

Excitation Sources **Impact Hammer/ Modal Shaker**

BSWA IH02 Impact Hammer integrates a high-strength force sensor for dynamic characteristics testing of small and medium damping structure. Typical applications are structure damping testing, resonance determination, and modal analysis.

The ICCP powered piezoelectric force sensor which is built in the IH02 outputs voltage signal directly, and is supplied with various head of hammer. The pulse width and range of frequency response of impact may vary by the material of head. Please select appropriate hammer base on the need of field test.



Features

- Integrated ICCP force sensor
- Supplied with variety impact head

Application

- Damping testing
- Resonance determination
- Modal analysis

SPECIFICATIONS

Impact Hammer	
Model	IH02
Sensitivity	2.5 mV/N
Range Full Scale	200 0N
Resonant Frequency	> 22 kHz
Non-Linearity	≤1%
Operating Temperature	-40°C ~ 120°C
Power Supply	18VDC ~ 28VDC
Constant Current Excitation	2 mA ~ 10 mA
Output Impedance	≤100 Ω
Connector	BNC
Sensing Element	Quartz
Connector	60g
Head Diameter	16 mm
Head mAss	180 g
Overall Length	250 mm
Interchangeable Impact Tips	Stainless steel, aluminum, rubber, and nylon

BSWA L500 200N Modal Shaker uses rare earth as its permanent magnetic material. With built-in short-circuit ring, it has small volume, light weight, wide frequency range, and high reliability.

L500 shaker can be used in the environmental vibration, fatigue test, measurement of dynamic response for medium and small structure, testing of resonant frequency and mechanical impedance, and model testing. It can also be used as a small shaking table to make the measurement and calibration for accelerometers.

L500 should be used with LA200 power amplifier (not included).

SPECIFICATIONS

Modal Shaker	
Mode	L500
Maximum Rated Force (N)	≥150
Maximum Amplitude (mm)	± 7.5
Maximum Amplitude (g pk)	40
Maximum Input Current (Arms)	≤12
Frequency Range (Hz)	10 ~ 5k
Moving Coil Dc Resistance (Ω)	0.8
Quality of the Moving Parts (kg)	0.45
Dimensions (mm)	Φ180 x 175 (H)
Mounting Hole Size (mm)	200 x 160 /4-Φ10
Weight (kg)	13.5
Mounting Thread	table facet Φ40/ M5
Power Required (W)	200/500

