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Drop impact test equipment for complete eye protectors

Description

This equipment provides for dropping impactors such as ball bearings, penetration needles or high mass impactors on to the specimen eye protector mounted on a test headform below.

Impactors are held by a magnetic hold/release system located at the specified height, vertically above the headform, and then allowed to drop in guided free fall.

The headform can be positioned to enable targeting of frontal and lateral impact sites. Various headforms are available, depending upon the applicable eye protector standard.

The base of the equipment retains the impactor, following the drop.

Several impactor configurations are available, as described in the 'pack options' on the following page.

When ordering, please specify your required headform(s) and relevant pack(s).

Services required

Floor mounted
110/230 volts AC, 50/60Hz, mains electricity

The rig is designed to operate in the conditions specified by the relevant standard.

Options

Various headform options are available and can be quoted for separately.

We offer different accessory packs that include specific impactors and associated guidance systems. Commonly requested packs are given below.

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Drop impact test equipment (continued)

Option pack A (e.g. ANSI Z87.1)

Comprising:

a) Conical steel impactor of 500g, 25.4mm diameter, 30° cone and 3mm radius tip
b) 25.4mm steel ball
c) Weighted needle impactor
d) Guide tubes of appropriate length/diameter (for 1.27m drop).

Option pack B (e.g. AS/NZS 1337.1)

Comprising:

a) 22mm steel ball
b) 44g weighted needle impactor
c) Guide tubes of appropriate length/diameter (for 1.27m and 1.8m drop).

Option pack C (e.g. ISO 12311)

Comprising:

a) 16mm steel ball
b) Guide tube of appropriate length/diameter (for 1.3m drop).

Option pack D (e.g. ISO 16321-1)

Comprising:

a) Conical steel impactor of 500g, 25.4mm diameter, 30° cone and 3mm radius tip
b) 25.4mm steel ball
c) Guide tubes of appropriate length/diameter (for 1.27m drop).

Option pack E (e.g. EN 168)

Comprising:

a) 22mm steel ball
b) Guide tube of appropriate length/diameter (for 1.3m drop).

Our equipment is highly adaptable so please ask and we should be able to accommodate your requirement.

Consumables

Pressure sensitive material (we recommend a combination of white and carbon paper) is required for recording contact between the test specimen and the headform.

Approximate packed size & weight

200 x 50 x 50 cm : 70 kg

Relevant standards

ISO, EN, ANSI and AS/NZS eye protector standards.