

THOR-50M Face Foam

Publication Date: March 2018



The head assembly consists of a specially designed Confor facial foam (p/n 472-1401) sandwiched between the skull assembly and the head skin (fig. 1).

During the course of facial impact certification testing, normal wear on the foam has been observed by Humanetics and THOR users. This wear may be in the form of small tears or abrasions on the surface (fig. 2). Since the foam is an integral part of the face certification, it cannot be replaced after certification. Replacing of the foam will require recertification of the head assembly.

Surface wear and small tears on the foam are normal and do not adversely affect the performance of the head assembly. If the impacted foam is part of a certified head, it must remain until recertification is required.

The THOR-50M ATD requires a face impact certification test. During the normal course of this test, wear and tear on the face foam can be expected.

Background

Humanetics has been working with the National Highway Safety Administration (NHTSA) and European safety initiatives to update the THOR-50M in preparation for its anticipated use in worldwide government regulations and testing protocols.

Since delivering the first dummies to our customers, we've been actively seeking feedback which is then used to advance the THOR-50M's design and usability.

Face Foam Certification Wear and Tear

The THOR-50M requires a number of component and full body impact tests to meet certification requirements. Among these tests is a face impact that requires a special probe contacting the face (connected to the complete body) as it sits on a thorax table.

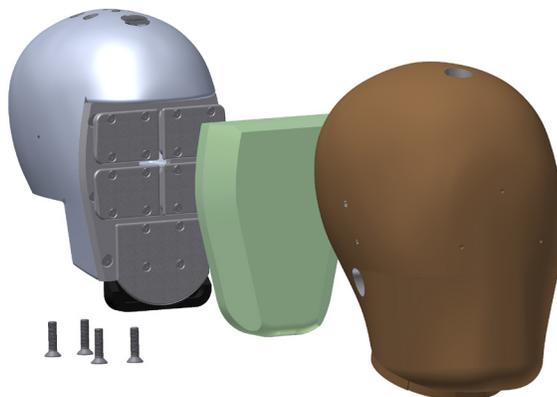


Figure 1 - Components of the THOR-50M head assembly



Figure 2 - A small tear observed in the face foam after impact certification

Spare Face Foams

Humanetics is now shipping new THOR-50M ATDs with 3 spare face foams which can be used for recertification.