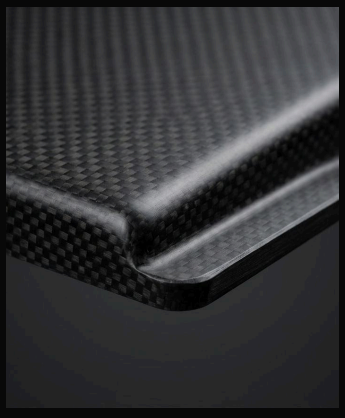
YARA
COMPOSITES GROUP

Composite Components

Product Catalogue 2026

Technical catalogue of vacuum-infused composite components for electric vehicles, premium cars, drones, robotics and motorcycles — built to customer drawings and requirements.






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ABOUT US

Composite components, engineered and built to your drawing.

Yara Composites Group manufactures carbon-fibre and composite components for demanding applications. Parts are produced by vacuum infusion and finished to the specification agreed with each customer.



Founded
2026

Production area
1000 M²

Team
> 100

Products

Body panels, housings, aerodynamic parts, structural elements and protective covers across five product directions.

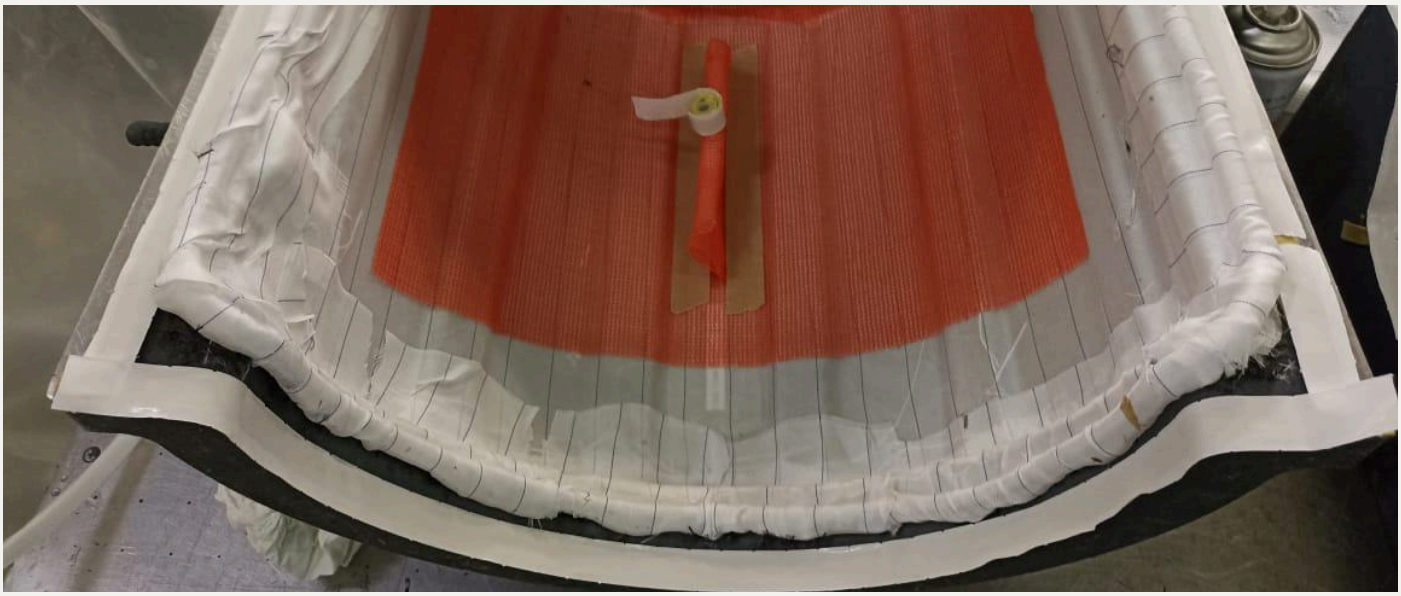
Engineering

Every component is specified by function: geometry, mass, interfaces, surface and customer requirements.

Production

Vacuum infusion, tooling and finishing organised around your drawing and technical requirements.

Technology follows the part — not the other way around.



What we can make, and how

Vacuum infusion

Resin infused under vacuum through dry reinforcement in one-sided tooling.

Tooling & moulds

Moulds and patterns for each part geometry.

