REFERENCE



Offer price
£ 74.00
Order no. 4103010

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

- Power supply: Battery life approx. 3 years
- Lapped guideways
- Slide and beam made of hardened stainless steel

Product	Measuring range		Resolution	Depth rod		Digit height	Order no.	List price	Offer price
	mm	(inch)		mm/inch					£
16 ER	0 – 150	(6")	0.01/.0005	•		11	4103010	101.00	74.00
16 ER	0 – 150	(6")	0.01/.0005	•		11	4103012	101.00	74.00
16 ER	0 – 200	(8")	0.01/.0005	•		11	4103205	158.00	119.00
16 ER	0 – 300	(12")	0.01/.0005	•		11	4103207	198.00	159.00

MarCal 16 EWR Digital Caliper

Excellent protection against dust, coolants and lubricants

REFERENCE



16 EWR

Offer price
from
£ 109.00

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

- 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



16 EWR-H, with carbide-tipped measuring surfaces and data output

Product	Measuring range		Resolution	Depth rod		Digit height	Order no.	List price	Offer price
	mm	(inch)		mm/inch					£
16 EWR	0 – 150	(6")	0.01/.0005	•		11	4103300	150.00	109.00
16 EWR	0 – 150	(6")	0.01/.0005	•		11	4103302	150.00	109.00
16 EWR	0 – 200	(8")	0.01/.0005	•		11	4103304	209.00	159.00
16 EWR	0 – 300	(12")	0.01/.0005	•		11	4103306	281.00	214.00
16 EWR-H	0 – 150	(6")	0.01/.0005	•		8.5	4103073	225.00	188.00

MarCal 30 EWR Digital Depth Gage

For measuring deep down



REFERENCE



Offer price
£ 249.00
 Order no. 4126700

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)

- 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 Gage

For your special applications



REFERENCE

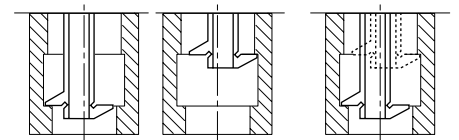


Offer price
£ 376.00
 Order no. 4126523

Features

same as MarCal 30 EWR

Measuring groove widths and distances between grooves



Product	Measuring range		Resolution	Data output	Order no.	List price	Offer price
	mm	(inch)				£	£
30 EWR	0 – 150	(6")	0.01 / .0005	•	4126700	319.00	249.00
30 EWR	0 – 200	(8")	0.01 / .0005	•	4126699	370.00	296.00
30 EWR	0 – 300	(12")	0.01 / .0005	•	4126701	419.00	319.00
30 EWR-D	0 – 200	(8")	0.01 / .0005	•	4126523	486.00	376.00
30 EWR-D	0 – 300	(12")	0.01 / .0005	•	4126524	618.00	478.00

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

REFERENCE



Offer price
£ 128.00
Order no. 4157010

- High contrast display, digit height 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	Order no.	List price	Offer price
	mm	(inch)	mm/inch	mm		£	£
40 ER	0 – 25	(0 – 1")	0.001/.00005	0.635	4157010	149.00	128.00

Micromar 40 EWR Digital Micrometers

With simple one handed operation

REFERENCE



Offer price
£ 159.00
Order no. 4157011

- High contrast display, digit height 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 of 40 EWR: same as 40 ER, plus ABS (set the display to zero without the reference to the origin being lost), Origin (enter a numerical value)

Product	Measuring range		Resolution	Spindle thread pitch	Order no.	List price	Offer price
	mm	(inch)	mm/inch	mm		£	£
40 EWR	0 – 25	(0 – 1")	0.001/.00005	0.635	4157011	185.00	159.00
40 EWR	25 – 50	(1 – 2")	0.001/.00005	0.635	4157012	250.00	214.00

