

Global Ship Condition Monitoring Tool Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ship Condition Monitoring Tool market size was valued at US\$ 1375 million in 2025 and is forecast to a readjusted size of US\$ 2762 million by 2032 with a CAGR of 10.3% during review period.

A Ship Condition Monitoring Tool is a digital operations and maintenance solution designed for shipowners, ship managers, and technical teams. In practice, it is typically centered on software and connected with onboard signal acquisition, inspection records, trend analytics, alarm rules, and shore-side collaboration functions. Its value lies not merely in displaying data, but in creating a continuous decision framework around hull integrity and vessel condition: identifying, recording, assessing, and tracking coating degradation, corrosion, cracks, deformation, buckling, efficiency deviations, and abnormal operating patterns, then linking those outputs to maintenance planning, drydock decisions, compliance reporting, and commercial optimization. In today's market, such tools have evolved from single-point monitoring applications into integrated decision systems spanning shipboard, shoreside, and cloud environments.

Under the prevailing commercial model, ship condition monitoring tools typically deliver a gross margin in the 45%-70% range. Asset-light offerings built mainly on subscriptions, licenses, software maintenance, and remote support usually sit at the higher end, while integrated packages that include onboard data-acquisition hardware, deployment, model configuration, and ongoing delivery services tend to be lower. Upstream, the value chain includes sensors, ship automation and control systems, edge data-acquisition devices, satellite communications, cybersecurity, cloud infrastructure, and databases. Midstream covers data integration, condition diagnosis, dashboards,

alarm logic, compliance reporting, maintenance workflows, and expert support services. Downstream demand comes from commercial shipowners, ship managers, offshore and specialist-vessel operators, energy transportation fleets, and multi-vessel operators seeking tighter drydock, efficiency, and compliance control.

Market Development Opportunities & Main Driving Factors

Shipping is moving decisively from experience-based management to data-driven management, creating a high-value growth window for ship condition monitoring tools. IMO's EEXI and CII requirements took effect in 2023, with the first CII ratings emerging in 2024; the EU's MRV framework has also expanded to include CH₄ and N₂O from 2024 and widened coverage for additional vessel categories from 2025. As a result, shipowners are increasingly required to manage hull resistance, fuel efficiency, operating condition, and emissions data within one unified framework. For operators, these tools are no longer just technical software purchases; they are becoming operating infrastructure that supports cost reduction, decarbonization, efficiency, and corporate reputation simultaneously.

Market Challenges, Risks, & Restraints

The core challenge is that this is not a simple software market; it is a systems market deeply tied to regulatory pacing, fleet complexity, and execution capability. As MRV and carbon-related compliance boundaries continue to expand, the requirements for data consistency, verification, and cross-fleet execution also rise. At the same time, leading shipping companies have acknowledged in their annual reporting that maritime decarbonization remains dependent on global fuel regulation, external conditions, and broader uncertainty. That shifts competition away from interface design alone and toward model credibility, sustained delivery capability, compliance responsiveness, and the ability to prove long-term return on investment.

Downstream Demand Trends

Downstream buying behavior is evolving rapidly. Customers are no longer satisfied with standalone alarms or fragmented reports; they increasingly prefer closed-loop platforms that combine onboard monitoring, shore-side collaboration, energy-efficiency management, maintenance planning, and emissions management. In its 2025 annual-report messaging and climate transition narrative, Maersk continued to emphasize network and asset efficiency, voyage optimization, and fleet retrofitting, while MOL's 2025 report highlighted the use of collected data, AI, and digital tools to improve both

safety and operating efficiency. Going forward, the most attractive solutions will be platform-based products that increase condition transparency at the vessel level while also amplifying value across the fleet.

This report is a detailed and comprehensive analysis for global Ship Condition Monitoring Tool market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ship Condition Monitoring Tool market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Ship Condition Monitoring Tool market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Ship Condition Monitoring Tool market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Ship Condition Monitoring Tool market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Ship Condition Monitoring Tool

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Ship Condition Monitoring Tool market based on the following parameters - company overview, revenue, gross margin, product

portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DNV, Kongsberg Maritime, Wärtsilä, ABB, NAPA, Light Structures, WISE Group, ROUVARI OY, Ascenz Marorka, SKF Marine, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Ship Condition Monitoring Tool market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Cloud-based

On-Premises

Hybrid

Market segment by Interoperability

Standard Protocol Systems

Proprietary Systems

Market segment by Technical Depth

Alarm-based Monitoring

Trend-based Monitoring

Diagnostic Monitoring

Predictive Monitoring

Digital Twin-based Monitoring

Market segment by Commercial Model

OEM Original Software

Third-party Independent Platforms

Others

Market segment by Application

Civilian Ships

Military Ships

Market segment by players, this report covers

DNV

Kongsberg Maritime

Wärtsilä

ABB

NAPA

Light Structures

WISE Group

ROUVARI OY

Ascenz Marorka

SKF Marine

Jotun

ZeroNorth

Vesselity Maritime Analytics

Weir-Jones Engineering

OrbitMI

MariApps Marine Solutions

SPM Marine & Offshore

BES Mimic

Pole Star

Shipln

Hangzhou Yagena Technology

Shanghai Best Blue Engineering

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Ship Condition Monitoring Tool product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Ship Condition Monitoring Tool, with revenue, gross margin, and global market share of Ship Condition Monitoring Tool from 2021 to 2026.

Chapter 3, the Ship Condition Monitoring Tool competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Ship Condition Monitoring Tool market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Ship Condition Monitoring Tool.

Chapter 13, to describe Ship Condition Monitoring Tool research findings and conclusion.

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