



SAERTEX®

PLANET COMPOSITE



PLANET COMPOSITE IS OUR CONTRIBUTION TO SUSTAINABLE AND FUTURE-READY COMPOSITES

For more than 40 years, we have developed textile reinforcements for applications that make a difference. Our composite materials support the energy transition in wind power and enable energy-efficient lightweight construction in aviation, transportation, and industry. Today, the world faces new challenges: conserving resources, reducing emissions, and closing material cycles. Sustainability has long been a key economic factor.

Planet Composite underlines our contribution, focusing on how we support customers in developing composite solutions that are both technically strong and future-ready.



CLOSE TO OUR CUSTOMERS FROM DAY ONE



For years, we have expanded into new regions to stay close to our customers and their applications. Family-owned yet globally active, our company supports its customers and partners through local teams – and are we directly on site when it matters.

Future-ready solutions start within our own company. We know where we stand and what we have achieved so far. The following milestones show how we are already addressing future requirements in composite manufacturing today. And we continue to improve – step by step.



MANAGEMENT & COMPLIANCE

- // Codes of conduct for employees and suppliers
- // Certified management systems and external ratings such as ISO 14001 or Ecovadis
- // Additional environmental and quality certificates



FACILITIES & INFRASTRUCTURE

- // Photovoltaic systems
- // Transition to LED lighting
- // Optimized compressed air systems



MATERIAL & RESOURCE EFFICIENCY

- // Recycling of production residues
- // Width-adjustable machines and digital inspection systems for consistent quality and material savings
- // More than 60% reduction in total production waste since 2019



GLOBAL FOOTPRINT

- // Worldwide distributor and sales network
- // Local teams and production capabilities in key markets
- // Short distances, reliable availability, and local support

ALL-IN-ONE COMPOSITE SOLUTIONS FOR THE WIND INDUSTRY

FROM MATERIAL TO TECHNICAL SUPPORT

Wind energy plays a central role in the energy transition. Our solutions are designed to make turbines lighter, more durable and more cost-efficient. From unidirectional NCFs to optimized core materials and custom-made kits, our products and services work together to enable stable processes, efficient manufacturing, and better use of resources.



SAERfoam® FOR WIND

SAERfoam® for Wind is a further development of our previous SAERfoam materials – designed especially for rotor blade construction.

- // Cost-effective alternative to high-density PET and balsa
- // Industrially manufactured: reliable supply chain and stable costs
- // Improved shear modulus, low resin consumption and high drapability
- // Tests prove process reliability and robustness



The material replaces balsa with a fully controlled, industrial alternative. Local production reduces transport emissions, while tailored mechanical properties ensure minimal material use and prevent waste.

CUTTING & KITTING

SAERTEX® KITS provide custom-cut reinforcements, ready for immediate use in your production. Based on CAD data, all parts are precisely cut, efficiently nested and packed in the correct lay-up sequence. This approach minimizes waste, shortens lay-up time and reduces labor costs for a more efficient manufacturing process.

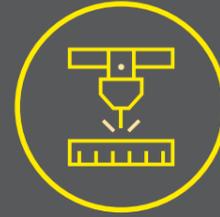
- // **Precise cuts and part-specific kits:** Cutting based on CAD data and a clear labeling system ensures smooth workflows, clean processes and consistent component quality
- // **Shorter layup time:** A well-structured packaging concept and pre-assembled layers reduce assembly time and internal work steps
- // **Improved production planning:** Kits are ready to use, making your manufacturing process more transparent and easier to plan



Our Cutting & Kitting service reduces waste, streamlines production, and makes composite manufacturing more efficient and predictable – for smarter resource use.

HIGH-PERFORMANCE MATERIALS FOR DEMANDING APPLICATIONS

High-performance applications require high-performance material solutions that deliver reliable and predictable results. Controlled processes and defined material properties enable durable components with consistent technical quality. This ensures stable performance across demanding operating conditions and long service lifetimes.



