

IH-05 IEPE Instrumented Impact Hammer

Measuring range 5000N

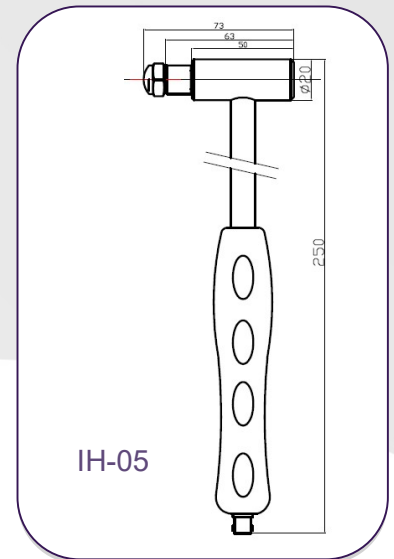


The IH-05 impact hammer belongs to a range of general purpose hammers used for structural health testing, resonance determination and modal analysis, the IH-05 itself being suitable for medium structures. Included within the hammer is a piezoelectric IEPE force sensor in which directly outputs a voltage 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-05 has a BNC terminating connector and an additional mass that can be attached to the rear of the hammer head.

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



IH-05	Metric	Imperial
Sensitivity ($\pm 10\%$)	1mV/N	4.46mV/lbf
Measuring Range	5000N	1124.1lbf
Non-linearity	$\leq 1\%$	
Resolution	100mN(rms)	
Resonant Frequency	$\geq 55\text{kHz}$	
Low Frequency	1Hz	
Hammer head Weight	120gm	4.2oz
Hammer weight (total)	210g	7.41oz
Hammer Head \varnothing	20mm	0.79in
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	$\leq 100\Omega$	

IH-05

Options

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

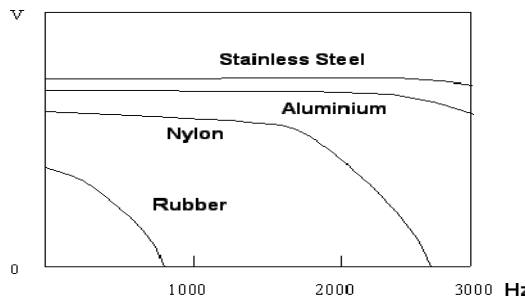
Other options include a wide range of accelerometers and cabling to suit any type of structural test.

Additional mass available for the IH-05 (90grams)

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



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