

# Product Cost Benchmarking



We analyze your component and benchmark different concepts with same functionality and safety to identify ecological and economical saving potential

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You work in a competitive industry where cost dominates everything. Investing in a new technology to achieve potential cost and weight savings often requires a long-term commitment to that technology. If you focus only on your existing technologies, you put yourself at risk of losing market share to other competitors.

## Our Offer

The team of experienced engineers analyzes your component and compares different concepts with the same functionality and safety to identify cost and weight saving potential. We focus on the entire development chain, from materials to design and production.

**Objective:** Find cost-effective lightweight solution

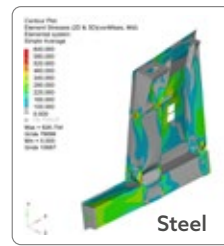
**Means/Methods:** CAD, CAE and process calculation software

**Typical duration:** 1-5 months

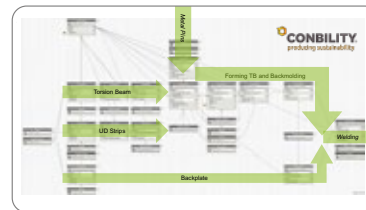
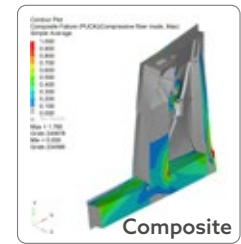
## Your Benefits

You will receive a customized report, including:

- State of the art overview
  - Specifications, standards, patents, competitors
  - Definition of relevant load cases, environmental and boundary conditions
- Possible concept ideas as a CAD pre-design
- CAE analysis with virtual optimization to identify design drivers
- Modelling of the complete process chain to improve production and bottlenecks
- Cost and CO<sub>2</sub> footprint calculation with sensitivity analysis for planning investments and revenue



Replacing steel rear seat back with back-moulded composite resulting in lighter and cheaper part



From a process model, we calculate the costs per part



## Our Expertise and Assets

AZL Aachen GmbH is your one stop shop in lightweight production. Based in the heart of one of the world's leading high tech ecosystems, RWTH Aachen University the AZL works closely with technology experts and ultra-modern infrastructure for the entire value chain of thermoplastic, thermoset and hybrid material systems

The senior design engineering team represents experts from designing, manufacturing and cost evaluation of composites with industry and research background.



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