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Global Lunar Regolith Oxygen Extraction Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lunar Regolith Oxygen Extraction Equipment market size is expected to reach $ 2080 million by 2032, rising at a market growth of 16.2% CAGR during the forecast period (2026-2032).

Lunar Regolith Oxygen Extraction Equipment refers to the specialized hardware systems designed to extract oxygen from lunar regolith (the layer of loose, unconsolidated rock and dust covering the Moon's surface) through various physicochemical processes. Lunar regolith contains approximately 45% oxygen by weight, but the oxygen is chemically bound to metals such as iron, titanium, and silicon in the form of oxides. Oxygen extraction equipment processes regolith through technologies including molten regolith electrolysis (MRE), carbothermal reduction, hydrogen reduction, and molten salt electrolysis to liberate oxygen for life support systems and propellant production. These systems are critical components of In-Situ Resource Utilization (ISRU) infrastructure, enabling sustainable long-duration lunar missions and permanent lunar bases by reducing dependence on Earth-supplied resources. The global average selling price for lunar oxygen extraction systems is approximately US$2,800,000 per unit. The average sales volume in the base year is estimated at 250 units. The industry average gross margin is approximately 40%, with typical ranges between 30% and 50%, reflecting the high-value, technology-intensive nature of space resource utilization equipment. The upstream segment includes manufacturers of high-temperature reactors, electrolysis cells, power systems, thermal management components, and structural materials capable of withstanding lunar environmental conditions. The midstream segment comprises oxygen extraction system developers and integrators that design, assemble, and test complete systems. The downstream segment encompasses government space agencies (NASA, ESA, CNSA), commercial space companies, research institutes, and lunar base operators that utilize

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these systems for life support, propellant production, and lunar industrialization.

Lunar regolith oxygen extraction equipment is emerging as a strategic technology for long-duration lunar exploration and future lunar infrastructure. Because transporting oxygen from Earth is costly and logistically difficult, extracting oxygen directly from lunar materials can support crewed missions, propellant supply, surface power systems, and local manufacturing. The market is still in an early demonstration stage, but development activity is increasing as space agencies and commercial space companies move toward sustained lunar presence. Product development is focused on high-temperature reliability, autonomous operation, dust-tolerant feeding systems, efficient oxygen separation, low-mass reactor design, scalable processing capacity, and compatibility with harsh lunar surface conditions. As lunar missions shift from short visits to infrastructure construction, oxygen extraction systems are expected to become an important part of the lunar ISRU equipment ecosystem.

This report studies the global Lunar Regolith Oxygen Extraction Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lunar Regolith Oxygen Extraction Equipment and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lunar Regolith Oxygen Extraction Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Lunar Regolith Oxygen Extraction Equipment total production and demand, 2021-2032, (Units)
Global Lunar Regolith Oxygen Extraction Equipment total production value, 2021-2032, (USD Million)
Global Lunar Regolith Oxygen Extraction Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Lunar Regolith Oxygen Extraction Equipment consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Lunar Regolith Oxygen Extraction Equipment domestic production, consumption, key domestic manufacturers and share
Global Lunar Regolith Oxygen Extraction Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

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Global Lunar Regolith Oxygen Extraction Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Lunar Regolith Oxygen Extraction Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lunar Regolith Oxygen Extraction Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Blue Origin, Lunar Resources, Helios, Metalysis, Airbus Defence and Space, Space Applications Services, Eta Space, Honeybee Robotics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lunar Regolith Oxygen Extraction Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lunar Regolith Oxygen Extraction Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global Lunar Regolith Oxygen Extraction Equipment Market, Segmentation by Type:

Molten Regolith Electrolysis Equipment

Molten Salt Electrolysis Equipment

Carbothermal Reduction Equipment

Hydrogen Reduction Equipment

Solid Oxide Electrolysis Equipment

Global Lunar Regolith Oxygen Extraction Equipment Market, Segmentation by Reactor Type:

Batch Reactor System

Continuous Reactor System

Global Lunar Regolith Oxygen Extraction Equipment Market, Segmentation by Automation Level:

Manual Test Equipment

Semi-Automated Equipment

Fully Automated Equipment

Global Lunar Regolith Oxygen Extraction Equipment Market, Segmentation by Application:

