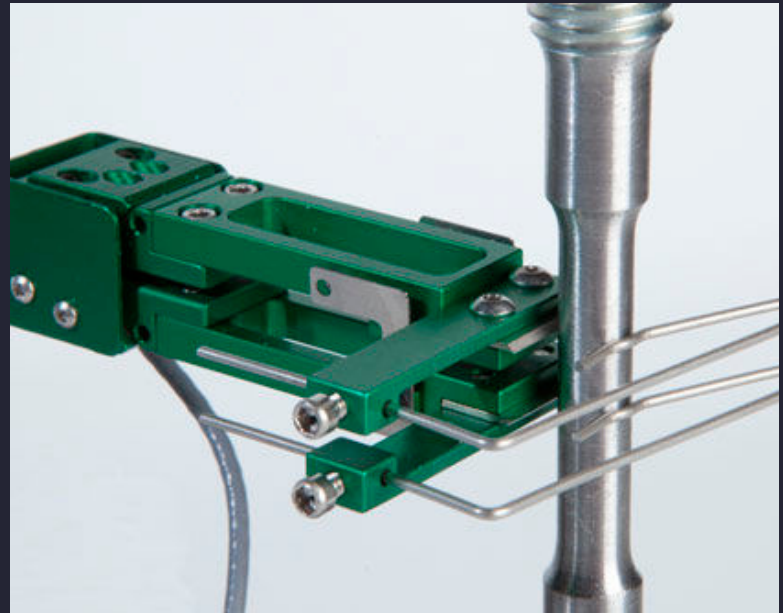
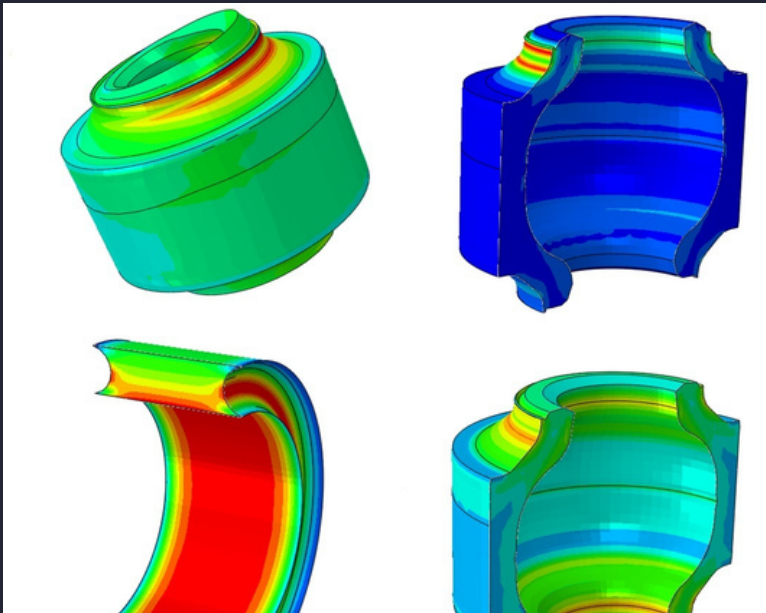
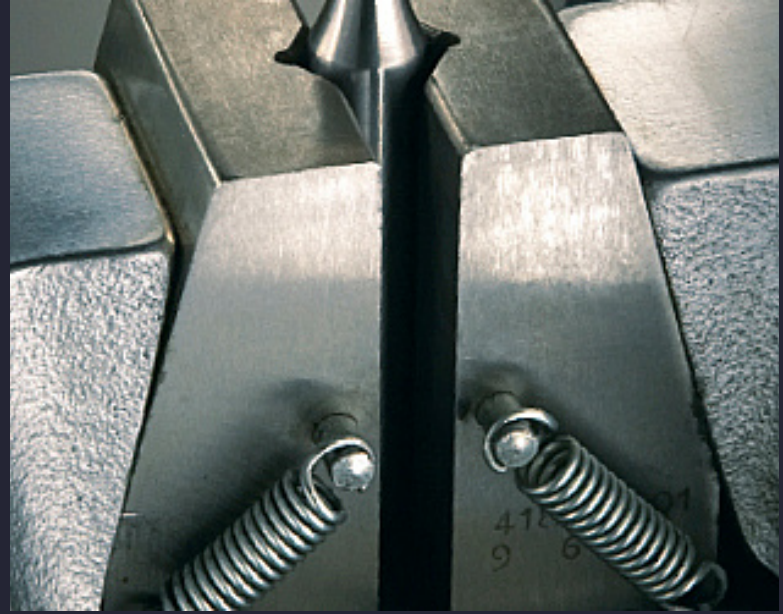
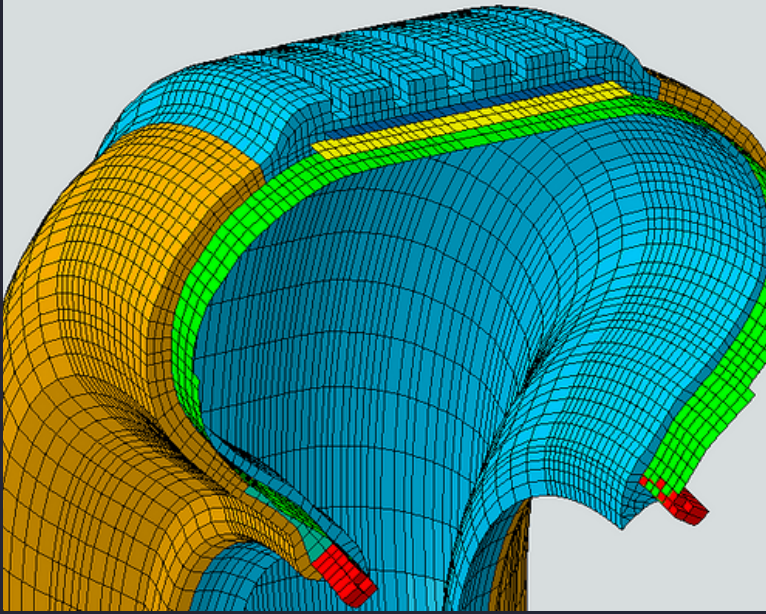


