

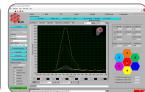
Ballistic Load Sensing Headform (BLSH)

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 ² | | 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 | | 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 | | 120 VAC @ 60 Hz / 240 VAC @ 50 Hz 800 W min. |

Warranty

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

