

Rocket Propulsion Systems Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> **Industry:** Space Economy, Satellites & Propulsion (Aerospace & Defense)
> **Source:** https://www.mordorintelligence.com/industry-reports/rocket-propulsion-systems-market
> **Scraped Date:** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	USD 10.37 billion
Projected Forecast (2031)	USD 10.37 billion
Growth Rate (CAGR)	6.76 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

! [Major players in Rocket Propulsion Systems industry] (images/chart_2.png)

! [Rocket Propulsion Systems Market Size] (images/chart_3.png)

! [Rocket Propulsion Systems Market Share by Propulsion Type, 2025] (images/chart_4.png)

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! [Rocket Propulsion Systems Market Growth Rate by Region] (images/chart_6.png)

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Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market OverviewStudy Period | 2019 - 2031 |
Market Size (2026) | USD 7.48 Billion |
Market Size (2031) | USD 10.37 Billion |
Growth Rate (2026 - 2031) | 6.76 % |
Fastest Growing Market | Asia-Pacific |
Largest Market | North America |
Market Concentration | High |
Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Rocket Propulsion Systems Market Analysis by Mordor Intelligence The rocket propulsion systems market size is expected to grow from USD 6.99 billion in 2025 to USD 7.48 billion in 2026 and is forecasted to reach USD 10.37 billion by 2031 at a 6.76% CAGR over 2026-2031. Momentum is shaped by reusable launch vehicles that structurally reduce unit economics, high-cadence constellation deployment that pulls propulsion into volume manufacturing, and additive manufacturing that compresses development cycles and costs. Sovereign budgets in deep-space exploration and national security launches anchor multi-year demand for large liquid stages, solid rocket motors, and advanced air-breathing propulsion. Capacity is scaling on the back of firm orders for constellation launches and a widening pipeline of defense programs, including hypersonic systems. These dynamics position the rocket propulsion systems market to benefit from cost deflation, faster iteration, and a broader funding base across civil and defense customers.

Key Report Takeaways* By propulsion type, liquid propulsion led with a 63.22% share in 2025, while hybrid propulsion is forecasted to expand at an 8.91% CAGR during 2026-2031.

* By end user, civil and commercial accounted for a 58.95% share in 2025, while military and government are projected to grow at a 7.86% CAGR during 2026-2031.

* By component, motor casings held a 45.1% share in 2025, while propellants are set to expand at a 7.62% CAGR during 2026-2031.

* By type, rocket motors commanded a 58.88% share in 2025, while rocket engines are expected to grow at an 8.05% CAGR during 2026-2031.

* By geography, North America held a 38.55% share in 2025, while the Asia-Pacific is projected to grow at an 8.01% CAGR during 2026-2031.

Key Market Trends

Market Trends and Insights Drivers Impact Analysis of Rocket Propulsion Systems Market*Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |

Rapid mini-sat and mega-constellation deployment | +2.1% | Global, concentrated in North America and Asia-Pacific | Short term (≤ 2 years) |

Reusable launch vehicle economics | +1.8% | Global, led by North America (SpaceX, Blue Origin) and Asia-Pacific (China's CAS Space) | Medium term (2-4 years) |

Government deep-space and lunar-mission funding spike | +1.5% | North America, Europe, Asia-Pacific (India, Japan) | Medium term (2-4 years) |

Hypersonic weapons propulsion race | +0.9% | North America, Asia-Pacific (China), Europe | Long term (≥ 4 years) |

Additive manufacturing cost breakthroughs | +0.7% | Global, with early adoption in North America and Europe | Medium term (2-4 years) |

Methalox and green-propellant adoption push | +0.6% | North America (SpaceX, Blue Origin), Europe (ArianeGroup), Asia-Pacific (LandSpace) | Medium term (2-4 years) |

Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

Competition is divided between vertically integrated commercial launch providers and defense primes focused on solid propulsion and advanced air-breathing systems. SpaceX continues to lead commercial cadence and progress Starship test campaigns reliant on high-rate Raptor production. Blue Origin advanced with New Glenn's orbital launch operations and a successful booster landing, positioning the company for future national security launch competition. US Space Force Phase 3 a

wards to multiple providers set a competitive baseline for integration, pricing discipline, and reliability. These dynamics frame a durable rivalry between the heavy-lift and medium-lift segments of the rocket propulsion systems market.

