

## Bearings & Wear Parts for Submarines

**TENMAT** RAILKO NF and *FEROFORM* T grades are approved and used by Navies worldwide for propeller shaft and rudder bearings in submarines.

The industry leading materials offer reduced stick slip, improved fuel efficiency, lower vibration and reduced wear.

**TENMAT** marine bearings have been specified and used as water lubricated stern tube bearings in over 120 submarines and proven themselves over the past three decades, from the Arctic to the Tropics.

**TENMAT** marine bearings are made out of a hard wearing material that outlives rubber and thermoplastic bearings alike and is ideal for arduous applications, even in sediment rich waters.

Benefits of *FEROFORM* and *RAILKO* marine grades vital to submarines include reduced noise, stick slip and shaft wear.



## Applications

- Stern Tube / Propeller / Impulsa Bearings
- Rudder / Dive Plane / Tiller Bearings
- Aerial / Antenna Hinge Point
- Snork Mast Bearings
- Periscope Bearings
- Retractable Bollard / Capstan / Winch Bearings
- Torpedo Tube Door Bearings
- Main Hatch Bearings

## Key Features

- Noise free (Stealth Operation)
- Low bearing and shaft wear
- Low friction
- No stick slip at low speeds
- Ability to run dry and wet
- Higher vessel speeds
- Works with gun metal
- Lower fuel consumption
- Low break out torque



# TOTAL MARINE SOLUTIONS

## Availability

**TENMAT** bearings can be supplied as:

- Base Tubes
- Split Bearings
- Stave Bearings
- Fully Machined Bearings
- Complete Packages in Bronze or Stainless Steel Housings

**TENMAT** bearings are available with:

- ID from 20mm up to 1150mm
- OD from 30mm up to 1260mm
- Lengths up to 1200mm
- Custom sizes available upon request



**TENMAT** RAILKO & FEROFORM materials are fully approved by ALL major marine classification societies for critical applications and used by over 30 navies worldwide.

Bureau Veritas  
Lloyd's Register  
Germanischer Lloyd  
American Bureau of Shipping  
Det Norske Veritas  
Korean Register of Shipping  
Nippon Kaiji Kyokai  
China Classification Society



Contact **TENMAT** today to receive further information about FEROFORM and RAILKO bearings and other proven solutions for Marine applications.

Issue 3/16

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