

LA COMPOSITI

DESIGN AND PRODUCTION OF
COMPOSITES MATERIAL'S PARTS

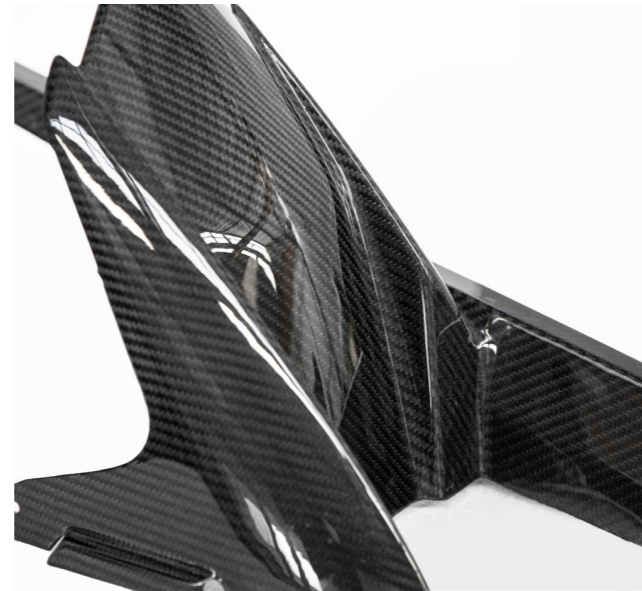
COMPANY PROFILE

WHO WE ARE



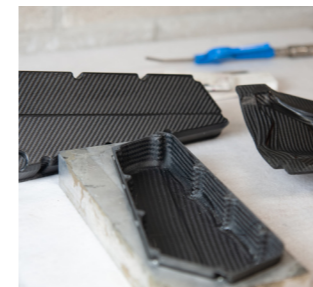
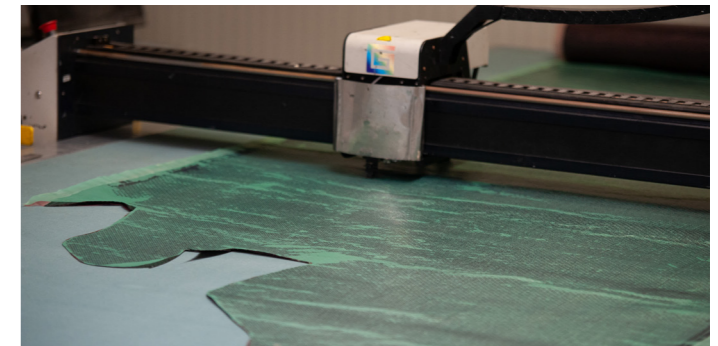
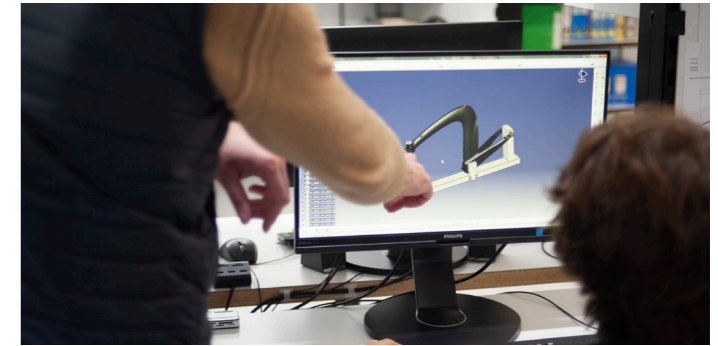
We are a young company composed by a pool of technicians with previous experience in the design and production of high quality carbon fiber and composite material manufactures for racing, automotive, aerospace, medical, nautical, furniture and design sectors.

Our team, thanks to constant research and development and technical know-how achieved in the various sectors, is able to produce any type of product by taking care of the entire process starting from the design of the mold to the painting cycle of the final component.



WHAT WE DO

La Compositi aims to advise and agree with the customer the most advantageous production solutions for him in terms of sustainability, functionality, aesthetics and costs. In the entire production process we apply the best technologies currently existing in the field, and together with consolidated suppliers we propose the latest technological solutions. Rapid prototyping, autoclave, infusion, rtm and press molding are just some of the technologies made available to the customer.



OUR MAIN EQUIPMENT

- **Refrigerated cell** 6,5 x 2,5m for storing pre-impregnated fabrics;
- **Plotter** with 2.5 x 7m table for cutting fabrics;
- **Horizontal autoclave** D1,5m x 4,5m;
- **Painting cabin** for small products.



