

# **Space Propulsion System Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Class of Orbit (Elliptical, GEO, LEO, MEO), By End User (Civil and Earth Observation, Government and Military, Commercial), By Type (Chemical Propulsion, Non Chemical Propulsion), By Region & Competition, 2019-2029F**

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## **Abstracts**

The Global Space Propulsion System Market size reached USD 13.38 billion in 2023 and is expected to grow with a CAGR of 7.48% in the forecast period. The global space propulsion system market encompasses a range of technologies essential for maneuvering spacecraft in outer space. These propulsion systems are crucial for launching satellites into orbit, conducting deep space missions, and maneuvering spacecraft for various applications such as communication, Earth observation, and scientific exploration. Key propulsion technologies include chemical propulsion systems utilizing liquid or solid propellants, which generate thrust through chemical reactions. These systems are reliable and widely used for satellite launches and initial spacecraft maneuvers.

In addition to chemical propulsion, electric propulsion systems have gained prominence in recent years due to their efficiency and effectiveness in long-duration missions. Electric propulsion systems use electric or electromagnetic forces to accelerate propellant ions, offering higher specific impulse compared to chemical systems. This results in fuel efficiency and extended mission durations, making electric propulsion ideal for deep space missions and satellite station-keeping. Advanced propulsion concepts such as nuclear thermal propulsion and solar sail propulsion are also under development, promising new capabilities for future space exploration missions.

The market for space propulsion systems is driven by increasing demand for satellite launches, ongoing exploration missions to celestial bodies, and advancements in satellite technology. Governments and private companies are investing heavily in space exploration, driving innovation and adoption of advanced propulsion technologies. Challenges include the high cost of development and deployment of propulsion systems, regulatory constraints, and the need for reliable and efficient systems to support long-duration missions and interplanetary travel. Despite these challenges, the market presents opportunities for growth with advancements in materials science, propulsion efficiency, and the emergence of new space missions driven by scientific discovery and commercial interests in space tourism and resource utilization.

### Key Market Drivers

#### Space Exploration Ambitions and Satellite Deployment

The growing aspirations for space exploration are evident in missions like NASA's Artemis program, which aims to return humans to the Moon, and SpaceX's plans for Mars colonization. These missions require advanced propulsion systems capable of long-duration travel, orbital maneuvers, and lunar or Martian landings. The global demand for satellite-based services, including telecommunications, Earth observation, and global positioning, is soaring. The successful deployment and maintenance of satellite constellations rely on efficient propulsion systems to reach precise orbits and perform station-keeping maneuvers.

#### Commercial Space Industry

The commercial space sector, led by companies like SpaceX, Blue Origin, and Virgin Galactic, is reshaping the industry. These firms are driving innovation, cost reduction, and increased accessibility to space. Competition among them fosters the development of more efficient propulsion systems. Small satellites, particularly CubeSats and nanosatellites, are increasingly prevalent due to their lower launch costs and versatility. Miniaturized propulsion systems are in demand to enable these small satellites to change orbits, rendezvous with other satellites, or deorbit safely.

#### Fuel Efficiency, Satellite Deployment and Environmental Concerns

The desire for prolonged missions and reduced launch costs has led to the adoption of electric propulsion systems. Ion and Hall-effect thrusters offer significantly greater fuel efficiency than traditional chemical propulsion, making them ideal for missions requiring extended durations and high delta-V maneuvers. Governments worldwide are investing in space technologies to enhance national security. Advanced propulsion systems are essential for surveillance, reconnaissance, and early warning systems in space, which are crucial for national defense. Environmental consciousness extends to space. There's a push for cleaner propulsion technologies that emit fewer pollutants. Researchers are exploring green propellants and alternative technologies

like solar sails, which use sunlight for propulsion.

