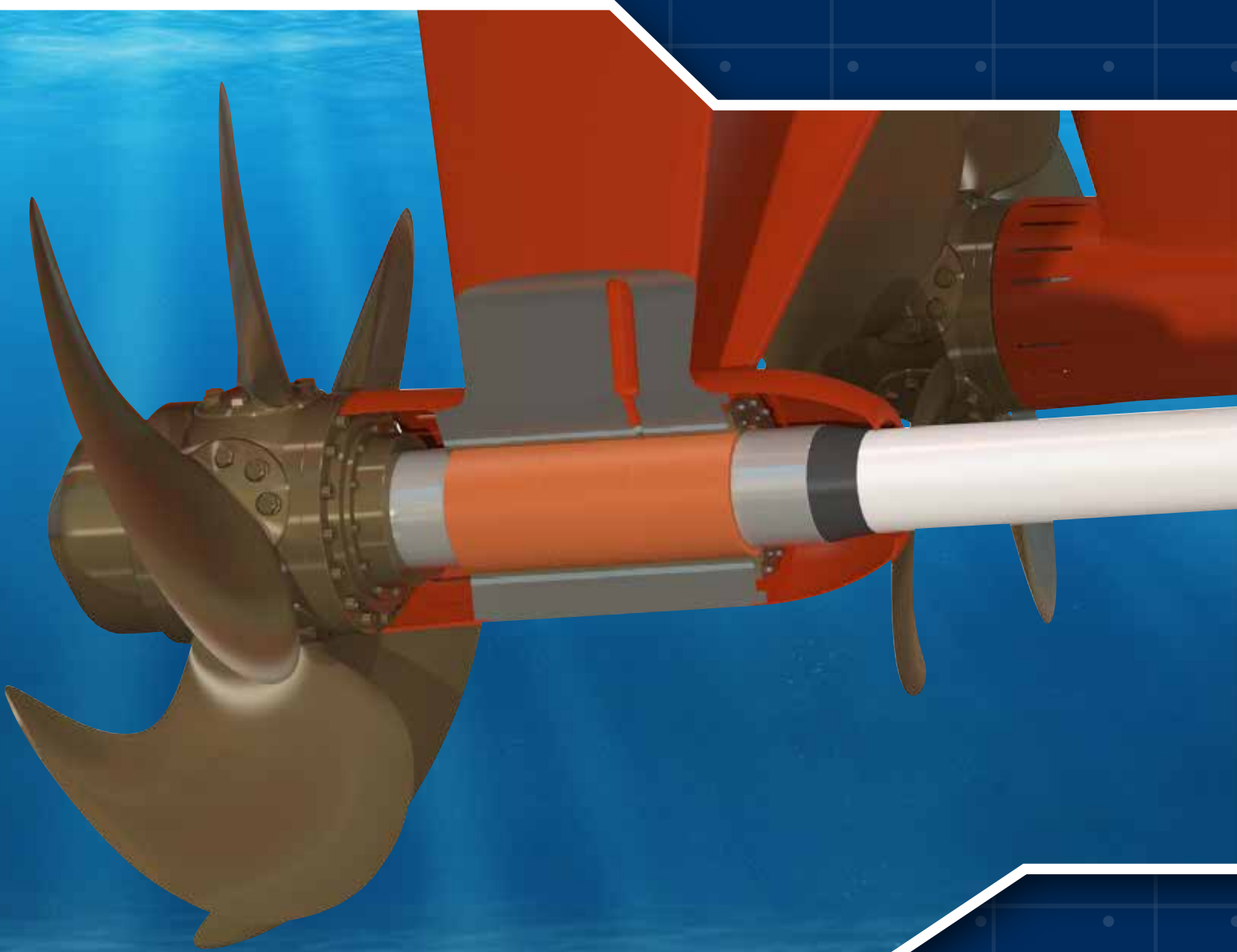


THORDON

THORDON BEARINGS INC.

