

Materials Impact Testing Machines

CAPABILITY SHEET - PENDULUM + DROP TOWER + CONDITIONED IMPACT - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Materials impact testing machines - pendulum testers, instrumented drop-weight towers and conditioned low-temperature impact systems.
OUR ROLE	Neometrix engineers the frames, mechanisms, fixtures, conditioning, instrumentation and controls, then installs, verifies to the codes and supports.
STATUS	Engineered to order; quoted across pendulum and conditioned drop-weight impact-testing requirements. No delivered machine is claimed.

THE MACHINES

PENDULUM	150-750 J class hammers for Charpy and Izod to ASTM E23 / ISO 148 - motorised raise, safe release, braked swing, energy read by encoder.
DROP TOWER	Guided mass, variable energy, instrumented tup recording force-time, velocity gate - and an anti-rebound catch: one blow, never two.
CONDITIONED	Baths to -196 C with the codes' transfer seconds - or chamber-integrated machines that strike at temperature, from our delivered climatic line.

THE RULE

STRONG IS NOT TOUGH	A blow is not a pull: speed, notch and cold find the brittle path a tensile test never takes - so the codes demand impact numbers per heat.
THE TRANSITION	Steel that stretches warm can shatter cold. Energy plotted against temperature finds the flip in the laboratory - never in service.
ON TRIAL	The machine proves itself: direct verification plus certified reference specimens, at installation and on the calibration calendar for life.

DISTINCT & HONEST

TWO LINES MET	The test-machine house and the delivered climatic-chamber line meet in one instrument that strikes at temperature - the conditioned-impact pattern.
OUR FRANCHISE	Frames, mechanisms, precision fixtures, conditioning integration, instrumentation and verification are ours; reference specimens and sensors bought-in.
ENGAGEMENT	Send the materials, the standards and the temperatures to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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