



Everything
you can imagine
in carbon fibre

We create customized projects, from design to production and over all stages of the process. Our seasoned R&D team is ready to help and provide answers to your needs.

CARBOTAINER



Design

Finite Element Analysis

Prototyping

Testing/certifications

Manufacturing



We transform ideas into carbon fibre products

We are experts in composite materials and we can help you no matter the stage of your idea. From design to mass production, through finite element analysis, prototyping or testing. Our R&D team is ready to be of service and help you develop your idea.

1. Design

The design of composite products requires knowledge of the different manufacturing processes. With that in mind, we adapt designs made with traditional materials to be made in composites. If requested, the products are designed with the appropriate manufacturing process for mass production.

2. Finite Elements Analysis

We use finite element analysis to optimize the design and to ensure the correct mechanical and structural behaviour of the components.

3. Prototyping

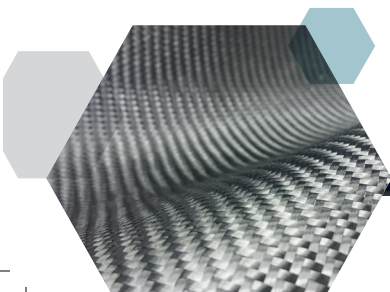
Whether we designed it or you provide the drawings, we can prototype the product in our facility with our highly trained composite technicians and engineers.

4. Testing/certifications

We can develop custom fixtures to ensure the prototypes are tested properly with the correct boundary conditions to provide reliable feedback to the design and analysis group. If the products must be certified we work closely with independent inspection agencies to provide a smooth process.

5. Manufacturing

Once the component or product is certified, we have an ISO:9001 certified line for mass production in our facilities.



Make your idea a reality

We are experts in product design and we have extensive experience in composite manufacturing. We design the products with manufacturing in mind to provide the best outcome for customers.

1. In-house mould production

We have the ability to produce moulds in-house. The moulds are designed and made for the desired production throughput.

2. Pre impregnated fibre sheet

To start producing the components, resin is mixed with fibre. This “Prepeg” fibre (resin pre impregnated carbon fibre) does not require adding additional resin into the mould, so just heat and pressure are required to harden the resin.

3. CNC router

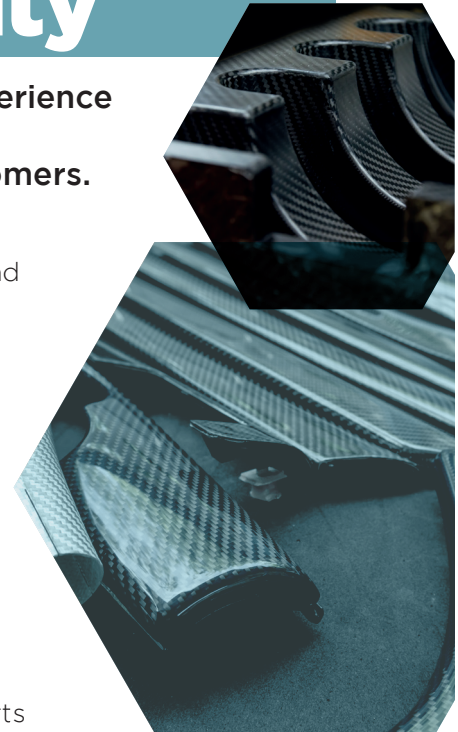
This technology allows cutting panels or carbon fibre layers in any shape required by the customer.

4. Infusion/laminating

We can develop the moulds required to use the infusion/laminating process. The parts can be vacuum bagged or if the geometry on both sides of the parts must be controlled a caul can be used or a fully enclosed mould is needed.

5. Filament winding

We have extensive experience with filament winding and we have certified many tanks per EN and ISO standards. The filament winding process can be used not only to wind tanks but for many other axisymmetric parts such as drive shafts (prop shafts), electrical and lighting poles, pipes, etc.



**Everything you
can imagine
in carbon fibre**

Composite panels.

Sport: Skiing material, motor biking, paddle tennis, golf.

Automotive: H2 carbon fibre tanks.

Transportation: Components for buses, trains, ships, trucks, forklifts, pushers, planes.

Mobile phone cases, clocks...



Our R+D centres:
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