ADVANCED SCIENTIFIC & ENGINEERING SERVICES (ADVANSES)



Design, Testing and Analysis Services

Our goal is to provide customers with quality product design, accurate failure analysis, and reliable material and fatigue testing services.

www.advanses.com

We Provide Answers to the Following Questions

- 1) What are the mechanical properties of the material I am using?
- 2) Will my product endure the service loads for the required duration?
- 3) Why is my material/product failing?
- 4) What can I do to satisfy my customers' load and service requirements?
- 5) How can I ensure longevity of my material/product ?
- 6) Can I replace Cast Iron with Aluminium in my product?

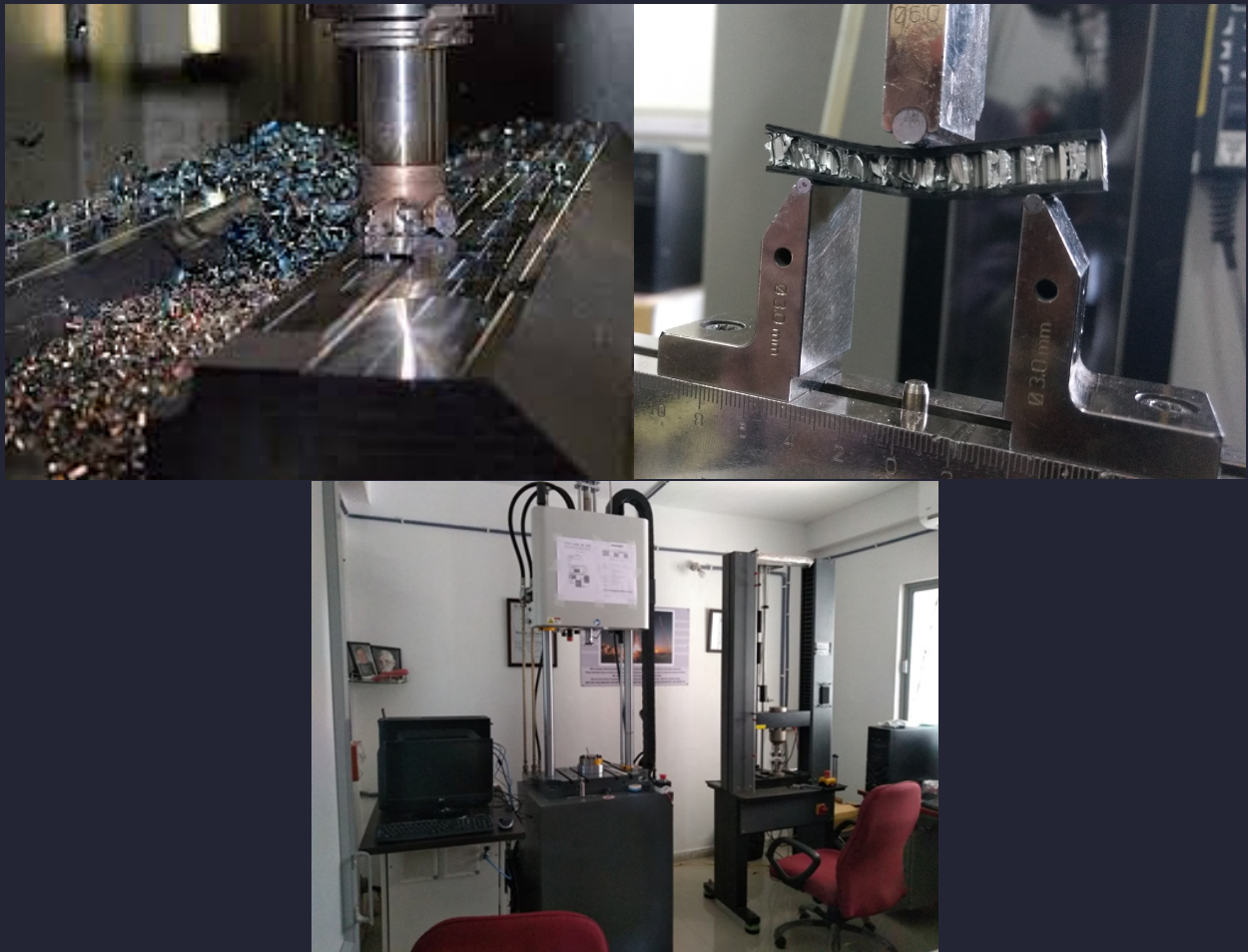


