



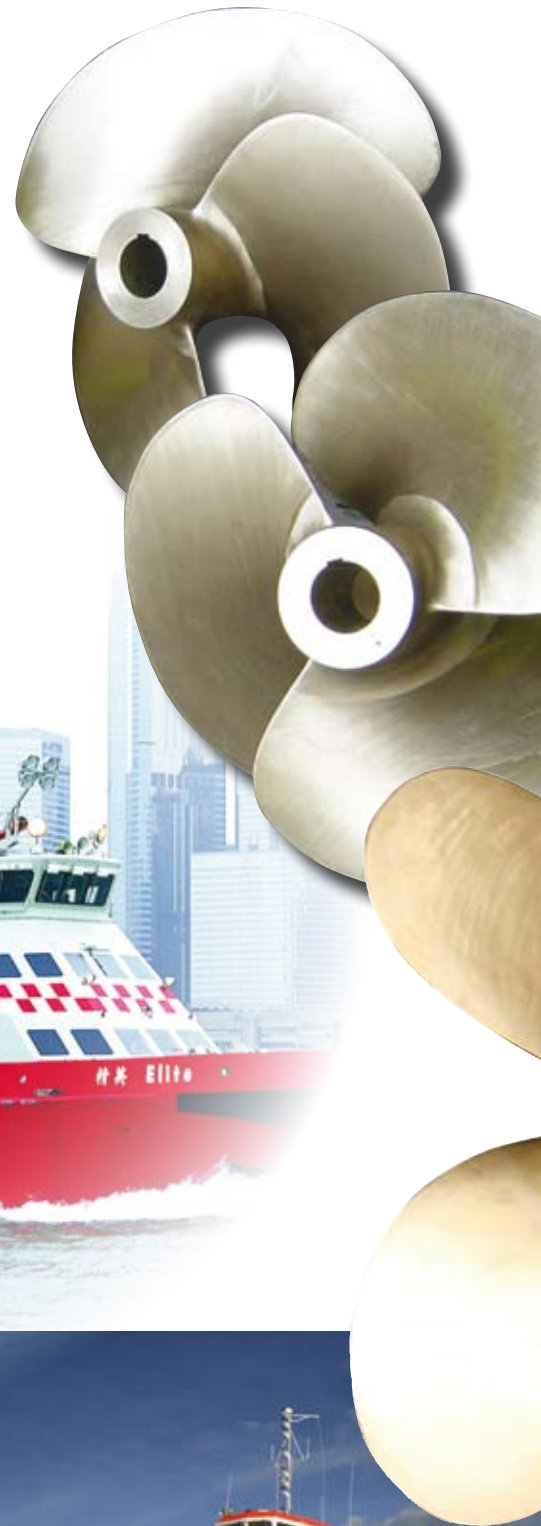
Stone Marine Singapore is part of the Stone Marine Group, an independent privately owned group of companies supplying quality marine products and services to customers throughout the world.

Company Profile

Stone Marine Singapore was established in 1969 and today provides propellers and complete stern gear packages of the highest quality for most types of vessels, exporting its products worldwide.

The goods supplied quickly established the reputation of Stone Marine as a producer of high quality products and the company eventually moved to a brand new custom built factory, where experienced craftsmen, supported by a team of engineers specialising in marine engineering, naval architecture and metallurgy continue to produce goods of the highest quality.

Stone Marine Singapore's program of continuous investment in plant, machinery, technology and training, ensures that its products are designed and manufactured to standards exceeding most of their competitors.



Products

The company can supply either, **fully integrated sterngear packages** covering all the components from the gearbox coupling to the propeller cone, or any of the individual parts, as required by the customer.

Propellers are designed for each application, with the main requirements being minimum noise and vibration, combined with maximum efficiency and speed. These often conflicting requirements are met by optimising the radial pitch distribution, section profiles, skew and rake to minimize cavitation, maximize clearances and hence reduce pressure pulses on the hull, which are often the cause of vibration. State of the art manufacturing and inspection methods are used to ensure that full benefits of the design are realised: propellers generally meet ISO 484:1981 Class 1 or Class S standards of accuracy and are dynamically balanced to ensure smooth running.