#### Collaboration and International Partnerships

Major collaborative projects, such as the International Space Station (ISS), demonstrate the power of international cooperation. These partnerships foster research and development in propulsion technology, as seen in NASA's collaborations with international space agencies. These drivers collectively fuel progress in space propulsion systems, pushing the boundaries of technology to enable a wide range of space missions, from scientific exploration to commercial ventures, and contributing to the broader transformation of the space industry. In 2023, RocketStar, a US-based startup, has successfully demonstrated an electric propulsion unit for spacecraft that utilizes nuclear fusion-enhanced pulsed plasma. Known as the FireStar Drive, this innovative system is fueled by water and integrates aneutronic nuclear fusion to enhance its performance. During testing, RocketStar's propulsion system ionized water vapor to generate high-speed protons. These protons collided with boron nuclei, initiating a fusion reaction that produced high-energy carbon and alpha particles. This fusion process operates similarly to an afterburner in a jet engine, effectively enhancing the thruster's performance by introducing boron into the exhaust. Originally developed as part of the US Air Force's AFWERX initiative, the technology underwent rigorous validation at the Georgia Institute of Technology's HPEPL in Atlanta, where it demonstrated a remarkable 50% increase in thrust.

#### Key Market Challenges

##### Technical Complexity

Propulsion systems used in space must operate flawlessly in the extreme conditions of space, including vacuum, extreme temperatures, and radiation exposure. Ensuring the reliability and durability of these systems is a significant technical challenge. In 2024, in a groundbreaking achievement, scientists have unveiled the world's first nuclear fusion-powered electric propulsion drive. Developed through a collaborative effort between leading aerospace companies and research institutions, this innovative drive promises to revolutionize space travel by offering unprecedented efficiency and sustainability. Harnessing the power of nuclear fusion, the propulsion system aims to enable faster and more cost-effective missions to distant planets and asteroids. Initial tests have demonstrated promising results, highlighting its potential to reduce travel times and enhance spacecraft maneuverability. This milestone marks a significant advancement in propulsion technology, setting the stage for future deep space exploration missions.

##### Environmental Concerns

While propulsion systems are essential for space exploration, they can contribute to space debris and pose environmental risks. Minimizing space debris and ensuring responsible propulsion system disposal are growing concerns. Ensuring the safety and reliability of propulsion systems for crewed missions is paramount. Space agencies and

manufacturers must continuously improve safety measures to mitigate potential risks to astronauts and spacecraft.

#### Integration Complexity

Integrating propulsion systems into spacecraft and launch vehicles can be complex. Achieving seamless compatibility and ensuring that propulsion components do not interfere with other systems is a technical challenge. The space industry is subject to a complex web of international regulations and treaties. Complying with these legal frameworks, including export controls and space traffic management, can be challenging.

#### Supply Chain Vulnerabilities

Space propulsion systems often rely on a global supply chain for components and materials. Disruptions in the supply chain, whether due to geopolitical tensions or natural disasters, can impact production and launch schedules. The growing number of players in the space industry has led to increased competition. Market fragmentation can make it challenging for manufacturers to secure contracts and maintain profitability. These challenges, while significant, also present opportunities for innovation and collaboration within the Global Space Propulsion System Market. Overcoming these obstacles is crucial for the continued advancement of space exploration and technology.

#### Key Market Trends

##### Advancements in Green Propellants

The development of environmentally friendly propellants, known as 'green propellants,' is gaining traction. These propellants are less toxic and produce fewer harmful byproducts, aligning with growing environmental concerns. In 2024, The DRDO successfully launched a green propulsion system for microsatellites, marking a milestone in space technology. Developed by Bengaluru-based start-up Bellatrix Aerospace Pvt Ltd, the 1N Class Green Monopropellant thruster aims to control altitude and maintain orbit for microsatellites. Telemetry data from the PSLV Orbital Experimental Module (POEM) at ISRO's Telemetry, Tracking, and Command Network (ISTRAC) in Bengaluru validated the system, exceeding all performance parameters. This innovative technology offers a non-toxic and environmentally friendly propulsion solution for low-orbit space missions. The system includes indigenously developed components like propellant, valves, catalyst bed, and drive electronics, making it ideal for missions requiring high thrust, according to the ministry.

##### Innovations in Nuclear Propulsion

Nuclear propulsion is being explored for deep-space missions due to its potential for faster travel and reduced mission durations. Research and development efforts in this area are on the rise. With the increasing deployment of small satellites, there's a growing demand for miniaturized propulsion systems. These systems enable small

satellites maneuver, change orbits, and extend their operational lifetimes.

### Commercialization of Space Activities

The commercial space sector is driving innovation and cost reduction in propulsion technology. Companies like SpaceX and Blue Origin are pushing the boundaries of what is possible and making space more accessible. Solar sail technology, which harnesses sunlight for propulsion, is gaining attention for interplanetary missions. It offers an inexhaustible source of propulsion and the potential for extremely long missions.

