

STONE  
MARINE



PROPULSION

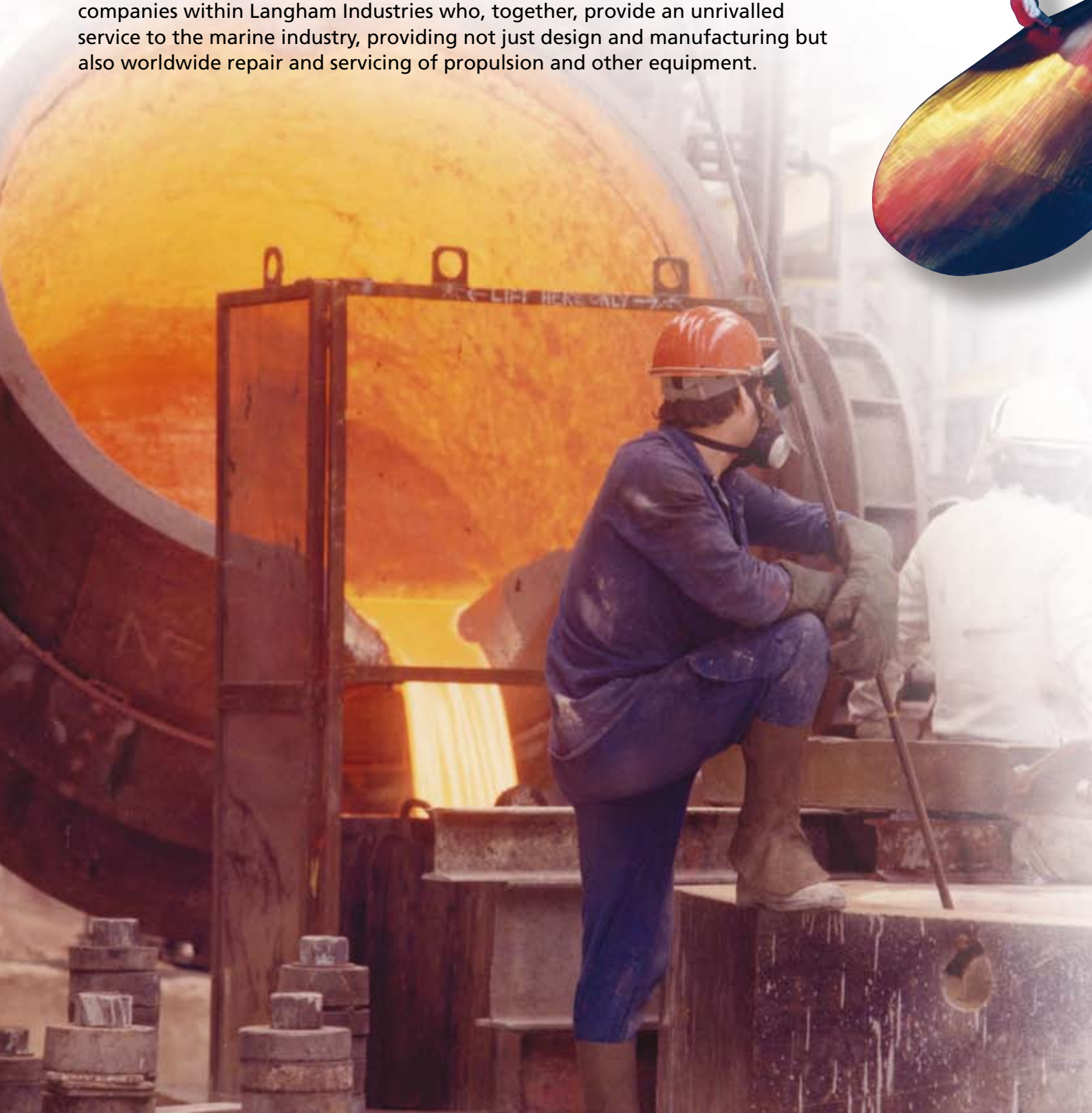


# STONE MARINE PROPULSION

**Stone Marine Propulsion** can trace its roots back to the earliest days of propeller propulsion. There are few, if any, companies in the world that have as much experience and knowledge of all aspects of the design and manufacture of propellers and associated equipment.

