



SM

Concrete Test Hammer

**The SM concrete 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 SM 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 SM test hammer confirms one of the most safe and efficient instrument in the Non-Destructive Testing sector.



QUALITY ASSURANCE AND SUSTAINABILITY

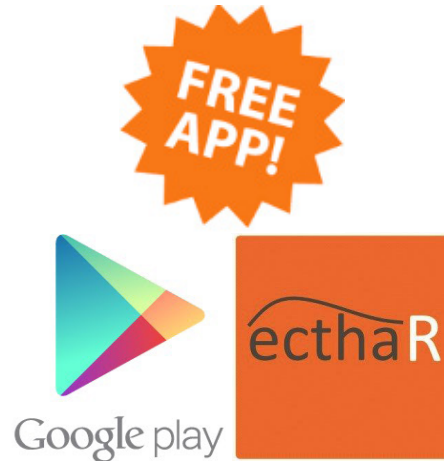
DRC carefully selects its suppliers according to quality standards and environmental respect. The materials, used to produce our test hammers, are the best available in the market. The SM mechanical test hammer is entirely made in Italy.



FIELDS OF APPLICATION

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

ANDROID APPLICATION



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).



Ordering Information

Article Code PRF0236DRC

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	1,2 Kg

MECHANICAL

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



The kit includes:

- Concrete Test Hammer SM
- Abrasion stone
- Plastic case for stone
- Operating manual
- Calibration report
- Soft tubular case

PACKAGE

DIMENSIONS	180 x 180 x 330 mm
WEIGHT	1,5 Kg



Warranty & Maintenance



Ingeniería e Instrumentación

DRC
Diagnostic Research Company
Non Destructive Testing

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