HT225A Portable Concrete Test Hammer

The HT 225A is comparable with the Schmidt Hammer, Type N
Conforms to ISO.8045, BS1881 part 202, ASTM-C.805, DIN 1048,
EN 12504-2, NF.P.18-417, UNE-83.307, UN9189

Features

The HT 225A Concrete Test Hammer is designed specifically for the non-destructive testing of concrete structures. This method has considerable advantages over conventional methods of assessing the compressive strength of concrete in that **large areas can be tested in a very short time at a very low cost.**

In addition it is possible to determine the variation in concrete quality between different sections of a structure.

The above standards refer to assessment of the rebound hardness of mortar which is directly related to the compressive strengths of the material being tested.

Testing Principle

The device is loaded by gently pressing the tip of the impact plunger against a solid surface, it then slides out of the housing until it is fully extended. The plunger is then pressed against the surface to be tested which fires a percussion weight against the rear of the plunger and rebounds.

The rebound is dependant upon the hardness of the surface under test, the harder the surface the higher the rebound and visa versa. The maximum height of rebound is recorded on a scale which represents the rebound as a percentage of the forward movement of the percussion weight. The rebound number obtained with the HT 225A can be converted to a compressive strength value via conversion tables contained in the user manual. The conversion varies with the angle of test, therefore values must be corrected for those other than the standard horizontal direction. The various angular corrections are also shown in a table in the user manual.

Technical Specifications

Normal Kinetic Energy	2.207J (0.225kgf/m)
Flip tension spring rigidity	7.84N (0.80kgf/cm)
Punch advance for imapact hammer	75mm
Impact surface hardness value between impact hammer and rod	HRC59-63
Maximum breakout friction of pointer system	0.49 - 0.78N (50-80g)
Meanvalue of steel-anvil rating of concrete test hammer	80+-2
Dimension	60x280mm
Weight	1kg

Packing List

- HT225A Unit
- Carborundum Stone
- Operating Instructions including Conversion Tables
- Protective Wooden Box

Calibration Certificate available on request – see example below

Example of Calibration Certificate :

CALIBRATION REPORT NO. 1393

Model :	Impact Hammer	Date :	21 Oct 02
Type :	Type N		
S/No :	160202		
Desired Reading :	79 +/-2		
Average Reading :	79		

Reading	***Test 1***	***Test 2***	***Test 3***	***Test 4***	***Test 5***
1	79	78	78	78	79
2	80	79	78	78	78
3	79	79	79	79	79
4	80	79	80	79	79
5	79	78	78	79	79
6	78	80	79	78	78
7	79	79	78	80	80
8	79	78	79	79	79
9	80	79	78	79	78
10	79	80	79	78	79
Average per Test	79	79	79	79	79

Technician : _____

Technical Manager : _____