

Space Launch Services Market by Payload (Satellite, Human Spacecraft, Cargo, and Space Probes), Service Type, End User(Commercial, Military and Government), Orbit, Launch Vehicle, Launch type and Region - Global Forecast to 2027

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Abstracts

The space launch services market is estimated to be USD 16.9 billion in 2022 and is projected to reach USD 29.6 billion by 2027, at a CAGR of 15.1% from 2022 to 2027. Growth of this market can be attributed to the increased small satellite launches, investments by venture companies, among others

“FLEXIBLE LAUNCH SERVICES”

Startups and scaleups are developing flexible satellite launch techniques such as air launch to orbit, launch using spacecraft, balloons, autonomous launch vehicles, and drones. Another ground-based launch service innovation is the containerization of smallsats for easier launch to LEO constellations. Startups are also investing in the R&D of large, small, and micro launch vehicles to cater to all types of payloads.

Sidereus Space, an Italian space company, offers flexible satellite launch services from anywhere worldwide thanks to its reusable launch vehicle. Satellite owners can use the startup’s multi-purpose launch vehicle for launch and orbital re-entry. It uses miniaturized propulsion technologies to provide SSTO in a matter of weeks for both LEO and sun-synchronous orbits (SSO).

“IN-ORBIT SERVICES”

Satellite operators are using space situational awareness (SSA) to detect and clear

space trash due to the exponential increase in satellite launches. Startups are investing in R&D of self destruction and other deorbiting technologies for decommissioning satellites, which are proving to be viable for the future of space launch services. Another trend in satellite technology for decluttering space is to extend the life of existing satellites.

Obruta Space Solutions (Canada) uses its proprietary service pods and systems to perform satellite maintenance while in orbit. Refueling, repairing, recharging, relocating, deorbiting, and data transfer are major services provided by the company in space. These advancements in service will lead in extended mission time and reduce the rate of crucial mission failures.

“Commercial: The fastest growing segment of the space launch services market, by End Use.”

The commercial segment has been sub-segmented into satellite service providers and private companies. In collaboration with satellite operators (Intelsat, Eutelsat, and Telesat Canada), satellite service providers gather global real-time data and distribute it at a cost-effective price across wide geographic areas to their customers. Commercial companies can gather real-time data generated through satellite imagery with a wide range of low and medium inclination orbits and long-range tracking cameras provided by space launching services. Earth-imaging satellites for agriculture, education, intelligence, navigation, mapping, and other use cases have driven the commercial sector during the forecasting period.

The main purposes of space launch services are to send satellites or other spacecraft into orbit, transport supplies and astronauts to the International Space Station (ISS), and send tourists into space. Satellites used for communications are created and sold primarily for civilian, academic, nonprofit, or commercial uses as opposed to military ones. Remote sensing satellites use a variety of spectral bands, including radio, infrared, and light, to create images of the earth. Most of the commercial space market is made up of satellite services, which offer communications, broadband internet, direct-to-home television, radio, and imaging/mapping services.

“Low Earth Orbit (LEO): The fastest-growing segment of the space launch servicesmarket, by Orbit “

LEO had more than 3,000 satellites by 2021, which has several reasons for their proximity to earth. Being close to the surface enables LEO to take snapshots with a

greater resolution, making it the orbit that satellites utilize the most for imaging. It is also the orbit in which the International Space Station (ISS) is located since astronauts can fly more easily and quickly to and from it. This is leading to higher demand for LEO satellites. They move quickly across the sky and are difficult for ground stations to detect. Thus, individual LEO satellites are less valuable for operations like telephony. Instead, to provide continual coverage, LEO communications satellites frequently operate as a huge combination or constellation of several spacecraft. Therefore, the companies need to put more satellites in LEO orbit to build the constellation.

SpaceX (US), Arianespace (France), Mitsubishi Heavy Industries (Japan), Orbital ATK (US), and Antrix Corp (India) are some of the major companies delivering their payloads into the LEO.

All human space activity, except for the Apollo missions, has taken place in low earth orbit. The average height of the International Space Station is around 350 kilometers. It is currently occupied by 6 astronauts. LEO consists of the Iridium satellite constellation, which provides full coverage and orbits around 780 kilometers through satellite phones. Iridium constellation also offers personal communication services.

“US: The largest contributing country in the space launch services market.”

The US is estimated to account for the largest share of 96.0% of the space launch services market in North America in 2022. The space launch services market in the US is projected to grow from USD 6,729 million in 2022 to USD 11,612 million by 2027, at a CAGR of 11.5% during the forecast period.

