

MAHRLIGHTS



KOMPETENZPREIS
BADEN-WÜRTTEMBERG

Recognized for
excellent achievements
in innovation and
quality 2010



From Dkr 899,25

AUTUMN PROMOTION
PROMOTION PRICES VALID UNTIL
31 DECEMBER 2010

—
- 0 +

Mahr

EXACTLY

MarCal. The new Generation with the Reference-System

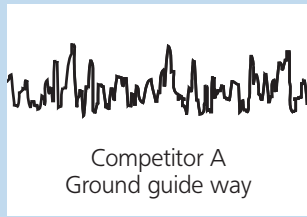
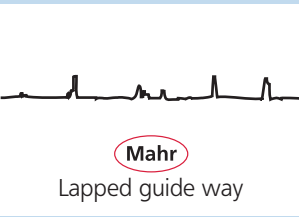
WATERPROOF CALIPERS

Superior quality of the guide ways

Only MarCal calipers have lapped guide way surfaces, these guarantee an even and sensitive run of the slide. Additionally, the service life of the caliper increases compared to a ground guide way due to the greater contact area on the guide way surface.

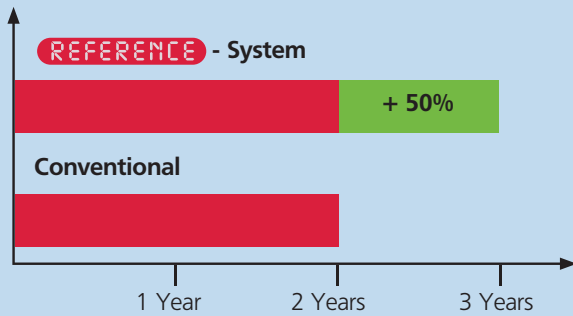


Surface of the guide way



50% longer battery lifetime

The new Reference system is extremely energy efficient as when the caliper is in standby mode; almost no power is required, thus extending the life of the battery to up to 50%.



Security due to the Reference-Lock function

- Zero-position is secured
- Operating error is not possible

The digital caliper MarCal 16 EWR Reference is equipped with a LOCK function. With this key lock the zero position is secured and operating error is avoided.



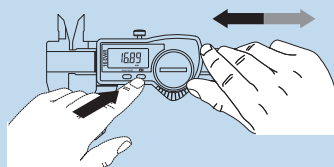
MarCal - The innovative Reference-System

Just set once to zero

All Mahr digital calipers with this logo **REFERENCE** are equipped with zero position just has to be set once: after setting the zero position, the zero remains. Therefore, once the caliper is switched ON or the slide is moved the caliper is in zero position. No need to reset to zero with a conventional caliper once the caliper is switched ON.

REFERENCE - System

- ① Switch ON



The only one with a universal MarConnect interface

Regardless of which evaluation device you are using, with a MarConnect interface you always have the optimal connection.



USB ready: For direct connection to a PC when using our MarCom software you can transfer your measured values directly into MS Excel or with a keyboard code into any application.



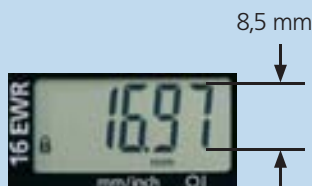
Digimatic: To connect to Digimatic compatible evaluation devices.



Mahr Opto RS232C: To connect to the COM interface on a PC.

Ergonomic Design

The handy non-slip thumb support of the MarCal 16 EWR ensures even in contaminated working conditions trouble-free handling and therefore reliable measuring results.



The high-contrast display with 8.5 mm high digits enables accurate, fatigue-free reading of the measurement results.

Excellent resistance against dust, coolant and lubricants

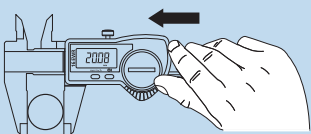


Due to the outstanding protection against dust and water the digital caliper MarCal 16 EWR Reference delivers precise and secure results even in the most difficult workshop conditions.



h the innovative Reference-System. The
ains stored for all further measurements.
Immediately ready for measurement. The
on has now become obsolete.

② Result of measurement



Code Initials	IP	International Protection
First digit	6	Dust-tight
Second digit	7	Protected against temporary immersion in water

MarCal. Digital Caliper 16 EWR with Reference System, Protection Class IP67

Innovation award for MarCal 16 EWR

With the Digital Caliper 16 EWR, Mahr has been recognized for excellent achievements in innovation and quality.

The lapped guide ways are unique for a caliper which ensures exact measurement. The Reference system ensures that the caliper is always immediately ready for measurement. The energy-efficient electronic extends the life span of the battery up to 50%. The Reference Lock function guarantees that the zero-position remains secured thus avoiding operator mistakes. This award is the initiative of P.E. Schall GmbH and the TQM Ulm under the patronage of the Steinbeis foundation for economic development.



