

LASER ALIGNMENT SOLUTION



Using Wärtsilä laser solution, any vertical or horizontal misalignment can be detected without dismantling shafts, even while the vessel is afloat. This service is extremely useful in bedplate, engine block, line bore and crankshaft alignment on the engines.

Laser alignment system can be used for straightness measurement of all types of rotating equipment on board a ship:

- Main engines and gears box
- Shaft lines and propeller
- Auxiliary engines

- Shaft generator sets
- Pumps

Wärtsilä, Gyro laser alignment system offers

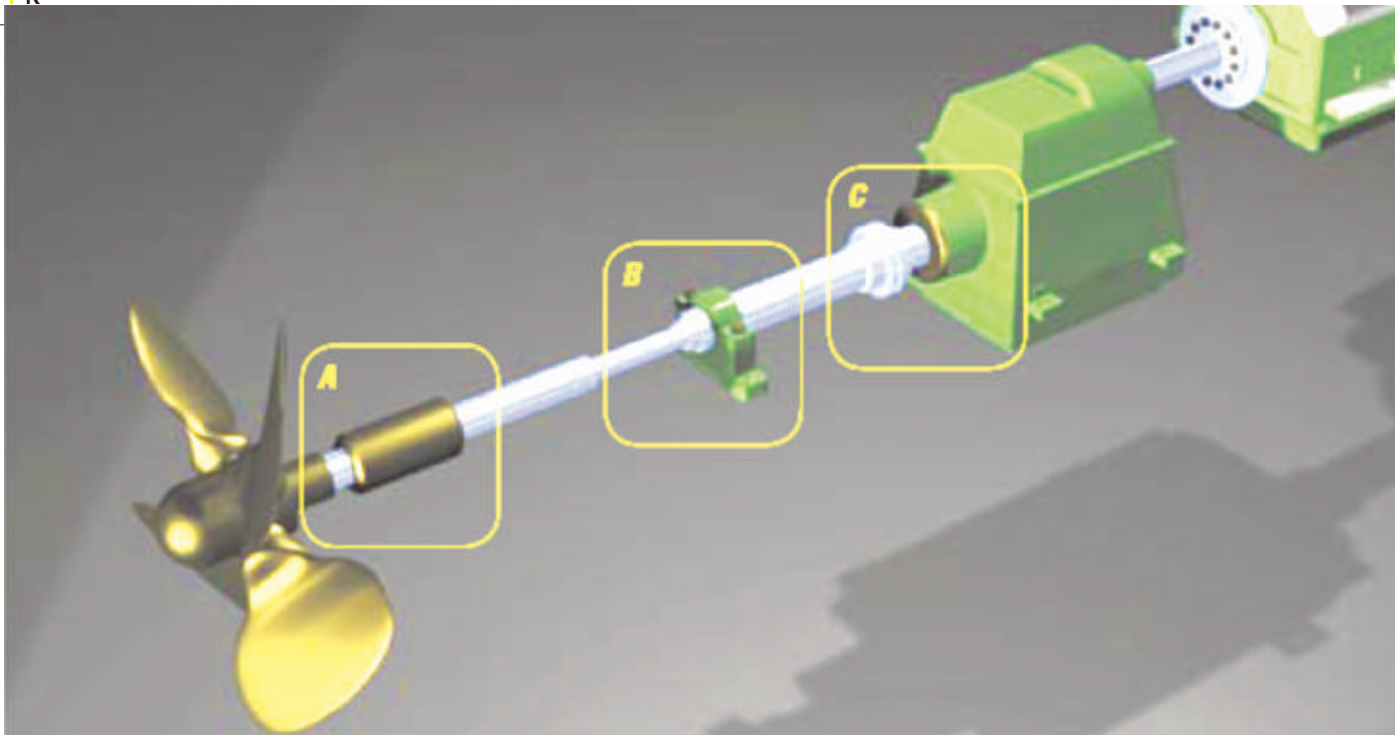
- Fast and accurate measurement of the centre line
- Centre line is plotted
- Shaft is realigned
- Confirmation of straightness and issuing final report

The propulsion shafting alignment process consists of design, analysis and

the alignment procedure and measurements. The alignment procedure is the executable part of the process which is performed in accordance with the requirements defined by alignment designer.

- Sighting (Bore Sighting) by laser optical instrument
- Engine bed plate straightness
- Gap and Sag
- Coupling alignment
- Alignment verification





BENEFITS

- Increased operating time
- Increased productivity
- Decreased downtime
- Vertical and horizontal motors
- Provide printouts and live visual displays
- Detailed specifications and tolerances for alignment
- Fast and accurate measurement.

FEATURES

- Useful to avoid damage to vessels before starting vessel in service
- Realignment of the shaft lines in a couple of hours
- In contrast to traditional methods such as Piano wires or gap and sag methods, this technology provides more accurate measurements and data collections

High precision on rotating machinery alignment work has always been a natural part of conversions and re-engineering in our ship services workshop. Therefore, we can guarantee our know-how in this field.

A group of service mechanics, specially trained in laser measurement and alignment, travel on short notice for minor and major tasks. They have been thoroughly trained in measurement theory and practical use of the advanced equipment.

State-of-art laser equipment is used for accurate and fast alignment.

Some of our customers to whom we have been providing laser alignment solutions are:

- Jindal Kamal
- L&T Shipyard
- ABG Progress
- Roll Dock Sun
- AMQ 106
- Malaviya 27
- Malaviya 25



HIGH PRECISION ALIGNMENT OF MAIN ENGINE



PUMP ALIGNMENT

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