

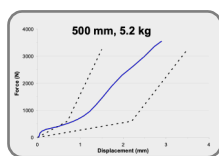


Mandible Load Sensing Headform (MLSH)

Jaw force and head kinematic measurement for facial and head blunt impact injury assessment



- Suitable for facial protection or mouth guard testing.
- Assesses load transmission into the head from jaw impacts and resulting head kinematics.
- Force sensors (tri-axial) at upper dentition and both mandible joints.
- Upper and lower dentitions included with biofidelic articulating mandible joints.
- Hybrid III 50th percentile male ATD head shape, mass and C.G. Mounts to Hybrid III ATD neck.
- Available head acceleration sensors, amplifiers, support stand, and data acquisition system.
- Biokinetics' MLSH Software provides data collection, data reduction and display of results. Outputs mandible forces, head accelerations, and HIC.
- MLSH software exports data to MS Excel®



Specifications

FORCE SENSOR		ACCELERATION	
Type, bandwidth:	Tri-axial, piezo-electric, < 90 kHz resonance	Type, bandwidth:	Piezo-resistive, < 30 kHz resonance
Range:	2.2 kN each (working)	Range:	2000 G (working)
Layout:	Temporomandibular joints (qty 2) Upper dentition (qty 1)	Layout:	NAP 3-2-2-2 (qty 9 accelerometers), optional angular rate sensors with tri-axial accelerometers
Data Conditioning	ICP 4-channel amplifier 1.65 kHz, 4-pole Butterworth	Data Conditioning	3-channel DC differential voltage amplifier 1.65 kHz, 4-pole Butterworth
Data Collection	20 ch at 100 kHz synchronous ±10 V input / 16 bit		
Software:	Biokinetics' MLSH Software	Part Number:	MLSH-001

Physical and Electrical

Headform:	Hybrid III 50th percentile, 4.54 kg	Electrical:	120 VAC @ 60 Hz / 240 VAC @ 50 Hz 200 W max.
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Warranty

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