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Technical Brochure

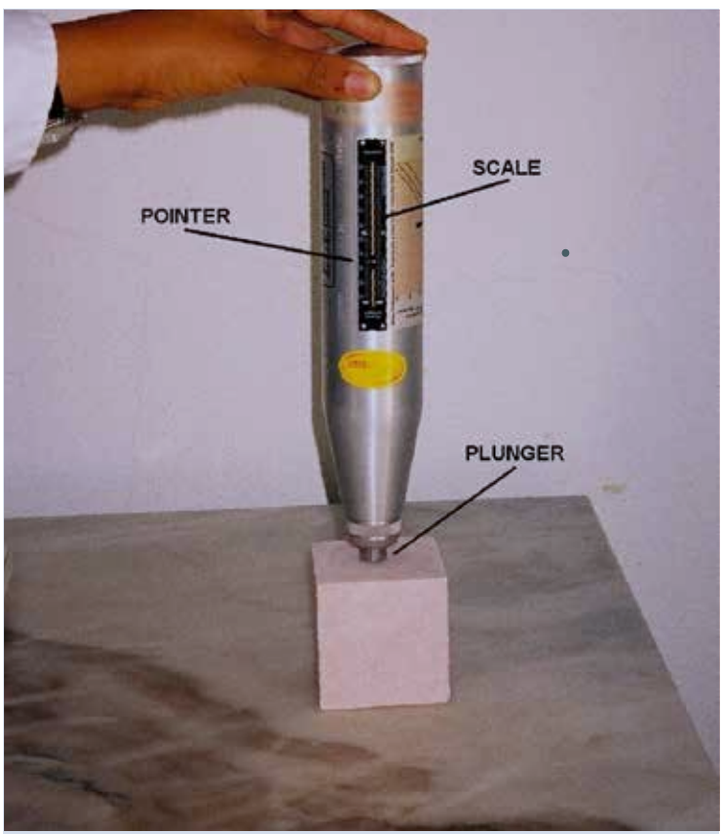
GEOTECHNICAL TESTING EQUIPMENT
THE BEST IN TEST

Concrete Test Hammer

Widely used in civil engineering and construction industry for testing the strength of concrete.

Principle

When testing the strength of concrete, Concrete Hammer uses a certain elastic force to transit the impact force of an impact hammer to the surface of concrete, its initial kinetic energy redistributes, a part of energy in the form of plastic deformation or residual deformation is absorbed by the concrete, and another part of energy which is proportional to the surface hardness is transmitted to the impact hammer, making the hammer resile to a certain height, then the strength of the concrete is derived from the proportional relation between the height of resilience and the concrete strength.



Demonstration

Perform a few test impacts with the concrete test hammer on a smooth, hard surface before taking any measurements which you are going to evaluate. Use a grindstone to smoothen the test surface.

Warning!

The impact plunger generates a recoil when it deploys. Always hold the concrete test hammer in both hands!

Position the concrete test hammer perpendicular to the test surface.

• Deploy the impact plunger by pushing the concrete test hammer towards the test surface until the pushbutton springsout.

Always hold the concrete test hammer in both hands, perpendicular to the test surface, before u trigger the impact!

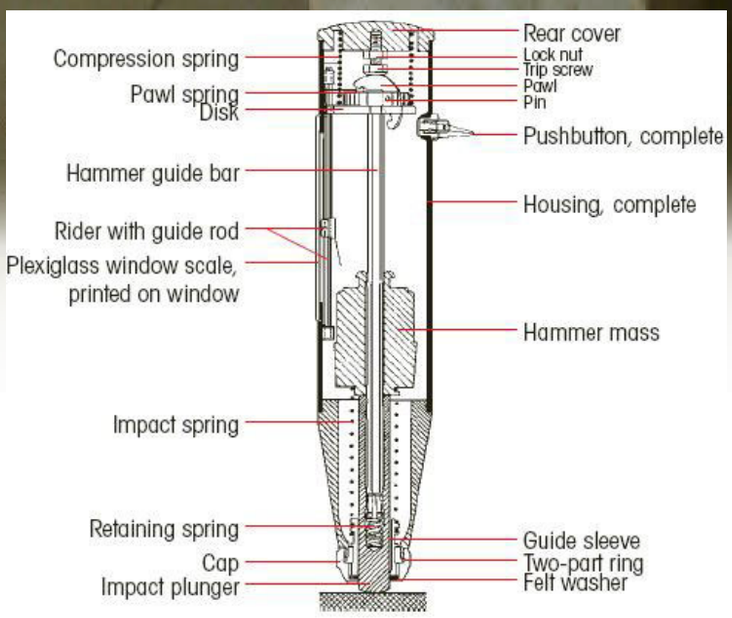
Each test surface should be tested with at least 10 impacts. The individual impact points must be spaced at least 20 mm apart.

• Position the concrete test hammer perpendicular to and against the test surface. Push the concrete test hammer against the test surface at moderate speed until the impact is triggered (a high beep acknowledges registration).

• Repeat this procedure for the whole measurement series.

Performing the test

• If you are using models N and L, press the pushbutton to lock the impact plunger after every impact. Then read off and note down the rebound value R indicated by the pointer on the scale.



Technical Specifications

	Range of Measurement	Impact energy
Normal	5-120 N/mm2	2,207 Nm

Ordering

CN 0213 New Shape Concrete Hammer
CN 0214 Rock Concrete Hammer
CN 0215 Normal Concrete Hammer

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Standards and Guidelines

EN 12 504-2; ENV 206; DIN 1048-2; BS 188-202; ASTM C 805; NFP 18-417; B 15-225

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