

Head Drop Test Stand

TF-100-0000

The Humanetics Head Drop Test Stand is a complete fixture used for evaluating performance characteristics of the head assembly. This fixture conforms to the specifications as written in the United States Code of Federal Regulations, Title 49, Part 572.

Description

The Head Drop Test is accomplished by suspending the head assembly by a light-weight cable suspension system. An adjustment screw on the release mechanism allows for precise vertical positioning of the head assembly. The head is dropped from a specified height onto a 2-inch thick steel plate.

The release mechanism consists of a permanent electromagnet and a small steel drop plate. The control box for the electromagnet can be powered by 110VAC or 230VAC. An infrared emitter and detector is used as a trigger for a data acquisition system or an event indicator.

The adjustable crossbar allows the electromagnet to be positioned at any height between 6 inches to 34 inches from the impact plate.

The three (3) accelerometers required for the test are not included.

Standard Equipment

- Welded Steel Lower Frame
- Impact Plate: Part 572 Compliant
- Head Suspension Frame
- Magnetic Release Mechanism
- Mechanical Inclinometer
- Height Gage for the Hybrid III Family
- Bubble Level



Optional Equipment

- Head Suspension Systems are available for the following dummies:
 - Hybrid III 50th / Hybrid III 95th
 - Hybrid III 5th / Hybrid III 10 YO
 - Hybrid III 6 YO
 - Hybrid III 3 YO
 - CRABI 12-Month-Old
 - Hybrid II 50th
 - SID-HIII
 - WorldSID 5F / 50M
 - SID-IIs
 - EuroSID-2 / EuroSID-2re
 - Q-Dummies
 - Free Motion Headform
 - Pedestrian Headforms
- Hybrid II 50th Head Leveling Tool
- Hybrid II 50th Height Gage
- EuroSID / SID-HIII / WorldSID / SID-IIs Height Gage
- Q-Dummy Height Gage

Dimensions	Fixture	Work Area
Length	2.0 ft	3.0 ft
Width	2' 9"	5.0 ft
Height	6' 4"	-

Technical Product Sheet