

DIGI TEST II

EN

ASTM
D2240

ASTM
D1415

DIN
EN ISO
868

DIN
ISO
48-2

DIN
ISO
48-3

DIN
ISO
48-4

NFT
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Modular digital measuring device for fully-automated hardness tests, according to Shore, VLRH and IRHD on polymers with variable test geometries.



The modular digitest II guarantees you maximum flexibility for the hardness testing on elastomers, polymers and flexible cellular materials. With just a few steps and without additional tools, you can replace the available measuring devices with indenters according to Shore, VLRH or IRHD. This process allows for a quick switch between different measuring methods.

The hardness measurements are carried out in a full-automated manner, and thus they are mostly operator-independent. A connected electronic unit recognizes the selected measuring device, performing the automated switch to the suitable measuring method and guiding you through the test sequence, via the user-friendly menu. With the help of laser guided technology, variable centering unit facilitates the alignment of individual test specimens or position several parts for testing automatically.

MEASURING METHODS

Shore A	Micro Shore A
Shore A0	Micro Shore D
Shore D	Shore AM
Shore 0	Shore M
Shore 00	
Shore 000	IRHD L
Shore 000S	IRHD N
Shore E	IRHD M
Shore B	IRHD H
Shore C	
Shore D0	VLRH

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MAIN CHARACTERISTICS

Modularly expandable via interchangeable measuring devices according to Shore, VLRH and IRHD

SHORE
VLRH
IRHD

Measuring devices are plug and play, and can be replaced manually in few seconds without tools and require no adjustment.



Measuring equipment

Approach system for precise measurements on flat, inclined, concave or convex geometries

Positioning equipment

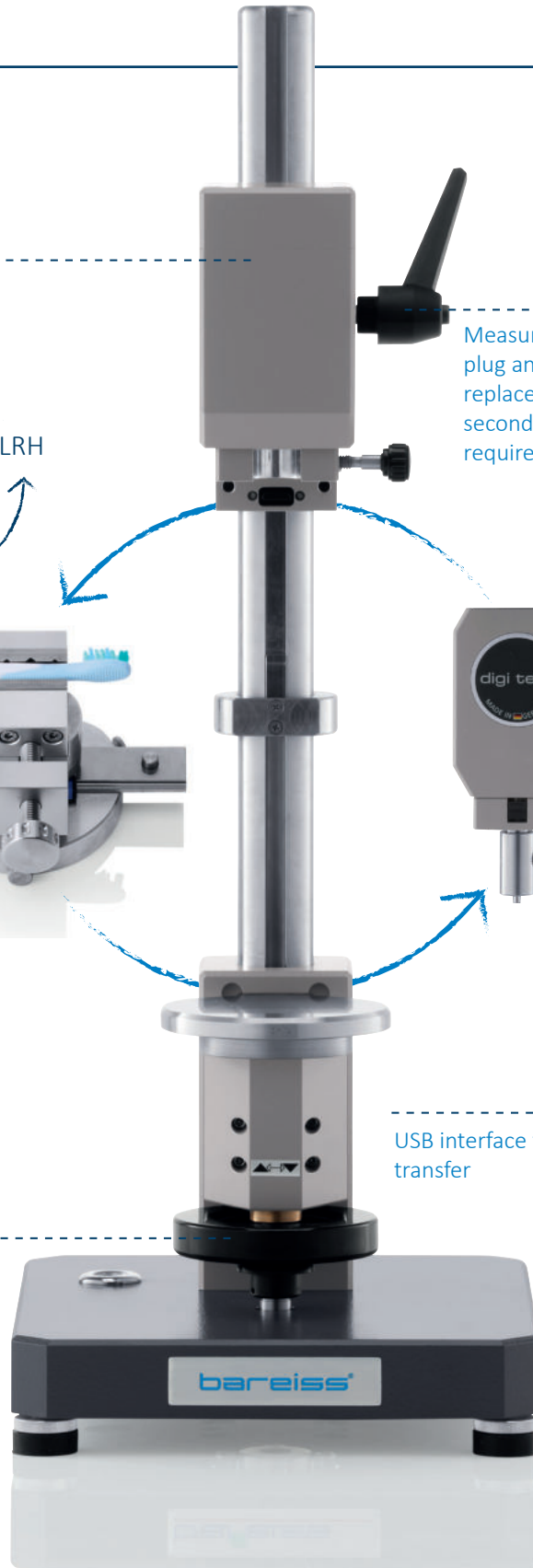
External electronic unit with illuminated display

USB interface for data transfer

Height-adjustable support arm allows the easy adjustment to various specimen sizes

Test stand

Fully-automated test sequence, at the push of a button, without operator influence or manual pre-adjustment



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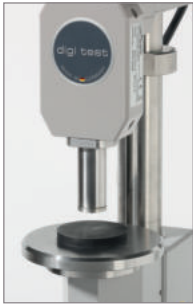
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MEASURING EQUIPMENT



Shore A for sheet materials



Shore D for sheet materials



Shore A / B / O for finished parts



Shore D / C / D0 for finished parts



micro Shore A



micro Shore D



Shore 00



Shore 000



Shore AM



IRHD N



IRHD L



VLRH

POSITIONING EQUIPMENT



Centering device with vise



Centrofix for cables



Centrofix for tubes



Centrofix customized



Rotofix with customized pattern



Rotofix for multiple rubber discs



Barofix for O-rings



Barofix for large O-rings



Laser-controlled positioning of O-rings



Sample fixture for rheology samples

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ACCESSORIES



DAkKS calibration certificate for the measuring device. The calibration takes place according to DIN EN ISO/IEC 17025, being confirmed with a DAkKS calibration certificate.



Software measurement data acquisition and analysis system



Magnifying glass with 2.5x magnification, flexible, swiveling
 Mounted on the digi test II with ease, the magnifying glass offers support for the testing of very small samples.



Reference elastomer blocks with DAkKS calibration certificate
 Reference elastomer blocks can be used to check the indenter and measuring path of the hardness tester according to DIN ISO 48.

REFERENCE

The digitest II is suitable for hardness measurements performed at room temperature. For the automated testing of the hardness of polymers, under the influence of temperature, according to Shore A, D or IRHD N, we recommend using our temperature control chamber digiChamber or, alternatively, the compact model digiChamber small.

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SPECIAL SOLUTIONS

With the digi test II you will benefit from the most flexible hardness testing device worldwide. Whether small samples or complicated geometries- we develop the right solution for you and match the test device to your automation needs.


AREAS OF APPLICATION

Today, both in the field of rubber and plastic production, as well as in the one of quality control, we are seeing a move towards performing hardness tests on finished parts instead of standard samples. The digi test II is completely automated and thus it is operator-independent to a large extent. The measuring devices are used to determine the hardness of elastic materials, polymers and elastomers.

Customer-specific solution for hardness testing of shaft seals



TECHNICAL SPECIFICATIONS

 **Measurements** Test stand Standard W x D x H:
200 x 250 x 570 mm

 **Measurements** Electrical unit W x D x H:
260 x 260 x 110 mm

 **Weight** Test stand 14 kg

 **Weight** Electrical unit 2,5 kg

SCOPE OF DELIVERY

Test stand

Support arm for measuring units

Electronic unit with integrated software

USB data cable

Operating manual

MADE IN GERMANY SINCE 1954.

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DAkKS-Kalibrierlaboratorium

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Deutsche
Akkreditierungsstelle
D-K-15206-01-00

The accreditation is valid for the scope listed in certificate D-K-15206-01-00 (mechanical measurands in the range of hardness).