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Lunar Exploration

Space Resources Utilization

Lunar Base Construction

Others

Companies Profiled:

Blue Origin

Lunar Resources

Helios

Metalysis

Airbus Defence and Space

Space Applications Services

Eta Space

Honeybee Robotics

Key Questions Answered:
1. How big is the global Lunar Regolith Oxygen Extraction Equipment market?
2. What is the demand of the global Lunar Regolith Oxygen Extraction Equipment market?
3. What is the year over year growth of the global Lunar Regolith Oxygen Extraction Equipment market?
4. What is the production and production value of the global Lunar Regolith Oxygen Extraction Equipment market?
5. Who are the key producers in the global Lunar Regolith Oxygen Extraction Equipment market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Lunar Regolith Oxygen Extraction Equipment Introduction
1.2 World Lunar Regolith Oxygen Extraction Equipment Supply & Forecast
  1.2.1 World Lunar Regolith Oxygen Extraction Equipment Production Value (2021 & 2025 & 2032)
  1.2.2 World Lunar Regolith Oxygen Extraction Equipment Production (2021-2032)
  1.2.3 World Lunar Regolith Oxygen Extraction Equipment Pricing Trends (2021-2032)
1.3 World Lunar Regolith Oxygen Extraction Equipment Production by Region (Based on Production Site)
  1.3.1 World Lunar Regolith Oxygen Extraction Equipment Production Value by Region (2021-2032)
  1.3.2 World Lunar Regolith Oxygen Extraction Equipment Production by Region (2021-2032)
  1.3.3 World Lunar Regolith Oxygen Extraction Equipment Average Price by Region (2021-2032)
  1.3.4 North America Lunar Regolith Oxygen Extraction Equipment Production (2021-2032)
  1.3.5 Europe Lunar Regolith Oxygen Extraction Equipment Production (2021-2032)
  1.3.6 China Lunar Regolith Oxygen Extraction Equipment Production (2021-2032)
  1.3.7 Japan Lunar Regolith Oxygen Extraction Equipment Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Lunar Regolith Oxygen Extraction Equipment Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Lunar Regolith Oxygen Extraction Equipment Major Market Trends

2 DEMAND SUMMARY

2.1 World Lunar Regolith Oxygen Extraction Equipment Demand (2021-2032)
2.2 World Lunar Regolith Oxygen Extraction Equipment Consumption by Region
  2.2.1 World Lunar Regolith Oxygen Extraction Equipment Consumption by Region (2021-2026)
  2.2.2 World Lunar Regolith Oxygen Extraction Equipment Consumption Forecast by Region (2027-2032)
2.3 United States Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032)
2.4 China Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032)

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2.5 Europe Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032)
2.6 Japan Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032)
2.7 South Korea Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032)
2.8 ASEAN Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032)
2.9 India Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Lunar Regolith Oxygen Extraction Equipment Production Value by Manufacturer (2021-2026)
3.2 World Lunar Regolith Oxygen Extraction Equipment Production by Manufacturer (2021-2026)
3.3 World Lunar Regolith Oxygen Extraction Equipment Average Price by Manufacturer (2021-2026)
3.4 Lunar Regolith Oxygen Extraction Equipment Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Lunar Regolith Oxygen Extraction Equipment Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Lunar Regolith Oxygen Extraction Equipment in 2025
  3.5.3 Global Concentration Ratios (CR8) for Lunar Regolith Oxygen Extraction Equipment in 2025
3.6 Lunar Regolith Oxygen Extraction Equipment Market: Overall Company Footprint Analysis
  3.6.1 Lunar Regolith Oxygen Extraction Equipment Market: Region Footprint
  3.6.2 Lunar Regolith Oxygen Extraction Equipment Market: Company Product Type Footprint
  3.6.3 Lunar Regolith Oxygen Extraction Equipment Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

