



ECTHA PRO

Digital Test Hammer

**Ectha PRO digital test hammer
is made in accordance with
all major global standards**

ISO/DIS 8045
EN 12 504-2
ENV 206
DIN 1048-2
BS 188-202
ASTM C 805
NFP 18-417, B 15-225
JGJ/T 23-2001
JJG 817-1993
JIS A 1155

Thanks to the new included icons, the **last version** of Ectha PRO test hammer has even more simple and intuitive navigation menu.

The new keyboard has been realized to better facilitate the cursor movement, by which the user can select all functions for setting the campaign investigations: the impact mode (single or average), type of correlation curve and the main elements for identifying the station test.

By simply sliding the cursor, the operator can visualize on the display the hits and their average, even in the form of graph.

One of the **new features** of the instrument is that the operator can choose the language among those available in the menu (Italian, English, French, Spanish).

By connecting Ectha PRO to the computer with the USB cable supplied with the instrument and simply selecting the USB command from the navigation menu, the operator can export all the data previously obtained and recorded into a xls file.



BLUETOOTH

Bluetooth system provided allows Ectha PRO interaction with the Ectha-R App (free download from Google Play or from www.drcitalia.it/area-download/).

The system enables automatic recording of the bounce rate values obtained in situ and their **immediate** sharing and printing through the use of mini BT portable printer (optional accessory).



RELIABILITY

Many years of DRC's experience in the production of test hammers guarantee measurements with the highest precision and reliability.

The implementation of the **new electronic board** and **firmware** have enabled us to boost the tool's performance: low-powered system and greater improved job autonomy.

All DRC products are constantly subjected to rigorous controls, from concept to fabrication, to testing, in order to ensure greater reliability and efficiency.



ERGONOMICS AND SUSTAINABILITY

Produced entirely in Italy with carefully selected materials and low environmental impact, Ectha PRO has an attractive and functional shape.

The new handle made of innovative materials has passed the **crash test** which it underwent, ensuring the functionality of the tool even in the event of accidental knocks or falls. Its handiness, ergonomics and easy of use make Ectha PRO the ideal solution for on-site applications.



FIELDS OF APPLICATION

- In test, verification of the concrete properties during construction
- Evaluation of how the concrete properties change in time
- Control of the concrete uniformity present in each part of the structure
- Evaluation of the concrete mechanical properties through the use of the correlation curves



ANDROID APPLICATION



Google play



The Ectha-R App is realized to support the recording operation of data previously acquired on site. The App is **free** from Google Play or from www.drcitalia.it/area-download/ and requires 4.3.2 Android version or higher.

The acquisition of the data can be done manually or in automatic mode. In both cases, the objective is to get:

- single rebound index value;
- number of hits carried out;
- average rebound index value;
- mechanical strength value stimated on correlation curves (Rck);
- the final report, using a portable mini-printer with Bluetooth connection

Using the Ectha PRO digital concrete test hammer, the data are transmitted automatically through the Bluetooth connection device which is fitted to the instrument (**Automatic mode**). The data are saved in the memory card of the concrete test hammer.

For mechanical concrete test hammers - without Bluetooth technology - the data must be entered manually (**Manual mode**).

The App defines the project through the following items:

- date;
- project number;
- working area;
- angle of hits.

The projects, containing all the acquired values, are recorded in a cvs file and saved in the device memory. The files can be viewed through appropriate applications and shared for following analysis.

In both manual and automatic modes, the rescue procedure and sharing are the same.

The operator can print the final report, which contains the rebound index values previously obtained on site. The App sends the print command - via Bluetooth connection - to a mini portable printer that can be used directly on site (optional accessory available for purchase at DRC).

Ectha W software is free from www.drcitalia.net and used to visualize the data and create the final report complete with all the information.





TECHNICAL SPECIFICATIONS

PERFORMANCE

MEASURE RANGE	5-120 N/mm ²
IMPACT ENERGY	2,207 Nm
LIMIT	Thickness > 100mm

PHYSICAL

DIMENSIONS	(A)320 x (B)65 x (C)80 mm
WEIGHT	1,4 Kg

MECHANICAL

EXTERNAL PART	Alluminium 6060 - 11S
INTERNAL ORGANS IMPACT	Anodizing oxidation OX
HEAT TREATMENT	NIT-OX
MOVEMENT ROD	Steel INOX 303
HANDLE	Glass-filled nylon



The kit includes:

- Ectha PRO digital test hammer
- Abrasion stone
- Plastic case for stone
- Plastic grid 30x30 cm
- Pencil
- Fenolftaleina 100ml
- Paper note
- Operating manual
- Calibration report
- Rechargeable feeder
- Rigid case IP67
- Mini portable printer (*optional*)

PACKAGE

DIMENSIONS	420 x 280 x 180 mm
WEIGHT	5,0 Kg

Warranty & Maintenance

24
months

DRC guarantees maintenance service at its center or at authorized centers

DRC
Diagnostic Research Company
Non Destructive Testing

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www.drcitalia.it