econ ENGINEERING

ENGINEERING SIMULATION SOLUTIONS
FOR SPACE INDUSTRY

ABOUT US

- Founded in 2002
- 100+ engineers
- Hungary | Serbia | Croatia | Germany | U.S.A.
- ISO 9001 | ISO/IEC 27001 | EN 9100
  TISAX Level 3 | GE IT-Security
- Advanced RDI competencies
- In-house material testing lab

VIRTUAL PROTOTYPES

LOWER COSTS
Development, testing & certification

DEVELOPMENT EFFICIENCY
Shorter go-to-market time

DESIGN OPTIMIZATION
Reduction of labor & material requirements
Drag & weight reduction
Reduced emissions & fuel efficiency
NVH and thermal comfort analysis
Reduced community noise

INNOVATIVE SOLUTIONS
Improved safety, de-icing scenarios
Electrification & autonomous systems

MATERIAL DESIGN
Advanced material solutions including composites

COMPONENT ANALYSIS
Landing gears
Hydraulic & break systems

Finite Element Analysis (FEA)
Computational Fluid Dynamics (CFD)
Electromagnetics Modeling (EM)
Multibody Dynamics Simulation (MBS)
1D System Simulation
Quasi-static & fatigue testing

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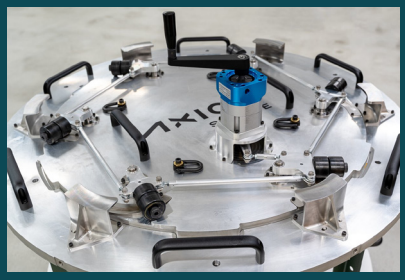
INDUSTRIAL EXPERIENCE | PROJECT EXAMPLES

Source: axiomspace.com

SERVICE MODULE DEVELOPMENT

Multi-objective structural topological optimization

Mass minimization, lifetime maximization

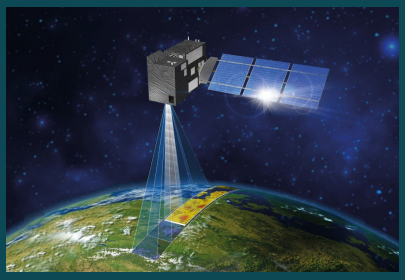


Source: axiomspace.com

DOCKING ADAPTOR TUNNEL

Composite closeout panel feasibility study

Lightweight composite redesign of metal parts



Source: thalesaleniaspace.com

ACOUSTIC ANALYSES FOR SATELLITE EQUIPMENT

Launch-related acoustic loads

Acoustic random response analysis

Power Spectral Density (PSD) profile

Stress analyses in frequency range

REFERENCES | TESTIMONIALS

"The key to managing challenging tasks is to have motivated and creative partners with highly competitive engineering and IT skills. In the last five years, we found Econ to be one of the best, highly scalable partners for custom solutions for engineering processes in occupant safety design. I would be happy to have more such companies in our supply chain in the future."

Balázs Fodor, BMW Group

EG, Virtualization Passive Safety, Virtual dummies, and material modeling

„For all points, signatures are comparable, and responses from Econ analysis cover PL acoustic needs. This is really satisfactory. Thales Alenia Space allows Admatis and Econ to move towards next acoustic activities with CDR model."

Vincent Effantin, Thales Alenia Space

Space Technology for Telecommunications, Earth Observation, Navigation, Science, Exploration & Orbital Infrastructure