simufact engineering gmbh

About this organisation

Machine translation

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

Simufact Engineering - an MSC Software company - is a globally active software company whose products and services are used for the design and optimisation of production processes in metalworking and metal processing. Typical fields of application are hot and cold forging, rolling, ring rolling, sheet metal forming, mechanical joining, heat treatment, welding and additive manufacturing.

With its simulation solutions, Simufact opens up a wide range of possibilities for exploring the potential of lightweight construction and optimising and validating manufacturing processes. The aerospace and automotive industries in particular are making great efforts to pursue lightweight construction by using the latest steel, aluminium and fibre composite materials (multi-material mix). Joining processes such as welding, bonding and mechanical joining are on the rise. Joining technology issues play a major role in the development and optimisation of manufacturing processes - and process simulation can open up innovation potential in answering these questions. Solid forming is also picking up on the lightweight construction trend and presenting new solutions that can be validated with the help of simulation technologies. With the help of new additive manufacturing methods, lightweight construction is also receiving new impetus; the simulation of additive manufacturing processes answers the question of producibility, among other things.

Tempowerkring 19
21079 Hamburg
Hamburg
Germany
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Organisation type
Small or medium-sized enterprise

Sectors

Employees
50 up to 249

Turnover
€2m - €10m

Funding
n/a

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About this organisation

Main areas covered	Simulation software, Simulation projects, Education and training Simulation, Lightweight construction research projects
Infrastructure	
Certifications	
Keywords	Simulation, Production simulation, Forming simulation, Joining simulation, 3D printing simulation
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases	✓	✓	✓
Services & consulting Simulation	✓	✓	✓
Field of technology			
Design & layout Lightweight manufacturing	✓	✓	✓
Functional integration			
Measuring and testing technology			
Modelling and simulation Multiphysics simulation, Optimisation, Processes, Materials, Reliability validation	✓	✓	✓
Plant construction & factory automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)	✓	✓	✓
Coating (surface engineering)			
Fibre composite technology			
Forming Bending, Impact extrusion, Compression moulding, Forging, Extrusion moulding, Stretch forming, Thermal converting, Deep-drawing, Rolling	✓	✓	✓
Joining Clinching, Hybrid joining, Adhesive bonding, Soldering, Riveting, Welding	✓	✓	✓
Material property alteration Mechanical treatment, Thermomechanical treatment, Heat treatment	✓	✓	✓
Primary forming Extrusion, Pultrusion	✓	✓	✓
Processing and separating Shearing/punching, Cutting	✓	✓	✓
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	✓
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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