bareiss®
PRÜFGERÄTEBAU GMBH

REBOUND ELASTICITY TESTER

EN

ASTM D7121 | DIN 53512 | ISO 4662

Fully-automatic digital measuring device with guided pendulum hammer, external electronic unit and optional temperature control module for the determination of rebound resilience on elastomers.

The rebound elasticity tester determines the flexibility of elastomers and similar materials, in a fully automatic manner, without operator influence. Thanks to the optional temperature control module, it also allows for measurements on heated test specimens to be performed. As a result, it offers information on the changes occurring in the elasticity of materials, under the influence of temperature.

The integrated spring clamp system can be adapted to various sample strengths, fixing the specimen for the test in a secure manner. The pendulum hammer can be raised and lowered automatically. The external electronic unit allows for the safe guidance during the test sequence, showing the determined values and offering the option of exporting data via variable interfaces.

MEASURING METHODS

Push pendulum principle

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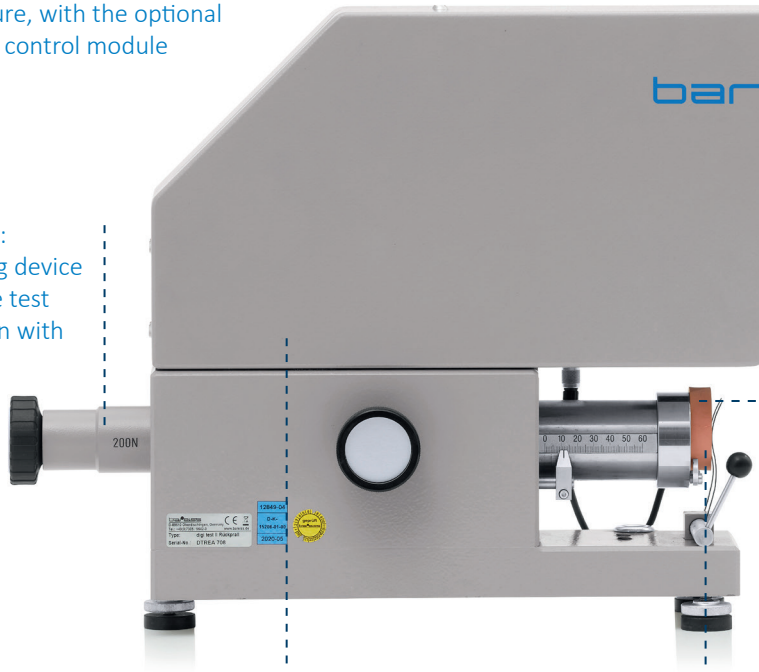
MAIN CHARACTERISTICS



Guided pendulum movement

Self-checking swinging time of the pendulum hammer

Measurement under the influence of temperature, with the optional temperature control module

Optional: Clamping device to fix the test specimen with 200 N

Flexible spring clamp system for various specimen thicknesses, with up to 50 mm specimen thickness

Automated test sequence

External electronics unit with illuminated display

Automatic sample detection protects against idling and damage to the anvil plate

TECHNICAL SPECIFICATIONS

Measurements Rebound elasticity tester W x D x H: 200 x 250 x 570 mm

Measurements Electronical unit W x D x H: 200 x 171 x 90 mm

Weight Rebound elasticity tester 33 kg

Weight Electronical unit 2 kg

SCOPE OF DELIVERY

Tester with pendulum hammer

Anvil plate with spring clamp system

External electronic unit

Operating manual

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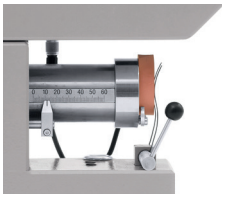
ACCESSORIES

DAkkS calibration certificate The calibration takes place according to DIN EN ISO/IEC 17025, being confirmed with a DAkkS calibration certificate.

Software
The software controls the hardness and hysteresis measurement processes undertaken with Bareiss testing devices.



Anvil plate with support bracket for 80x80x50 mm foam samples, according to DIN 53573

Clamping device to fix the test specimen with 200 N

Temperature control module up to 100° C

Pendulum hammer R40 mm for foam samples 0.2 J – form B according to DIN 53573

Pendulum hammer R15 mm hemisphere for elastomer specimens

REFERENCE

The rebound elasticity tester relies on the rebound of an automatically-triggered and guided pendulum hammer to determine the elasticity of elastomers and other similar materials. It allows for specimens of different strengths to be used. Optionally, it can perform tests at elevated temperatures of up to 100° C. As an alternative to this automated testing device, you can also choose our rebound elasticity testing device with manual operation. With this standard model, the operator manually fixes and loosens the pendulum hammer. The flexible polymer foams can be verified with the ball rebound tester, according to ISO 8307.

MADE IN GERMANY SINCE 1954.

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