

# **Marine Low-Speed Diesel Engine Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Piston Engine, Cylinder Engine), By Application (Cargo Ship, Cruise Ship, Other), By Region & Competition, 2021-2031F**

<https://marketpublishers.com/r/M6FACB6512F9EN.html>

Date: May 2026

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: M6FACB6512F9EN

## **Abstracts**

The Global Marine Low-Speed Diesel Engine Market is anticipated to grow from USD 313.27 Million in 2025 to USD 533.54 Million by 2031, exhibiting a Compound Annual Growth Rate (CAGR) of 9.28%. This market focuses on developing and manufacturing large two-stroke internal combustion engines that operate below 300 revolutions per minute. These engines are primarily used for propulsion in heavy merchant vessels like bulk carriers, oil tankers, and container ships, due to their excellent thermal efficiency and direct-drive capabilities. The market's fundamental driver is the sustained increase in international seaborne trade, which demands continuous fleet expansion and new vessel deliveries to manage growing transport volumes. BIMCO forecasts global ship demand growth between 4.5% and 5.5% in 2025, driven by resilient cargo volumes in non-North American trade lanes.

## **Market Driver**

Stringent IMO environmental regulations are fundamentally reshaping the market by accelerating the adoption of dual-fuel technologies for compliance. Shipowners are increasingly compelled to replace older, carbon-intensive tonnage with modern vessels capable of utilizing alternative fuels such as LNG, methanol, and ammonia to meet tightening EEXI and CII standards. This regulatory pressure has caused a structural shift in propulsion requirements, moving demand away from conventional heavy fuel oil units towards advanced low-speed engines designed for emission abatement. DNV's January 2025 'Alternative Fuels Insight' update reported 515 alternative-fueled vessel

orders in 2024, a 38% increase year-over-year, confirming regulatory compliance as the primary determinant in engine selection for newbuilding projects. Concurrently, the expansion of international seaborne trade volumes continues to drive robust contracting activity for large-tonnage merchant vessels, directly sustaining demand for prime movers. As global supply chains recalibrate, the requirement for reliable, high-efficiency propulsion systems for container ships and bulk carriers has intensified, leading to historic delivery volumes. According to BIMCO in December 2024, new container ship deliveries were projected to add a record 2.9 million TEU to the fleet in 2024. This fleet expansion correlates with significant industrial output in major shipbuilding hubs; for example, the China Association of the National Shipbuilding Industry reported in February 2025 that Chinese shipyards secured 113.05 million deadweight tonnes of new orders in 2024, accounting for over 74% of the global market share.

## **Market Challenge**

Escalating regulatory pressure to reduce the carbon intensity of international shipping creates a complex environment, significantly impeding growth in the Global Marine Low-Speed Diesel Engine Market. Shipowners face stringent environmental mandates that require substantial capital investments in unproven technologies or expensive emission abatement systems. This regulatory ambiguity regarding future fuel standards and compliance pathways often prompts fleet operators to adopt a 'wait-and-see' approach, thereby delaying decisions on fleet renewal and expansion. The apprehension of investing in conventional diesel propulsion units that might become stranded assets or face punitive levies effectively stalls new contracting activity. This hesitation in the maritime sector has resulted in a demonstrable contraction in new vessel order volumes, directly reducing the demand for primary propulsion engines. DNV reported that global newbuild orders fell to 2,403 vessels in 2025, a significant decrease from 4,405 orders in the previous year. This sharp decline illustrates how uncertainty surrounding environmental regulations and fuel choices is causing a strategic pause in shipbuilding, thereby limiting immediate revenue opportunities for low-speed diesel engine manufacturers.

## **Market Trends**

The expansion of aftermarket engine retrofitting services has emerged as a crucial strategy for fleet operators seeking to extend the operational life of existing tonnage while meeting tightening carbon intensity standards. Rather than incurring the high capital costs of newbuilding programs, shipowners are increasingly contracting engine

manufacturers to convert conventional heavy fuel oil units into dual-fuel systems capable of utilizing methanol or LNG. This trend is exemplified by successful large-scale conversion projects that validate the technical feasibility of modifying in-service prime movers for deep-sea routes. MAN Energy Solutions, in December 2024, announced the successful main engine conversion of the 15,000 TEU Maersk Halifax to methanol dual-fuel operation, followed by a preorder to retrofit an additional 10 vessels. Concurrently, the commercial advancement of ammonia-fueled two-stroke engine architectures has transitioned from prototype testing to confirmed order intake, signaling the fuel's viability for deep-sea propulsion. Manufacturers have overcome significant technical hurdles related to ammonia's combustion characteristics and toxicity, leading to the release of commercially available engine platforms specifically optimized for gas carriers and bulk vessels. This technological maturity is driving early adoption among specialized fleet segments that require zero-carbon potential to future-proof against long-term regulatory targets. DNV's January 2025 'Alternative Fuels Insight' update reported a total of 27 orders for ammonia-fueled vessels throughout 2024, marking a significant increase from the single-digit orders recorded in the previous year.

