

# **Spacecraft Market By Type (Manned Spacecraft, Unmanned Spacecraft) , By End Use Industry (Commercial, Government, Military) By Component (Payload, Structures and Mechanisms, Thermal Control, Power Systems, Propulsion, Avionics, Software) By Application (Communication, Earth Observation and Remote Sensing, Navigation and Mapping, Space Exploration, Scientific Research, Defense and Security) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

### **Spacecraft Market**

The spacecraft market was valued at \$6.9 billion in 2023 and is projected to reach \$11.7 billion by 2033, growing at a CAGR of 5.7% from 2024 to 2033.

A spacecraft is a vehicle designed to carry people or cargo into outer space, beyond the atmosphere of the Earth. The differentiating attributes of a spacecraft include its capability to sustain in harsh environments, vacuum, and high radiation levels. Different varieties of spacecrafts with distinguished shapes & missions include rockets, space probes, satellites, and space stations. The major components that make up a spacecraft include propulsion, guidance & navigation, power, communication, thermal control, and life-support systems.

Expansion of space exploration projects and initiatives by governments have fueled the

demand for advanced spacecrafts, augmenting the development of the market. In addition, rise in popularity of commercial space tourism acts as a key driver of the spacecraft market. A significant trend gaining prominence in the spacecraft market is the adoption of clean fuels to cater to surge in demand for sustainability in space operations. By embracing technological innovations and alternative energy sources such as biofuels & electric flight technology, the space industry is striving to curb its emissions.

However, the manufacturing and operation of spacecrafts are strictly subject to several regulations ranging from satellite licensing to space debris management. These regulatory standards often cause delays in timelines and hamper the growth of the market. Moreover, the high upfront costs associated with the development & operation of spacecrafts act as a constraint for emerging economies and restrain the growth of the global spacecraft market. On the contrary, as the landscape of space exploration and launching of objects into outer space continues to increase, the spacecraft market is poised to witness several lucrative opportunities in coming years. For instance, the statistics of the United Nations Office for Outer Space Affairs state that the number of objects launched into outer space in 2023 was 2664, breaking the set record for 2022.

## Segment Review

The spacecraft market is segmented into type, end use industry, component, application, and region. On the basis of type, the market is bifurcated into manned spacecraft and unmanned spacecraft. Depending on end use industry, it is divided into commercial, government, and military. As per component, it is classified into payload, structures & mechanisms, thermal control, power systems, propulsion, avionics, and software. According to application, it is categorized into communication, earth observation & remote sensing, navigation & mapping, space exploration, scientific research, and defense & security. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of type, the unmanned spacecraft segment is expected to dominate the market during the forecast duration.

Depending on end use industry, the government segment is projected to account for a high share of the market by 2033.

As per component, the payload segment is anticipated to be the highest shareholder throughout the forecast period.

According to application, the communication segment is predicted to acquire a high share of the market during the forecast period.

Region wise, North America is expected to be the highest revenue generator by 2033.

### Competition Analysis

The major players in the global spacecraft market include Airbus SE, Berlin Space Technologies GmbH, Blue Origin LLC, Lockheed Martin Corporation, Mitsubishi Electric Corporation, Northrop Grumman Corporation, Roscosmos, Sierra Nevada Corporation, Space Exploration Technologies Corporation, and The Boeing Company. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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SWOT Analysis

Key Market Segments

By Type

Manned Spacecraft

Unmanned Spacecraft

By End Use Industry

Commercial

Government

Military

By Component

Payload

Structures and Mechanisms

Thermal Control

Power Systems

Propulsion

Avionics

Software

## By Application

Communication

Earth Observation and Remote Sensing

Navigation and Mapping

Space Exploration

Scientific Research

Defense and Security

## By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Airbus SE

Berlin Space Technologies GmbH

Blue Origin LLC

Lockheed Martin Corporation

Mitsubishi Electric Corporation

Northrop Grumman Corporation

Roscosmos

Sierra Nevada Corporation

Space Exploration Technologies Corporation

The Boeing Company

## Contents

### CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
  - 1.4.1. Primary Research
  - 1.4.2. Secondary Research
  - 1.4.3. Analyst Tools and Models

### CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

### CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
  - 3.2.1. Top Investment Pockets
  - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
  - 3.3.1. Bargaining Power of Suppliers
  - 3.3.2. Threat of New Entrants
  - 3.3.3. Threat of Substitutes
  - 3.3.4. Competitive Rivalry
  - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
  - 3.4.1. Drivers
  - 3.4.2. Restraints
  - 3.4.3. Opportunities

### CHAPTER 4: SPACECRAFT MARKET, BY TYPE

- 4.1. Market Overview
  - 4.1.1 Market Size and Forecast, By Type
- 4.2. Manned Spacecraft
  - 4.2.1. Key Market Trends, Growth Factors and Opportunities



- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Unmanned Spacecraft
  - 4.3.1. Key Market Trends, Growth Factors and Opportunities
  - 4.3.2. Market Size and Forecast, By Region
  - 4.3.3. Market Share Analysis, By Country

## **CHAPTER 5: SPACECRAFT MARKET, BY END USE INDUSTRY**

- 5.1. Market Overview
  - 5.1.1 Market Size and Forecast, By End Use Industry
- 5.2. Commercial
  - 5.2.1. Key Market Trends, Growth Factors and Opportunities
  - 5.2.2. Market Size and Forecast, By Region
  - 5.2.3. Market Share Analysis, By Country
- 5.3. Government
  - 5.3.1. Key Market Trends, Growth Factors and Opportunities
  - 5.3.2. Market Size and Forecast, By Region
  - 5.3.3. Market Share Analysis, By Country
- 5.4. Military
  - 5.4.1. Key Market Trends, Growth Factors and Opportunities
  - 5.4.2. Market Size and Forecast, By Region
  - 5.4.3. Market Share Analysis, By Country

## **CHAPTER 6: SPACECRAFT MARKET, BY COMPONENT**

- 6.1. Market Overview
  - 6.1.1 Market Size and Forecast, By Component
- 6.2. Payload
  - 6.2.1. Key Market Trends, Growth Factors and Opportunities
  - 6.2.2. Market Size and Forecast, By Region
  - 6.2.3. Market Share Analysis, By Country
- 6.3. Structures And Mechanisms
  - 6.3.1. Key Market Trends, Growth Factors and Opportunities
  - 6.3.2. Market Size and Forecast, By Region
  - 6.3.3. Market Share Analysis, By Country
- 6.4. Thermal Control
  - 6.4.1. Key Market Trends, Growth Factors and Opportunities
  - 6.4.2. Market Size and Forecast, By Region

- 6.4.3. Market Share Analysis, By Country
- 6.5. Power Systems
  - 6.5.1. Key Market Trends, Growth Factors and Opportunities
  - 6.5.2. Market Size and Forecast, By Region
  - 6.5.3. Market Share Analysis, By Country
- 6.6. Propulsion
  - 6.6.1. Key Market Trends, Growth Factors and Opportunities
  - 6.6.2. Market Size and Forecast, By Region
  - 6.6.3. Market Share Analysis, By Country
- 6.7. Avionics
  - 6.7.1. Key Market Trends, Growth Factors and Opportunities
  - 6.7.2. Market Size and Forecast, By Region
  - 6.7.3. Market Share Analysis, By Country
- 6.8. Software
  - 6.8.1. Key Market Trends, Growth Factors and Opportunities
  - 6.8.2. Market Size and Forecast, By Region
  - 6.8.3. Market Share Analysis, By Country

## **CHAPTER 7: SPACECRAFT MARKET, BY APPLICATION**

- 7.1. Market Overview
  - 7.1.1 Market Size and Forecast, By Application
- 7.2. Communication
  - 7.2.1. Key Market Trends, Growth Factors and Opportunities
  - 7.2.2. Market Size and Forecast, By Region
  - 7.2.3. Market Share Analysis, By Country
- 7.3. Earth Observation And Remote Sensing
  - 7.3.1. Key Market Trends, Growth Factors and Opportunities
  - 7.3.2. Market Size and Forecast, By Region
  - 7.3.3. Market Share Analysis, By Country
- 7.4. Navigation And Mapping
  - 7.4.1. Key Market Trends, Growth Factors and Opportunities
  - 7.4.2. Market Size and Forecast, By Region
  - 7.4.3. Market Share Analysis, By Country
- 7.5. Space Exploration
  - 7.5.1. Key Market Trends, Growth Factors and Opportunities
  - 7.5.2. Market Size and Forecast, By Region
  - 7.5.3. Market Share Analysis, By Country
- 7.6. Scientific Research

- 7.6.1. Key Market Trends, Growth Factors and Opportunities
- 7.6.2. Market Size and Forecast, By Region
- 7.6.3. Market Share Analysis, By Country
- 7.7. Defense And Security
  - 7.7.1. Key Market Trends, Growth Factors and Opportunities
  - 7.7.2. Market Size and Forecast, By Region
  - 7.7.3. Market Share Analysis, By Country

