Pendulum Rebound Resilience Tester

Standards: DIN 53512, ASTM D1054, ISO 4662

- ULTIMATE USER-FRIENDLINESS
- LEADING DEPENDABILITY AND RELIABILITY
- STRICT COMPLIANCE WITH INDUSTRY STANDARDS
- STOCKED CONSUMABLES AND SPARES
- TRUSTED AFTER SALES TECHNICAL SUPPORT
- LIFETIME PRODUCT SUPPORT ADVANTAGE

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Description

NextGen's Pendulum Rebound Resilience Tester series offer both manual and fully-automatic options with digital display terminal. These rebound testers will determine the dynamic behavior of various materials and supply the differentiation of these materials' qualities. It will also identify material changes after aging and fatigue. The Pendulum Rebound Tester is out there with an adjustable heater for sample temperatures up to 100 °C. It can simulate the effect of heat on the elasticity of samples with different formulations.

The objective of tests on elastomers and foams is the straightforward and fast measurement of material elasticity. One material that is up to 100% elastic stores supplied energy and releases it at the moment the force is no longer applied. In contrast, material that is up to 100% plastic absorbs supplied energy completely. These characteristics are used to measure rebound resilience.

These systems are developed for the determination of the resilience elasticity of elastomers, soft elastic foams and similar materials during shock loading calculation of the median value in accordance with DIN 53512, ASTM D 1054, and ISO 4662 standards.

Features

- Determination of the dynamic behaviour of different materials
- Differentiation of different material qualities
- Extremely low-maintenance - Fully automatic sequence with geared motor as sole actuator.
- Identification of material changes after dynamic fatigue tests and after aging
- Quality assurance during the production process and at the finished product
- Wear-free mechanism - ideal for continuous operation.
- Frictionless pendulum encoder
- Independent Electronic Unit with LCD Display
- Selectable temperature ranges from 10 °C to max. 100 °C on the contact surface of the specimen. a second specimen can be preconditioned at the same time.
- Diameter of specimens 29 - 53 mm, thickness of specimens 12 mm
- Integrated routine enables rapid error analysis.
- PC connection via the integrated RS232 C interface for output and processing of test results.

Watch Video

Watch the Pendulum Rebound Resilience Tester product video.

WATCH ON YOUTUBE

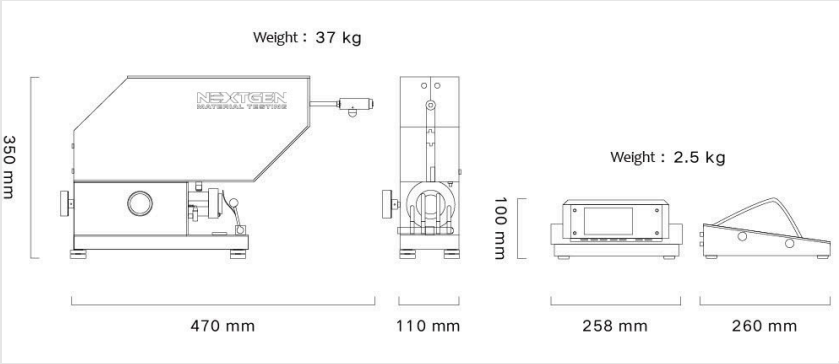
Technical Specifications

Model #	Pendulum Rebound Resilience Tester
Power Supply: Input:	100 – 240 VAC ; 50 / 60 hz 1P
Resolution:	0.1 %
Measuring Ranges:	Rubber resilience
Data Output:	V24 RS 232 - 9600 baud, 1 start bit, 8 data bits, 1 stop bit
Length of Pendulum:	200 mm
Angle of Incidence:	90°
Impact Velocity:	2 m/s
Adjustment For Specimen Thickness:	0 ... 60 mm
Scale Value:	1 mm
Dimensions (LXWXH)	**Main instrument:** 7.87x 9.84 x 22.44" 200 x 250 x 570 mm
	Electronic Unit: **7.87 x 6.73 x 3.54"** **200 x 171 x 90 mm**
Weight	**Main Instrument:** 73 lbs / 33 kg
	Electronic Unit: 4.4 lbs / 2 kg
	Heating Module: 6.6 lbs / 3 kg

Accessories

- Dakks Calibration Certification from the Manufacturer
- Anvil plate
- Heating module
- 200N Clamping Device
- HardTest - Intuitive Software

System Dimensions



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