

INVENT GmbH

Innovative composite materials Realisation and marketing of new technologies

About this organisation

Machine translation

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

Since 1996, INVENT GmbH has grown into a recognised engineering and manufacturing specialist for fibre composite technologies, developing structural components from the initial idea through the fields of structural analysis and design development to series production. Another important area of expertise is research and development with a wide range of composite activities in the field of fibre composite structures.

The realisation and marketing of innovative composite material technologies as well as the planning, organisation, coordination and control as a service to achieve an efficient transfer of innovative technologies between basic research and industry is the object of the company's activities. As a service provider and consultant, INVENT GmbH works together with industrial and basic research-oriented partners and also successfully networks them into an overall system with a high level of market expertise. INVENT GmbH spans the entire spectrum from series production, e.g. for Airbus (Tier 1 supplier), through design and prototype construction to the development of future industrial technologies in subsidised projects. To this end, we offer complete concepts for product development from these future-orientated material systems, from calculation, dimensioning, design and the conception of production technology (prototyping) through to series production.

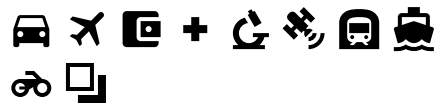
Christian-Pommer-Straße 47
38112 Braunschweig
Lower Saxony
Germany
www.invent-gmbh.de



Organisation type

Small or medium-sized enterprise

Sectors



Others: Messtechnik

Employees

50 up to 249

Turnover

€2m - €10m

Funding

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Main areas covered	Space components, Aerospace components, Function integration, Series production, Customised lightweight construction
Infrastructure	Autoclave and prepreg technology, Winding and pressing technology, Destructive and ultrasonic testing, Clean room and thermal cycling, Mechanical processing, painting
Certifications	DIN EN ISO 9001 : 2008, DIN EN 9100 : 2009, Nadcap Composites
Keywords	Satellite structures, Optical bench, Satellite antennas, Piezoceramic modules, DuraAct, R&D joint projects
Memberships	Composites United e.V.

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Overview of lightweighting expertise

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

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Painting	✓	✓	✓
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	✓	✓	✓
Forming Compression moulding			✓
Joining Adhesive bonding, Riveting, Screwing	✓	✓	✓
Material property alteration Heat treatment	✓	✓	✓
Primary forming Others (Laminating CFRP moulding tools)	✓	✓	✓
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting	✓	✓	✓
Textile technology Preforming	✓	✓	✓

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites	✓	✓	✓
<i>Cellular materials (foam materials)</i>			
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Nanocomposites, Natural fibre reinforced plastics (NFRP), Laminates	✓	✓	✓
Fibres Natural fibres	✓	✓	
Functional materials Piezoelectric materials, Others (Piezoceramic function modules)	✓	✓	✓
Metals Aluminium, Steel, Titanium			✓
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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