

DIGITAL CONCRETE HAMMER

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 can provide an estimate of in situ compressive strength. The EN 13791 suggests the procedure for a specific correlation to the concrete under test.

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 test hammer 58-C0181/DGT is supplied complete with:

- Multi-voltage/frequency battery charger / with interchangeable plugs compatible with the mote common electrical sockets
- USB cable for PC connection
- Dedicated PC software
- Grinding stone
- Carrying case.

The present manual is valid for units having firmware version 1.22 or higher.



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SPECIFICATION

Product

Digital Concrete Hammer

Manufacturer	CONTROLS Cernusco s/N (MI) Italy
Product code	58-C0181/DGT
Power supply voltage	110-240V / 50-60Hz / 1Ph
Frequency	50/60 Hz
Method of power entry	External multirange charger with dedicated cable
Battery	Ion-Lithium 1600mAh
Impact energy	2.207 Nm
Measuring range	From 10 to 100 N/mm2
Internal memory	2 Mb
Display	Monochrome 128x64 pixel
Keyboard	Membrane- 6-key
Net weight (approx.)	1.3 Kg
Overall dimension with estende rod (approx.)	360 x 80 x 60 mm

Environmental conditions

Operating temperature	0 , + 40°C
Operating humidity	0-90%RH

FEATURES

- Impact energy: 2.207 Nm
- Measurement range: da 10 a 100 N / mm2
- High contrast graphic display 128x64 pixel and 6-key keyboard
- Test results in numerical and graphic format
- Test procedure according to EN 12504-2 and ASTM C805
- Test procedure can be customized by the user
- Memory storage capacity: 2 Mb
- Data saving and download to PC via USB port
- PC software included
- Integrated ion-lithium battery 1600 mAh capacity
- Measure and display of the test angle thanks to the integrated triaxial inclinometer
- Correlation curves between rebound index and compression resistance user- selectable
- Correlation curves between index and compressive strength user customizable
- Automatic conversion of rebound index and compressive strength equivalent MPa; N / mm2; kg / cm2, psi
- Calculation of means, standard deviations and discard of non significant values
- Verification of compliance with the standard in use
- Battery charger multi-voltage / multi-frequency: 110-240V / 50-60Hz / 1Ph
- Battery charge time: 4 hours. We recommend charging the battery even in case of limited use or after prolonged inactivity



