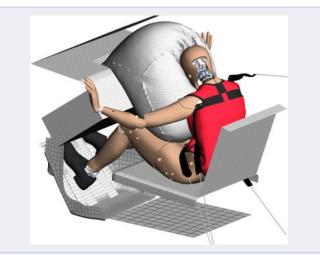
November 2022

HUMANETICS CAE UPDATES

THOR-5F

- THOR-5F v1.2 represents latest SBL-B hardware
- Material models are updated to represent the latest hardware including abdomen, pelvis, face insert, arms and legs
- The model is validated with component and full dummy certification tests
- It is tested for submarining in sled environment



aPLI Borderline

- <u>aPLI Borderline</u> model v1.2.6 has an advanced and easy-to-use user interface
- It allows the user to utilize a model based on physical hardware performance
- The borderline model produces a response with <4% error to the 'user input' in the two respective inverse certification tests
- 16 targets including femur moments, ligament elongation and tibia moments will be matched by the algorithm



THOR-50M Borderline

- <u>THOR-50M Borderline</u> tool allows the user to specify the thorax stiffness to match specific physical dummy test data and study the effect of thorax variation
- The model is based on THOR-50M v1.8 USNCAP and EuroNCAP
- Chest deflections from certification tests can be given as input by the user which the tool uses to generate a customized model
- With the help of borderline model, variability of hardware can be accounted for in the product development



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