



E R A D I C A T E S H A F T A L I G N M E N T P R O B L E M S

Marine Propulsion Bearings

Page 1 of 2

The Cooper Bearings Group is a full service provider of sales and technical engineering support to our customers around the world. No other split roller bearing manufacturer matches the Cooper breadth of knowledge and experience.

Significant investment has transformed Cooper into a responsive, customer focussed organization offering stock availability for standard product and competitive lead time for special bearings. We support our customers with rapid technical and commercial information.

Features & Benefits

Full service manufacturer

Vast marine engineering knowledge.
 Problem solving solutions a specialty.
 Technical and installation support service.
 Proven range of products.

Established organization

Global distribution network.
 Large bearing inventory in US and UK
 Local support provided by Cooper and distribution partners.

Split to the shaft bearing

Low cost of installation.
 Ease of replacement. Reduces downtime.
 Increases maintenance efficiency.

Comprehensive range of mountings

Meets most application requirements from the standard range.
 Pillow blocks available in aluminum, steel, grey iron and ductile iron including: flanges and custom bearings.

Superior concentric to the shaft sealing

Minimum clearance, non-contact multi labyrinth seals as standard.
 Prevents seawater contamination.
 Retains lubrication.
 Prolongs bearing life.

Product features

Jacking screws: Makes for perfect installation alignment.
Solid base: Eliminates underside recesses allowing use of Chockfast®.
Inspection aperture: Provides accurate shaft monitoring.
Spherical lubrication feature (SLUB):
 Retains alignment during hull flexing.
Temperature and vibration probe feature:
 Allows for constant monitoring capability.



To ensure Cooper continues to lead our industry, we have implemented a new product and business development process. This ensures we will continue to offer products and services that provide demonstrable competitive advantage.

Increase uptime & cut downtime

The Cooper split roller bearing solves difficult alignment problems, minimizes downtime and reduces maintenance hours giving you a competitive advantage over your competitors.

In addition, when replacement is necessary, Cooper users save valuable time that would otherwise be lost by the time consuming replacement of non-split bearings.

Workboats to high speed ferries Our marine propulsion system experience ranges from workboats and ice breakers to high speed ferries and naval vessels, with either conventional propulsion shafting or waterjet drives.

Cooper split roller bearings are designed to operate reliably and cost-effectively and provide continuous operation, even in very wet and humid conditions.

Cooper bearings are also specified on deck equipment including cable drum winders and winches.

COOPER

A Supplier of Competitive Advantage

C O M P L E T E L Y S P L I T T O T H E S H A F T B E A R I N G S & S E A L S

Military specifications

When used in naval vessels, our bearings are designed to withstand extreme shock loads. The Cooper bearing meets or exceeds the most demanding requirements of military naval specifications. Cooper bearings are in constant use by navies around the world.

Inspection and replacement

Reducing downtime to a minimum in trapped locations is possible with totally split to the shaft roller bearings. Equally, bearing replacement time is reduced as major components remain in place during planned maintenance periods. There is no need to re-align the bearings or propulsion system.

Comprehensive mountings range

Cooper supplies various mounting options and for all except the hanger mountings, the bearing is housed in a cartridge supported by the mounting unit. The cartridge and mounting units are designed to allow the shaft to be up to $\pm 2.5^\circ$ out of alignment with respect to the mounting base on initial assembly. This alignment feature is intended for static or very slowly changing operating conditions.

Superior sealing

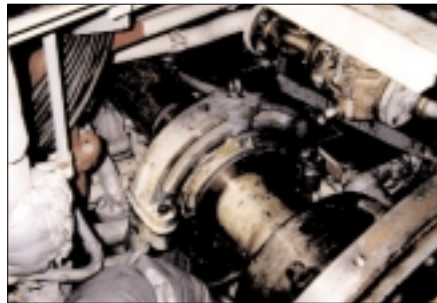
Cooper seals are constantly concentric with the shaft regardless of seal type. All Cooper seals are designed to retain lubrication and keep out harmful particles and corrosive salt water.

Technical services

With nearly one hundred years experience in split roller bearings design and application, Cooper is recognized world wide as the leading authoritative advisor on application and sealing solutions for the marine propulsion industry.



Easy access for maintenance and inspection on propulsion shafting gives more uptime and lower maintenance, inspection and replacement costs and competitive advantage.



The Cooper bearing is easy to fit into confined spaces onboard vessels of all sizes.



The marine pillow block with jacking screws solves difficult propulsion shafting alignment problems. This pillow block is supplied with a solid base.

COOPER BEARINGS ARE ACCEPTED BY:

- American Bureau of Shipping
- Det Norske Veritas
- Germanischer Lloyd
- RINA
- Lloyds

COMPLETELY SPLIT TO THE SHAFT BEARINGS & SEALS

COOPER

Cooper Bearings Group

The Cooper Split Roller Bearing Corp
5795 Thurston Avenue
Virginia Beach, VA 23455 - 3378
USA
Telephone 757 460 0925
Fax 757 464 3067

Cooper Roller Bearings Co Ltd
Wisbech Road
King's Lynn
Norfolk PE30 5JX
England
Telephone +44 (0) 1553 763 447
Fax +44 (0) 1553 761 113

www.CooperBearings.com

Cooper Geteilte Rollenlager GmbH
Postfach 100 423
Oberbenrader Str 407
47704 Krefeld
Germany
Telephone + (49) 2151 713 016
Fax +(49) 2151 713 010