

IDM[®]

instruments

original schmidt



Concrete testing with the ORIGINAL SCHMIDT Hammer is the most frequently used method worldwide for non-destructive testing of concrete and structural components. Each hammer is designed for specific test applications.

Standards:

- ISO/DIS 8045
- ENV 206
- ASTM C805
- NFP 18-417
- JGJ/T 23-2001
- EN 12 504-2
- DIN 1048 part 2
- ASTM D5873
- B 15-225
- JJG 817-1993

Model: 31001001 Original Schmidt Hammer Type N

- Measuring range: 10 to 70 N/mm² compressive strength (below 25N/mm² type P is better suited)
- Impact Energy: 2,207Nm
- Rebound values are read from a dial
- Example picture: Testing the compressive strength of a prefabricated concrete girder. Rebound values are recorded by an assistant who will calculate mean values and read compressive strength values from a conversion diagram



Model: 31002000 Original Schmidt Hammer Type NR

- Measuring range: 10 to 70 N/mm² compressive strength
- Impact Energy: 2,207Nm
- Rebound values are recorded as a bar chart on a paper strip. One roll of paper strip offers space for 4000 test impacts
- Example picture: A bridge concreted in several stages is tested for uniform concrete quality. The engineer will perform a series of tests in intervals of 10m each.



Model: 31003002 Original Schmidt Hammer Type L

- Measuring range: 10 to 70 N/mm² compressive strength
- Impact Energy: 0,735Nm
- Rebound values are read from a dial
- Example picture: These types are used for testing thin wall (<100mm) or small components, as well as cast stone components sensitive to impact



Model: 31004000 Original Schmidt Hammer Type LR

- Measuring range: 10 to 70 N/mm² compressive strength
- Impact Energy: 0,735Nm
- Rebound values are recorded as a bar chart on a paper strip
One roll of paper strip offers space for 4000 test impacts
- Example picture: These types are used for testing thin wall (<100mm) or small components, as well as cast stone components sensitive to impact



Model: 31003001 Original Schmidt Hammer Type LB

- Dimensions as per type L unit
- Impact Energy: 0,735Nm
- Example picture: These types are used for testing burnt clay products



Model: 34000202 Digi-Schmidt 2000 Type ND

- Measuring range: 10 to 70 N/mm² compressive strength
- Rebound values are measured by an electronic method and may be read directly as compressive strength values
- Example picture: Data transmission to PC with evaluation software (additional conversion curves, reduction factor for carbonated surface, form factors)





Model: 34000211 Digi-Schmidt 2000 Type LD

- Measuring range: 18 to 70 N/mm² compressive strength
- Rebound values are measured by an electronic method and may be read directly as compressive strength values
- Example picture: Data transmission to PC with evaluation software (additional conversion curves, reduction factor for carbonated surface, form factors)



Model: 31006002 Pendulum Hammer Type PM

- This hammer is well suited for testing mortar in joints of brick walls
- A classification of the mortar quality is provided based on excessive test performance at the Technical Institute in the Netherlands



Testing Anvils

- Each test hammer should be checked after 1,000 test impacts. A testing anvil is used to check whether the rebound test mechanism is working correctly. In case of values beyond the tolerance (due to contamination by very fine cement, wear or defects) cleaning or inspection will be required.



All impact devices come complete with:

- Carry case
- Grinding Stone
- Operating Instructions
- Calibration Certificate

Type NR and LR devices also include:

- 3 rolls of registration paper



Digi-Schmidt devices also include:

- Indicating device and cable