### Additive Manufacturing (3D Printing)

The use of additive manufacturing, or 3D printing, in the production of propulsion components is increasing. It allows for more complex and efficient designs, reducing production costs and lead times. The focus on interplanetary exploration, including missions to Mars and beyond, is driving the development of advanced propulsion systems capable of handling the rigors of deep-space travel. These trends collectively reflect the industry's commitment to advancing propulsion technology, enhancing mission capabilities, and reducing the environmental footprint of space activities. As space exploration continues to expand, these trends will play a pivotal role in shaping the future of the Global Space Propulsion System Market.

### Segmental Insights

#### Class of Orbit Insights

The global space propulsion system market is segmented by class of orbit into Elliptical, Geostationary Earth Orbit (GEO), Low Earth Orbit (LEO), and Medium Earth Orbit (MEO), catering to diverse satellite and spacecraft requirements. Elliptical orbits offer satellites variable distances from Earth, enabling broad coverage while maintaining proximity to the planet, which is advantageous for communication and observation missions. Medium Earth Orbit (MEO) has firmly established itself as the primary class of orbit within the space propulsion system market, marking a pivotal evolution in satellite technology. Positioned between Low Earth Orbit (LEO) and Geostationary Orbit (GEO), MEO satellites typically operate at altitudes ranging from 2,000 to 36,000 kilometers above the Earth's surface. This strategic placement offers a balance between the coverage area and the signal latency, making MEO satellites ideal for a wide array of applications. One of the key advantages of MEO is its ability to provide global coverage with fewer satellites compared to LEO constellations, which require a larger number of satellites due to their lower orbits. This efficiency in deployment and coverage makes MEO a cost-effective solution for communication, navigation, and Earth observation missions. Companies and governments around the world are increasingly leveraging MEO satellites to enhance telecommunications infrastructure, improve GPS navigation accuracy, monitor climate change, and support disaster management efforts. Moreover, advancements in propulsion systems have



significantly contributed to the growing dominance of MEO. Efficient electric propulsion technologies, such as ion thrusters and Hall effect thrusters, enable MEO satellites to maintain precise orbits and extend their operational lifetimes, thereby maximizing return on investment. As demand for high-speed internet, real-time data, and global connectivity continues to grow, MEO's role in the space propulsion system market is poised to expand further, driving innovation and transforming industries worldwide.

### Regional Insights

The global space propulsion system market, segmented by region into North America, Europe & CIS, Asia Pacific, South America, and Middle East & Africa, exhibits varied dynamics across different geographical areas. North America leads the market due to its advanced aerospace industry, significant investments in space exploration, and robust presence of space agencies and private aerospace companies. North America has emerged as the dominant leader in the space propulsion system market, bolstered by its advanced technological capabilities and robust industry infrastructure. The region's prominence is largely driven by its extensive investments in research and development, fostering innovation across various sectors of space propulsion. North American companies and organizations are at the forefront of developing cutting-edge propulsion technologies that propel spacecraft into various orbits, including Low Earth Orbit (LEO), Medium Earth Orbit (MEO), and Geostationary Orbit (GEO). Key players in North America are continuously pushing the boundaries of propulsion systems, incorporating advanced materials, efficient propulsion methods such as electric propulsion, and novel propulsion technologies like solar sails and nuclear thermal propulsion. These innovations not only enhance satellite capabilities but also contribute to reducing mission costs and improving sustainability in space operations. Furthermore, North America's leadership in the space propulsion system market is underpinned by a strong network of aerospace industry giants, research institutions, and government agencies like NASA. These entities collaborate closely to drive technological advancements and maintain a competitive edge in the global market. As space exploration and commercial satellite ventures continue to expand, North America's role as the dominant force in the space propulsion sector is expected to grow, influencing the trajectory of space missions and satellite deployments worldwide.

### Key Market Players

Space Exploration Technologies Corp.

The Boeing Company

Blue Origin Enterprises, L.P.

Moog Inc.

L3Harris Technologies, Inc.

Avioli S.p.A.

