

# Trusted to do the difficult things



## Capability Statement

# Our key differences



In order to meet the Mission Critical requirements of our customers, we ensure a responsive and fully integrated approach.

1. A vertically integrated manufacturing capability that provides support to the end-to-end product supply, providing a single point of contact for the supply of fully tested, high integrity castings and tight tolerance machining.
2. We are proud to have over 40 years of experience of supporting safety critical applications in Naval Defence programmes both within the UK and overseas, ensuring a full and detailed understanding of product specifications and associated documentation.
3. With our commitment to excellence, we take pride in completing extensive third party approvals to facilitate the supply of fully compliant and approved products; complemented by approved security and data protection procedures.
4. US naval defence contractors can be confident that Westley Group will protect their sensitive data and legal obligations, thanks to our compliance with ITAR, DFARS 252.204-7012 and NIST 800-171. We understand the critical importance of ITAR and cybersecurity compliance for our customers, ourselves, and the entire supply chain.

To provide the ultimate assurance of cybersecurity, we are applying for certification to CMMC Level 2. And whether customers prefer to work under a TAA, an MLA, or a DSP-5, we have the procedures, policies, and systems to handle their data with total compliance. An MLA has been designed between Westley Group and our US representative, Critical Material Solutions, to enable customers to send their drawings and specifications without delay\*. We can also work under a customer-specific agreement or license, to enable direct data transfer without restrictions.

5. Our proprietary HPLT casting process ensures ultra-high integrity castings, widely used by the UK MoD in critical Level 1 applications. Our expertise spans Copper and Nickel-based castings, including the development of a Copper Nickel alloy (Def Stan 02-824 Pt1) for Sub-Safe applications on UK SSN and SSBNs, and a 'no weld' Nickel Aluminium Bronze alloy (Def Stan 02-747 Pt 4) to address selective phase corrosion issues. We offer fully compliant certification covering UK and US specifications such as DStan, MIL Stds/NAVSEA, ASTM, and more.

# Our core capabilities

We offer customers a complete engineered solution based on our extensive, vertically integrated manufacturing capabilities.

## Manufacturing services

Full vertically integrated manufacturing capability to support material selection advice, design for manufacture services, reverse engineering capability, casting, forging, machining, assembly, test and documentation management. These capabilities are further supported using state-of-the-art risk reduction methods.

## Casting process

Proprietary manufacturing techniques and leading-edge front end technical capabilities, to ensure the supply of the highest integrity components..

## Pour capacity

Up to 33,000lbs and 20 furnace bodies to support the manufacture of over 400 alloys, with a core competence in Cu based Alloys, Ni based Alloys, Cast Iron and Special Steels. Our own test facilities support chemical and mechanical testing and various NDE processes, including a radiographic testing facility.

## Product forms

Capability to manufacture sand cast components, centrifugally cast products and forgings, offering a single source of supply for all your material requirements. Supported by supply chain management expertise to manage multi-form, machined, assembled and tested material packages.

## Casting simulation

In-house, bespoke castings simulation function to enable casting method appraisal and manufacturing risk reduction. We can accept customer CAD files to undertake initial design for manufacture [DFM] assessment and associated design optimisation.

## Machining capability

Two in-house, fully equipped machine shops with Multi-Axis CNC capability. CNC capability includes milling, turning, boring and drilling. Typical maximum turning diameter of 50mm x 300mm long and boring capability of up to 100mm diameter. Supported by CMM, Faro and conventional measurement capability.

## Skilled workforce

Our manufacturing is underpinned by a well-trained and highly skilled workforce; supported by a very successful apprenticeship programme to aid our business continuity planning.

## Supporting processes

Fully certified in-house heat treatment and welding facilities (MIG, TIG & ARC). In-house NDE services, including LPT, RT, PT, UT and more.

## Our key customers



Westley Group and its divisions have an unrivalled history of supporting the supply of mission critical components to the

Naval Defence, Oil & Gas, Power Generation, Pump & Valve, Mining and General Engineering markets.



**CURTISS-WRIGHT**



**NAVAL GROUP**

**THALES**

**BAE SYSTEMS**



### Babcock International



Westley Group have supplied us for many years with Def Stan components in copper based alloy grades. They have the ability to supply in various stages to suit our requirements, up to and including fully machined, pressure tested and certified ready for assembly.

### BAE Systems



The delivery of the equipment to schedule owes to the efforts of all involved at Westley Group, a true team effort. It was a pleasure to deal with Westley Group. Very impressed with the workmanship on show, great to see that there remain some great British manufacturers.

### Wartsila



Westley Group are a trusted partner and an important part of our worldwide naval supply chain. They supply our various facilities in the UK and worldwide, and are regularly trusted to send direct to our end clients, often on very short lead times.

