

Diesel Engines Market by Speed (Low, Medium, High), Power Rating (Below 0.5 MW, 0.5-1.0 MW, 1.1-2.0 MW, 2.1-5.0 MW, Above 5.0 MW), End User (Power Generation, Marine, Locomotive, Mining, Oil & Gas, Construction) & Region - Global Forecast to 2028

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Abstracts

The global diesel engines market is estimated to grow from USD 63.9 Billion in 2023 to USD 78.8 Billion by 2028; it is expected to record a CAGR of 4.3% during the forecast period. Increasing rising electricity consumption driving the need to fulfill the growing energy requirements with backup power solutions is expected to boost the market.

“High-Speed engines is projected to be the largest growing segment in the market “

Based on speed, the diesel engine market has been categorized into low, medium, and high. High-speed engines are expected to be the largest segment in the diesel engines market. The high-speed engines include engine speeds of 1200–1800 rpm and above 1800 rpm. The power generation industry is the primary end-user for diesel engines, majorly of high speed, hence expected to drive the growth of this segment.

“Below 0.5 MW followed by 1.1-2.0 MW segment is expected to emerge as the largest segments based on power rating”

The diesel engine market has been categorized based on power rating as below 0.5 MW, 0.5–1 MW, 1.1–2 MW, 2.1–5 MW, and above 5 MW. 1.1–2.0 MW is the second largest diesel engine segment in the diesel engine market. Residential and commercial end users usually prefer low-power options. Medium-power models are generally used in commercial and small-scale industrial applications. Large hospitals, data centers, and commercial facilities also install multiple 1.1–2.0 MW units operating in parallel to

support their large connected loads. Therefore, increased investments in the data center space are expected to contribute to segment growth.

“By End User, the power generation segment is expected to be the fastest growing market during the forecast period.”

Based on end user, the power generation segment is expected to be the fastest-growing segment during the forecast period. Power generation end users require a reliable, uninterrupted power supply to carry out operations without hindrances. Unlike the power generated from conventional power plants, renewable sources are not dispatchable and fluctuate over time. Hence, power plants constructed with diesel engines are the ideal complement to intermittent renewables in the power generation sector.

“North America is expected to be the second fastest-growing region in the diesel engines market.”

North America, after Asia Pacific, is expected to be the second fastest region in the diesel engines market during the forecast period. The market growth in North America can be attributed to the urbanization in the region. Aging infrastructures resulting in power blackouts in the region, lead to economic losses. In a large-scale outage, diesel power engines will likely play a key role as a backup source of electricity generation.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 40%, Tier 2- 35%, and Tier 3- 25%

By Designation: C-Level- 35%, Director Levels- 25%, and Others- 40%

By Region: North America- 5%, Asia Pacific- 60%, Europe- 5%, South America- 5%, Middle East & Africa- 25%

Note: Others include product engineers, product specialists, and engineering leads.

Note: The tiers of the companies are defined on the basis of their total revenues as of 2021. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: The diesel engines market is dominated by many global players that have a wide regional and global presence. The leading players in the diesel engine market are Caterpillar (US), Cummins Inc. (US), Volvo Penta (Sweden), Hyundai Heavy Industries (South Korea), and MAN Energy Solutions (Germany).

Research Coverage:

The report defines, describes, and forecasts the global diesel engine market by speed, power rating, end user, and region. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates in terms of value, and future trends in the diesel engines market.

Key Benefits of Buying the Report

High rate of adoption of power backup solutions driving the need for diesel engines is a major driver for the market.

Product Development/ Innovation: With built-in upgradability and fuel flexibility, Wartsila adds two-stage turbocharging to deliver unprecedented efficiency and power density across a wide operational range for vessels in every segment. It represents the next generation of medium-speed engines. It is designed to set a new benchmark for fuel efficiency and emissions performance and is ready to run on future fuels.

Market Development: Cummins Inc. and Isuzu Motors Limited (Isuzu) announced agreements for a global mid-range diesel powertrain and an advanced engineering collaboration, marking another step forward in the Isuzu Cummins Powertrain Partnership (ICPP). Under this global mid-range diesel collaboration agreement, Cummins provided Isuzu mid-range B6.7 diesel platforms for medium-size trucks to meet global customer needs.

Market Diversification: The power demands of remote sites are met through diesel generators. However, the growing power demand can be met by

deploying hybrid power systems designed according to the individual power requirements of residential and non-residential customers. The hybrid power system combines diesel generators with renewable sources (wind, solar, or both) to ensure a 24*7 power supply to off-grid sites with fewer interruptions.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Caterpillar (US), Cummins Inc. (US), Volvo Penta (Sweden), Hyundai Heavy Industries (South Korea), and MAN Energy Solutions (Germany) among others in the diesel engines market.

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*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

12.2 OTHER COMPANIES

12.2.1 JOHNS MANVILLE (A BERKSHIRE HATHAWAY COMPANY)

TABLE 269 JOHNS MANVILLE: COMPANY OVERVIEW

12.2.2 CENTRAL GLASS CO., LTD.

TABLE 270 CENTRAL GLASS CO., LTD.: COMPANY OVERVIEW

12.2.3 HANGZHOU MINGDA GLASS FIBRE CO., LTD.

TABLE 271 HANGZHOU MINGDA GLASS FIBER CO., LTD.: COMPANY OVERVIEW

12.2.4 NITTO BOSEKI CO., LTD.

TABLE 272 NITTO BOSEKI CO., LTD.: COMPANY OVERVIEW

12.2.5 KROSGLOSS S.A.

TABLE 273 KROSGLOSS S.A.: COMPANY OVERVIEW

12.2.6 SISECAM A.S.

TABLE 274 SISECAM A.S.: COMPANY OVERVIEW

12.2.7 EASTERN INDUSTRIAL COMPANY (EICO)

TABLE 275 EASTERN INDUSTRIAL COMPANY: COMPANY OVERVIEW

12.2.8 JIANGSU JIUDING NEW MATERIAL CO., LTD.

TABLE 276 JIANGSU JIUDING NEW MATERIAL CO., LTD.: COMPANY OVERVIEW

12.2.9 P-D GLASSEIDEN GMBH

TABLE 277 P-D GLASSEIDEN GMBH: COMPANY OVERVIEW

12.2.10 TEXAS FIBERGLASS GROUP

TABLE 278 TEXAS FIBERGLASS GROUP: COMPANY OVERVIEW

12.2.11 TAISHAN FIBERGLASS INC. (CTG)

TABLE 279 TAISHAN FIBERGLASS INC. (CTG): COMPANY OVERVIEW

12.2.12 SODA SANAYII A?

TABLE 280 SODA SANAYII A?.: COMPANY OVERVIEW

12.2.13 KCC CORPORATION

TABLE 281 KCC CORPORATION: COMPANY OVERVIEW

12.2.14 CHONGQING DUJIANG COMPOSITES CO., LTD. (CQFIBERGLASS)

TABLE 282 CHONGQING DUJIANG COMPOSITES CO., LTD. (CQFIBERGLASS):

COMPANY OVERVIEW

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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