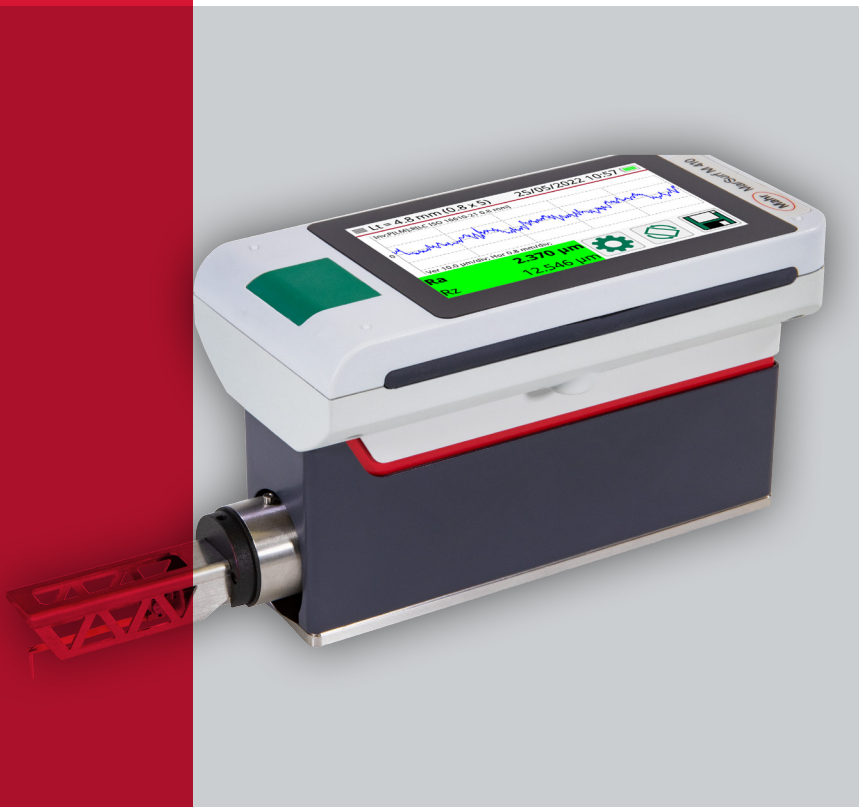




Mahr® | Precision measurement and solutions

# Product Guide



Mahr measurement solutions enable maximum efficiency for industrial metrology and quality control for production, measurement rooms, laboratories and research and development.

## Surface | Tactile measuring instruments

These measuring stations set new standards in surface inspections. Shorter measuring times, flexible applications and easy handling significantly improve the performance of your quality assurance.



Roughness, waviness and profile



Contour



Roughness, waviness, profile and contour combination



Surface and contour in one stroke, ultra high resolution



Basic roundness, circular form



Roundness, circular form and cylindricity



Advanced form with optional auto alignment



Ultra precision form with automatic alignment

## Non-Contact Surface | Optical roughness measuring instruments

Mahr has perfected the stylus method which is widely used across the world. We can also meet the latest demands for non-contact measuring with a range of optical sensors. MarSurf surface metrology combines top quality, maximum expertise and perfect know-how.



Flexible solution



High performance



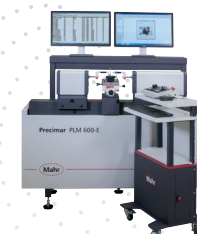
Adapted measuring solution



Portable



Bench top precision length



Ultra high precision length



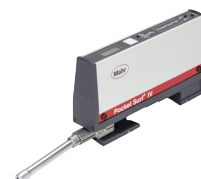
Gage block calibration



Indicator and probe calibration

## Mobile Surface | Mobile roughness measuring instruments

Wherever surface structures influence the function, processing or appearance of components or products, careful testing is essential. We meet the most demanding requirements for mobile skidded or skidless surface roughness measurement. Our latest generation of products put lab-capable systems in the palm of your hand with simple-to-use touch screen operation, flexible application with a wide range of accessories and easy integration into Industry 4.0.