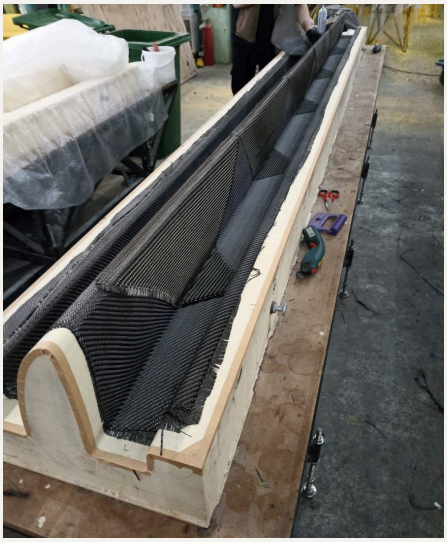
Machining & trimming

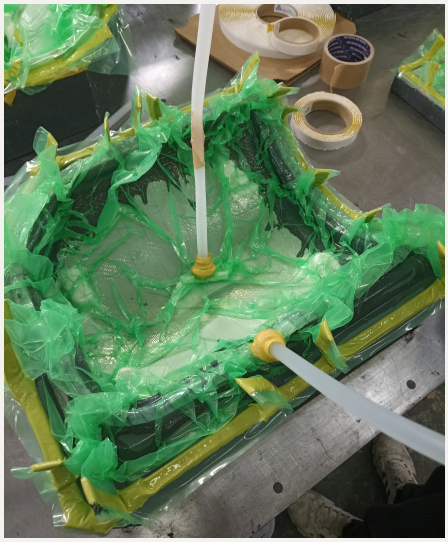
Cutting, drilling and trimming of cured parts.

Finishing & assembly

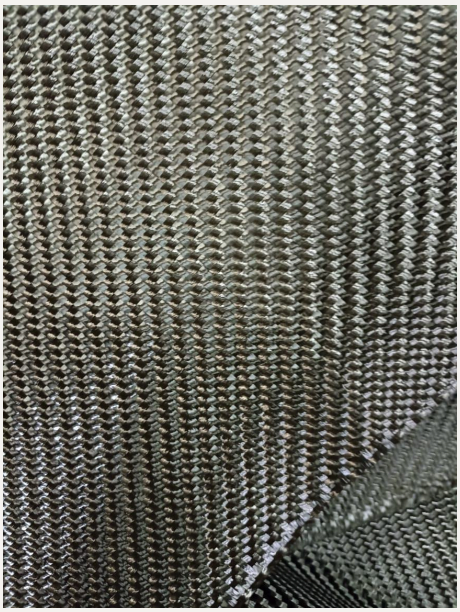
Surface finishing, inserts and sub-assembly.

One principle: process, material system and finishing are chosen from geometry, function and customer requirements.









MATERIALS

A material system defined per part.

Carbon-fibre reinforcement and infusion resin are selected for each component from its function, loads and surface requirements. Values below are structure only — data is added when confirmed.

REINFORCEMENT	Carbon-fibre fabric; weave and areal weight per part
MATRIX	Infusion resin system selected per application
CORE / INSERTS	Foam or honeycomb cores, metal inserts where required
CONSUMABLES	Release layer, flow medium, vacuum bag, sealant tape
SURFACE	Visible carbon, clear-coat or painted
PROCESS	Vacuum infusion

01
Start from function

02
Match process to geometry

03
Specify per part

04
Verify against the drawing



01 Electric Vehicles

Lighter structures for electric platforms

Composite panels, covers and enclosures that reduce mass on electric vehicle platforms. Each part is defined by geometry, interfaces and your programme requirements — thermal, sealing or fire needs are set by the customer specification, not assumed.

DEFINED PER PART

- Component type
- Overall dimensions
- Nominal thickness
- Part mass
- Material system
- Surface finish

REPRESENTATIVE COMPONENTS

01 **Lightweight body panels**
Exterior skins and closures with controlled surface quality.

