

CENTROTHERM Systemtechnik GmbH

About this organisation

Machine translation

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

Centrotherm Systemtechnik GmbH was founded in 1994 and is headquartered in Brilon, Germany. We are represented by our own subsidiaries in all core EU countries as well as in the USA and China. Together we develop and manufacture innovative plastic exhaust and ventilation systems as well as high-quality lightweight components for the automotive industry.

Innovative processes are the first step towards series production of high-performance lightweight components. The right materials are the second. At Centrotherm, the perfect choice of materials is the result of close co-operation with customers and manufacturers. In recent years, organic sheets have established themselves on the market. High strength, low weight and processing by means of thermoforming or hybrid injection moulding predestine the material for the production of lightweight components in a wide range of applications. The material combination of continuous fibres and thermoplastic matrix can be optimally adapted to the respective application. Centrotherm uses various thermoplastic standard and construction materials such as PP, PE, PA, TPU, TPV or PC - reinforced with semi-finished aramid, carbon and glass fibre products or natural fibres such as hemp, kenaf and bamboo.

Am Patbergschen Dorn 9
59929 Brilon
North Rhine-Westphalia
Germany
www.centrotherm.com/



Organisation type

Large enterprises

Sectors



Employees

50 up to 249

Turnover

€10m - €50m

Funding

n/a

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About this organisation

Main areas covered Structural components, Interior, Design

Infrastructure

Certifications ISO 9001, ISI 14001, ISO 50001, IATF 16949

Keywords Thermoforming, Hybrid moulding, Injection moulding, Organosheets, Natural fibres

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Systems and end products	✓	✓	✓
Services & consulting Engineering, Prototyping		✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Powder coating			✓
Fibre composite technology Pre-preg processing	✓	✓	✓
Forming Impact extrusion, Compression moulding, Thermal converting, Deep-drawing	✓	✓	✓
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming Extrusion, Injection moulding		✓	✓
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	✓
<i>Cellular materials (foam materials)</i>			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)	✓	✓	✓
Fibres Glass fibres, Carbon fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
Metals Aluminium, Steel		✓	✓
Plastics Thermoplastics		✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Meshes, Laid webs, Woven fabrics, Nonwovens, mats		✓	✓

Contacts

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Contacts	
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