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4.1 United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Value Comparison
4.1.1 United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Comparison
4.2.1 United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Lunar Regolith Oxygen Extraction Equipment Consumption Comparison
4.3.1 United States VS China: Lunar Regolith Oxygen Extraction Equipment Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Lunar Regolith Oxygen Extraction Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Lunar Regolith Oxygen Extraction Equipment Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Lunar Regolith Oxygen Extraction Equipment Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Value (2021-2026)
4.4.3 United States Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production (2021-2026)
4.5 China Based Lunar Regolith Oxygen Extraction Equipment Manufacturers and Market Share
4.5.1 China Based Lunar Regolith Oxygen Extraction Equipment Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Value (2021-2026)
4.5.3 China Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production (2021-2026)
4.6 Rest of World Based Lunar Regolith Oxygen Extraction Equipment Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Lunar Regolith Oxygen Extraction Equipment Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Lunar Regolith Oxygen Extraction

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Equipment Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Lunar Regolith Oxygen Extraction Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Molten Regolith Electrolysis Equipment
5.2.2 Molten Salt Electrolysis Equipment
5.2.3 Carbothermal Reduction Equipment
5.2.4 Hydrogen Reduction Equipment
5.2.5 Solid Oxide Electrolysis Equipment
5.3 Market Segment by Type
5.3.1 World Lunar Regolith Oxygen Extraction Equipment Production by Type (2021-2032)
5.3.2 World Lunar Regolith Oxygen Extraction Equipment Production Value by Type (2021-2032)
5.3.3 World Lunar Regolith Oxygen Extraction Equipment Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY REACTOR TYPE

6.1 World Lunar Regolith Oxygen Extraction Equipment Market Size Overview by Reactor Type: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Reactor Type
6.2.1 Batch Reactor System
6.2.2 Continuous Reactor System
6.3 Market Segment by Reactor Type
6.3.1 World Lunar Regolith Oxygen Extraction Equipment Production by Reactor Type (2021-2032)
6.3.2 World Lunar Regolith Oxygen Extraction Equipment Production Value by Reactor Type (2021-2032)
6.3.3 World Lunar Regolith Oxygen Extraction Equipment Average Price by Reactor Type (2021-2032)

7 MARKET ANALYSIS BY AUTOMATION LEVEL

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7.1 World Lunar Regolith Oxygen Extraction Equipment Market Size Overview by Automation Level: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Automation Level
  7.2.1 Manual Test Equipment
  7.2.2 Semi-Automated Equipment
  7.2.3 Fully Automated Equipment
7.3 Market Segment by Automation Level
  7.3.1 World Lunar Regolith Oxygen Extraction Equipment Production by Automation Level (2021-2032)
  7.3.2 World Lunar Regolith Oxygen Extraction Equipment Production Value by Automation Level (2021-2032)
  7.3.3 World Lunar Regolith Oxygen Extraction Equipment Average Price by Automation Level (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Lunar Regolith Oxygen Extraction Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
  8.2.1 Lunar Exploration
  8.2.2 Space Resources Utilization
  8.2.3 Lunar Base Construction
  8.2.4 Others
8.3 Market Segment by Application
  8.3.1 World Lunar Regolith Oxygen Extraction Equipment Production by Application (2021-2032)
  8.3.2 World Lunar Regolith Oxygen Extraction Equipment Production Value by Application (2021-2032)
  8.3.3 World Lunar Regolith Oxygen Extraction Equipment Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Blue Origin
  9.1.1 Blue Origin Details
  9.1.2 Blue Origin Major Business
  9.1.3 Blue Origin Lunar Regolith Oxygen Extraction Equipment Product and Services
  9.1.4 Blue Origin Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.1.5 Blue Origin Recent Developments/Updates
9.1.6 Blue Origin Competitive Strengths & Weaknesses
9.2 Lunar Resources
9.2.1 Lunar Resources Details
9.2.2 Lunar Resources Major Business
9.2.3 Lunar Resources Lunar Regolith Oxygen Extraction Equipment Product and Services
9.2.4 Lunar Resources Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Lunar Resources Recent Developments/Updates
9.2.6 Lunar Resources Competitive Strengths & Weaknesses
9.3 Helios
9.3.1 Helios Details
9.3.2 Helios Major Business
9.3.3 Helios Lunar Regolith Oxygen Extraction Equipment Product and Services
9.3.4 Helios Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Helios Recent Developments/Updates
9.3.6 Helios Competitive Strengths & Weaknesses
9.4 Metalysis
9.4.1 Metalysis Details
9.4.2 Metalysis Major Business
9.4.3 Metalysis Lunar Regolith Oxygen Extraction Equipment Product and Services
9.4.4 Metalysis Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Metalysis Recent Developments/Updates
9.4.6 Metalysis Competitive Strengths & Weaknesses
9.5 Airbus Defence and Space
9.5.1 Airbus Defence and Space Details
9.5.2 Airbus Defence and Space Major Business
9.5.3 Airbus Defence and Space Lunar Regolith Oxygen Extraction Equipment Product and Services
9.5.4 Airbus Defence and Space Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Airbus Defence and Space Recent Developments/Updates
9.5.6 Airbus Defence and Space Competitive Strengths & Weaknesses
9.6 Space Applications Services
9.6.1 Space Applications Services Details
9.6.2 Space Applications Services Major Business

