INSPEC International Limited
56 Leslie Hough Way
Salford, Greater Manchester
M6 6AJ, United Kingdom

Tel: +44 (0) 16 1737 0699
Email: equipment@inspec-international.com

Retention system effectiveness (Roll-off)

Description

A full headform is supported on a tubular framework and may be adjusted to the appropriate orientation specified in the applicable helmet standard.

The helmet is mounted on the headform and a hook and flexible cable is attached to the rim of the helmet.

The cable is connected to a guide rod carrying the drop mass (10kg). The guide rod permits a maximum drop height of 625mm and acts as a preload mass (3kg).

A release mechanism allows the drop mass to fall, imparting a sudden force to the helmet. A velocity measurement system allows the system efficiency to be calculated.

If you require an alternative drop mass or preload mass, please contact us to discuss your requirements.

There are NO headforms included as standard. Please indicate which sizes of headform you require.

EN/ECE configuration shown.



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Retention System Effectiveness (continued)

Services required

Floor mounted

110/230 volts AC, 50/60Hz, mains electricity (specify on order)

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.

Additional items required

Test headform(s), various sizes available.

Optional items

Accessories are available that permit testing to ASTM standards. Please contact us for further information.

Consumables

None

Approximate dimensions and weight

270 x 160 x 110 cm : 70 kg

Relevant standards

ASTM F1446

ECE Reg 22.06

EN 13087-4

EN 397:2025