Micromar 844 AS

Self-centering Measuring Pistol Set

Including digital dial indicator 1086 R



REFERENCE



- Threaded connection for changing the measuring heads
- Self-centering measuring head consists of three laterally positioned probes, each is offset at intervals of 120°
- Probes from 12 mm are carbide tipped
- From 12 mm the measuring head can be used to measure to the bottom of a bore
- From 40 mm all measuring heads are made from aluminum to reduce weight

Functions of MarCator 1086 R: ON/OFF, RESET (set display to zero), mm/inch, reversal of counting direction, PRESET (enter a numerical value), TOL (enter tolerance limit values), <0> (tolerance GO / NO GO display mode), ABS (display can be set to zero, without losing the reference to the preset value), DATA (data transmission via connection cable), LOCK (lock individual keys), high-contrast LCD

- Package contents: MarCator 1086 R, operating instructions, setting rings, key for replacing measuring heads (from 30 mm), hexagonal key, case

Offer price from
£ 1,211.00



For measuring:

- Through holes
- Blind holes
- Centering shoulders

Product	Measuring range	Resolution	Error limit	Number of 44 Ak measuring heads	Setting rings	Order no.	List price	Offer price
							£	£
844 AS	6 – 12 mm	0.0005/.00002"	3 µm	3	8 mm, 10 mm	4487760	1,661.00	1,349.00
844 AS	12 – 20 mm	0.0005/.00002"	3 µm	2	16 mm	4487761	1,481.00	1,211.00
844 AS	20 – 50 mm	0.0005/.00002"	3 µm	4	25 mm, 40 mm	4487762	2,183.00	1,787.00
844 AS	50 – 100 mm	0.0005/.00002"	5 µm	4	60 mm, 85 mm	4487763	2,646.00	2,156.00

Micromar 44 EWR

Self-centering digital inside micrometer set

With interchangeable measuring heads



REFERENCE



Offer price from
£ 1,079.00

- Basic digital unit with measuring heads
- Rapid drive with integrated ratchet
- For additional features, see Micromar 44 AS

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), LOCK (lock individual keys)

Product	Measuring range	Resolution	Error limit	Number of 44 Ak measuring heads	Setting rings	Order no.	List price	Offer price
	mm	mm/inch	µm				£	£
44 EWR	6 – 12	0.001/0.00005"	4	3	8 mm, 10 mm	4191160	1,557.00	1,274.00
44 EWR	12 – 20	0.001/0.00005"	4	2	16 mm	4191161	1,355.00	1,079.00
44 EWR	20 – 50	0.001/0.00005"	4	4	25 mm, 40 mm	4191162	2,106.00	1,739.00
44 EWR	50 – 100	0.001/0.00005"	5	4	60 mm, 85 mm	4191163	2,534.00	2,057.00

Micromar 44 AS Self-Centering Inside Micrometer Set

Micromar 44 AS with scale readout



Offer price from
£ 599.00

- Satin chrome-finished operating and display units, anti-glare
- Rapid drive with integrated ratchet
- Self-centering measuring head consists of three laterally positioned probes, each is offset at intervals of 120°
- Probes from 12 mm are carbide tipped
- From 12 mm the measuring head can be used to measure to the bottom of a bore
- From 40 mm all measuring heads are made from aluminum to reduce weight
- Package contents: Operating instructions, setting rings, key for replacing measuring heads (from 30 mm), hexagonal key, case

Product	Measuring range	Reading	Error limit	Number of Micrometers	Setting rings	Order no.	List price	Offer price
	mm	mm	µm	mm			£	£
44 AS	6 – 12	0.001	4	3	8 mm, 10 mm	4190350	941.00	764.00
44 AS	12 – 20	0.001	4	2	16 mm	4190351	726.00	599.00
44 AS	20 – 50	0.005	4	4	25 mm, 40 mm	4190352	1,647.00	1,364.00
44 AS	50 – 100	0.005	5	4	60 mm, 85 mm	4190353	1,958.00	1,643.00

MARGAGE. SMART, PRECISION WORK

Measurement standards such as parallel gage blocks and optical flats form the basis of length metrology. Parallel gage blocks are used as setting gages for indicating measuring instruments and as reference standards in calibration laboratories. Optical flats are used for testing the flatness of high-quality surfaces on precision components and measuring instruments by the interference method.

