

# 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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# Abstracts

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 technology. On the other hand, India through ISRO is equipping itself with cryogenic, semi-cryogenic, and electric propulsion 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

Space Propulsion Market by Propulsion Type (Solid, Liquid, Electric, Solar, Hybrid), Component (Bipropellant T...



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.



# **Contents**

#### **1 INTRODUCTION**

- **1.1 STUDY OBJECTIVES**
- **1.2 MARKET DEFINITION**
- 1.3 STUDY SCOPE
- 1.3.1 MARKETS COVERED AND REGIONAL SCOPE
- **1.3.2 INCLUSIONS AND EXCLUSIONS**
- 1.3.3 YEARS CONSIDERED
- **1.4 CURRENCY CONSIDERED**
- 1.5 STAKEHOLDERS
- 1.6 SUMMARY OF CHANGES

# 2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

- 2.1.1 SECONDARY DATA
- 2.1.1.1 Key data from secondary sources
- 2.1.2 PRIMARY DATA
  - 2.1.2.1 Primary sources
  - 2.1.2.2 Key data from primary sources
- 2.1.2.3 Breakdown of primary interviews
- 2.2 FACTOR ANALYSIS
- 2.2.1 INTRODUCTION
- 2.2.2 DEMAND-SIDE INDICATORS
- 2.2.3 SUPPLY-SIDE INDICATORS
- 2.3 MARKET SIZE ESTIMATION
- 2.3.1 BOTTOM-UP APPROACH
- 2.3.2 TOP-DOWN APPROACH
- 2.4 DATA TRIANGULATION
- 2.5 RESEARCH ASSUMPTIONS
- 2.6 RESEARCH LIMITATIONS
- 2.7 RISK ASSESSMENT

# **3 EXECUTIVE SUMMARY**

#### **4 PREMIUM INSIGHTS**



4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN SPACE PROPULSION MARKET

4.2 SPACE PROPULSION MARKET, BY PLATFORM

4.3 SPACE PROPULSION MARKET, BY COMPONENT

4.4 SPACE PROPULSION MARKET, BY END USER

4.5 SPACE PROPULSION MARKET, BY TYPE

4.6 SPACE PROPULSION MARKET, BY COUNTRY

# **5 MARKET OVERVIEW**

- 5.1 INTRODUCTION
- 5.2 MARKET DYNAMICS
- 5.2.1 DRIVERS
  - 5.2.1.1 Growing deployment of satellites
  - 5.2.1.2 Advancements in propulsion technologies
  - 5.2.1.3 Expansion of deep-space missions
  - 5.2.1.4 Need for advanced propellants for long-duration missions
- 5.2.2 RESTRAINTS
  - 5.2.2.1 High development and manufacturing costs
- 5.2.2.2 Stringent regulatory and safety standards
- 5.2.3 OPPORTUNITIES
  - 5.2.3.1 Increased government investments in space programs
  - 5.2.3.2 Emergence of nuclear thermal and nuclear electric propulsion
  - 5.2.3.3 Proliferation of LEO constellations
  - 5.2.3.4 Surge in demand for reusable launch vehicles
- 5.2.4 CHALLENGES
  - 5.2.4.1 Supply chain disruptions
  - 5.2.4.2 Rise of space debris
- 5.3 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 5.4 PRICING ANALYSIS
  - 5.4.1 AVERAGE SELLING PRICE TREND OF SATELLITES, BY REGION
  - 5.4.2 INDICATIVE PRICING ANALYSIS, BY SATELLITE TYPE
- 5.4.3 INDICATIVE PRICING ANALYSIS, BY LAUNCH VEHICLE
- 5.5 VALUE CHAIN ANALYSIS
- 5.6 ECOSYSTEM ANALYSIS
  - 5.6.1 PROMINENT COMPANIES
- 5.6.2 PRIVATE AND SMALL ENTERPRISES
- 5.6.3 END USERS
- 5.7 TECHNOLOGY ANALYSIS