IP67

Lock icon

DIN 862



NEW

Offer price
Dkr 899,25
Order no. 4103060

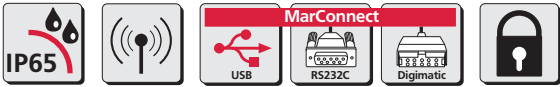
- Functions: ON/OFF, RESET (Set display to zero), mm/inch, Reference-Lock/Unlock, Auto-ON/OFF
- Immediate measurement due to the **Reference system**
- Excellent resistance against dust, coolants and lubricants, **protection class IP67**
- **MarConnect** data output, choose alternatively: USB, OPTO RS232C or Digimatic
- Life of the battery up to **3 years**
- High contrast Liquid Crystal Display with 8.5 mm high digits
- Lapped guide way



For further detailed information see:
www.mahr.com
WebCode 13526-11250

	Measuring range		Resolution mm / inch	Depth rod		Data output	Order no.	Offer price Dkr
	mm	(inch)						
16 EWR	150	(6")	0,01 / .0005"	●		—	4103060	899,25
16 EWR	150	(6")	0,01 / .0005"		●	—	4103062	899,25
16 EWR	150	(6")	0,01 / .0005"	●		●	4103064	1.146,75
16 EWR	150	(6")	0,01 / .0005"		●	●	4103066	1.146,75

MarCal. Digital Caliper 18 EWR with Reference System, Protection Class IP65



NEW



From
Dkr 2.433,75

- Funktionen: ON/OFF, RESET (Set display to zero), mm/inch, Reference-Lock/Unlock, DATA (Data transmission via connection cable), Auto-ON/OFF
- Immediate measurement due to the **Reference system**
- Excellent resistance against dust, coolants and lubricants, **protection class IP65**
- **MarConnect** data output, choose alternatively: USB, OPTO RS232C or Digimatic
- Life of the battery up to **3 years**
- High contrast Liquid Crystal Display with 8.5 mm high digits
- Rounded measuring blades for inside measurement



For further detailed information see:
www.mahr.com
WebCode 2553

	Measuring range		Resolution	Order no.	Offer price
	mm	(inch)	mm / inch		Dkr
18 EWR	300	(12")	0,01 / .0005"	4112705	2.433,75
18 EWR	500	(20")	0,01 / .0005"	4112713	4.537,50
18 EWR	300	(12")	0,01 / .0005"	4112704*	2.640,00
18 EWR	500	(20")	0,01 / .0005"	4112712*	5.032,50

* with measuring blades for outside measurement

MarCal. Digital Depth Gauge 30 EWN with Reference System, Protection Class IP67

Offer price
Dkr 3.258,75
Order no. 4126517



NEW

- Functions: ON/OFF, RESET (Set display to zero), mm/inch, Reference-Lock/Unlock, Auto-ON/OFF
- Immediate measurement due to the **Reference system**
- Excellent resistance against dust, coolants and lubricants, **protection class IP67**
- **MarConnect** data output, choose alternatively: USB, OPTO RS232C or Digimatic
- Life of the battery up to **3 years**
- High contrast Liquid Crystal Display with 8.5 mm high digits
- Beam and cross beam are made of hardened stainless steel



For further detailed information see:
www.mahr.com
WebCode 13522-11245

	Measuring range		Resolution	Order no.	Offer price
	mm	(inch)	mm / inch		Dkr
30 EWN	200	(8")	0,01 / .0005"	4126517	3.258,75

MarCal. Caliper 16 FN / 16 DN with scale reading



DIN 862

Offer price
Dkr 160,50
Order no. 4100400



16 FN

Offer price
Dkr 202,25
Order no. 4100600



16 DN

- Vernier and main scale with satin-chrome finish for glare-free reading
- Slide and beam made of hardened stainless steel
- Raised guide ways to protect the scale
- Locking screw



For further detailed information see:
www.mahr.com
WebCode 2184

	Measuring range		Resolution		Error limit G	Order no.	Offer price Dkr
	mm	(inch)	upper inch	lower mm			
16 FN	150	(6")	1/128"	0,05	0,05	4100400	160,50
16 DN	150	(6")	1/128"	0,05	0,05	4100600	202,25

Micromar. Digital Micrometer 40 EW



DIN 863-1

ABS



Offer price
Dkr 1.072,50
Order no. 4151700

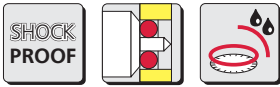
- Functions: RESET (Zero setting the display for Relative measurement), ABS (Switching from Relative to Absolute measurement), mm/inch, PRESET (enter a numerical value)
- Waterproof measuring system **IP65**
- Capacitive measuring system, life of battery approx. 2 years
- High contrast Liquid Crystal Display with 8.5 mm high digits
- Measuring spindle and anvil are carbide tipped
- Operating buttons are made from **Ultradur**[®], which has an excellent chemical resistance



