

# **Marine Engines Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Stroke (Four Stroke, Two Stroke and Others), By Capacity (Up to 1,000 HP, 1,001–5,000 HP, 5,001–10,000 HP, 10,001–20,000 HP and Above 20,000 HP), By Fuel Type (Heavy Fuel Oil, Intermediate Fuel Oil and Others), By Ship Type (Bulk Carriers, General Cargo Ships, Container Ships, Ferries & Passenger Ships, Oil Tankers and Others), By Region, By Competition Forecast & Opportunities, 2018-2028**

<https://marketpublishers.com/r/M3622E586740EN.html>

Date: October 2023

Pages: 180

Price: US\$ 4,900.00 (Single User License)

ID: M3622E586740EN

## **Abstracts**

The Global Marine Engines Market was valued at USD 13.49 billion in 2022 and is growing at a CAGR of 3.16% during the forecast period. The increasing seaborne trade in emerging economies, driven by the growth of the shipping industry, will have a positive impact on the business landscape. Technological advancements and product design, along with the shift towards low sulphur fuel and government regulations promoting green fuel adoption, will drive the demand for engines supporting LSFO, LNG, and hybrid fuel.

### **Key Market Drivers**

#### **Growing Global Trade and Maritime Transport**

One of the key factors driving the global marine engines market is the sustained growth in global trade and maritime transport. The majority of the world's goods are transported

by sea, making shipping a critical component of the global economy. This reliance on maritime transport has resulted in an increasing demand for marine engines to power diverse types of vessels, including container ships, bulk carriers, tankers, and cruise liners.

The expansion of international trade, propelled by globalization, has led to larger volumes of goods being shipped across the oceans. Consequently, there has been a surge in the construction of larger vessels that necessitate more powerful and efficient marine engines. Shipping companies and maritime operators are constantly searching for engines that offer improved fuel efficiency, reduced emissions, and enhanced reliability to meet the demands of global trade.

Moreover, the growth of e-commerce and the need for timely delivery of goods have further stimulated the demand for faster and more efficient vessels. This has compelled the marine engines market to develop advanced propulsion systems capable of achieving higher speeds and superior maneuverability.

#### Stringent Environmental Regulations and Emission Reduction

Environmental concerns and the imperative to reduce greenhouse gas emissions have emerged as significant catalysts in the global marine engines market. International regulations, particularly those established by the International Maritime Organization (IMO), have imposed increasingly stringent limits on ship emissions, encompassing sulfur oxides (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), and particulate matter.

In response to these regulations, shipowners and operators are progressively embracing cleaner and more eco-friendly marine engines. This drive has fostered the advancement of technologies like Selective Catalytic Reduction (SCR) and exhaust gas cleaning systems (scrubbers), which effectively mitigate harmful emissions. Moreover, the adoption of alternative fuels such as LNG (liquefied natural gas) and the exploration of hydrogen and ammonia as potential marine fuels are reshaping the marine engines market.

Furthermore, the establishment of emission control areas (ECAs) in various regions has spurred the demand for engines capable of operating efficiently within these designated low-emission zones. Consequently, manufacturers are actively investing in research and development endeavors to produce engines that conform to these stringent environmental standards while ensuring optimal performance.

## Increasing Demand for Fuel Efficiency and Operational Cost Savings

Fuel efficiency and operational cost savings serve as significant drivers in the global marine engines market. Shipping companies consistently seek opportunities to decrease fuel consumption and operational expenses, ultimately enhancing profitability. Marine engines play a pivotal role in achieving these objectives.

Modern marine engines are meticulously engineered for enhanced fuel efficiency, incorporating advanced technologies like electronic control systems, improved combustion processes, and optimized propeller designs. These innovative advancements result in reduced fuel consumption and lower long-term operating costs.

