

Global Space Mining Market Size Study, by Technique (Asteroid Mining, Lunar Mining, Planetary Mining), by Resource Extraction (Liquid Extraction, Precious Metals Extraction, Rare Earth Elements Extraction, Other Resources), by Infrastructure (Drilling Rigs and Excavators, Payload Handling Systems, Autonomous Mining Vehicles, Ore Processing Plants, Orbital Storage Depots, Interplanetary Transport Vessels) and Regional Forecasts 2022-2032

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Abstracts

Global Space Mining Market is valued at approximately USD 1.67 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 19.13% over the forecast period 2024-2032. Technological advancements in space exploration are a primary driver for the global space mining market. Over the past decade, significant progress has been made in spacecraft design, propulsion systems, and robotic technologies, making it feasible to undertake missions to asteroids and other celestial bodies for resource extraction. Companies like SpaceX and Blue Origin are developing reusable rockets, significantly reducing the cost of space missions. Additionally, advancements in robotic technology, such as those developed by NASA and the European Space Agency, enable precise and autonomous operations in the harsh environment of space, performing detailed surveys of potential mining sites, extracting resources, and processing materials on-site. As these technologies continue to evolve, they will lower the barriers to entry for space mining, making it more economically viable and driving market growth.

The global space mining market is experiencing robust growth, propelled by several key

factors. The strategic and economic potential of space mining has led several governments to implement policies encouraging private sector investment and innovation. The United States passed the Commercial Space Launch Competitiveness Act in 2015, granting private companies the rights to resources they extract from space. Similarly, Luxembourg has established itself as a hub for space mining activities, providing financial incentives and a favourable regulatory environment to attract space mining companies. These policy initiatives create a conducive environment for the development of space mining technologies and operations, driving market growth. Furthermore, international cooperation through agreements such as the Artemis Accords supports the expansion of the space mining industry by providing a framework for resource extraction and utilisation.

The key regions considered for the Global Space Mining Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. In 2023, North America is the largest regional market in the marketplace, propelled by the presence of key players and significant investments in space exploration technologies. The market in Asia Pacific, on the other hand, is expected to grow at the fastest rate over the forecast period due to increasing investments in space technology and exploration initiatives by countries like China and India.

Major market players included in this report are:

SpaceX

Blue Origin

Planetary Resources, Inc.

Deep Space Industries

Moon Express

iSpace

TransAstra Corporation

Asteroid Mining Corporation

Bradford Space

OffWorld

Shackleton Energy Company

Kleos Space S.A.

Honeybee Robotics

Masten Space Systems

Lunar Outpost

The detailed segments and sub-segments of the market are explained below:

By Technique:

Asteroid Mining

Lunar Mining

Planetary Mining

By Resource Extraction:

Liquid Extraction

Precious Metals Extraction

Rare Earth Elements Extraction

Other Resources

By Infrastructure:

Drilling Rigs and Excavators

Payload Handling Systems

Autonomous Mining Vehicles

Ore Processing Plants

Orbital Storage Depots

Interplanetary Transport Vessels

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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.

Contents

CHAPTER 1. GLOBAL SPACE MINING MARKET EXECUTIVE SUMMARY

- 1.1. Global Space Mining Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Technique
 - 1.3.2. By Resource Extraction
 - 1.3.3. By Infrastructure
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL SPACE MINING MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL SPACE MINING MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Technological Advancements in Space Exploration
- 3.1.2. Government Support and Policy Initiatives
- 3.1.3. Economic Viability of Space Missions

3.2. Market Challenges

- 3.2.1. High Initial Investment Costs
- 3.2.2. Technical and Operational Challenges
- 3.2.3. Regulatory and Legal Hurdles

3.3. Market Opportunities

- 3.3.1. Expanding Private Sector Investment
- 3.3.2. Advancements in Autonomous Mining Technologies
- 3.3.3. International Collaboration and Agreements

CHAPTER 4. GLOBAL SPACE MINING MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top Investment Opportunity

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SPACE MINING MARKET SIZE & FORECASTS BY TECHNIQUE 2022-2032

5.1. Segment Dashboard

5.2. Global Space Mining Market: Technique Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Asteroid Mining

5.2.2. Lunar Mining

5.2.3. Planetary Mining

CHAPTER 6. GLOBAL SPACE MINING MARKET SIZE & FORECASTS BY RESOURCE EXTRACTION 2022-2032

6.1. Segment Dashboard

6.2. Global Space Mining Market: Resource Extraction Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Liquid Extraction