## **CHAPTER 8: SPACECRAFT MARKET, BY REGION**

- 8.1. Market Overview
  - 8.1.1 Market Size and Forecast, By Region
- 8.2. North America
  - 8.2.1. Key Market Trends and Opportunities
  - 8.2.2. Market Size and Forecast, By Type
  - 8.2.3. Market Size and Forecast, By End Use Industry
  - 8.2.4. Market Size and Forecast, By Component
  - 8.2.5. Market Size and Forecast, By Application
  - 8.2.6. Market Size and Forecast, By Country
  - 8.2.7. U.S. Spacecraft Market
    - 8.2.7.1. Market Size and Forecast, By Type
    - 8.2.7.2. Market Size and Forecast, By End Use Industry
    - 8.2.7.3. Market Size and Forecast, By Component
    - 8.2.7.4. Market Size and Forecast, By Application
  - 8.2.8. Canada Spacecraft Market
    - 8.2.8.1. Market Size and Forecast, By Type
    - 8.2.8.2. Market Size and Forecast, By End Use Industry
    - 8.2.8.3. Market Size and Forecast, By Component
    - 8.2.8.4. Market Size and Forecast, By Application
  - 8.2.9. Mexico Spacecraft Market
    - 8.2.9.1. Market Size and Forecast, By Type
    - 8.2.9.2. Market Size and Forecast, By End Use Industry
    - 8.2.9.3. Market Size and Forecast, By Component
    - 8.2.9.4. Market Size and Forecast, By Application
- 8.3. Europe
  - 8.3.1. Key Market Trends and Opportunities
  - 8.3.2. Market Size and Forecast, By Type
  - 8.3.3. Market Size and Forecast, By End Use Industry
  - 8.3.4. Market Size and Forecast, By Component

- 8.3.5. Market Size and Forecast, By Application
- 8.3.6. Market Size and Forecast, By Country
- 8.3.7. UK Spacecraft Market
  - 8.3.7.1. Market Size and Forecast, By Type
  - 8.3.7.2. Market Size and Forecast, By End Use Industry
  - 8.3.7.3. Market Size and Forecast, By Component
  - 8.3.7.4. Market Size and Forecast, By Application
- 8.3.8. Germany Spacecraft Market
  - 8.3.8.1. Market Size and Forecast, By Type
  - 8.3.8.2. Market Size and Forecast, By End Use Industry
  - 8.3.8.3. Market Size and Forecast, By Component
  - 8.3.8.4. Market Size and Forecast, By Application
- 8.3.9. France Spacecraft Market
  - 8.3.9.1. Market Size and Forecast, By Type
  - 8.3.9.2. Market Size and Forecast, By End Use Industry
  - 8.3.9.3. Market Size and Forecast, By Component
  - 8.3.9.4. Market Size and Forecast, By Application
- 8.3.10. Russia Spacecraft Market
  - 8.3.10.1. Market Size and Forecast, By Type
  - 8.3.10.2. Market Size and Forecast, By End Use Industry
  - 8.3.10.3. Market Size and Forecast, By Component
  - 8.3.10.4. Market Size and Forecast, By Application
- 8.3.11. Rest Of Europe Spacecraft Market
  - 8.3.11.1. Market Size and Forecast, By Type
  - 8.3.11.2. Market Size and Forecast, By End Use Industry
  - 8.3.11.3. Market Size and Forecast, By Component
  - 8.3.11.4. Market Size and Forecast, By Application
- 8.4. Asia-Pacific
  - 8.4.1. Key Market Trends and Opportunities
  - 8.4.2. Market Size and Forecast, By Type
  - 8.4.3. Market Size and Forecast, By End Use Industry
  - 8.4.4. Market Size and Forecast, By Component
  - 8.4.5. Market Size and Forecast, By Application
  - 8.4.6. Market Size and Forecast, By Country
  - 8.4.7. China Spacecraft Market
    - 8.4.7.1. Market Size and Forecast, By Type
    - 8.4.7.2. Market Size and Forecast, By End Use Industry
    - 8.4.7.3. Market Size and Forecast, By Component
    - 8.4.7.4. Market Size and Forecast, By Application

#### 8.4.8. Japan Spacecraft Market

- 8.4.8.1. Market Size and Forecast, By Type
- 8.4.8.2. Market Size and Forecast, By End Use Industry
- 8.4.8.3. Market Size and Forecast, By Component
- 8.4.8.4. Market Size and Forecast, By Application

#### 8.4.9. India Spacecraft Market

- 8.4.9.1. Market Size and Forecast, By Type
- 8.4.9.2. Market Size and Forecast, By End Use Industry
- 8.4.9.3. Market Size and Forecast, By Component
- 8.4.9.4. Market Size and Forecast, By Application

#### 8.4.10. South Korea Spacecraft Market

- 8.4.10.1. Market Size and Forecast, By Type
- 8.4.10.2. Market Size and Forecast, By End Use Industry
- 8.4.10.3. Market Size and Forecast, By Component
- 8.4.10.4. Market Size and Forecast, By Application

