

DELTA

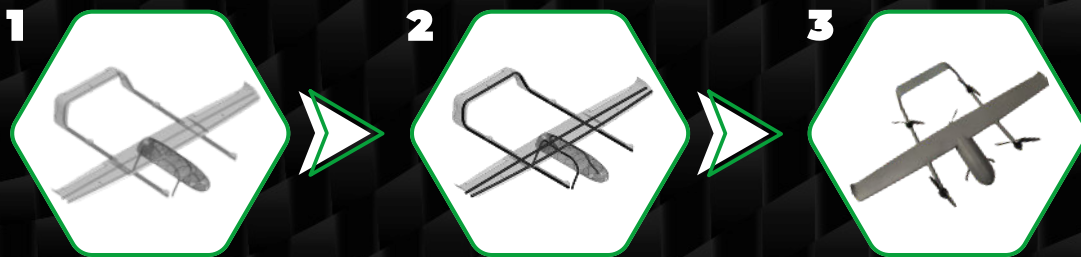
REINFORCE 3D



The 1st **SOLUTION**
for internal reinforcement

CFIP is the first post-process technology able to drastically improve the **mechanical and lightweighting performance** of 3D printed parts by reinforcing them with continuous fibers.

It is based on **injecting the continuous fibers simultaneously with liquid resin** inside tubular cavities within the part. When **the part is cured**, the solidified resin works as a mechanical interface between the fibers and the rest of the part.



1 Dron VTOL by FFF

2 FFF + CFIP

3 Dron VTOL FFF reinforced with CFIP

Sectors where we are building a new way of mechanical performance



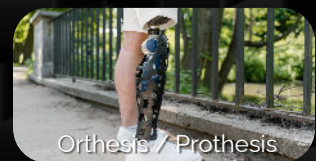
Automotive



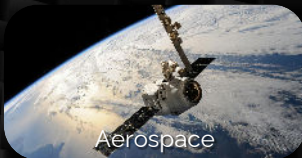
Sporting Goods



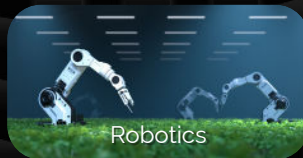
UAV's



Orthesis / Prothesis



Aerospace



Robotics



Civil Engineering



Motor sport / racing



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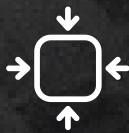
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DELTA SYSTEM

- 1 HMI**
 - 17" full HD capacitive touch screen
 - Intuitive and user-friendly interface
 - Real-time monitoring of process parameters
 - Recipes management
- 2 Control and power electronics**
 - Industrial-grade components
 - Integrated safety circuit
 - Ethernet connection for remote assistance
 - Maximum reliability
- 3 Resin impulsion system**
 - Accurate flow and pressure control
 - Automatic cleaning mode
 - Compatible with thermoset, thermoplastic and bio-sourced resins
- 4 Fiber storage**
 - Clean environment
 - Up to 3 fiber bobbins
 - Fiber types: carbon, aramid, glass, others
- 5 Injector arm**
 - Total positioning freedom
 - Self-supported arm for maximum ergonomics
 - Suitable for a robot arm to maximize automation
 - Easy coupling to different parts' geometry, size, and materials
- 6 Injector**
 - Aerospace-grade fiber fraction in the cavity, up to 60%
 - Flexible system for different cavity diameters
 - Engineered to minimize porosity
 - Automated fiber cutting system



Compact



Control



Flexible/Adaptable

OUR 360° SOLUTION:



SOFTWARE:

Design Checker



SUPPLIES:

Fibers & Resins



SERVICES:

Consultancy

Interested in a DEMO? *Let's talk!*



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