+357 96 030922
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9.6.3 Space Applications Services Lunar Regolith Oxygen Extraction Equipment Product and Services
9.6.4 Space Applications Services Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Space Applications Services Recent Developments/Updates
9.6.6 Space Applications Services Competitive Strengths & Weaknesses
9.7 Eta Space
9.7.1 Eta Space Details
9.7.2 Eta Space Major Business
9.7.3 Eta Space Lunar Regolith Oxygen Extraction Equipment Product and Services
9.7.4 Eta Space Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Eta Space Recent Developments/Updates
9.7.6 Eta Space Competitive Strengths & Weaknesses
9.8 Honeybee Robotics
9.8.1 Honeybee Robotics Details
9.8.2 Honeybee Robotics Major Business
9.8.3 Honeybee Robotics Lunar Regolith Oxygen Extraction Equipment Product and Services
9.8.4 Honeybee Robotics Lunar Regolith Oxygen Extraction Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Honeybee Robotics Recent Developments/Updates
9.8.6 Honeybee Robotics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Lunar Regolith Oxygen Extraction Equipment Industry Chain
10.2 Lunar Regolith Oxygen Extraction Equipment Upstream Analysis
10.2.1 Lunar Regolith Oxygen Extraction Equipment Core Raw Materials
10.2.2 Main Manufacturers of Lunar Regolith Oxygen Extraction Equipment Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Lunar Regolith Oxygen Extraction Equipment Production Mode
10.6 Lunar Regolith Oxygen Extraction Equipment Procurement Model
10.7 Lunar Regolith Oxygen Extraction Equipment Industry Sales Model and Sales Channels
10.7.1 Lunar Regolith Oxygen Extraction Equipment Sales Model
10.7.2 Lunar Regolith Oxygen Extraction Equipment Typical Distributors

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11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World Lunar Regolith Oxygen Extraction Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Lunar Regolith Oxygen Extraction Equipment Production Value by Region (2021-2026) & (USD Million)
Table 3. World Lunar Regolith Oxygen Extraction Equipment Production Value by Region (2027-2032) & (USD Million)
Table 4. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Region (2021-2026)
Table 5. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Region (2027-2032)
Table 6. World Lunar Regolith Oxygen Extraction Equipment Production by Region (2021-2026) & (Units)
Table 7. World Lunar Regolith Oxygen Extraction Equipment Production by Region (2027-2032) & (Units)
Table 8. World Lunar Regolith Oxygen Extraction Equipment Production Market Share by Region (2021-2026)
Table 9. World Lunar Regolith Oxygen Extraction Equipment Production Market Share by Region (2027-2032)
Table 10. World Lunar Regolith Oxygen Extraction Equipment Average Price by Region (2021-2026) & (K US$/Unit)
Table 11. World Lunar Regolith Oxygen Extraction Equipment Average Price by Region (2027-2032) & (K US$/Unit)
Table 12. Lunar Regolith Oxygen Extraction Equipment Major Market Trends
Table 13. World Lunar Regolith Oxygen Extraction Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World Lunar Regolith Oxygen Extraction Equipment Consumption by Region (2021-2026) & (Units)
Table 15. World Lunar Regolith Oxygen Extraction Equipment Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World Lunar Regolith Oxygen Extraction Equipment Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Lunar Regolith Oxygen Extraction Equipment Producers in 2025
Table 18. World Lunar Regolith Oxygen Extraction Equipment Production by Manufacturer (2021-2026) & (Units)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key Lunar Regolith Oxygen Extraction Equipment Producers in 2025
Table 20. World Lunar Regolith Oxygen Extraction Equipment Average Price by Manufacturer (2021-2026) & (K US$/Unit)
Table 21. Global Lunar Regolith Oxygen Extraction Equipment Company Evaluation Quadrant
Table 22. World Lunar Regolith Oxygen Extraction Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Lunar Regolith Oxygen Extraction Equipment Production Site of Key Manufacturer
Table 24. Lunar Regolith Oxygen Extraction Equipment Market: Company Product Type Footprint
Table 25. Lunar Regolith Oxygen Extraction Equipment Market: Company Product Application Footprint
Table 26. Lunar Regolith Oxygen Extraction Equipment Competitive Factors
Table 27. Lunar Regolith Oxygen Extraction Equipment New Entrant and Capacity Expansion Plans
Table 28. Lunar Regolith Oxygen Extraction Equipment Mergers & Acquisitions Activity
Table 29. United States VS China Lunar Regolith Oxygen Extraction Equipment Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Lunar Regolith Oxygen Extraction Equipment Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Lunar Regolith Oxygen Extraction Equipment Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Lunar Regolith Oxygen Extraction Equipment Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Market Share (2021-2026)
Table 37. China Based Lunar Regolith Oxygen Extraction Equipment Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Lunar Regolith Oxygen Extraction Equipment

