

TRANSFORM DEVELOPMENTS WITH VIRTUAL PROTOTYPES

LOWER COSTS

Development, testing & certification

DEVELOPMENT EFFICIENCY

Shorter go-to-market time

Lower development & testing costs

DESIGN OPTIMIZATION

Reduction of labour, material consumption & weight

Lay-up optimization

INNOVATIVE SOLUTION

Improved safety & structural strength

IN-HOUSE MATERIAL TESTING LAB

Full-scale composite material characterization

Static test according to relevant ASTM and ISO standards

Fatigue lifetime investigation

Testing machines up to 100 kN load capacity

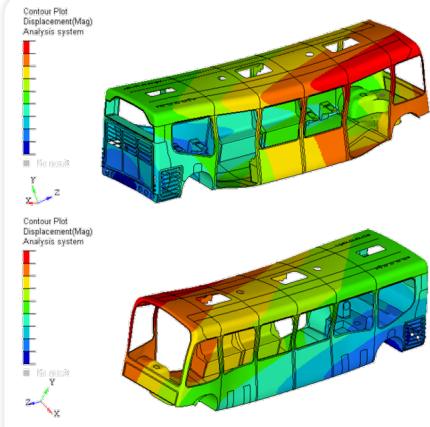
INNOVATIVE COMPOSITE ANALYSIS TOOLS

Advanced analysis of sandwich structures, FEA of composites

High-fidelity prediction of deformations, stresses & composite failure

High-precision methods to predict material properties from raw test data using AI and UQ techniques

INDUSTRIAL EXPERIENCES | PROJECT EXAMPLES



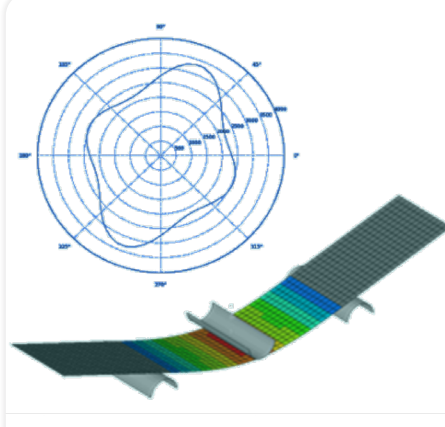
MODULAR COMPOSITE BUS

Complete analysis of the sandwich structure of a full-composite modular bus chassis.



COMPOSITE RAILWAY SEAT

Analyses from the aspect of deformations, stresses and composite failure



LAY-UP OPTIMISATION

Based on multiple failure criteria
Aided with in-house material characterization