Various initiatives undertaken by the US government and key market players to encourage research & development activities in space launch services are among the most significant factors contributing to the growth of the space launch services market in the US. For instance, NASA has granted SpaceX the International Space Station Crew-7, Crew-8, and Crew-9 missions, raising SpaceX's total Commercial Crew Transportation Capability contract to USD 3.49 billion.

US rocket companies SpaceX, Astra Space, and Rocket Lab will ferry hundreds of satellites to space in the coming years as sanctions sideline the Russian space launch industry.

Demand for launches is anticipated to soar as businesses like SpaceX's Starlink and Blue Origin's Project Kuiper compete to create massive satellite constellations that will

beam broadband internet from orbit. According to data from launch service aggregator Precious Payload, more than 800 satellites under 100 kg are anticipated to be launched in 2022.

There is also the presence of companies such as The Boeing Company, ILS International, Lockheed Martin, Spaceflight, and United Launch Alliance in the country, which is focused on developing advanced space launch services.

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: CLevel–35%; Directors–25%; and Others–40%

By Region: North America–25%; Europe–15%; AsiaPacific–45%; Middle East–10%; and Rest of the World –5%

SpaceX (US), Arianespace (France), China Aerospace Science and Technology Corporation (China), United Launch Alliance (US), Northrop Grumman Corporation (US) are the key players in the space launch services market.

Research Coverage

The study covers the space launch services market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on service type, payload, orbit, launch vehicle type, launch type, end use, 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 product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Reasons to Buy this Report

This report is expected to help market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall space launch

servicesmarketandits segments. This study is also expected to provide regionwise information aboutthe end use, and wherein space launch servicesare used. This report aims at helping the stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses and plan suitable go-to-market strategies. This report is also expected to help them understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3.1 SPACE LAUNCH SERVICES MARKET SEGMENTATION

FIGURE 1 SPACE LAUNCH SERVICES MARKET SEGMENTATION

1.3.2 REGIONAL SCOPE

1.3.3 YEARS CONSIDERED

1.4 INCLUSIONS AND EXCLUSIONS

1.5 CURRENCY

1.6 USD EXCHANGE RATES

1.7 LIMITATIONS

1.8 STAKEHOLDERS

1.9 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 RESEARCH FLOW

FIGURE 3 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary source

2.1.3 KEY PRIMARY SOURCES

2.1.3.1 Breakdown of primaries

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

2.2 DEMAND- AND SUPPLY-SIDE ANALYSIS

2.2.1 DEMAND-SIDE INDICATORS

2.2.1.1 Growing demand for commercial NGSO launches

FIGURE 5 SATELLITES LAUNCHED, BY ORBIT (2020-2021)

2.2.1.2 Rising demand for EO and telecommunication applications

FIGURE 6 SATELLITE ORBITAL LAUNCHES, BY COUNTRY, IN UNITS (2017–2027)

2.2.2 SUPPLY-SIDE INDICATORS

2.2.2.1 Advancements in RLV technology

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.1.1 Market size estimation and methodology

TABLE 1 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.1.2 Regional split of space launch services market

2.3.2 TOP-DOWN APPROACH

FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 9 DATA TRIANGULATION

2.5 RESEARCH ASSUMPTIONS

2.6 GROWTH RATE ASSUMPTIONS

2.7 RISKS

3 EXECUTIVE SUMMARY

FIGURE 10 SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022 VS. 2027
(USD BILLION)

FIGURE 11 SPACE LAUNCH SERVICES MARKET, BY GOVERNMENT END USE,
2022 VS. 2027(USD BILLION)

FIGURE 12 SPACE LAUNCH SERVICES MARKET, BY REGION, 2022 VS. 2027
(USD BILLION)

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN SPACE LAUNCH SERVICES MARKET,
2022–2027

FIGURE 13 RISING DEPLOYMENT OF SMALL SATELLITES AND SIGNIFICANT
INVESTMENT BY VENTURE COMPANIES FOR SPACE EXPLORATION MISSIONS

4.2 SPACE LAUNCH SERVICES MARKET, BY END USER

FIGURE 14 GOVERNMENT SEGMENT TO LEAD SPACE LAUNCH SERVICES
MARKET DURING FORECAST PERIOD

4.3 SPACE LAUNCH SERVICES MARKET, BY LAUNCH TYPE

FIGURE 15 REUSABLE SEGMENT TO COMMAND HIGHEST GROWTH DURING
FORECAST PERIOD

4.4 SPACE LAUNCH SERVICES MARKET, BY SATELLITE

FIGURE 16 SMALL SATELLITES TO BE DOMINANT DURING FORECAST PERIOD

4.5 SPACE LAUNCH SERVICES MARKET, BY COUNTRY

FIGURE 17 UK ESTIMATED TO HAVE HIGHEST CAGR IN SPACE LAUNCH

SERVICES MARKET DURING 2022–2027

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 18 SPACE LAUNCH SERVICES MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Increased deployment of small satellites

