

Wärtsilä Portable Condition Based Monitoring System

Measure alignment in one voyage

PRODUCT DATASHEET



Our state-of-the-art portable system accurately measures and records real dynamic data to determine true alignment. And it can be done in just one voyage.

EASY ALIGNMENT CHECKS

It's important not to let alignment on vessels go unchecked. Without regular inspection and realignment, it could lead to misaligned rotating equipment which in turn leads to premature wear, breakdown and extensive component failure. Damage to engines, shafts, struts and hulls is the last thing you want for your vessel. With the Wärtsilä Portable Condition Based Monitoring System, this is something you won't have to face.

MEASURING FROM PORT TO PORT

Our alignment experts have developed a compact, portable tool that can measure and monitor shaft alignment while your vessel is in operation. It's small enough to fit in a suitcase and has the ability to identify any root causes of abnormalities experienced in operation, including leaking seals, high vibrations and prematurely worn or overheated bearings. It is all done in one voyage, from the moment you leave port until you arrive at the next. All data collected is analysed and you'll be presented with the data and recommended actions.



Compact, accurate and designed to help reduce risk

Wärtsilä Portable Condition Based Monitoring System

FEATURES	ADVANTAGES	BENEFITS
Compact size.	Easy to install.	Can gather real-time results, fast.
Insightful data monitoring software.	Accurate, real life measurements with printouts and live visual displays.	Determines true alignment in actual conditions.
Advanced analysis by our experts.	Alignment details delivered to you with follow-on instructions.	Information can be used to reduce the risk of failures and breakdowns, increase component lifetimes and increase vessel uptime, operating time and productivity.

HOW DOES IT WORK?

- If you suspect any alignment issues, describe them to our alignment team and provide any existing drawings and calculations.
- We will prepare your vessel with simple steel frames to hold the sensors in predetermined locations. This can be carried out by your crew following instruction from the Wärtsilä alignment team.
- The Wärtsilä Portable Condition Based Monitoring System is shipped and can be set up by the crew. As standard, one of our engineers will come to guarantee correct installation.
- All equipment remains onboard and begins to monitor the shaft line, collecting the data for your next voyage.
- After one journey, the Wärtsilä Portable Condition Based Monitoring System is packed up by the crew and returned to our alignment team for expert analysis. You will receive a full report of your alignment, including any recommended actions to take.



The Wärtsilä alignment and measurement services team

Our specialist team is filled with industry leading experts. They have pioneered techniques and developed patented tools and software to ensure perfect alignment. While the Wärtsilä alignment and measurement services team specialise in the diagnostics and realignment of propulsion systems, our expertise has been sought after in many industries, including automotive suppliers and universities. The expertise of our specialists can help improve the operational life and productivity of your vessel.

An industry leader in shaft line components Wärtsilä Shaft Line Solutions delivers a portfolio of end-to-end services and integrated solutions for the marine markets that builds on our core values: lifecycle efficiency, risk reduction, environmental leadership and design excellence. As an original equipment manufacturer operating in 75 countries, we have the capabilities to support customers on a global scale, and remain committed to providing in-country and round-the-clock expertise.

[wartsila.com/shaft-line-solutions](https://www.wartsila.com/shaft-line-solutions)

WÄRTSILÄ® is a registered trademark. Copyright © 2020 Wärtsilä Corporation. Specifications are subject to change without prior notice.

08 / 2020