#### 5.7.1 KEY TECHNOLOGIES

- 5.7.1.1 Electric propulsion systems
- 5.7.1.2 Solar sails
- 5.7.1.3 Ion propulsion
- 5.7.2 COMPLEMENTARY TECHNOLOGIES
  - 5.7.2.1 Heat management systems
  - 5.7.2.2 Advanced propellant management
- 5.7.3 ADJACENT TECHNOLOGIES
  - 5.7.3.1 Magnetoplasmadynamic thrusters
  - 5.7.3.2 Autonomous propulsion
- 5.8 REGULATORY LANDSCAPE
- 5.9 TRADE ANALYSIS
- 5.10 KEY STAKEHOLDERS AND BUYING CRITERIA
- 5.10.1 KEY STAKEHOLDERS IN BUYING PROCESS
- 5.10.2 BUYING CRITERIA
- 5.11 USE CASE ANALYSIS
- 5.11.1 NANOAVIONICS LAUNCHES WORLD'S FIRST LIQUID CHEMICAL PROPULSION-PROPELLED CUBESAT INTO ORBIT
- 5.11.2 NASA PROCURES ADDITIONAL RS-25 ENGINES TO SUPPORT FUTURE ARTEMIS MISSIONS
- 5.11.3 PHASEFOUR DEVELOPS AIR-BREATHING ELECTRIC PROPULSION SYSTEM FOR VLEO OPERATIONS
- 5.12 KEY CONFERENCES AND EVENTS, 2025
- 5.13 INVESTMENT AND FUNDING SCENARIO
- 5.14 MACROECONOMIC OUTLOOK
  - 5.14.1 INTRODUCTION
  - 5.14.2 NORTH AMERICA
  - 5.14.3 EUROPE
  - 5.14.4 ASIA PACIFIC
- 5.14.5 MIDDLE EAST
- 5.14.6 LATIN AMERICA
- 5.14.7 AFRICA
- 5.15 BUSINESS MODELS
- 5.16 TECHNOLOGY ROADMAP
- 5.17 PROPULSION MAPPING OF SATELLITE CONSTELLATIONS
- 5.18 BILL OF MATERIALS
- 5.19 TOTAL COST OF OWNERSHIP
- 5.20 IMPACT OF GENERATIVE AI
  - 5.20.1 INTRODUCTION



5.20.2 ADOPTION OF AI IN SPACE BY TOP COUNTRIES5.20.3 IMPACT OF AI ON SPACE INDUSTRY5.20.4 IMPACT OF AI ON SPACE PROPULSION MARKET5.21 OPERATIONAL DATA5.22 VOLUME DATA

#### **6 INDUSTRY TRENDS**

6.1 INTRODUCTION
6.2 TECHNOLOGY TRENDS
6.2.1 HYBRID PROPULSION
6.2.2 NUCLEAR THERMAL PROPULSION AND NUCLEAR ELECTRIC
PROPULSION
6.2.3 MICRO AND NANO PROPULSION
6.2.4 PLASMA PROPULSION
6.2.5 ADVANCED ELECTRIC THRUSTER
6.2.6 GREEN PROPULSION
6.3 IMPACT OF MEGA TRENDS
6.3.1 SPACE 4.0
6.3.2 ARTIFICIAL INTELLIGENCE
6.3.3 ADDITIVE MANUFACTURING
6.4 SUPPLY CHAIN ANALYSIS

6.5 PATENT ANALYSIS

#### **7 SPACE PROPULSION MARKET, BY TYPE**

- 7.1 INTRODUCTION
- 7.2 CHEMICAL PROPULSION

7.2.1 HIGH THRUST REQUIREMENT OF LAUNCH VEHICLES TO DRIVE MARKET

- 7.2.2 SOLID
  - 7.2.2.1 Homogenous
- 7.2.2.2 Heterogenous/Composite
- 7.2.3 LIQUID
  - 7.2.3.1 Monopropellant
  - 7.2.3.1.1 Non-green
  - 7.2.3.1.2 Green
  - 7.2.3.2 Bipropellant
  - 7.2.3.2.1 Cryogenic
  - 7.2.3.2.2 Hypergolic



7.2.3.3 Hybrid 7.2.3.4 Cold gas 7.3 NON-CHEMICAL PROPULSION 7.3.1 LONGER OPERATIONAL DURATIONS TO DRIVE MARKET 7.3.2 ELECTRIC/ION PROPULSION 7.3.2.1 Electrothermal 7.3.2.1.1 Argon 7.3.2.1.2 Hydrogen 7.3.2.1.3 Others 7.3.2.2 Electromagnetic 7.3.2.2.1 PTFE 7.3.2.3 Electrostatic 7.3.2.3.1 Xenon 7.3.2.3.2 Krypton 7.3.2.3.3 Others 7.3.3 SOLAR PROPULSION 7.3.3.1 Solar sail propulsion 7.3.3.2 Solar electric propulsion 7.3.3.3 Solar thermal propulsion 7.3.4 TETHER PROPULSION

