



trusted to deliver™

Industry-leading Composites

Customised solutions
for all your needs





Advanced composites

Highly viable engineering solutions delivering strength and durability

Babcock delivers industry-leading prepreg and wet resin thermoset systems and thermoplastic composite materials to meet our customers' challenges - however extreme the conditions they operate in.

We produce lightweight, robust, protective and high quality finished composites for use across many sectors including the emergency services, defence & security, marine, industrial, agriculture, public transport, education, medical and construction.

Our vehicle engineering business is an established specialist in vehicle conversion and integration, and we have a broad range of capabilities within our secure facilities. Our dedicated Composite Division, based in Walsall, offers the cutting-edge technology and specialist skills required to custom-design and manufacture composite components for a wide range of uses.

Customised vehicle conversions & parts

Our quality composite solutions help our customers to meet their operational challenges. Our products and designs have a broad range of benefits including weight-saving, strength, impact resistance and covert applications.

Working closely with our customers, we take the time to fully understand their requirements and share our experience. For example we have developed specialist coach-built vehicle bodies such as territorial support group vehicles, box body ambulances,

horseboxes and underwater search units as we know the detrimental impact of regular exposure to fluids and water on traditional style bodies.

We have worked with customers developing composite specialist bodies for riot protection and public order vehicles. The high impact resistance and weight saving characteristics offer very real benefits.

Vehicles that also benefit from the weight-saving elements of our composite body are cash-in-transit (CIT) vehicles and mobile banks and offices, which are built on a lighter chassis whilst delivering the high level of security, safety and operational delivery required.



We recognise the value of our specialist composite capability to other sectors and have developed parts for high end automobiles, motorsport vehicles and other specialist equipment. This includes track day bumper protection system, air ducts, bonnets and spoiler kits.

Compliant, high quality products

Innovation starts with the material and our quality lightweight composite solution offers strength and weight-saving benefits over more traditional materials. It also provides longevity as the material is non-corrosive and easy to repair - key features enjoyed by owners of our 'Myriad' Composite European Community Whole Vehicle Type Approval (ECWVTA) and BS EN 1789:2007 + A1: 2010 compliant box body ambulances.

All our composite components and tools have superior lamination and finish as they are built within our calibrated 400 C/20 bar autoclave which is used to cure the composite components under heat and pressure for professional quality.

Our large 8m x 4m and 6m x 3.5m curing ovens accurately control the temperature for producing large single piece components such as:

- Floor panels
- Roof panels
- Associated vehicle panels, boot/trunk lids, bumpers/fenders, skirts
- Bulkheads and structural parts

Custom-made fibreglass

We manufacture custom-made glass reinforced plastic products for many different industries. Fibreglass is a lightweight and robust material with good thermal insulation properties – our products have various fire ratings.

Some of our fibreglass components are used in:

- Air dams and deflectors
- Wheel arch and styling kits
- Non-corrosive linings
- Interior trim panels and linings

All our products are produced to the highest standard and in accordance with industry standards and processes including BS EN ISO9001: 2015, TS16949: 2009 and VCA Conformity of Production.

Whole-life support

We build long-term partnerships with our customers, delivering a first class service from your initial enquiry through to the whole-life support. We work closely with you to make sure that your customised requirements are met to the highest quality and within an agreed timeframe and budget.

Our in-house design team can assist you in a variety of ways, from modification of an existing component to solve compatibility issues through to the design of tooling and structures to support a composite product.



If you have a requirement which we can provide assistance for, please contact:

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Formerly S MacNeillie & Son, our vehicle engineering business brings together a 100-year heritage of vehicle craftsmanship and technical excellence with our proven whole-life asset management capability and best practice.