

About this organisation

Machine translation

This profile has been machine-translated based on data provided in German.

We are developing the cars of the day after tomorrow! We are a recognised development partner to the automotive industry. We develop components and assemblies for our customers in the areas of interior, exterior, body, powertrain and calculation. Our project management guarantees smooth co-operation.

csi entwicklungstechnik GmbH's strengths lie in the pre-development and development, design, layout and calculation of vehicle assemblies, structural parts and surface parts (Class A, Class B) made of any plastics and metals, from concept to series production, with a focus on lightweight construction and sustainability. Due to the large number of materials and manufacturing processes, but also due to the ambitious lightweight construction targets of car manufacturers, with which we are confronted on a daily basis, we have a large pool of knowledge with regard to geometric, conceptual and material lightweight construction as well as sustainable material use (Cradle 2 Cradle, C2C). As part of our development projects, we carry out comparisons and selections of application-appropriate materials with regard to lightweight construction and sustainability. We are also skilled in structural analyses, topology optimisation, fibre composites, foaming, 3D printing, multi-material mix (...)

Robert-Mayer-Str. 10
74172 Neckarsulm
Baden-Württemberg
Germany
csi-online.de



Organisation type

Large enterprises

Sector



Employees

500 and more

Turnover

n/a

Funding



[Projects in the funding catalogue](#)



About this organisation

Main areas covered	FEM, CAD, FVK, CFK, FGL, Design, topology optimisation, 3D printing, bionics, lattice structure, Multi-material mix, new materials, Material substitution, shape memory
Infrastructure	FEM, Optistruct, Hyperworks, Crash, CAD, CATIA, NX, FGL, vehicle conversion, Concept workshop, rapid prototyping, Topology, bionics, 3D printing, Network, construction, design
Certifications	ISO 9001-2008
Keywords	FEM, CAD, development, design, Topology optimisation, FRP, CFRP, GFRP, 3D printing, rapid prototyping, SMA, Multi-material mix, construction, NX, CATIA, shape memory, Optistruct
Memberships	

Overview of lightweighting expertise

Machine translation

This profile has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Software & databases, Systems and end products, Others: null	✓	✓	✓
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Simulation, Technology transfer, Others: null	✓	✓	✓

Overview of lightweighting expertise

Machine translation

This profile has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction, Others: null	✓	✓	✓
Functional integration Actuator technology, Sensor technology, Thermal activation, Material functionalisation, Others: null	✓	✓	✓
<i>Measuring and testing technology</i>			
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Processes, Structural mechanics, Materials, Reliability validation, Others: null	✓	✓	✓
<i>Plant construction & factory automation</i>			
Recycling technologies Recycling, Upcycling, Others: null	✓	✓	

Overview of lightweighting expertise

Machine translation

This profile has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography, Others: null	✓	✓	✓
Coating (surface engineering) Galvanising, Painting, Others: null		✓	
Fibre composite technology Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion, Others: null	✓	✓	
Forming Others: null		✓	
Joining Others: null		✓	✓
<i>Material property alteration</i>			
Primary forming Injection moulding , Others: null	✓	✓	
Processing and separating Others: null			✓
<i>Textile technology</i>			

Overview of lightweighting expertise

Machine translation

This profile has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites, Wood, Others: null	✓	✓	
Cellular materials (foam materials) Others: null		✓	
Composites Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Others:	✓	✓	
<i>Fibres</i>			
Functional materials Shape memory materials, Others: null	✓	✓	✓
Metals Aluminium, Magnesium, Steel, Others:		✓	
Plastics Thermoset plastics, Elastomers, Thermoplastics, Others: null	✓	✓	
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

Machine translation

This profile has been machine-translated based on data provided in German.

Contacts

Mr Stefan Herrmann

Project manager

stefan.herrmann@csi-online.de