| **Product Name :** Digital Concrete Schmidt Hammer | **Product Code :** ASTConcrete-0048 |
|---|---|
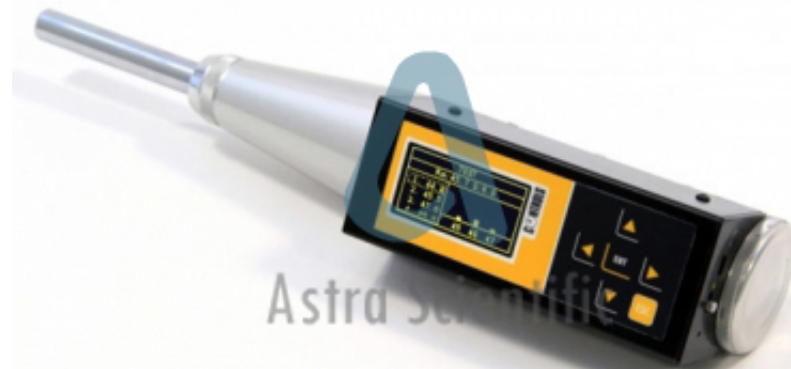


**Description :**

Digital Concrete Schmidt Hammer

**Technical Specification :**

General description:

The rebound number determined by this method can be used to assess the uniformity of concrete in situ, to delineate zones or areas of poor quality or deteriorated concrete in structures. This NDT test method is not intended as an alternative for the compressive strength determination of concrete, but with suitable correlations already saved in the instrument, it provides an estimate of the in situ compressive strength. The hammer may be used for comparative testing, referenced against a concrete with known strength or against a concrete verified as conforming to a particular strength class. The rebound hammers measure the rebound of an anvil impacting a plunger in contact with the concrete surface. With this advanced instrument the rebound value is calculated with an innovative technology taking into account the anvil speed before and after the impact.

This new working principle is equivalent to the traditional measurement of maximum spring length after the impact, but it provides the following

benefits:

- higher accuracy and stability of the readings not affected by wear and tear

- setting of the impact angle no longer required

- a check of the device reliability can be performed during each impact, even without the calibration anvil.

- Test procedure conforming to EN 12504-2 and ASTM C805

- Measuring range: from 10 to 130 N/mm2

- Allows to generate customized test procedure

- Storage capacity 2 Mb

- Saves, displays and downloads data to PC via USB port

- PC software included

- Integrated rechargeable lithium ion battery of 1600 mAh and multi-voltage / multi-frequency battery charger

- Measurement and indication of the exact instrument tilting angle by triaxial inclinometer

- Multiple correlations between rebound index and compressive strength selectable by the user

- These correlations can be also customized

- Automatic conversion of rebound index to equivalent compression strength in MPa, N/mm2, kg/cm2, psi

- Calculation of averages and standard deviations; discard of non-significant values

- Immediate verification of compliance to the Standard in use

- Battery life under continuous operation more than 10 hours



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