

REBOUND CHECK

SCHOB TYPE REBOUND TESTER FITTED WITH TOUCH-SCREEN DISPLAY SYSTEM FOR THE CALCULATION OF THE RESILIENCE OF ELASTOMERS WITH HARDNESS BETWEEN 30 AND 85 IRHD.



gibitre[®]
INSTRUMENTS

Standards the instrument complies with:

ASTM D7121; ISO 4662;

Instrument characteristics

The instrument measures the resilience of elastomers with hardness ranging from 30 to 85 IRHD points.

The Resilience is the ratio between energy yield and energy applied in the impact between the instrument's hammer and the specimen having dimensional characteristics defined by the standards.

This measure provides useful indications regarding the dynamic behavior of an elastomer.

The measurement is performed by determining the rebound angle of the hammer following the impact.

The instrument provides direct reading of the resilience value.

The results of 5 tests performed on the specimen, their mean and standard deviation are displayed.

Instrument control

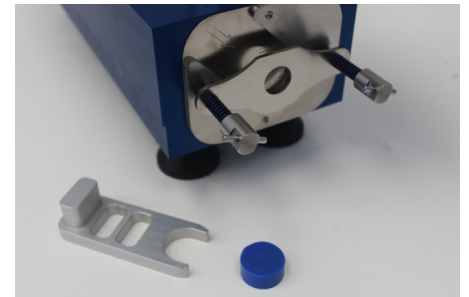
The touch-screen display installed on the instrument permits to:

- Display the results of 5 tests made on the sample
- Calculate mean and standard deviation of the results
- Calibrate the angle reading of the instrument
- Export the data



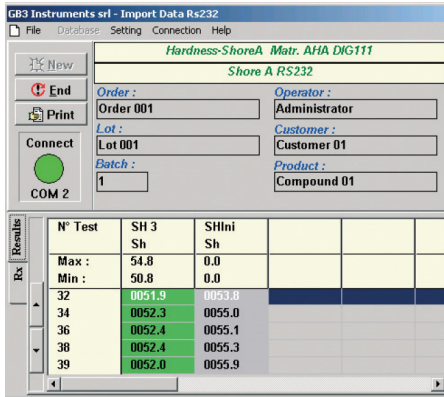
Sample Holder

The sample holder is conforming to ISO 4662 and ASTM D 7121 standards. The application tool supplied with the instrument permits easy insertion and removal of the sample.



Software for data import

Gibitre_Serial Connection software for data storage and printout.



Standard Calibration service for Rebound Tester

Maintenance and Calibration service for your Rebound Tester.

The calibration is performed with reference to the requirements of ISO 4662 standard.

The service includes:

- Ordinaly maintenance of the instrument
- Testing of the friction: measure of the number of free oscillation of the striker before the stop.
- Calibration of the diameter of the striker.
- Calibration of the weight of the striker.
- Calibration of the length of the striker.
- Issue and e-mail shipment of the Calibration Certificate with traceability to primary standards.

Mould for sample preparation

Mould for preparing specimens in compliance with ISO 4662 and ASTM D 7121standards.



Development and production

The instrument is totally developed and produced in the plant of Gibitre Instruments in Italy.

All the mechanical parts are produced in the company workshop using modern CNC machines.

Components and sensors from well-known brands are selected in order to ensure the maximum reliability in the measures

Internal trained personnel takes care of all the production stages: **assembly, start-up, calibration, packing, shipment and installation.**



Type of measurement	Resilience measurement on samples in compliance with standards (Rebound %)
Test method	Recording of 5 test results (Rebound %) and automatic calculation of mean and standard deviation.
Sensitivity	0.2 %
Software	
Data transmission (option)	Software, compatible with Windows 10, for import of test results and data storage into SQL database. The connection between the instrument and the pc is made with USB cable.
Calibration	
Calibration Report	Calibration report with traceability to primary standards in conformity with the Calibration requirements specified in ISO 4662 standard
Construction Characteristics	
Power supply	110/220 VAC $\pm 10\%$, 50/60 Hz ± 3 , 0.2 A single phase
Electrical Power	40 W
Control Display	Touch Screen display for instrument setup and results display The display permits to: • display the results of 5 tests • calculate mean and standard deviation of the results • calibrate the angle reading of the instrument • export the data
Weight	30 Kg
Display Dimensions	External dimensions W 92 x D 150 x H 30 mm - Usable Area 60 x 100 mm
Instrument Dimensions	(W x D x H) 200 x 200 x 500 mm



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