7.3.5 NUCLEAR PROPULSION

#### **8 SPACE PROPULSION MARKET, BY PLATFORM**

8.1 INTRODUCTION

8.2 SATELLITES

8.2.1 ONGOING EXPANSION OF COMMERCIAL SATELLITE FLEETS TO DRIVE MARKET

8.2.2 SMALL SATELLITES

- 8.2.2.1 Nanosatellites
- 8.2.2.2 Microsatellites
- 8.2.2.3 Minisatellites
- 8.2.2.4 Cube satellites
- 8.2.2.5 501 to 1,000 KGS
- 8.2.3 MEDIUM SATELLITES
- 8.2.4 LARGE SATELLITES
- 8.3 CAPSULES/CARGO

8.3.1 GROWING FREQUENCY OF SPACE MISSIONS TO DRIVE MARKET

8.3.2 CREWED SPACECRAFT



8.3.3 UNCREWED SPACECRAFT
8.4 INTERPLANETARY SPACECRAFT & PROBES
8.4.1 HIGH DEMAND FOR PRECISION MANEUVERING TO DRIVE MARKET
8.5 ROVERS/SPACECRAFT LANDERS
8.5.1 GOVERNMENT AND PRIVATE SECTOR INVESTMENTS IN DEEP-SPACE
EXPLORATION TO DRIVE MARKET
8.6 LAUNCH VEHICLES
8.6.1 FOCUS ON REUSABILITY TO DRIVE MARKET
8.6.2 SMALL LAUNCH VEHICLES
8.6.3 MEDIUM-TO-HEAVY LAUNCH VEHICLES

8.6.4 REUSABLE LAUNCH VEHICLES

# **9 SPACE PROPULSION MARKET, BY COMPONENT**

- 9.1 INTRODUCTION
- 9.2 THRUSTERS

9.2.1 REDUCED PROPELLANT CONSUMPTION BY ELECTRIC ALTERNATIVES TO DRIVE MARKET

- 9.2.2 CHEMICAL PROPULSION THRUSTERS
  - 9.2.2.1 Cold & warm gas thrusters
  - 9.2.2.2 Monopropellant thrusters
- 9.2.2.3 Bipropellant thrusters
- 9.2.3 ELECTRIC PROPULSION THRUSTERS
  - 9.2.3.1 Ion thrusters
  - 9.2.3.2 Hall-effect thrusters
  - 9.2.3.3 Pulsed plasma thrusters
  - 9.2.3.4 Magnetoplasmadynamic thrusters
- 9.3 PROPELLANT FEED SYSTEMS

9.3.1 ELEVATED DEMAND FOR LONGER AND COMPLEX SPACE MISSIONS TO DRIVE MARKET

- 9.3.2 PROPELLANT TANKS
- 9.3.2.1 Monopropellant tanks
- 9.3.2.2 Bipropellant tanks
- 9.3.2.3 Oxidizer tanks
- 9.3.3 PRESSURE & FLOW REGULATORS
- 9.3.4 VALVES
- 9.3.5 TURBOPUMPS
- 9.3.6 COMBUSTION CHAMBERS
- 9.4 ROCKET MOTORS



9.4.1 RISE OF SPACECRAFT LAUNCHES AND ORBITAL MANEUVERS TO DRIVE MARKET

9.5 NOZZLES

9.5.1 INNOVATIONS IN DESIGN AND MANUFACTURING TECHNIQUES TO DRIVE MARKET

9.6 PROPULSION THERMAL CONTROL

9.6.1 NEED FOR HEAT MANAGEMENT IN SPACECRAFT TO DRIVE MARKET 9.7 POWER PROCESSING UNITS

9.7.1 EXTENSIVE USE OF ELECTRIC PROPULSION FOR LONG-DURATION MISSIONS TO DRIVE MARKET

9.8 OTHER COMPONENTS

# **10 SPACE PROPULSION MARKET, BY END USER**

**10.1 INTRODUCTION** 

10.2 COMMERCIAL

10.2.1 INCREASING INVESTMENTS IN HIGH-PERFORMANCE PROPULSION TECHNOLOGIES FROM PRIVATE SECTOR COMPANIES TO DRIVE MARKET

10.2.2 SATELLITE OPERATORS & OWNERS

10.2.3 SPACE LAUNCH SERVICE PROVIDERS

10.3 GOVERNMENT & DEFENSE

10.3.1 RISING SPACE EXPLORATION AND SCIENTIFIC MISSIONS TO DRIVE MARKET

10.3.2 DEPARTMENT OF DEFENSE

**10.3.3 NATIONAL SPACE AGENCIES** 

10.3.4 OTHERS

# 11 SPACE PROPULSION MARKET, BY SUPPORT SERVICE

**11.1 INTRODUCTION** 

11.2 DESIGN, ENGINEERING, OPERATION, AND MAINTENANCE

11.3 HOT FIRING AND ENVIRONMENTAL TEST EXECUTION

11.4 FUELING, LAUNCH, AND GROUND SUPPORT

# 12 SPACE PROPULSION MARKET, BY REGION

12.1 INTRODUCTION12.2 NORTH AMERICA12.2.1 PESTLE ANALYSIS

Space Propulsion Market by Propulsion Type (Solid, Liquid, Electric, Solar, Hybrid), Component (Bipropellant T...