MarGage 419 C

Ceramic parallel gage block set

For testing and calibrating micrometers



Offer price
£ 636.00
Order no. 4800090

Advantages of ceramic:

- Practical properties: easy to slide, corrosion-free, no need for preservation, low weight, highly scratch-resistant, antistatic, antimagnetic and electrically non-conductive
- Damage to measuring surfaces from scratches or blowout causes no burring. Sliding properties and dimensional accuracy are unaffected
- **Extremely wear-resistant.** The longest life and highest stability of any material currently used for gage blocks. Allows for significantly longer gage monitoring intervals
- **Coefficient of expansion similar to that of steel.** So there are no usage restrictions, in manufacturing or in the laboratory.
- **Package contents:** Wooden case including Mahr calibration certificate

Product	Number of sets	Tolerance class	Nominal gage block sizes	Optical flat	Order no.	List price	Offer price
			mm			£	£
419 C	10 + 1	1	2.5 / 5.1 / 7.7 / 10.3 / 12.9 / 15.0 / 17.6 / 20.2 / 22.8 / 25	12 mm Ø 30 mm	4800090	764.00	636.00

MarGage 421 PS

Set of optical flats



- For simultaneous testing of parallelism and flatness, e.g. of planar measuring surfaces of micrometers and snap gages by the interference method
- Each with 4 different thicknesses for testing parallelism in different spindle settings (for rotating spindles)

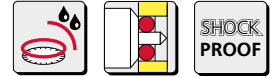
Product	Diameter	Measuring range	Nominal thickness	Number of flats	Flatness deviation	Parallelism deviation	Order no.	List price	Offer price
	mm	mm	mm		µm	µm		£	£
421 PS	30	0 - 25	12	4	0.15	0.30	4800185	470.00	389.00
421 PS	30	25 - 50	25	4	0.15	0.30	4800186	543.00	449.00
421 PS	30	50 - 75	50	4	0.15	0.30	4800187	635.00	528.00
421 PS	30	75 - 100	75	4	0.15	0.30	4800188	902.00	750.00

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-optimized mechanism ensures maximum security and precision. MarTest instruments are ideal for use in workshop conditions, with sealed dials ensuring liquid resistance.

MarTest 800 S / S-R / SG / SGE

Dial test indicator measuring device - standard version



Offer price
£ 69.00
Order no. 4305200

- High contrast dial face, sealed with an O-ring
- Satin chrome-finished housing with 3 dovetail guideways
- Shockproof mechanism
- Anti-magnetic
- Ball-bearing mounted double lever, friction clutch for overload protection
- Measuring anvil with carbide ball \varnothing 2 mm

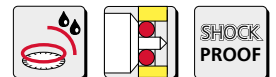
Hardened mineral glass viewing panel,
resistant to breakage and scratching

Product	Measuring range	Reading	Dial diameter	Measuring anvil length	Order no.	List price	Offer price
	mm	mm	mm	mm		£	£
800 S	\pm 0.4	0.01	28	14.5	4305200	86.00	69.00
800 S-R*	\pm 0.4	0.01	28	14.5	4305205	97.00	85.00
800 SG	\pm 0.4	0.01	38	14.5	4307200	81.00	59.00
800 SGE	\pm 0.07	0.001	38	9.15	4308220	150.00	108.00

* with ruby ball

MarTest 800 SM / SGM / SG-R / SL

Dial Test Indicator Measuring Device - for special measurements



Offer price
£ 98.00
Order no. 4308200

- High contrast dial face, sealed with an O-ring
- Satin chrome-finished housing with 3 integrated dovetail guideways
- Shockproof mechanism
- Anti-magnetic model
- Ball-bearing mounted double lever, friction clutch for overload protection
- Measuring anvil with carbide ball \varnothing 2 mm