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Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Market Share (2021-2026)
Table 42. Rest of World Based Lunar Regolith Oxygen Extraction Equipment Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Market Share (2021-2026)
Table 47. World Lunar Regolith Oxygen Extraction Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Lunar Regolith Oxygen Extraction Equipment Production by Type (2021-2026) & (Units)
Table 49. World Lunar Regolith Oxygen Extraction Equipment Production by Type (2027-2032) & (Units)
Table 50. World Lunar Regolith Oxygen Extraction Equipment Production Value by Type (2021-2026) & (USD Million)
Table 51. World Lunar Regolith Oxygen Extraction Equipment Production Value by Type (2027-2032) & (USD Million)
Table 52. World Lunar Regolith Oxygen Extraction Equipment Average Price by Type (2021-2026) & (K US$/Unit)
Table 53. World Lunar Regolith Oxygen Extraction Equipment Average Price by Type (2027-2032) & (K US$/Unit)
Table 54. World Lunar Regolith Oxygen Extraction Equipment Production Value by Reactor Type, (USD Million), 2021 & 2025 & 2032
Table 55. World Lunar Regolith Oxygen Extraction Equipment Production by Reactor Type (2021-2026) & (Units)
Table 56. World Lunar Regolith Oxygen Extraction Equipment Production by Reactor Type (2027-2032) & (Units)
Table 57. World Lunar Regolith Oxygen Extraction Equipment Production Value by Reactor Type (2021-2026) & (USD Million)
Table 58. World Lunar Regolith Oxygen Extraction Equipment Production Value by Reactor Type (2027-2032) & (USD Million)

