

You bring
the **vision**.

We'll give
it **form**.

For over 25 years, C-Tech has been designing and manufacturing premium carbon fibre composite solutions.

We have supplied over 97 countries with carbon tubes, sail battens, masts, spars and custom carbon composites. Operating from two prominent locations - our headquarters factory in New Zealand, and our new European factory in Spain.

C-TECH®



Headquarters Manufacturing NZ FACILITY

In Auckland, New Zealand, our headquarters purpose-built 2000sqm factory, established in 2010, meeting our diverse manufacturing needs.

Humidity & temperature controlled

Clean Room

C-Tech has a world class 600sqm high stud positive pressure, humidity and temperature controlled clean room. This infrastructure for our Pre-preg work has increased capacity for production as well as further improving the quality of the manufacturing processes.



Temperature & pressure controlled

Autoclave

C-Tech's pressure and temperature controlled autoclave can cure components up to 15.3m long and 1.44m in diameter in one piece.

Max Internal Length:	15.3m
Max Internal Diam:	1.44m
Max Temperature:	180°C
Max Pressure:	7 ba



Subtractive Manufacturing

5 Axis CNC Router

Our Routech R200 5 Axis CNC router is used to machine foam cores, moulds, jigs, prototypes, 2D and 3D sheets and complete post production processing in house.

XYZ bed size:	5.5m x 1.5m x 1.0m
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Eastman S125

Plotter

Eastman S125 Pre-preg cutter/plotter.

Flatbed size:	10m x 1.5m
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Custom Built

Roll Wrapping Machines

C-Tech has a range of custom built roll (also known as mandrel) wrapping machines. The wrapping machines improve quality of laminate consolidation and can handle tubes up to 1200mm in diameter, 15m long.





Europe Manufacturing SPAIN FACILITY

Located in Cabanes, Castellón, our new expansive 2205sqm factory, with an additional 700sqm yard, offers limitless possibilities.

Humidity & temperature controlled

Clean Room

C-Tech Europe has a world class 555sqm high stud positive pressure, humidity and temperature controlled clean room. This infrastructure for our Pre-preg work will continue to increase capacity for production as well as further improving the quality of the manufacturing processes.



Temperature & pressure controlled

Autoclave

C-Tech Europe has a pressure and temperature controlled autoclave can cure components up to 13m long and 1.5m in diameter in one piece.

Max Internal Length:	13m
Max Internal Diam:	1.5m
Max Temperature:	120°C
Max Pressure:	5 bar



Custom Built

Roll Wrapping Machines

C-Tech Europe has a range of custom built (NZ replicas) roll wrapping machines (also known as mandrels). The wrapping machines improve quality of laminate consolidation and can handle tubes up to 300mm in diameter, 13m long.



Material Processing

Pre-preg Cutting Machines

C-Tech Europe has slitting and 2D cutting machines to accurately process prepreg materials ready for lamination.



25 yrs

SINCE C-TECH WAS ESTABLISHED

97

COUNTRIES SUPPLIED

1000+

COMPANIES SUPPLIED

Manufacturing Processes:

Precision remains a paramount at C-Tech across both our New Zealand and European facilities. We employ proven techniques, such as mandrel wrapping and female moulding, with our custom tooling. Our commitment to excellence is further amplified through oven and autoclave curing, ensuring strength at its core. Every component undergoes meticulous assembly, painting, and finishing detailing, culminating in products that exemplify our dedication to quality.



Exceptional service



Unmatched quality



Fast turn around times



Custom design flexibility

Our Services

Composite Part Manufacturer

We specialise in manufacturing premium custom carbon fibre parts. We keep up to date with the latest materials and technology to ensure our customers receive the best solution for their needs.

Production

Our facilities are set up to provide a steady, consistent, reliable production run of composite parts. Handling both small and large production runs for customers including the manufacture of OEM (original equipment manufacturer) parts. QC is a huge priority to us, ensuring our products are of the highest standard.