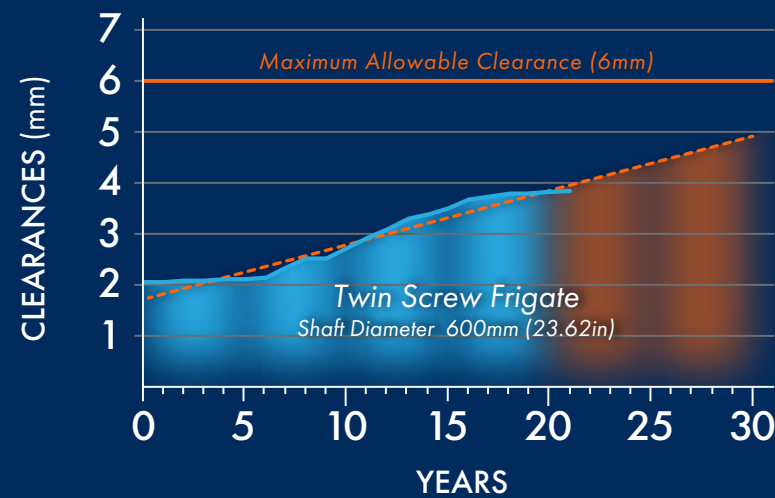


**COMPACT SEAWATER LUBRICATED
PROPELLER SHAFT BEARING SYSTEM
FOR NAVY & COAST GUARD VESSELS**

ENSURE ASSET RELIABILITY

Thordon COMPAC Water Lubricated Propeller Shaft Bearing Clearance

(Avg. Clearance of Port & Starboard)



Navy & Coast Guard Benefits:

- Ensure asset readiness with long wearlife & bearing reliability
- Lowest through life costs of any bearing and seal in the market
- Low acoustic signature with proven elastomeric polymer bearings
- Survivability (non-catastrophic failure mode) and Safe Return to Port
- Reduced docking frequency
- Simple and fast installation

Ensure Asset Readiness

Reliability, long wear life and strong technical support have made Thordon the first choice for propeller shaft bearing solutions for Navy and Coast Guards. With over 50 years' experience supplying marine propeller shaft bearings, in use operation has proven that Thordon's bearings provide significantly longer wearlife compared to other bearings, increasing propulsion system reliability.

Lowest Through Life Costs, Reduced Maintenance

Navies and Coast Guards can achieve cost savings through ease of installation, low to no replacement cycles, lower drydocking frequency and a shorter drydocking period. A split COMPAC bearing in a solid bronze shell is less expensive than a typical rubber stave design installed in a split bronze carrier with milled dovetail slots. In addition, a single bearing with a removable keyset allows for bearing withdrawals, inspection and re-installation quickly in dock or afloat. And Thordon's SeaThigor mechanical seals offer the lowest maintenance seal in the market.

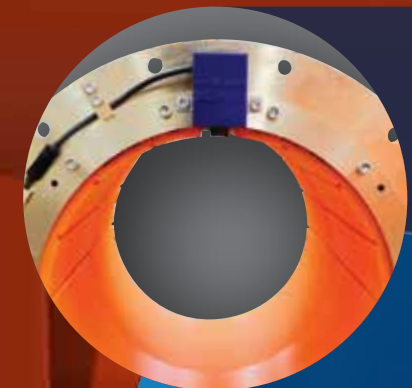
Low Acoustic Signature

Thordon COMPAC's low acoustic signature adds to the stealth capabilities of the vessel. In all installations, Thordon met the noise requirements for the propulsion bearings. Thordon Bearings manufactures a propeller shaft bearing system that is unlike other bearing systems. The low friction of the Thordon bearings and the early hydrodynamic film development creates an acoustically quieter bearing.

Safe-Return-To-Port (SRTP) Feature

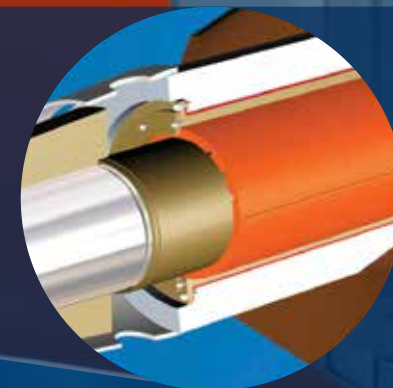
Thordon's SeaThigor mechanical face seal has a unique safe-return-to-port (SRTP) mode that means if the seal faces are ever damaged, the shaft can still turn with the SRTP engaged allowing the vessel to return safely to the nearest port under its own power.

COMPAC OPEN SEAWATER LUBRICATED PROPELLER SHAFT BEARING SYSTEM



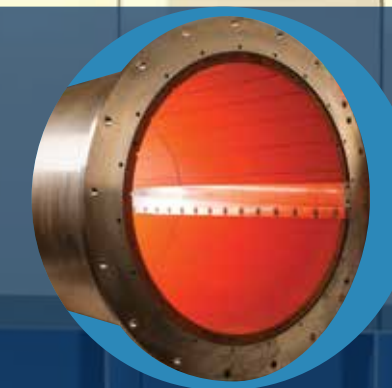
Thordon Bearing Condition Monitoring System (BCM)

- BCM system provides remote and real-time bearing clearance information on board the vessel for engineering staff. Vessels can avoid unnecessary downtime by getting instant and accurate information, improving the ability to better manage your fleet.
- The BCM sensors can measure up to 4 bearing positions, per propeller shaft line.