WIDTH-OPTIMIZED MULTIAXIAL FABRICS

TAILORED AND COMPONENT-SPECIFIC MATERIALS

Width-optimized multi-axial fabrics enable composite production with minimal waste, while carefully selected raw materials balance performance and cost – critical for high-volume automotive applications with tight cost targets.

Building on many years of experience in series production, **SAERTEX®** supports automotive customers from material design to process integration. The focus is on stable, reproducible processes that integrate seamlessly into automotive production environments.

- // Significantly reduced or eliminated cut-offs
- // Improved material efficiency and lower total material costs
- // Flexible adaptation to different component designs



By consistently avoiding waste, we make a direct contribution to Sustainability. Sustainability is therefore not seen as an add-on, but as an integral

Reinforcing the automotive industry



AI-BASED TEXTILE INSPECTION

RELIABLE MATERIAL QUALITY

Material quality is what matters. For structural aerospace parts, even minor deviations from high-end specifications can affect processing, component performance and long-term reliability.

The **SAERTEX® Smart Detect Control System**, our in-house developed AI-based inspection system, monitors fabrics in-line during production. It detects potential defects both on the surface and inside the fabric – reducing manufacturing risk and ensuring consistent, reliable quality for our customers.

- // AI-based and automated inspection
- // Non-destructive inner layer material control
- // Continuous and transparent quality monitoring

reducing waste and CO₂ emissions in composite production. part of an economical and technically clean production process.



Reinforcing the aerospace industry



TEXTILE KNOW-HOW FOR EVERY MOVE

Industrial applications require stable, precise materials that are efficient to process, while lightweight design and resource conservation are becoming increasingly important. Composites offer clear durability advantages – no corrosion and far less fatigue – reducing maintenance, replacements and waste. This is Planet Composite in action: applying deep textile expertise to make composite manufacturing more efficient, reliable and sustainable across industries.



MATERIAL DEVELOPMENT FOR HIGH-PERFORMANCE SKIS

The partnership between Fischer Sport and **SAERTEX®** has spanned more than 30 years. Together, we have developed materials precisely tailored to the next generation of skis. Over the years, more than 20 new material variants have been created – always with the aim of achieving the optimal balance between weight, stability, and performance.



Customized material development and close partnerships ensure that structures and fiber architectures are tailored to real production requirements and future-ready applications.

Find out more about "Fischer Ski"



STEADY PLUS UD FOR ADVANCED MARINE STRUCTURES

This unidirectional NCF is a specially developed solution for thick laminates, designed to prevent dry spots and improve quality while offering high compressive strength, reduced resin use, and good drapability.

- // Optimized for thick laminate structures up to 70 mm
- // Fast resin infusion and uniform impregnation to avoid dry spots
- // High fiber volume content (~60%) for excellent mechanical performance
- // Outstanding evenness and wrinkle-free drapability



The unidirectional Steady Plus aligns fibers in the primary load direction to achieve more efficient force transmission. Moreover, its high fiber content reduces resin consumption, lowering material usage and overall laminate weight and cost.



Find out more about Steady Plus UD



SAERcore® RC – REDUCED CO₂ FOOTPRINT ACROSS MOBILITY APPLICATIONS

Ideal for fast resin injection, **SAERcore®** uses one or two layers of chopped strand mat (CSM) with engineered flow media to enable horizontal resin flow followed by vertical impregnation. SAERcore RC features a 100% recycled core, combining improved performance with enhanced sustainability.

- // Reduced CO₂ footprint thanks to 100% recycled core material
- // Up to 50% faster resin flow for shorter injection and demolding cycles
- // Excellent drapability and easier mold closing, even for complex geometries



By replacing synthetic fibers such as polypropylene with recycled alternatives, manufacturers can significantly reduce the environmental footprint of a component from the very beginning of its life cycle.