Product Development & Prototyping

Our team are experts in composite materials and manufacturing, turning your ideas into reality. Our experience in product development and production across an array of manufacturing methods will ensure your project is on the right path, saving time and costs.

CNC Machining & Tooling Manufacturer

We use high durability composite tooling for all of our projects. Our capabilities with our plotter, CNC machine, tools & pattern cutting mean we can provide an end-to-end solution.

Design & Engineering

Our design team have an innovative mindset, practical engineering skills and extensive knowledge of composites that we have used to successfully engineer products for a diverse range of applications.

Industries We Service

From olympic dinghies to leading aerospace components, our carbon fabrication experts can support virtually any performance-lead carbon fibre project.



MARINE



AUTOMOTIVE



INDUSTRIAL



AGRICULTURE



AEROSPACE



ARTS & FILM



SPORT



OTHER

Materials

C-Tech processes over 30,000sqm of Pre-preg fibre each year. We use the latest materials available to satisfy the customer's mechanical, chemical and heat requirements.



Pre-Preg

Fibres:

- Carbon
- S-Glass
- E-Glass
- Kevlar

Resin Systems:

- Epoxy
- Phenolic



Core Materials

Machined In-house

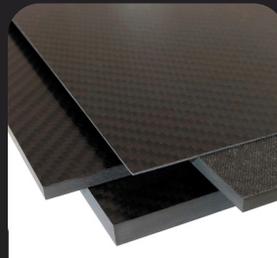
- Honeycomb
- Foam



Tooling Materials

Machined In-house

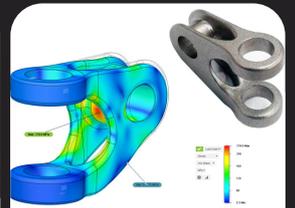
- Aluminium
- Carbon
- Tooling Board



Carbon Plate

Machined In-house

- Autoclave cured carbon fibre plate



Metals & Alloys

Machined, Printed, Integrated

- Titanium
- Aluminium
- Steel

Surface Finishes

Designed to make your composites corrosion resistant, UV protection and aesthetically pleasing, C-Tech provides finishes sustaining the long-term appearance of composite products.



Standard

Unidirectional or Cloth Finish

Glossy, unidirectional (spiral wound), cloth (woven or twill weave) effect.



Clearcoat

Unidirectional or Cloth Finish

Smooth, clear and glossy cloth or uni finish.



Sanded

Unidirectional or Cloth Finish

Sanded finish ready for painting or gluing, cloth or uni option.



Peel-ply

Unidirectional or Cloth Finish

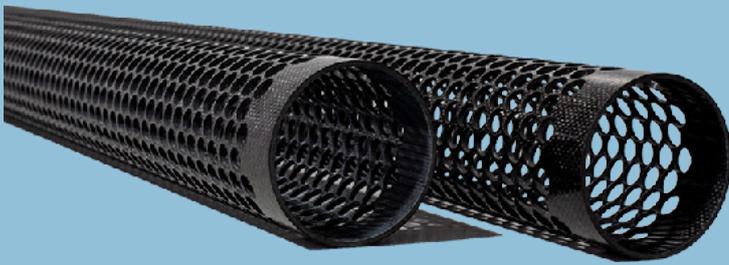
Textured finish designed as a gluing surface. It can be used inside tubes to create a gluing surface in areas that are hard to sand. This finish also provides a good grip on tubes either cloth or uni.