### **Key Market Players**

Japan Engine Corp.

Hefei RongAn Power Machinery Co., Ltd..

Jiangsu Antai Power Machinery Co., Ltd..

YICHANG MARINE DIESEL ENGINE CO. LTD.

Zhenjiang Yungpu Heavy Machinery Co., Ltd.

Zhongji Hitachi Zosen Diesel Engine Co. Ltd.

The Hanshin Diesel Works, Ltd..

HD Hyundai Marine Solution Co., Ltd.

### **Report Scope**

In this report, the Global Marine Low-Speed Diesel Engine Market has been segmented

into the following categories, in addition to the industry trends which have also been detailed below:

#### Marine Low-Speed Diesel Engine Market, By Type

- Piston Engine

- Cylinder Engine

#### Marine Low-Speed Diesel Engine Market, By Application

- Cargo Ship

- Cruise Ship

- Other

#### Marine Low-Speed Diesel Engine 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 Low-Speed Diesel Engine Market.

## Available Customizations:

Global Marine Low-Speed Diesel Engine Market report with the given market data, TechSci 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).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL MARINE LOW-SPEED DIESEL ENGINE MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Piston Engine, Cylinder Engine)
  - 5.2.2. By Application (Cargo Ship, Cruise Ship, Other)
  - 5.2.3. By Region
  - 5.2.4. By Company (2025)