TABLE 2 KEY INFORMATION ON LEO AND MEO CONSTELLATIONS (OPERATIONAL)

TABLE 3 KEY INFORMATION ON LEO AND MEO CONSTELLATIONS (DEVELOPMENT)

5.2.1.2 Investments by venture companies

TABLE 4 GLOBAL TOP VC INVESTORS IN SPACE TECHNOLOGY SINCE 2010

FIGURE 19 VENTURE CAPITAL INVESTMENTS IN SPACE INDUSTRY, 2010

5.2.1.3 Focus on reducing mission costs

5.2.1.4 Increased demand for space tourism

FIGURE 20 GLOBAL REVENUE OF SPACE TRAVEL AND TOURISM, (2021–2030)

5.2.2 RESTRAINTS

5.2.2.1 Lack of dedicated launch vehicles

5.2.2.2 Lack of measures for disposal of orbital debris

5.2.3 OPPORTUNITIES

5.2.3.1 Technological upgrades in space industry

5.2.3.2 Government investments in space technology

5.2.4 CHALLENGES

5.2.4.1 Scarce intellectual assets

5.2.4.2 Emissions due to space missions

5.2.4.3 Concerns over space debris

5.3 AVERAGE SELLING PRICE

TABLE 5 SPACE LAUNCH SERVICES: AVERAGE LAUNCH COST

5.4 VALUE CHAIN ANALYSIS

FIGURE 21 VALUE CHAIN ANALYSIS

5.4.1 UPSTREAM PLAYERS

5.4.2 MANUFACTURERS

5.4.3 LAUNCH SERVICE PROVIDERS

5.4.4 DOWNSTREAM PLAYERS

5.4.5 GOVERNMENT AGENCIES

5.4.6 SATELLITE OPERATORS

5.5 MARKET ECOSYSTEM MAP

FIGURE 22 SPACE LAUNCH SERVICES MARKET ECOSYSTEM

5.5.1 PROMINENT COMPANIES

5.5.2 PRIVATE AND SMALL ENTERPRISES

5.5.3 END USERS

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESSES

FIGURE 23 REVENUE SHIFT AND NEW REVENUE POCKETS FOR SATELLITE SYSTEM MANUFACTURERS

5.7 OPERATIONAL DATA

TABLE 6 GLOBAL SMALL SATELLITE LAUNCH VOLUME, BY MASS, 2018–2021

TABLE 7 ORBITAL LAUNCHES, BY COUNTRY, 2017–2022

5.8 PORTER'S FIVE FORCES ANALYSIS FOR SATELLITE LAUNCH SERVICES MARKET

FIGURE 24 SPACE LAUNCH SERVICES MARKET: PORTER'S FIVE FORCE ANALYSIS

5.8.1 SPACE LAUNCH SERVICES MARKET: PORTER'S FIVE FORCE ANALYSIS

5.8.2 THREATS OF NEW ENTRANTS

5.8.3 THREAT OF SUBSTITUTES

5.8.4 BARGAINING POWERS OF SUPPLIERS

5.8.5 BARGAINING POWERS OF BUYERS

5.8.6 INTENSITY OF COMPETITIVE RIVALRY

5.9 TARIFF AND REGULATORY LANDSCAPE

5.9.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.9.1.1 UN Office of Outer Space Affairs (UNOOSA)