International Astronautical Federation

OHB SE

IHI Corporation

Sierra Nevada Corporation

#### Report Scope:

In this report, the Global Space Propulsion System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Space Propulsion System Market, By Class of Orbit:

Elliptical

GEO

LEO

MEO

#### Space Propulsion System Market, By End User:

Civil and Earth Observation

Government and Military

Commercial

## Space Propulsion System Market, By Type:

Chemical Propulsion

Non-Chemical Propulsion

## Space Propulsion System Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

Asia-Pacific

China

India



Japan

Indonesia

Thailand

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Iran

Saudi Arabia

UAE

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Space Propulsion System Market.

#### Available Customizations:

Global Space Propulsion System Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up

t%li%five).

## Contents

### **1. INTRODUCTION**

- 1.1. Market Overview
- 1.2. Key Highlights of the Report
- 1.3. Market Coverage
- 1.4. Market Segments Covered
- 1.5. Research Tenure Considered

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

### **4. IMPACT OF COVID-19 ON GLOBAL SPACE PROPULSION SYSTEM MARKET**

### **5. GLOBAL SPACE PROPULSION SYSTEM MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Class of Orbit Market Share Analysis (Elliptical, GEO, LEO, MEO)
  - 5.2.2. By End User Market Share Analysis (Civil and Earth Observation, Government and Military, Commercial)
  - 5.2.3. By Type Market Share Analysis (Chemical Propulsion, Non-Chemical Propulsion)

- 5.2.4. By Regional Market Share Analysis
  - 5.2.4.1. Asia-Pacific Market Share Analysis
  - 5.2.4.2. Europe & CIS Market Share Analysis
  - 5.2.4.3. North America Market Share Analysis
  - 5.2.4.4. South America Market Share Analysis
  - 5.2.4.5. Middle East & Africa Market Share Analysis
- 5.2.5. By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2023)
- 5.3. Global Space Propulsion System Market Mapping & Opportunity Assessment
  - 5.3.1. By Class of Orbit Market Mapping & Opportunity Assessment
  - 5.3.2. By End User Market Mapping & Opportunity Assessment
  - 5.3.3. By Type Market Mapping & Opportunity Assessment
  - 5.3.4. By Regional Market Mapping & Opportunity Assessment

## **6. ASIA-PACIFIC SPACE PROPULSION SYSTEM MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Class of Orbit Market Share Analysis
  - 6.2.2. By End User Market Share Analysis
  - 6.2.3. By Type Market Share Analysis
  - 6.2.4. By Country Market Share Analysis
    - 6.2.4.1. China Market Share Analysis
    - 6.2.4.2. India Market Share Analysis
    - 6.2.4.3. Japan Market Share Analysis
    - 6.2.4.4. Indonesia Market Share Analysis
    - 6.2.4.5. Thailand Market Share Analysis
    - 6.2.4.6. South Korea Market Share Analysis
    - 6.2.4.7. Australia Market Share Analysis
    - 6.2.4.8. Rest of Asia-Pacific Market Share Analysis
- 6.3. Asia-Pacific: Country Analysis
  - 6.3.1. China Space Propulsion System Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Class of Orbit Market Share Analysis
      - 6.3.1.2.2. By End User Market Share Analysis
      - 6.3.1.2.3. By Type Market Share Analysis