+357 96 030922
info@marketpublishers.com

Table 59. World Lunar Regolith Oxygen Extraction Equipment Average Price by Reactor Type (2021-2026) & (K US$/Unit)
Table 60. World Lunar Regolith Oxygen Extraction Equipment Average Price by Reactor Type (2027-2032) & (K US$/Unit)
Table 61. World Lunar Regolith Oxygen Extraction Equipment Production Value by Automation Level, (USD Million), 2021 & 2025 & 2032
Table 62. World Lunar Regolith Oxygen Extraction Equipment Production by Automation Level (2021-2026) & (Units)
Table 63. World Lunar Regolith Oxygen Extraction Equipment Production by Automation Level (2027-2032) & (Units)
Table 64. World Lunar Regolith Oxygen Extraction Equipment Production Value by Automation Level (2021-2026) & (USD Million)
Table 65. World Lunar Regolith Oxygen Extraction Equipment Production Value by Automation Level (2027-2032) & (USD Million)
Table 66. World Lunar Regolith Oxygen Extraction Equipment Average Price by Automation Level (2021-2026) & (K US$/Unit)
Table 67. World Lunar Regolith Oxygen Extraction Equipment Average Price by Automation Level (2027-2032) & (K US$/Unit)
Table 68. World Lunar Regolith Oxygen Extraction Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Lunar Regolith Oxygen Extraction Equipment Production by Application (2021-2026) & (Units)
Table 70. World Lunar Regolith Oxygen Extraction Equipment Production by Application (2027-2032) & (Units)
Table 71. World Lunar Regolith Oxygen Extraction Equipment Production Value by Application (2021-2026) & (USD Million)
Table 72. World Lunar Regolith Oxygen Extraction Equipment Production Value by Application (2027-2032) & (USD Million)
Table 73. World Lunar Regolith Oxygen Extraction Equipment Average Price by Application (2021-2026) & (K US$/Unit)
Table 74. World Lunar Regolith Oxygen Extraction Equipment Average Price by Application (2027-2032) & (K US$/Unit)
Table 75. Blue Origin Basic Information, Manufacturing Base and Competitors
Table 76. Blue Origin Major Business
Table 77. Blue Origin Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 78. Blue Origin Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 79. Blue Origin Recent Developments/Updates
Table 80. Blue Origin Competitive Strengths & Weaknesses
Table 81. Lunar Resources Basic Information, Manufacturing Base and Competitors
Table 82. Lunar Resources Major Business
Table 83. Lunar Resources Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 84. Lunar Resources Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Lunar Resources Recent Developments/Updates
Table 86. Lunar Resources Competitive Strengths & Weaknesses
Table 87. Helios Basic Information, Manufacturing Base and Competitors
Table 88. Helios Major Business
Table 89. Helios Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 90. Helios Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Helios Recent Developments/Updates
Table 92. Helios Competitive Strengths & Weaknesses
Table 93. Metalysis Basic Information, Manufacturing Base and Competitors
Table 94. Metalysis Major Business
Table 95. Metalysis Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 96. Metalysis Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Metalysis Recent Developments/Updates
Table 98. Metalysis Competitive Strengths & Weaknesses
Table 99. Airbus Defence and Space Basic Information, Manufacturing Base and Competitors
Table 100. Airbus Defence and Space Major Business
Table 101. Airbus Defence and Space Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 102. Airbus Defence and Space Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Airbus Defence and Space Recent Developments/Updates
Table 104. Airbus Defence and Space Competitive Strengths & Weaknesses
Table 105. Space Applications Services Basic Information, Manufacturing Base and Competitors

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Table 106. Space Applications Services Major Business
Table 107. Space Applications Services Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 108. Space Applications Services Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Space Applications Services Recent Developments/Updates
Table 110. Space Applications Services Competitive Strengths & Weaknesses
Table 111. Eta Space Basic Information, Manufacturing Base and Competitors
Table 112. Eta Space Major Business
Table 113. Eta Space Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 114. Eta Space Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Eta Space Recent Developments/Updates
Table 116. Eta Space Competitive Strengths & Weaknesses
Table 117. Honeybee Robotics Basic Information, Manufacturing Base and Competitors
Table 118. Honeybee Robotics Major Business
Table 119. Honeybee Robotics Lunar Regolith Oxygen Extraction Equipment Product and Services
Table 120. Honeybee Robotics Lunar Regolith Oxygen Extraction Equipment Production (Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Honeybee Robotics Recent Developments/Updates
Table 122. Honeybee Robotics Competitive Strengths & Weaknesses
Table 123. Global Key Players of Lunar Regolith Oxygen Extraction Equipment Upstream (Raw Materials)
Table 124. Global Lunar Regolith Oxygen Extraction Equipment Typical Customers
Table 125. Lunar Regolith Oxygen Extraction Equipment Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Lunar Regolith Oxygen Extraction Equipment Picture
Figure 2. World Lunar Regolith Oxygen Extraction Equipment Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Lunar Regolith Oxygen Extraction Equipment Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Lunar Regolith Oxygen Extraction Equipment Production (2021-2032) & (Units)
Figure 5. World Lunar Regolith Oxygen Extraction Equipment Average Price (2021-2032) & (K US$/Unit)
Figure 6. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Region (2021-2032)
Figure 7. World Lunar Regolith Oxygen Extraction Equipment Production Market Share by Region (2021-2032)
Figure 8. North America Lunar Regolith Oxygen Extraction Equipment Production (2021-2032) & (Units)
Figure 9. Europe Lunar Regolith Oxygen Extraction Equipment Production (2021-2032) & (Units)
Figure 10. China Lunar Regolith Oxygen Extraction Equipment Production (2021-2032) & (Units)
Figure 11. Japan Lunar Regolith Oxygen Extraction Equipment Production (2021-2032) & (Units)
Figure 12. Lunar Regolith Oxygen Extraction Equipment Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)
Figure 15. World Lunar Regolith Oxygen Extraction Equipment Consumption Market Share by Region (2021-2032)
Figure 16. United States Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)
Figure 17. China Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)
Figure 18. Europe Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)
Figure 19. Japan Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)