BUILT FOR TOMORROW'S MARINE REQUIREMENTS

The marine industry is moving towards sustainable solutions because the framework conditions are clearly changing. Crucial here are materials and concepts that combine performance, safety, and cost-effectiveness throughout the entire life cycle.



Advanced, marine-specific materials, combined with our SAERTEX application engineering, support customers from hand lay-up to infusion, enabling more resource-efficient processes.



Reinforcing the marine industry





Dr. Bahar Cat-Krause
Global Head of Sustainability,
People & Business Assurance

“Growing regulatory and stakeholder requirements demand sustainability concepts that are robust, transparent and verifiable.”



Dr. Daniel Stadel
Founder and Managing Director

“Future readiness is not a label – it is an economic necessity creating real competitive advantages. What matters is turning complex requirements into clear, actionable decisions. Easy, understandable, effective – certified with the global PLAN8T standard.”



Christian Beckmann
CEO

“My vision: Enabling technically strong and future-ready composite solutions while supporting our customers every step of the way – understandable to everyone, economically attractive, and globally scalable.”



Peter Bachmann
Founder and Managing Director

“For globally operating industrial companies, sustainability is no longer an option – it is a reporting requirement. It determines controllability, investment readiness and market access. SAERTEX makes it supply-chain-ready with robust, integrable building blocks for a real circular economy.”



Holger Sasse (Graduate Engineer - Dipl.-Ing.)
Founder and Managing Director

“True circularity is the result of a circular (re-)design and uncompromising material health. A product is only a genuine ‘nutrient’ for future generations if its components are chemically safe, maintain their technical quality through infinite cycles, and the entire value chain is transparent and connected very close. Materials that cannot be effectively recovered in practice are not circular.”



A RESPONSIBLE PERSPECTIVE ON THE COMPOSITE LANDSCAPE

CLIMATE PROTECTION MITIGATION

CLIMATE CHANGE ADAPTATION

PROTECTION OF WATER AND MARINE RESOURCES

TRANSITION TO A CIRCULAR ECONOMY

POLLUTION PREVENTION AND CONTROL

PROTECTION OF BIODIVERSITY AND ECOSYSTEM



THE SAERTEX® CIRCULAR CONCEPT

Climate change, resource scarcity, and stricter ESG regulations are reshaping global markets. Companies are under increasing pressure to reduce CO₂ emissions, ensure supply chain transparency, and develop future-ready solutions. The EU Taxonomy Regulation provides transparency and guidance on EU-specific requirements.

The key questions are:

- How can composite solutions become circular and future-ready?
- And how can ecological requirements be aligned with economic reality?

The answers develop step by step. Through the responsible use of resources and energy. Through rethought processes and new technologies. And through products that combine technical performance, economic efficiency, and measurable sustainability.

We know where we stand today and what we have already achieved. At the same time, we are aware that continuous development is essential – at both company and product level.

