



# STONE MARINE PROPULSION

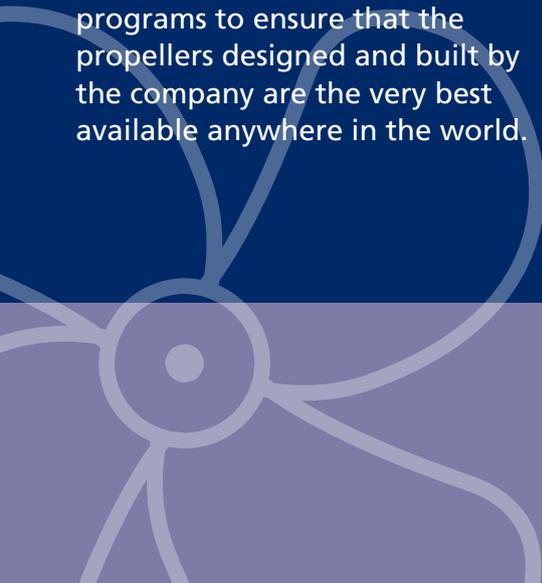




For nearly 180 years the name Stone has been synonymous with the highest standards of propeller design and manufacture. Today Stone Marine Propulsion, as the company is now known, is part of the Stone Marine Group which, through its various companies provides a complete design, manufacture, service and repair package to vessel owners, designers and constructors.

#### THE COMPANY

Stone Marine Propulsion specialises in the design and manufacture of propellers and sterngear for commercial and naval vessels of all types and sizes. Highly trained and experienced specialists in all aspects of propeller design and construction, including hydrodynamics, metallurgy, propeller technology and naval architecture use their knowledge and state of the art computer programs to ensure that the propellers designed and built by the company are the very best available anywhere in the world.



# STONE MARINE PROPULSION

## DESIGN

Over the years Stone Marine Propulsion designers have been responsible for many world leading propeller designs. These are constantly updated as a result of ongoing research and the improvements and changes to the power plants used by the vessels. Most notable of the recent propeller developments is the NPT propeller. Developed by the company to maximise the efficiency of vessels employing de-rated or low revving engines it is also proving extremely successful in maximising economy on vessels operating a 'slow steaming' policy. (See sidebar)

Designing and manufacturing propellers for a wide range of vessels, both commercial and naval is second nature to our design and engineering teams and so is the extensive project and technical support which is provided to naval architects, ship constructors and, when in service, the vessels owners. Support which means that from the earliest point in a ships design our teams will work with the naval architects and ship builders to ensure the optimum propeller design is fitted to the vessel. Support which continues when the vessel is in service, ensuring propeller operating performance is optimised over the long term.

Designs are maximised, not just for power output, but also to produce the lowest possible noise and vibration. A more complete list of the services provided by our company can be found on the back cover, or on our website at [www.smpropulsion.com](http://www.smpropulsion.com).

NPT – For outstanding performance **and** economy

The initials NPT stand for 'new profile technology', and our new propeller is understandably causing quite a stir. Already proving in service that it is capable of producing even better results than tank testing and computer modelling originally indicated it is now being purchased by more and more shipping companies; and for existing vessels as well as new builds. It's not hard to see why.

- Delivers substantially better economy and lower emissions
- Even lower fuel consumption when fitted with Stone Marine Propulsion's cap fins
- Usually costs no more than a conventional propeller
- Cavitation friendly section profiles reduce blade surface area and increase efficiency
- Reduced propeller weight and inertia can produce further savings up the propulsion chain
- The NPT design reduces noise and vibration.

To find out more about this remarkable propeller go to our website at [www.smpropulsion.com](http://www.smpropulsion.com)



## MANUFACTURING AND QUALITY

There is little point in designing a first class propeller if it is let down by the quality of manufacture; we therefore choose our manufacturing partners very carefully to ensure a combination of the highest quality workmanship and competitive pricing.

