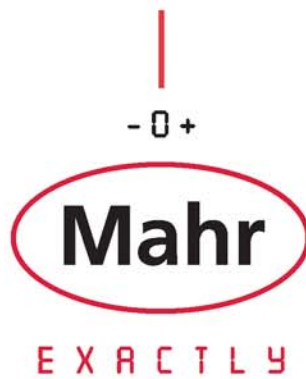




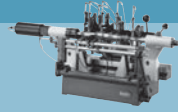
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THE MAHR CATALOG

► | **Measurement affects almost everything.** Whatever your dimensional metrology needs, this catalog can help you. It includes Mahr's complete portfolio of products for precision gages, metrology systems, and services. It is also a useful source for everyone who wants to learn more about Mahr. To ensure that readers are able

IMAGE

The most important milestones, principles, data and visions



PRECISION GAGES

1-2

From calipers to height gages



to find their way around easily, we have color-coded the main sections — the precision gages section is shown in light blue and metrology systems in dark blue. At the beginning of each of these sections you'll find a table of contents that will help you locate specific products and systems.

METROLOGY SYSTEMS

14-2

Solutions tailored to your individual needs



SERVICE

20-2

Repair, training, calibration and much more



EXPERIENCE



Mahr has been producing measuring instruments for over 140 years

COMMITMENT



The perfect solution for every need

TECHNOLOGY



Top quality for absolute precision

RELIABILITY



Results you can rely on

MORE ABOUT MAHR: THE BRAND

► | **Our yardstick is your success.** Quality assurance is playing an ever greater role in the world of production. The more important repeatable precision becomes, the greater the importance of metrology to the final result. We make it our job to ensure that the results are accurate. As one of the world's largest manufacturers of measuring equipment, our leadership in the field of innovation is

Mahr



SIZE



*Continuous growth,
a global player*

COURAGE



*Going its own way
to new standards*

IMAGINATION



*Innovation leader
in industrial metrology*

VISION



*Seeing things from
a new perspective*

unrivalled. We have the precise technology required for all conceivable requirements. Our range of products extends from calipers to customized high-end measuring systems. Our closeness to customers is one of the secrets of our innovative edge. The concepts we devise for the future of metrology are the direct result of dialog with production, research and development departments.



EXACTLY

1870



Vernier calipers from Carl Mahr made of steel and brass, produced in 1868

1900



Length measuring machine from 1908. Reading on the vernier 1/10,000 mm

1930



Millimess precision probe, constructed in 1937. First indicating unit for reliably recording dimensional differences down to 1/10,000 mm

1960



Millitron from 1964, compact length measuring instrument that was given the nickname "the miner's lamp"

MORE ABOUT MAHR: HOW IT ALL STARTED

► | **The measure of all things since 1861.** The industrialization of the 19th century not only saw rapid growth in productivity, but also a call for precision in manufacturing machine parts. As early as 1861, Carl Mahr recognized the demand this would create for precision length measurement instruments. Founded in Esslingen on the Neckar River, his family business grew slowly but surely into



CARL MAHR, ESSLINGEN A. N.
Specialität: **Messwerkzeuge.**

1980



MMQ 2, compact desktop form tester for evaluating roundness

1983



Maxµm, the world's first digital indicator, launched on the market by Federal Products Co. in 1983

1985



M4P, the first microprocessor-controlled roughness measuring instrument, with integrated printer for parameters and profiles

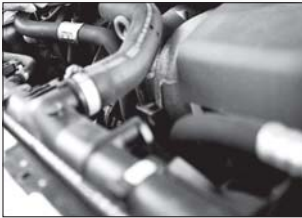
1997



MPC 502 from 1997, the first large multisensor measuring machine from WEGU-Messtechnik, which became Mahr Multisensor GmbH in 1999

a large-scale concern. Feinpruef was founded in 1936 in Göttingen, followed in 1973 by the acquisition of Dr. Ing. Perthen GmbH. WEGU-Messtechnik was added in 1999 along with Federal Products Co. in the USA. Today Mahr is a global group of companies with a workforce well in excess of 1,400 employees.

