

NDT / Protection and repair of concrete structures

Strength evaluation
Concrete test hammers

58-C0181/G

Digital concrete test hammer

General description and specifications

This new and advanced model of digital concrete hammer microprocessor operated consists of the standard unit similar to the model 58-C0181/N but equipped with an electronic transducer which converts the rebound of the hammer into an electric signal and displays it in the selected stress unit.

The digital hammer, which is battery operated, can be easily connected to a PC or serial printer via the RS 232 port. A large permanent memory can store up to 5000 results. Supplied complete with battery charger and serial cable.



Technical specifications

Impact energy: 2.207 Nm

Measurement range:
from 10 to 70 N/mm²

Display 2x16 characters

Accuracy: ± 0.1 R

Power: integrated rechargeable battery

Autonomy (non continuous use):
>5 hours

Memory: up to 5000 tests

Output RS 232 serial port

Automatic shut down

Dimensions (with case):
190x100x350 mm

Weight approx.: 2 kg

The hammer is supplied complete with:
Battery charger with cable, serial cable for PC, abrasive stone, instruction manual, and rigid carrying case.

Main features

- High resolution and accuracy
- Possibility to store, display and download data to PC
- Automatic conversion of rebound index to equivalent compression strength in N/mm², kg/cm² or p.s.i.
- Several correlation curves between rebound index and compressive strength with possibility of user defined curves

- Calculation of mean and standard deviation and elimination of non significant values
- Numerous parameters allow optimisation of accuracy
- Automatic statistical processing of readings
- Rapid and simple calibration procedure
- Powered by internal rechargeable battery
- Storage up to 5000 tests
- Complete with traceable certificate of calibration



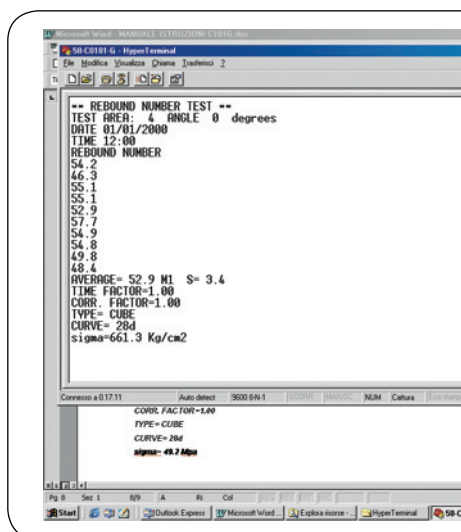
58-C0181/G

Accessories

- 82-P0172/A Serial printer with rechargeable internal battery or standard battery

NOTE

The calibration anvil is the same proposed for the 58-C0181/N test hammer.



Detail of test report downloaded to PC

EXAMPLE OF SCREEN DISPLAY

Digital Concrete Hammer CE
S= 2.0 Rm=57.4
s=9059.7 Psi
CONTROLS

Digital Concrete Hammer CE
Reb. 53.7 n. 10
s=11.1 Rm=50.0
CONTROLS

Digital Concrete Hammer CE
Test 002 Ang. 0
TYPE=CYLINDER
CONTROLS

Digital Concrete Hammer CE
S= 4.9 Rm=53.4
s=55.8 N/mm2
CONTROLS