### 6.3.2. India Space Propulsion System Market Outlook

#### 6.3.2.1. Market Size & Forecast

##### 6.3.2.1.1. By Value

#### 6.3.2.2. Market Share & Forecast

##### 6.3.2.2.1. By Class of Orbit Market Share Analysis

##### 6.3.2.2.2. By End User Market Share Analysis

##### 6.3.2.2.3. By Type Market Share Analysis

### 6.3.3. Japan Space Propulsion System Market Outlook

#### 6.3.3.1. Market Size & Forecast

##### 6.3.3.1.1. By Value

#### 6.3.3.2. Market Share & Forecast

##### 6.3.3.2.1. By Class of Orbit Market Share Analysis

##### 6.3.3.2.2. By End User Market Share Analysis

##### 6.3.3.2.3. By Type Market Share Analysis

### 6.3.4. Indonesia Space Propulsion System Market Outlook

#### 6.3.4.1. Market Size & Forecast

##### 6.3.4.1.1. By Value

#### 6.3.4.2. Market Share & Forecast

##### 6.3.4.2.1. By Class of Orbit Market Share Analysis

##### 6.3.4.2.2. By End User Market Share Analysis

##### 6.3.4.2.3. By Type Market Share Analysis

### 6.3.5. Thailand Space Propulsion System Market Outlook

#### 6.3.5.1. Market Size & Forecast

##### 6.3.5.1.1. By Value

#### 6.3.5.2. Market Share & Forecast

##### 6.3.5.2.1. By Class of Orbit Market Share Analysis

##### 6.3.5.2.2. By End User Market Share Analysis

##### 6.3.5.2.3. By Type Market Share Analysis

### 6.3.6. South Korea Space Propulsion System Market Outlook

#### 6.3.6.1. Market Size & Forecast

##### 6.3.6.1.1. By Value

#### 6.3.6.2. Market Share & Forecast

##### 6.3.6.2.1. By Class of Orbit Market Share Analysis

##### 6.3.6.2.2. By End User Market Share Analysis

##### 6.3.6.2.3. By Type Market Share Analysis

### 6.3.7. Australia Space Propulsion System Market Outlook

#### 6.3.7.1. Market Size & Forecast

##### 6.3.7.1.1. By Value

#### 6.3.7.2. Market Share & Forecast

6.3.7.2.1. By Class of Orbit Market Share Analysis

6.3.7.2.2. By End User Market Share Analysis

6.3.7.2.3. By Type Market Share Analysis

## **7. EUROPE & CIS SPACE PROPULSION SYSTEM MARKET OUTLOOK**

### **7.1. Market Size & Forecast**

#### **7.1.1. By Value**

### **7.2. Market Share & Forecast**

#### **7.2.1. By Class of Orbit Market Share Analysis**

#### **7.2.2. By End User Market Share Analysis**

#### **7.2.3. By Type Market Share Analysis**

#### **7.2.4. By Country Market Share Analysis**

##### **7.2.4.1. Germany Market Share Analysis**

##### **7.2.4.2. Spain Market Share Analysis**

##### **7.2.4.3. France Market Share Analysis**

##### **7.2.4.4. Russia Market Share Analysis**

##### **7.2.4.5. Italy Market Share Analysis**

##### **7.2.4.6. United Kingdom Market Share Analysis**

##### **7.2.4.7. Belgium Market Share Analysis**

##### **7.2.4.8. Rest of Europe & CIS Market Share Analysis**

### **7.3. Europe & CIS: Country Analysis**

#### **7.3.1. Germany Space Propulsion System Market Outlook**

##### **7.3.1.1. Market Size & Forecast**

###### **7.3.1.1.1. By Value**

##### **7.3.1.2. Market Share & Forecast**

###### **7.3.1.2.1. By Class of Orbit Market Share Analysis**

###### **7.3.1.2.2. By End User Market Share Analysis**

###### **7.3.1.2.3. By Type Market Share Analysis**

#### **7.3.2. Spain Space Propulsion System Market Outlook**

##### **7.3.2.1. Market Size & Forecast**

###### **7.3.2.1.1. By Value**

##### **7.3.2.2. Market Share & Forecast**

###### **7.3.2.2.1. By Class of Orbit Market Share Analysis**

###### **7.3.2.2.2. By End User Market Share Analysis**

###### **7.3.2.2.3. By Type Market Share Analysis**

#### **7.3.3. France Space Propulsion System Market Outlook**

##### **7.3.3.1. Market Size & Forecast**

###### **7.3.3.1.1. By Value**



- 7.3.3.2. Market Share & Forecast
  - 7.3.3.2.1. By Class of Orbit Market Share Analysis
  - 7.3.3.2.2. By End User Market Share Analysis
  - 7.3.3.2.3. By Type Market Share Analysis
- 7.3.4. Russia Space Propulsion System Market Outlook
  - 7.3.4.1. Market Size & Forecast
    - 7.3.4.1.1. By Value
  - 7.3.4.2. Market Share & Forecast
    - 7.3.4.2.1. By Class of Orbit Market Share Analysis
    - 7.3.4.2.2. By End User Market Share Analysis
    - 7.3.4.2.3. By Type Market Share Analysis
- 7.3.5. Italy Space Propulsion System Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Class of Orbit Market Share Analysis
    - 7.3.5.2.2. By End User Market Share Analysis
    - 7.3.5.2.3. By Type Market Share Analysis
- 7.3.6. United Kingdom Space Propulsion System Market Outlook
  - 7.3.6.1. Market Size & Forecast
    - 7.3.6.1.1. By Value
  - 7.3.6.2. Market Share & Forecast
    - 7.3.6.2.1. By Class of Orbit Market Share Analysis
    - 7.3.6.2.2. By End User Market Share Analysis
    - 7.3.6.2.3. By Type Market Share Analysis
- 7.3.7. Belgium Space Propulsion System Market Outlook
  - 7.3.7.1. Market Size & Forecast
    - 7.3.7.1.1. By Value
  - 7.3.7.2. Market Share & Forecast
    - 7.3.7.2.1. By Class of Orbit Market Share Analysis
    - 7.3.7.2.2. By End User Market Share Analysis
    - 7.3.7.2.3. By Type Market Share Analysis