Shafts are supplied precision machined and straightened, in a range of alloys, the alloy selected depending on the strength and corrosion resistance required.

Bearings of all types and makes can be supplied, for oil, grease or water lubrication. Special care is taken to ensure the correct clearances are maintained for the required flow of lubricant between the bearings and the rotating parts.

Stern tubes can be designed and supplied in steel or aluminium alloys for either water or oil lubrication.

Seals from any of the major seal suppliers are usually included in our sterngear packages.

Brackets and Rudders can be supplied in a range of alloys, as single cast pieces or as fabrications.

Nozzles are manufactured to a variety of section profiles with or without stainless steel centre rings.

If a **Sterngear Package** is ordered, the finished parts are assembled in our factory, blue fitted in the presence of a classification society surveyor and stamped, before being carefully packed, together with assembly instructions, and shipped to customers around the world.

Whether the customer chooses a complete sterngear package, or individual components, they can be assured that all are manufactured to the most exacting standards and classification society requirements.

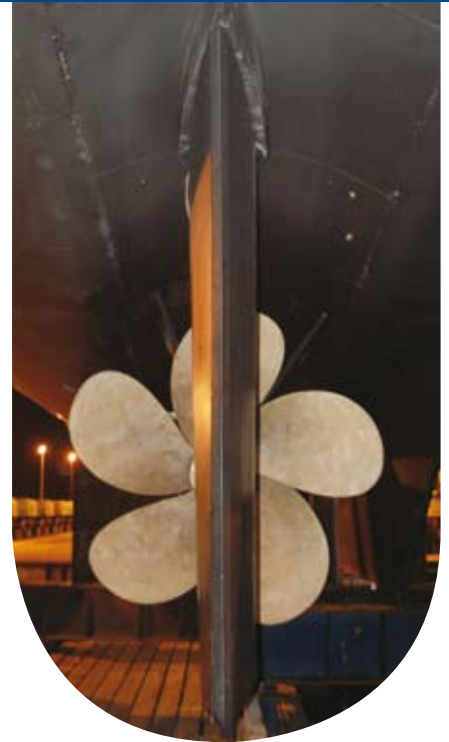


Research, Development & Consultancy

The Stone Marine Group companies have been at the forefront of propulsion technology since propellers were first fitted to ships in the 1800's, with many innovations in design and materials being developed and patented by the Group's research staff during the subsequent years. The Group continues to maintain a program of research and development covering all aspects of propulsion equipment. Group engineers are continually striving to further improve the performance of propellers, by incorporating

the latest advances in propeller design and metallurgy, utilising their own in-house resources and through their longstanding relationships with researchers in Universities and Tank Testing Facilities throughout the world. This cooperation enables the company to offer innovative solutions, technically and commercially viable, to meet the demands of owners of all types of modern vessels operating in today's ever changing commercial and environmental conditions.

For new constructions our naval architects and engineers liaise with the customer's technical staff and consultants during the preliminary design stages of the vessel to ensure that the optimum solution for the propulsion package is selected. In the case of retrofits of equipment in existing vessels, we can analyse trials data and offer solutions to correct any performance deficiencies.



Quality Assurance

Since Stone Marine Singapore started operations in 1969, the management has insisted that only products of the highest quality are permitted to leave the factory stamped with the company's name. To ensure this is achieved, only top quality certified materials from reputable sources are used, and throughout the whole production process frequent inspections are carried out and the results documented. This commitment to quality ensures that all items leaving the factory comfortably exceed contractual and regulatory requirements and, as a result, our products are widely recognised throughout the marine industry as being among the very best available.

Following a rigorous audit of all its operations by Lloyd's Register Quality Assurance (Singapore), the company's quality management system was certified as conforming to the requirements of ISO 9001:2000. Subsequent six monthly surveillance visits by LRQA auditors have confirmed the company's ongoing commitment to supplying goods and services which meet or exceed contractual requirements.



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