

# Global Rocket Engine Market Research Report 2026(Status and Outlook)

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## Abstracts

A rocket engine is a propulsion system that generates thrust by expelling high-temperature, high-pressure gases produced from the chemical reaction between fuel and an oxidizer. It operates in low-pressure or vacuum environments, such as outer space, and is the core power unit of a rocket, enabling it to overcome Earth's gravity and reach the desired orbit or velocity. The global rocket engine market is expected to grow steadily from 2025 to 2030. The core drivers of this growth include the explosive growth of commercial space activities, the accelerated deployment of satellite Internet constellations, the increase in deep space exploration missions, and the emphasis of various countries on national security and strategic autonomy. However, the market shows obvious regional differences and differentiation of technical paths: the North American market is becoming more mature but the growth rate is slowing down. In the future, with the development of recyclable technology, the market size has a downward trend, while Asia-Pacific and Europe are rapidly expanding based on emerging demand and policy support, and the regional competition pattern is further complicated. From the perspective of technical routes, reusable engines (such as SpaceX's Raptor series and Blue Origin's BE-4) have gradually become mainstream, driving down launch costs; at the same time, in response to the global carbon neutrality goal, environmentally friendly technologies such as liquid oxygen and methane and green propellants are accelerating penetration. Traditional liquid oxygen and kerosene engines (such as Russia's RD-180 and China's YF-100) still occupy an important position in the field of low cost and high reliability, while hydrogen and oxygen engines (such as Europe's Vulcain and Japan's LE-9) still play an irreplaceable role in high-performance missions. The North American market size is \$1.29 billion in 2024, and is expected to reach \$1.637 billion in 2025 and \$1.52 billion in 2031, with a CAGR of -1.23%. This negative growth reflects the involutionary characteristics of the market after it has become relatively mature. SpaceX has monopolized nearly 70% of the global launch market share with its reusable

technology, forcing traditional suppliers (such as Aerojet Rocketdyne and Northrop Grumman) to transform to low-cost solutions, putting profit margins under pressure. The market size in the Asia-Pacific region will reach \$2.77 billion in 2024 (accounting for 54.4% of the world) and will soar to \$4.47 billion in 2031, with a CAGR of 7.72%, becoming the core engine of global growth. China Aerospace Science and Technology Corporation (CASC) has achieved independent control of the entire engine industry chain through the Long March series of rockets. The YF-100 (liquid oxygen kerosene) and YF-77 (hydrogen and oxygen) engines support low-Earth orbit and deep space exploration missions. On the policy side, the "14th Five-Year Plan" space plan clearly promotes the development of heavy rockets and reusable technologies, further releasing market potential. At the same time, commercial aerospace in the Asia-Pacific region has exploded, and satellite constellation plans (such as China's "Hongyan" and South Korea's "Hanxing") have spawned demand for small and medium-sized rockets, driving the market expansion of low-cost engines (such as solid engines and small liquid engines). In 2024, the world's top five companies (China Aerospace Science and Technology Corporation, Kuznetsov, SpaceX, Aerojet Rocketdyne, and NPO Energomash) will account for a total of 83.64% of revenue share. The market concentration is high, but the competition dimension presents new characteristics. SpaceX, with the "Raptor" engine as its core, has reduced costs to 1/10 of traditional engines through vertical integration and large-scale mass production, subverting industry pricing rules. Emerging companies (such as Rocket Lab's Rutherford engine and Blue Origin's BE-4) have entered the market segment through technologies such as 3D printing and intelligent manufacturing. The global rocket engine market is in a period of profound changes in technology routes, regional patterns, and business models. In the short term, leading enterprises rely on scale effects and policy barriers to maintain their dominant position; in the medium and long term, innovations such as reusability, green promotion, and intelligent manufacturing will reshape industry rules. For participants, building technological autonomy, optimizing supply chain resilience, and expanding commercial application scenarios will become the key to winning the future.

The global Rocket Engine market size was estimated at USD 5091.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Rocket Engine market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Rocket Engine market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Rocket Engine market.

### **Global Rocket Engine Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

CASC  
JSC Kuznetsov  
Space X  
Aerojet Rocketdyne  
NPO Energomash  
Northrop Grumman  
Mitsubishi Heavy Industries

MTAR Technologies  
IHI Corporation  
Rocket Lab  
ArianeGroup

### **Market Segmentation (by Type)**

Liquid Rocket Engine  
Solid Rocket Engine

### **Market Segmentation (by Application)**

Non-reusable Rockets  
Reusable Rocket

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the Rocket Engine Market  
Overview of the regional outlook of the Rocket Engine Market:

### **Customization of the Report**

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## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Rocket Engine Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Rocket Engine, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share,

product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change  
This enables you to anticipate market changes to remain ahead of your competitors  
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## **Customization of the Report**

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