

Autonomous Rocket Landing Gear Industry Report: Competitive Landscape and Future Prospects

*The Business Research Company's
Autonomous Rocket Landing Gear Global
Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

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Autonomous Rocket Landing Gear Global Market
Report 2025

How Big Is The [Autonomous Rocket Landing Gear Market](#) In 2025?

There's been a significant expansion in the market size of autonomous rocket landing gear in the past few years. The market, valued at \$1.08 billion in 2024, is projected to increase to \$1.23 billion in 2025, representing a compound annual growth rate (CAGR) of 14.3%. This growth during the historical period can be attributed to several factors such as greater demand for reusable launch systems, advancements in autonomous navigation and control technologies, a surge in commercial spaceflight investments, emphasis on accuracy in landing capabilities, and a growing trend towards adopting cost-efficient recovery systems.

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Anticipated to experience swift expansion in the years to come, the autonomous rocket landing gear market is predicted to grow to a sizeable \$2.08 billion by 2029, boasting a compound annual growth rate (CAGR) of 14.0%. Factors contributing to this predicted growth during the forecast period include an escalated focus on reusable launch systems, advances in autonomous guidance and control systems, an upsurge in demand for affordable space missions, increased frequency of commercial rocket launches and investments in future-generation space infrastructure. Noticeable trends for the forecast period are the incorporation of superior

sensors and actuators for on-the-spot landing modifications, the utilization of lightweight composites to decrease structural mass, the usage of AI-based control calculations for autonomous descent, a likely merger with retro-propulsion systems for improved stability and accuracy, and integration with reusable launch vehicles to decrease mission expenditures.

Download a free sample of the autonomous rocket landing gear market report:

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What Is The Crucial Factor Driving The Global Autonomous Rocket Landing Gear Market?

The autonomous rocket landing gear market is set to flourish due to an uptick in space exploration investments. These investments, made by governments and private organizations, are directed towards the advancement and deployment of tech for space missions. The growing interest in ventures like deep space missions and satellite deployments has led to a surge in financial commitment towards space initiatives from both, public and private sectors. This, in turn, promotes the growth of autonomous rocket landing gear through the support of prototypical tech such as sensors, AI, and precision controls, leading to safer and more economical space missions with enhanced reusability. For example, in July 2024, the Space Foundation, a nonprofit organization supporting the space community globally, reported that the global space economy rose to \$570 billion in 2023, a 7.4% rise from the revised 2022 total of \$531 billion. Consequently, the upward trend in space exploration investments is fostering the expansion of the autonomous rocket landing gear market.

Who Are The Emerging Players In The Autonomous Rocket Landing Gear Market?

Major players in the Autonomous Rocket Landing Gear Global Market Report 2025 include:

- Safran S.A
- Space Exploration Technologies Corp (SpaceX)
- Blue Origin LLC
- ArianeGroup
- The Indian Space Research Organisation
- Relativity Space Inc.
- ispace Inc.
- Rocket Lab Corporation
- Firefly Aerospace
- Astrobotic

What Are The Key Trends Shaping The [Autonomous Rocket Landing Gear Industry](#)?

Leading companies in the autonomous rocket landing gear market are prioritizing the development of advanced products such as reusable launch vehicles that are capable of autonomous landing to boost the overall efficiency of spaceflights. Essentially, these vehicles are rockets designed to land autonomously after they have deployed their payloads in space. The possibility to reuse these rockets reduces costs associated with launches and enhances the operational efficiency across different missions. For example, in June 2024, the India-based space agency, Indian Space Research Organisation, successfully launched Pushpak and

conducted its third landing experiment (RLV LEX-03) at the Aeronautical Test Range situated in Chitradurga, Karnataka. During this experiment, Pushpak was released from an Indian Air Force Chinook helicopter at an altitude of 4.5 km. It autonomously carried out cross-range corrections and accomplished landing accurately on the runway centerline, thereby displaying a strong capability for autonomous landing and navigation even under challenging conditions.

What Segments Are Covered In The Autonomous Rocket Landing Gear Market Report?

The autonomous rocket landing gear market covered in this report is segmented –

- 1) By Component: Sensors, Actuators, Control Systems, Software, Other Components
- 2) By Deployment Mode: On-Premises, Cloud
- 3) By Application: Commercial Spacecraft, Military Spacecraft, Research And Development
- 4) By End-User: Space Agencies, Private Space Companies, Defense Organizations, Research Institutions

Subsegments:

- 1) By Sensors: Inertial Measurement Units (IMUs), Proximity Sensors, Altimeters, Pressure Sensors, Accelerometers, Gyroscopes
- 2) By Actuators: Hydraulic Actuators, Electric Actuators, Pneumatic Actuators, Electromechanical Actuators
- 3) By Control Systems: Flight Control Modules, Landing Gear Control Units (LGCU), Redundancy Management Systems, Navigation And Guidance Controllers
- 4) By Software: Real-Time Operating Systems (RTOS), Autonomous Landing Algorithms, Sensor Fusion Software, Diagnostic And Health Monitoring Software
- 5) By Other Components: Power Supply Units, Structural Components, Shock Absorbers, Communication Modules

View the full autonomous rocket landing gear market report:

<https://www.thebusinessresearchcompany.com/report/autonomous-rocket-landing-gear-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Autonomous Rocket Landing Gear Market?

In the Autonomous Rocket Landing Gear Global Market Report 2025, North America holds the position of being the leading region for the year 2024. Its anticipated growth trend is also covered in the report. The report includes market analysis for various regions including Asia-Pacific, Western Europe, Eastern Europe, South America, the Middle East, and Africa.

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