

# SXL

## BEARINGS AND SEALS

Built for Fishing, Workboat & Coastal Waterways



**THORDON**  
THORDON BEARINGS INC.

ZERO POLLUTION | HIGH PERFORMANCE | BEARING & SEAL SYSTEMS

# ENGINEERED TO PERFORM. BUILT TO LAST.



Reliable



Quick Delivery



Easy Installation



Eliminates Maintenance



Saves Money  
Reduced Operational Costs



Experienced team  
along the inland & coastal waterways



Hundreds of  
Coastal Vessel References

## TG100 Seal

### Safe Return to Port Emergency Seal

A unique feature of the TG100 is that the emergency seal allows you to return safely to the nearest port if your primary seal is ever damaged.

### Maintenance-Free Shaft Seals

The TG100 seal is designed to operate without any need for spare parts or maintenance between vessel docking periods. The elastomeric bellows and emergency seal have an unlimited shelf life, further reducing any need for expensive overhaul kits in the future. Combine these features with the use of only silicon carbide faces for both the dynamic and stationary faces, TG100 takes the work and cost out of your vessel operations.



## SXL Tailshaft Bearings

### Long Bearing Wearlife and Reliability

Thordon SXL offers long bearing wear life that reduces maintenance costs for vessels operating up to 20% of the time in abrasive waters. Lubricants in the SXL polymer formulation reduce start up friction and offers smoother operation at lower shaft RPM.

It absorbs more misalignment and deflection from impact than other propeller shaft bearings.

### Save Money

Vessels that operate with SXL tailshaft bearings are more reliable – they operate longer, require less maintenance and fewer drydockings.

This means less money spent and more money earned!



“

We recently installed Thordon's SXL bearings in both propulsion and rudder systems. We are pleased with the performance of the SXL bearings, they have greater load capacity and behave very well against the abrasive elements of the waters where our tugs works daily.

– Ecuastibas  
(Ecuador)

We prefer Thordon SXL and for its versatility. We are able to use it in many different applications and with their wide range of available sizes. It has excellent performance in a variety of working conditions.

– Maridueña Shipyard  
(Ecuador)

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## ThorPlas-Blue Tiller Arm Bushings

### Reliable Operation

Ensuring reliable operation of all equipment installed above the waterline is a tough issue for any ship's crew. Originally developed to replace greased bronze bearings, ThorPlas-Blue is lifetime lubricated – lubricants in the homogeneous polymer ensure a low, stable coefficient of friction, even as the bearing wears, while offering long bearing wear life with no maintenance.

### High Load Capability

ThorPlas-Blue is used to replace highly loaded greased bearings, capable of design pressure up to 6527psi (45MPa).

