About this organisation

Machine translation

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

The Institute for Research and Development of Sports Equipment, FES for short, is an institute of the supporting organisation IAT/FES of the German Olympic Sports Confederation e.V. The primary aim of the institute is to provide German athletes in international competitions such as world championships or Olympic Games exclusively with innovative, competitive equipment for the most successful participation in these events. in these events as successfully as possible.

Everything that makes you fast is used. Extensive use of fibre composite components. The range here extends from flat supporting structures (canoes) to smaller hollow structures (railway wheel cranks) in prepreg construction. Computeraided optimisation processes ensure maximum utilisation of the material. From design to small series production, everything comes from a single source.

Tabbertstraße 8 12459 Berlin Berlin

☑ www.fes-sport.de

Germany

Main areas covered

Sports equipment and measurement technology

Infrastructure

Laboratory for component and material testing, CNC Cutter, Autoclave (up to 10m length), Various CNC milling machines and lathes

Certifications

Keywords

Memberships



Organisation type

Association, Chamber of industry and commerce

Sector



Employees

50 up to 249

Turnover

€2m - €10m

Funding

n/a

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Overview of lightweighting expertise Machine translation This organisation has been machine-translated based on data provided in German.								
						Research	N Development	/lanufacturing & Supply
					Offer			
Products Parts and components, Systems and end products, Tools and moulds	✓	✓	✓					
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer, Maintenance and repair	✓	✓	~					
Field of technology								
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓					
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓					
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis	✓	✓	✓					
Modelling and simulation Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Structural mechanics	✓	✓	✓					
Plant construction & automation								
Recycling technologies								

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	Research	Development	Manufacturin & Supply		
Manufacturing process					
Additive manufacturing					
Coating (surface engineering) Painting	✓	✓	✓		
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Prepreg processing, Vacuum infusion	~	~	✓		
Forming Bending, Rolling			✓		
Joining Hybrid joining, Adhesive bonding, Soldering, Sewing, Riveting, Screwing, Welding	✓	~	✓		
Material property alteration Mechanical treatment, Heat treatment	✓	✓	✓		
Primary forming					
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Honing, Sawing, Shearing/punching, Grinding, Cutting			~		
Textile technology Preforming	. /	./			

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing **Development** & Supply Research Material Biogenic materials Cellular materials (foam materials) Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Laminates Fibres Functional materials Metals **Plastics** Structural ceramics (Technical) textiles

Contacts

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