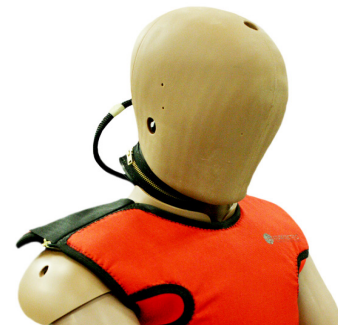


THOR-M Lifting Strap

472-3115-KIT

Publication Date: August, 2015



Humanetics has improved upon the durability of the rear Lifting Strap supplied with THOR-M ATDs after customer feedback was received concerning the initial design.

New Lifting Strap and Bracket

New THOR-M ATDs will be supplied with a new blue and white nylon lifting strap with a greater load capacity.

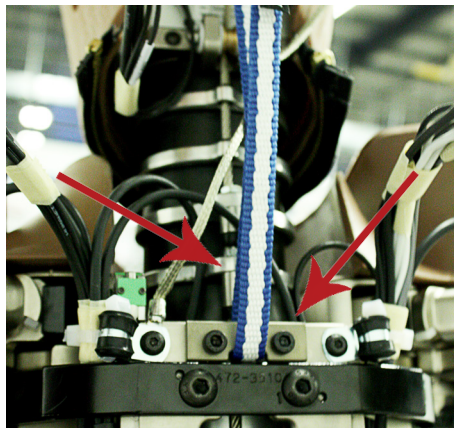


Figure 1 - New Version Lifting Strap and Bracket

Along with the new lifting strap, a new mounting bracket was created in order to prevent sharp corners from cutting at the strap. The new bracket uses the M5 holes above the first rib (figure 1). This design won't require customers to modify their existing THOR ATDs.



Figure 2 - Old Version Black Nylon Lifting Strap

The previous version lifting strap may fray and weaken, thereby increasing the potential for a failure. It is black in color and is not recommended for use. Customers should discontinue using this strap immediately (figure 2).

Validation

An FEA (Finite Element Analysis) was successfully performed to ensure the strength of the new strap and bracket. The load analyzed was two times the weight of the THOR.

In addition, a new lifting strap and bracket were assembled and physically load tested by pulling the strap until failure (Figure 3).

This testing further supported the FEA, showing that the load strap and bracket will be strong enough for the THOR lifting application.



Figure 3

Lifting Strap Kit Components

The following kit (472-3115-KIT) components have been released as a complete replacement for the previous lifting strap.

Part	Description
472-3116	Dummy Lifting Strap, THOR
472-3115	Bracket, Lifting Strap
5000291-FT	Screw, SHCS M5 x 0.8 x 10