

Additional Information

Composites:

www.igcv.fraunhofer.de/composites



Composite Recycling:

www.igcv.fraunhofer.de/composite-recycling



Contact

Lazarula Chatzigeorgiou

Division Director Composites

+49 821 90678 - 201

lazarula.chatzigeorgiou@igcv.fraunhofer.de

Steffen Geinitz

Senior Business Developer

+49 821 90678 - 222

steffen.geinitz@igcv.fraunhofer.de

**Fraunhofer Institute for Casting,
Composite and Processing Technology IGCV**

Am Technologiezentrum 2

86159 Augsburg, Germany

www.igcv.fraunhofer.de/en

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Composite Technologies

**Uncover the Potential of Composites:
Building a Lightweight and
Sustainable Future**

Uncover the Potential of Composites

As a leading research institute in the field of composites, Fraunhofer IGCV offers extensive expertise in the manufacturing engineering and processing of composites.

We cooperate closely with industrial companies to provide tailored solutions and improve efficiency, quality, and productivity in composite manufacturing. Our focus is on developing efficient process chains and automating manufacturing processes.

From traditional lamination and infusion techniques to fully automated processes such as Pultrusion, Automated Fiber Placement, Automated Tape Laying, and Fiber Patch Placement we research a wide range of manufacturing technologies to meet the requirements of different industries. We offer state-of-the-art research infrastructure for process development, prototyping, and characterization of composite materials. Through life cycle assessments and the development of sustainable recycling solutions, we expand the applicability of composite materials in various industries.



Research Focus Topics

- Prototyping, testing, characterisation and analysis of composite materials
- Optimising the properties and processes of composites to expand their applicability in diverse industries
- Innovative recycling processes to extend the life cycle of composite materials and reduce their environmental impact

Our Service Portfolio

- Technology Screening / Market Research / Technology Benchmarking
- Feasibility Studies and Prototype Manufacturing
- Machine and Process Qualification / Process Training and On-Site Support
- Sustainability Assessment from Process to Corporate Level
- One-Stop-Shop for (Recycle-) Material Characterization
- Manufacturing Design Studies and Production Planning, Optimization using Model-driven Design

*title: AFP plant Coriolis C1.2 ©Fraunhofer IGCV
left: wetlaid technology ©A3 | Christian Strohmayer
top: Cevotec SAMBA Pro ©Fraunhofer IGCV*