5.9.1.2 UN Committee on the Peaceful Uses of Outer Space (COPUOS)

TABLE 8 UN SPACE TREATIES

5.9.1.3 North America

5.9.1.4 Europe

5.9.1.5 Asia Pacific

5.10 KEY CONFERENCES AND EVENTS IN 2022–2023

TABLE 9 SPACE LAUNCH SERVICES MARKET: DETAILED LIST OF CONFERENCES AND EVENTS

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 TECHNOLOGY TRENDS

- 6.2.1 LAUNCHER RECOVERABILITY
- 6.2.2 REUSABLE ROCKETS
- 6.2.3 ADDITIVE MANUFACTURING
- 6.2.4 FLEXIBLE LAUNCH SERVICES
- 6.2.5 SPACECRAFT PROPULSION
- 6.2.6 ADVANCED PAYLOAD SYSTEMS
- 6.2.7 IN-ORBIT SERVICES
- 6.2.8 PROPELLANT TECHNOLOGIES
- 6.2.9 UPPER STAGE AND SPACECRAFT ORBIT RAISING TECHNOLOGIES
- 6.3 USE CASE OF SLS MARKET
 - 6.3.1 BOOM IN SPACE EXPLORATION
 - 6.3.2 ADVANCEMENT IN SATELLITE COMMUNICATION
 - 6.3.3 SPACE ROBOTICS AND SERVICING
 - 6.3.4 DEVELOPMENTS IN REMOTE SENSING
 - 6.3.5 IMPROVEMENTS IN SPACE ENGINEERING
 - 6.3.6 INCREASE IN SPACE MINING
- 6.4 IMPACT OF MEGATRENDS
 - 6.4.1 REUSABLE ROCKETS REDUCE LAUNCH COST
 - 6.4.2 ENHANCED SMALL SATELLITE LAUNCHES
 - 6.4.3 SPACE TOURISM
- 6.5 INNOVATION AND PATENT REGISTRATIONS

7 SPACE LAUNCH SERVICES MARKET, BY END USER

7.1 INTRODUCTION

FIGURE 25 MILITARY AND GOVERNMENT SEGMENT TO ACQUIRE HIGHER MARKET SHARE DURING FORECAST PERIOD

TABLE 10 SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 11 SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

7.2 COMMERCIAL

- 7.2.1 OBSERVATION
- 7.2.2 COMMUNICATION
- 7.2.3 SCIENTIFIC R&D
- 7.2.4 OTHERS (CIVIL, ETC.)

7.3 MILITARY AND GOVERNMENT

- 7.3.1 DEPARTMENT OF DEFENSE AND INTELLIGENCE AGENCIES
- 7.3.2 NATIONAL SPACE AGENCIES

7.3.3 SEARCH AND RESCUE ENTITIES

7.3.4 NATIONAL MAPPING AND TOPOGRAPHIC AGENCIES

8 SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE

8.1 INTRODUCTION

FIGURE 26 MEDIUM TO HEAVY VEHICLES (>350,000 KG) SEGMENT EXPECTED TO GROW AT HIGHER CAGR DURING FORECAST PERIOD

TABLE 12 SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2018–2021 (USD MILLION)

TABLE 13 SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2022–2027 (USD MILLION)

8.2 SMALL LIFT LAUNCH VEHICLES (350,000 KG)

9 SPACE LAUNCH SERVICES MARKET, BY LAUNCH TYPE

9.1 INTRODUCTION

FIGURE 27 SINGLE USE SEGMENT TO GROW AT HIGHEST RATE DURING FORECAST PERIOD

TABLE 14 SPACE LAUNCH SERVICES MARKET, BY LAUNCH TYPE, 2018–2021 (USD MILLION)

TABLE 15 SPACE LAUNCH SERVICES MARKET, BY LAUNCH TYPE, 2022–2027 (USD MILLION)

9.2 SINGLE USE

9.3 REUSABLE

10 SPACE LAUNCH SERVICES MARKET, BY ORBIT

10.1 INTRODUCTION

FIGURE 28 LOW EARTH ORBIT SEGMENT EXPECTED TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 16 SPACE LAUNCH VEHICLES MARKET, BY ORBIT, 2018–2022 (USD MILLION)

TABLE 17 SPACE LAUNCH VEHICLES MARKET, BY ORBIT, 2022–2027 (USD MILLION)

10.2 LOW EARTH ORBIT (LEO)

10.3 MEDIUM EARTH ORBIT (MEO)

10.4 GEOSTATIONARY EARTH ORBIT (GEO)

10.5 BEYOND GEOSTATIONARY EARTH ORBIT

11 SPACE LAUNCH SERVICES MARKET, BY PAYLOAD

11.1 INTRODUCTION

FIGURE 29 SMALL SATELLITE SEGMENT EXPECTED TO GROW AT HIGHEST RATE DURING FORECAST PERIOD

TABLE 18 SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 19 SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

