

Customised composites

The benefits of fibre reinforced composites are well-known: high strength and stiffness at low mass and a high durability. Furthermore, the freeform possibilities of 3D printing technologies are very exiting. We have developed a process where we combine the benefits of both worlds.

We are a group of engineering enthusiasts. With backgrounds in aerospace, mechanical and civil engineering; we love technology and materials. We are continuously looking how processes, products and structures can be optimised and improved.

Large composite products

Fibre reinforced composites are used extensively in markets like marine, aerospace, sports, wind energy and building and construction. Their unique properties stem from the fact that fibres are oriented in various directions to provide very high strength and stiffness. It's exactly this fibre orientation which is hard to achieve in most existing 3D printing processes.

Unique process

We've developed a method that allows us to make seriously large parts, where we still fully control the

fibre directions; using the benefits of 3D printing, but without the drawbacks.

Perfect designs

We have the possibility to model and perform FEA simulations specific for fibre reinforced products to get optimised designs. Additionally, we can optimise product interiors and hence optimise the performance of the final part.

Production capability

Produced on our in-house developed machines we can supply to our customers:

- Composite products in small series (starting at one product)
- Functional prototypes
- Products with shape and functionality adapted to demand each time.



New 3D Process

The FRP3D process is unique in the world: We use UV light to create high performance thermoset composites

Large size

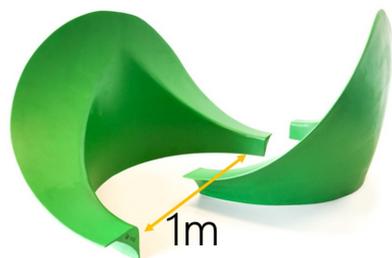
We can produce seriously large parts. Unlike most 3D printers, we can go up to meters in our production.

Complex Geometry

We do not require a mould in our process. This allows us to create more complex shapes than ever before.

Full properties

We apply fibres in all directions required: Our products fully match "traditional" composite properties.



Product produced with FRP3D process



Customised for each patient

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FRP3D is a brandname of Fiberneering Technology Development BV.