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Satellite Propulsion System Market Size, Share & Trends Analysis Report By Platform (Large Satellites, Nano Satellites, CubeSats), By Propulsion (Chemical, Non-chemical), By Component (Thrusters, Rocket Motors), By End-use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Satellite Propulsion System Market Trends

The global satellite propulsion system market size was estimated at USD 11.05 billion in 2024 and is projected tgrow at a CAGR of 13.6% from 2025 t2030. The increasing number of space missions for commercial, government, and scientific purposes is primarily driving the demand for satellite propulsion systems, fueling the market growth. Moreover, growing interest in space exploration and the development of satellite constellations is further contributing tmarket expansion. In addition, rising demand for in-orbit servicing and debris mitigation missions, which necessitate advanced satellite propulsion systems, is positively influencing the market scenario.

Advancements in propulsion technologies, such as electric propulsion, are enabling more efficient and cost-effective satellite operations. For instance, in April 2024, NASA launched an electric propulsion system designed for small spacecraft tsupport planetary missions and extend the operational life of existing satellites. This solution forms part of the agency's initiative of commercializing technology, allowing it tprocure this critical technology from industry partners for future missions. Such developments are expected tcreate significant growth opportunities for the satellite propulsion system industry.

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Technological advancements, including breakthroughs in materials science, electronics, and propulsion physics, are further accelerating the industry growth, facilitating the development of more efficient, reliable, and versatile propulsion systems. Moreover, the advent of 3D printing and additive manufacturing is transforming the production of propulsion components, resulting in lighter, more complex, and cost-effective designs. These developments are expanding the possibilities for satellite missions, stimulating the demand for advanced satellite propulsion systems.

The growth of the satellite propulsion system industry is further driven by the increasing public-private partnerships for space exploration initiatives. For instance, in June 2023, NASA announced tpartner with seven U.S. companies tcater tfuture government and commercial needs, favoring human spaceflight and commercialization of low Earth orbit tsupport the U.S. economy. This development comes as a part of the second Collaborations for Commercial Space Capabilities-2 (CCSC-2) initiative, aimed at advancing commercial space exploration activities through NASA's technical expertise, assessments, data, and technologies.

Global Satellite Propulsion System Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest technology trends in each of the sub-segments from 2018 t2030. For this study, Grand View Research has segmented the global satellite propulsion system market report based on platform, propulsion, component, end-use, and region:

Platform Outlook (Revenue, USD Million, 2018 - 2030)

Large Satellites

Medium-Sized Satellites

NanSatellites

CubeSats

Propulsion Outlook (Revenue, USD Million, 2018 - 2030)

Chemical

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Non-Chemical

Component Outlook (Revenue, USD Million, 2018 - 2030)

Thrusters

Propellant Feed Systems

Nozzles

Rocket Motors

Others

End User Outlook (Revenue, USD Million, 2018 - 2030)

Government

Commercial

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

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Rest of Europe

Asia Pacific

Japan

China

India

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Rest of Latin America

Middle East and Africa (MEA)

UAE

Saudi Arabia

South Africa

rest of MEA

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CHAPTER 9. COMPETITIVE LANDSCAPE

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