

BEARING INSPECTION & ANALYSIS

BY DIEHL ENGINEERING



BEARING DESIGN

INSPECTION & FAILURE ANALYSIS

WATER-LUBRICATED SLEEVE BEARINGS

OIL LUBRICATED, SLEEVE BEARINGS

ANTI-FRICTION BEARINGS



Bearing Design, Inspection & Failure Analysis

Sea-going vessels contain a wide variety of bearing types, each with its own peculiar advantages and shortcomings, and all subject to damage, wear, fatigue, corrosion, and plain old age.

Diehl Engineering Company has had a long history of solving marine bearing problems, and will supervise repairs, perform failure analyses, design bearing changes, or select alternative bearings, to improve longevity and reliability.



DIEHL
ENGINEERING
COMPANY

Water-lubricated Sleeve-type Bearings

Diehl Engineering Company will select commercially available water-lubricated bearings for use in shipboard stern and strut bearings, or recommend modifications necessary to suit obvious performance problems of bearings in service.

We will advise on slope boring if there have been failures due to poor load distribution, or when our optical boresights indicate a need in order to prevent failures in future.

Oil-Lubricated, White Metal, Sleeve-Type Bearings

Diehl Engineering Company will design white metal sleeve-type bearings to suit any reduction gear and/or propulsion shafting application, including selection of size, clearance, load, speed, lubricant, and compute the resulting hydrodynamic bearing loss and oil flow. We will inspect this type of bearing for proper installation and load distribution, and for wiping, galling, fatigue, or any other signs of failure.

When a problem bearing is identified, Diehl Engineering will provide the analysis and recommendations for the proper correction to obtain the most effective and economical solution. Our engineers are not afraid to use an old-fashioned scraper to correct faulty contact on white metal bearings, to increase clearances, or to correct gear tooth contact, when there is an obvious need.

Anti-Friction Bearings

Diehl Engineering Company will select commercially available anti-friction bearings to suit any given application, including special needs such as confined space, thrust avoidance, thrust included, radial load and speed, B10 life, oil ingress and egress.

We will provide analysis of failed bearings to determine cause and corrections needed, and recommend an alternative type, or a more reliable substitute of the same type.

Contact Us Today!

If you have questions or would like to learn more about our services, contact us by telephone or email and one of our engineers will be happy to discuss your project, and how we can help you.



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