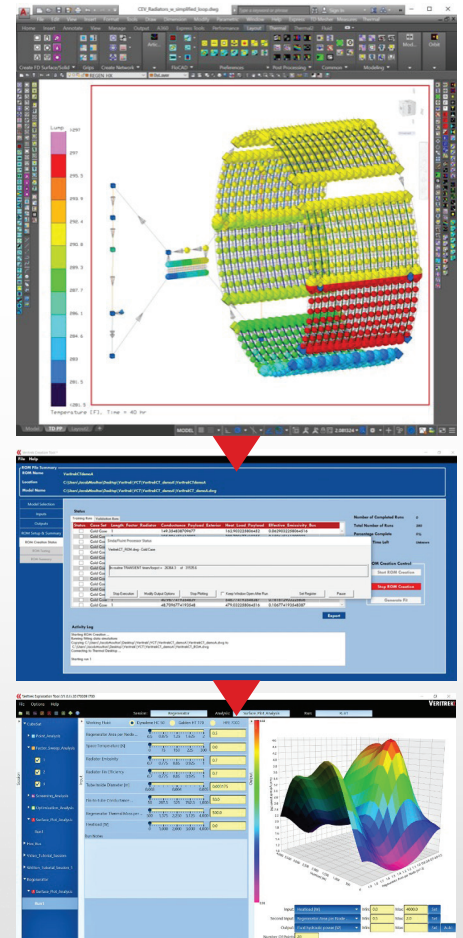


THERMAL ANALYSIS SOFTWARE – VERITREK

Veritrek's statistical approach to thermal analysis enables users to quickly evaluate thermal design sensitivities, rapidly identify design risks, and find engineering solutions. Leveraging the power of reduced-order models, the Veritrek software provides access to thousands of simulation results in seconds. This enables a maximized understanding of a thermal design and enables previously infeasible analyses types such as sensitivity studies, design optimization studies, trade studies, model correlation efforts, and much more.

By sacrificing a greater upfront time investment of generating a reduced-order model from a high-fidelity model, Veritrek prioritizes providing a complete understanding of a thermal model's design space and minimizing mission risk. The innovative software suite enables users to explore, verify and improve thermal analysis. Simply select a thermal model, convert it to a reduced-order model using Veritrek's Creation Tool, and obtain thousands of results in seconds in Veritrek's Exploration Tool.

Currently built for Thermal Desktop, Veritrek's reduced-order models are created from training data of a high-fidelity thermal model. The result is an accurate statistical predictor of a thermal model's behavior in near real-time. Veritrek's easy-to-use interface provides a straightforward, powerful enhancement to standard thermal modeling and analysis approaches.



Start with a Thermal Desktop model, create a reduced-order model using Veritrek's Creation Tool, use the reduced-order model in Veritrek's Exploration Tool for rapid thermal analysis. To learn more, view the Veritrek software videos [here](#).

VERITREK



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APPLICATIONS

- + Spacecraft design optimization
- + Thermal design trade studies
- + Thermal model correlation
- + Thermal sensitivity studies
- + Mission operations planning
- + Thermal design envelope evaluation
- + Thermal uncertainty quantification
- + Thermal design verification
- + Thermal environmental screening

PARAMETERS

WINDOWS 10 OS

Operation System

AUTOCAD 2016, 2017, OR 2018

THERMAL DESKTOP 6.0.14+ABILITY TO INSTALL ANACONDA, PYTHON, AND JAVA. INSTRUCTIONS AND FILES ARE INCLUDED WITH THE VERITREK SOFTWARE SOLUTION.

Software Required

MISSION HERITAGE

- + NASA Jet Propulsion Laboratory – Mars 2020 mission
- + NASA Marshall Spaceflight Center – Artemis Lunar Lander program
- + Sierra Nevada Corporation – Dream Chaser Cargo module
- + ATA Engineering - SmallSat Bus

For more information about our space capabilities,

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VERITREK



HERITAGE

Redwire is a new leader in mission critical space solutions and high reliability components for the next generation space economy. With decades of flight heritage combined with the agile and innovative culture of a commercial space platform, Redwire is uniquely positioned to assist its customers in solving the complex challenges of future space missions. For more information, please visit www.redwirespace.com.

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