AVAILABLE MATERIALS

CARBON FIBRE

Thanks to its high versatility and excellent mechanical properties, it is one of the most popular materials in a variety of sectors. It is characterised by high mechanical strength, comparable to the most prestigious metals, but with a low specific weight.

FIBRE GLASS

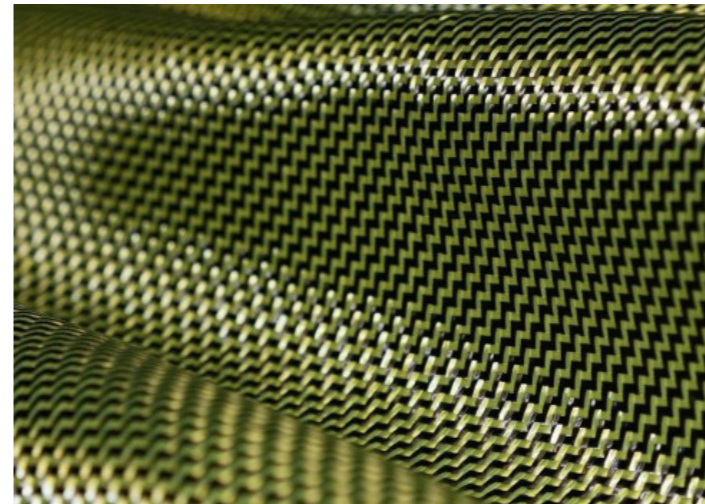
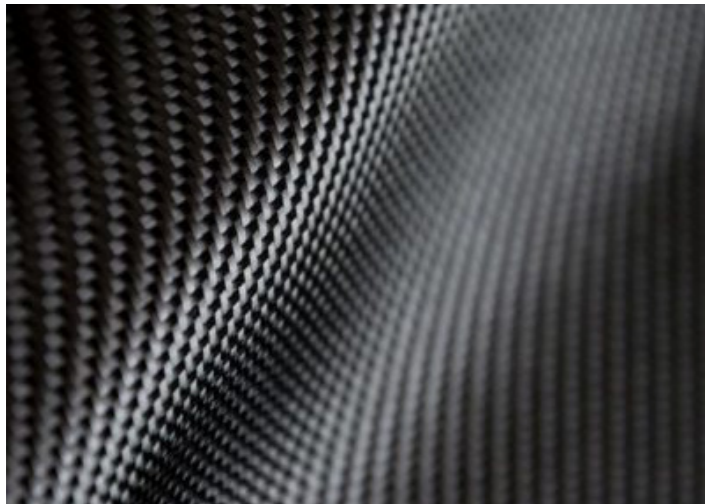
It is often the ideal compromise between cost and performance and its good characteristics make it one of the most widely used composite materials. Unlike carbon fibre, glass fibre is also an excellent electrical insulator.

ARAMID FIBRES

Unlike carbon and glass fibres whose breaking point is determined by their fracture within the fabric, Kevlar and aramid fibres in general are characterised by high ductility, high mechanical performance and good thermal resistance. Precisely because of these characteristics, aramid fibres are often added to products made with other types of fibres in order to increase their mechanical properties.

NATURAL FIBRES

Mainly composed of flax or hemp fibres, they are of recent use in the world of advanced composites and still little used even though they also have good mechanical properties. Interesting are the developments that these fibres are having in the field of eco-sustainability as, combined with biological resins, they allow for the disposal of artefacts and production waste by combustion or more sustainable processes.



OUR MAIN ROOMS



CLEAN ROOM:

Is a temperature and humidity controlled room where the main composite lay-up operations take place, in particular the lay-up of pre-preg fabrics. To ensure maximum performance and quality, these rooms require stringent environmental controls.

CUTTING ROOM:

room used for cutting pre-preg fabrics by using special automatic plotters. It is in this area that the jigs required for each article are recorded and material waste is minimised by the nesting of the cut, i.e. the calculation of the best positioning of the shapes on the fabrics.



TRIMMING ROOM:

area equipped with various types of machines and hand tools required for manual deburring of small batches of products, gluing of any inserts and re-moulding of moulds.

In addition to the rooms listed above, the company is divided into two main departments, the first dedicated to autoclave moulding and the second to manual and infusion moulding.



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