

Ball Rebound Tester Polymer Foams Tester EL-50



Purpose: The Ball Rebound Tester is intended to assess the resilience of materials, such as: foam, polyurethane and other similar materials. This is a very popular quality control device for hybrid mattress manufacturers and footwear industry around the World.

Standards: ISO 8307:2018 (Flexible cellular polymeric materials — Determination of resilience by ball rebound) and ASTM D3574-17 (Standard Test Methods for Flexible Cellular Materials—Slab, Bonded, and Molded Urethane Foams). ASTM D3574-17.

Scope: The elasticity of polymeric foam materials can be analyzed with this system, by measuring the rebound height of a ball after the free fall and impact on a test specimen. The rebound height is electronically determined through high accuracy sensors. Thanks to a magnetic holder, the 16 mm ball remains securely adjusted until the start of the measuring process before it is manually released, dropping freely onto a sample from a specified height of 500 mm. The touchscreen HMI interface automatically shows the measuring value and the median value in %.

Main Features

Extremely easy to learn to operate

Measuring Principle: A Ø16 mm magnetic steel ball falls freely onto the sample from a specified height of 500 mm

HMI touchscreen interface Software: System for data logging and analysis

Measuring range: 0 - 100%

Data output: USB Port

Power Supply: 230 V.AC – 50/60 Hz | Power Consumption: 400 W

Air Supply: Not Required

Supplied with

- a) Instructions manual;
- b) Conformity, CE and Warranty Certificates;
- c) Workshop Calibration Certificate;
- d) Electrical diagram;
- e) Standard cutting dye to cut test.

Machine overall dimensions: 65 x 32 x 65 cm (Front x Depth x Height)

Dimensions

Test stand with down pipe: 30 x 30 x 65 cm (WxDxH)

Electronic unit: 32 x 31 x 21 cm (WxDxH)

Net Weight: 25 Kg