For further detailed information see:
www.mahr.com
WebCode 9331

	Measuring range		Resolution	Order no.	Offer price Dkr
	mm	(inch)			
40 EW	0 - 25	(0 - 1")	0,001 / .00005"	4151700	1.072,50

MarTest. Test Indicators 800

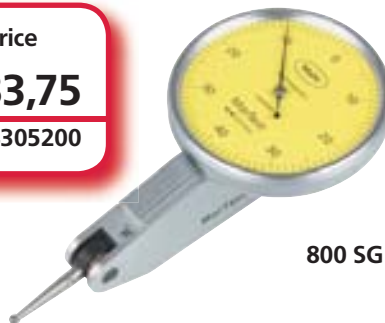


- Sealed, water proof dial face
- Anti magnetic
- Movement bearings are jewelled



800 S

Offer price
Dkr 483,75
Order no. 4305200



800 SG

Offer price
Dkr 548,50
Order no. 4307200



800 SGM

Offer price
Dkr 688,75
Order no. 4308200



800 SL

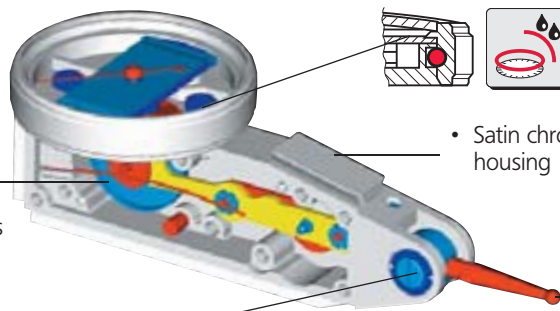
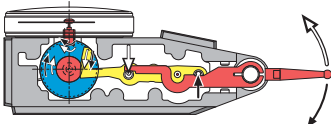
Offer price
Dkr 800,25
Order no. 4306200

Design features of MarTest Test Indicators



Mechanism

- Shockproof
- Anti magnetic
- Movement bearings are jewelled with 8 precious stones
- Automatic matching to sensing direction, thus ensuring error-free reading



- Dial face is sealed with an O-Ring
- Satin chrome finished housing
- Contact point with carbide ball
- Double lever supported in ball bearings, overload protection provided by slip clutch



For further detailed information see:
www.mahr.com
WebCode 10863

	Measuring range mm	Readings mm	Dial dia. mm	Length of styli mm	Order no.	Offer price Dkr
800 S	± 0,4	0,01	27,5	14,5	4305200	483,75
800 SG	± 0,4	0,01	38	14,5	4307200	548,50
800 SL	± 0,25	0,01	27,5	41,2	4306200	800,25
800 SGM	± 0,1	0,002	38	14,5	4308200	688,75

MarCator. Precision Dial Indicator 810 A

DIN 878

Offer price
Dkr 243,50
 Order no. 4311050



- Precision gears and pinions
- Adjustable tolerance markers
- Chrome plated housing
- Delivered in plastic case



For further detailed information see:
www.mahr.com
 WebCode 10942

	Range	Readings	Dial diameter	Order no.	Offer price Dkr
810 A	10 mm	0,01 mm	50 mm	4311050	243,50

Millmess. Dial Comparator 1003

SHOCK PROOF



DIN 879-1



Offer price
Dkr 1.171,50
 Order no. 4334000

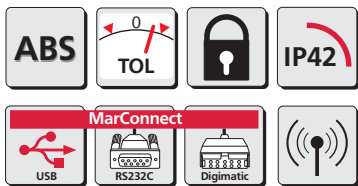
- Shockproof movement
- Maximum sensitivity and accuracy are ensured by the jewelled movement and in conjunction with the precision gears and pinions
- Lockable fine adjustment screw
- Easy to read scale



For further detailed information see:
www.mahr.com
 WebCode 5202

	Measuring range mm	Readings	Order no.	Offer price Dkr
1003 Millmess	± 50 µm	1 µm	4334000	1.171,50

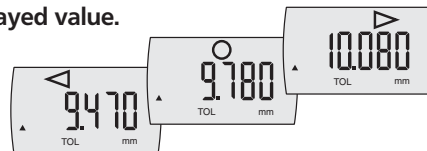
MarCator. Digital Indicator 1086



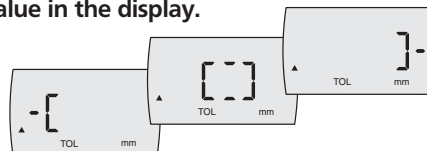
- Functions: ON/OFF, RESET (Set display to zero), mm/inch, Reversal of the counting direction, PRESET (for entering a numerical value), TOL (Enter tolerance limit values), ABS (Display can be set to zero, without losing the reference to the Preset value), <0> (Tolerance GO / NO GO display mode), DATA (when connected with a data connection cable), Factor (adjustable)
- High contrast LCD with 11 mm high digits
- Inductive measuring system, battery life ca. 2000 hrs

Tolerance indication . . .