Defense propulsion remains concentrated among established primes. L3Harris received significant investment to spin off its Missile Solutions business, which produces solid rocket motors for major US programs, with the new entity expected to scale output and revenue. Northrop Grumman's propulsion portfolio spans strategic systems and large boosters, sustaining long-term positions on critical defense platforms. Technology maturation continued as Lockheed Martin and GE Aerospace tested a rotating detonation ramjet concept for hypersonic applications. These moves underscore the defense sector's commitment to propulsion innovation and capacity in the rocket propulsion systems market.

A cohort of new entrants is targeting mid-lift and heavy-lift opportunities with methane engines and additive manufacturing at the core. Relativity Space completed Terran R CDR and has begun flight-intent production, with launch timing guided by engine test results and integration progress. Suppliers are also pursuing advanced manufacturing to compress design-to-test timelines, resulting in significant reductions in propulsion component lead times in some defense use cases. This wave of capability aims to balance capacity with cost and respond to constellation demand that rewards reliability and frequency in the rocket propulsion systems market.

Rocket Propulsion Systems Industry Leaders* L3Harris Technologies, Inc.

* Northrop Grumman Corporation

* Antrix Corporation Limited

* Mitsubishi Heavy Industries, Ltd.

* Safran S.A.

* *Disclaimer: Major Players sorted in no particular order

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Component Component 3 Scope Of The Report Bottom

Global Rocket Propulsion Systems Market Report ScopeRocket propulsion is a critical subsystem that propels a rocket from the ground into the atmosphere. This study delves into the various rocket propulsion systems that are crucial to space launch vehicles.

The rocket propulsion systems market is segmented by propulsion type, end user, component, type, and geography. Based on propulsion type, the market is segmented into solid, liquid, and hybrid. By end user, the market is segmented into civil and commercial, and military and government. By component, the market is segmented into motor casing, nozzle, propellant, and other components. By type, the market is segmented into rocket motor and rocket engine. The report also covers the market sizes and forecasts for the rocket propulsion systems market in major countries across different regions. For each segment, the market size is provided in terms of value (USD).

By Propulsion TypeSolid |

Liquid |

Hybrid |

Segmentation Accordion Item

By GeographyNorth America | United States |

| Canada |

- | Mexico |
- Europe | United Kingdom |
- | France |
- | Germany |
- | Russia |
- | Rest of Europe |
- Asia-Pacific | China |
- | India |
- | Japan |
- | South Korea |
- | Rest of Asia-Pacific |
- South America | Brazil |
- | Rest of South America |
- | |
- Middle East and Africa | Middle East | United Arab Emirates |
- | | Saudi Arabia |
- | | Rest of Middle East |
- | |
- | Africa | South Africa |
- | | Rest of Africa |

Frequently Asked Questions

What is the projected growth for the rocket propulsion systems market to 2031?

The rocket propulsion systems market size is expected to grow from USD 6.99 billion in 2025 to USD 7.48 billion in 2026 and is forecasted to reach USD 10.37 billion by 2031 at a 6.76% CAGR over 2026-2031.

Which propulsion type leads in share and which is growing fastest?

Liquid propulsion led with 63.22% share in 2025, while hybrid propulsion records the fastest growth at an 8.91% CAGR during 2026-2031.

Which customer segment is expanding most quickly through 2031?

Military and government is the fastest-growing end user at a 7.86% CAGR during 2026-2031, while civil and commercial held 58.95% share in 2025.

Which region is expected to grow the fastest?

Asia-Pacific is projected to post an 8.01% CAGR during 2026-2031, supported by large sovereign constellations and crewed-flight programs.

How are reusable vehicles influencing industry costs and cadence?

Booster recovery and rapid refurbishment are compressing marginal costs and enabling higher launch frequency, which expands addressable demand and underpins volume manufacturing.

What role does additive manufacturing play in propulsion programs today?

Additive manufacturing cuts production time and cost for critical engine components, enabling faster design-to-hot-fire cycles and supporting higher launch cadence.