## SXL Rudder Bearings

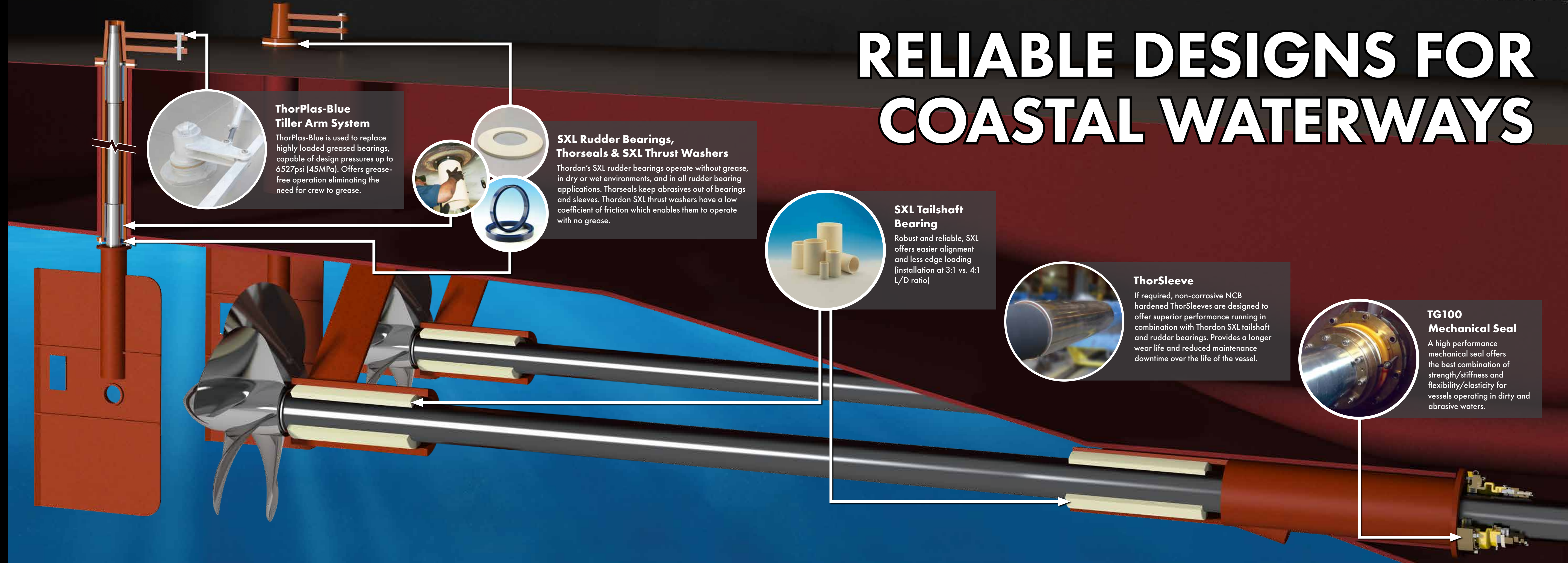
### Grease-Free Operation

Thordon's SXL offers low friction and long bearing wear life without the use of grease. There is no maintenance due to the self-lubricating properties ensuring smooth operation.

### Superior Performance

Our polymers offer the best combination of strength and stiffness with flexibility and elasticity, along with high abrasion resistance.

Thordon SXL has a lower modulus of elasticity (68,817 psi or 440MPa) than other non-metallic bearings, resulting in significantly increased vibration dampening, accommodation of edge loading, and better impact resistance than other non-metallic materials.



### ThorPlas-Blue Tiller Arm System

ThorPlas-Blue is used to replace highly loaded greased bearings, capable of design pressures up to 6527psi (45MPa). Offers grease-free operation eliminating the need for crew to grease.

### SXL Rudder Bearings, Thorseals & SXL Thrust Washers

Thordon's SXL rudder bearings operate without grease, in dry or wet environments, and in all rudder bearing applications. Thorseals keep abrasives out of bearings and sleeves. Thordon SXL thrust washers have a low coefficient of friction which enables them to operate with no grease.

### SXL Tailshaft Bearing

Robust and reliable, SXL offers easier alignment and less edge loading (installation at 3:1 vs. 4:1 L/D ratio)

### ThorSleeve

If required, non-corrosive NCB hardened ThorSleeves are designed to offer superior performance running in combination with Thordon SXL tailshaft and rudder bearings. Provides a longer wear life and reduced maintenance downtime over the life of the vessel.

### TG100 Mechanical Seal

A high performance mechanical seal offers the best combination of strength/stiffness and flexibility/elasticity for vessels operating in dirty and abrasive waters.

# RELIABLE DESIGNS FOR COASTAL WATERWAYS



# CUSTOMER FOCUSED TO QUICKLY MEET YOUR NEEDS

## Quick and Responsive Service

It takes quality products to be globally successful in the water-lubricated bearing and 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 and bearing solutions. Our products arrive quickly, fit right and last!

## Extensive Distribution Network

Thordon Bearings has an extensive distribution network of more than 75 distributors in 100 countries to supply and service our global customer base. Non-standard requests are met with responsive design, quick machining and speedy delivery.

## Application Engineering

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

While TG100 seals are designed as a standard product that will virtually bolt into place, global installation technical support is available for those cases where specific application engineering is required.

## Manufacturing Quality

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.

We manufacture to ISO 9001 Quality System requirements. 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 and installation of high performance, pollution-free, shaft seal and bearing systems.

**Your Authorized Thordon Distributor**

**THORDON**  
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