Hardened mineral glass viewing panel,
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	\pm 0.1	0.002	28	14.5	4308150	101.00	89.00
800 SGM	\pm 0.1	0.002	38	14.5	4308200	112.00	98.00
800 SG-R*	\pm 0.4	0.01	38	14.5	4307205	98.00	86.00
800 SL**	\pm 0.25	0.01	28	41.24	4306200	127.00	109.00

* with ruby ball ** factory standard

MARCATOR POINTS YOU IN THE RIGHT DIRECTION

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

MarCator 810 A Precision Dial Indicator

The classic indicator with a lifter protection cap



Offer price
£ 29.00
Order no. 4311050

- High contrast dial face
- Adjustable colored tolerance markers for optimum contrast
- Chrome-plated metal housing
- Lifter protection cap with dust protection function
- High-precision gears and pinions

Product	Measuring range	Reading	Dial diameter	Details	Order no.	List price	Offer price
810 A	mm 10	mm 0.01	mm 50	Measuring force: 0.7 - 1.3 N	4311050	£ 39.00	£ 29.00

MarStand 815 MG Articulated Stand with Magnetic Base

Simple one handle positioning



Offer price from
£ 155.00

- 3D articulated arm, can reach any position within the operating range
- Easy to position, all three joints can be fixed into position with just one handle
- Maintenance-free mechanical clamping system
- Arm components are made of high-quality black anodized aluminum
- Dial indicator holder with 8 mm mount diameter and dovetail for dial test indicator measuring devices
- Equipped with micro-adjustment, free of backlash
- Powerful switching magnet
- Package contents: Excludes dial indicator

Product	Fine adjustment range	Total height	Projection (max.)	Vee-block for shaft diameter	Magnetic force of vee-block	Order no.	List price	Offer price
815 MG	mm	mm	mm	mm	N		£	£
815 MG		224	130		300	4420350	173.00	155.00
815 MG	5	316	200	6 - 120	800	4420360	191.00	169.00
815 MG		401	280			4420370	232.00	199.00
815 MG*	2	444	330			4420380*	446.00	390.00

* Specifically designed for measuring instruments with μm resolution

DIGITAL MEASUREMENT WITH MARCATOR

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

MarCator 1075 R Digital Dial Indicator

With large display



Offer price
£ 99.00
Order no. 4336010



REFERENCE

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

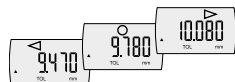
Product	Measuring range		Resolution	Order no.	List price	Offer price
	mm	(inch)			£	£
1075 R	12.5	(.5")	0.01 / .0005"	4336010	138.00	99.00
1075 R	12.5	(.5")	0.005 / .0001"	4336020	187.00	139.00
1075 R	12.5	(.5")	0.001 / .00005"	4336030	278.00	209.00

MarCator 1086 R Digital Dial Indicator

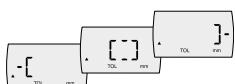
Resolution from 0.5 µm and tolerance display



Tolerance display with measurement value display.



Tolerance display without measurement value display.



Offer price
£ 267.00
Order no. 4337620



REFERENCE

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
- Power supply: Battery life approx. 3 years

Product	Measuring range		Resolution, switchable	Order no.	List price	Offer price
	mm	(inch)			£	£
1086 R	12.5	(.5")	0.01 / .0005"	4337130	261.00	197.00
1086 R	12.5	(.5")	0.0005 / 0.001 / 0.002 / 0.005 / 0.01 mm	4337620	322.00	267.00
1086 R	25	(1")	(.00002" / .00005" / .0001" / .0002" / .0005")	4337621	384.00	314.00

MarCator 1087 R Digital Dial Indicators

Resolution from 0.5 µm.
Also with dynamic measuring functions
(MAX / MIN / MAX-MIN)



