Innovative composite materials Realisation and marketing of new technologies

About this organisation

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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.

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Organisation type

Small or medium-sized enterprise

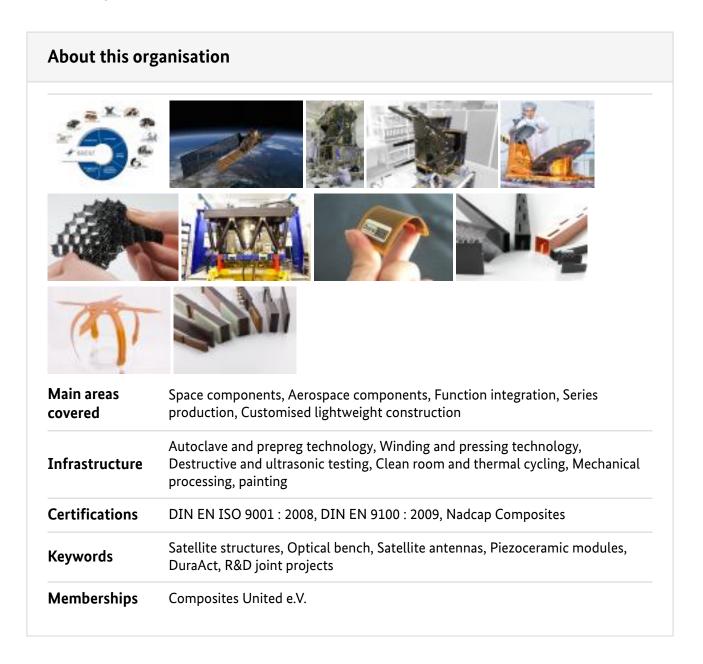


Others: Messtechnil

Employees 50 up to 249

Turnover €2m - €10m

Funding



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

Overview of lightweighting expertise				
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Manufacturing process				
Additive manufacturing				
Coating (surface engineering) Painting	\checkmark	\checkmark	\checkmark	
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre- preg processing, Vacuum infusion	\checkmark	\checkmark	\checkmark	
Forming Compression moulding			\checkmark	
Joining Adhesive bonding, Riveting, Screwing	\checkmark	\checkmark	\checkmark	
Material property alteration Heat treatment	\checkmark	\checkmark	\checkmark	
Primary forming Others (Laminating CFRP moulding tools)	\checkmark	\checkmark	\checkmark	
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting	\checkmark	\checkmark	\checkmark	
Textile technology Preforming	\checkmark	\checkmark	\checkmark	

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	Research	Development	Manufacturing & Supply	
Material				
Biogenic materials Biocomposites	\checkmark	\checkmark	\checkmark	
Cellular materials (foam materials)				
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	\checkmark	\checkmark		
Functional materials Piezoelectric materials, Others (Piezoceramic function modules)	\checkmark	\checkmark	\checkmark	
Metals Aluminium, Steel, Titanium			\checkmark	
Plastics Thermoset plastics, Elastomers, Thermoplastics	\checkmark	\checkmark	\checkmark	

Contacts

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