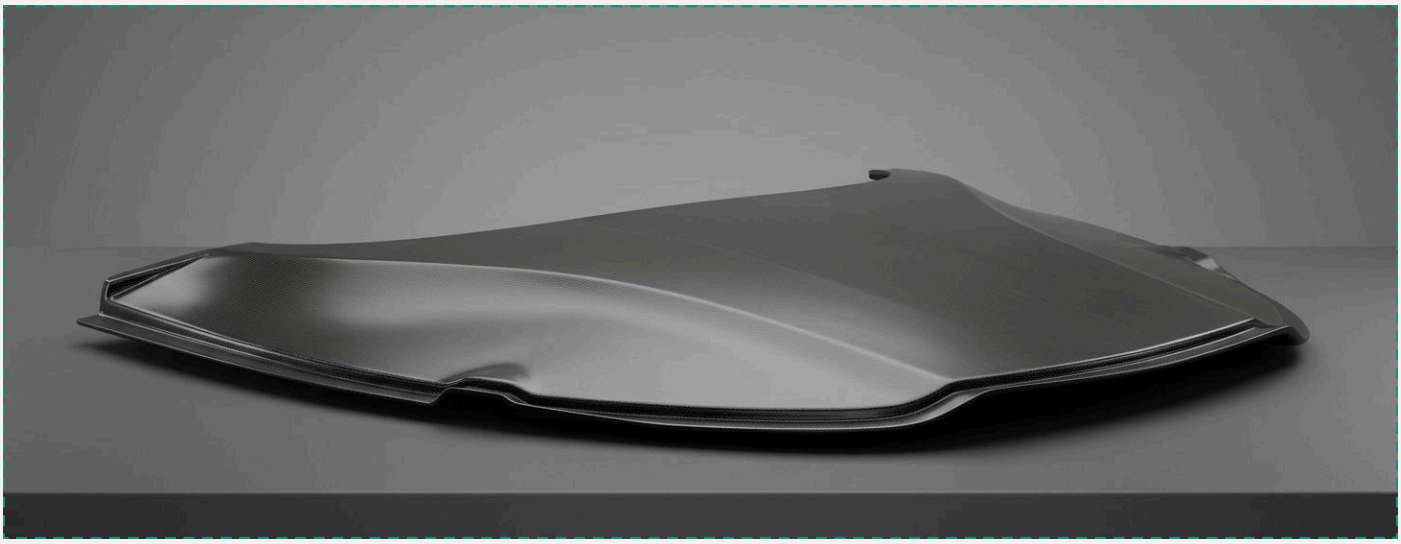
02 **Battery compartment covers**
Covers and shrouds built to customer interfaces.

03 **Underbody panels**
Large-format protective and aerodynamic panels.

04 **Charging-port covers & trim**
Small precision covers with tight fit requirements.

05 **Aerodynamic components**
Spoilers, diffusers and active-aero elements.

06 **Brackets & structural parts**
Load-path parts, once mechanical data is confirmed.



EXTERIOR PANEL

Lightweight body panel

Exterior skin or closure for electric vehicle bodies.

COMPONENT TYPE	Exterior skin / closure
OVERALL DIMENSIONS	Per customer drawing
NOMINAL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
MATERIAL SYSTEM	Carbon fabric + infusion resin
SURFACE FINISH	Visible carbon or painted
MOUNTING INTERFACES	Per customer drawing
TOLERANCES	Per customer drawing
PROCESS	Vacuum infusion

HOUSING / COVER

Battery compartment cover

Cover or shroud over a battery compartment.

COMPONENT TYPE	Cover / shroud
OVERALL DIMENSIONS	Per customer drawing
WALL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
CONSTRUCTION	Single skin or sandwich
MOUNTING POINTS	Per customer drawing
SEALING INTERFACE	Per customer drawing
THERMAL / FIRE NEEDS	Defined by customer; none claimed
MATERIAL SYSTEM	Carbon fabric + infusion resin
PROCESS	Vacuum infusion

Your component not listed? We manufacture to customer drawings and technical requirements.

SEND A DRAWING → P.23



02 Premium Cars

Visible carbon, engineered underneath

Exterior and interior components where surface quality and fit matter as much as mass. Weave direction on visible carbon is specified per part, so the pattern follows the shape of the component.

DEFINED PER PART

- Component type
- Overall dimensions
- Nominal thickness
- Part mass
- Surface class
- Weave direction

REPRESENTATIVE COMPONENTS

01 **Aero kits & splitters**
Front and rear aerodynamic elements.

02 **Hoods & fenders**
Large outer skins with high surface demands.

03 **Roof panels**
Large-format carbon roofs.

04 **Mirror housings**
Small parts with complex curvature.

