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Global Space Debris Removal Market Size Study & Forecast, by Application, Debris Size Range, Orbit Type, End-use, and Regional Forecasts 2025–2035

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Abstracts

The Global Space Debris Removal Market was valued at approximately USD 1 billion in 2024 and is anticipated to grow at a robust CAGR of 7.15% during the forecast period of 2025 to 2035. As space becomes increasingly commercialized and congested, the proliferation of defunct satellites, fragments from launch stages, and accidental collisions has turned Earth's orbits into a chaotic expanse. These debris fragments, traveling at hypervelocity, pose a critical threat to functional satellites, international space missions, and future orbital infrastructure. The urgency to address this emerging hazard has catalyzed the growth of the space debris removal market, which aims to restore orbital sustainability through both active and passive removal techniques. Governments, defense agencies, and private aerospace companies are now converging on technology solutions such as robotic arms, nets, lasers, and drag-enhancing devices that can mitigate risks by de-orbiting or repositioning the debris safely.

The market is being shaped by increasing investments from spacefaring nations, growing global recognition of orbital sustainability, and supportive policy frameworks such as the UN's Long-Term Sustainability Guidelines. Technological innovations—including AI-powered tracking systems, optical and radar-based surveillance, and adaptive debris capture mechanisms—are opening new frontiers in space debris monitoring and interception. Furthermore, advancements in reusable launch vehicles and the miniaturization of components have made debris removal missions more economically feasible. Although high initial costs and regulatory uncertainties continue to impede some commercial momentum, strategic collaborations among defense institutions, space agencies, and NewSpace startups are mitigating these barriers while unlocking scalable, dual-use solutions for both national security and civil space assets.

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From a regional standpoint, North America currently leads the charge due to the dominance of U.S.-based aerospace and defense contractors, a well-funded space program led by NASA and the DoD, and early adoption of orbital safety initiatives. Europe follows closely, with agencies such as ESA pioneering active debris removal demonstrations and strong compliance with environmental standards. Meanwhile, the Asia Pacific region is witnessing the fastest acceleration in this market, fueled by China's and India’s growing satellite constellations and heightened space ambitions. Japan is also emerging as a key innovator in micro-debris removal solutions. Across Latin America, the Middle East, and Africa, increasing participation in international space consortia and emerging sovereign space programs are laying the groundwork for market expansion and collaboration in debris mitigation initiatives.

Major market player included in this report are:

Astroscale Holdings Inc.

Northrop Grumman Corporation

ClearSpace SA

Lockheed Martin Corporation

Airbus S.A.S.

Altius Space Machines, Inc.

Boeing Company

Raytheon Technologies Corporation

Sierra Space

Rocket Lab USA, Inc.

Surrey Satellite Technology Ltd.

Honeybee Robotics

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LeoLabs, Inc.

Momentus Inc.

Thales Alenia Space

Global Space Debris Removal Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Application:

Space Debris Monitoring

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Space Debris Removal

By Debris Size Range:

1mm to 1cm Debris Size

1cm to 10cm Debris Size

Greater than 10cm

By Orbit Type:

Low Earth Orbit (LEO)

Geostationary Earth Orbit (GEO)

By End-use:

Commercial

Defense

By Region:

North America

U.S.

Canada

Europe

UK

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- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia

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South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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Contents

CHAPTER 1. GLOBAL SPACE DEBRIS REMOVAL MARKET REPORT SCOPE & METHODOLOGY

1.1. Research Objective
1.2. Research Methodology
  1.2.1. Forecast Model
  1.2.2. Desk Research
  1.2.3. Top-Down and Bottom-Up Approach
1.3. Research Attributes
1.4. Scope of the Study
  1.4.1. Market Definition
  1.4.2. Market Segmentation
1.5. Research Assumption
  1.5.1. Inclusion & Exclusion
  1.5.2. Limitations
  1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

2.1. CEO/CXO Standpoint
2.2. Strategic Insights
2.3. ESG Analysis
2.4. Key Findings

CHAPTER 3. GLOBAL SPACE DEBRIS REMOVAL MARKET FORCES ANALYSIS

3.1. Market Forces Shaping the Global Space Debris Removal Market (2024–2035)
3.2. Drivers
  3.2.1. Escalating Orbital Congestion from Mega-Constellations
  3.2.2. Regulatory & Sustainability Mandates (UN LTS Guidelines)
3.3. Restraints
  3.3.1. High CAPEX and Mission Complexity
  3.3.2. Regulatory & Liability Uncertainties
3.4. Opportunities
  3.4.1. AI-Enabled Debris Tracking & Removal Technologies
  3.4.2. Public-Private Partnerships & Dual-Use Applications

