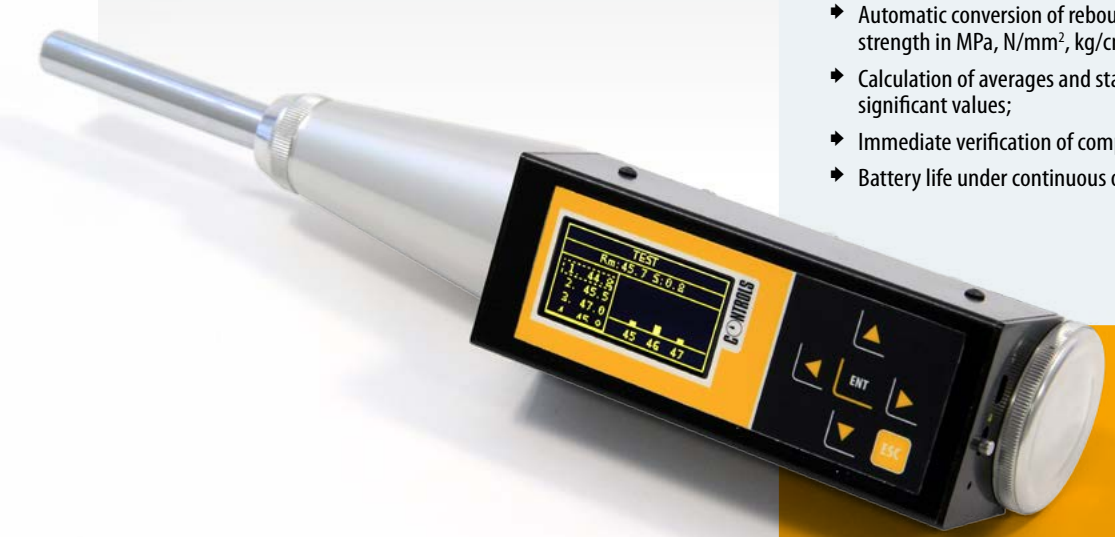
Digital rebound test hammer

58-C0181/DGT



- Test procedure conforming to EN 12504-2 and ASTM C805;
- Allows to generate customized test procedure;
- Storage capacity 2 Mb;
- Saves, displays and downloads data to PC via USB port;
- PC software included;
- Integrated rechargeable lithium ion battery of 1600 mAh and multi-voltage / multi-frequency battery charger;
- Measurement and indication of the exact instrument tilting angle by triaxial inclinometer;
- Multiple correlations between rebound index and compressive strength selectable by the user;
- These correlations can be also customized;
- Automatic conversion of rebound index to equivalent compression strength in MPa, N/mm^2, kg/cm^2, psi;
- Calculation of averages and standard deviations; discard of non-significant values;
- Immediate verification of compliance to the Standard in use;
- Battery life under continuous operation more than 10 hours.

Standards EN 12504-2 | ASTM C805

The rebound number determined by this method can be used to assess the uniformity of concrete in situ, to delineate zones or areas of poor quality or deteriorated concrete in structures.
This NDT test method is not intended as an alternative for the compressive strength determination of concrete, but with suitable correlations already saved in the instrument, it provides an estimate of the in situ compressive strength.
The hammer may be used for comparative testing, referenced against a concrete with known strength or against a concrete verified as conforming to a particular strength class.
The rebound hammers measure the rebound of an anvil impacting a plunger in contact with the concrete surface.

With this advanced instrument the rebound value is calculated with an innovative technology taking into account the anvil speed before and after the impact.
This new working principle is equivalent to the traditional measurement of maximum spring length after the impact, but it provides the following benefits:
- higher accuracy and stability of the readings not affected by wear and tear,
- setting of the impact angle no longer required,
- a check of the device reliability can be performed during each impact, even without the calibration anvil.

Technical specifications

- Impact energy: 2.207 Nm
- Measuring range: from 10 to 100 N/mm^2
- High-contrast graphic display 128x64 pixel and 6 keys membrane keyboard
- Results are displayed as numerical and graphical format
- USB port and PC software
- Case dimensions: 280x100x390 mm
- Weight: approx. 2 kg

Ordering info

58-C0181/DGT

User programmable digital concrete hammer. 110-230V, 50-60Hz, 1Ph

Accessories

58-C0184

Calibration anvil.
Used for the periodical calibration of the concrete test hammer 58-C0181/C and 58-C0181/DGT. Made from special alloy steel.
Dimensions 150 mm dia. x 230 mm height.
Weight approx.: 16 kg

Rebound digital test hammer supplied complete with case (model 58-C0181/DGT)

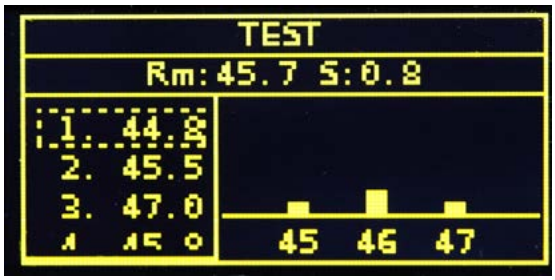
Rebound test hammer digital model 58-C0181/DGT

