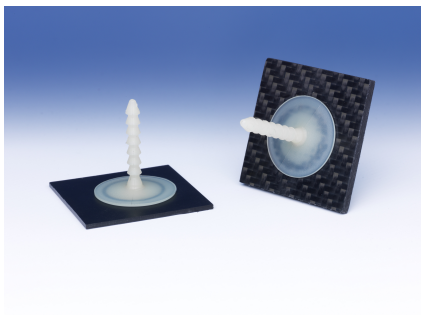


Laser welding of plastics and composite structures

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Laser transmission welding can be used reliably to join thermoplastics and fiber-reinforced composites.

With laser transmission welding, a large variety of plastics and composite materials can be welded. Also non-similar materials can be joined. The [group "Composites"](#) offers welding processes for the following materials and material combinations:

- Constructional and high-performance plastics
- Glass-fiber reinforced components with CFRP components
- CFRP-CFRP joints
- Thermoset/thermoplastic joints (hot melt gluing, SIPN structures)

Furthermore, the group offers new, innovative laser-based processes for fiber placement.

Welding processes can be analyzed using pyrometry, thermography and NIR and VIS cameras.

This service is, among others, used in the following areas:

Manufacturing processes:

Welding

Material groups:

Composites

Plastics

Imaging processes:

Micro-CT images

SEM images

Consulting, development and contract research:

Feasibility studies

Process and system development

Technology consulting and transfer

Technology transfer from research to industry

Fields of application and industrial sectors:

Aerospace

Automotive

Material processing

Medical technology and biotechnology

Sensor technology

We will be happy to discuss your individual requirements. Please feel free to contact us.

Contact



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