3D ICOM GmbH & Co. KG

About this organisation

Machine translation

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

3D ICOM is an owner-managed family business. We have branches in Hamburg and Großenhain. We specialise in the manufacture of composite parts and components. We have extensive technologies and expertise in the manufacture of lightweight components with high strength and dimensional stability in CFRP and GFRP. We manufacture sandwich components in GRP and CFRP as laminates and as crush-core parts for aircraft construction.

We supply lightweight components and systems made of glass fibre and carbon fibre composites for the aviation industry. As a supplier with demanding customers, we attach great importance to future-orientated action. Thanks to our cooperation with universities and institutes, such as the TU Hamburg-Harburg, the Laser Centre North or the ZAL, we are always up to date with new materials, processes and ideas. We utilise this knowledge for the benefit of our customers.

Georg-Heyken-Str. 6
21147 Hamburg
Hamburg
Germany
www.3d-icom.com

Organisation type
Small or medium-sized enterprise

Sectors

Employees
50 up to 249

Turnover
n/a

Funding
n/a

Main areas covered	Fibre composite components in CFRP and GFRP, Production of sandwich components, New materials for aircraft cabins, Optimisation of autoclave technology
Infrastructure	Tensile, compression and crack testing, Non-destructive testing methods, Drum peel test, Electronic measuring methods, Chemical and microscopic analyses
Certifications	ISO 9001, DIN EN9100/AS 9100
Keywords	Autoclave technology, Hot pressing process, Crush core technologies, Aircraft Interior Parts, Lightweight design
Memberships	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Tools and moulds	✓	✓	✓
Services & consulting Training, Consulting, Testing and trials, Engineering, Prototyping, Validation, Technology transfer	✓	✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Thermal activation, Material functionalisation	✓		
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis		✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
Plant construction & automation			
Recycling technologies Material separation, Recycling	✓		✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Fused deposition modeling, Stereolithography	✓	✓	✓
Coating (surface engineering) Painting			✓
Fibre composite technology Manual lamination, Resin infusion process, Pre-preg processing, Vacuum infusion		✓	✓
Forming Compression moulding			✓
Joining Hybrid joining, Adhesive bonding, Riveting, Screwing			✓
Material property alteration Mechanical treatment, Thermomechanical treatment, Heat treatment			✓
Primary forming			
Processing and separating Milling, Sawing, Grinding, Cutting	✓	✓	✓
Textile technology Knitting, laid web production			✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)			✓
Fibres Aramid fibres, Glass fibres, Carbon fibres			✓
Functional materials			
Metals Aluminium, Steel			✓
Plastics Thermoset plastics			✓
Structural ceramics			
(Technical) textiles Laid webs			✓

Contacts

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Contacts

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