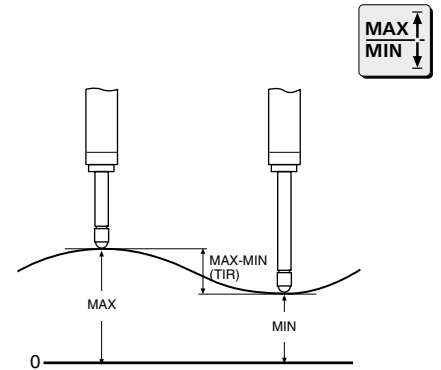
REFERENCE

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 (store the search for the reversal point), TIR (MAX-MIN) for testing radial runout and flatness, 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
- Power supply: Battery life approx. 3 years



Offer price
£ 338.00
Order no. 4337660



Radial run-out gage not included

Product	Measuring range		Resolution, switchable	Order no.	List price	Offer price
	mm	(inch)			£	£
1087 R	12.5	(.5")	0.0005 / 0.001 / 0.002 / 0.005 / 0.01 mm (.00002" / .00005" / .0001" / .0002" / .0005")	4337660	404.00	338.00
1087 R	25	(1")		4337661	462.00	376.00

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



**Offer price from
£ 3,285.00**

- Contacting from below and above
- Width between ledge and/or distance between a groove incl. center of the ledge and/or groove
- Diameter of a bore hole and/or shaft incl. center 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
- Memory can store up to 99 measured values

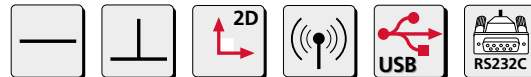
Measuring system:

- 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

Product		816 CL	
Measuring range	mm	0 – 350	0 – 600
Range of application from. . . to	mm	170 . . . 520	170 . . . 770
Resolution	mm	0.01, 0.001	
Error limit		(2.8 + L/300) L in mm	
Repeatability: Bore	µm	3	
Repeatability: Plane	µm	2	
Perpendicularity deviation	µm	15	20
Operating time max.	h	10	
Measuring force	N	1.0 +/-0.2 N	
Rel. humidity, non-condensing	%	65	
Working temperature	°C	20	
Operating temperature	°C	10 – 40	
Order no.		4429030	4429031
List price	£	3,897.00	4,415.00
Offer price	£	3,285.00	3,599.00

Digimar 817 CLM Height Measuring Instrument

With Quick Mode. Rapid measurement at the highest accuracy



Offer price from
£ 4,455.00

- 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	170 . . . 770	170 . . . 1170
Resolution	mm	0.01, 0.005, 0.001, 0.0005, 0.0001		
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	N	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	5,693.00	8,820.00
Offer price	£	4,455.00	4,849.00	7,999.00

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

Exact positioning by handwheel



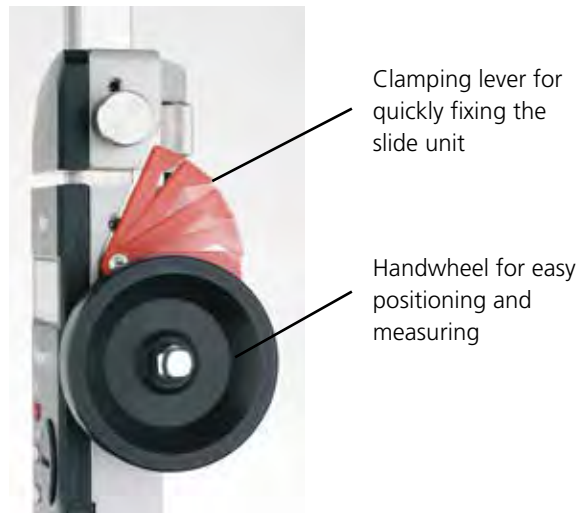
REFERENCE

Offer price
£ 475.00
 Order no. 4426100



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

- Battery life up to 3 years
- Travel speed 1.5 m/s (60"/s)
- Ergonomic, sturdy base
- Hardened and lapped contact surface for 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
	mm	(inch)				£	£
814 SR	0 – 350	(0 – 14")	0.01 / .0005"	Digit height: 12 mm	4426100	554.00	475.00
814 SR	0 – 600	(0 – 24")	0.01 / .0005"		4426101	972.00	849.00

