

# CarbonTT - Carbon Truck & Trailer GmbH

## About this organisation

### Machine translation

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

CarbonTT develops and manufactures structural components made of carbon fibre reinforced plastic (CFRP) for light commercial vehicles up to 4.25t GVW. Lightweight construction increases the payload and range of the vehicles while reducing CO2 emissions. Electric versions of the vehicles will be available from Q4 2017.

We are working on making CFRP components for the commercial vehicle and automotive industry economically viable. Our focus is on - Production-orientated component design - Cost-effective manufacturing processes - CFRP-metal interfaces and connections - Integration of components into the overall lightweight construction concept - Validation of hybrid structures

Airbusstrasse 1  
21684 Stade  
Lower Saxony  
Germany  
[www.carbonTT.com](http://www.carbonTT.com)



### Organisation type

Small or medium-sized enterprise

### Sector



### Employees

10 up to 49

### Turnover

n/a

### Funding



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## About this organisation

**Main areas covered** Development & production of CFRP parts

**Infrastructure**

**Certifications**

**Keywords** Carbon fibre plastic CFRP, Hybrid, Chassis Chassis rear frame

**Memberships**

## Overview of lightweighting expertise

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|                                                                                              | Research | Development | Manufacturing<br>& Supply |
|----------------------------------------------------------------------------------------------|----------|-------------|---------------------------|
| <b>Offer</b>                                                                                 |          |             |                           |
| <b>Products</b><br>Parts and components, Systems and end products                            |          | ✓           | ✓                         |
| <b>Services &amp; consulting</b><br>Consulting, Testing and trials, Engineering, Prototyping |          | ✓           | ✓                         |

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|                                                                                                                                         | Research | Development | Manufacturing<br>& Supply |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|---------------------------|
| <b>Field of technology</b>                                                                                                              |          |             |                           |
| <b>Design &amp; layout</b><br>Lightweight manufacturing, Lightweight design,<br>Hybrid structures, Lightweight construction<br>concepts |          | ✓           | ✓                         |
| <i>Functional integration</i>                                                                                                           |          |             |                           |
| <i>Measuring and testing technology</i>                                                                                                 |          |             |                           |
| <b>Modelling and simulation</b><br>Loads & stress, Structural mechanics, Materials,<br>Reliability validation                           |          | ✓           | ✓                         |
| <i>Plant construction &amp; automation</i>                                                                                              |          |             |                           |
| <b>Recycling technologies</b><br>Recycling                                                                                              |          |             | ✓                         |

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|                                                                                                                             | Research | Development | Manufacturing<br>& Supply |
|-----------------------------------------------------------------------------------------------------------------------------|----------|-------------|---------------------------|
| <b>Manufacturing process</b>                                                                                                |          |             |                           |
| <b>Additive manufacturing</b><br>3D printing                                                                                |          |             | ✓                         |
| <i>Coating (surface engineering)</i>                                                                                        |          |             |                           |
| <b>Fibre composite technology</b><br>Manual lamination, Resin infusion process,<br>Resin transfer moulding, Vacuum infusion |          | ✓           | ✓                         |
| <i>Forming</i>                                                                                                              |          |             |                           |
| <b>Joining</b><br>Hybrid joining, Adhesive bonding, Riveting,<br>Screwing, Welding                                          |          | ✓           | ✓                         |
| <i>Material property alteration</i>                                                                                         |          |             |                           |
| <b>Primary forming</b><br>Pultrusion                                                                                        |          | ✓           | ✓                         |
| <i>Processing and separating</i>                                                                                            |          |             |                           |
| <i>Textile technology</i>                                                                                                   |          |             |                           |

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|------------------------------------------------------------------------------------------------------|----------|-------------|---------------------------|
| <b>Material</b>                                                                                      |          |             |                           |
| <i>Biogenic materials</i>                                                                            |          |             |                           |
| <b>Cellular materials (foam materials)</b><br>Closed-pore, Open-pore                                 |          | ✓           | ✓                         |
| <b>Composites</b><br>Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP) |          | ✓           | ✓                         |
| <b>Fibres</b><br>Glass fibres, Carbon fibres                                                         |          | ✓           | ✓                         |
| <i>Functional materials</i>                                                                          |          |             |                           |
| <i>Metals</i>                                                                                        |          |             |                           |
| <b>Plastics</b><br>Thermoset plastics, Thermoplastics                                                |          | ✓           | ✓                         |
| <i>Structural ceramics</i>                                                                           |          |             |                           |
| <b>(Technical) textiles</b><br>Yarns, rovings, Laid webs, Woven fabrics                              |          | ✓           | ✓                         |

## Contacts

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## Contacts

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