12.2.2 US

12.2.2.1 Rising investments in nuclear propulsion and autonomous navigation technologies to drive market

12.2.3 CANADA

12.2.3.1 Strategic government support to drive market

12.3 EUROPE

12.3.1 PESTLE ANALYSIS

12.3.2 RUSSIA

12.3.2.1 Focus on reducing space debris to drive market

12.3.3 UK

12.3.3.1 Surge in satellite launches to drive market

12.3.4 GERMANY

12.3.4.1 Ongoing research and development of advanced space solutions to drive market

12.3.5 FRANCE

12.3.5.1 Significant presence of prominent players to drive market

12.3.6 ITALY

12.3.6.1 Growing commercial space industry to drive market

12.4 ASIA PACIFIC

12.4.1 PESTLE ANALYSIS

12.4.2 CHINA

12.4.2.1 Commitment to reducing carbon footprint in space to drive market

12.4.3 JAPAN

12.4.3.1 Support from government agencies to drive market

12.4.4 INDIA

12.4.4.1 Development of cost-effective and high-performance propulsion technologies to drive market

12.4.5 SOUTH KOREA

12.4.5.1 Substantial investments in space programs to drive market

12.4.6 AUSTRALIA

12.4.6.1 Rising inclination toward electric propulsion to drive market 12.5 MIDDLE EAST

12.5.1 PESTLE ANALYSIS

12.5.2 GCC

12.5.2.1 Saudi Arabia

12.5.2.1.1 Ongoing advancements in propulsion solutions

to drive market

12.5.2.2 UAE

12.5.2.2.1 Increasing investments in green propulsion



technologies to drive market

12.5.3 REST OF MIDDLE EAST

12.6 REST OF THE WORLD

12.6.1 PESTLE ANALYSIS

12.6.2 LATIN AMERICA

12.6.2.1 Emphasis on strengthening national space capabilities

to drive market

12.6.3 AFRICA

12.6.3.1 Collaborations with international space agencies to drive market

# **13 COMPETITIVE LANDSCAPE**

**13.1 INTRODUCTION** 13.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2020-2024 13.3 REVENUE ANALYSIS, 2020-2023 13.4 MARKET SHARE ANALYSIS, 2023 13.5 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024 13.5.1 STARS **13.5.2 EMERGING LEADERS 13.5.3 PERVASIVE PLAYERS 13.5.4 PARTICIPANTS 13.5.5 COMPANY FOOTPRINT** 13.5.5.1 Company footprint 13.5.5.2 End user footprint 13.5.5.3 Propulsion footprint 13.5.5.4 Platform footprint 13.5.5.5 Region footprint 13.6 COMPANY EVALUATION MATRIX: START-UPS/SMES, 2024 **13.6.1 PROGRESSIVE COMPANIES 13.6.2 RESPONSIVE COMPANIES 13.6.3 DYNAMIC COMPANIES 13.6.4 STARTING BLOCKS 13.6.5 COMPETITIVE BENCHMARKING** 13.6.5.1 List of start-ups/SMEs 13.6.5.2 Competitive benchmarking of start-ups/SMEs **13.7 BRAND/PRODUCT COMPARISON 13.8 COMPANY VALUATION AND FINANCIAL METRICS 13.9 COMPETITIVE SCENARIO 13.9.1 PRODUCT LAUNCHES** 



13.9.2 DEALS 13.9.3 OTHERS

#### **14 COMPANY PROFILES**

- 14.1 KEY PLAYERS
  - 14.1.1 SAFRAN
    - 14.1.1.1 Business overview
    - 14.1.1.2 Products offered
    - 14.1.1.3 Recent developments
    - 14.1.1.3.1 Deals
    - 14.1.1.3.2 Others
    - 14.1.1.4 MnM view
    - 14.1.1.4.1 Key strengths
    - 14.1.1.4.2 Strategic choices
    - 14.1.1.4.3 Weaknesses and competitive threats
  - 14.1.2 IHI CORPORATION
    - 14.1.2.1 Business overview
    - 14.1.2.2 Products offered
    - 14.1.2.3 Recent developments
    - 14.1.2.3.1 Deals
    - 14.1.2.4 MnM view
    - 14.1.2.4.1 Key strengths
    - 14.1.2.4.2 Strategic choices
    - 14.1.2.4.3 Weaknesses and competitive threats
  - 14.1.3 SPACEX
    - 14.1.3.1 Business overview
    - 14.1.3.2 Products offered
    - 14.1.3.3 Recent developments
    - 14.1.3.3.1 Deals
    - 14.1.3.3.2 Others
    - 14.1.3.4 MnM view
    - 14.1.3.4.1 Key strengths
    - 14.1.3.4.2 Strategic choices
    - 14.1.3.4.3 Weaknesses and competitive threats
  - 14.1.4 NORTHROP GRUMMAN
    - 14.1.4.1 Business overview
    - 14.1.4.2 Products offered
    - 14.1.4.3 Recent developments