05 **Diffusers & spoilers**
Aerodynamic add-ons built to CAD.

06 **Interior panels & trim**
Trim parts with defined finish and fixings.



EXTERIOR PANEL

Bonnet (hood) outer skin

Visible-carbon or paint-ready outer skin.

COMPONENT TYPE	Outer skin
OVERALL DIMENSIONS	Per customer drawing
NOMINAL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
SURFACE CLASS	Visible carbon / paint-ready
WEAVE DIRECTION	Specified per part
HINGE & LATCH INTERFACES	Per customer drawing
TOLERANCES	Per customer drawing
PROCESS	Vacuum infusion

AERODYNAMIC ELEMENT

Rear diffuser

Underbody or rear aerodynamic element.

COMPONENT TYPE	Diffuser
GEOMETRY	Per customer CAD
NOMINAL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
HEAT EXPOSURE	Defined by customer
MOUNTING INTERFACES	Per customer drawing
SURFACE FINISH	Visible carbon or satin
MATERIAL SYSTEM	Carbon fabric + infusion resin
PROCESS	Vacuum infusion

Your component not listed? We manufacture to customer drawings and technical requirements.

SEND A DRAWING → P.23



03 Drones

Light, stiff and made to fly

Airframe and payload components for unmanned systems: shells, arms, bays and guards. Structural parts are defined by layup, interfaces and the mechanical requirements the customer provides.

DEFINED PER PART

- Component type
- Overall dimensions
- Wall thickness
- Part mass
- Construction
- Mounting interfaces

REPRESENTATIVE COMPONENTS

01 **Fuselage shells**
Covers and bodies built to your CAD.

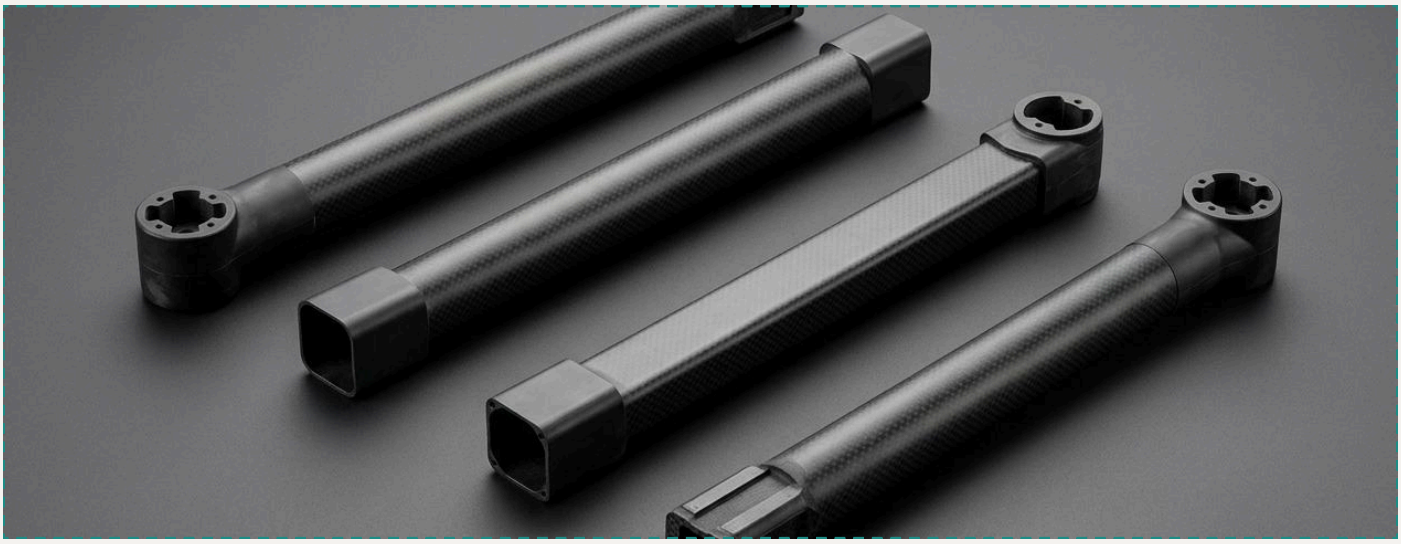
02 **Arms**
Tubular or moulded arm structures.

03 **Landing gear**
Skids and legs, load case from customer.

04 **Propeller guards**
Light protective guards.

