



# ECTHA 1000

## MECHANICAL TEST HAMMER

**The Ectha1000 mechanical test hammer  
is made in accordance with  
all major global standards**

ISO/DIS 8045:EN 12 504-2  
ENV 206  
DIN 1048 parte 2  
BS 1881 parte 202  
ASTM C 805  
NFP 18-417, B 15-225  
JGJ/T 23-2001  
JJG 817-1993

The Ectha1000 mechanical test hammer can be used for qualitative analysis of concrete on site to estimate its mechanical properties.

The sclerometric survey is based on measurement of the surface hardness of the material in terms of the rebound index.

This is a Non-Destructive Testing method, since it avoids damage and the need to halt operation 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 the collaborations with prestigious Italian and International Universities, the Ectha 1000 confirms one of the most safe and efficient instrument in the Non-Destructive Testing sector.



## ERGONOMICS AND SUSTAINABILITY

DRC carefully selects its suppliers according to quality standards and environmental respect. The materials, used to produce the Ectha1000 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.

The Ectha1000 mechanical test hammer is entirely made in Italy.

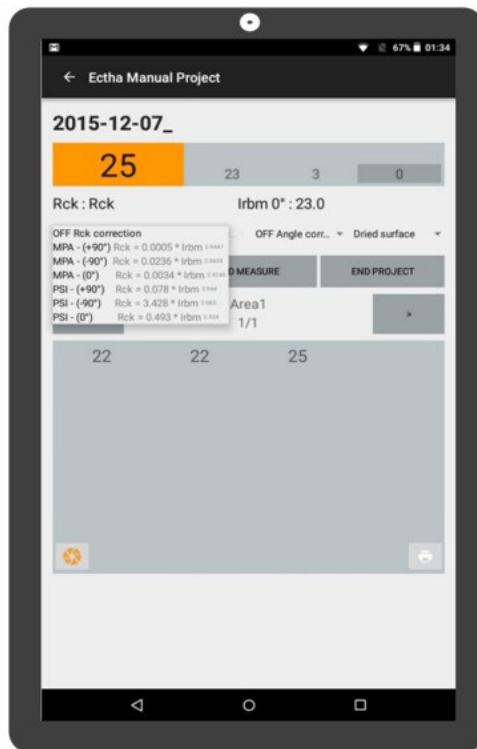


## FIELDS OF APPLICATION \*

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

\* For the proper use of the concrete test hammer, see [www.drcitalia.net](http://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](http://www.drcitalia.net)) is available to display the acquired data and create the final report complete with all the information.

TECHNICAL SPECIFICATIONS

PERFORMANCE

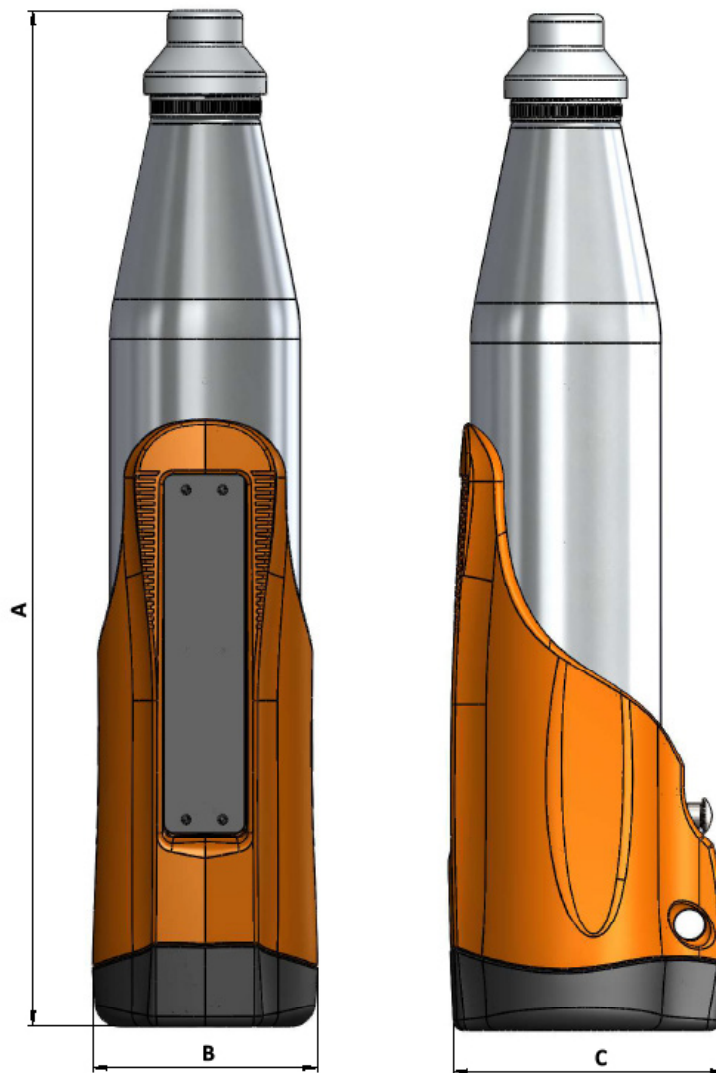
RANGE	5-120 N/mm <sup>2</sup>
IMPACT ENERGY	2,207 Nm
LIMIT	Thickness > 100mm

PHYSICAL

DIMENSIONS	(A)300 x (B)70 x (C)70 mm
WEIGHT	1,3 Kg

MECHANICAL

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





#### THE KIT INCLUDES:

- Ectha1000 mechanical test hammer
- Abrasion stone
- Plastic case for stone
- Plastic grid 30x30 cm
- Pencil
- Fenolftaleina 100ml
- Paper note
- Operating manual
- Calibration report
- Rigid case IP67

#### PACKAGE

DIMENSIONS	340 x 280 x 180 mm
WEIGHT	4,0 Kg

#### WARRANTY & MAINTENANCE

24  
months

DRC guarantees maintenance service at its center or at authorized centers.

**DRC**  
Diagnostic Research Company  
Non Destructive Testing

For ordering information please contact:

DRC srl  
Via Montescuro snc  
60131 Ancona - Italy  
Phone: +39 071 8036077  
e-mail: info@drcitalia.net



[www.drcitalia.it](http://www.drcitalia.it)