Test Methods and Experiment Division

### About this organisation

#### Machine translation

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

At the Institute of Lightweight Engineering and Polymer Technology at TU Dresden, nine specialist groups focus on different areas of lightweight construction. The development of material-adapted or component-specific test methods and the realisation of complex test rigs, which enable loads that are as close to reality as possible, are the main focus of the Test Methods and Experiment group.

The Institute of Lightweight Engineering and Polymer Technology at TU Dresden is characterised by its extensive equipment in the field of non-destructive and destructive testing of materials, semi-finished products, components and systems across all material classes. The work of the Test Methods and Experiments department focuses on the development of material-adapted or component-specific test methods and the realisation of complex test rigs. To validate the design methods and material models, load tests are carried out on components, system components and systems in which realistic, often very complex load conditions are modelled. This requires the development of load and component-specific test facilities and test rigs.

Holbeinstr. 3 01307 Dresden Saxony Germany

☑ tu-dresden.de/ing/maschinenwesen/ilk/forschung/fachgruppe-pruefmethoden-und-experiment



### **Organisation type**

University or higher education institution

### Sectors



#### **Employees**

Up to 9

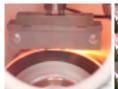
### Turnover

Up to €2m

### **Funding**



☑ Projects in the funding catalogue













leichtbauatlas.de Page 1 of 5

Test Methods and Experiment Division

	testing, Rotation test, Non-destructive testing
<del>.</del>	
Intractructure	NDT (technical CT, US), Rotor test rigs, Testing machines: static - highly dyn., Devices for thermomech, analyses, Temperature control and climate chambers
Certifications	
KΔWMnrnc	Material characterisation, Component testing, Non-destructive testing, Crash and impact, Fibre composite

### Overview of lightweighting expertise **Machine translation** This profile has been machine-translated based on data provided in German. Manufacturing **Development** Research & Supply Offer **Products** Parts and components, Semi-finished parts, Machines and plants, Systems and end products, Materials, Tools and moulds **Services & consulting** Training, Consulting, Testing and trials, Funding, Engineering, Standardisation, Prototyping, Validation, Simulation, Technology transfer

leichtbauatlas.de Page 2 of 5

Test Methods and Experiment Division

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	Research	M Development	lanufacturii & Supply		
Field of technology					
<b>Design &amp; layout</b> Others: null	<b>✓</b>	<b>✓</b>			
Functional integration					
Measuring and testing technology Component and part analysis, System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	<b>✓</b>	<b>✓</b>			
Modelling and simulation Loads & stress, Structural mechanics	<b>✓</b>	<b>✓</b>			
Plant construction & factory automation Plant construction	<b>✓</b>	<b>✓</b>			
Recycling technologies					
Manufacturing process					
Additive manufacturing					
Coating (surface engineering)					
Fibre composite technology					
Forming					
Joining					
Material property alteration					
Primary forming					

leichtbauatlas.de Page 3 of 5

Test Methods and Experiment Division

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Test Methods and Experiment Division

### **Contacts**

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leichtbauatlas.de Page 5 of 5