About this organisation

Machine translation

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

We develop the future, mobility and people. At 10 locations, we work from design to project management for industries that move us and others. Courageous, inquisitive, reliable and innovative, we use our core competences in the fields of structure, bodywork, lightweight construction, interior, exterior, electronics/electrics, simulation and consulting to more than convince our customers with our solutions and concepts.

csi's strengths lie in the pre-development and development, design, layout and calculation of vehicle assemblies, structural parts, 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



Large enterprises

Sector



Employees 500 and more

Turnover n/a

Funding

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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 EN 9001
Keywords	FEM, CAD, development, design, Topology optimisation, FRP, CFRP, GFRP, 3D printing, rapid prototyping, SMA, Multi-material mix, construction, NX, CATIA, shape memory, Optistruct

Overview of lightweighting expertise

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	Research	I Development	Manufacturing & Supply
Offer			
Products Parts and components, Software & databases, Systems and end products, Others (Prototypes, vehicle conversions, concepts, software for CATIA (macros), stand-alone software)	✓	~	✓
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Simulation, Technology transfer, Others (Design, development, layout, calculation of vehicle assemblies (interior, exterior, body), structural parts, surface parts (Class A, Class B) made of any plastics and metals with regard to lightweight construction and sustainability.)	✓	✓	✓

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Overview of lightweighting expertise

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Overview of lightweighting expertise

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	Research	N Development	Aanufacturin & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF,), Selective laser sintering (SLS), Stereolithography, Others (Design, development, layout, calculation of 3D printed components, in-house 3D printers for prototypes, samples, printing of results from topology optimisation, lattice structures)	✓	✓	✓
Coating (surface engineering) Galvanising, Painting, Others (Construction, development and design with galvanised and painted plastic components. Expertise in the area of trim panels.)		✓	
Fibre composite technology Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion, Others (Design, development, layout, calculation of fibre composite components, monocoque, structural parts, surface parts (Class A, Class B), draping analysis, fabric, scrims, prepreg, RTM, organosheet, SMC)	✓	✓	
Forming Others (Design, development, layout and calculation of complete vehicle bodies and sheet metal parts)		✓	
Joining Others (Workshop for prototypes, vehicle conversions, concepts, samples, construction, development, design and calculation with a wide range of joining materials (screws, rivets, snap nuts,))		✓	✓
Material property alteration			

Structural ceramics

(Technical) textiles

Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing Research **Development** & Supply Material **Biogenic materials** Bioplastics, Biocomposites, Wood, Others (Construction, development and design with bioplastics, biocomposites and evaluation or comparison of these with regard to Cradle 2 Cradle, C2C. Expertise in the area of decorative panels veneered with wood.) Cellular materials (foam materials) Others (Construction, development, design and calculation of EPP components, XLPE air ducts) Composites Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Others **Fibres Functional materials** Shape memory materials, Others (Intensive application research in the field of shape memory alloys, SMA including development and production of prototypes in house.) Metals Aluminium, Magnesium, Steel, Others Thermoset plastics, Elastomers, Thermoplastics, Others (Construction, development, design of vehicle components, structural parts, surface parts (Class A, Class B) made of plastics of all kinds.)

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Contacts

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