



SHEFFIELD
FORGEMASTERS

**Casting and Forging
Solutions for the
World's most
Complex Engineering
Challenges**



Civil Nuclear Capabilities



Civil Nuclear Capabilities

Since 1950 Sheffield Forgemasters has manufactured cast and forged nuclear components for multiple applications.

Included are components for fusion power and the advancement of Small Modular Reactors (SMRs).

In fact we were the first company to produce a forge-formed RPV head for use in an SMR.

We also provide advanced technical research and support services.

Key Capabilities

- Vertically integrated melt shop producing ultra-clean nuclear grade steel
- Ingots up to 300T produced onsite
- Innovative hollow ingot casting techniques
- 10,000T forge for components up to 300T
- Some of the world's most advanced 5-axis machining
- Leaders in the research of thick section electron beam welding for nuclear applications
- Advanced computer-aided design, simulation, modelling, metrology and analysis techniques



Ultra-Clean Steel Produced Onsite



World Class Machining Facilities

Applications

**Transition Cones | Pressuriser Shells | Reactor Pressure Vessels | Steam Generator Shells |
Tube Sheets | Pump Components | Nuclear Transport Casks | Pressurised Water Reactor (PWR)
Components | Turbines | Rotors | Seal Housings | Dome Inserts | Fusion Reactor Components**

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