## **8. NORTH AMERICA SPACE PROPULSION SYSTEM MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Class of Orbit Market Share Analysis

- 8.2.2. By End User Market Share Analysis
- 8.2.3. By Type Market Share Analysis
- 8.2.4. By Country Market Share Analysis
  - 8.2.4.1. United States Market Share Analysis
  - 8.2.4.2. Mexico Market Share Analysis
  - 8.2.4.3. Canada Market Share Analysis
- 8.3. North America: Country Analysis
  - 8.3.1. United States Space Propulsion System Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Class of Orbit Market Share Analysis
      - 8.3.1.2.2. By End User Market Share Analysis
      - 8.3.1.2.3. By Type Market Share Analysis
  - 8.3.2. Mexico Space Propulsion System Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Class of Orbit Market Share Analysis
      - 8.3.2.2.2. By End User Market Share Analysis
      - 8.3.2.2.3. By Type Market Share Analysis
  - 8.3.3. Canada Space Propulsion System Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Class of Orbit Market Share Analysis
      - 8.3.3.2.2. By End User Market Share Analysis
      - 8.3.3.2.3. By Type Market Share Analysis

## **9. SOUTH AMERICA SPACE PROPULSION SYSTEM MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Class of Orbit Market Share Analysis
  - 9.2.2. By End User Market Share Analysis
  - 9.2.3. By Type Market Share Analysis
  - 9.2.4. By Country Market Share Analysis
    - 9.2.4.1. Brazil Market Share Analysis

- 9.2.4.2. Argentina Market Share Analysis
- 9.2.4.3. Colombia Market Share Analysis
- 9.2.4.4. Rest of South America Market Share Analysis
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Space Propulsion System Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Class of Orbit Market Share Analysis
      - 9.3.1.2.2. By End User Market Share Analysis
      - 9.3.1.2.3. By Type Market Share Analysis
  - 9.3.2. Colombia Space Propulsion System Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Class of Orbit Market Share Analysis
      - 9.3.2.2.2. By End User Market Share Analysis
      - 9.3.2.2.3. By Type Market Share Analysis
  - 9.3.3. Argentina Space Propulsion System Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Class of Orbit Market Share Analysis
      - 9.3.3.2.2. By End User Market Share Analysis
      - 9.3.3.2.3. By Type Market Share Analysis

## **10. MIDDLE EAST & AFRICA SPACE PROPULSION SYSTEM MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Class of Orbit Market Share Analysis
  - 10.2.2. By End User Market Share Analysis
  - 10.2.3. By Type Market Share Analysis
  - 10.2.4. By Country Market Share Analysis
    - 10.2.4.1. Turkey Market Share Analysis
    - 10.2.4.2. Iran Market Share Analysis
    - 10.2.4.3. Saudi Arabia Market Share Analysis
    - 10.2.4.4. UAE Market Share Analysis

