Schmidt Hammer
Concrete Rebound Hammer

LT-C0150–LT-C0155 | Mechanical, digital and PC-connected options

Portable operation • Reference anvil checks • Concrete surface comparison



2.207 J

N-TYPE IMPACT ENERGY

6 models

OPTIONS IN THE PRODUCT RANGE

EN 12504-2 • ASTM C805 / C805M • Rebound testing of hardened concrete

Photographs and Components

Impact tip, digital display, control buttons and carrying set

The Schmidt hammer range evaluates the rebound response of hardened concrete surfaces. Mechanical and digital options support comparison of different areas and identification of locations requiring further investigation.

IMPACT TIP

The steel plunger contacts concrete. Hold the impact direction perpendicular to the surface and select a suitable area.

DIGITAL DISPLAY

Readings on the pictured digital instrument are viewed on its display. Assess result and recording functions by model.



CONTROL BUTTONS

Front buttons manage settings and readings on the digital unit. Follow the model instructions before measuring.

SET ACCESSORIES

The photograph includes cable and power accessories. Digital connection and supply arrangements depend on the model.



Examples of mechanical and electronic hammers

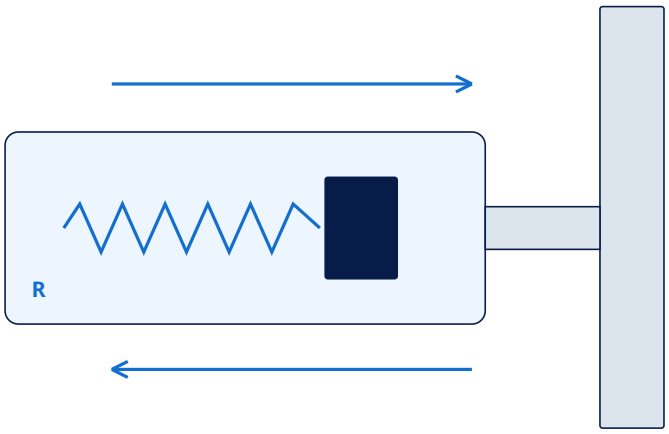


Digital hammer and carrying-case arrangement

N-Type Rebound Principle

Prepare surface • Align hammer • Apply impact • Evaluate the reading series

MECHANICAL N TYPE • SCHEMATIC IMPACT



R: MECHANICAL REBOUND NUMBER

IMPACT AND REBOUND • SURFACE COMPARISON

SCHEMATIC VIEW • NOT TO SCALE

Prepare the Surface

Select a clean, suitable area. Remove loose material and use a surface preparation stone where needed.

Apply the Impact

Hold the hammer perpendicular to the surface. Press the plunger steadily and record the reading after impact.

Evaluate the Series

Take the readings required by the method. Assess valid readings with impact direction and surface conditions.

In a mechanical N-type hammer, a spring mechanism generates impact and rebound movement is read as R. A rebound value is not a direct compressive strength result. Strength estimation requires a suitable relationship developed for the concrete and instrument.

N Type and Model Selection

The N-type model operates with 2.207 J impact energy. The stated approximate 10–70 N/mm^2 application range does not mean direct strength measurement.

The series includes mechanical, Digi-Schmidt, Silver Schmidt and digital options. LT-C0153 offers PC connection. Organise readings, records and connections to the instructions for the selected model.

Anvil Checks and Measurement Records

Check hammer performance on a reference anvil. Compare readings before and after testing with the manufacturer's range; investigate unsuitable results.

Moisture, carbonation, aggregate and impact direction can influence rebound values. Record location and conditions. Rebound results alone must not be used to accept or reject concrete.

Models and Technical Specifications

LT-C0150–LT-C0155 • Model options, overall dimensions and weights

Product Code	Model / Instrument	Dimensions (cm)	Weight (kg)	Feature
LT-C0150	Schmidt N Type	35 × 18 × 10	2	Standard model
LT-C0151	Schmidt Hammer	30 × 15 × 40	4	Made in Italy
LT-C0152	Digi-Schmidt	30 × 15 × 40	4	Proceq
LT-C0153	Silver Schmidt	30 × 15 × 40	4	PC connection
LT-C0154	Schmidt Hammer	30 × 15 × 40	4	Proceq
LT-C0155	Digital Schmidt	30 × 15 × 40	4	Made in Italy

Method / Application Detail	Value / Description
N-Type Impact Energy	2.207 J
N-Type Application Range	Approximately 10–70 N/mm²
Mechanical Model Result	Rebound number, R
Rebound Test References	EN 12504-2; ASTM C805 / C805M
Strength Assessment Reference	EN 13791

Rebound Number and Strength Estimation

Compare readings under similar surface and impact conditions. Use a correlation suitable for the concrete and instrument when estimating strength; assess a series of readings.

Concrete Surface Measurement Workflow

01
Check
Complete anvil verification and instrument setup.

02
Prepare Surface
Select and clean a suitable test area.

03
Measure and Record
Maintain direction and collect the reading series.

04
Evaluate
Review valid readings with operating conditions.

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