

# Concrete Rebound Hammer



**Quality Assessment Technology  
For Concrete**

POWERHOUSE OF ULTRASONIC TECHNOLOGY<sup>®</sup>





Portable and Easy to Use

High Accuracy

Measures compressive strength

Calibration Required

Suitable for quality control and inspections

A **concrete rebound hammer** is a portable device used to determine the hardness or compressive strength of concrete by quickly impacting the surface with a spring-loaded plunger and measuring the rebound distance. The harder the concrete, the greater its resistance to deformation, resulting in a higher rebound value. It is commonly used in non-destructive testing of existing structures and during construction to check if curing has been properly done.

## Technical Specifications

<b>Model No.</b>	<b>UX4690-N</b>
Standard impact energy	2.207 Nm
Pointer length	20.0 ± 0.2mm
Friction of pointer	0.35 ± 0.15N
Spherical radius of bouncing rod	24±1.0mm
Elastic tension spring stiffness	680.0 ± 30.0N/m
Bounce hammer unhook position	Scale line "100" at the score line
Operating length of elastic tension spring	62.5±0.5mm
Hammer take-off position	Scale "0"
Calibration value on steel anvil	80 ± 2



## Features

- Quick and easy determination of the strength of concrete.
- The rebound value is read from a graduated scale and is designated as the rebound number or rebound index.
- The rebound hammer is used for the concrete surface which is at the horizontal, vertical or intermediate angle.
- It is easy to use because the rebound hammer is light in weight, compact and can be easily carried.

## Concrete Rebound Hammer - UX4690-N

### Specifications

Compressive strength	10-100Mpa
Material	Aluminium Housing, Steel hammer
Dimension	Ø62x295 mm
Weight	1.1 Kg



### Benefits of UX4690-N

**Rapid Assessment:** The rebound hammer provides a quick and convenient way to evaluate concrete strength on-site, unlike traditional methods that require core samples and laboratory testing.

**Non-Destructive:** Unlike core sampling, the rebound hammer doesn't damage the concrete structure, making it ideal for quality control and inspections.

**Portability:** The compact and lightweight design allows for easy transportation and use on various construction sites.

### Uses of UX4690-N

- Establish the concrete's compressive strength
- Evaluate how consistent the concrete is
- Determine the quality of the concrete
- Assess the in-place uniformity of the concrete
- Find the exact location of poor quality and deteriorated concrete
- Estimate in-place strength if a correlation is developed



### Accessories

Concrete Rebound Hammer	-1
Millstone	-1
Buffer spring	-1
Screwdriver	-1
Manual	-1

The rebound hammer is a valuable tool for construction professionals, offering a quick, portable, and non-destructive method to assess concrete strength. Understanding its principles and proper use allows for informed decision-making regarding concrete quality and performance.

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