

Shock Qualification & Shock Test Machines

CAPABILITY SHEET - NAVAL HAMMER GEOMETRY, DROP-TABLE, PNEUMATIC AND BUMP MACHINES - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Machines that deliver standardised mechanical shock and verify function - naval hammer geometry, guided drop and pneumatic tables, bump machines.
OUR ROLE	Machines, foundations and seismic masses, fixtures and deck adapters, instrumentation integration, calibration-blow procedures, commissioning, AMC.
STATUS	Quoted across pneumatic shock-machine, drop-table shock and bump-machine requirements; no delivered shock machine is claimed - engineered to order.

THE GOVERNING IDEA

SEVERITY IS GEOMETRY	A known mass through a known height - kilograms and metres read from an indexed quadrant, not an amplifier. Severity an auditor can verify from the record.
ONE BLOW, NO SECOND TAKE	A short series of defined blows per orientation - fixture, instrumentation, capture and safety must work the first time, every time.
THE PASS IS FUNCTIONAL	Accelerometers record the event, but the verdict is the equipment working afterwards - and through the blows where the duty demands.

THE MACHINE

HAMMER GEOMETRY	Lightweight and medium-weight class to the MIL-S-901 geometry - hammer beneath an anvil table, drop height indexed by pin and quadrant.
DROP TABLE + SHAPERS	Guided table onto elastomer, lead or honeycomb shapers - half-sine and sawtooth of stated g and ms; the 10-300 g, 3-30 ms class, to 1000 kg+ payloads.
BUMP MACHINES	Thousands of modest repeated bumps from a cam-lifted table - endurance by count for transport and rough handling.

DISTINCT & HONEST

NOT A SHAKER	The sibling vibration system plays programmable spectra to MIL-STD-810; the hammer standards specify the machine itself - a collision, not a waveform.
THE FIXTURE TELLS TRUTH	Stiff mounting frames and deck adapters proven by measurement and managed as test assets - the article must feel the machine, not the fixture.
ENGAGEMENT	Send the standard, payload masses and severities to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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