05 **Battery bays & radomes**
Bays, hatches and radomes.

06 **Gimbal & payload parts**
Mounts and housings for payloads.



HOUSING

Fuselage shell

Upper or lower shell of an unmanned aircraft body.

COMPONENT TYPE	Shell / cover
OVERALL DIMENSIONS	Per customer drawing
WALL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
CONSTRUCTION	Single skin or sandwich
MOUNTING INTERFACES	Per customer drawing
SURFACE FINISH	Visible carbon or painted
MATERIAL SYSTEM	Carbon fabric + infusion resin
PROCESS	Vacuum infusion

STRUCTURAL ELEMENT

Arm

Load-carrying arm or boom.

COMPONENT TYPE	Arm / boom
GEOMETRY & SECTION	Per customer drawing
PART MASS	Part-specific, kg
LAMINATE ARCHITECTURE	Defined per part
FIBRE ORIENTATION	Defined per part
STIFFNESS REQUIREMENT	Defined by customer
MOUNTING INTERFACES	Per customer drawing
TOLERANCES	Per customer drawing
PROCESS	Vacuum infusion

Your component not listed? We manufacture to customer drawings and technical requirements.

SEND A DRAWING → P.23



04 Robotics

Covers, housings and load-bearing links

Composite parts for robotic systems — from outer panels and protective housings to plates and links. Function decides the specification: a housing and a load-bearing link need different data.

DEFINED PER PART

- Component type
- Overall dimensions
- Wall thickness
- Part mass
- Construction
- Mounting points

REPRESENTATIVE COMPONENTS

01 **Robot body panels**
Outer panels and fairings.

02 **Protective housings**
Housings for electronics and drives.

03 **Chassis plates**
Flat and shaped structural plates.

04 **Arm links & covers**
Light links and covers for manipulators.

05 **Equipment enclosures**
Enclosures built to customer interfaces.

06 **Brackets & mounts**
Custom composite brackets.



HOUSING

Protective housing

Housing or enclosure for electronics and drives.

COMPONENT TYPE	Housing / enclosure
OVERALL DIMENSIONS	Per customer drawing
WALL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
CONSTRUCTION	Single skin or sandwich
MOUNTING POINTS	Per customer drawing
SPECIAL REQUIREMENTS	Defined by customer
SURFACE FINISH	Visible carbon or painted
PROCESS	Vacuum infusion

STRUCTURAL ELEMENT

Structural plate / link

Load-bearing plate or link.

COMPONENT TYPE	Plate / link
GEOMETRY	Per customer drawing
PART MASS	Part-specific, kg
LAMINATE ARCHITECTURE	Defined per part
FIBRE ORIENTATION	Defined per part
LOAD CASE	Defined by customer
STIFFNESS REQUIREMENT	Defined by customer
TOLERANCES	Per customer drawing
PROCESS	Vacuum infusion

Your component not listed? We manufacture to customer drawings and technical requirements.

SEND A DRAWING → P.23



05 Motorcycles

Shaped to the machine

Individual body parts, not whole-bike pictures: fairings, tail sections, covers and protective elements. Geometry comes from your CAD or from a sample part, and mounting points are matched to the model.

DEFINED PER PART

- Component type
- Overall dimensions
- Nominal thickness
- Part mass
- Surface finish
- Material system

REPRESENTATIVE COMPONENTS

01 **Full fairing sets**
Complete sets for a model.

02 **Front fairings & masks**
Large panels with complex curvature.

03 **Tail sections**
Seat units and rear bodywork.

04 **Engine covers**
Covers and decorative panels.

05 **Skid plates & frame sliders**
Protective parts, level set by customer.

06 **Top cases & panniers**
Luggage components.







BODY PANEL

Front fairing

Front fairing or mask for a specific model.

COMPONENT TYPE	Fairing / mask
OVERALL DIMENSIONS	Per customer drawing
NOMINAL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
SURFACE FINISH	Visible carbon or painted
MATERIAL SYSTEM	Carbon fabric + infusion resin
MOUNTING INTERFACES	Per customer drawing
GEOMETRY SOURCE	Model CAD or sample part
PROCESS	Vacuum infusion

PROTECTIVE ELEMENT

Skid plate / frame slider

Protective cover for frame or engine area.

