

Impact Hammer

Description

Impact hammer has a characteristic of light weight, small size, fast dynamic response, high natural frequency, high resolution and lower spectral electrical noise which makes it to be especially suitable for modal testing. The impact hammer is equipped with carbide, nylon and rubber hammer heads to meet the requirements of a variety of test scenarios, providing multi-frequency pulse forces and reliable and consistent test results.

FEATURES

- Fast dynamic response
- Built-in ICP circuit
- High resolution
- Multi-frequency pulse forces

Application example

- Structure Health Testing
- Resonance Determination
- Modal Analysis

Application guide

Small and medium-sized equipment and frame structures such as: frame, machined parts, etc

Fig.1 Dimension drawing of NXXB00

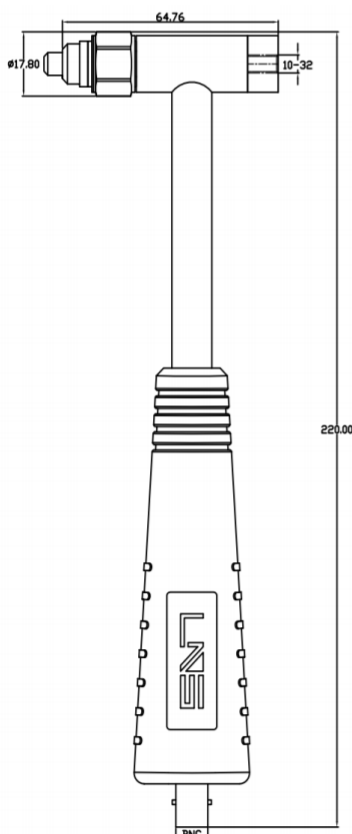
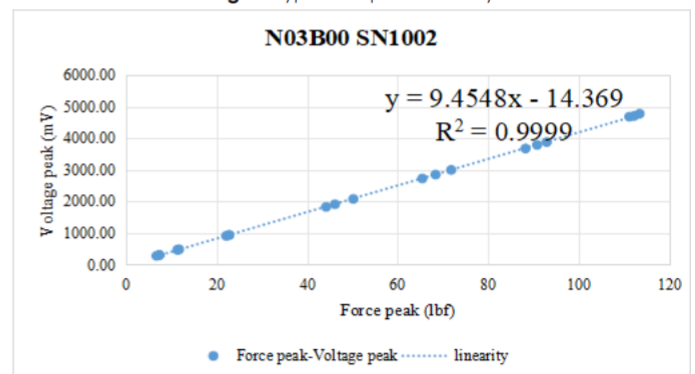


Fig.2 Typical impact linearity



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		

Addition

Notice:

Refer to JJG632-1989
verification regulation for dynamic
force sensors and JJF 1370-2012
Calibration specification for
dynamic characteristics of
sinusoidal force sensors

NXXB00

Configuration

- Instruction manual
- Calibration report

Satisfied criteria:



Shandong LNS Intelligent Technology Co., LTD

N0.3 Incubator Building
Qilu High-Tech District, Qihe, Dezhou
Shandong Province, China 251100
+86-534-2150417

International:

9620 NE Tanasbourne Dr Ste 300
Hillsboro, OR, USA 97124
+1-503-208-5512
info@lnsdynamics.com