The substantial cost of marine fuels, particularly during periods of volatile oil prices, encourages the adoption of fuel-efficient engines. Shipowners are actively exploring the utilization of alternative fuels, which not only offer cost-effectiveness but also promote environmental sustainability. For instance, the transition to LNG or dual-fuel engines can deliver substantial fuel savings and aid in compliance with emission regulations.

Furthermore, the marine engines market is progressively embracing predictive maintenance and condition-based monitoring. These cutting-edge technologies empower operators to optimize engine performance, minimize downtime, and reduce maintenance costs, thereby generating greater operational cost savings.

In conclusion, the growth of global trade and maritime transport, along with the imperative to comply with environmental regulations, drives the global marine engines market. Manufacturers in this industry continuously innovate, developing cleaner, more efficient, and technologically advanced marine engines to meet the evolving demands of the shipping sector.

## Key Market Challenges

### Stringent Environmental Regulations and Compliance

One of the primary challenges confronting the global marine engines market is the stringent environmental regulations and the associated compliance requirements. International organizations, such as the International Maritime Organization (IMO), have increasingly imposed rigorous emissions standards on vessels to minimize their environmental impact. This includes limitations on sulfur oxides (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), and particulate matter emissions.

### Emission Reduction Technologies:

Manufacturers must invest in research and development to design marine engines that meet or surpass these stringent emissions standards. This often involves incorporating emission reduction technologies like Selective Catalytic Reduction (SCR) and exhaust gas cleaning systems (scrubbers), which introduce complexity and additional costs to engine systems.

### Alternative Fuels:

The development and adoption of alternative fuels such as liquefied natural gas (LNG) and hydrogen present both opportunities and challenges. While these fuels produce lower emissions, they require specialized engine designs and infrastructure for storage and delivery.

### Retrofitting Existing Vessels:

Retrofitting older vessels with compliant engines and emission control systems can be technically demanding and expensive, particularly for smaller shipping companies and operators with limited resources.

### Fluctuating Fuel Prices and Energy Transition

The volatility of fuel prices and the ongoing energy transition pose significant challenges to the global marine engines market:

#### Fuel Price Uncertainty:

The marine industry heavily relies on conventional fuels like heavy fuel oil (HFO) and marine diesel oil (MDO). Fluctuations in oil prices can substantially impact the operating costs of vessels, influencing the decision-making process for engine selection. Sudden spikes in fuel prices can strain profitability, especially for smaller shipping companies.

#### Alternative Fuels:

The shift towards cleaner, alternative fuels introduces challenges related to infrastructure development and fuel availability. Investing in LNG bunkering infrastructure, for instance, requires significant capital and regulatory support.

## Hydrogen and Ammonia:

While hydrogen and ammonia are regarded as promising green fuels for the maritime sector, their widespread adoption faces challenges such as safe storage and handling, infrastructure development, and the design of engines compatible with these fuels.

## Technological Advancements and Competitiveness

Technological advancements and competition within the marine engines market present challenges for manufacturers and operators:

### Rapid Technological Evolution:

The marine engines market is characterized by fast-paced technological advancements. Engine manufacturers must consistently invest in research and development to stay competitive and meet market demands for improved efficiency, reduced emissions, and reliability.

### Innovation Costs:

Developing and integrating innovative technologies into marine engines can incur significant expenses. Manufacturers must strike a balance between innovation and affordability to meet customer needs.

### Global Competition:

The global nature of the marine engines market means that manufacturers face tough competition from established players and emerging market entrants. Sustaining a competitive advantage necessitates continuous improvement and differentiation in terms of performance, efficiency, and service. In summary, the global marine engines market encounters substantial challenges related to environmental regulations and compliance, fuel price volatility and energy transition, and the imperative to remain technologically competitive. Effectively navigating these challenges demands innovation, collaboration, and strategic planning to ensure the market remains adaptable and responsive to the evolving needs of the maritime industry.

## Key Market Trends

## Growing Demand for Fuel-efficient Marine Engines

In recent years, a significant trend in the global marine engines market has been the growing demand for fuel-efficient engines. As the world grapples with environmental concerns and stricter regulations on emissions from marine vessels, shipowners and operators are actively seeking engines that can reduce fuel consumption and minimize their environmental impact.