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CHAPTER 4. GLOBAL SPACE DEBRIS REMOVAL INDUSTRY ANALYSIS

4.1. Porter’s Five Forces Model
  4.1.1. Bargaining Power of Buyers
  4.1.2. Bargaining Power of Suppliers
  4.1.3. Threat of New Entrants
  4.1.4. Threat of Substitutes
  4.1.5. Competitive Rivalry
4.2. Porter’s Five Forces Forecast Model (2024–2035)
4.3. PESTEL Analysis
  4.3.1. Political
  4.3.2. Economical
  4.3.3. Social
  4.3.4. Technological
  4.3.5. Environmental
  4.3.6. Legal
4.4. Top Investment Opportunities
4.5. Top Winning Strategies (2025)
4.6. Market Share Analysis (2024–2025)
4.7. Global Pricing Analysis and Trends 2025
4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SPACE DEBRIS REMOVAL MARKET SIZE & FORECASTS BY APPLICATION 2025–2035

5.1. Market Overview
5.2. Space Debris Monitoring
  5.2.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
  5.2.2. Market Size Analysis, by Region, 2025–2035
5.3. Space Debris Removal
  5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
  5.3.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 6. GLOBAL SPACE DEBRIS REMOVAL MARKET SIZE & FORECASTS BY DEBRIS SIZE RANGE 2025–2035

6.1. Market Overview
6.2. 1 mm–1 cm Debris Size
  6.2.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035

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6.2.2. Market Size Analysis, by Region, 2025–2035
6.3. 1 cm–10 cm Debris Size
6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
6.3.2. Market Size Analysis, by Region, 2025–2035
6.4. Greater than 10 cm Debris Size
6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
6.4.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 7. GLOBAL SPACE DEBRIS REMOVAL MARKET SIZE & FORECASTS BY REGION 2025–2035

7.1. Market, Regional Snapshot
7.2. Top Leading & Emerging Countries
7.3. North America Space Debris Removal Market
7.3.1. U.S. Market
7.3.1.1. Application Breakdown Size & Forecasts, 2025–2035
7.3.1.2. Debris Size Range Breakdown, 2025–2035
7.3.2. Canada Market
7.3.2.1. Application Breakdown Size & Forecasts, 2025–2035
7.3.2.2. Debris Size Range Breakdown, 2025–2035
7.4. Europe Space Debris Removal Market
7.4.1. UK Market
7.4.1.1. Application Breakdown Size & Forecasts, 2025–2035
7.4.1.2. Orbit Type Breakdown, 2025–2035
7.4.2. Germany Market
7.4.2.1. Application Breakdown Size & Forecasts, 2025–2035
7.4.2.2. Orbit Type Breakdown, 2025–2035
7.4.3. France Market
7.4.3.1. Application Breakdown Size & Forecasts, 2025–2035
7.4.3.2. Orbit Type Breakdown, 2025–2035
7.4.4. Spain Market
7.4.4.1. Application Breakdown Size & Forecasts, 2025–2035
7.4.4.2. Orbit Type Breakdown, 2025–2035
7.4.5. Italy Market
7.4.5.1. Application Breakdown Size & Forecasts, 2025–2035
7.4.5.2. Orbit Type Breakdown, 2025–2035
7.4.6. Rest of Europe Market
7.4.6.1. Application Breakdown Size & Forecasts, 2025–2035
7.4.6.2. Orbit Type Breakdown, 2025–2035

