



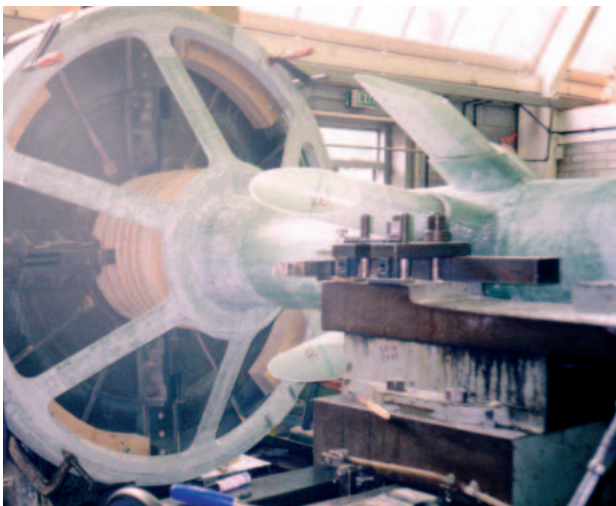
Nuclear Submarine Propulsor Tailcone Assembly

The composite material structure illustrated is the main strength member of the tailcone assembly which forms part of a submarine propulsor unit.

The components are manufactured individually using bespoke tooling and machined to precise drawing dimensions.

As shown in the picture below the basering is mounted on a 2 metre diameter faceplate and the remaining components aligned, fitted and bonded into position. The final machining operation of the complete assembly is then undertaken.

The tailcone structure is the main strength member supporting the syntactic foam moulding which radiates from the central tube to the conical exterior. This maintenance free structure has been designed and manufactured to meet the most demanding environmental specification.



Technical Specification

MATERIALS

Reinforcement Woven Cloth

Resin System Proprietary

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

Dimensions 2000mm Dia x 3000mm Long

Pressure (Hydrostatic) 70bar

Operational Temperature -30°C to +60°C

Storage Temperature -40°C to +70°C