

About this organisation

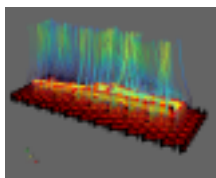
Machine translation

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

DHCAE Tools offers services and software tools for simulations, in particular flow and structural analyses. CFD focusses on heat transport (heat treatment), multiphase systems and coupled issues (fluid-structure, thermal-mechanical interactions). Both open-source solvers with high adaptability to the individual process and proprietary special solvers are used and optimised for on-site use.

Projects carried out to simulate the heat treatment of light metals (titanium components): Here, an automated flow simulation tool was developed that can predict the cooling of titanium components in still air and in a rapid cooling chamber in interaction with the environment. Very good agreement was achieved with experimentally measured cooling curves during heat treatment. The CFD calculation tool is used in-house by the end user to reduce component distortion due to creep during cooling.

Friedrich-Ebert-Str. 368
47800 Krefeld
North Rhine-Westphalia
Germany
www.dhcae-tools.de



Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

Up to 9

Turnover

Up to €2m

Funding

About this organisation

Main areas covered CFD FEA CAE CSM

Infrastructure

Certifications

Keywords CFD flow simulation, Heat analyses, Fluid-structure interaction, Thermal-mechanical calculation

Memberships

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting			
Simulation	✓	✓	✓
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation			
Multiphysics simulation, Structural mechanics, Materials	✓	✓	✓
<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 Mechanical treatment, Thermomechanical treatment, Heat treatment		✓	✓
Primary forming			
Processing and separating			
Textile technology			

Overview of lightweighting expertise

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Research Development **Manufacturing
& Supply**

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Contacts

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Managing Director

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