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Retention system strength, Dynamic load

Description

A three-quarter headform is supported on guarded aluminium framework. The helmet is mounted on the headform and the chinstrap is secured around an artificial jaw.

The jaw is connected to a guide rod carrying the drop mass. The guide rod and jaw also act as a 1.5kg preload mass. Additional masses are available to increase the preload mass.

A release mechanism allows a drop mass to fall, imparting a sudden force to the retention system of the helmet. The drop height is adjustable from approximately 0.1-1m.

A linear transducer is fitted to the guide bar which measures the displacement of the jaw, the output analysed by a data logging system and recorded using software.

Headforms, pre-load masses, drop masses and apparatus to measure impact speed are optional extras (see below).

If you are unsure the options you need, let us know and we will try to help.

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 standards listed below.

Storage conditions should be restricted to 5 to 35°C and <85%RH.

The software requires a Windows 10 operating system & Microsoft Office 2016 or later.

Optional items

Headforms

¾ headforms of varying sizes and for varying standards are available. These are not included with the equipment so should be specified when ordering.

Pre-load mass

Two add-on options are available:

a) 3.5kg add-on to give a total pre-load mass of 5kg
b) 2kg (further) add-on to give a total pre-load mass of 7kg. This includes a rubber stop pad.

Drop mass

Three drop mass options are available:

a) 4kg
b) 7kg
c) 10kg

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Retention system strength, Dynamic load (continued)

Optional items (continued)

Means to measure impact speed*

Equipment to measure impact speed for the drop mass is available.

Approximate dimensions and weight

250 x 110 x 110 cm: 70 kg

Relevant standards

ANSI/ISEA Z89.1-2014, AS/NZS 2512.5.2:1998, EN 13087-5:2012*, ISO FDIS 3873, WRU Regulation 12