

# Ballistic Load Sensing Headform (BLSH)

Dynamic behind helmet blunt trauma assessment of the head



- For ballistic helmet testing and measurement of load transfer from interior shell deformations for Behind Helmet Blunt Trauma (BHBT) assessment.
- Suitable for kinetic less-lethal ammunition safety evaluation.
- Can be used for head injury research of behind armour effects.
- Standard ISO head shape with instrumented front/rear/left/right/crown sites, 3 headform sizes available
- Head force transmission measured with seven force sensors and shaped skin pad at each sensing site. Force Verification System available to confirm operation.
- Includes compliant neck, adjustable support base, junction boxes, ruggedized portable case with mounted electronics and cables.
- Computer, amplifiers, data acquisition system, BLSH software, and force verification package available.
- Ballistic limit headform (sacrificial) available for perforation assessment.
- BLSH software measures and outputs peak total force, individual force, average force, impulse, duration, centre of pressure location.

## Specifications

Sensor:	Uniaxial, piezo-electric 22 kN max. each, <30 kHz	Data Conditioning:	30 kHz, 4-pole Butterworth
Sensor Layout:	7 sensors, 2940 mm <sup>2</sup>	Software:	Biokinetics' BLSH Software Output: peak, avg. and individual forces, impulse, duration, centre of pressure.
Data Collection:	16 ch at 100 kHz synchronous ±10 V input / 16 bit	Part Number:	Headform: BLSH-003 Force Verification System: BLSHFV-001 Ballistic Limit Headform: BLH-001

## Physical and Electrical

Headforms:	ISO type, circumferences: S=535 mm, M=575 mm, L=605 mm, 5 kg each approx.	Electronics Cabinet	W 686 x D 956 x H 473 mm, 40 kg
Support Base:	W 385 x D 405 x H 505 mm without headform, 29 kg	Electrical:	120 VAC @ 60 Hz / 240 VAC @ 50 Hz 800 W min.

## Warranty

All components:	1 year limited
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(All specifications are subject to change)