The pursuit of fuel efficiency has spurred substantial innovation in marine engine technology. Manufacturers are heavily investing in research and development to create engines that are not only powerful but also highly efficient. This trend has led to the emergence of advanced propulsion systems, such as hybrid and LNG-powered engines, offering substantial fuel savings compared to traditional diesel engines.

Moreover, digitalization and the integration of smart technologies are playing a crucial role in optimizing engine performance. Ship operators can now monitor and control engine parameters in real-time, enabling data-driven decisions to enhance fuel efficiency. Predictive maintenance systems also aid in preventing unexpected breakdowns, reducing downtime, and further improving fuel economy.

Fuel efficiency is not just about reducing operational costs; it also involves complying with environmental regulations. International organizations like the International Maritime Organization (IMO) have established stringent emission limits for vessels. To meet these regulations, shipowners are increasingly investing in engines that not only comply with but surpass these emission standards. Consequently, manufacturers are focusing on developing engines that emit fewer pollutants, including nitrogen oxides (NOx) and sulfur oxides (SOx), contributing to cleaner oceans and air.

## Adoption of Alternative Fuels and Sustainable Technologies

Another significant trend observed in the global marine engines market is the increasing adoption of alternative fuels and sustainable technologies. As the maritime industry faces mounting pressure to minimize its carbon footprint, there is a growing inclination towards cleaner and more sustainable energy sources for marine propulsion.

A notable development in this domain is the utilization of liquefied natural gas (LNG) as a marine fuel. LNG-powered engines exhibit significantly lower emissions of NOx, SOx, and particulate matter compared to conventional diesel engines. This has rendered LNG an appealing choice for shipowners aiming to adhere to strict emission regulations

while mitigating their environmental impact.

Hydrogen fuel cells are also gaining prominence as a potential clean energy source for marine propulsion. These fuel cells generate electricity through a chemical reaction between hydrogen and oxygen, emitting solely water vapor as a byproduct. Although hydrogen fuel cell technology is still in its nascent stage in the maritime sector, it holds promise for realizing zero-emission shipping in the future.

Furthermore, the incorporation of renewable energy sources, such as wind-assisted propulsion and solar panels, is increasingly prevalent on vessels. These technologies not only help reduce reliance on fossil fuels but also contribute to the overall sustainability of marine operations.

## Segmental Insights

### Stroke Insights

The Two Stroke segment holds a significant market share in the Global Marine Engines Market. The market for two-stroke engines has witnessed a surge in interest towards alternative fuels like liquefied natural gas (LNG) and methanol. Manufacturers that offer dual-fuel engines capable of running on both traditional marine diesel and alternative fuels have the potential to gain a competitive edge. Furthermore, the development of infrastructure for alternative fuels, including LNG bunkering facilities, presents lucrative opportunities for market players.

Digitalization and the integration of Internet of Things (IoT) technologies have revolutionized the monitoring and maintenance of two-stroke engines in real-time. Companies that provide digital solutions for optimizing engine performance, predictive maintenance, and remote diagnostics can offer significant value to customers and strengthen their market position.

While two-stroke engines have traditionally been associated with larger vessels, there is an untapped potential to diversify into smaller vessel segments such as ferries, offshore support vessels, and even certain segments of the leisure marine market. Companies that adapt their two-stroke engine technology to meet the specific needs of these segments can significantly expand their market reach.

In conclusion, the two-stroke segment of the global marine engines market is undergoing substantial changes driven by emissions regulations, technological

advancements, and competition from alternative engine types. Manufacturers in this segment must adapt to these evolving market dynamics by emphasizing sustainability, innovation, and market diversification to remain competitive and seize growth opportunities.