AUTOMOTIVE



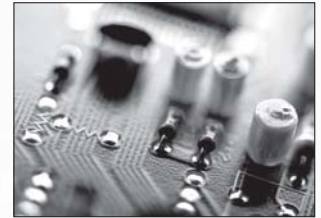
AEROSPACE



MEDICINE



ELECTRICAL
ENGINEERING

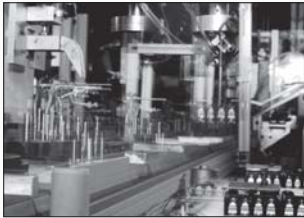


MORE ABOUT MAHR: THE EXPERTISE

► | **Industrial Metrology for all Applications.** We are increasingly committed to developing solutions that provide our customers with a processoriented spectrum of benefits for every conceivable application. Our ideas extend from initial research to final check. Many



MECHANICAL
ENGINEERING



PLASTICS



OPTICS



PRECISION
ENGINEERING



of them are derived from direct dialog with our most loyal customers across a whole range of industries. A comprehensive global service network provides services for everything from procurement of spare parts to calibrations compliant with international calibration standards.

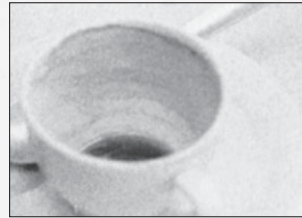




Measuring the future is a tricky business



Accurate predictions are something you shouldn't expect



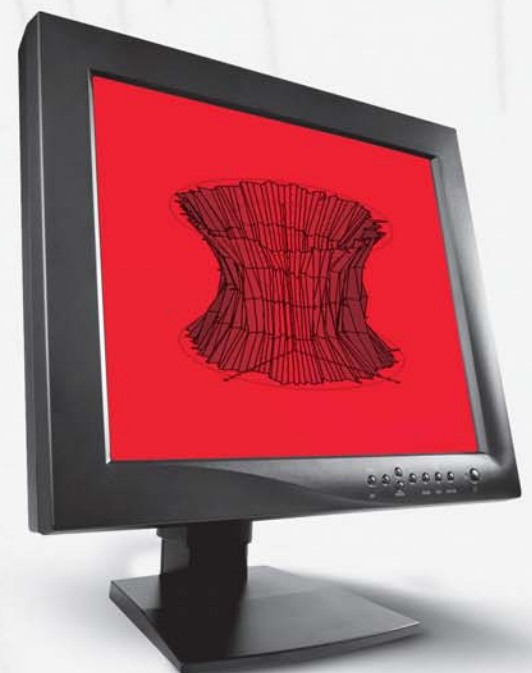
People say there are many ways to reach a goal



But none of them is entirely undisputed ...

MORE ABOUT MAHR: THE FUTURE

► | **Visions are Becoming ever more Quantifiable.** What challenges can we expect in the decades ahead? There's no shortage of speculation and theories. Nanotechnology requires workpieces that can be assembled precisely on a molecular level. The surfaces of artificial fibers must already be able to meet requirements that were considered impossible just a few years ago. The trend towards sus-





... Results can be used only in rare cases



Forecasts based on science also come with no guarantee



When it comes to the future, only one thing is certain:



It's on its way

tainability means that industry needs to constantly reinforce its commitment to accuracy in the production process. All of this combines to make dimensional metrology a key player in this process — and we are already busy contemplating new forms of measurement. What's important in this development is how you see your own future. So why not talk to us? And let us find the solution to your measurement needs.

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► | **We're there wherever you need us.** As globalization advances, our customers rightly expect that we at Mahr are also represented worldwide. We have therefore built a global network of production sites, branches and agencies with a view to ensuring

Mahr

Perthometer M1

L_v
5.60mm (0.80·S)

AUTO
RR

测量开始

R_a

R_z

R_{max}

P_c

180

μm