

Schmidt Hammer

ORIGINAL SCHMIDT

The classic ORIGINAL-SCHMIDT concrete test hammer is equipped with a sensor which measures the rebound value of a test impact to a high resolution and repeatability. Rebound is an effective non-destructive measurement of the concrete compressive strength (to within 20%) and control of the uniform concrete quality (in-situ concrete and prefabricated structures).

TYPE N

This is the workhorse of the range. With a measuring range 10 to 70 MPa compressive strength and impact energy of 2.2J, this hammer is sufficient for most engineering applications. Rebound values are read from a dial and converted to compressive strength using the graphic above it.



SCHMIDT Hammer Type N

TYPE L

Also with a measuring range 10 to 70MPa compressive strength, this hammer has an impact-energy, which is three times smaller than the Type N. These types are used for testing thin walled (< 100 mm) or small components but also cast stone components sensitive to impact.



SCHMIDT Hammer Type L

DIGI-SCHMIDT 2000

The Digi-Schmidt replaces the mechanical gauge with an electrical transducer and therefore digitizes the process. Operating is menu-guided in different languages. The DIGI-SCHMIDT 2000 is available in two versions:

- Type ND- suitable for use on concrete components of 100 mm thickness or more
- Type LD- suitable for use on concrete components of thickness less than 100mm and on cast stone material

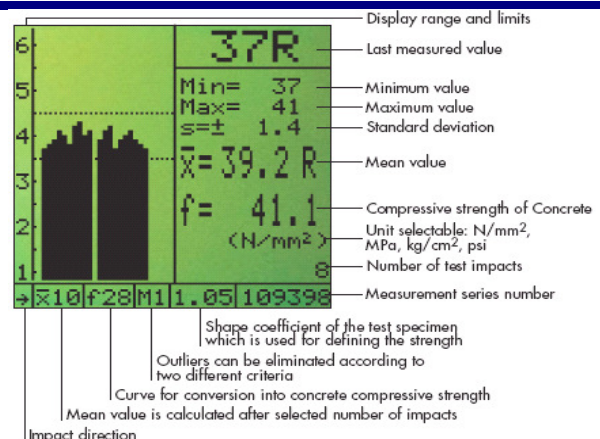


DIGI-Schmidt 2000

The DIGI-SCHMIDT has these special features:

- Multiple statistical functions set by user.
- By entering the depth of carbonation, the conversion of rebound value to the compressive strength is automatically compensated.
- Multiple conversion tables to give greater accuracy of measurement.
- Compatible with TICO Ultrasonics to give strength to 10% accuracy.
- Data-Transfer to PC/printer

DISPLAY



| Test Hammer | Type ND | Type LD |
|-----------------------------------|----------------|----------------|
| Impact energy | 2.207 Nm | 0,735 Nm |
| Compressive Strength Range | 10 to 70 N/mm2 | 10 to 70 N/mm2 |
| Accuracy of measurement | ± 0.2 R | ± 0.2 R |
| Reproducibility | ± 0.5 R | ± 0.5 R |

- Display unit with non-volatile memory for max. 500 measurement series of 10 values each, graphic LC-Display 128 x 128 Pixel.
- Interface RS 232.
- Integrated software for printing the measured values and transmitting to PC.
- Transfer cable for PC, test hammer cable, grind stone, carrying straps, operating instructions, certificate, protection sleeve and carrying case
- 325 x 295 x 105 mm, total weight 3 kg.

ALL NEW SILVER SCHMIDT

The Silver Schmidt is a revolutionary development in Schmidt Hammers. The Silver Schmidt uses the new "Q"-value [=rebound velocity divided by inbound velocity]. It is virtually free of all the above error sources (direction or internal friction). It is thus the indicator of choice to be used as a basis to convert to compressive strength. It can be simply converted to the classic "R"- value. The Silver Schmidt has these special features:

- Simple operation with the "one button" user interface
- Conversion curves are provided for a wide range of compressive concrete strength, including low and high strength concrete $f_c < 10$ MPa and up to 170MPa.
- Low power consumption, high capacity lithium-ion battery
- Tightly sealed instrument providing a higher number of impacts without servicing



Silver Schmidt

TYPE NR AND LR

With this model Rebound values are recorded as a bar chart on a paper strip. One roll of paper strip offers room for 4000 test impacts.



SCHMIDT Hammer Type *R

TEST ANVILS

Each test hammer should be checked after 1000 test impacts. A testing anvil is used to check whether the rebound test mechanism is working correctly. Cleaning or inspection will be required in case of contamination by very fine cement or due to wear.



Calibration Anvil

SUPPLIED WITH

All types will be supplied in a carrying case including a grinding stone and operating instructions.

ABOUT PCTE

PCTE have over 30years experience in the measurement and testing of concrete. With experience in research, consulting and construction they are able to assist you in reviewing the issues and developing solutions. PCTE can provide more than just the equipment. They can provide leading technical support for your business.

OTHER EQUIPMENT

The full Proceq range of equipment is available for insitu non-destructive concrete measurement Ultrasonic testing, Electrical potentials, Concrete Resistivity, Permeability, Absorption, Maturity Loggers, GPR Impact Echo