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7.5. Asia Pacific Space Debris Removal Market
7.5.1. China Market
7.5.1.1. Application Breakdown Size & Forecasts, 2025–2035
7.5.1.2. Orbit Type Breakdown, 2025–2035
7.5.2. India Market
7.5.2.1. Application Breakdown Size & Forecasts, 2025–2035
7.5.2.2. Orbit Type Breakdown, 2025–2035
7.5.3. Japan Market
7.5.3.1. Application Breakdown Size & Forecasts, 2025–2035
7.5.3.2. Orbit Type Breakdown, 2025–2035
7.5.4. Australia Market
7.5.4.1. Application Breakdown Size & Forecasts, 2025–2035
7.5.4.2. Orbit Type Breakdown, 2025–2035
7.5.5. South Korea Market
7.5.5.1. Application Breakdown Size & Forecasts, 2025–2035
7.5.5.2. Orbit Type Breakdown, 2025–2035
7.5.6. Rest of Asia Pacific Market
7.5.6.1. Application Breakdown Size & Forecasts, 2025–2035
7.5.6.2. Orbit Type Breakdown, 2025–2035
7.6. Latin America Space Debris Removal Market
7.6.1. Brazil Market
7.6.1.1. Application Breakdown Size & Forecasts, 2025–2035
7.6.1.2. End-use Breakdown, 2025–2035
7.6.2. Mexico Market
7.6.2.1. Application Breakdown Size & Forecasts, 2025–2035
7.6.2.2. End-use Breakdown, 2025–2035
7.7. Middle East & Africa Space Debris Removal Market
7.7.1. UAE Market
7.7.1.1. Application Breakdown Size & Forecasts, 2025–2035
7.7.1.2. End-use Breakdown, 2025–2035
7.7.2. Saudi Arabia Market
7.7.2.1. Application Breakdown Size & Forecasts, 2025–2035
7.7.2.2. End-use Breakdown, 2025–2035
7.7.3. South Africa Market
7.7.3.1. Application Breakdown Size & Forecasts, 2025–2035
7.7.3.2. End-use Breakdown, 2025–2035

CHAPTER 8. COMPETITIVE INTELLIGENCE

+357 96 030922
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8.1. Top Market Strategies
8.2. Astroscale Holdings Inc.
  8.2.1. Company Overview
  8.2.2. Key Executives
  8.2.3. Company Snapshot
  8.2.4. Financial Performance (Subject to Data Availability)
  8.2.5. Product/Services Portfolio
  8.2.6. Recent Development
  8.2.7. Market Strategies
  8.2.8. SWOT Analysis
8.3. Northrop Grumman Corporation
8.4. ClearSpace SA
8.5. Lockheed Martin Corporation
8.6. Airbus S.A.S.
8.7. Altius Space Machines, Inc.
8.8. Boeing Company
8.9. Raytheon Technologies Corporation
8.10. Sierra Space
8.11. Rocket Lab USA, Inc.
8.12. Surrey Satellite Technology Ltd.
8.13. Honeybee Robotics
8.14. LeoLabs, Inc.
8.15. Momentus Inc.
8.16. Thales Alenia Space

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List Of Tables

LIST OF TABLES

Table 1. Global Space Debris Removal Market, Report Scope
Table 2. Global Space Debris Removal Market Estimates & Forecasts By Region 2024–2035
Table 3. Global Space Debris Removal Market Estimates & Forecasts By Application 2024–2035
Table 4. Global Space Debris Removal Market Estimates & Forecasts By Debris Size Range 2024–2035
Table 5. Global Space Debris Removal Market Estimates & Forecasts By Orbit Type 2024–2035
Table 6. Global Space Debris Removal Market Estimates & Forecasts By End-use 2024–2035
Table 7. U.S. Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 8. Canada Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 9. UK Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 10. Germany Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 11. France Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 12. Spain Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 13. Italy Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 14. Rest of Europe Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 15. China Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 16. India Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 17. Japan Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 18. Australia Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 19. South Korea Space Debris Removal Market Estimates & Forecasts, 2024–2035
Table 20. Brazil Space Debris Removal Market Estimates & Forecasts, 2024–2035

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List Of Figures

LIST OF FIGURES

Fig 1. Global Space Debris Removal Market, Research Methodology
Fig 2. Global Space Debris Removal Market, Market Estimation Techniques
Fig 3. Global Market Size Estimates & Forecast Methods
Fig 4. Global Space Debris Removal Market, Key Trends 2025
Fig 5. Global Space Debris Removal Market, Growth Prospects 2024–2035
Fig 6. Global Space Debris Removal Market, Porter’s Five Forces Model
Fig 7. Global Space Debris Removal Market, PESTEL Analysis
Fig 8. Global Space Debris Removal Market, Value Chain Analysis
Fig 9. Space Debris Removal Market By Application, 2025 & 2035
Fig 10. Space Debris Removal Market By Debris Size Range, 2025 & 2035
Fig 11. Space Debris Removal Market By Orbit Type, 2025 & 2035
Fig 12. Space Debris Removal Market By End-use, 2025 & 2035
Fig 13. North America Space Debris Removal Market, 2025 & 2035
Fig 14. Europe Space Debris Removal Market, 2025 & 2035
Fig 15. Asia Pacific Space Debris Removal Market, 2025 & 2035
Fig 16. Latin America Space Debris Removal Market, 2025 & 2035
Fig 17. Middle East & Africa Space Debris Removal Market, 2025 & 2035
Fig 18. Global Space Debris Removal Market, Company Market Share Analysis (2025)

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