

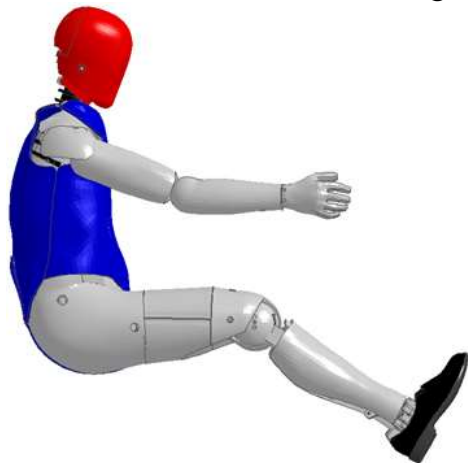
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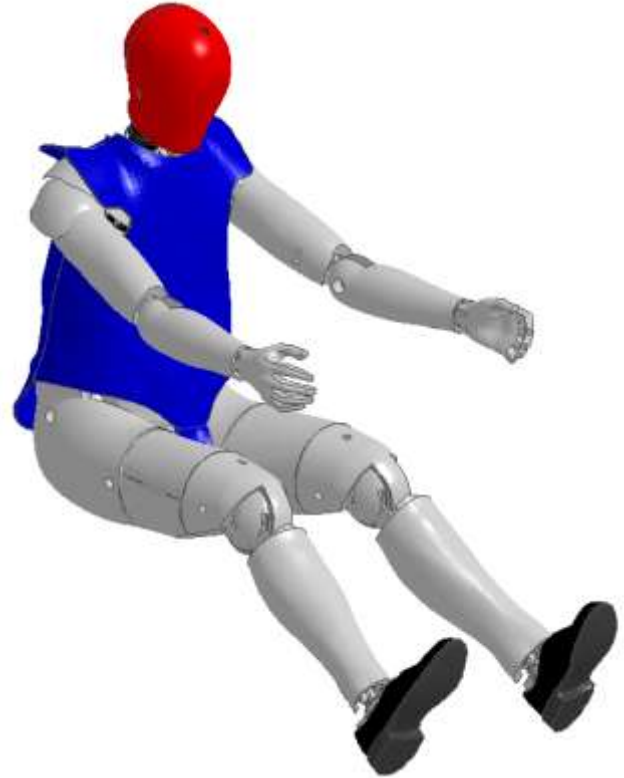
Easy OEM and Supplier THOR-50M
LS-DYNA Model Licensing



JASTI THOR-50M FE Model
463,039 Elements; 658 Parts

JASTI-THOR-50M Finite Element Model

Supporting Manufacturers in the
Ground Vehicle, Aerospace and
Defense Industries with
Virtual Testing and Validation of
Advanced Safety Systems



JASTI THOR-50M

To improve the time from product concept to delivery, the JASTI THOR-50M finite element model has been developed and validated by the leading LS-DYNA, biomechanics, and occupant protection experts from Friedman Research Corporation for use with LS-DYNA, the world standard for virtual impact crash testing.

Accuracy

- The JASTI-THOR 50th percentile male dummy model meets all calibration requirements
- Parts modelled in greater detail than similar existing FE models
- Validated against component and full-scale tests
- State of the art modeling methods ensure accuracy, stability, and computational efficiency
- Inertial properties match those of the physical dummy
- Full jacket structure is modeled in detail and fitted to ensure proper restraint interaction
- Sensor locations and coordinate systems match the physical JASTI-THOR-50M
- Reflects the most recent updates to the THOR performance requirement corridors
- Meets EU and US performance requirements

Easy to Use

- Positioning tree for easy dummy manipulation and locating within vehicle
- Sensor output is clearly defined and easily accessible
- Easy to follow part numbering structure
- Detailed and Fast-Running models available
 - Detailed model for use in scenarios requiring high-fidelity modeling
 - Fast-Running model for overall model checkout and quick evaluations

Quality

- Mesh and element quality ensure stable and efficient computation

Compatibility

- Compatible with explicit LS-DYNA as both detailed and fast running models
- Compatible with pre-post processors like LS-PREPOST and Hypermesh among others
- Made for Linux and Windows operating systems
- Validated on both Linux MPP INTEL clusters and SMP configurations

Low Cost

- FRC guarantees the lowest licensing costs.
- Purchase or leasing structures available.
- Includes technical support for the first year.
- LS-DYNA restraint and structure simulations engineering support hour blocks available to easily control costs

FRC will provide JASTI Customers with worldwide technical support 24/7 for virtual testing of the JASTI-THOR 50th percentile dummy and other finite element models for JASTI products.

FRC will also provide JASTI Customers with customized LS-DYNA, biomechanics, restraint, and crashworthiness finite element solution support.

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