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

With one probe input



Offer price
£ 739.00
Order no. 5312010

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 color 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	Indication range		Resolution	Reading	Order no.	List price	Offer price
	Digital display	Analog display					
	μm	μm	μm	μm		£	£
C1200	± 5000	$\pm 5000, \pm 2000, \pm 1000, \pm 300, \pm 100, \pm 30, \pm 10, \pm 3$	0.1	500, 200, 100, 20, 10, 2, 1, 0.2	5312010	851.00	739.00

Millimar P2004 / 1318 Inductive Probes

Measuring probes for every application



Offer price from
£ 206.00

Millimar P2004



Millimar 1318

Millimar P2004

- Measuring pin mounted in ball-bearing guide
- High linearity across the entire measuring range
- Excellent electromagnetic shielding (EMC)
- All probes can be easily converted from axial to radial cable entry by use of a slip-on cap (included in package)

Millimar 1318

- Dial test indicator inductive probe
- Flexible probe adjustment to contact surface
- Highly robust as the measuring system is offset from the guide and mounting shaft

Product	Measuring range	Measuring force	Repeatability	Measuring value hysteresis		Order no.	List price	Offer price
				f_w	f_u			
	mm	N	μm	μm			£	£
P2004 M	± 2	0.75	0.1	0.5	0.5	5323010	240.00	206.00
1318	-0.3 ... 1	0.25 +/-0.05	0.03	0.5	0.5	5313180	613.00	527.00

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 control elements, ensures simple and intuitive operation.

Millimar C 1700 PC Measuring Computer

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



Offer price
£ 2,299.00
 Order no. 5312801

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, installation disk, operating instructions (online help)
Display		Vertical bar graph, horizontal bar graph, analog display or circular scale, digital display, any combination of display types can be chosen for each feature	
Resolution	µm	0.01	
Tolerance display		Upper and lower tolerance limit (per feature) Upper and lower warning limit (per feature)	
Compatibility		USB, Integrated Wireless, Millimar N 1700	
Measuring combinations		Predefined formula templates for standard features Links entered via comprehensive formula editor	
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	
Number 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, Excel	
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, French, Russian, Czech	
System requirement		2 free USB 2.0 interfaces	–
Order no.		5312801	5312803
List price	£	2,619.00	899.00
Offer price	£	2,299.00	809.00

MILLIMAR. MODULES FOR YOUR TASKS IN THE MANUFACTURING 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
- Connect 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

Product		N 1702 M	N 1701 USB	N 1701 PS	N 1704 I/O
Product description		Inductive probe module	USB connection module	Power supply module	I/O control module
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	144.00	189.00	234.00
Offer price	£	289.00	129.00	168.00	209.00

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.

Flexible use

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

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.

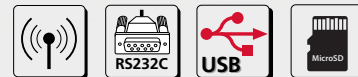
Always at hand

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



MarSurf PS 10 Set Mobile Roughness Measuring Instrument

With the latest operating concept



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



Offer price
£ 1,595.00
 Order no. 6910230

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	N	0.75 mN
Order no.		6910230
List price	£	1,850.00
Offer price	£	1,595.00

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 / M 300 SET Mobile Roughness Measuring Instrument



Perfect for accurate measurements in the production environment



M 300 C SET

Note: An additional separate MarSurf RD 18 C2 drive unit for transverse tracking for M 300 C is also available!

- 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 ($\mu\text{m}/\mu\text{inch}$) and standards (ISO/JIS/ASME/MOTIF) are selectable

M 300 C SET contents:

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

Additional feature of the M 300 SET:

- Mobile roughness measuring instrument with the option of wireless (Bluetooth) connection to the drive unit

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)
- Height adjustment, probe protection, **2x USB cable** (for connection to a PC and for use with cable), carrying case, etc.