## The UK manufacturer trusted the world over



We are a group of world-class foundries and machine shops. Our heritage has created a large-scale UK manufacturing operation at the forefront of centrifugal and static foundry activities. One with a deep metallurgical know-how and major proprietary melting capability to deliver mission-critical projects for customers right across the globe, including in North America.

Our precision machining and assembly infrastructure completes a vertically integrated manufacturing platform that delivers one of the world's most capable and competitive engineering solutions for heat, wear and corrosion resistant alloys.

Westley Group customers benefit from a fully integrated UK manufacture and supply partner, with four specialist divisions operating out of three in-house foundries and two in-house machine shops.

The unique, vertically integrated manufacturing capability of our static and centrifugal foundries and machine shops, gives full control and flexibility over all aspects of manufacture and supply – enabling us to deliver industry leading performance metrics.

We employ 300 people across three manufacturing centres of excellence, specialising in sand castings, centrifugal castings, finish machining, assembly and supply chain led solutions.





Unrivalled experience in the supply of high-integrity copper- and nickel-based castings and forgings for mission-critical naval defence applications.



# Westley Group: A Proud UK History



SSN Swiftsure 1973  
6 boats:  
• New build  
• Spares  
• Sustainment



SSN Trafalgar 1983  
7 boats:  
• New build  
• Spares  
• Sustainment



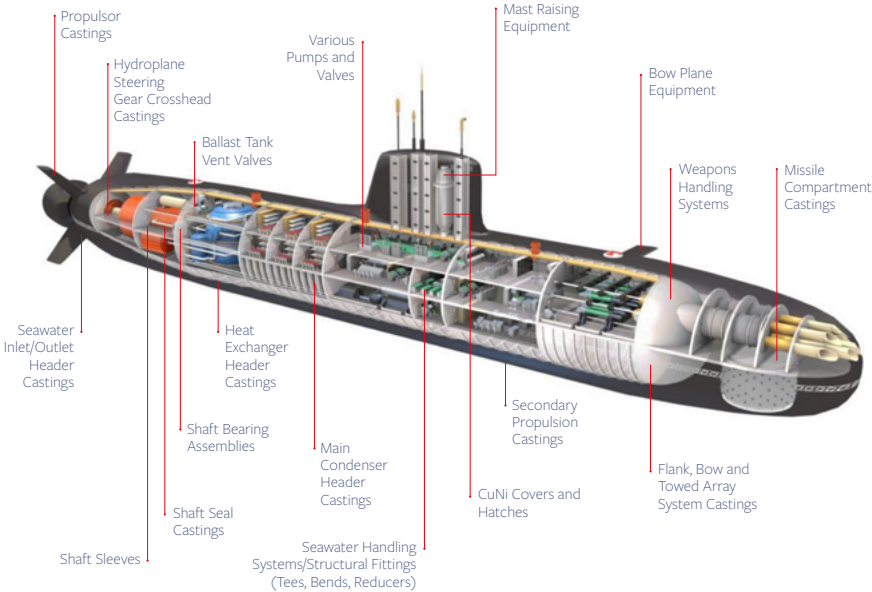
SSN Astute 2010  
7 boats:  
• New build  
• Spares  
• Sustainment



SSN (AUKUS)  
12 boats:  
• New build  
• Spares  
• Sustainment

\*SSBN Programs are not shown in the above

## Typical Applications [SSN/SSBN]



# Westley Group: A Global History



SSK Collins Class  
6 boats:  
• New build (Kockums)  
• Spares  
• Sustainment



SSN-A Agreement – 8-12  
boats on shared platform:  
• New build



SSN Barracuda Class  
6 boats:  
• New build



SSK Upholder/Victorious  
Class (UK/Canada):  
• New build  
• Spares  
• Sustainment

\*SSBN Programs are not shown in the above

# Typical Applications: High-Integrity Submarine Castings

Typical Applications by  
Submarine Class and Value:

#	Equipment	Typical SSK	Typical SSN	Typical SSBN
1	Hydroplane steering gear	✗		
2	Propulsor	✗		
3	Shaft bearing assembly			
4	Ballast tank vent valves			
5	Mast raising equipment			
6	Pumps and valves (various fluid control applications)			
7	Seawater handling systems & structural fittings			
8	Weapons handling system			
9	Covers and hatches			
10	Missile compartment components	✗		
11	Flank, bow and towed array system castings			
12	Secondary propulsion castings	✗		
13	Main condenser header castings	✗		
14	Heat exchanger header castings	✗		
15	Shaft seal castings			
16	Shaft sleeves			
17	Seawater inlet/outlet header castings	✗		





# Our industry approval



## Contact details

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