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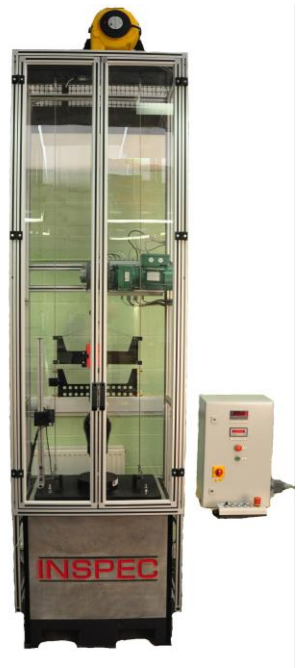
Shock absorption & penetration test equipment for industrial helmets

Description:



Comprises a steel base plate, approximately 500 x 750mm, upon which is mounted an aluminium framework to support the guide wires for the drop assembly. This framework can be disassembled for shipping.

The striker assembly is hoisted by an electric winch, controlled from a separate control panel. It is guided by two vertical pre-tensioned cables and released via an electromagnetic, fail-safe, release system. A drop height of up to 1.5m is provided.

The striker assembly has removable, interchangeable impactors – steel hemispherical, flat and conical, etc, as required by the standard.

Three test headforms, and a rubber (MEP) test block to use as a system check, are included. Each is readily interchangeable via a quick release clamp.

Clear polycarbonate guarding is fitted to an appropriate height around all four sides. The front has double opening doors that are interlocked for user safety.

An automated speed measurement system with digital readout and an RS232 computer interface is included. Other instrumentation comprises a force transducer and charge amplifier incorporating a digital display of peak force, together with connecting cables.

For an additional cost, data logging hardware and software can be provided which connects to a computer (not supplied). This allows the force v time history to be inspected and recorded.

Services required:

Floor mounted on concrete base block
110/230 Volts AC, 50/60Hz, mains electricity

Relevant standards:

EN 397:2012, clauses 6.6 and 6.7
ANSI Z89.1:2014, clauses 10.2 and 10.3 and figures 7 & 8

Approximate packed size & weight (two crates):

Case 1 - 105 x 75 x 125cm : 700kg
Case 2 - 290 x 90 x 115 cm : 300kg

Please contact us for a quotation

Effective July 2014