



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

Ectha PRO test hammer has a simple and intuitive navigation menu. By simply sliding the cursor, you have access to all the options you need to set campaign investigation options including the impact mode (single or average), type of correlation curve and the main elements for identifying the test station.

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



BLUETOOTH

One of the main new differences between Ectha PRO and previous models is the Bluetooth system provided. The system allows interaction with the Ectha R App (free download from Google Play) which enables automatic recording of the bounce rate values obtained in situ and their immediate printing through the use of mini BT portable printer (optional).



RELIABILITY

DRC's over thirty years of experience in the production of test hammers guarantees measurements with the highest precision and reliability. The implementation of the electronic board and the new feeding system allow for greater and improved job autonomy.



ERGONOMICS AND SUSTAINABILITY

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

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.

Ectha PRO is equipped with a new rigid case model IP67.

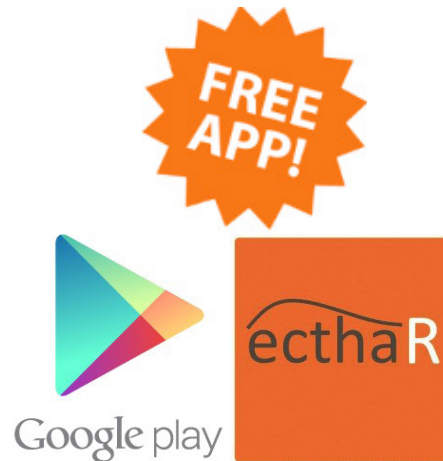
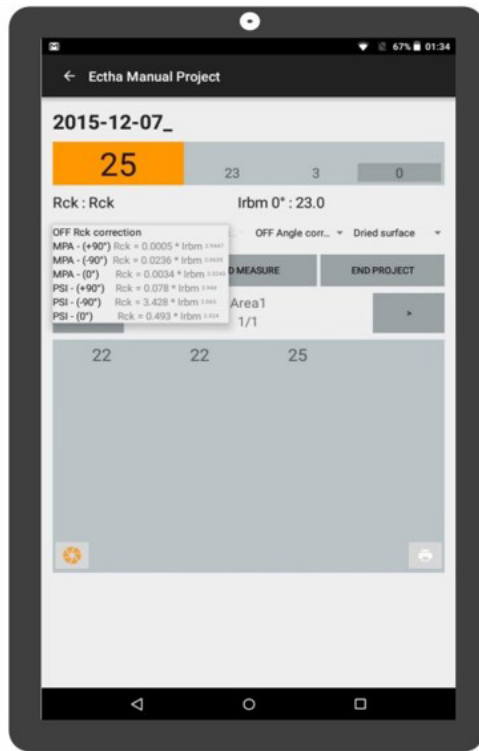


FIELDS OF APPLICATION*

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

* For the proper use of the equipment, see www.drcitalia.net - Download Area section WebHelp Area.

ANDROID APPLICATION



The Ectha R App is realized to support the recording operation of data acquired on site. The App is free on Google Play and requires 4.3.2 Android Version or higher.

Data can be acquired manually or in automatic mode. In both cases, the main aim is to get:

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

Using the digital concrete test hammer (Ectha Pro), 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 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 and angle of hits. The project, containing all the acquired values, is 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 mode, 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 (purchased at DRC).

Furthermore, the Ectha W software (download from www.drcitalia.net) is available to display the acquired 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





OPTIONAL



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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