DEVELOPMENT AND ENGINEERING CENTER FOR ADVANCED FIBER PLACEMENT TECHNOLOGIES

FIBER PLACEMENT CENTER

FPC FIBER PLACEMENT

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SIMPLIFY COMPOSITES













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for industries like automotive, aerospace, sports and industrial applications: Make composites efficient and economical. Satisfy the needs of the market. The Fiber Placement Center with its partners offers space for your ideas, concentrated expertise and the high-end equipment to bring to life this ambition. On demand, at one place, simple and beneficial for you. So as to make market opportunities your market success. Let's start a conversation.





SGL Carbon's TowPregs for processing with AFP and FPP systems

INNOVATIVE MATERIAL MIX AND ENGINEERING EXPERTISE

Your advantages with SGL Carbon: What matters to SGL Carbon is added value for you. Not only offering first-class products but also the opportunity to develop components and systems together. With a broad range of materials SGL Carbon supplies the perfect basis for efficient, cost-optimized serial production of fiber composites.

In partnership with the customers, SGL Carbon develops intelligent, trendsetting and sustainbale solutions that deliver a clear benefit.

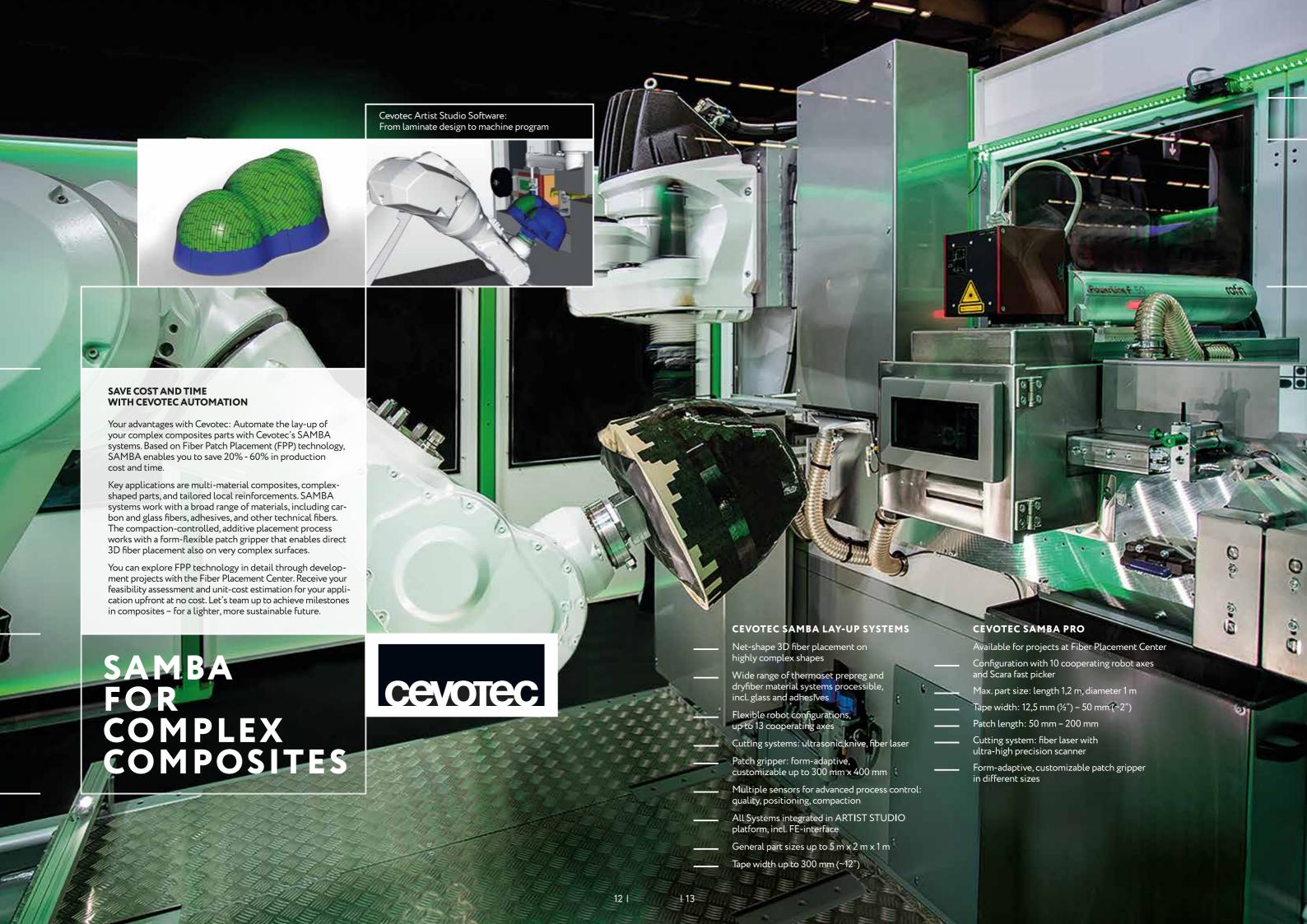
With the in-depth materials, engineering and application know-how, SGL Carbon makes a substantial contribution to major future topics like mobility, energy and digitization.

SMART SOLUTIONS













GOALS

DEVELOPMENT OF CUSTOMIZED MATERIALS AND FIBER PLACEMENT SOLUTIONS FOR EFFICIENT AND SUSTAINABLE LIGHTWEIGHT COMPOSITE COMPONENTS

APPLICATION OF COST-EFFECTIVE MATERIALS

SCRAP AND CYCLE TIME REDUCTION

COMBINATION OF TECHNOLOGIES TO IMPLEMENT AN EFFICIENT PROCESS ROUTE FOR A GIVEN COMPOSITE COMPONENT

FPC IS A COOPERATION AGREEMENT BETWEEN R&D AND INDUSTRY PARTNERS

Definition of general scope, goals, IP, confidentiality etc. Agreement for the utilization of the different machines No legal status e.g. as a joint venture

JOINT INDUSTRY PROJECTS

Individual project definition

Short to medium-term contract research

Contract between customer and
one or more FPC Partner/s

PUBLICLY FUNDED PROJECTS

Cooperation of partners from research and industry in a consortial R&D project: EU, national etc.

Involvement of one or more FPC partners

REACH FOR YOUR GOALS

FROM MATERIAL TO FINAL COMPONENT

IMPROVING PRODUCTS AND PROCESSES

(Re-)design to AFP and FPP Product-process matching Improved performance and cost efficiency

DEVELOPING PRODUCTS AND PROCESSES

Material development
AFP and FPP digital process chain
Optimization of processing parameters

INTRODUCING NEW TECHNOLOGIES

Manufacturing process routes From TRL 1 to product qualification Prototypes and small batches

FPC FIBER PLACEMENT CENTER

CHARACTERIZATION AND TESTING

Analysis of layup quality High-quality testing facilities Test reports

QUALIFYING FOR THE FUTURE

Technical training for engineers and/or operators Knowledge transfer to customer teams

CONSULTING ON INNOVATIONS

Market, trend and profitability analyses
Feasibility studies