

DRC

Diagnostic Research Company
Non Destructive Testing



ECTHA 1000

Mechanical Test Hammer

**Ectha1000 is made
in accordance with
all major global Standard**

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

DESCRIPTION

Ectha 1000 mechanical test hammer allows to carry out qualitative analysis of the concrete on site to estimate its mechanical properties. The sclerometric survey is based on the measurement of the surface hardness of the material, in terms of "rebound Index". This investigation is a Non Destructive Testing since it avoids causing damage and to stop the functionality of the structures.



RELIABILITY

All DRC products are constantly subjected to rigorous controls, from concept to fabrication, to testing. Thanks to the engage of DRC in R&D and collaboration with prestigious Italian and International Universities, Ectha 1000 confirms one of the most safe and efficient instruments among the Non Destructive Testing.



ERGONOMICS AND SUSTAINABILITY

DRC carefully selects its suppliers according to quality standards and environmental impact. The materials to produce the Ectha 1000 test hammer are the best available in the market. The instrument is made of a grip rubberized plastic to improve ergonomics and protect in case of accidental impacts. Ectha 1000 mechanical test hammer is entirely made in Italy.



FIELD OF APPLICATION

- Control of the concrete uniformity in each part of the structure
- Evaluation of the concrete mechanical properties through the use of the correlation curves
- Changes of the concrete properties in time
- Check of the concrete properties during building construction and in final testing.

TECHNICAL SPECIFICATIONS

PERFORMANCE

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

PHYSICAL

DIMENSIONS	300 x 70 x 70 mm
WEIGHT	1,3 Kg
PACKAGE WEIGHT	4,0 Kg
PACKAGE DIMENSION	340 x 280 x 180 mm

MECHANICAL

EXTERNAL PART	Alluminium 6060 - 11S
TREATMENT	Anodizing Oxidation OX
INTERNAL COMPONENTS	C 40
HEAT TREATMENT	NIT-OX
MOVEMENT ROD	Steel INOX 303
HANDLE	Hard Nylon
PAINTING	Soft orange colour

Android application



The ECTHA-R App is realized to support the recording operation of data acquired on-site.

The App is free and can be downloaded from Google Play and installed using 4.3.2, or higher Android Version.

The two modes of data acquisition (manual and automatic) allow to get the following values:

- single rebound index value
- number of hits carried out
- average rebound index value
- mechanical strength value (Rck) estimated on correlation curves
- print of the report through a portable mini-printer, using the Blue Tooth connection. The portable mini-printer can be purchased at the DRC Srl

The App allows to correctly define the project through the following items: date, project number, working area and angle of hits.

The projects, containing the acquired values, are recorded in a .csv file and saved on the device memory.

The project files can be viewed directly through appropriate applications and can be shared for following analysis.

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

ECTHA-R allows to print a report containing the index values acquired directly on site. The App sends the print command via Blue Tooth connection to a mini portable printer (purchasable at the DRC Srl).

It is also available the ECTHA-W software (downloading from www.drcitalia.net) to display the acquired data and create the final report, which contains all the acquired information.



Ordering Information

Article Code 01.DRC.0001



Accessories

- Abrasion Stone
- Plastic Case for Stone
- Plastic Grid 30 x 30
- Pencil
- Fenolftaleina 250ml
- Paper Note
- Operating Manual
- Calibration Report
- IP67 Rigid Case



Warranty & Maintenance

24
months

DRC guarantees maintenance service at its center or at authorized centers. Each equipment is covered by the standard warranty DRC (2 years).

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