Example of digital hammer screen display - Main menu

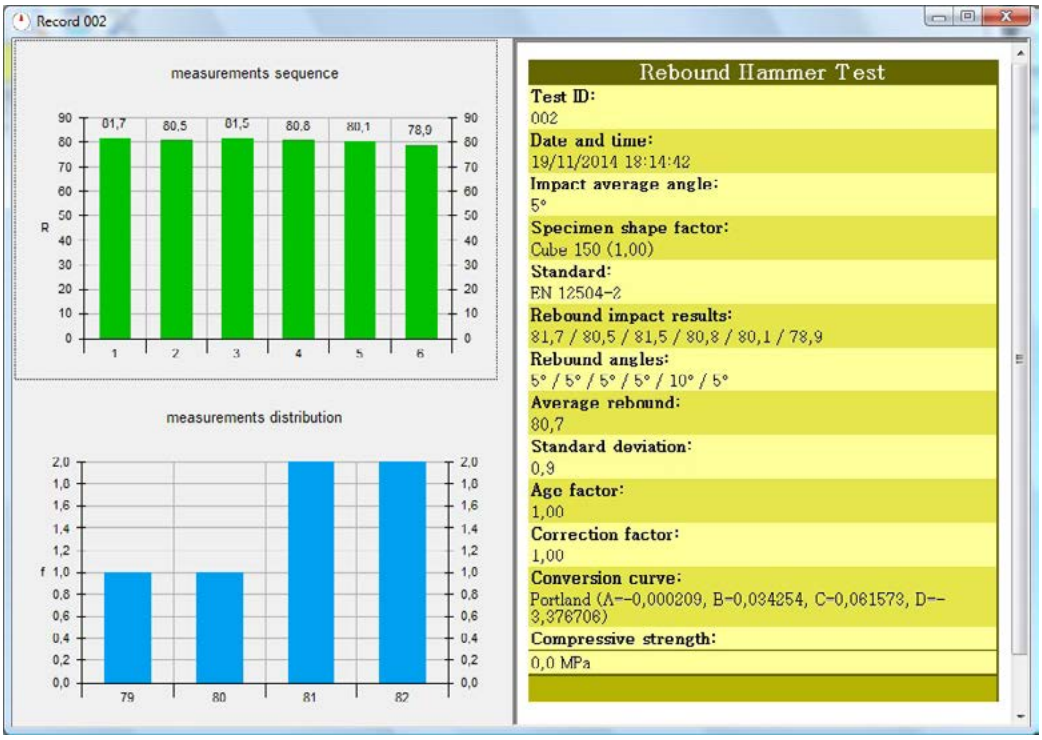
Example of digital hammer screen display - Selectable Standard

Example of digital hammer screen display - Measurement and indication of the exact instrument tilting angle by triaxial inclinometer

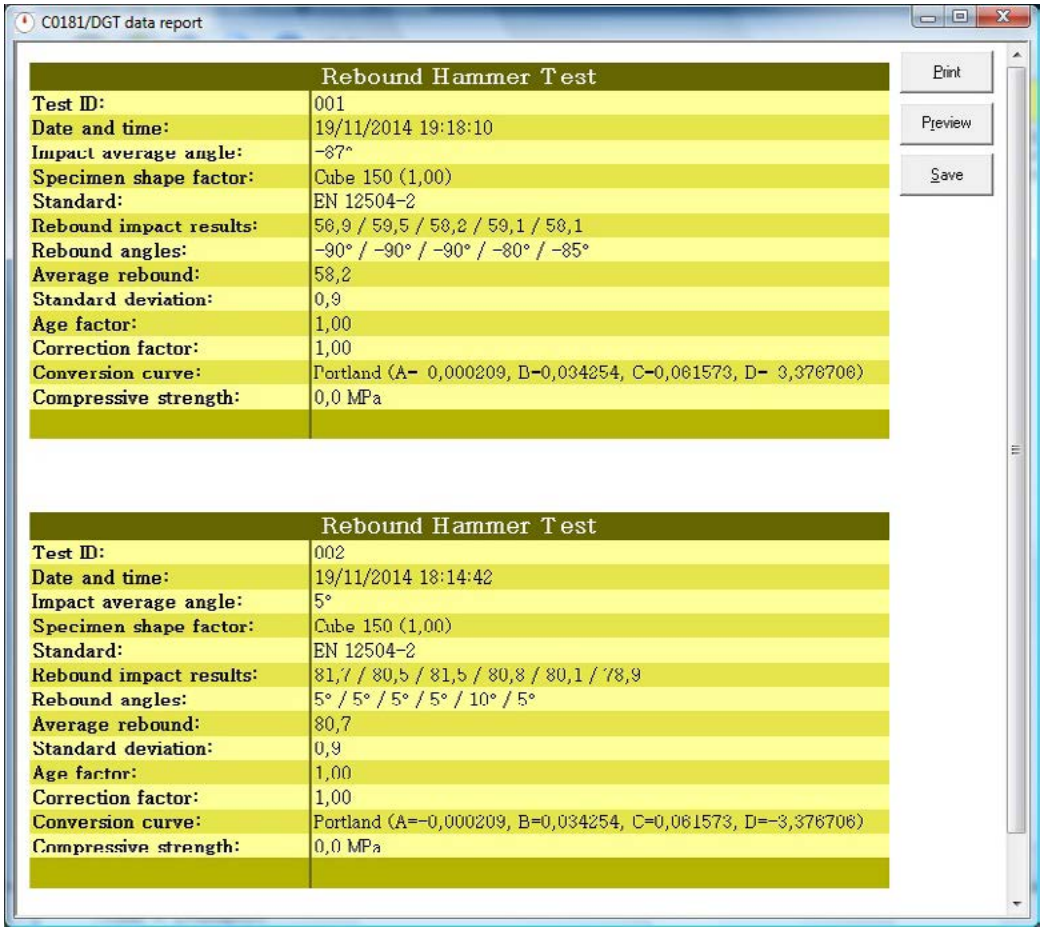
Example of digital hammer screen display - Test setup



Example of digital hammer screen display - Test results displayed as numerical and graphical format



Detail of test report downloadable to PC via dedicated software



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