. . . with the displayed value.



. . . without the value in the display.



From
Dkr 1.732,50



1086
12,5 mm
0,01/ .00005"

1086
25 mm
0,01/ .0005"

1086
12,5 mm
0,001/ .00005"

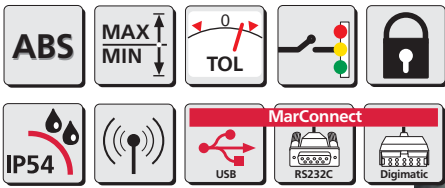
1086
25 mm
0,001/ .00005"



For further detailed information see:
www.mahr.com
WebCode 5457

	Measuring range		Resolution	Order no.	Offer price Dkr
	mm	(inch)			
1086	12,5	(.5")	0,01/ .0005"	4337030	1.732,50
1086	25	(1")	0,01/ .0005"	4337031	2.227,50
1086	12,5	(.5")	0,001/ .00005"	4337020	2.062,50
1086	25	(1")	0,001/ .00005"	4337021	2.351,25

MarCator. Digital Indicators 1088 W with analog display



12,5 mm

Offer price
Dkr 2.887,50
Order no. 4337000



25 mm

Offer price
Dkr 3.258,75
Order no. 4337001

- Functions: ON/OFF, RESET (set digital and analog displays to zero), - 0 - (set the analog display to zero), PRESET (enter any numerical values), DATA (data transmission), mm/inch-switchable, Reversal of counting direction (switch value in digital display), MAX-MIN memory, ideal for searching the reversal point, MAX-MIN memory, ideal for testing flatness and concentricity, TOL (Enter tolerance limit values), LOCK: operating functions can be blocked via PC-Software
- Power supply via the main power adapter
- **MarConnect** data output, choose alternatively: USB, OPTO RS232C or Digimatic
- High contrast **backlit** LCD with 6.5 mm high digits



For further detailed information see:

www.mahr.com
WebCode 12386

	Measuring range		Resolution	Order no.	Offer price
	mm	(inch)			
1088 W	12,5	(.5")	0,001/ .00005"	4337000	2.887,50
1088 W	25	(1")	0,001/ .00005"	4337001	3.258,75

Digimar. Height Measuring and Scribing Instrument 814 SR



REFERENCE

- Functions: RESET (Zero setting the display for Relative measurement), ABS (Switching from Relative to Absolute measurement), mm/inch, Reference-Lock/Unlock, PRESET (enter a numerical value)
- Life of the battery up to **3 years**
- **MarConnect** data output, choose alternatively: USB, OPTO RS232C or Digimatic
- High contrast Liquid Crystal Display with 12 mm high digits
- Sturdy heavy-duty base, easy to handle
- Hardened and lapped contact surface which produce both a smooth and even movement
- Hand crank for positioning and measuring

Offer price
Dkr 2.970,00
Order no. 4426100

NEW

Offer price
Dkr 4.908,75
Order no. 4426101



814 SR - 0 - 350 mm



814 SR - 0 - 600 mm



For further detailed information see:

www.mahr.com
WebCode 12414-8410

	Measuring range		Resolution	Order no.	Offer price
	mm	(inch)	mm/inch		Dkr
814 SR	350	(14")	0,01 / .0005"	4426100	2.970,00
814 SR	600	(24")	0,01 / .0005"	4426101	4.908,75

Product Information

▶ | The Universal Gauge Multimar 844 T for external and internal dimensions is easy to use and versatile; ideal for all your measuring requirements in dimensional metrology. | ◀

Applications

- External and internal dimensions
- External and internal threads
- Centering shoulders
- Narrow collars, recesses and grooves
- External and internal tapers
- External and internal tooth profiles / gears
- and lots more

Application range mm

25	-	110
100	-	260
250	-	610
600	-	1010
1000	-	1500
1500	-	2000
2000	-	2500

All indicating instruments with an 8 mm mounting shank can be used

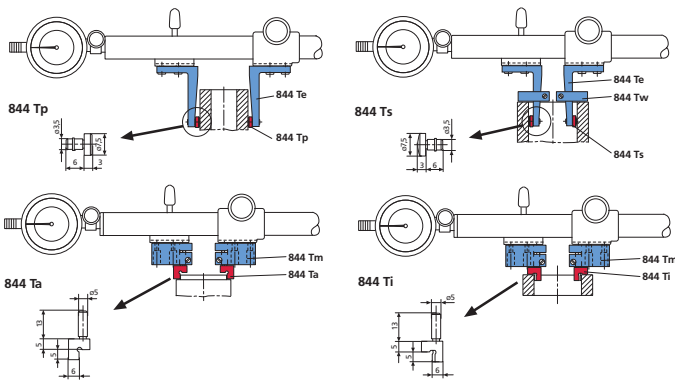


Constant measuring force due to the built-in measuring force spring



The moveable measuring arm holder is mounted in a highly precision ball guide to eliminate both play and friction; it also has an extreme measuring sensitivity and accuracy due to the optimal stability and ease of movement