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Figure 20. South Korea Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)
Figure 21. ASEAN Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)
Figure 22. India Lunar Regolith Oxygen Extraction Equipment Consumption (2021-2032) & (Units)
Figure 23. Producer Shipments of Lunar Regolith Oxygen Extraction Equipment by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Lunar Regolith Oxygen Extraction Equipment Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Lunar Regolith Oxygen Extraction Equipment Markets in 2025
Figure 26. United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Lunar Regolith Oxygen Extraction Equipment Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Lunar Regolith Oxygen Extraction Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Market Share 2025
Figure 30. China Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Lunar Regolith Oxygen Extraction Equipment Production Market Share 2025
Figure 32. World Lunar Regolith Oxygen Extraction Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Type in 2025
Figure 34. Molten Regolith Electrolysis Equipment
Figure 35. Molten Salt Electrolysis Equipment
Figure 36. Carbothermal Reduction Equipment
Figure 37. Hydrogen Reduction Equipment
Figure 38. Solid Oxide Electrolysis Equipment
Figure 39. World Lunar Regolith Oxygen Extraction Equipment Production Market Share by Type (2021-2032)
Figure 40. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Type (2021-2032)
Figure 41. World Lunar Regolith Oxygen Extraction Equipment Average Price by Type (2021-2032) & (K US$/Unit)

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Figure 42. World Lunar Regolith Oxygen Extraction Equipment Production Value by Reactor Type, (USD Million), 2021 & 2025 & 2032
Figure 43. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Reactor Type in 2025
Figure 44. Batch Reactor System
Figure 45. Continuous Reactor System
Figure 46. World Lunar Regolith Oxygen Extraction Equipment Production Market Share by Reactor Type (2021-2032)
Figure 47. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Reactor Type (2021-2032)
Figure 48. World Lunar Regolith Oxygen Extraction Equipment Average Price by Reactor Type (2021-2032) & (K US$/Unit)
Figure 49. World Lunar Regolith Oxygen Extraction Equipment Production Value by Automation Level, (USD Million), 2021 & 2025 & 2032
Figure 50. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Automation Level in 2025
Figure 51. Manual Test Equipment
Figure 52. Semi-Automated Equipment
Figure 53. Fully Automated Equipment
Figure 54. World Lunar Regolith Oxygen Extraction Equipment Production Market Share by Automation Level (2021-2032)
Figure 55. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Automation Level (2021-2032)
Figure 56. World Lunar Regolith Oxygen Extraction Equipment Average Price by Automation Level (2021-2032) & (K US$/Unit)
Figure 57. World Lunar Regolith Oxygen Extraction Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 58. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Application in 2025
Figure 59. Lunar Exploration
Figure 60. Space Resources Utilization
Figure 61. Lunar Base Construction
Figure 62. Others
Figure 63. World Lunar Regolith Oxygen Extraction Equipment Production Market Share by Application (2021-2032)
Figure 64. World Lunar Regolith Oxygen Extraction Equipment Production Value Market Share by Application (2021-2032)
Figure 65. World Lunar Regolith Oxygen Extraction Equipment Average Price by Application (2021-2032) & (K US$/Unit)

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Figure 66. Lunar Regolith Oxygen Extraction Equipment Industry Chain
Figure 67. Lunar Regolith Oxygen Extraction Equipment Procurement Model
Figure 68. Lunar Regolith Oxygen Extraction Equipment Sales Model
Figure 69. Lunar Regolith Oxygen Extraction Equipment Sales Channels, Direct Sales, and Distribution
Figure 70. Methodology
Figure 71. Research Process and Data Source

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