COMPONENT TYPE	Protective cover
GEOMETRY	Per customer drawing
NOMINAL THICKNESS	Part-specific, mm
PART MASS	Part-specific, kg
MATERIAL SYSTEM	Carbon fabric + infusion resin
MOUNTING INTERFACES	Per customer drawing
PROTECTION LEVEL	Defined by customer; none claimed
SURFACE FINISH	Part-specific
PROCESS	Vacuum infusion

Your component not listed? We manufacture to customer drawings and technical requirements.

SEND A DRAWING → P.23

CUSTOM MANUFACTURING

Custom Composite Components

Manufactured to Customer Specifications

Send a drawing or a technical specification. We select the process, material system and finishing for the part, and agree the data that will be checked — geometry, mass, interfaces and surface.



WHAT YOU PROVIDE

01 **3D CAD or drawing**
Geometry, datums and interfaces.

02 **Mounting & interfaces**
Fixings, mating parts, sealing.

03 **Mass / stiffness targets**
If the part carries load.

04 **Surface & appearance**
Visible carbon, paint or satin.

05 **Environment & duty**
Temperature, media, loads.

06 **Quantity & timing**
Prototype and repeat needs.

01
Drawing & requirements

02
Feasibility & process choice

03
Tooling & infusion

04
Finishing & delivery

Reference parts



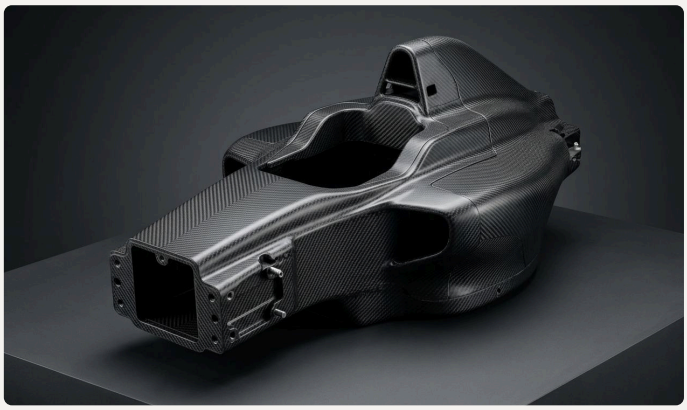
Carbon fairing parts



Carbon fairing parts



Moulded parts on tray



Fairing component



Fairing component



Fairing component

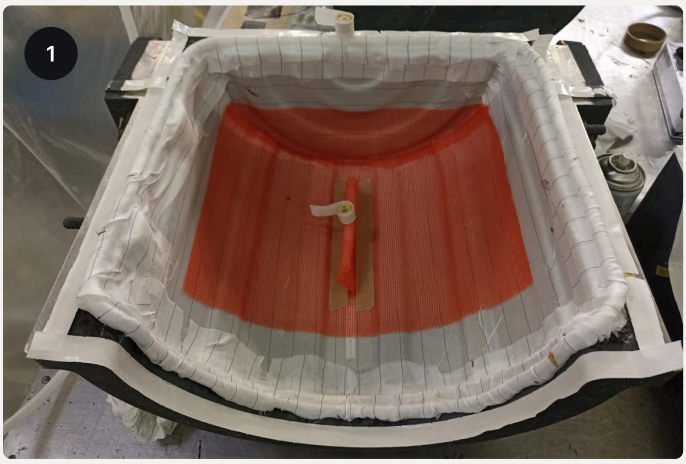
Your part could be next. Send a drawing or sample.

REQUEST A QUOTE → P.23

CORE TECHNOLOGY

Vacuum Infusion

Dry carbon reinforcement is laid in a one-sided mould, sealed under a vacuum bag, and resin is drawn through the fabric by vacuum.



