



# WE ARE DEFENCE

**Performance-critical pumps  
and motors that withstand the  
harshest environments**

# WE ARE CRITICAL PERFORMANCE & RELIABILITY

For more than 200 years, Hayward Tyler has designed, built, and maintained pumps and motors critical to defence and civil industries, that withstand the harshest environments and power the world we live in.

Hayward Tyler is your trusted partner — a time-tested leader with a heritage of excellence and the instinct of innovation. We are known for the reliability and long-term durability of our canned motor pumps and fluid-filled motors and pumps, as well as the world-class service that supports our products. Power, Oil & Gas, Nuclear, Renewable and Chemical industries around the globe rely on our engineering excellence.

Our focus on precision and lean manufacturing makes us the preferred supplier of pumps and motors for power plants and industrial operations, particularly in key applications that involve high pressure, high temperature and difficult-to-handle fluids.

## Supporting Nuclear Defence

From research and development through to decommissioning, Hayward Tyler supports the civil nuclear industry as well as military defence nuclear operations, including system-critical equipment for sub-surface fleets. We supply products to nuclear test loops and training facilities, products and services that support Generation IV reactor design, and we work with clients through the process of decommissioning and fuel reprocessing. We support all generations of power plants with superior products, engineering, field services, and testing.

Since 1984 Hayward Tyler has designed, developed, assembled, tested, and maintained critical pumps for the UK's nuclear-powered defence submarines.

With continual development, these pumps remain in service today supported by a world-leading rigorous service schedule.

# OUR RANGE OF PRODUCTS AND CAPABILITIES

## Defence Nuclear Submarines

- Reactor Heat Removal Canned Motor Pumps
- Reactor Cooling Freshwater Pump
- Emergency Core Cooling System Pump
- Towed Array Flushing Pump
- Saltwater Cooling Pump
- Reactor Cooling Water Pump
- Secondary Propulsion Units

## Naval Testing Facilities

- Clean Sea Water Canned Motor Pumps
- D2O Collection Canned Motor Pumps

## Naval Docksides

- Wharf & PRT Saltwater Trim Pump
- Basin Wall / Dock Saltwater Trim Pump
- Dock Flood Main Pump
- Dock Water Booster Pump
- High Pressure / High Temperature Canned Motor Pumps for RR Raynesway Test Facility
- Boric Acid Transfer Canned Motor Pumps – Shore Based
- Gear Pumps for Diesel fuel transfer



## WE ARE TRUSTED BY THE WORLD

We are a global company with manufacturing and repair facilities in the UK, USA, India, and China that provide rapid-response service and support to our global customers.



# WE ARE QUALITY AFTERMARKET SERVICE & SUPPORT

## World-Class Engineering and Technical Expertise

Our in-house design engineering teams are experienced in analysing complex engineering problems to address your most demanding operational issues. As a default, all designs meet ASME, CSA, PED, or customer-specific pressure standards and quality requirements.

## Extending the Life of Your Critical Equipment

We offer many options for maximising the performance and useful life of your equipment, from repairs and maintenance to leading-edge upgrades. With OEM expertise and engineering capabilities, we help you safeguard your operations.

## Service Teams That Are There for You, Wherever You Are

With a reputation for responsiveness, we provide technical support around the clock, and our field service engineers are equipped to mobilize rapidly to your facility.

## Reliable Supply Chain

As a highly qualified supply chain partner, we have a long history of support to defence and civil industries, which includes proven innovation for nuclear submarine fleets. We constantly build upon this quality and experience to ensure that our products are delivered to the highest standards of reliability.

## STANDARDS & CERTIFICATIONS

**Nuclear** - We hold ASME B & PV Code Certificates of Authorization – N, NPT and NS for Class 1, 2 and 3 items. Our quality assurance program meets the requirements of NQA-1, as modified by NCA -4100, as well as 10CFR50 Appendix B and 10CFR21. We are audited by individual customers and NUPIC and are a participating member of NIAC. We can supply ASME Section III, Division 1, Class 1, 2 or 3 equipment, including those deemed “safety-related” per U.S. NRC requirements.

**Standards** - We design to the most exacting standards, including: F4N, ASME, RCC-M, TUV, Norsok, PED, and IBR.

**Certifications** - We hold the following certifications: ISO 9001, ISO 45001, ASME N/NPT/NS, HSB PED H1 and Industrial Cadets Silver Accreditation for Work Experience Programs.



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