



ROYAL NAVY ASTUTE
CLASS SUBMARINE

Nuclear

William Cook Cast Products manufactures ultra high-integrity components for the nuclear sector, including high-specification cast steel for civil and naval markets, from its headquarters in the north of England.

William Cook's state-of-the art facilities combined with nearly two centuries of steel casting expertise guarantee the integrity of parts for nuclear environments.

ACCREDITATIONS AND APPROVALS

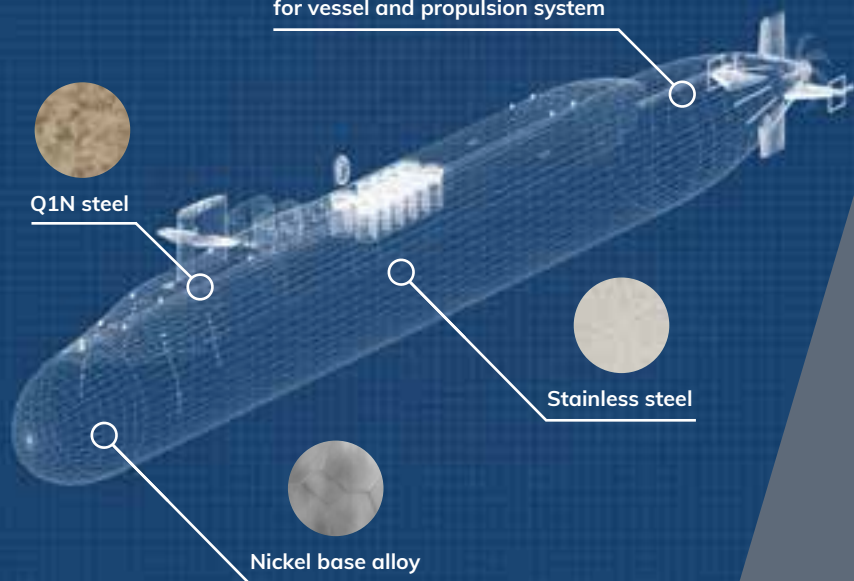
- ✓ ISO 9001
- ✓ ISO 14001
- ✓ ISO 45001
- ✓ ISO 19443
- ✓ Lloyds Register of Shipping
- ✓ EN10340 Construction Product Regulations
- ✓ EN15085 EU Pressure Equipment Directive
- ✓ American Bureau of Shipping
- ✓ DNV GL offshore standards
- ✓ NORSOK M650 4A 5A 6A (sand and investment castings)
- ✓ JOSCAR
- ✓ Fit4Nuclear
- ✓ ISO 17025 (in progress)



AMRC
ADVANCED MANUFACTURING
RESEARCH CENTRE



**Cast steel submarine components
for vessel and propulsion system**



Naval

High-integrity castings in specialist alloys for nuclear submarines.

- Cast steel components for Astute and Dreadnaught class submarines
- Multiple complex cast parts for hull and propulsion systems
- Approved supplier of QN1 steel grade for naval applications
- Supply of castings in Ni base alloys and stainless steel grades

Capabilities

William Cook Cast Products' multi-million pound in-house facilities combine advanced machinery, metallurgical excellence and technical sophistication.

- Non-destructive testing including new onsite radiography facility
- State-of-the-art metallurgical laboratory working towards ISO 17025
- In-house mechanical testing
- Secondary refining AOD converter
- Heat treatment facilities with water and polymer quench
- In-house machining capabilities

Civil

Components and systems for applications where safety and reliability are critical.

- Castings in carbon and duplex steel for the Hinkley Point C water intake system
- Pump casings and valve bodies for European Pressurised Reactor (EPR) plants
- High-integrity stainless steel castings for long-term storage of nuclear waste
- William Cook Cast Products maintains rigorous quality standards, facilitating castings produced in line with ASME Sec III and RCC-M codes
- The company has recently achieved ISO 19443:2018 certification