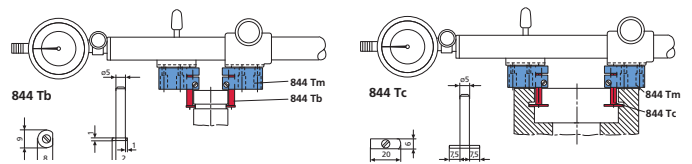
Measuring external and internal dimensions



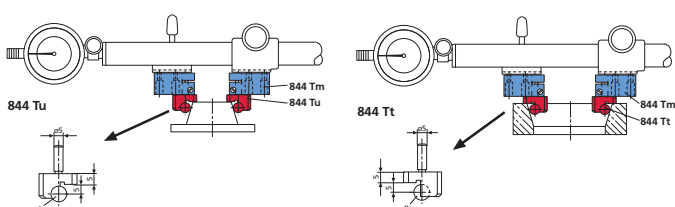
For further detailed information see:

www.mahr.com
WebCode 11075

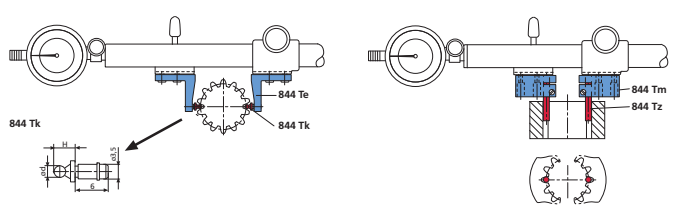
Measuring recesses



Measuring tapers and distances



Measuring external / internal tooth profiles



The basic Multimar 844 T gauge is made from a rugged, ground and hard chrome plated column

The direction of the measuring force can be changed with an Allen key for either external or internal dimensions

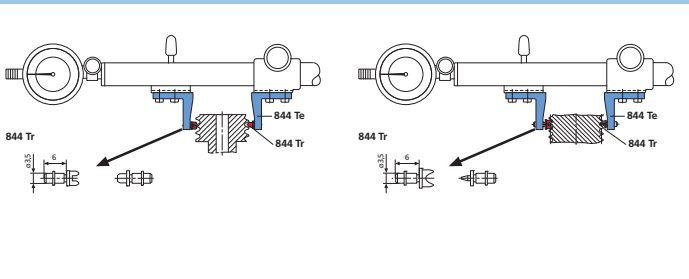
The stationary measuring arm holder can be moved along the column for coarse adjustment

Adjustable stops for setting the measuring depth

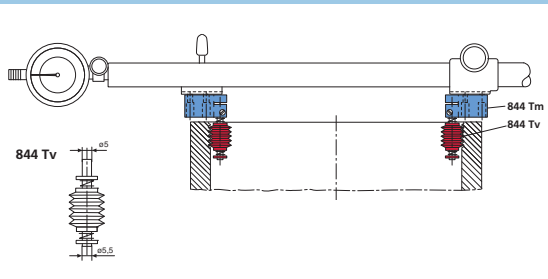
The measuring arms for measurement of external and internal dimensions. By simply reversing the measuring arms the application range can be extended

Innovative lightweight construction of the basic body, made from carbon fiber reinforced plastic (CRP) tube, for measuring range 1000-1500 mm.

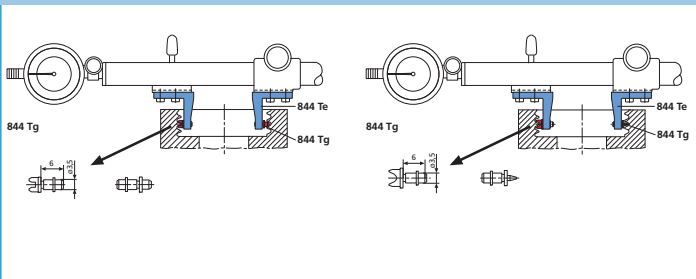
Measuring external threads



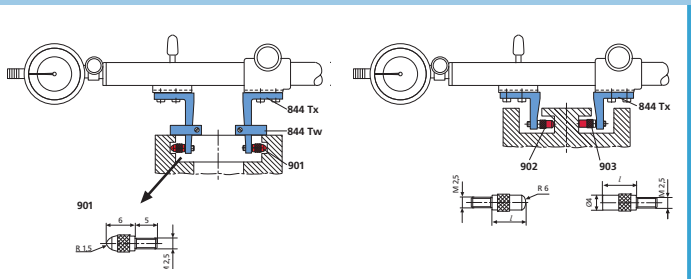
Measuring external / internal threads



Measuring internal threads



Measuring external / internal dimensions



Digimar. Height Measuring Instrument Digimar 817 CLM Quick Height

Digimar 817 CLM Quick Height. 350 / 600 / 1000 mm : The new Height Highly accurate rapid measurements, a wide range of measuring and

Fast measurement . . .