11.2 SATELLITES

11.2.1 SMALL SATELLITES (1–500 KG)

11.2.1.1 Nanosatellites

11.2.1.2 Microsatellites

11.2.1.3 Minisatellites

11.2.2 MEDIUM SATELLITES (500–2,500 KG)

11.2.3 LARGE SATELLITES (>2,500 KG)

11.3 CARGO

11.4 HUMAN SPACECRAFT

11.5 SPACE PROBES

12 SPACE LAUNCH SERVICES MARKET, BY SERVICE TYPE

12.1 INTRODUCTION

12.2 PRE LAUNCH

12.2.1 INTEGRATION

12.2.2 MANUFACTURERS

12.2.3 WAREHOUSING

12.2.4 LAUNCH ACQUISITION AND COORDINATION

12.2.5 MANAGEMENT SERVICES

12.2.6 INTEGRATION AND LOGISTICS

12.2.7 ASSEMBLING

12.2.8 COMPONENT AND PART SUPPLIERS

12.2.9 TRACKING, DATA, AND TELEMETRY SUPPORT

12.2.10 INSURANCE

12.3 POST LAUNCH

12.3.1 LAUNCH AND EARLY OPERATIONS PHASE (LEOP)

12.3.2 RESUPPLY MISSIONS

12.3.3 VALUE-ADDED SERVICES

12.3.4 PAYLOAD OPERATORS

12.3.5 STABILIZATION

12.3.6 OTHERS

13 REGIONAL ANALYSIS

13.1 INTRODUCTION

FIGURE 30 SPACE LAUNCH SERVICES MARKET: REGIONAL SNAPSHOT

TABLE 20 SPACE LAUNCH SERVICES MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 21 SPACE LAUNCH SERVICES MARKET, BY REGION, 2022–2027 (USD MILLION)

13.2 NORTH AMERICA

FIGURE 31 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET SNAPSHOT

TABLE 22 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 23 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 24 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 25 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY ORBIT, 2022–2027 (USD MILLION)

TABLE 26 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2018–2021 (USD MILLION)

TABLE 27 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2022–2027 (USD MILLION)

TABLE 28 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 29 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

TABLE 30 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 31 NORTH AMERICA: SPACE LAUNCH SERVICES MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

13.2.1 US

TABLE 32 US: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 33 US: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 34 US: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021
(USD MILLION)

TABLE 35 US: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027
(USD MILLION)

13.2.2 CANADA

TABLE 36 CANADA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2018–2021 (USD MILLION)

TABLE 37 CANADA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2022–2027 (USD MILLION)

TABLE 38 CANADA: SPACE LAUNCH SERVICES MARKET, BY END USER,
2018–2021 (USD MILLION)

TABLE 39 CANADA: SPACE LAUNCH SERVICES MARKET, BY END USER,
2022–2027 (USD MILLION)

13.3 EUROPE

FIGURE 32 EUROPE: SPACE LAUNCH SERVICES MARKET SNAPSHOT

TABLE 40 EUROPE: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2018–2021 (USD MILLION)

TABLE 41 EUROPE: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2022–2027 (USD MILLION)

TABLE 42 EUROPE: SPACE LAUNCH SERVICES MARKET, BY ORBIT, 2018–2021
(USD MILLION)

TABLE 43 EUROPE: SPACE LAUNCH SERVICES MARKET, BY ORBIT, 2022–2027
(USD MILLION)

TABLE 44 EUROPE: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE,
2018–2021 (USD MILLION)

TABLE 45 EUROPE: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE,
2022–2027 (USD MILLION)

TABLE 46 EUROPE: SPACE LAUNCH SERVICES MARKET, BY END USER,
2018–2021 (USD MILLION)

TABLE 47 EUROPE: SPACE LAUNCH SERVICES MARKET, BY END USER,
2022–2027 (USD MILLION)

TABLE 48 EUROPE: SPACE LAUNCH SERVICES MARKET, BY COUNTRY,
2018–2021 (USD MILLION)

TABLE 49 EUROPE: SPACE LAUNCH SERVICES MARKET, BY COUNTRY,
2022–2027 (USD MILLION)

13.3.1 RUSSIA

TABLE 50 RUSSIA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2018–2021 (USD MILLION)

TABLE 51 RUSSIA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,

2022–2027 (USD MILLION)

TABLE 52 RUSSIA: SPACE LAUNCH SERVICES MARKET, BY END USER,
2018–2021 (USD MILLION)

TABLE 53 RUSSIA: SPACE LAUNCH SERVICES MARKET, BY END USER,
2022–2027 (USD MILLION)

13.3.2 FRANCE

TABLE 54 FRANCE: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2018–2021 (USD MILLION)

TABLE 55 FRANCE: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2022–2027 (USD MILLION)

TABLE 56 FRANCE: SPACE LAUNCH SERVICES MARKET, BY END USER,
2018–2021 (USD MILLION)