M 300 SET

Product		M 300 C	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	
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 \varnothing 26	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	N	0.75 mN	
Order no.		6910431	6910401
List price	£	4,023.00	4,023.00
Offer price	£	3,149.00	3,149.00

MARSURF M 400. THE BEST OF THE MOBILE DEVICES

Both in the measuring room and increasingly also in the production area, there is a need for surface evaluations requiring skidless tracing. This generally requires more highly skilled operators, more time and more adjustment work.

Within the "mobile surface metrology" range, MarSurf M 400 provides the necessary range of functions, while at the same time being quick and easy to use.

MarSurf M 400 Mobile Roughness Measuring Instrument

Magnetic probe holder system

- 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)

Package contents:

- MarSurf M 400 evaluation instrument
- MarSurf SD 26 drive unit including BFW 250 probe system
- Standard probe arm (6852403)
- 1 roll of thermal paper
- Wide-range power supply unit with 3 adapters
- 2 x USB cables (for connecting to the PC and for use with cable)
- Operating instructions
- Supplied in a handy transport case



Offer price
£ 7,155.00
 Order no. 6910404



BFW probe system with magnetic probe arm holder

Product		M 400
Measuring principle		Stylus method
Probe		BFW skidless system
Measuring range	µm	+/- 250 µm (up to +/- 750 µm with 3x probe arm length)
Profile resolution		Measuring range +/- 250 µm: 8 nm Measuring range +/- 25 µm: 0.8 nm
Filter (ISO/JIS)		Gaussian filter as per 16610-21 (formerly ISO 11562), filter as per ISO 13565
Cutoff l_c (ISO/JIS)	mm	0.25 mm, 0.8 mm, 2.5 mm, automatic, variable
Number n of sampling lengths (ISO/JIS)		1-5
Contacting speed	mm/s	0.2 mm/s; 1.0 mm/s
Measuring force	N	0.75 mN
Surface parameters		Over 50 surface parameters for R-, P- and W-profiles according to current ISO/JIS or Motif standards (ISO 12085)
Order no.		6910404
List price	£	8,235.00
Offer price	£	7,155.00

MarSurf CM - OPTICAL 3D MICROSCOPY

The MarSurf CM *explorer* is a compact, easy-to-use package for the precision measurement and analysis of surfaces. The MarSurf CM *explorer* generation combines tried-and-tested features with the innovation of MarSurf CM technology. The measuring system comes with HDR function, automatic objective lens recognition and collision detection in all spatial directions. The MarSurf CM *explorer* has long proved its worth both for cost-effective laboratory use and for quality assurance in the production environment. It returns reliable 3D measurements in just a few quick and straight-forward function steps.

MarSurf CM *explorer* Precision 3D Measurement

Flexible, all-round measurement solutions



1 **Optimum performance**
Combination of high measuring point density and measurements in seconds

2 **High precision with 16-bit HDR technology**
The latest image sensors, high performance lenses and accurate path length measuring systems for measurements in compliance with standards

3 **True 3D measurements**
Physical data recording with patented confocal multi-pinhole technology

4 **Intuitive operation**
Sophisticated operating concept and ergonomic workplace solutions

5 **Simple automation**
User-independent series measurements meeting industry requirements

6 **Robust construction**
Excellent repeatability, with features designed with industry in mind

7 **Superb flexibility**
Modular hardware component design, powerful software solutions and standardized interfaces

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 151 / 160 Stereo Zoom Microscope

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



Offer price
£ 707.00
 Order no. 4245001

- 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 dioptric adjustment (54 – 76 mm)
- Illumination 12 V /15 W, integrated incident and transmitted light, continuously variable (SM 150 only)
- Trinocular stereo zoom microscope including CamSet (SM 151 only)



