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

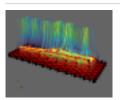
Employees

Up to 9

Turnover

Up to €2m

Funding



leichtbauatlas.de Page 1 of 4

About this or	ganisation
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** This organisation has been machine-translated based on data provided in German. Manufacturing & Supply Research Development Offer **Products** Services & consulting Simulation Field of technology Design & layout Functional integration Measuring and testing technology Modelling and simulation Multiphysics simulation, Structural mechanics, Materials Plant construction & automation Recycling technologies

leichtbauatlas.de Page 2 of 4

Textile technology

Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing Research **Development** & 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

leichtbauatlas.de Page 3 of 4

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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leichtbauatlas.de Page 4 of 4