

## About this organisation

### Machine translation

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

RIFTEC GmbH - Friction Stir Welding is a pioneer in the field of industrial friction stir welding. We have been welding and processing aluminium and other light metals for 20 years. We manufacture lightweight components for the automotive, aerospace and transport industries, among others. Our focus: weight savings through thin-walled aluminium profiles, tailored blanks or clever combinations of different materials.

RIFTEC introduced friction stir welding to industrial applications 20 years ago. From the very beginning, the idea was to open up new possibilities for lightweight construction with this high-quality welding process. The first friction stir welded components included extremely thin-walled profile groups and multi-part aluminium tailored blanks. Today, we manufacture lightweight components for a wide range of industries. The choice of materials has expanded beyond aluminium to include other light metals and even mixed compounds. Extruded profiles, sheet metal, cast components and combinations can be welded. The advantages of friction stir welding are obvious: in aluminium we achieve strengths of 80-100% of the base material. Sheet metal components such as tailored blanks can therefore be easily formed and further processed. We do not use any shielding gases or filler materials. We also work exclusively with green electricity and therefore have no impact on the CO2 footprint of our customer components.

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[www.riftec.de](http://www.riftec.de)



### Organisation type

Small or medium-sized enterprise

### Sectors

No specific sector

### Employees

10 up to 49

### Turnover

n/a

### Funding

n/a



## About this organisation

**Main areas covered** Friction stir welding, Aluminium welding, Production of lightweight components

### Infrastructure

**Certifications** ISO 9001:2015, EN 15085-2 CL1, DIN EN ISO 25239

**Keywords** Friction stir welding, Aluminium welding, Welding of lightweight components

**Memberships** DVS

## Overview of lightweighting expertise

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**Research   Development   Manufacturing & Supply**

### Offer

*Products*

*Services & consulting*

### Field of technology

*Design & layout*

*Functional integration*

*Measuring and testing technology*

*Modelling and simulation*

*Plant construction & automation*

*Recycling technologies*

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
<b>Joining</b>			
Welding, Others (Friction stir welding)	✓	✓	✓
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			
<b>Material</b>			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

## Contacts

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