

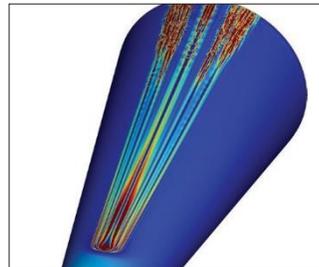
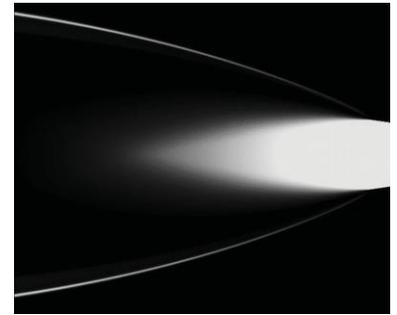
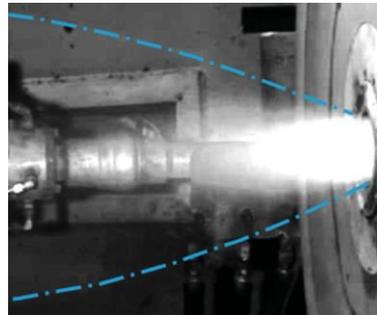
Kratos SRE employs state-of-the-art computational analysis techniques to support customer needs and enhance testing capabilities. One of the numerical tools that has proven to be indispensable for Kratos SRE is Computational Fluid Dynamics (CFD). Using only the most capable and well-validated codes, our CFD capability provides accurate aerodynamic loads and aero-thermal predictions in addition to a deeper understanding of flow physics for a wide variety of commercial and defense aerospace applications. Computational Fluid Dynamics is an enabling analysis technique that provides unique opportunities to facilitate the design process, improve test techniques, and enhance understanding of test outcomes.

■ **Capabilities**

- Dedicated, on-site, High Performance Computing (HPC)
- High Quality Grid Generation for Simple to Complex Geometries
- Two-Dimensional and Three-Dimensional Simulations
- RANS, DES, LES, DNS simulations
- Multiple Species, Finite-Rate
- Thermochemical Modeling
- Boundary Layer Transition Analysis
- Aero-thermal Database Generation

■ **Applications**

- Commercial and Defense
- Re-entry vehicles
- Spacecraft
- Arc-Jet Wind Tunnels
- Wind Tunnels
- Test Specimen Models
- Subsonic, Supersonic, and Hypersonic Flow Regimes
- Fluid Dynamics Research





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