

# Space Propulsion Market by Propulsion Type (Solid, Liquid, Electric, Solar, Hybrid), Component (Bipropellant Thruster, Hall-Effect Thruster, Rocket Motor), Platform (Satellite, Launch Vehicle), End User, Services and Region - Global forecast to 2030

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#### **Report description:**

The Space Propulsion market is estimated in terms of market size to be USD 10.21 billion in 2024 to USD 20.02 billion by 2030, at a CAGR of 11.9%. The drivers for Space Propulsion include advancements in propulsion technology, rising deployment of launch vehicles, and expansion of government and defense initiatives. Commercial space sector expansion is driven by increasing need for high-speed internet services, broadcasting, lunar exploration which have an important effect on Space Propulsion demand. Growing environmental regulations and a high emphasis on the sustainable space operations are shaping the industry's demand towards better propulsion systems.

"The Satellite platform will account for the 2nd largest market share in the Space Propulsion market during the forecast period." The Satellite platform in Space Propulsion market is expected to account for 2nd highest market share during the forecast period. Satellite platform propulsion is experiencing phenomenal growth in business due to the increasing demand for satellite services, the proliferation of satellite mega-constellations, and better propulsion technology which improves satellite performance and longevity. Having taken upon themselves the deployment of thousands of satellites into LEO and beyond, companies such as SpaceX, OneWeb, Amazon's Project Kuiper, and so on, rely heavily on these satellites to provide services for communications, Earth observation, navigation, and defense. The demand for small satellite and CubeSat launch missions keeps increasing, thereby promoting the development of miniaturized propulsion systems that allow for precision maneuvering in the least amount of fuel-consumption. The increased commercialization of space, cost-effective launch methodologies, and reusable rocket technologies boost the satellite deployment and the increasing demand for novel propulsion solutions.

"The Commercial segment will account for the largest market share in the Space Propulsion market during the forecast period." The Commercial segment in Space Propulsion market is expected to grow at highest CAGR during the forecast period. Commercial users are rapidly opening up in the market for space propulsion. The infringing market dimensions are burgeoning with the need

for satellite-client applications, more private-sector investment, and technology development for cost-effective propulsion. As companies like SpaceX, Amazon, and OneWeb, as developing thousands of satellites to be deployed into low Earth orbit (LEO) within the next couple of years for broadband coverage, navigation, Earth observation, and the Internet of Things, the satellites also need efficient propulsion systems for station-keeping, deorbiting, and orbital maneuvering, while mostly electric propulsion and chemical propulsion.

The reason attributed to this increasing affordability in entering into space is due to the reduced price for accessing an outer space facility. Reusable launch vehicles such as Falcon 9 offered by SpaceX and Rocket Lab's Electron also opened doors to more commercial users to farm on the space market. Also, private space companies are investing significantly in next-generation propulsion solutions, such as Hall-effect thrusters, ion propulsion, and hybrid propulsion, to improve mission flexibility and reduce operational expenses. Among other things speeding up demand for propulsion systems are commercial space tourism, lunar exploration, and deep-space mining ventures on a feasibility study level, partnered with NASA partnerships with private firms along with regulatory reforms-greater government initiatives to support commercial space developments. With competition gearing up, these commercial players, working on huge advancements in propulsion, have made space more commercially attractive and accessible.

"The Asia Pacific market is estimated to lead the market."

The Asia Pacific Space Propulsion market is expected to account for 2nd highest marjet share during the forecast period of 2024-2030. The space propulsion business in Asia-Pacific is thriving very fast owing to numerous government investments, commercial space ventures, and evolving country-specific propulsion technologies. China, India, Japan, and South Korea are heavily investing in their space programs involving satellite deployment, deep-space exploration, and defense applications. The space propulsion business is flourishing rapidly in the Asia-Pacific region because of the rising investments made by governments, the expansion of commercial space endeavors, and the evolution of indigenous propulsion technologies. Countries like China, India, Japan, and South Korea are seriously investing in their space programs focusing on satellite deployment, deep-space exploration, and defense applications. CNSA, China's space agency, is developing advanced propulsion systems for lunar and Mars missions, while commercial entities like CASC and iSpace are making strides in reusable rocket technologies to expand its propulsion capabilities into its ambitious space programs such as the Gaganyaan crewed mission and planetary exploratory initiatives.

## Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

- By Company Type: Tier 1-35%; Tier 2-45%; and Tier 3-20%

¬By Designation: C Level-35%; Directors-25%; and Others-40%

- By Region: North America-20%; Europe-25%; Asia Pacific-35%; Middle East-10%; RoW-10%

Northrop Grumman (US), Safran SA (France), SpaceX (US), L3Harris Technologies, Inc. (US), and IHI Corporation (Japan) are some of the leading players operating in the Space Propulsion market.

### Research Coverage

The study covers the Space Propulsion market across various segments and subsegments. It aims to estimate the size and growth potential of this market across different segments based on propulsion, capacity, operation, and region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their solutions and business offerings, recent developments undertaken by them, and key market strategies adopted by them. Key benefits of buying this report:

This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall Space Propulsion market and its subsegments. The report covers the entire ecosystem of the Space Propulsion market. It will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers and factors, such as increasing launch of satellites for communication and earth observation services, increase in public-private partnerships for development of Space Propulsion could contribute to an increase in the Space Propulsion market.

- Product Development: In-depth analysis of product innovation/development by companies across various region.

- Market Development: Comprehensive information about lucrative markets - the report analyses the Space Propulsion market across varied regions.

- Market Diversification: Exhaustive information about new solutions, untapped geographies, recent developments, and investments in Space Propulsion market.

- Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Northrop Grumman (US), Safran SA (France), SpaceX (US), L3Harris Technologies, Inc. (US), and IHI Corporation (Japan) among others in the Space Propulsion market.

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