

SII Germany GmbH

About this organisation

Machine translation

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

Since 1996, SII Deutschland has specialised as an engineering services company in the development of complex systems, components, assemblies, structures and IT solutions. These include: Aircraft structures, aircraft, automotive and train interiors, passenger seats, operating and transport equipment as well as mechanical, electrical and electronic systems.

The lightweight construction expertise includes the design, construction and calculation of lightweight structures for aircraft, cars, trains and ships as well as their equipment and interior fittings. Research activities include the design of in-house programs and methods for determining the static and dynamic behaviour as well as the service life of fibre-reinforced plastics, sandwich structures and hybrid materials. Tools such as CATIA, SOLIDWORKS, CREO and NX, NASTRAN/PATRAN, ANSA, ANSYS and HYPERWORKS are used for this purpose.

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Baden-Württemberg
Germany
www.sii-engineering.de



SII Deutschland
Engineering & IT

Organisation type

Small or medium-sized enterprise

Sectors



Employees

250 up to 499

Turnover

€10m - €50m

Funding

n/a



About this organisation

Main areas covered	Compressor and turbine blades
Infrastructure	Own development facilities
Certifications	ISO9100 EN9100 LBA/EASA 21J DOA
Keywords	CAD FEM RBE V&V ILS PM DOCU
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Training, Consulting, Testing and trials, Engineering, Standardisation, HR services, Validation, Simulation, Technology transfer, Maintenance and repair, Approval	✓	✓	
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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Research Development **Manufacturing
& Supply**

Manufacturing process

Additive manufacturing

Coating (surface engineering)

Fibre composite technology

Forming

Joining

Material property alteration

Primary forming

Processing and separating

Textile technology

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
Cellular materials (foam materials) Syntactic foams	✓	✓	
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	
Fibres Glass fibres, Carbon fibres, Metal fibres	✓	✓	
Functional materials Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials	✓	✓	
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Woven fabrics, Nonwovens, mats	✓	✓	

Contacts

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Contacts

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