### 5.3. Market Map

## **6. NORTH AMERICA MARINE LOW-SPEED DIESEL ENGINE MARKET OUTLOOK**

### 6.1. Market Size & Forecast

#### 6.1.1. By Value

### 6.2. Market Share & Forecast

#### 6.2.1. By Type

#### 6.2.2. By Application

#### 6.2.3. By Country

### 6.3. North America: Country Analysis

#### 6.3.1. United States Marine Low-Speed Diesel Engine Market Outlook

##### 6.3.1.1. Market Size & Forecast

###### 6.3.1.1.1. By Value

##### 6.3.1.2. Market Share & Forecast

###### 6.3.1.2.1. By Type

###### 6.3.1.2.2. By Application

#### 6.3.2. Canada Marine Low-Speed Diesel Engine Market Outlook

##### 6.3.2.1. Market Size & Forecast

###### 6.3.2.1.1. By Value

##### 6.3.2.2. Market Share & Forecast

###### 6.3.2.2.1. By Type

###### 6.3.2.2.2. By Application

#### 6.3.3. Mexico Marine Low-Speed Diesel Engine Market Outlook

##### 6.3.3.1. Market Size & Forecast

###### 6.3.3.1.1. By Value

##### 6.3.3.2. Market Share & Forecast

###### 6.3.3.2.1. By Type

###### 6.3.3.2.2. By Application

## **7. EUROPE MARINE LOW-SPEED DIESEL ENGINE MARKET OUTLOOK**

### 7.1. Market Size & Forecast

#### 7.1.1. By Value

### 7.2. Market Share & Forecast

#### 7.2.1. By Type

#### 7.2.2. By Application

#### 7.2.3. By Country

### 7.3. Europe: Country Analysis

### 7.3.1. Germany Marine Low-Speed Diesel Engine Market Outlook

#### 7.3.1.1. Market Size & Forecast

##### 7.3.1.1.1. By Value

#### 7.3.1.2. Market Share & Forecast

##### 7.3.1.2.1. By Type

##### 7.3.1.2.2. By Application

### 7.3.2. France Marine Low-Speed Diesel Engine Market Outlook

#### 7.3.2.1. Market Size & Forecast

##### 7.3.2.1.1. By Value

#### 7.3.2.2. Market Share & Forecast

##### 7.3.2.2.1. By Type

##### 7.3.2.2.2. By Application

### 7.3.3. United Kingdom Marine Low-Speed Diesel Engine Market Outlook

#### 7.3.3.1. Market Size & Forecast

##### 7.3.3.1.1. By Value

#### 7.3.3.2. Market Share & Forecast

##### 7.3.3.2.1. By Type

##### 7.3.3.2.2. By Application

### 7.3.4. Italy Marine Low-Speed Diesel Engine Market Outlook

#### 7.3.4.1. Market Size & Forecast

##### 7.3.4.1.1. By Value

#### 7.3.4.2. Market Share & Forecast

##### 7.3.4.2.1. By Type

##### 7.3.4.2.2. By Application

### 7.3.5. Spain Marine Low-Speed Diesel Engine Market Outlook

#### 7.3.5.1. Market Size & Forecast

##### 7.3.5.1.1. By Value

#### 7.3.5.2. Market Share & Forecast

##### 7.3.5.2.1. By Type

##### 7.3.5.2.2. By Application

## **8. ASIA PACIFIC MARINE LOW-SPEED DIESEL ENGINE MARKET OUTLOOK**

### 8.1. Market Size & Forecast

#### 8.1.1. By Value

### 8.2. Market Share & Forecast

#### 8.2.1. By Type

#### 8.2.2. By Application

#### 8.2.3. By Country

### 8.3. Asia Pacific: Country Analysis

#### 8.3.1. China Marine Low-Speed Diesel Engine Market Outlook

##### 8.3.1.1. Market Size & Forecast

###### 8.3.1.1.1. By Value

##### 8.3.1.2. Market Share & Forecast

###### 8.3.1.2.1. By Type

###### 8.3.1.2.2. By Application

#### 8.3.2. India Marine Low-Speed Diesel Engine Market Outlook

##### 8.3.2.1. Market Size & Forecast

###### 8.3.2.1.1. By Value

##### 8.3.2.2. Market Share & Forecast

###### 8.3.2.2.1. By Type

###### 8.3.2.2.2. By Application

#### 8.3.3. Japan Marine Low-Speed Diesel Engine Market Outlook

##### 8.3.3.1. Market Size & Forecast

###### 8.3.3.1.1. By Value

##### 8.3.3.2. Market Share & Forecast

###### 8.3.3.2.1. By Type

###### 8.3.3.2.2. By Application

#### 8.3.4. South Korea Marine Low-Speed Diesel Engine Market Outlook

##### 8.3.4.1. Market Size & Forecast

###### 8.3.4.1.1. By Value

##### 8.3.4.2. Market Share & Forecast

###### 8.3.4.2.1. By Type

###### 8.3.4.2.2. By Application

#### 8.3.5. Australia Marine Low-Speed Diesel Engine Market Outlook

##### 8.3.5.1. Market Size & Forecast

###### 8.3.5.1.1. By Value

##### 8.3.5.2. Market Share & Forecast

###### 8.3.5.2.1. By Type

###### 8.3.5.2.2. By Application

## **9. MIDDLE EAST & AFRICA MARINE LOW-SPEED DIESEL ENGINE MARKET OUTLOOK**

### 9.1. Market Size & Forecast

#### 9.1.1. By Value

### 9.2. Market Share & Forecast

#### 9.2.1. By Type

- 9.2.2. By Application
- 9.2.3. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Marine Low-Speed Diesel Engine Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Type
      - 9.3.1.2.2. By Application
  - 9.3.2. UAE Marine Low-Speed Diesel Engine Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Type
      - 9.3.2.2.2. By Application
  - 9.3.3. South Africa Marine Low-Speed Diesel Engine Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Type
      - 9.3.3.2.2. By Application

## **10. SOUTH AMERICA MARINE LOW-SPEED DIESEL ENGINE MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Type
  - 10.2.2. By Application
  - 10.2.3. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Marine Low-Speed Diesel Engine Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Type
      - 10.3.1.2.2. By Application
  - 10.3.2. Colombia Marine Low-Speed Diesel Engine Market Outlook
    - 10.3.2.1. Market Size & Forecast

- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
  - 10.3.2.2.1. By Type
  - 10.3.2.2.2. By Application
- 10.3.3. Argentina Marine Low-Speed Diesel Engine Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value
  - 10.3.3.2. Market Share & Forecast
    - 10.3.3.2.1. By Type
    - 10.3.3.2.2. By Application

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. GLOBAL MARINE LOW-SPEED DIESEL ENGINE MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Japan Engine Corp.
  - 15.1.1. Business Overview
  - 15.1.2. Products & Services
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel

#### 15.1.5. SWOT Analysis

15.2. Hefei RongAn Power Machinery Co., Ltd..

15.3. Jiangsu Antai Power Machinery Co., Ltd..

15.4. YICHANG MARINE DIESEL ENGINE CO. LTD.

15.5. Zhenjiang Yungpu Heavy Machinery Co., Ltd.

15.6. Zhongji Hitachi Zosen Diesel Engine Co. Ltd.

15.7. The Hanshin Diesel Works, Ltd..

15.8. HD Hyundai Marine Solution Co., Ltd.

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

## I would like to order

Product name: Marine Low-Speed Diesel Engine Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Piston Engine, Cylinder Engine), By Application (Cargo Ship, Cruise Ship, Other), By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/M6FACB6512F9EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M6FACB6512F9EN.html>