



# GEOHAMMER

## Rock Test Hammer

**The Geohammer rock test hammer** ISO/DIS 8045  
**is made in accordance with** EN 12 504-2  
**all major global standards** ASTM D5873-14

The Geohammer mechanical rock test rebound hammer was created in the DRC research laboratories, as the result of experimentation carried out in collaboration with the Università Politecnica delle Marche, where different families of stone materials were examined. The Geohammer mechanical rebound hammer is the only instrument available on the market today that can provide correlation between the rebound hardness scale values measured and the compression resistance of the rock tested.

The Geohammer rock rebound hammer is an easy to use instrument that produces accurate and reliable data about the quality of the material tested.



## 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, Geohammer confirms one of the most safe and efficient instruments among the Non Destructive Testing sector.



## ERGONOMICS AND SUSTAINABILITY

DRC carefully selects its suppliers according to quality standard and environmental respect.

The materials used to produce the Geohammer 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 Geohammer mechanical test hammer is entirely made in Italy.



## FIELDS OF APPLICATION \*

- Qualitative surveys of the state of rock material homogenization
- Evaluation of rock material alteration
- Assessment of the JCS coefficient (Joint wall compressive strength)
- An estimate of the rate of penetration for mechanical milling at full section

\* For the proper use of the rock 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).

## TECHNICAL SPECIFICATIONS

### PERFORMANCE

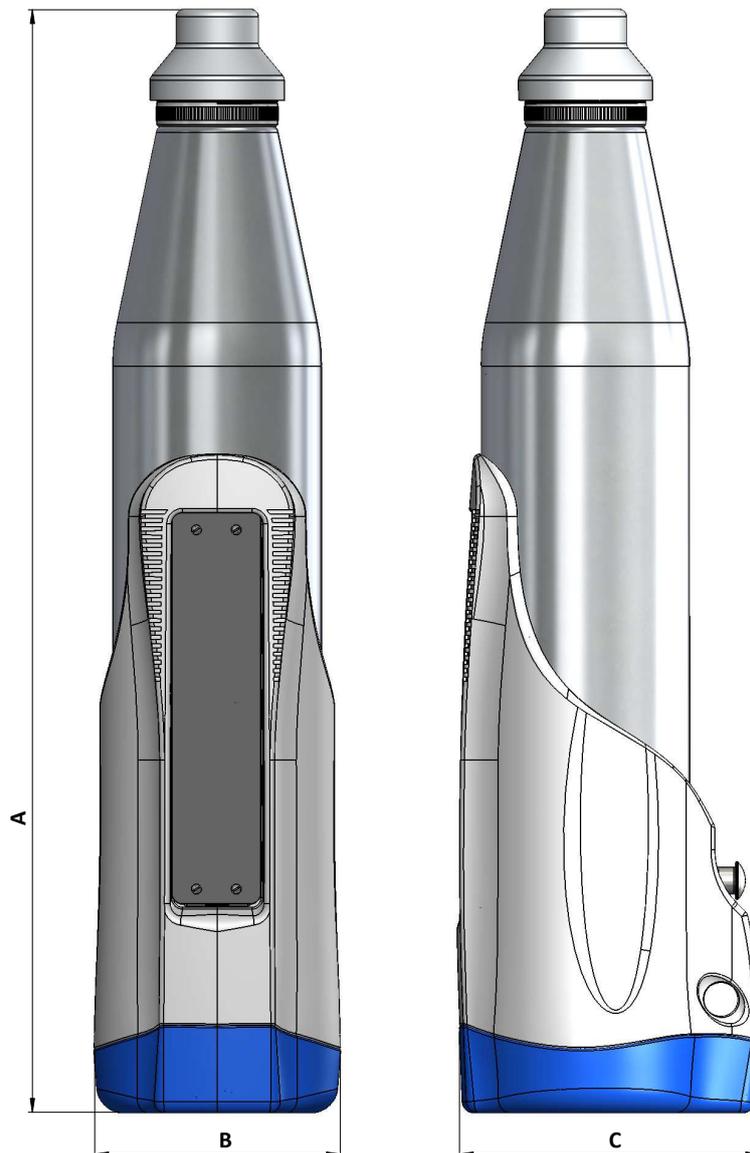
|                      |                          |
|----------------------|--------------------------|
| RANGE OF MEASUREMENT | 10-200 N/mm <sup>2</sup> |
| IMPACT ENERGY        | 0,735 Nm                 |
| LIMIT THICKNESS TEST | Thickness > 60mm         |

### PHYSICAL

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

### MECHANICAL COMPONENTS

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





### The kit includes:

- Rock Hammer Geohammer
- Abrasion stone
- Plastic case for stone
- Plastic grid 30x30 cm
- Pencil
- 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:

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