Simple roughness



Versatile skidded tracing



In line or transverse tracing



Skidless tracing



Bench top measuring station



Freestanding systems up to 1 meter capacity



Optical and tactile measurements



Automatic stations combined measurements

## Form | Form and position metrology

Systems for testing form and position tolerances, such as roundness, flatness, straightness, runout and other measuring tasks. Systems range from manual to fully automated.



## Precision Length | Calibration and setting machines

Precision length measurement for all areas of use either in measuring rooms or in the highest level calibration laboratories. A full range of precision length systems for checking gage standards, acting as reference standards for gaging and measuring / certifying some of the most tightly controlled parts and reference standards.



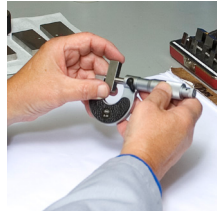
## Shaft | Shaft measuring technology

Optical and tactile shaft measurement systems for use in manufacturing environments. Complete measurement of all common rotationally symmetrical workpieces.



**Mahr Service | Performance without compromise**

Highest quality, good partnership and straightforward support - that is our objective. Benefit from fast advice, competent contact persons and comprehensive services.



Factory and authorized repair centers for gage repair and calibration



Field service for metrology systems by factory trained service technicians

**Mahr**

Mahr Inc.  
1139 Eddy Street  
Providence, RI 02905  
1-800-343-2050  
[www.mahr.com](http://www.mahr.com)



**Measuring Tools | MarCal, Micromar, and Digimar®**

Mahr offers a full line of high quality, innovative, and modern calipers, micrometers, depth gages and specialty tools. They are simple-to-operate, employ a reference system for fast start up and were the first to implement Integrated Wireless data transmission and collection with our free Marcom software. The Digimar line of height gages offers products for scribing, 1D and 2D surface plate work with high performance and simple user interface.



Digital calipers and depth gages



Digital and mechanical micrometers



Electronic height gages



Data collection tools

**Dial and Digital Indicators | MarCator**

From analog to digital, Mahr covers the entire spectrum of dial gages, dial comparators and dial test indicators. Easy handling, wireless is optionally, and highly accurate. Perfect for efficient use in manufacturing.



Dial indicators



Test indicators



Digital indicators



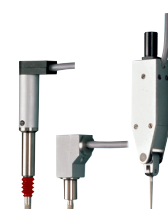
Comparators

**Electronic Gaging | Millimar®**

The requirements for electric length measuring instruments are almost as broad as their scope of application. Reliability, precision, as well as simple operation, are the major demands. Millimar evaluation systems, gaging modules and gaging software fulfill all these demands and requirements. Mahr probes are the most influential components of a measurement chain and determine the quality of the entire measurement; depending upon the type of application, we have the corresponding probe for your requirements.



Bench amplifiers



Probes



Gaging modules



Gaging software and PC's

**Air Gaging | Millimar®**

Mahr offers a wide range of pneumatic displays, air to electronic modules, tooling options and precision setting standards for your point of manufacture air gaging needs. We have the expertise and technical support to solve your most difficult dimensional and geometric gaging applications.



Bench amplifiers



Portable air gaging



Air plugs and rings



Master rings, discs and plugs

**ID/OD and Dimensional Gages | Marameter**

Mahr dimensional gages provide precise measurements of internal and external diameters on either an individual part or on serial components. This is accomplished by their constant measuring force, their exact transmission lever system as well as their high parallelism on the measuring faces. For special measuring tasks such as threads, teeth, grooves or precision mechanical parts, Mahr offers the right solution.



OD snap gaging



Bore measurement



Bench or portable ID/OD gages



High precision fixed plug gaging

**Engineered Solutions | Measuring stations according to customer requirements**

Complex measurement tasks, where efficiency, prompt on-site measurement results or the desire for the simplest operation require solutions that are individually designed. With Engineered Solutions, Mahr combines the know-how of different products and designs individually conceived measuring stations worldwide.



Automated CNC surface and form systems



In-production surface gages



Custom air gages



Semiautomatic and automatic gaging