At AdvanSES, we provide solutions for companies and industries that require expert technical knowledge and proven performance in the field of engineering design and analysis, materials and product characterization and fatigue testing.

An Independent Material Testing Lab.

AdvanSES has a well established reputation across the globe for providing reliable and professional material characterization, mechanical testing and FEA services. All of our engineering and testing services are provided using state of-the-art servo operated equipments under stress and strain controls with contact and non-contact measurements.

- 1) Yield stress (0.2%, 0.5% and 1%)
- 2) Ultimate Tensile Stress (% Elongation)
- 3) Load Vs Displacement Curve
- 4) Reduction in Cross-sectional Area
- 5) Stress Vs Strain Properties Curve

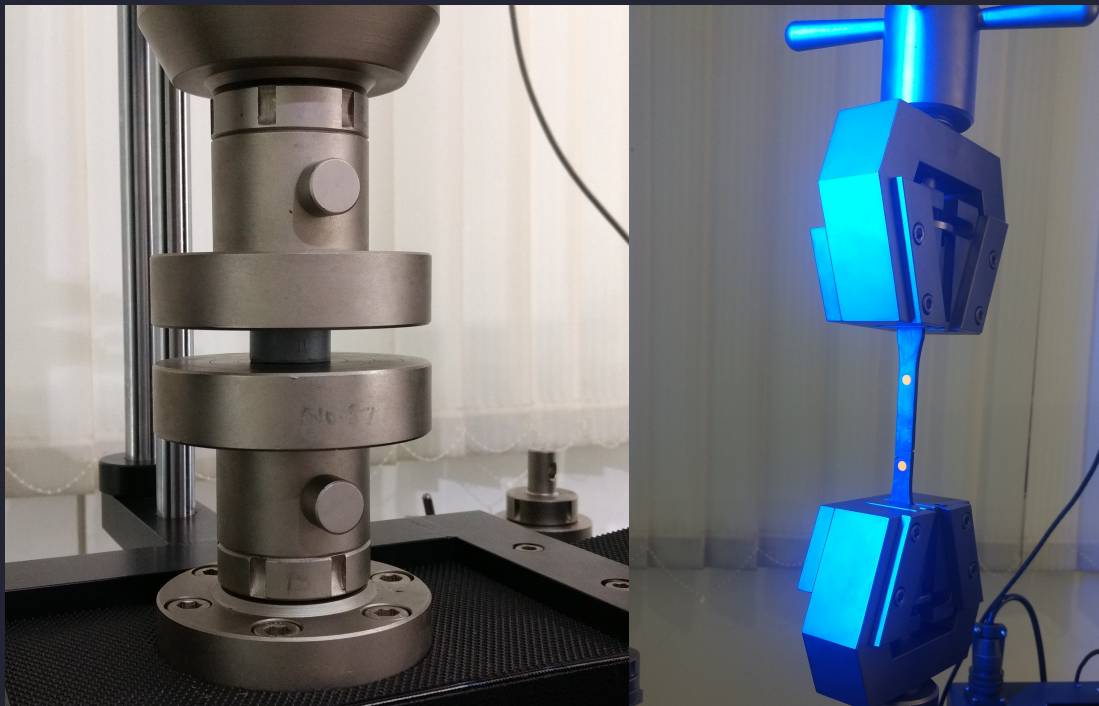


Mechanical Testing

An Independent Material Testing Lab.

