SIMCON kunststofftechnische Software GmbH

About this organisation

Machine translation

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

SIMCON develops software for the simulation and optimisation of plastic injection moulding and promotes lightweight, resource-saving design. The CADMOULD and VARIMOS solutions support companies in the efficient design of components and moulds - ideal for lightweight construction applications in automotive, aerospace, medical technology and beyond.

SIMCON offers comprehensive lightweight construction expertise through specialised simulation technologies for plastic injection moulding. With CADMOULD Foam, SIMCON supports the development of lightweight foam components by simulating chemical and physical foam injection moulding processes. CADMOULD 2K & Insert enables the simulation of multi-component and hybrid parts that combine different materials for maximum weight reduction. VARIMOS automates variant analysis and accelerates the optimisation of design and process parameters for lightweight and high-performance components. SIMCON is also involved in research into hybrid lightweight construction and offers an extensive material database and precise material measurement to enable simulations for new lightweight construction materials. SIMCON thus supports companies worldwide in the efficient and sustainable development of lightweight construction solutions for the automotive, aviation, medical technology and other industries.

Schumanstraße 18A
52146 Würselen
North Rhine-Westphalia
Germany
www.simcon.com

SIMCON

Organisation type
Large enterprises

Sectors
No specific sector

Employees
10 up to 49

Turnover
€2m - €10m

Funding

SIMCON kunststofftechnische Software GmbH

About this organisation

Main areas covered	Simulation, Injection moulding, Plastic, Hybrid material, Foaming
Infrastructure	Digital process chain, Digital product design, Virtual process and product optimisation, Simulation software, services
Certifications	TISAX
Keywords	Injection moulding simulation, Foam injection moulding, Hybrid components, Variant analysis, Lightweight plastics technology
Memberships	

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases	✓	✓	
Services & consulting Consulting, Simulation	✓	✓	

SIMCON kunststofftechnische Software GmbH

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts	✓	✓	
Functional integration			
Measuring and testing technology			
Modelling and simulation Optimisation, Processes	✓	✓	
Plant construction & automation			
Recycling technologies			
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming Impact extrusion, Others (LFT extrusion presses)	✓	✓	
Joining			
Material property alteration			
Primary forming Injection moulding	✓	✓	
Processing and separating			
Textile technology			

SIMCON kunststofftechnische Software GmbH

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	
Cellular materials (foam materials) Closed-pore	✓	✓	
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)	✓	✓	
Fibres			
Functional materials			
Metals			
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
Structural ceramics			
(Technical) textiles			

Contacts

Machine translation

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

SIMCON kunststofftechnische Software GmbH

Contacts

Mr Frederik Block

Project Manager R&D

frederik.block@simcon.com