6.2.2. Precious Metals Extraction

6.2.3. Rare Earth Elements Extraction

6.2.4. Other Resources

CHAPTER 7. GLOBAL SPACE MINING MARKET SIZE & FORECASTS BY INFRASTRUCTURE 2022-2032

7.1. Segment Dashboard

7.2. Global Space Mining Market: Infrastructure Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Drilling Rigs and Excavators

7.2.2. Payload Handling Systems

7.2.3. Autonomous Mining Vehicles

7.2.4. Ore Processing Plants

7.2.5. Orbital Storage Depots

7.2.6. Interplanetary Transport Vessels

CHAPTER 8. GLOBAL SPACE MINING MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Space Mining Market

8.1.1. U.S. Space Mining Market

8.1.1.1. Technique breakdown size & forecasts, 2022-2032

8.1.1.2. Resource Extraction breakdown size & forecasts, 2022-2032

8.1.1.3. Infrastructure breakdown size & forecasts, 2022-2032

- 8.1.2. Canada Space Mining Market
 - 8.1.2.1. Technique breakdown size & forecasts, 2022-2032
 - 8.1.2.2. Resource Extraction breakdown size & forecasts, 2022-2032
 - 8.1.2.3. Infrastructure breakdown size & forecasts, 2022-2032
- 8.2. Europe Space Mining Market
 - 8.2.1. U.K. Space Mining Market
 - 8.2.2. Germany Space Mining Market
 - 8.2.3. France Space Mining Market
 - 8.2.4. Spain Space Mining Market
 - 8.2.5. Italy Space Mining Market
 - 8.2.6. Rest of Europe Space Mining Market
- 8.3. Asia-Pacific Space Mining Market
 - 8.3.1. China Space Mining Market
 - 8.3.2. India Space Mining Market
 - 8.3.3. Japan Space Mining Market
 - 8.3.4. Australia Space Mining Market
 - 8.3.5. South Korea Space Mining Market
 - 8.3.6. Rest of Asia Pacific Space Mining Market
- 8.4. Latin America Space Mining Market
 - 8.4.1. Brazil Space Mining Market
 - 8.4.2. Mexico Space Mining Market
 - 8.4.3. Rest of Latin America Space Mining Market
- 8.5. Middle East & Africa Space Mining Market
 - 8.5.1. Saudi Arabia Space Mining Market
 - 8.5.2. South Africa Space Mining Market
 - 8.5.3. Rest of Middle East & Africa Space Mining Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1 Company
 - 9.1.2 Company
 - 9.1.13 Company
- 9.2 Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1 SpaceX
 - 9.3.2. Blue Origin
 - 9.3.3. Planetary Resources, Inc.
 - 9.3.4. Deep Space Industries

- 9.3.5. Moon Express
- 9.3.6. iSpace
- 9.3.7. TransAstra Corporation
- 9.3.8. Asteroid Mining Corporation
- 9.3.9. Bradford Space
- 9.3.10. Shackleton Energy Company

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Space Mining market, report scope

TABLE 2. Global Space Mining market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Space Mining market estimates & forecasts by Technique 2022-2032 (USD Billion)

TABLE 4. Global Space Mining market estimates & forecasts by Resource Extraction 2022-2032 (USD Billion)

TABLE 5. Global Space Mining market estimates & forecasts by Infrastructure 2022-2032 (USD Billion)

TABLE 6. Global Space Mining market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global Space Mining market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Space Mining market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Space Mining market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Space Mining market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Space Mining market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Space Mining market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Space Mining market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Space Mining market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Space Mining market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Space Mining market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Space Mining market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Space Mining market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Space Mining market estimates & forecasts by segment 2022-2032

(USD Billion)

TABLE 20. Canada Space Mining market estimates & forecasts by segment 2022-2032

(USD Billion)

List Of Figures

LIST OF FIGURES

- FIG 1. Global Space Mining market, research methodology
- FIG 2. Global Space Mining market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Space Mining market, key trends 2023
- FIG 5. Global Space Mining market, growth prospects 2022-2032
- FIG 6. Global Space Mining market, porters 5 force model
- FIG 7. Global Space Mining market, PESTEL analysis
- FIG 8. Global Space Mining market, value chain analysis
- FIG 9. Global Space Mining market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Space Mining market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Space Mining market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Space Mining market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Space Mining market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Space Mining market, regional snapshot 2022 & 2032
- FIG 15. North America Space Mining market 2022 & 2032 (USD Billion)
- FIG 16. Europe Space Mining market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Space Mining market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Space Mining market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Space Mining market 2022 & 2032 (USD Billion)
- FIG 20. Global Space Mining market, company market share analysis (2023)

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