

Modal Impact Hammer

Description

The impact hammer is lightweight and compact, offering fast dynamic response, high natural frequency, high resolution, and low spectral electrical noise, making it especially well suited for modal testing. It comes equipped with carbide, nylon, and rubber hammer tips, as well as an extender mass, to meet the requirements of a variety of test scenarios, delivering excitation across multiple frequency ranges with reliable, consistent results.

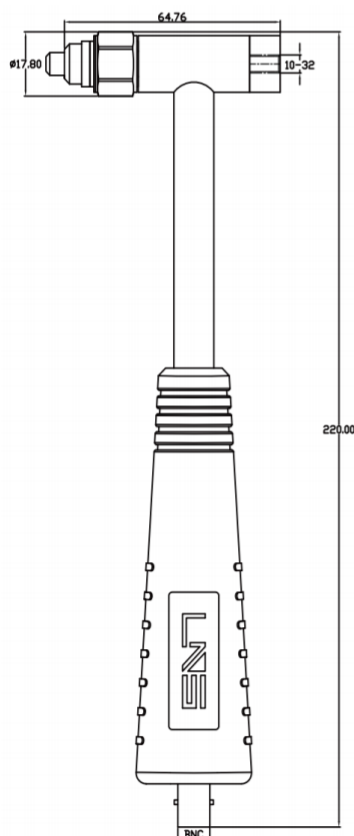
FEATURES

- Fast dynamic response
- Built-in IEPE circuit
- High resolution
- Broad excitation range

TYPICAL APPLICATIONS

- Structure health testing
- Resonance identification
- Modal analysis

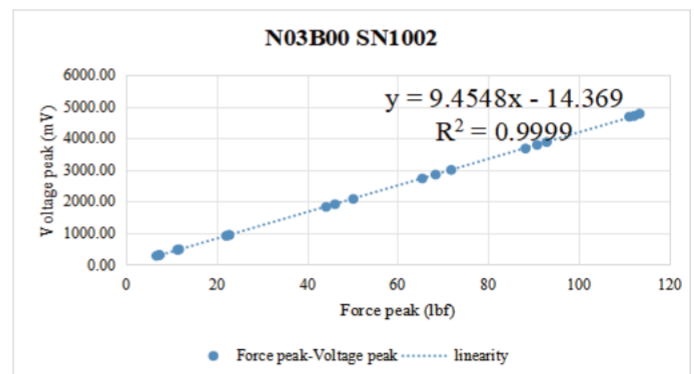
Fig.1 Dimension drawing of NXXB00



GUIDE

Small and medium-sized equipment and frame structures - machine frames, machined components, and more.

Fig.2 Typical impact linearity



Specification-NXXB00

Characteristics	Unit	N01B00	N02B00	N03B00
Force				
Sensitivity	mV/lbf (mV/N)	4.5 (1.01)	11.1 (2.5)	44.5 (10.0)
Measurement Range	lbf pk (kN pk)	≤1111 (≤4.9)	≤450 (≤2.0)	≤112 (≤0.5)
Overload Capacity	%	120	120	120
Resolution	lbf (N)	0.35 (2.0)	0.14 (0.62)	0.04 (0.18)
Non-Linearity	%	≤1		
Repeatability	%	≤1		
Resonance Freq	kHz	≥40		
Electrical				
Excitation Voltage	VDC	20-30		
Constant Current	mA	2-20		
Full Range Voltage	V	±5		
Output Bias Voltage	V	8-12		
Output Impedance	Ω	< 100		
Settling Time	s	> 360	> 180	> 30
Environmental				
Temperature Range	°C (°F)	-55~120 (-67~248)		
Physical				
Sensing Element	-	Quartz		
Sealing	-	Epoxy		
Housing Material	-	Stainless steel		
Mounting Thread	-	10-32		
Electrical Connector	-	BNC		
Weight	g	158		
Extender Mass	g	73.5		

Addition

Notice :

Calibrated in accordance with JJG 632-1989 (Verification Regulation for Dynamic Force Sensors) and JJF 1370-2012 (Calibration Specification for Dynamic Characteristics of Sinusoidal Force Sensors).

NXXB00

Supplied Accessories:

- Calibration Report
- Portable Case
- Hammer Tips
- Extender Mass

COMPLIANCE WITH STANDARDS



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