

Elcometer 181 Mechanical Concrete Test Hammer



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At a glance

Low cost method to estimate the strength and quality of concrete

Simple to use, immediate results

Elcometer 181 Mechanical Concrete Test Hammer

This simple to use gauge consists of a spring loaded plunger which, when released, strikes the surface with fixed and constant impact energy. During the rebound stroke, the mass moves a pointer that indicates the maximum point of return and at the same time indicates a reference value called Rebound Number.

This number, converted by the correlations available on the hammer, gives the compression resistance value in respect of the impact angle.

- Impact Energy 2.207 Nm
- Supplied with abrasive stone to prepare test surface
- Aluminium body
- Rebound value indicated on test hammer
- Rebound value chart on body, for quick calculation of compressive strength
- Curve selection on chart dependant on testing angle

Concrete Test Hammers

Test hammers are used to determine the surface hardness of concrete and are one of the most widely used instruments in the field of non destructive testing (NDT) of concrete compressive strength. It is the quickest, simplest and least expensive method to obtain an estimate of the quality and strength of the concrete.

Both mechanical and digital test hammers are available.

Can be used in accordance with:	
ASTM C805	EN 12504-2
BS 1881:202	DIN 1048
ISO 8045	NFP18-417
UNI 9189	

Impact Energy	2.207 Nm
Accuracy	Better than +/- 2 Rebound Number (When tested on Calibration Anvil at 80)
Resolution	2 Rebound Number(s)
Range	10 to 100 Rebound Number
Dimensions	Hammer: 280mm (11.02") length x 55mm (2.17") diameter In Case: 350mm (13.78") length x 80mm (3.15") diameter
Weight	1.5kg (3.3lbs) with case

Model	Description	Part Number
Elcometer 181/1	Elcometer 181 Mechanical Concrete Test Hammer – MPa/PSI Scale	W181----1
Accessories	Calibration Certificate	TWCAL-181
	Calibration Anvil (supplied complete with Test Certificate)	TW99919563
Packing List	Elcometer 181 Mechanical Concrete Test Hammer, Plastic storage case, Grinding stone & Operating instructions	

Related Products



Elcometer 182

The digital and more advanced version, is equipped with an electronic transducer which converts the rebound values into a reading on the digital display. It displays a range of statistics and there is a facility to download to a PC.

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