### Capacity Insights

The Above 20,000 HP segment holds a significant market share in the Global Marine Engines Market. Numerous naval vessels, including aircraft carriers, destroyers, and amphibious assault ships, are equipped with engines surpassing 20,000 HP. The defense sector presents a stable and long-term market for high-capacity marine engines. Manufacturers in this sector often face the need to meet stringent military specifications and security requirements.

Similar to other segments of the marine engines market, the above 20,000 HP segment encounters mounting pressure to adhere to strict emissions regulations, including those pertaining to nitrogen oxide (NOx) and sulfur oxide (SOx) emissions. Manufacturers must invest in technologies such as selective catalytic reduction (SCR) and exhaust gas cleaning systems (scrubbers) to ensure compliance. Moreover, there is a growing interest in alternative fuels, such as LNG and hydrogen, to reduce emissions in this high-power segment.

The integration of digital technologies, including real-time monitoring, predictive maintenance, and remote diagnostics, is gaining significance. Shipowners and operators of high-capacity engine vessels prioritize maximum uptime and minimal downtime, making digital solutions a valuable asset.

In conclusion, the above 20,000 HP segment of the global marine engines market is characterized by its specialized and high-performance nature. Manufacturers must remain adaptable to evolving environmental regulations, technological advancements, and market dynamics. Opportunities lie in catering to the specific demands of offshore, naval, and cruise industries, while also providing advanced, sustainable, and digitally integrated solutions to fulfill the needs of these high-powered marine applications.

### Regional Insights

The Asia Pacific region is expected to dominate the market during the forecast period. The Asia Pacific region plays a crucial role in the global marine engines market, owing to its expansive coastline, thriving maritime trade, and escalating demand for marine



transportation. With major economies such as China, Japan, South Korea, and Singapore acting as key players in international shipping, the region has emerged as a prominent hub of global trade. This robust maritime trade fuels the demand for reliable and efficient propulsion systems as vessels seek optimal performance. As the economies in the region continue to flourish, the necessity for marine transportation of goods and resources is expected to soar, further driving the demand for marine engines.

Furthermore, as global environmental concerns intensify, international bodies like the International Maritime Organization (IMO) are imposing stricter emissions regulations. Recognizing this trend, countries in the Asia Pacific region are implementing or planning to enforce stringent emissions standards for vessels. This shift towards cleaner and more sustainable marine transportation has stimulated the adoption of environmentally friendly marine engines, including LNG-powered and hybrid systems. Manufacturers in the region are actively engaged in developing such engines to meet these evolving demands.

The Asia Pacific region stands at the forefront of technological innovation in the marine engines sector. Renowned manufacturers such as Japan's Mitsubishi Heavy Industries, South Korea's Hyundai Heavy Industries, and China's Wärtsilä Qiyao Diesel Company are making substantial investments in research and development to produce cutting-edge marine engines. These innovations encompass advanced propulsion systems, digitalization, and the integration of smart technologies to enhance engine performance, improve fuel efficiency, and reduce maintenance costs.

### Key Market Players

Caterpillar Inc.

Cummins Inc.

Hyundai Heavy Industries Co., Ltd

MAN Energy Solutions

DEUTZ AG

Mitsubishi Heavy Industries Ltd

Rolls Royce plc

Volvo Group

GE Transportation

Yanmar Holdings Co., Ltd

### Report Scope:

In this report, the Global Marine Engines Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Global Marine Engines Market, By Stroke:

Four Stroke

Two Stroke

Others

#### Global Marine Engines Market, By Capacity:

Up to 1,000 HP

1,001–5,000 HP

5,001–10,000 HP

10,001–20,000 HP

Above 20,000 HP

#### Global Marine Engines Market, By Fuel Type:

Heavy Fuel Oil

Intermediate Fuel Oil

Others

Global Marine Engines Market, By Ship Type:

Bulk Carriers

General Cargo Ships

Container Ships

Ferries & Passenger Ships

Oil Tankers

Others

Global Marine Engines Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Marine Engines Market.

## Available Customizations:

Global Marine Engines Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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