

Probe Rocket Industry Report: Competitive Landscape and Future Prospects

The Business Research Company's Probe Rocket Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034

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The investigation rocket sector has experienced robust growth in recent times. This sector is projected to expand from \$16.53 billion in 2024 to \$17.79 billion in 2025 at a compound annual growth rate (CAGR) of 7.6%. The significant growth during the historic era is due to factors such

as reduced launch costs due to reusability, a rise in commercial space launch requirements, progressing advancements in the field of rocket propulsion technology, increased funding from private space agencies, and surging interest in space tourism.



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The market for probe rockets is predicted to experience robust expansion in the coming years, with an estimated worth of \$23.55 billion by 2029, growing at a compound annual growth rate (CAGR) of 7.3%. The surge in the predicted period can be attributed to the rising demand

for compact, power-efficient space probes, increased investment and government sponsorship in space missions and commercialized space startups, enhanced development in rocket reusability and launch technology, growth in applications for planet exploration and satellite deployment, and an increasing emphasis on cost-effective and adaptable land as well as sea-based launch platforms. The forecast period is also expected to see significant trends, including the creation of heavy-lift probe rockets, projects for interplanetary exploration, cost-effective launch strategies, propulsion system innovations for heightened efficiency, and the incorporation of digital twin technology in rocket design.

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What Is The Crucial Factor Driving The Global Probe Rocket Market?

The escalation of commercial endeavors in space exploration are anticipated to boost the probe rocket market's progression. Such activities involve space-connected services, missions and innovation executed by private corporations for profit, research, or commercial benefits beyond government-operated programs. The surge in these activities is due to the growth in private investments as companies are funneling money into advanced technologies and missions in order to seize rising opportunities in space markets. Probe rockets are instrumental in supporting commercial space exploration initiatives by providing firms the capacity to transport scientific tools, telecommunication payloads, and exploration probes into space. For example, the Space Foundation, a US-based nonprofit organization dedicated to space, announced in January 2024 that global launch activities achieved record highs for the third consecutive year, with 223 attempted launches and 212 successful ones. Commercial launch activities experienced a 50% increase from 2022. Consequently, the burgeoning commercial space exploration activity is predicted to accelerate the growth of the probe rocket market. As investments increase in space missions, the probe rocket market's growth is likely to be boosted due to increasing allocations for satellite-based services and technology advancement. Space missions are preplanned operations that send either spacecraft or astronauts into outer space for exploration, study, or the accomplishment of definite scientific or technological objectives. The escalating investments in space missions come as the demand for satellite-based services is growing, with an increasing dependence on satellites for communication, navigation, Earth surveillance, and data-driven decision-making by companies and governments. Investments in space missions stimulate the construction of probe rockets by supplying the needed funding for research, sophisticated technology, and engineering necessary to design and send spacecraft into space for exploration. For instance, the UK Space Agency, a government agency in the UK, reported in July 2025 that UK-based space companies raised \$647 million (£481 million) through 92 investment transactions in 2024, with venture capital accounting for 43% of the total funding and making up 16% of all deals. Therefore, the escalating investments in space missions are propelling the growth of the probe rocket market.

Who Are The Emerging Players In The Probe Rocket Market?

Major players in the Probe Rocket Global Market Report 2025 include:

- The Boeing Company
- Lockheed Martin Corporation
- Northrop Grumman Corporation
- Safran SA
- Space Exploration Technologies Corp.
- Blue Origin LLC
- Magellan Aerospace Corporation
- Rocket Lab USA Inc.
- Intuitive Machines Inc.
- Andøya Space Center

What Are The Prominent [Trends In The Probe Rocket Market?](#)

Leading firms in the probe rocket market are directing their efforts towards the creation of planetary defense probes, which are designed to meticulously track and analyze possible threats from outer space. These probes, essentially spacecrafts, are built to detect, monitor and neutralize asteroids and other space objects that could potentially harm Earth. As an example, the European Space Agency, an intergovernmental organization located in France, launched its planetary defense probe named Hera on a SpaceX Falcon 9 in October 2024. The Hera mission is particularly noteworthy as it includes three individual spacecrafts. The primary spacecraft has a width of 1.6 meters and is fitted with a pair of solar panels, each being five meters long. Additionally, it holds two CubeSats of 10-centimeter each, named Milani and Juventas. Milani is tasked with analyzing the mineral composition of Dimorphos as well as its surrounding dust, while Juventas embarks on the first-ever subsurface radar inspection of an asteroid.

What Segments Are Covered In The Probe Rocket Market Report?

The probe rocket market covered in this report is segmented

- 1) By Type: Sounding Rockets, Research Rockets, Suborbital Rockets, Experimental Rockets
- 2) By Technology: Chemical Propulsion, Hybrid Propulsion, Electric Propulsion, Solid Propulsion
- 3) By Payload Capacity: Small Payload, Medium Payload, Large Payload, Heavy Payload
- 4) By End-User: Government Space Agencies, Private Space Companies, Research Institutions, Educational Organizations

Subsegment:

- 1) By Sounding Rockets: High Altitude, Low Altitude, Meteorological, Aeronomy
- 2) By Research Rockets: Atmospheric Studies, Space Physics, Microgravity Experiments, Astrophysics
- 3) By Suborbital Rockets: Commercial, Educational, Technology Demonstration, Tourism
- 4) By Experimental Rockets: Propulsion Testing, Materials Testing, Aerodynamics Testing, Guidance Systems Testing

View the full probe rocket market report:

<https://www.thebusinessresearchcompany.com/report/probe-rocket-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Probe Rocket Market?

In the Probe Rocket Global Market Report 2025, North America was identified as the leading region in terms of probe rocket market in 2024. Asia-Pacific is anticipated to witness the most rapid growth during the forecast period. The report encompasses various regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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