COMPAC Bearings

- COMPAC is a self-lubricating elastomeric polymer material with no grooves on the bottom section of the bearing to establish a stable hydrodynamic film at lower shaft RPMs than other water lubricated materials.
- The low coefficient of friction of the self-lubricating COMPAC bearing minimizes start up torque and both friction and wear.
 - The COMPAC bearing is approved by all the major Classification Societies for use in a 2:1 L/D ratio (in position closest to the propeller), making it a much shorter and lighter than other bearings.
 - The bearing material does not have a shelf life and will not work harden in use.



COMPAC with Tapered Key Design

- The COMPAC split bearing with a tapered key design allows the bearing to be removed for inspection or replacement without removing the shaft or bearing carrier.



ThorShield Shaft Coating System

- Thordon's tough epoxy coating ThorShield is designed to provide integrity against shaft corrosion.
- In the event of damage, seawater cannot wick under the coating along the shaft.
- ThorShield is spot repairable.



SeaThigor Mechanical Face Seal

- The SeaThigor seal is a maintenance-free high-performance seal manufactured for long wear life and reduced maintenance costs.
- The Safe Return to Port Emergency seal allows the shaft to continue to turn while the emergency seal is engaged.



Thordon Water Quality Package

- Thordon's WQP delivers a self-contained and constant supply of conditioned water to both the forward seal and all bearings ensuring, long, predictable, bearing wear life.
- Removal of abrasive particles by the WQP significantly extends the wear life of the bearing.

Trusted By Over 50 Navies & Coast Guards Worldwide

- Algerian National Navy
- Argentinian Navy
- Royal Australian Navy
- Government of Australia
- Bangladesh Navy
- Belgian Navy
- Brazilian Navy

3

- Canadian Coast Guard
- Canadian Navy
- Chilean Navy
- Navy of the Republic of Columbia
- Ecuadorian Navy
- Egyptian Navy

- French Navy
- German Navy
- Hellenic Navy
- Indian Coast Guard
- Indian Navy
- Indonesian Navy

- Italian Navy
- Malaysian Navy
- Maldivian Coast Guard
- The Armed Forces of Malta
- Maltese Government
- Mauritius Coast Guard

4

- Royal Netherlands Navy
- Royal New Zealand Navy
- Nigerian Navy
- Peruvian Navy
- Philippine Navy
- Philippines Government (BFAR)
- Polish Navy

5

- Russian Coast Guard
- Russian Navy
- Royal Saudi Navy
- Senegalese Navy
- Singapore Navy
- Slovenian Coast Guard

- South African Navy
- Spanish Navy
- Sri Lanka Navy
- Swedish Coast Guard
- Swedish Navy
- Taiwan Coast Guard
- Taiwan Navy

- Royal Thai Navy
- United Arab Emirates Coast Guard
- U.S. Coast Guard
- U.S. Navy
- UK Government
- Vietnamese Navy

6

CUSTOMER FOCUSED TO QUICKLY MEET YOUR NEEDS

Quick and Responsive Service

It takes quality products to be globally successful in the water-lubricated bearing & shaft seal industry. It also takes great service to keep customers coming back.

Thordon Bearings Inc. is geared to respond quickly to supply high performance seal & bearing solutions. Our products arrive quickly, fit right & last!

Extensive Distribution Network

Thordon Bearings has an extensive distribution network of more than 75 distributors in over 100 countries to supply & service our global customer base.

Non-standard requests are met with responsive design, quick machining & speedy delivery.

Application Engineering

Thordon engineers work closely with customers to provide innovative bearing & shaft seal system designs & solutions.

Manufacturing Quality

We manufacture to ISO 9001 Quality System requirements.

Thordon Bearings Inc. is a family-owned company with manufacturing and new product development facilities in Burlington, Ontario, Canada. In addition, we operate a new leading-edge manufacturing plant in Slupsk, Poland.

Contact us for our installation references.

High Performance Bearings and Seals; Industry-Leading Service

Thordon Bearings is an industry leader in the design, manufacture, supply & installation of high performance, pollution-free, shaft seal & bearing systems.

Your Authorized Thordon Distributor

THORDON
THORDON BEARINGS INC.

3225 Mainway, Burlington, Ontario L7M 1A6 Canada

Tel: +1.905.335.1440 Fax: +1.905.335.4033 Email: info@thordonbearings.com Website: www.ThordonBearings.com



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