

## About this organisation

### Machine translation

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

IBT is your full-service provider in special machinery and plant engineering for heating and radiation technology. We design and optimise your thermal processes using infrared radiation, convection and heat conduction. From the design of the thermal process, supported by tests, to the production and commissioning of the system and after-sales service, we support you as a reliable partner throughout the entire project cycle.

The trend towards lightweight materials in all common branches of industry harbours huge potential for infrared applications. The production of thermoset materials takes place under specific heat supply in order to activate or accelerate curing processes. Infrared emitters are a powerful and efficient heat source that can be used to heat organic sheets to forming temperature in less than 60 seconds. In addition to fast heating and reaction times, infrared emitters offer direct, precise and process-reliable controllability depending on the product temperature. IBT Thermoprozesstechnik offers: - A heat treatment system customised to your product - Fast, direct, homogeneous and contact-free energy input - Integrated, variable zone control and connected load - Reduced system size and shorter process times - Heat only where it is needed

Am Junger-Löwe-Schacht 9  
09599 Freiberg  
Saxony  
Germany  
[www.ibt.de](http://www.ibt.de)



#### Organisation type

Small or medium-sized enterprise

#### Sector



#### Employees

10 up to 49

#### Turnover

€2m - €10m

#### Funding

n/a

## About this organisation



**Main areas covered** Industrial and laboratory systems, Continuous ovens, Batch ovens, Hybrid systems

### Infrastructure

**Certifications** ISO 9001

**Keywords** Infrared heat radiation, Organosheet, Lamination of thermoplastic, Tempering

**Memberships** RESSOURCETEX

## Overview of lightweighting expertise

### Machine translation

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Offer	Manufacturing		
	Research	Development	& Supply
<b>Products</b> Parts and components, Machines and plants, Systems and end products	✓	✓	✓
<b>Services &amp; consulting</b> Consulting, Testing and trials, Engineering, Technology transfer, Maintenance and repair	✓	✓	✓
<b>Field of technology</b>			
<i>Design &amp; layout</i>			
<b>Functional integration</b> Actuator technology, Media conductivity, Sensor technology, Thermal activation			✓
<b>Measuring and testing technology</b> Component and part analysis, System analysis, Materials analysis	✓	✓	✓
<b>Modelling and simulation</b> Life-cycle analysis, Optimisation, Processes, Materials	✓	✓	✓
<b>Plant construction &amp; automation</b> Plant construction, Automation technology, Handling technology, Robotics		✓	✓
<i>Recycling technologies</i>			

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<b>Fibre composite technology</b>			✓
<i>Manual lamination</i>			
<b>Forming</b>	✓	✓	
<i>Thermal converting</i>			
<b>Joining</b>	✓	✓	
<i>Soldering, Welding</i>			
<b>Material property alteration</b>	✓	✓	✓
<i>Heat treatment</i>			
<b>Primary forming</b>			✓
<i>Sintering</i>			
<b>Processing and separating</b>			
<b>Textile technology</b>	✓	✓	
<i>Textile surface treatment and finishing</i>			

## Overview of lightweighting expertise

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Manufacturing  
Research   Development   & Supply

#### Material

##### Biogenic materials

Bioplastics, Biocomposites, Wood



*Cellular materials (foam materials)*

##### Composites

Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Metal-ceramic composite, Metal matrix composite, Nanocomposites, Natural fibre reinforced plastics (NFRP), Laminates, Particulate composites



##### Fibres

Ceramic fibres, Carbon fibres, Metal fibres



*Functional materials*

##### Metals

Aluminium, Steel



##### Plastics

Thermoset plastics, Elastomers, Thermoplastics



##### Structural ceramics

Monolithic ceramics, Non-oxidic ceramics, Oxidic ceramics, Ultra-high-temperature ceramics



##### (Technical) textiles

Nonwovens, mats



## Contacts

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

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