... per „Hand“ with „Quick-Mode“ (patented)



From **Dkr 32.917,50**

Display

Comfort to operate all measurement functions with the function keys



817 CLM - 1D 0 - 350 mm

817 CLM - 1D 0 - 600 mm

817 CLM - 1D 0 - 1000 mm



For further detailed information see:

www.mahr.com
WebCode 12369-8298

		1D			2D / Statistics		
		0-350	0-600	0-1000	0-350	0-600	0-1000
Measuring range	mm	0-350	0-600	0-1000	0-350	0-600	0-1000
Application range	mm	520	770	1170	520	770	1170
Resolution	mm	0,01 / 0,005 / 0,001 / 0,0005 / 0,0001					
Measuring error*	µm	1,8+L/600 (L in mm)					
Quick Mode		●	●	●	●	●	●
1-D		●	●	●	●	●	●
2-D		—	—	—	●	●	●
Motorized measuring carriage		●	●	●	●	●	●
Bore diameter		●	●	●	●	●	●
Max-Min		●	●	●	●	●	●
Tolerance monitoring		●	●	●	●	●	●
Perpendicularity / Straightness measurement		●	●	●	●	●	●
Angle calculation		●	●	●	●	●	●
Statistics		—	—	—	●	●	●
Measuring programs		40	40	40	40	40	40
Temperature compensation		●	●	●	●	●	●
Air bearings		●	●	●	●	●	●
Integrated USB memory		●	●	●	●	●	●
Data interface		RS232	RS232	RS232	RS232	RS232	RS232
USB printer interface		●	●	●	●	●	●
Order no.		4429000	4429001	4429002	4429010	4429011	4429012
Offer price	Dkr	32.917,50	36.712,50	61.875,00	35.887,50	39.187,50	64.350,00

* At 20°C in conjunction with a base plate in accordance to DIN 876/0 and a standard probe K6/51

Measuring Instrument **Digimar 817 CLM** with the innovative Quick Mode. evaluation possibilities and excellent operator comfort.

Easy to operate ...

... all functions can be operated via the speed keys



Operating and display unit with back-lit display

Measuring program ...

... for repetitive measurements / serial components



Perpendicularity ...

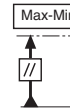
... and straightness measurements



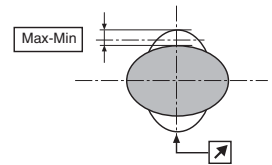
Dynamic measuring functions



Determine MAX, MIN, MAX-MIN with just one measurement.



• Parallel deviation



• Roundness deviation

Digimar. Probe Accessory Sets for 817 CLM / 816 CL

Probe Set 817 ts1		Shaft length	Mount
consists of:		mm	dia. mm
817 h2	Carrier for probes	100	—
S15/31,2	Disc probe	—	6
Z10/31,2	Cylindrical probe	—	6
MKe 30	Taper probe	—	6
TMT 120	Depth probe incl. carrier	—	—
KM 2	Probe for M2 incl. probe 800 ts	—	6
817 h4	Carrier for probes	—	8
K4/30	Spherical probe	31	8
K6/40	Spherical probe	31	8
K10/60	Spherical probe	62	8
K10/100	Spherical probe	103	8
	Carrying case		

Probe Set 817 ts2		Shaft length	Mount
consists of:		mm	dia. mm
817 h2	Carrier for probes	100	—
S15/31,2	Disc probe	—	6
Z10/31,2	Cylindrical probe	—	6
MKe 30	Taper probe	—	6
TMT 120	Depth probe incl. carrier	—	—
KM 2	Probe for M2 incl. probe 800 ts	—	6
	Carrying case		

From **Dkr 4.496,25**



817 ts1



For further detailed information see:

www.mahr.com

WebCode 12369-8298

Probe Set	Order no.	Offer price Dkr
817 ts1	4429019	6.971,25
817 ts2	4429018	4.496,25

Digimar. Height Measuring Instrument Digimar 816 CL

Digimar 816 CL 350 / 600 mm: The robust and user-friendly height on the production line.