TABLE 57 FRANCE: SPACE LAUNCH SERVICES MARKET, BY END USER,
2022–2027 (USD MILLION)

13.3.3 GERMANY

TABLE 58 GERMANY: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2018–2021 (USD MILLION)

TABLE 59 GERMANY: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD,
2022–2027 (USD MILLION)

TABLE 60 GERMANY: SPACE LAUNCH SERVICES MARKET, BY END USER,
2018–2021 (USD MILLION)

TABLE 61 GERMANY: SPACE LAUNCH SERVICES MARKET, BY END USER,
2022–2027 (USD MILLION)

13.3.4 UK

TABLE 62 UK: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021
(USD MILLION)

TABLE 63 UK: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027
(USD MILLION)

TABLE 64 UK: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021
(USD MILLION)

TABLE 65 UK: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027
(USD MILLION)

13.3.5 ITALY

TABLE 66 ITALY: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021
(USD MILLION)

TABLE 67 ITALY: SPACE LAUNCH SERVICES MARKET SIZE, BY PAYLOAD,
2022–2027 (USD MILLION)

TABLE 68 ITALY: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021
(USD MILLION)

TABLE 69 ITALY: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

13.3.6 REST OF EUROPE

13.4 ASIA PACIFIC

FIGURE 33 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET SNAPSHOT

TABLE 70 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 71 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 72 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 73 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY ORBIT, 2022–2027 (USD MILLION)

TABLE 74 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2018–2021 (USD MILLION)

TABLE 75 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2022–2027 (USD MILLION)

TABLE 76 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 77 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

TABLE 78 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 79 ASIA PACIFIC: SPACE LAUNCH SERVICES MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

13.4.1 CHINA

TABLE 80 CHINA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 81 CHINA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 82 CHINA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 83 CHINA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

13.4.2 JAPAN

TABLE 84 JAPAN: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 85 JAPAN: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 86 JAPAN: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 87 JAPAN: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

13.4.3 INDIA

TABLE 88 INDIA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 89 INDIA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 90 INDIA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 91 INDIA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

13.4.4 NEW ZEALAND

TABLE 92 NEW ZEALAND: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 93 NEW ZEALAND: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 94 NEW ZEALAND: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 95 NEW ZEALAND: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

13.4.5 SOUTH KOREA

TABLE 96 SOUTH KOREA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 97 SOUTH KOREA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 98 SOUTH KOREA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 99 SOUTH KOREA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

13.5 REST OF THE WORLD

TABLE 100 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 101 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 102 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 103 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY

ORBIT, 2022–2027 (USD MILLION)

TABLE 104 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2018–2021 (USD MILLION)

TABLE 105 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY LAUNCH VEHICLE, 2022–2027 (USD MILLION)

TABLE 106 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 107 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

TABLE 108 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 109 REST OF THE WORLD: SPACE LAUNCH SERVICES MARKET, BY REGION, 2022–2027 (USD MILLION)

13.5.1 MIDDLE EAST & AFRICA

TABLE 110 MIDDLE EAST: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 111 MIDDLE EAST: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 112 MIDDLE EAST: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 113 MIDDLE EAST: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

13.5.2 LATIN AMERICA

TABLE 114 LATIN AMERICA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2018–2021 (USD MILLION)

TABLE 115 LATIN AMERICA: SPACE LAUNCH SERVICES MARKET, BY PAYLOAD, 2022–2027 (USD MILLION)

TABLE 116 LATIN AMERICA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 117 LATIN AMERICA: SPACE LAUNCH SERVICES MARKET, BY END USER, 2022–2027 (USD MILLION)

