

IH-01-50 IEPE Instrumented Impact Hammer

Measuring range 50N

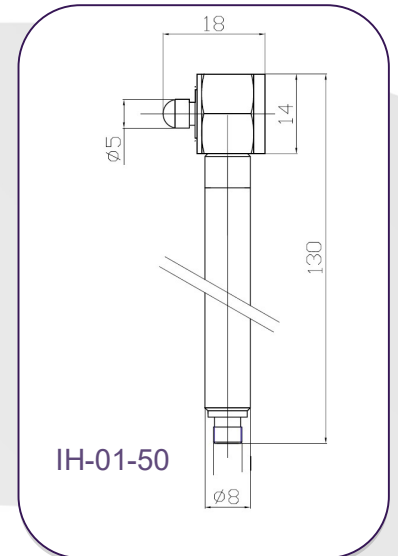


The IH-01-50 impact hammer belongs to a range of general purpose hammers used for structural health testing, resonance determination and modal analysis, the IH-01-50 itself being suitable for testing of lightweight structures such as PCB's.

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-01-50 terminating with a M5 microdot connector.

Impact pulse width and frequency response is different with different hammer heads and tips.



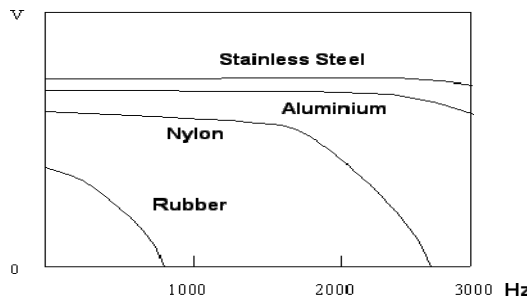
IH-01-50	Metric	Imperial
Sensitivity ($\pm 10\%$)	100mV/N	446mV/lbf
Measuring Range	50N	11.24lbf
Non-linearity	$\leq 1\%$	
Resolution	2mN(rms)	
Resonant Frequency	$\geq 70\text{kHz}$	
Low Frequency	1Hz	
Hammer head Weight	15gm	0.53oz
Hammer weight (total)	80g	2.82oz
Hammer Head \varnothing	14mm	0.55in
Hammer Length	130mm	5.12in
Output Connector	M5	
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
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- Rubber Nylon Aluminium Steel

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