Today, Stone Marine Propulsion, until recently known as Stone Manganese Marine, continues to provide design and manufacturing facilities for propellers and stern gear which is second to none.

Stone Marine Propulsion is part of the newly formed Stone Marine Group of companies within Langham Industries who, together, provide an unrivalled service to the marine industry, providing not just design and manufacturing but also worldwide repair and servicing of propulsion and other equipment.



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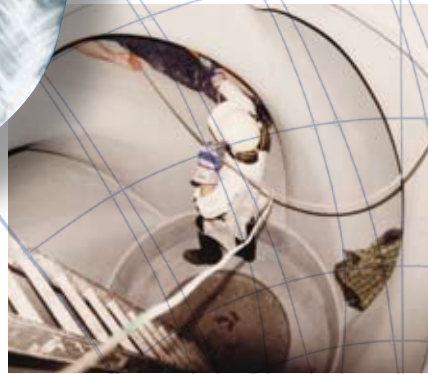


## DESIGN

Stone Marine Propulsion's 'Meridian' design methodology has been developed over many years and is constantly updated as the results of on-going research and experience are assimilated. Meridian propellers are proven to deliver high efficiency and excellent cavitation performance together with associated low levels of excitation forces.

SMP's design teams' practical knowledge of propeller designs for all applications is comprehensive and is backed up by state-of-the-art computer software. In addition to design the Company provide project and technical support to both shipyards and ship owners to ensure that the optimum propeller is fitted to a vessel and, when in service, to ensure that the propeller operating performance is optimised over the long term.

The policy is to provide customers with a comprehensive design service that is both flexible in approach and tailored to exactly fit their requirements. Success is measured by the considerable number of valued customers who regularly return for new equipment.



## COMPANY PROFILE

Stone Marine Propulsion specialises in the design and manufacture of propellers and sterngear. Based at the company's headquarters at Birkenhead in the UK, highly trained staff - specialists in hydrodynamics, metallurgy, propeller technology and naval architecture - design fixed pitch propellers and stern gear for vessels of all sizes and categories. This same team also gives advice on propeller performance expectations and the manufacturing process and materials which should be used for a specific purpose. While design and development is centred in Birkenhead, propeller manufacture is now mainly undertaken in the Far East.



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## MANUFACTURING & QUALITY

A successful propeller will require both first class design and first class manufacture. The manufacturing partners of SMP are specifically chosen for their high quality work and competitive pricing.

Most production is now carried out in the Far East; adjacent to the world's major shipbuilding centres. Smaller propellers of up to 5 tonnes weight are manufactured within the Stone Marine Group by Stone Marine Singapore. Larger propellers are manufactured under license by other production partners who are selected depending on the nature of the propeller to be manufactured. All have modern factories which have benefited from high levels of investment in propeller production technology, electric furnaces and CNC equipment.

Stone Marine Propulsion offers a range of materials from which the propellers can be manufactured depending on their application. These include:

- Nikalium: a proven Nickel Aluminium Bronze with high fatigue resistance
- Superston: a Manganese Aluminium Bronze with high tensile strength
- Manganese Bronze: ideally suited to small propeller applications
- Silicon Bronze: with low magnetic permeability for specialist applications
- Sonoston: offers high damping properties for reduced vibration and noise



Strict quality controls are applied throughout the whole process from design to finished propeller, meeting not only SMP internal standards but those of customers, classification societies and other recognised international bodies. Stone Marine Propulsion is accredited to ISO 9001:2000 and the manufacturing plants to ISO 9002 or higher.

Stone Marine Propulsion is proud of its long history and of the products that it produces using the knowledge it has gained over many years, allied to the best of today's technology. More information is available at the Company's web-site at [www.smp propulsion.com](http://www.smp propulsion.com)



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[www.stonemarine.co.uk](http://www.stonemarine.co.uk)