

Global Lunar Helium-3 Mining Equipment Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Lunar Helium-3 Mining Equipment market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

Lunar helium-3 mining equipment is a collective term for a series of automated machines and systems specifically designed for the extraction, processing, and utilization of helium-3 resources on the lunar surface. Helium-3 is a clean and efficient nuclear fusion fuel, injected into the lunar regolith by the solar wind and accumulating over long periods. These devices typically employ highly automated and robotic technologies, enabling stable operation in the extreme lunar environment. The workflow includes: scanning the lunar regolith with probes to identify enriched areas; collecting lunar regolith using excavation tools; releasing and extracting helium-3 gas from the regolith through heating and separation techniques; and finally, liquefying and storing the gas.

The prospects for lunar helium-3 mining equipment are promising, primarily in terms of energy supply, expansion of the space economy, and technological innovation. With the development of nuclear fusion technology and the increasing demand for clean energy, helium-3, as a highly efficient and low-radioactive fusion fuel, may solve Earth's energy crisis in the future, and its mining equipment will become key to the commercialization of space resources. It is estimated that lunar helium-3 reserves could meet human energy needs for tens of thousands of years. In the short term, the equipment, optimized through robotic mining and ISRU technology, will support the construction of lunar bases, providing resources for life support, propellant production, and building material manufacturing. In the medium to long term, with advancements in autonomy, artificial intelligence, and materials science, equipment will evolve into a ?fully

autonomous space factory,? enabling large-scale mining and cross-celestial applications of helium-3, and spawning new industrial chains such as space transportation and processing. Despite challenges such as high costs, technological complexity, and a lack of legal framework, global cooperation and investment from private enterprises are propelling this field towards reality, ultimately injecting new momentum into human deep space exploration and sustainable development.

This report presents a comprehensive overview, market shares, and growth opportunities of Lunar Helium-3 Mining Equipment market by product type, application, key players and key regions and countries.

Segmentation by Type:

Exploration And Detection Equipment

Excavation And Mining Equipment

Conveying And Handling Equipment

Others

Segmentation by Types of Walking Devices:

Tracked Type

Wheeled Type

Segmentation by Technology Readiness Level (TRL):

Proof-of-Concept Device (TRL 1?3)

Engineering Prototype Device (TRL 4?6)

Space Validation Device (TRL 7?9)

Segmentation by Application:

Enterprises

Government

Research Institutions

Others

This report also splits the market by region:

United States

China

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Interlune

Vermeer

Komatsu

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