

# Space Lander and Rover Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

<https://marketpublishers.com/r/S5F5BE51462EEN.html>

Date: November 2024

Pages: 230

Price: US\$ 4,850.00 (Single User License)

ID: S5F5BE51462EEN

## Abstracts

The Global Space Lander And Rover Market was valued at USD 607.4 million in 2024 and is projected to expand at 9.7% CAGR from 2025 to 2034. This growth is primarily fueled by the increasing emphasis on lunar and Martian exploration, with major space agencies and private companies investing heavily in missions targeting the Moon and Mars. The market is segmented based on mission type, including Mars surface exploration, lunar surface exploration, and exploration of asteroids and comets. Among these, lunar surface exploration accounted for the largest share in 2024, driven by various government-led initiatives aimed at establishing a sustained human presence on the Moon. These missions require advanced landers and rovers capable of conducting scientific research, extracting resources, and facilitating infrastructure development. As technology advances, companies are focusing on developing more cost-effective solutions for lunar exploration, which increases demand for highly autonomous vehicles capable of performing complex tasks in harsh environments. The Moon's strategic role as a potential launchpad for future deep space missions is contributing to the growing need for sophisticated rovers and landers.

The market is also categorized by vehicle type into near-space landers and space rovers. In 2024, space rovers represented the fastest-growing segment, expanding at a CAGR of 10.4% over the forecast period. These rovers are essential for autonomous exploration on celestial bodies like the Moon and Mars, equipped with AI-driven navigation systems, advanced sensors, and scientific tools for real-time data collection. The increasing complexity of space missions, including resource extraction and habitat building, is driving the demand for versatile rovers capable of operating in various challenging environments. As space exploration shifts toward longer, more sustainable missions, the technology of space rovers is continuously evolving, with improvements in

mobility, durability, and obstacle navigation.

The Asia-Pacific region accounted for the largest market share of 35.2% in 2024 and is projected to reach USD 500 million by 2034. It is anticipated to sustain its dominant place throughout the 2025-2034. Key players in this region, including countries like India, China, and Japan, are making significant advancements in the space lander and rover market. The region's focus on deep space exploration and the rapid development of cutting-edge space technology positions it as a major contributor to the global market's growth.

## Contents

### Report Content

#### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid sources
    - 1.4.2.2 Public sources

#### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Industry synopsis, 2021-2034

#### **CHAPTER 3 INDUSTRY INSIGHTS**

- 3.1 Industry ecosystem analysis
  - 3.1.1 Factor affecting the value chain
  - 3.1.2 Profit margin analysis
  - 3.1.3 Disruptions
  - 3.1.4 Future outlook
  - 3.1.5 Manufacturers
  - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
  - 3.6.1 Growth drivers
    - 3.6.1.1 Surging global interest in lunar and Martian exploration missions
    - 3.6.1.2 Technological advancements in autonomous navigation and mobility systems
    - 3.6.1.3 Private sector investment and expansion in space exploration technologies
    - 3.6.1.4 Governmental commitments to long-term lunar and mars colonization plans
    - 3.6.1.5 Development of In-Situ resource utilization (ISRU) capabilities for space

exploration

3.6.2 Industry pitfalls & challenges

3.6.2.1 High development costs and technological complexity of space lander and rover systems

3.6.2.2 Risks of mission failures due to harsh extraterrestrial environments

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2024**

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

## **CHAPTER 5 MARKET ESTIMATES & FORECAST, BY MISSION TYPE, 2021-2034 (USD MILLION)**

5.1 Key trends

5.2 Lunar surface exploration

5.3 Mars surface exploration

5.4 Asteroids and comet exploration

## **CHAPTER 6 MARKET ESTIMATES & FORECAST, BY VEHICLE TYPE, 2021-2034 (USD MILLION)**

6.1 Key trends

6.2 Space Landers

6.3 Space Rovers

## **CHAPTER 7 MARKET ESTIMATES & FORECAST, BY PROPULSION TYPE, 2021-2034 (USD MILLION)**

7.1 Key trends

7.2 Chemical propulsion

7.3 Electric/Ion propulsion

7.4 Hybrid propulsion systems

## **CHAPTER 8 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2034 (USD MILLION)**

- 8.1 Key trends
- 8.2 Scientific research
- 8.3 Resource exploration
- 8.4 Technology demonstration
- 8.5 Others

## **CHAPTER 9 MARKET ESTIMATES & FORECAST, BY END USE, 2021-2034 (USD MILLION)**

- 9.1 Key trends
- 9.2 Government and defense
- 9.3 Space exploration organizations
- 9.4 Private aerospace companies
- 9.5 Research institutions

## **CHAPTER 10 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2034 (USD MILLION)**

- 10.1 Key trends
- 10.2 North America
  - 10.2.1 U.S.
  - 10.2.2 Canada
- 10.3 Europe
  - 10.3.1 UK
  - 10.3.2 Germany
  - 10.3.3 France
  - 10.3.4 Italy
  - 10.3.5 Spain
  - 10.3.6 Russia
- 10.4 Asia Pacific
  - 10.4.1 China
  - 10.4.2 India
  - 10.4.3 Japan
  - 10.4.4 South Korea
  - 10.4.5 Australia
- 10.5 Latin America

- 10.5.1 Brazil
- 10.5.2 Mexico
- 10.6 MEA
  - 10.6.1 South Africa
  - 10.6.2 Saudi Arabia
  - 10.6.3 UAE

## **CHAPTER 11 COMPANY PROFILES**

- 11.1 Airbus SE
- 11.2 Astrobotic Technology
- 11.3 Astrobotic Technology, Inc
- 11.4 Blue Origin
- 11.5 Canadian Space Agency
- 11.6 China Academy of Space Technology
- 11.7 European Space Agency
- 11.8 ispace, inc.
- 11.9 ISRO
- 11.10 Japanese Aerospace Exploration Agency (JAXA)
- 11.11 Lockheed Martin Corporation
- 11.12 National Aeronautics and Space Administration
- 11.13 Northrop Grumman Corporation
- 11.14 Roscosmos
- 11.15 Spacebit Technologies

## I would like to order

Product name: Space Lander and Rover Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

Product link: <https://marketpublishers.com/r/S5F5BE51462EEN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S5F5BE51462EEN.html>