



Hovercraft Ducts

The carbon fibre composite 4.5m ducts form a core element of Griffon Hoverworks' BHT130 hovercraft propulsion system.

Griffon's BHT130 hovercraft model has heavy lift capability and operates in extreme conditions, which resulted in highly stringent component specifications. We built the part components and assembled the ducts on a jig with extremely tight tolerances.

The composite materials used to ensure such high performance characteristics were manufactured using an abrasive resistant surfacing film, carbon fibre-reinforcement around the structural core, with epoxy resin. This was processed using a vacuum bagging technique and with a final cure in our large mobile oven unit.

As a result of the composite materials and production processes applied to manufacture the duct assemblies, we can ensure consistent production quality and high performance in challenging operational conditions.



Technical Specification

MATERIALS

Reinforcement: Sandwich Structural Foam Core with Carbon reinforcement fibre

Resin System: Epoxy

All materials resistant to salt corrosion and in-service fluids and contaminants.

Dimensions 4.5m diameter ducts

Weight 571.71 kg

Operational Temperature: -20°C to 70 °C

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