816 CL 0 - 350 mm

Offer price
Dkr 25.162,50
Order no. 4429030

NEW



816 CL 0 - 600 mm

Offer price
Dkr 28.462,50
Order no. 4429031



For further detailed information see:

www.mahr.com
WebCode 13461

Measuring range	mm	0-350	0-600
Application range	mm	520	770
Resolution	mm		0,01 / 0,001
Measuring error*	µm		(2,8+L/300), L in mm
1-D		●	●
Motorized measuring carriage		●	●
Bore diameter		●	●
Max-Min		●	●
Measuring program		1	1
Temperature compensation		●	●
Air bearings, 3-point air cushion		●	●
Data interface			Opto RS232 / USB
Order no.		4429030	4429031
Offer price	Dkr	25.162,50	28.462,50

* At 20°C in conjunction with a base plate in accordance to DIN 876/0 and a standard probe K6/51

measuring instrument, the perfect instrument for accurate measurements

Easy to operate . . .

. . . all functions can be operated via the speed keys



Operating and display unit with an background illuminated graphic display

The motorized measuring carriage . . .

. . . minimizes the influence caused by the operator



Measuring program for serial parts



Temperature compensation . . .

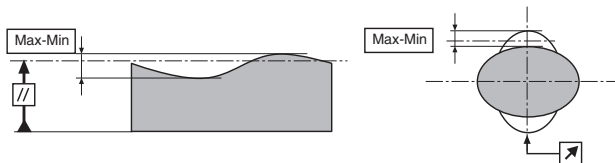
. . . for precise results even outside of the inspection room



Dynamic measuring functions



Determine MAX, MIN, MAX-MIN with just one measurement.



• Parallel deviation

• Roundness deviation

Extensive . . .

. . . possibilities of evaluation



Transmit data to a PC via USB, RS232 or wireless for example into MS Excel via the MarCom-Software



Print measured values or list of measurements in conjunction with the MSP2 Statistics Printer

MarVision. Digital Stereo-Zoom Microscope SM 150 /SM 160



SM 150

Offer price
Dkr 5.280,00
 Order no. 4245001

- High quality optics for light intensive and sharp three dimensional images
- Continuously variable magnification due to the adjustable zoom lens
- Focusing with an ergonomic hand wheel, mounted either side, ideal for either a left or right handed operator
- Prism head tilted to 45° and rotatable through 360°; with the dioptic adjustment
- Integrated incident and transmitted illumination, continuously variable (SM 150 / SM 151)
- Optional mounting of a CCD-camera is a possible (SM 151 / SM 161)



SM 160

Offer price
Dkr 8.002,50
 Order no. 4245003



For further detailed information see:

www.mahr.com
 WebCode 13603

		SM 150	SM 151	SM 160	SM 161
Magnification			variable 7x - 45x		
Field of view	mm		28 - 5		
Observation tube angle			45°		
Optical tube		Binocular	Trinocular	Binocular	Trinocular
Camera connector			●		●
Working distance	mm			105	
Max. height of test piece	mm	75	75	—	—
Illumination		Incident light 12 V /15 W, Transmitted light 12 V / 10 W, variable	Incident light 12 V /15 W, Transmitted light 12 V / 10 W, variable		
Base dimensions	mm	260 x 200	260 x 200	230 x 230	230 x 230
Order no.		4245001	4245002	4245003	4245004
Offer price	Dkr	5.280,00	7.177,50	8.002,50	9.487,50

MarVision. Workshop Measuring Microscope MM 200

Offer price

Dkr 39.352,50

Order no. 4246001



- High quality optics for light intensive and sharp three dimensional images
- Zoom lens with continuous variable magnification and/or fixed lens
- Focusing with an ergonomic hand wheel, can be mounted either side, ideal for either a left or right handed operator
- Prism head can be tilted to 45° with dioptic adjustment
- LED ring light, dimmable
- LED back light, dimmable
- Robust cast stand
- Stable XY table precision mounted



For further detailed information see:

www.mahr.com

WebCode 11166

Measuring range X/Y	50 / 50 mm
Measuring table dimensions	150 x 150 mm
Max. table load	15 kg
Measuring system	Micrometer Head
- Readings	0.001 mm
- Error limit	8 µm
- Repeatability	2 µm
Magnification	Variable zoom 8 - 40x
Field of view	23 - 4 mm
Working distance	70 mm
Max. height of test piece	180 mm
Illumination	LED Incident and transmitted light, individually adjustable
Interfaces	USB / Opto RS232
Dimensions H x W x D	535 x 410 x 470 mm

Order no.**4246001****Offer price****Dkr****39.352,50**

MarVision. Workshop Measuring Microscope MM 320 with image processing

Manual 2D-Measuring Microscope with zoom and automatic edge recognition for simple and precise measurements of bores, angles, and distances; also for the use on production line.

