



TQC Sheen Concrete Inspection Hammer (Mechanical)

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Brought to you by TQC Sheen, our paint testing specialist brand, the Concrete Inspection Hammer is a precision tool designed for on-site, non-destructive testing (NDT) of concrete and construction materials. This advanced instrument, developed through collaborations with top Italian universities, combines reliable testing based on 25 years of expertise with ergonomic, durable design for ease of use and longevity. It accurately measures compressive strength using up-to-date correlation curves, meeting UNI EN 12504-2 and ASTM C805 standards.

Non-Destructive Testing Process

Also known as a sclerometer or rebound hammer, this device measures concrete strength by striking the surface and recording the rebound, providing reliable compressive strength data without damaging the material. The hammer measures compressive strength from 5 to 110 N/mm², making it ideal for assessing built-in materials without the need for lab-based testing.

Compressive Strength Measurement

Designed to account for factors like aggregate size, water-cement ratio, and density, the hammer determines compressive strength classes for both standard and heavy aggregate concrete. It features scientifically validated methods to ensure traceability and accuracy in readings, with conversion tables available in kg/cm², psi, and MPa for versatile results. Additionally, an optional test anvil accessory is available for accuracy verification.

Key features

The durable LD0500 model, also known as a rebound or Swiss hammer, is calibrated for accuracy and suited for concrete, rock, and other building materials, making it a rugged, reliable choice for challenging environments. It also includes functional accessories for fast, direct on-site surveys.

Ideal for:

Inks & Coatings, Construction

Standards:

ASTM C805 & UNI EN 12504-2

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Ordering Information:

Catalog Number Article Description

LD0500	Concrete Inspection Hammer
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Features:

- Ergonomic, durable design for ease of use and longevity
- Up-to-date correlation curves for precise strength measurement
- Measures compressive strength from 5 to 110 N/mm²
- Scientifically validated, ensuring traceability and accuracy
- Includes functional accessories for fast, direct on-site surveys
- Conversion tables in kg/cm², psi, and MPa for versatile readings
- Optional test anvil accessory available for accuracy verification

Technical Specification:

Measurement range:	5 to 110 N/mm ²
Measurement Method:	Rebound (sclerometer) method with SonReb enhancements
Limitations:	Sp.; >100mm
Test Sample Compatibility:	200x200mm cubic samples, standard and heavy aggregate concrete
Calibration:	Manufacturer-calibrated for durability and accuracy
Weight:	1,8 Kg
Test range	2.207 J or N-m / 1.6278 ft-lb
Impact stroke:	75 ± 0.3 mm / 2.95 ± 0.012 in
Radius of spherical tip:	25 ± 1 mm / 0.99 ± 0.04 in

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