

A guide to shaft alignment

Achieving a satisfactory shaft alignment is paramount for the safe and reliable operation of a ship during its lifetime. Lloyd's Register EMEA's Technical Investigations provides a comprehensive range of measurement and advisory services to help owners, operators and yards to help to ensure that the best possible results are achieved during the process of shaft alignment.

Modern risk assessments and technical reviews often highlight the propulsion shafting system of a ship as one of its most important assemblies, especially for single screw ships.

Powerful modern engines often feature large-diameter propulsion shafts and relatively stiff shafting systems which can adversely affect main engines and gearboxes.

On the other hand, the more flexible shafting systems used to mitigate these effects can suffer from whirling (lateral bending vibration modes). If whirling frequencies coincide with rotational speeds, catastrophic resonant response results can occur.

It is clear that a delicate balance must be struck during the processes of shaft design, installation

alignment a critical one for owners, operators and yards.

Methods

The four most popular methods of controlling shaft alignment are:

- the gap and sag method
- optical or laser sighting
- jacking
- the strain gauge (bending moment) method.

These methods can be used either singly or in combination.

The **gap and sag method** uses precalculated flange measurements to establish the alignment, to be carried out whilst the flange couplings are disconnected. The advantages of this method include the simplicity of the measuring equipment and the ease of control in both the horizontal and vertical directions. The disadvantages are limited accuracy and the lack of applicability in the service condition. The latter is significant, as it is advisable to check the alignment of the shafting system whilst the machinery is hot.

The **optical sighting or laser sighting method** is more accurate than the gap and sag method. It uses high-quality sighting equipment and is generally used before the shafts are installed and coupled up. Optical sighting is often used to establish the reference line and the position of the engine supports and for determining how to bore the stern tube. Alignment and verification follows by means of the gap and sag method and final alignment control by the jacking and/or strain gauge method.



Optical sighting is one of four popular tried-and-tested methods used, either singly or together, to align shafts.



After the grounding of the Keymar in heavy weather, its owners engaged Lloyd's Register to check the vessels shaft alignment during each of the major stages of the vessels's repair

and alignment in order to avoid costly repairs and delays later in the ship's life. An unexpected shafting system problem, for example, failure of a stern tube bearing due to misalignment, leading to an emergency dry-docking and consequent loss of availability, can cost well in excess of \$250,000 per incident for a small vessel.

More serious problems, for example, involving a bent shaft and replacement for a larger vessel, can cost in excess of \$1 million.

The risk of lost earnings and the potential threat to the safety of the ship make the issue of shaft

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John Piotrowski



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Shaft Alignment Guide Electric Power Research Institute,1999 *Shaft Alignment Handbook, Third Edition* John Piotrowski,2006-11-02 Rotating machinery is the heart of many industrial operations but many engineers and technicians perform shaft alignment by guesswork or with limited knowledge of the tools and methods available to accurately and effectively align their machinery Two decades ago John Piotrowski conferred upon the field an unprecedented tool the first edition of the Shaft Alignment Handbook Two editions later this bestselling handbook is still the most trusted and widely embraced guide in the field The third edition was reorganized updated and expanded to be more convenient intuitive and to reflect the latest developments in the area Dedicated chapters now discuss the basics of alignment modeling each of the five basic alignment methods and electro optic methods Significant new material reflects recent findings on detecting misalignment machinery movement from offline to running conditions multiple element drive trains and specific information on virtually every type of rotating machinery in existence Entirely new chapters explore bore and parallel alignment Providing detailed guidance based on years of hands on experience the Shaft Alignment Handbook Third Edition is a practical tool to help avoid costly shutdowns dangerous failures and early replacements *Basic Shaft Alignment Workbook* John Piotrowski,2012-09-12 **Shaft Alignment Methodology, Part 3** ,2021 *Shaft Alignment on Ships and Its Problems* C. Vlachiotis,1972 **Marine Shaft Alignment Calculations** John B. Woodward,1984 **Shaft Alignment and Couplings** ,2018 *Shaft Alignment 2* ,2016 *Shaft Alignment Methods with Strain Gages and Load Cells* Robert B. Grant,Society of Naval Architects and Marine Engineers,1978 **Basic Shaft Alignment Workbook** ,1991

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