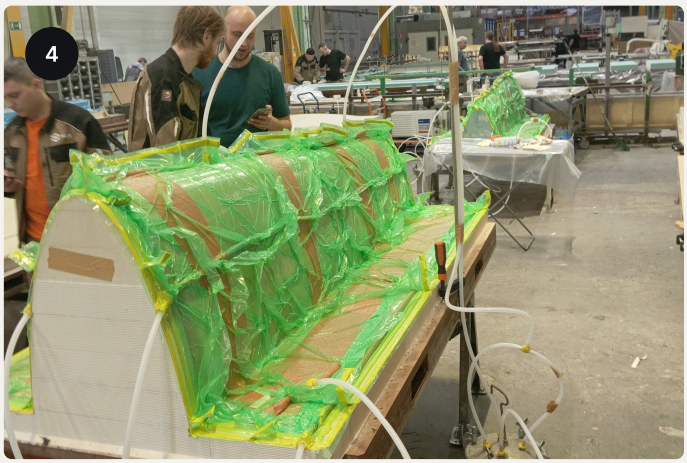
Tooling prepared for infusion



Vacuum bag and resin lines



Resin preparation



Infusion of a large part

01 Mould preparation

02 Reinforcement layup

03 Vacuum bag & lines

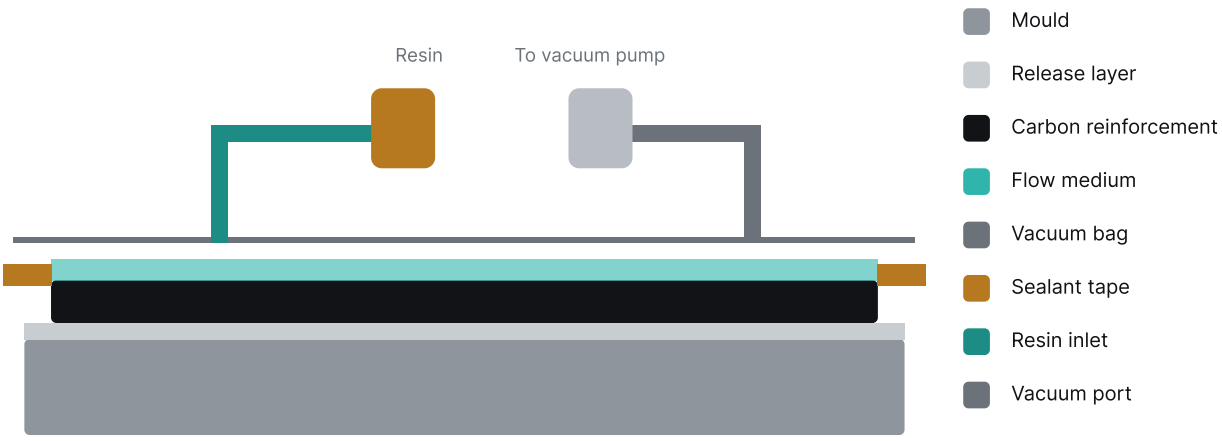
04 Resin infusion

05 Cure

06 Demould & finish



SECTION VIEW (SCHEMATIC)



Vacuum draws resin through the dry fabric

BEST SUITED TO	Shells, panels and housings made on one-sided tooling
RESULT DEPENDS ON	Fabric, resin, flow strategy, tooling and cure cycle
NOT IMPLIED	No strength, mass or porosity value follows from the process alone

See how your part would be made. Send a drawing.

RFQ → P.23

FROM MODEL TO PART

Process in six steps

01 **Master model**

CNC-machined pattern defines the part shape.

02 **Mould**

Tooling surface prepared and released.

03 **Reinforcement layup**

Carbon fabric placed to the part design.

04 **Vacuum bag & infusion**

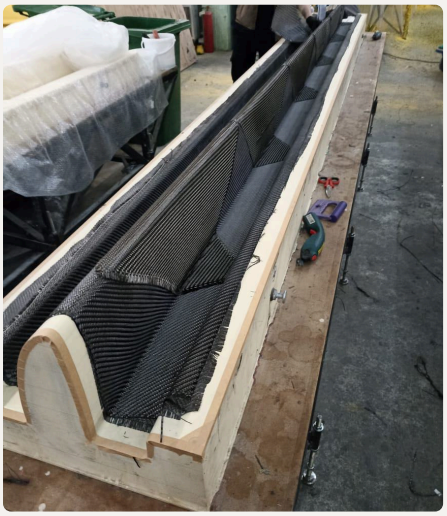
Resin drawn through the fabric under vacuum.

05 **Cure**

Resin cured; method set per resin system.

06 **Finishing & inspection**

Demould, trim, finish and check against drawing.

