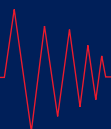


# Rubber Design

Leading the way  
in propeller  
shaft installations





# Leading

## Expertise & Innovation



Why is it important for today's yacht builder or operator to use an experienced and innovative supplier for their propulsion equipment.



- **Increased operational expectations**  
Rubber Design supports its products during the life of the vessel, and therefore, has regular contact with the yacht operators. Rubber Design

knows and understands these further expectations whether it is pure performance, longevity, reliability, comfort or ocean going security.



- **Pushing the limits for design and materials**

In Rubber Design's Research & Development department, all components used are first modeled and examined using finite element analysis tools. The finished products are then thoroughly tested using destructive and non-destructive tests for both custom and standard products.



- **Building constraints**

Rubber Design has many years experience working alongside the top superyacht builders, from the conception of the yacht, through to the Rubber Design team of installation engineers who supervise, fit and maintain the equipment installed into the vessel.

- **Quality and service**

Rubber Design produces high quality, cost effective systems. This is achieved by a continual investment in its people, tools, systems and procedures to give maximum value to the customer.



- **Environmental, classification & statutory considerations**

These regulations are constantly introduced, updated and enforced. Compliance in this area is essential. Rubber Design's knowledge in statutory and class rules ensures equipment supplied is fully compliant.



Expertise & Innovation



# the way in propeller s

- Thrust Blocks
- Rudder Stock Installations
- Flexible Couplings
- Propeller Shaft Installations
- Anti-vibration Mountings
- Bellows





# shaft installations

## Shaftline Solutions & Applications



Rubber Design is in the business of noise control, this is achieved by the production of equipment which both actively and passively controls vibration. To ensure minimum noise generation Rubber Design produces the major propeller shaftline equipment.



Components supplied are as follows:



- **RD Flexible Couplings.** A full range of flexible couplings designed to take high thrust and to control the dynamics of transmitted torque.

- **RD Thrust Blocks.** Stand alone and sterntube integrated thrust-blocks are supplied to new build and for retro fit projects.

- **Tail and Intermediate Shafts.** Manufactured in a range of materials from mild steel to high specification duplex steels.

- **Stern tubes and Bracket Bosses.** A range of sterntube, hull tubes and bosses in steel and aluminium are produced for oil bath, water and grease type systems.

- **Bearings.** Standard and custom manufactured for water, oil and grease lubrication.

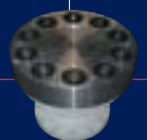
- **Stern Seals.** A range of specialist proprietary seals which are designed for low maintenance and long life.

- **Propellers.** Working with suppliers of propellers designed and manufactured to the highest ISO tolerances to maximize performance and minimize vibration.

- **Rudder Stocks & Tubes.** Generally custom produced in conjunction with the naval architects. Stocks and tubes of various materials are designed and produced on site, with specialist high load, low friction bearings being fitted.



Shaftline  
Solutions



# the way

## Leading Consultancy & Production

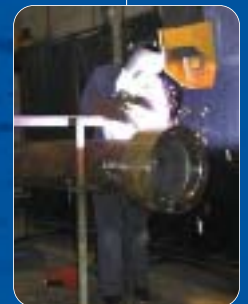


Rubber Design is a leading consultancy and production company offering a range of vibration control solutions and associated marine propulsion equipment.

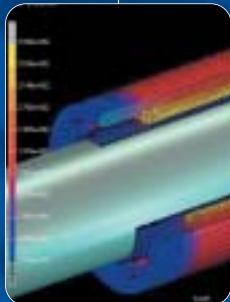
Due to the unique alliance with the specialized production & engineering company Biezepol, Rubber Design is able to offer the customer a total product.



Design, testing and production through to assembly and logistics all take place in Heerjansdam and are carried out by using the most modern techniques such as CAD, FE, CNC, laser-optical alignment equipment and vibration measurement and analyzing equipment. The different stages in the production process are accompanied by quality and safety checks as standard.



In the new river-based premises both companies have all disciplines under one roof. The way the new premises are organized is set against the background of an efficient running of all the processes.



In 1998 Rubber Design obtained ISO 9001 certification. This certification covers the design, development, manufacture and service of all products.



Consultancy &  
Production





# Rubber Design

vibration and noise control

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