We have full capabilities to characterize any kind of non-linear, rate dependent materials. AdvanSES provides material and product testing services for CAE engineers and analysts. The focus is on the characterization of non-linear materials such as rubber elastomers, plastics and composites for users of CAE softwares as Abaqus, Ansys, MSC Marc, and LS-Dyna.

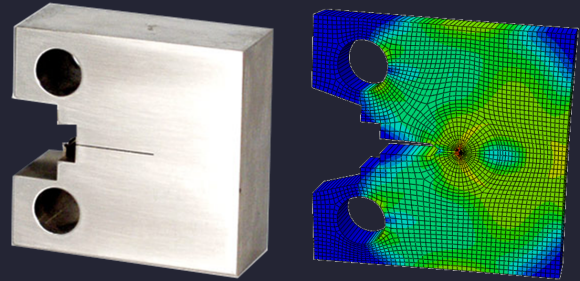
- 1) Hyperelastic Material Characterization
- 2) Thermoplastic, Hypoelastic and Foam Material Characterization
- 3) Viscoelastic Material Characterization by Stress Relaxation and Creep
- 4) Plasticity and Cyclic Loads



FEA CAE Material Characterization Testing
An Independent Material Testing Lab.

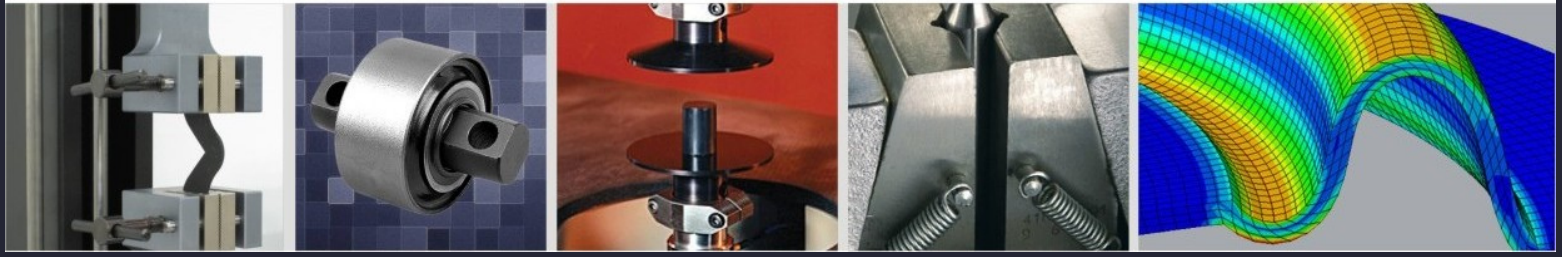
AdvanSES has expertise in carrying out full 360 degree material characterization of composite materials. We can extract test specimens from components and carry out tests as per established standards.

- 1) Young's Modulus, Poisson's Ratio, Stress-Strain Test Data
- 2) Izod, Charpy Impact, Instrumented Drop-Weight Impact
- 3) Heat Deflection Temperature (HDT)
- 4) Viscoelastic Material Characterization by Stress Relaxation and Creep
- 5) Fracture Toughness and Load-line Displacement
- 6) 3 and 4 Point Bending Tests
- 7) Axial Fatigue Tests



Composites Material Testing

An Independent Material Testing Lab.



Finite element analysis serves to model the mechanical behavior of products. Our portfolio in FEA consultancy projects includes a variety of industries including biomedical, automotive, and aerospace especially involving non-linear metals, polymeric and composite materials.

Structural Stress Analysis

- Geometric Nonlinear (Large deflection, large strain, etc.)
- Material Nonlinear (creep, plasticity, viscoelasticity, hyperelasticity, etc.)
- Contact Nonlinear

FEA Dynamic Analysis

- Transient Impact Analysis
- Modal Analysis
- Harmonic Analysis
- Steady State Dynamics

Finite Element Analysis FEA Services

An Independent Material Testing Lab.

Company Profile

AdvanSES is an engineering services company specializing in mechanical and materials characterization testing, fatigue testing and Finite Element Analysis FEA consulting services. Founded in 2002, We are now in 17th year of business and continue to grow.

The ever increasing demand for precise material and product engineering in the fast growing industries of today necessitates accurate material properties testing. Our micro firm located in a 6000 sq. ft. facility is certified as an MSME laboratory, and is one of the few to offer an entire spectrum of material testing, fatigue testing and engineering services.



Engineering with Rubber & Product Failure Analysis, 21-22 August @ Bangkok

An Independent Material Testing Lab.



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