Offer price

Dkr 146.850,00

Order no. 9104343

Ideal for measuring:

- Electronic parts (e.g. printed circuit boards)
- 2D profile measurements on metal and plastic parts
- Small features on micro-mechanical parts
- Production control of turned parts



MM 320

MarVision MM320 with QC300

Consists of:

- MM 320 with measuring range 200 mm x 100 mm
- Operating and display unit QC 300 with automatic edge detection
- Zoom lens with magnification 0,7x - 4,5x (25x -160x on the display unit) (Order no. 4247201)
- Optoface software for transmitting data to a PC (e.g. MS-Excel) (Order no. 4246112)
- Calibration standard incl. calibration certificate (Order no. 4246901)
- Data connection cable RS232 (Order no. 4246110)

Order no.

9104343

Offer price

Dkr

146.850,00



QC 300

Characteristics of the MM320:

- MM 320 with QC 300 and CCD color camera
- Zoom lens, magnification 0,7x - 4,5x
- $MPE1 = 3 + (L/100) \mu m$

Measuring table

- Measuring range 200 mm x 100 mm
- Max. height of test piece 150 mm
- Quick and fine adjustment
- Max. table load 20 kg

Illumination

- LED back light, dimmable
- LED ring light, segments each can be individually switched on/off or dimmed
- Laser pointer for positioning assistance

Further measuring ranges:

- 250 mm x 170 mm
- 400 mm x 250 mm

Options:

- Z-Axis can be extended up to 200 mm
- Measuring system for Z-Axis
- Telecentric LED back light illumination

Characteristics of the QC 300:

- Intuitive operation per Touchscreen
- Automatic edge detection
- Storage and processing images
- Printing images via a USB printer
- Protocol can be printed
- Measurement and evaluation functions (intersecting straight lines, line of best fit, index circle, etc.)
- Simply create a measuring program with the Teach-In mode
- Trouble free program sequence due to on screen graphic guidance
- Tolerance assessment



For further detailed information see:

www.mahr.com

WebCode 12464

Advantages of the Workshop Measuring Microscope MM 320



Precimar. Universal single-axis length measuring instrument LINEAR 100 with MarCheck

Linear 100 is a universal, user-friendly length measuring instrument for rapid, precise internal and external measurements up to 100 mm (4"), directly in the manufacturing environment. The unit's simple design makes it possible to carry out measurements in no time at all and adapt quickly to new measurement tasks.

Offer price

Dkr 52.387,50

Order no. 5357300

NEW



For further detailed information see:

www.mahr.com

WebCode 12282-8080

The LINEAR 100 is very flexible when it comes to external measurements, with a direct measuring range of up to 50 mm (2") and an application range of up to 100 mm (4").

For internal measurements, the application range is 15 mm to 100 mm (0.59" to 4"), with the additional option of 6 mm to 100 mm (0.24" to 4"). It is possible to switch from internal to external measurements at any time without having to recalibrate.

The instrument can be used to measure lengths and diameters. This allows multifaceted measuring tasks to be solved, for example on the dimension over two balls on outer gears.

LINEAR 100 measuring station consists of:

- Linear 100 universal measuring instrument including height adjustable 70 x 70 mm object table with electronic display (MarCheck) and connection cable
- Measuring anvils for internal measurements from 15 mm to 100 mm and external measurements from 0 mm to 100 mm
- Measuring anvils for external measurements: planar diameter of 6.5 mm
- Cardboard packaging

Order no.

5357300

Offer price

Dkr

52.387,50

MarSurf. Mobile Roughness Measurement M 300 incl. M 300 Explorer Software



NEW



Offer price
Dkr 24.750,00
 Order no. 9104341

- Cable-free connection with Bluetooth
- Automatic selection of filter and traversing length conforming to standards
- Integrated thermal graphics printer of high print quality
- Data transfer of results and profiles via USB-interface to your PC
- Dynamic calibration function
- Evaluation of the common parameters as per ISO /JIS as well as characteristic curves, parameter lists (i. e. material ratio)
- Integrated memory for the results and measurements
- Tolerance monitoring in display and measuring record
- Printing of R-profile (ISO/ASME/JIS), P-profile (MOTIF), material ratio curve, measuring record
- 15 languages
- Units of measurement ($\mu\text{m}/\mu\text{inch}$) and standards (ISO/JIS/ASME/MOTIF) are selectable
- Number of sampling lengths selectable from 1 to 5

- Locking and/or password protection for instrument settings
- Plug-in power pack with three mains plugs, for input voltages from 90 V to 264 V
- Output of date and/or time of the measurements

Order no. 9104341*
Offer price Dkr 24.750,00

*** incl. M 300 Explorer Software**



For further detailed information see:

www.mahr.com
WebCode 13279



▶ | **DIMENSIONAL METROLOGY**



Precision Gauges



Precimar.
Precision Length Metrology



MarSurf.
Surface Metrology



MarForm.
Form Metrology



MarGear.
Gear Metrology



MarVision.
Optical Metrology



MarShaft.
Shaft Metrology



Services

WWW.MAHR.COM



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