14 COMPETITIVE LANDSCAPE

14.1 INTRODUCTION

TABLE 118 KEY DEVELOPMENTS BY LEADING PLAYERS IN SPACE LAUNCH SERVICES MARKET BETWEEN JANUARY 2018 AND JUNE 2022

14.2 MARKET SHARE ANALYSIS OF LEADING PLAYERS, 2021

TABLE 119 DEGREE OF COMPETITION

FIGURE 34 MARKET SHARE OF KEY PLAYERS IN SPACE LAUNCH SERVICES MARKET, 2021

FIGURE 35 COLLECTIVE REVENUE SHARE OF TOP FIVE PLAYERS

14.3 RANK ANALYSIS IN 2021

FIGURE 36 REVENUE SHARE OF TOP FIVE PLAYERS IN SPACE LAUNCH SERVICES MARKET IN 2021

TABLE 120 COMPANY REGION FOOTPRINT

TABLE 121 COMPANY MOBILITY FOOTPRINT

14.4 COMPETITIVE EVALUATION QUADRANT

14.4.1 STARS

14.4.2 PERVASIVE PLAYERS

14.4.3 EMERGING LEADERS

14.4.4 PARTICIPANTS

FIGURE 37 SPACE LAUNCH SERVICES MARKET COMPETITIVE LEADERSHIP MAPPING, 2021

14.5 COMPETITIVE BENCHMARKING

14.5.1 PROGRESSIVE COMPANIES

14.5.2 RESPONSIVE COMPANIES

14.5.3 STARTING BLOCKS

14.5.4 DYNAMIC COMPANIES

FIGURE 38 SPACE LAUNCH SERVICES MARKET COMPETITIVE LEADERSHIP MAPPING (SME)