- 14.1.4.3.1 Product launches
- 14.1.4.3.2 Others
- 14.1.4.4 MnM view
- 14.1.4.4.1 Key strengths
- 14.1.4.4.2 Strategic choices
- 14.1.4.4.3 Weaknesses and competitive threats
- 14.1.5 L3HARRIS TECHNOLOGIES, INC.
  - 14.1.5.1 Business overview
  - 14.1.5.2 Products offered
  - 14.1.5.3 Recent developments
  - 14.1.5.3.1 Deals
  - 14.1.5.3.2 Others
  - 14.1.5.4 MnM view
  - 14.1.5.4.1 Key strengths
  - 14.1.5.4.2 Strategic choices
  - 14.1.5.4.3 Weaknesses and competitive threats
- 14.1.6 MOOG INC.
  - 14.1.6.1 Business overview
  - 14.1.6.2 Products offered
  - 14.1.6.3 Recent developments
  - 14.1.6.3.1 Deals
  - 14.1.6.3.2 Others
- 14.1.7 RAFAEL ADVANCED DEFENSE SYSTEMS LTD.
  - 14.1.7.1 Business overview
- 14.1.7.2 Products offered
- 14.1.8 LOCKHEED MARTIN CORPORATION
- 14.1.8.1 Business overview
- 14.1.8.2 Products offered
- 14.1.8.3 Recent developments
- 14.1.8.3.1 Deals
- 14.1.8.3.2 Others
- 14.1.9 THALES
  - 14.1.9.1 Business overview
- 14.1.9.2 Products offered
- 14.1.9.3 Recent developments
- 14.1.9.3.1 Deals
- 14.1.9.3.2 Others
- 14.1.10 OHB SE
  - 14.1.10.1 Business overview





- 14.1.10.2 Products offered
- 14.1.10.3 Recent developments
- 14.1.10.3.1 Product launches
- 14.1.10.3.2 Deals
- 14.1.10.3.3 Others
- 14.1.11 SIERRA NEVADA CORPORATION
  - 14.1.11.1 Business overview
  - 14.1.11.2 Products offered
  - 14.1.11.3 Recent developments
  - 14.1.11.3.1 Product launches
  - 14.1.11.3.2 Others
- 14.1.12 AIRBUS
- 14.1.12.1 Business overview
- 14.1.12.2 Products offered
- 14.1.12.3 Recent developments
- 14.1.12.3.1 Deals
- 14.1.12.3.2 Others
- 14.1.13 VACCO INDUSTRIES
- 14.1.13.1 Business overview
- 14.1.13.2 Products offered
- 14.1.14 BLUE ORIGIN
- 14.1.14.1 Business overview
- 14.1.14.2 Products offered
- 14.1.14.3 Recent developments
- 14.1.14.3.1 Product launches
- 14.1.14.3.2 Deals
- 14.1.14.3.3 Others
- 14.1.15 EATON
  - 14.1.15.1 Business overview
  - 14.1.15.2 Products offered
- 14.1.15.3 Recent developments
- 14.1.15.3.1 Deals
- 14.1.15.3.2 Others
- 14.2 OTHER PLAYERS
  - 14.2.1 THRUSTME
  - 14.2.2 URSA MAJOR TECHNOLOGIES INC
  - 14.2.3 PHASEFOUR
  - 14.2.4 EXOTRAIL
  - 14.2.5 DAWN AEROSPACE



14.2.6 AST ADVANCED SPACE TECHNOLOGIES GMBH
14.2.7 STANFORD MU CORPORATION
14.2.8 MANASTU SPACE TECHNOLOGIES PRIVATE LIMITED
14.2.9 KREIOS SPACE
14.2.10 FIREFLY AEROSPACE

#### **15 APPENDIX**

15.1 DISCUSSION GUIDE
15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
15.3 CUSTOMIZATION OPTIONS
15.4 RELATED REPORTS
15.5 AUTHOR DETAILS



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