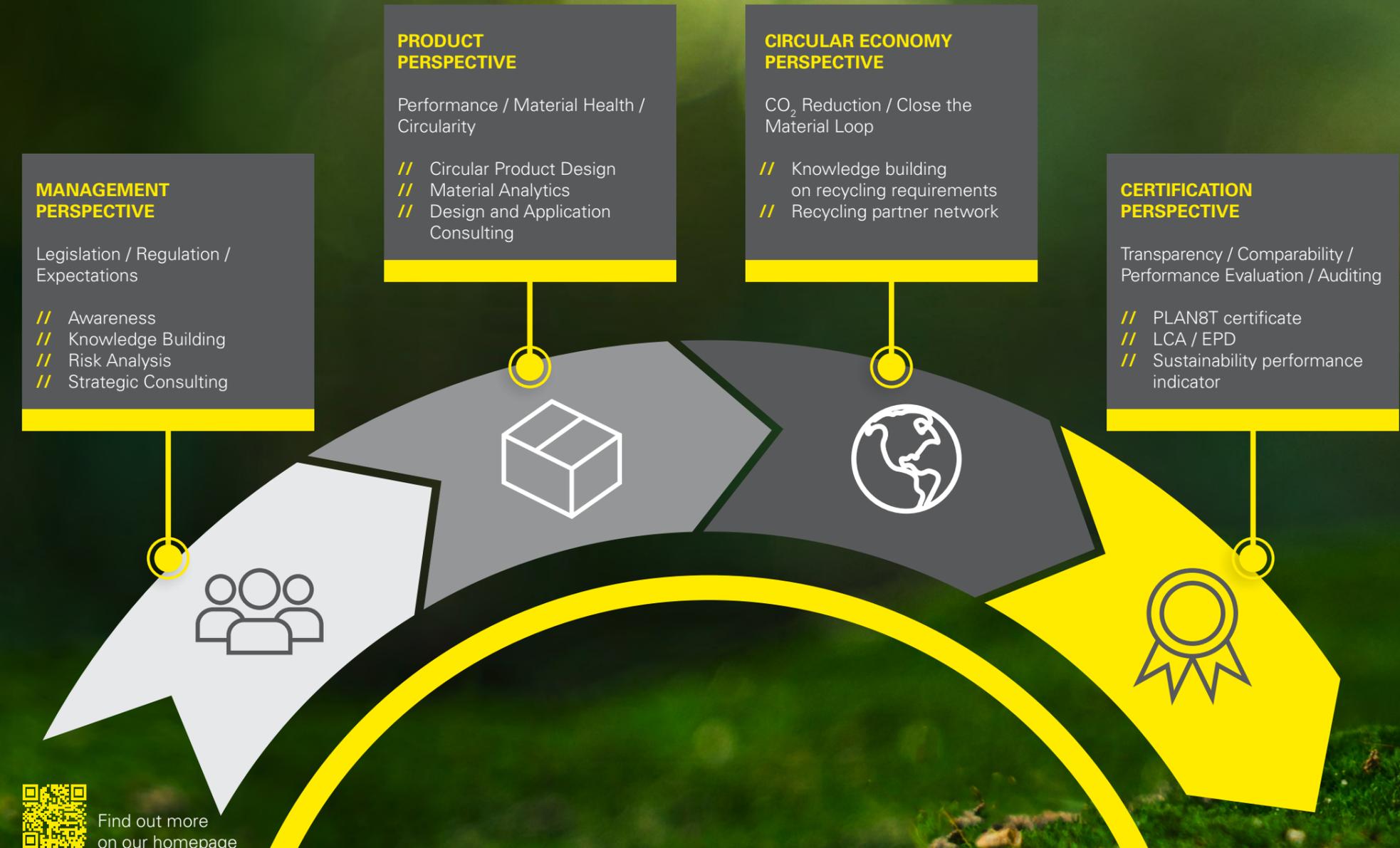
For us, future readiness is not a promise, but an ongoing process. Transparent. Measurable. Together with customers and partners.

For composite solutions with perspective.

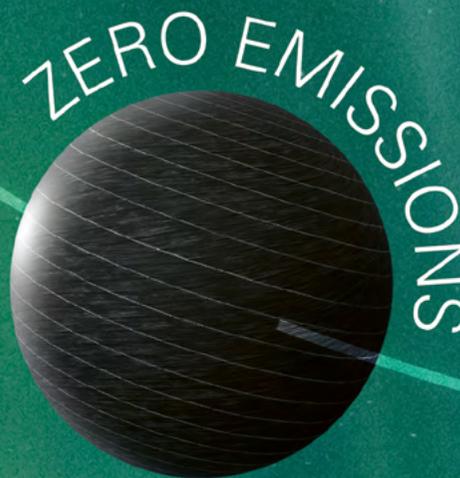
TECHNICALLY STRONG. ECONOMICALLY VIABLE. FUTURE-READY.



SAERTEX® CIRCULAR



ONE COMMON GOAL: FUTURE-READY COMPOSITES



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