- 10.2.4.5. Rest of Middle East & Africa Market Share Analysis
- 10.3. Middle East & Africa: Country Analysis
  - 10.3.1. Turkey Space Propulsion System Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Class of Orbit Market Share Analysis
      - 10.3.1.2.2. By End User Market Share Analysis
      - 10.3.1.2.3. By Type Market Share Analysis
  - 10.3.2. Iran Space Propulsion System Market Outlook
    - 10.3.2.1. Market Size & Forecast
      - 10.3.2.1.1. By Value
    - 10.3.2.2. Market Share & Forecast
      - 10.3.2.2.1. By Class of Orbit Market Share Analysis
      - 10.3.2.2.2. By End User Market Share Analysis
      - 10.3.2.2.3. By Type Market Share Analysis
  - 10.3.3. Saudi Arabia Space Propulsion System Market Outlook
    - 10.3.3.1. Market Size & Forecast
      - 10.3.3.1.1. By Value
    - 10.3.3.2. Market Share & Forecast
      - 10.3.3.2.1. By Class of Orbit Market Share Analysis
      - 10.3.3.2.2. By End User Market Share Analysis
      - 10.3.3.2.3. By Type Market Share Analysis
  - 10.3.4. UAE Space Propulsion System Market Outlook
    - 10.3.4.1. Market Size & Forecast
      - 10.3.4.1.1. By Value
    - 10.3.4.2. Market Share & Forecast
      - 10.3.4.2.1. By Class of Orbit Market Share Analysis
      - 10.3.4.2.2. By End User Market Share Analysis
      - 10.3.4.2.3. By Type Market Share Analysis

## **11. SWOT ANALYSIS**

- 11.1. Strength
- 11.2. Weakness
- 11.3. Opportunities
- 11.4. Threats

## **12. MARKET DYNAMICS**

12.1. Market Drivers

12.2. Market Challenges

## **13. MARKET TRENDS AND DEVELOPMENTS**

## **14. COMPETITIVE LANDSCAPE**

### **14.1. Company Profiles (Up to 10 Major Companies)**

#### **14.1.1. Space Exploration Technologies Corp.**

14.1.1.1. Company Details

14.1.1.2. Key Product Offered

14.1.1.3. Financials (As Per Availability)

14.1.1.4. Recent Developments

14.1.1.5. Key Management Personnel

#### **14.1.2. The Boeing Company**

14.1.2.1. Company Details

14.1.2.2. Key Product Offered

14.1.2.3. Financials (As Per Availability)

14.1.2.4. Recent Developments

14.1.2.5. Key Management Personnel

#### **14.1.3. Blue Origin Enterprises, L.P.**

14.1.3.1. Company Details

14.1.3.2. Key Product Offered

14.1.3.3. Financials (As Per Availability)

14.1.3.4. Recent Developments

14.1.3.5. Key Management Personnel

#### **14.1.4. Moog Inc.**

14.1.4.1. Company Details

14.1.4.2. Key Product Offered

14.1.4.3. Financials (As Per Availability)

14.1.4.4. Recent Developments

14.1.4.5. Key Management Personnel

#### **14.1.5. L3Harris Technologies, Inc.**

14.1.5.1. Company Details

14.1.5.2. Key Product Offered

14.1.5.3. Financials (As Per Availability)

14.1.5.4. Recent Developments

14.1.5.5. Key Management Personnel

- 14.1.6. Avio S.p.A.
  - 14.1.6.1. Company Details
  - 14.1.6.2. Key Product Offered
  - 14.1.6.3. Financials (As Per Availability)
  - 14.1.6.4. Recent Developments
  - 14.1.6.5. Key Management Personnel
- 14.1.7. International Astronautical Federation
  - 14.1.7.1. Company Details
  - 14.1.7.2. Key Product Offered
  - 14.1.7.3. Financials (As Per Availability)
  - 14.1.7.4. Recent Developments
  - 14.1.7.5. Key Management Personnel
- 14.1.8. OHB SE
  - 14.1.8.1. Company Details
  - 14.1.8.2. Key Product Offered
  - 14.1.8.3. Financials (As Per Availability)
  - 14.1.8.4. Recent Developments
  - 14.1.8.5. Key Management Personnel
- 14.1.9. IHI Corporation
  - 14.1.9.1. Company Details
  - 14.1.9.2. Key Product Offered
  - 14.1.9.3. Financials (As Per Availability)
  - 14.1.9.4. Recent Developments
  - 14.1.9.5. Key Management Personnel
- 14.1.10. Sierra Nevada Corporation
  - 14.1.10.1. Company Details
  - 14.1.10.2. Key Product Offered
  - 14.1.10.3. Financials (As Per Availability)
  - 14.1.10.4. Recent Developments
  - 14.1.10.5. Key Management Personnel

## **15. STRATEGIC RECOMMENDATIONS**

- 15.1. Key Focus Areas
  - 15.1.1. Target Regions
  - 15.1.2. Target Class of Orbit

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