

Lightweight Design for Profitability and Sustainability



With our simulation methods and consulting concepts, we help you to get a deep insight into the corresponding priorities of cost, performance and sustainability of your products and production technologies


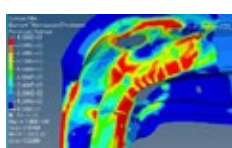



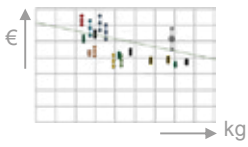
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Our Offer

- Research of state of the art components
- Identification of relevant specifications and standards
- Evaluation of alternative concept designs, materials, structural designs and manufacturing options
- Weight and process optimization with CAE methods
- Calculation of production costs and CO₂ footprint
- Development of components from concept to production
- Consulting services from experienced engineers
- Identification of opportunities

Your Benefits

- Understanding of established and emerging component designs
- Understanding of requirements for new products
- Neutral advice on the competitiveness of your current and future products
- Minimising risk in your new product development

Specs. 	CAE 
Material choices 	Production options & cost 
Alternative structural layouts 	

Our Expertise

As a one-stop shop for market and technology know-how, the AZL brings together experts and decision makers from academia and industry of all positions in the value chain, to support business and technology development. Located in the heart of one of the leading high-tech ecosystems, RWTH Aachen University, AZL assists in the development, benchmarking and improvement of composite-based multi-material technologies. In addition, the AZL Partnership frameworks offer access to an open innovation network of more than 80 international companies to find solutions for industrial implementation and establishment of lightweight technologies in the market.

Our Assets related to Lightweight Design

- Market insights from the AZL network and events
- Database with market, technology and cost analyses
- Close contacts to the entire value chain
- Experienced CAE team (static, dynamic, creep, fatigue and process simulations)
- Benchmarking of different solutions in terms of cost, weight and environmental impact
- In-depth knowledge of all production technologies for composite and hybrid materials
- Prototype manufacturing, testing and validation



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