Painted

Unidirectional or Cloth Finish

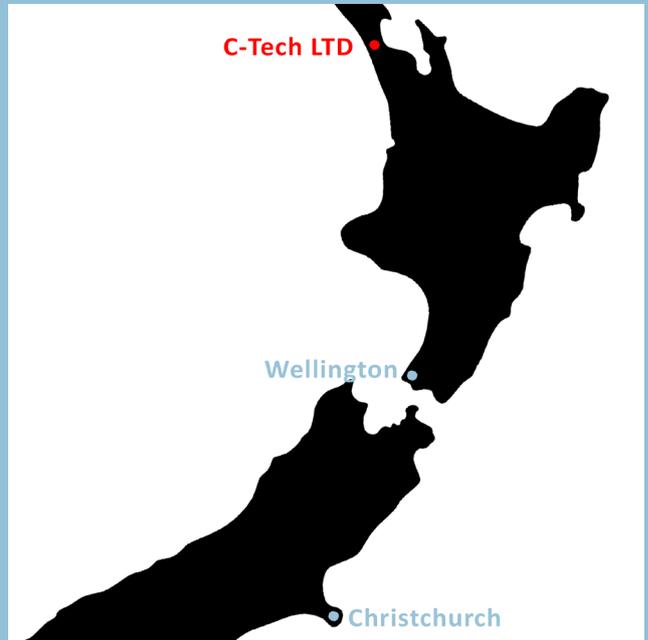
Sanded and painted, giving a high gloss and the best UV protective coating and a high quality finish. We can offer any colour that is commercially available for spray painting.



We design and manufacture world-class carbon fibre tubes for a huge range of uses.



Our Locations



Trusted by 1000+ companies around the world to supply premium carbon fiber solutions.



GLOBAL



CEO

Alex Vallings

“Ginge” has been a key innovative figure in the history of New Zealand’s skiff sailing development and is well known by those at the top of international sailing. His strong knowledge of material properties and drive to innovate led to the development of C-Tech’s reputation as a company that manufactures superior, high-quality composite products.



CIO

Lyn Holland

Lyn has been with C-Tech since 2001 when she merged her own software company with C-Tech. She is a keen sailor and has a background in software development, librarianship and administration systems. C-Tech is heavy on data and details, Lyn keeps C-Tech’s data management up-to-date with the rapidly evolving IT landscape.



COO

Chris Kitchen

Chris has a background in mechanical engineering, marketing and business management. Prior to joining C-Tech in 2014, Chris spent 10 years building Weta Marine with his father from a garage project to a successful international business that has manufactured and sold over 1,000 composite sailing boats around the world.



CTO | riley.dean@c-tech.co.nz

Riley Dean

Riley joined C-Tech in 2021 after working in multiple America’s Cup campaigns with Oracle and American Magic. He brings a wealth of experience and passion to our design team. Riley has also been heavily involved in the development and design of the Bieker Moth.

SALES



Batten Sales | alastair.campbell@c-tech.co.nz

Alastair Campbell

Alastair joined C-Tech in 2016. He is a keen sailor and brings industry experience and sailing miles to the batten sales team. Al is always keen to take on a challenge and push what is possible.



Mast Sales | tim.willetts@c-tech.co.nz

Tim Willetts

Tim has over 30 years’ experience specialising in composite masts. Along with his knowledge, he brings to C-Tech innovation and passion to deliver the best solution to customers.



Tube Sales | sam.cray@c-tech.co.nz

Sam Cray

Sam joined C-Tech in 2023, having grown up in Auckland and lived in the UK for 4 years, working for Cyclops Marine, developing digital load sensors. With an experienced background in mechanical engineering.

SPAIN



General Manager | Alberto.Soler@c-techcomposites.com

Alberto Soler

Alberto grew up near the C-Tech Spain facility in Castellón, Spain. After studying engineering at Southampton University, he has held engineering, technical, and management roles at Future Fibres, Persico Marine, Longitude Cero, 3D Tech, and the INEOS Britannia.

LOGISTICS



Logistics | jim.fitzsimons@c-tech.co.nz

Jim Fitzsimons

Jim has been with C-Tech for over 15 years and is an expert in shipping long, slender fragile packages from NZ to the world within tight timelines. Prior to C-Tech Jim was a technical sales engineer at Airtech supplying composite equipment to the European aerospace industry.