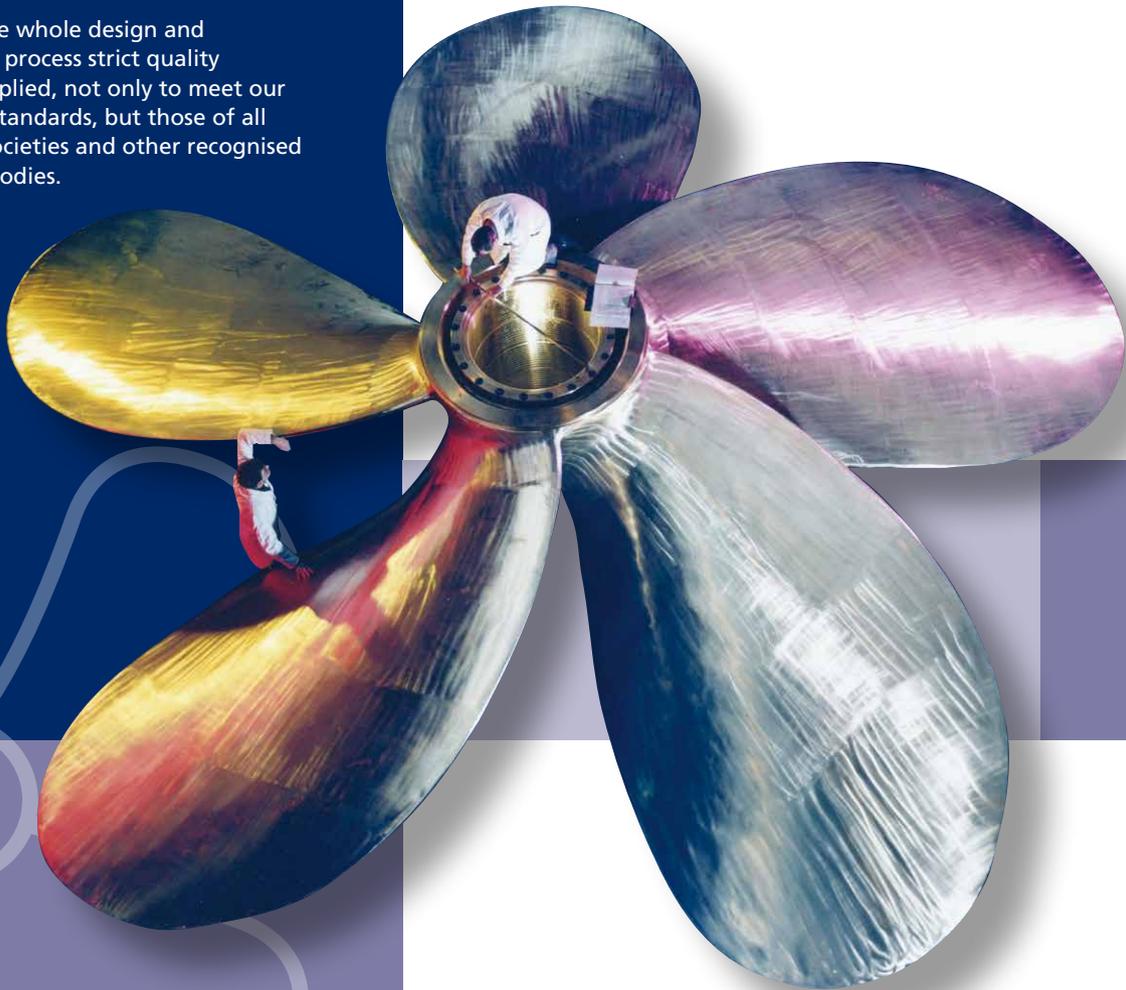
Most of our production partners are based in the Far East. All have modern factories which have benefited from considerable investment in propeller production technology, electric furnaces and CNC equipment.

Propellers are manufactured from a range of materials and the one chosen for each propeller will have been carefully selected to match the vessels role.

Throughout the whole design and manufacturing process strict quality controls are applied, not only to meet our own exacting standards, but those of all classification societies and other recognised international bodies.

## STONE MARINE PROPULSION – PRIMARY ACTIVITIES

- Fixed pitch propeller design and manufacture – all sizes for Merchant and Military
- Sterngear / Shaftline design and supply
- Propeller research and development
- Propeller analysis and performance
- Propeller foundry technology
- Consultancy (hydrodynamic and metallurgical technology. Investigations into ship performance, cavitation noise and vibration)
- Expert witness services for the legal profession



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