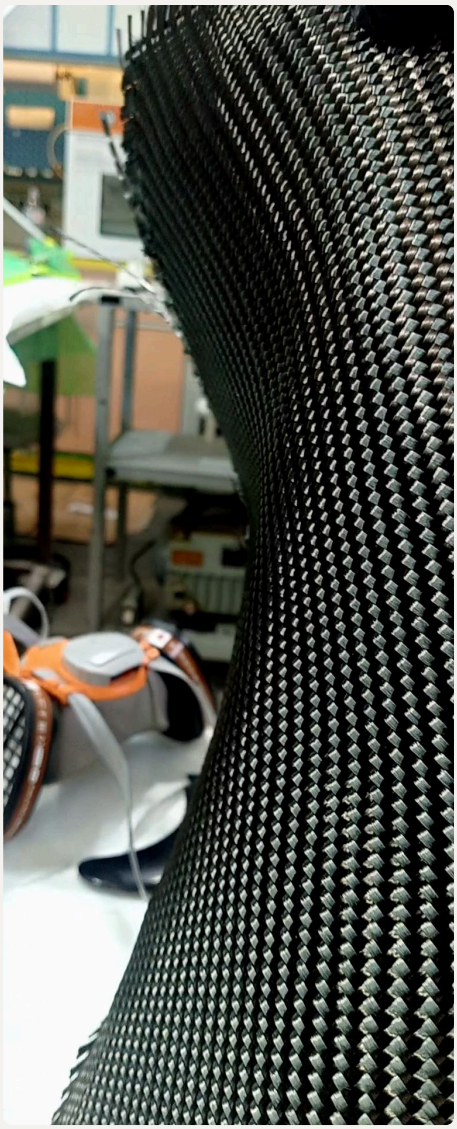






Technical capabilities at a glance

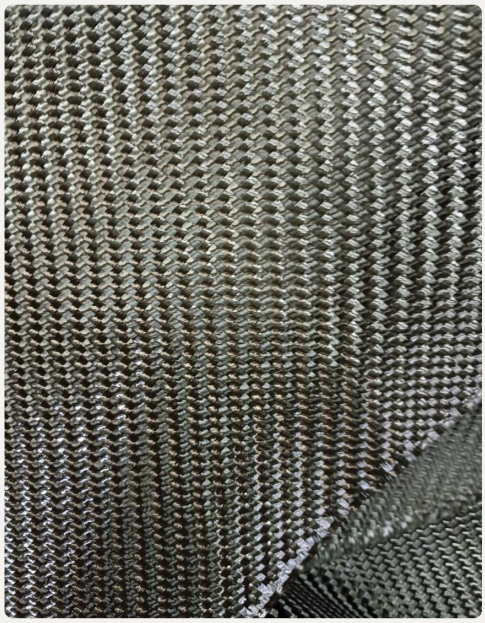
Vacuum infusion	✓
Mould & tooling manufacture	✓
CNC machining of patterns	✓
Oven / autoclave curing	✓
Trimming & drilling	✓
Painting & clear-coat	✓
Assembly: inserts, bonding	✓
Inspection & measurement	✓
Maximum part size	8000×2000MM
Production capacity	~ 1000 M²



Need something we have not listed? Describe the part — we will say plainly what is possible.

QUALITY

Quality starts with a clear requirement.



For each part we agree what will be checked, and against which reference, before production starts. No certification or standard is claimed unless it is confirmed.

GEOMETRY & FIT	Checked against customer drawing / CAD; method and equipment to confirm
SURFACE APPEARANCE	Visual check against an agreed sample or standard
MASS	Weighed against the agreed target
INTERFACES	Fit check with gauge or mating part
DOCUMENTATION	Inspection record per batch
CERTIFICATION	Quality system built in line with ISO 9001, AS9100 (aerospace/UAV) and IATF 16949 (automotive). Certification in progress, not yet claimed.

We agree what is checked — before production starts.

WORKING WITH US

From drawing to delivered part

CORE MODEL

Build to print

You provide drawings and requirements; we manufacture to them.

Co-engineering

Joint review of the design for manufacture.

Prototype to series

Route from first article to repeat orders.

WHAT TO SEND FOR A QUOTE

01 3D CAD or drawing

02 Interfaces and mounting

03 Mass / stiffness targets

04 Surface and appearance

05 Environment and loads

06 Quantity and timing

Contact

E-MAIL yaracomposites@proton.me

PHONE / MESSENGER +84763323080

ADDRESS Tan Thuan Industrial park, HCMC

WEBSITE https://yaracomposites.com



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yaracomposites.com · yaracomposites@proton.me · +84763323080