14.6 DETAILED LIST AND COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

TABLE 122 SPACE LAUNCH SERVICES MARKET: DETAILED LIST OF KEY STARTUPS/SMES

14.7 COMPETITIVE SCENARIO

14.7.1 NEW LAUNCHES

TABLE 123 NEW PRODUCT DEVELOPMENTS, JANUARY 2018–JUNE 2022

14.7.2 CONTRACTS, DEALS, AND AGREEMENTS

TABLE 124 CONTRACTS, DEALS, AND AGREEMENTS, JANUARY 2018– JUNE 2022

15 COMPANY PROFILES

15.1 INTRODUCTION

(Business overview, Products offered, Recent developments & MnM View)*

15.2 KEY PLAYERS

15.2.1 CHINA AEROSPACE SCIENCE AND TECHNOLOGY CORPORATION

TABLE 125 CHINA AEROSPACE SCIENCE AND TECHNOLOGY CORPORATION:
BUSINESS OVERVIEW

TABLE 126 CHINA AEROSPACE SCIENCE AND TECHNOLOGY CORPORATION:
NEW PRODUCT LAUNCHES

15.2.2 SPACEX

TABLE 127 SPACEX: BUSINESS OVERVIEW

TABLE 128 SPACEX: NEW PRODUCT LAUNCHES

TABLE 129 SPACEX: DEALS

15.2.3 UNITED LAUNCH ALLIANCE

TABLE 130 UNITED LAUNCH ALLIANCE: BUSINESS OVERVIEW

TABLE 131 UNITED LAUNCH ALLIANCE: NEW PRODUCT LAUNCHES

TABLE 132 UNITED LAUNCH ALLIANCE: DEALS

15.2.4 NORTHROP GRUMMAN CORPORATION

TABLE 133 NORTHROP GRUMMAN CORPORATION: BUSINESS OVERVIEW

FIGURE 39 NORTHROP GRUMMAN CORPORATION: COMPANY SNAPSHOT

TABLE 134 NORTHROP GRUMMAN CORPORATION: DEALS

15.2.5 THE BOEING COMPANY

TABLE 135 THE BOEING COMPANY: BUSINESS OVERVIEW

FIGURE 40 THE BOEING COMPANY: COMPANY SNAPSHOT

TABLE 136 THE BOEING COMPANY: NEW PRODUCT LAUNCHES

TABLE 137 THE BOEING COMPANY: DEALS

15.2.6 MITSUBISHI HEAVY INDUSTRIES

TABLE 138 MITSUBISHI HEAVY INDUSTRIES: BUSINESS OVERVIEW

FIGURE 41 MITSUBISHI HEAVY INDUSTRIES: COMPANY SNAPSHOT

TABLE 139 MITSUBISHI HEAVY INDUSTRIES: NEW PRODUCT LAUNCHES

TABLE 140 MITSUBISHI HEAVY INDUSTRIES: DEALS

15.2.7 ANTRIX

TABLE 141 ANTRIX: BUSINESS OVERVIEW

FIGURE 42 ANTRIX: COMPANY SNAPSHOT

TABLE 142 ANTRIX: NEW PRODUCT LAUNCHES

TABLE 143 ANTRIX: DEALS

15.2.8 ARIANESPACE

TABLE 144 ARIANESPACE: BUSINESS OVERVIEW

TABLE 145 ARIANESPACE: NEW PRODUCT LAUNCHES

TABLE 146 ARIANESPACE: DEALS

15.2.9 BLUE ORIGIN

TABLE 147 BLUE ORIGIN: BUSINESS OVERVIEW

TABLE 148 BLUE ORIGIN: NEW PRODUCT LAUNCHES

TABLE 149 BLUE ORIGIN: DEALS

15.2.10 CHINA GREAT WALL INDUSTRY

TABLE 150 CHINA GREAT WALL INDUSTRY: BUSINESS OVERVIEW

TABLE 151 CHINA GREAT WALL INDUSTRY: NEW PRODUCT LAUNCHES

15.2.11 ILS INTERNATIONAL LAUNCH SERVICES

TABLE 152 ILS INTERNATIONAL LAUNCH SERVICES: BUSINESS OVERVIEW

TABLE 153 ILS INTERNATIONAL LAUNCH SERVICES: NEW PRODUCT LAUNCHES

15.2.12 LOCKHEED MARTIN

TABLE 154 LOCKHEED MARTIN: BUSINESS OVERVIEW

FIGURE 43 LOCKHEED MARTIN: COMPANY SNAPSHOT

TABLE 155 LOCKHEED MARTIN: NEW PRODUCT LAUNCHES

TABLE 156 LOCKHEED MARTIN: DEALS

15.2.13 ASTRA SPACE

TABLE 157 ASTRA SPACE: BUSINESS OVERVIEW

TABLE 158 ASTRA SPACE: DEALS

15.2.14 SWEDISH SPACE CORPORATION (SSC)

TABLE 159 SWEDISH SPACE CORPORATION: BUSINESS OVERVIEW

FIGURE 44 SWEDISH SPACE CORPORATION: COMPANY SNAPSHOT

TABLE 160 SWEDISH SPACE CORPORATION: NEW PRODUCT LAUNCHES

TABLE 161 SWEDISH SPACE CORPORATION: DEALS

15.2.15 ROCKET LAB

TABLE 162 ROCKET LAB: BUSINESS OVERVIEW

FIGURE 45 ROCKET LAB: COMPANY SNAPSHOT

TABLE 163 ROCKET LAB: NEW PRODUCT LAUNCHES

TABLE 164 ROCKET LAB: DEALS

15.2.16 FIREFLY AEROSPACE

TABLE 165 FIREFLY AEROSPACE: BUSINESS OVERVIEW

TABLE 166 FIREFLY AEROSPACE: NEW PRODUCT LAUNCHES

TABLE 167 FIREFLY AEROSPACE: DEALS

15.2.17 RELATIVITY SPACE

TABLE 168 RELATIVITY AEROSPACE: BUSINESS OVERVIEW

TABLE 169 RELATIVITY AEROSPACE: NEW PRODUCT LAUNCHES

TABLE 170 RELATIVITY AEROSPACE: DEALS

15.2.18 DAWN AEROSPACE

TABLE 171 DAWN AEROSPACE: BUSINESS OVERVIEW

TABLE 172 DAWN AEROSPACE: NEW PRODUCT LAUNCHES

TABLE 173 DAWN AEROSPACE: DEALS

15.2.19 GRAVITILAB AEROSPACE SERVICES

TABLE 174 GRAVITILAB AEROSPACE SERVICES: BUSINESS OVERVIEW

TABLE 175 GRAVITILAB AEROSPACE SERVICES

15.2.20 CNIM AIR SPACE

TABLE 176 CNIM AIR SPACE: BUSINESS OVERVIEW

TABLE 177 CNIM AIR SPACE: NEW PRODUCT LAUNCHES

TABLE 178 CNIM AIR SPACE: DEALS

15.2.21 VIRGIN ORBIT

TABLE 179 VIRGIN ORBIT: BUSINESS OVERVIEW

TABLE 180 VIRGIN ORBIT: NEW PRODUCT LAUNCHES

TABLE 181 VIRGIN ORBIT: DEALS

15.2.22 SIERRA SPACE

TABLE 182 SIERRA SPACE: BUSINESS OVERVIEW

TABLE 183 SIERRA SPACE: NEW PRODUCT LAUNCHES

TABLE 184 SIERRA SPACE: DEALS

15.2.23 EUROCKOT

TABLE 185 EUROCKOT: BUSINESS OVERVIEW

TABLE 186 EUROCKOT: NEW PRODUCT LAUNCHES

15.2.24 ISC KOSMOTRAS

TABLE 187 ISC KOSMOTRAS: BUSINESS OVERVIEW

TABLE 188 ISC KOSMOTRAS: DEALS

*Details on Business overview, Products offered, Recent developments & MnM View might not be captured in case of unlisted companies.

16 APPENDIX

16.1 DISCUSSION GUIDE

16.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

16.3 CUSTOMIZATION OPTIONS

16.4 RELATED REPORTS

16.5 AUTHOR DETAILS

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