Offer price
£ 1,017.00
 Order no. 4245003



Offer price
£ 1,413.00
 Order no. 9104848

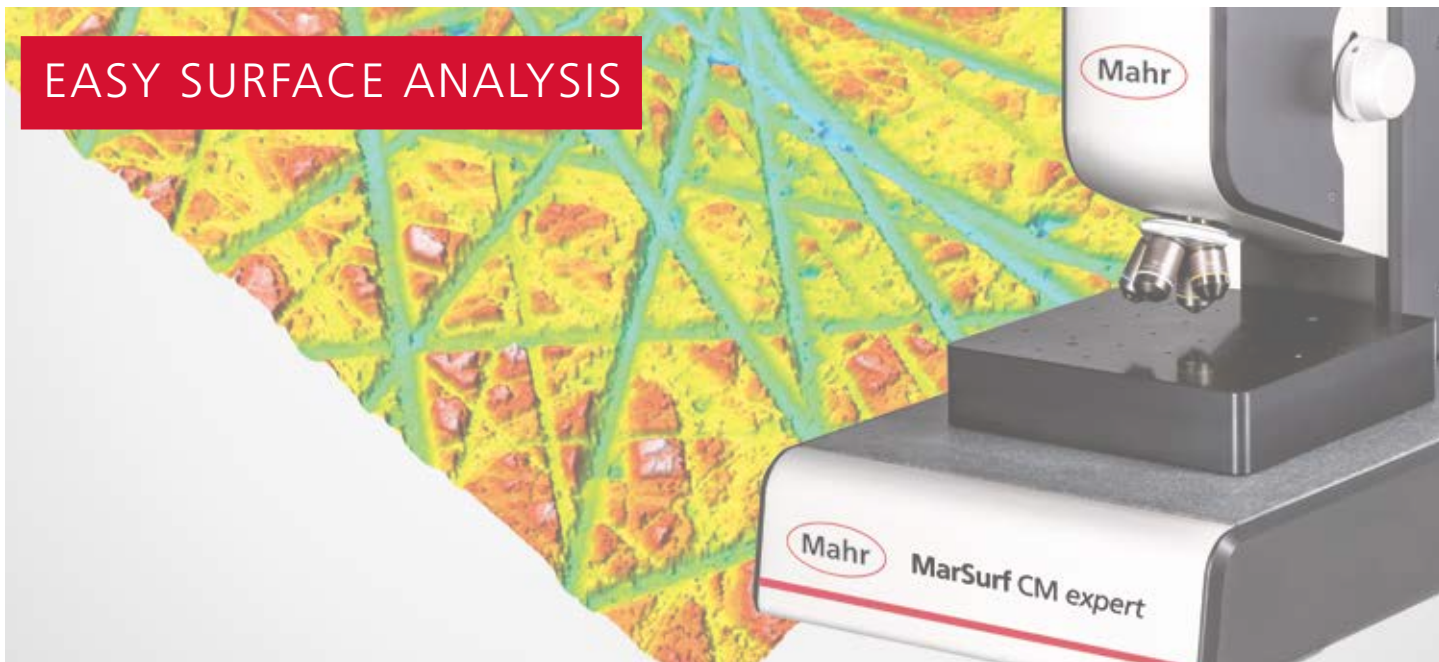
Product	Magnification	Field of view diameter	Observation tube angle	Optical tube	Working distance	Max. height of test piece	Order no.	List price	Offer price
		mm	µm		mm	mm		£	£
SM 150	variable 7x – 45x	28 – 5	45°	Binocular	105	75	4245001	832.00	707.00
SM 160				4245003			1,184.00	1,017.00	
SM 151				Trinocular			9104848	1,652.00	1,413.00

Accessories

150 lr	LED ring light	4245030	207.00	176.00
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All illustrations and technical data are without guarantee. All prices shown are recommended retail prices. The net prices are shown in £, they exclude sales tax and are valid from April 8th, 2019 until May 31st, 2019

EASY SURFACE ANALYSIS



Find out more about 3D metrology from Mahr:
Take the "3D Surface 2019" Mahr demo tour

REGISTER FOR FREE NOW
www.mahr.com/demo-tour

Partner to production plants worldwide.
Close to our customers.

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The net prices in £ do not include shipping or VAT at the current rate and are valid until May 31st, 2019
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