



ROYAL NAVY
ASTUTE CLASS
SUBMARINE

Casting technology for **ships and submarines**

William Cook Cast Products is a trusted manufacturer of high-integrity castings in specialist alloys and superalloys for ships and submarines.

Working with prime contractors and subsystem suppliers, William Cook has supported projects for the Royal Navy, Royal Canadian and Spanish navies.

ACCREDITATIONS AND APPROVALS

- ✓ ISO9001
- ✓ AQAP2110 compliant
- ✓ Cyber Essentials
- ✓ Fit4Nuclear
- ✓ UK MOD Q1(N)
- ✓ Lloyd's Register of Shipping
- ✓ American Bureau of Shipping
- ✓ JOSCAR



AOD SECONDARY REFINEMENT

SPECIALIST ALLOYS AND SUPERALLOYS

Advanced manufacturing and metallurgy.

William Cook Cast Products can cast single components weighing up to 12,000kg, many of which are then finish machined and fabricated into larger assemblies.

Argon Oxygen Decarburisation (AOD) secondary refinement is used to achieve specialist steel and nickel alloys and superalloys (including duplex, super-duplex, Inconel and monel grades).

Components are heat treated to achieve superior mechanical properties.

UNCOMPROMISING INSPECTION AND CONTROL

Integrity and assurance.

Chemical composition and mechanical properties of alloys and superalloys are confirmed in William Cook's dedicated testing laboratory.

The integrity of safety-critical components is confirmed by Non-Destructive Testing (NDT), including magnetic particle or dye penetrant inspection, ultrasonics, and digital linear accelerator radiography.

CHEMICAL ANALYSIS BY MASS SPECTROMETER

4MEV LINEAR ACCELERATOR DIGITAL RADIOGRAPHY



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EMERGENCY CORD