

IH-01 IEPE Instrumented Impact Hammer

Measuring range 200N

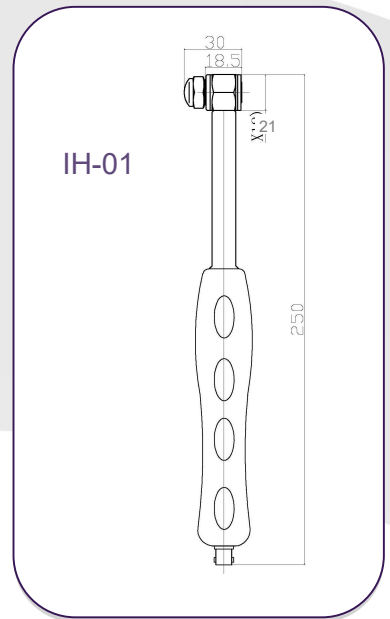


The IH-01 impact hammer belongs to a range of general purpose hammers used for structural health testing, resonance determination and modal analysis, the IH-01 itself being suitable for more lightweight structures and lightly damped panels.

Included within the hammer is a piezoelectric IEPE force sensor in which directly outputs a voltage signal.

Each hammer is supplied as a kit including a cable and a variety of tips able to suit a variety of testing requirements, the IH-01 terminating with a BNC connector.

Impact pulse width and frequency response is different with different hammer heads and tips. It should be based on actual tests.



| IH-01 | Metric | Imperial |
|----------------------------|---------------------------------|-------------|
| Sensitivity ($\pm 10\%$) | 25mV/N | 111.5mV/lbf |
| Measuring Range | 200N | 44.96lbf |
| Non-linearity | $\leq 1\%$ | |
| Resolution | 6mN(rms) | |
| Resonant Frequency | $\geq 60\text{kHz}$ | |
| Low Frequency | 1Hz | |
| Hammer head Weight | 28gm | 1oz |
| Hammer weight (total) | 110g | 3.88oz |
| Hammer Head \varnothing | 21mm | 0.71in |
| Hammer Length | 250mm | 9.84in |
| Output Connector | BNC | |
| Tips Supplied | Rubber, nylon, aluminium, steel | |
| Excitation voltage | +18 to +28V | |
| Constant Current | 2-10mA | |
| Bias Voltage | 10-14VDC | |
| Output Impedance | $\leq 100\Omega$ | |

Options

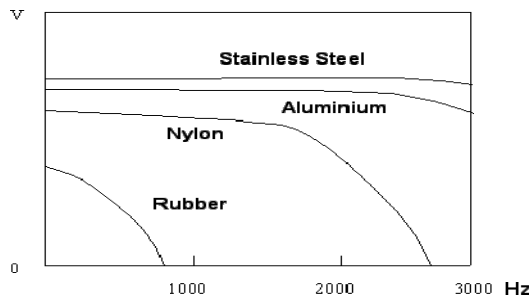
- IH-01-50 50N
- IH-01 200N
- IH-02 2000N
- IH-05 5000N
- IH-10 10000N
- IH-20 20000N
- IH-50 50000N

Other options include a wide range of accelerometers and cabling to suit any type of structural test.

Typical Frequency Response

Pulse width and frequency response vary with hammerhead materials.

This drawing is for reference.



Tips included



Please note: For information and reference only. Data should not be used as pass/fail criteria for calibration purposes.

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DJB Iss.2.2020

A UK company with UK-based manufacturing, assembly and calibration in-house.



ISO 9001 — 00025363