



The Superstrata bike is made from a single piece of industrial grade carbon fibre | Photo source [Superstrata Innovation](#) > [Mobility & Transport](#) > [Customised bike frame 3D-printed in industrial-grade carbon fibre](#)

CUSTOMISED BIKE FRAME 3D-PRINTED IN INDUSTRIAL-GRADE CARBON FIBRE

 MOBILITY & TRANSPORT

The single-piece frame design makes the bike far stronger than current versions made of the same material

Spotted: The Superstrata is a bespoke bicycle with a 3D printed, carbon fibre frame. Available as either a manual or electric version, the bicycle frame is made from a single piece of industrial-grade carbon fibre. Unlike other carbon fibre bicycles on the market, the Superstrata has no joints, bolts, screws or glue. A thermoplastic polymer mix covers the carbon fibre which, when combined with the structural strength of a single piece of the frame, makes the bicycle far stronger than anything else currently available.

Using a range of measurements, including riding style and experience, the bicycle is tailored to the exact needs of each rider. The strength and minimal weight of the frame makes the bike incredibly versatile, allowing for use on almost any surface, from touring to off-road gravel and city riding. The down tube contains the battery for the electric version, and almost every aspect of the bike is customisable. Riders can add anti-theft technologies, a phone charging port, trip recorder, integrated lights and more.

The company is currently crowdfunding on [Indiegogo](#), with an estimated shipping date of December 2020 for the first round of production. The first 500 bikes will be numbered. Supporters of the campaign can choose from rewards that include sets of carbon fibre wheels and the electric and classic versions of the bicycle.

So often used for its strength, other carbon fibre-based innovations spotted by Springwise include [jewellery](#) that alerts wearers to unsafe social distancing and an architectural [material](#) mixed with

bamboo for increased flexibility and resilience in design.

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Takeaway:

3D printing is being used more and more ambitiously, from providing speedy fixes to social distancing requirements in enclosed spaces to re-engineering construction concrete. It is an exciting technology, yet creators and entrepreneurs must keep consideration of environmental impacts at the top of every project. When possible, printing needs to use next generation ecologically friendly materials to make the innovation truly meaningful.