#### 8.4.11. Rest of Asia-Pacific Spacecraft Market

- 8.4.11.1. Market Size and Forecast, By Type
- 8.4.11.2. Market Size and Forecast, By End Use Industry
- 8.4.11.3. Market Size and Forecast, By Component
- 8.4.11.4. Market Size and Forecast, By Application

### 8.5. LAMEA

#### 8.5.1. Key Market Trends and Opportunities

- 8.5.2. Market Size and Forecast, By Type
- 8.5.3. Market Size and Forecast, By End Use Industry
- 8.5.4. Market Size and Forecast, By Component
- 8.5.5. Market Size and Forecast, By Application
- 8.5.6. Market Size and Forecast, By Country

#### 8.5.7. Latin America Spacecraft Market

- 8.5.7.1. Market Size and Forecast, By Type
- 8.5.7.2. Market Size and Forecast, By End Use Industry
- 8.5.7.3. Market Size and Forecast, By Component
- 8.5.7.4. Market Size and Forecast, By Application

#### 8.5.8. Middle East Spacecraft Market

- 8.5.8.1. Market Size and Forecast, By Type
- 8.5.8.2. Market Size and Forecast, By End Use Industry
- 8.5.8.3. Market Size and Forecast, By Component
- 8.5.8.4. Market Size and Forecast, By Application

#### 8.5.9. Africa Spacecraft Market

- 8.5.9.1. Market Size and Forecast, By Type

- 8.5.9.2. Market Size and Forecast, By End Use Industry
- 8.5.9.3. Market Size and Forecast, By Component
- 8.5.9.4. Market Size and Forecast, By Application

## **CHAPTER 9: COMPETITIVE LANDSCAPE**

- 9.1. Introduction
- 9.2. Top Winning Strategies
- 9.3. Product Mapping Of Top 10 Player
- 9.4. Competitive Dashboard
- 9.5. Competitive Heatmap
- 9.6. Top Player Positioning, 2023

## **CHAPTER 10: COMPANY PROFILES**

- 10.1. Airbus SE
  - 10.1.1. Company Overview
  - 10.1.2. Key Executives
  - 10.1.3. Company Snapshot
  - 10.1.4. Operating Business Segments
  - 10.1.5. Product Portfolio
  - 10.1.6. Business Performance
  - 10.1.7. Key Strategic Moves and Developments
- 10.2. Berlin Space Technologies GmbH
  - 10.2.1. Company Overview
  - 10.2.2. Key Executives
  - 10.2.3. Company Snapshot
  - 10.2.4. Operating Business Segments
  - 10.2.5. Product Portfolio
  - 10.2.6. Business Performance
  - 10.2.7. Key Strategic Moves and Developments
- 10.3. Blue Origin LLC
  - 10.3.1. Company Overview
  - 10.3.2. Key Executives
  - 10.3.3. Company Snapshot
  - 10.3.4. Operating Business Segments
  - 10.3.5. Product Portfolio
  - 10.3.6. Business Performance
  - 10.3.7. Key Strategic Moves and Developments

- 10.4. Lockheed Martin Corporation
  - 10.4.1. Company Overview
  - 10.4.2. Key Executives
  - 10.4.3. Company Snapshot
  - 10.4.4. Operating Business Segments
  - 10.4.5. Product Portfolio
  - 10.4.6. Business Performance
  - 10.4.7. Key Strategic Moves and Developments
- 10.5. Mitsubishi Electric Corporation
  - 10.5.1. Company Overview
  - 10.5.2. Key Executives
  - 10.5.3. Company Snapshot
  - 10.5.4. Operating Business Segments
  - 10.5.5. Product Portfolio
  - 10.5.6. Business Performance
  - 10.5.7. Key Strategic Moves and Developments
- 10.6. Northrop Grumman Corporation
  - 10.6.1. Company Overview
  - 10.6.2. Key Executives
  - 10.6.3. Company Snapshot
  - 10.6.4. Operating Business Segments
  - 10.6.5. Product Portfolio
  - 10.6.6. Business Performance
  - 10.6.7. Key Strategic Moves and Developments
- 10.7. Roscosmos
  - 10.7.1. Company Overview
  - 10.7.2. Key Executives
  - 10.7.3. Company Snapshot
  - 10.7.4. Operating Business Segments
  - 10.7.5. Product Portfolio
  - 10.7.6. Business Performance
  - 10.7.7. Key Strategic Moves and Developments
- 10.8. Sierra Nevada Corporation
  - 10.8.1. Company Overview
  - 10.8.2. Key Executives
  - 10.8.3. Company Snapshot
  - 10.8.4. Operating Business Segments
  - 10.8.5. Product Portfolio
  - 10.8.6. Business Performance



- 10.8.7. Key Strategic Moves and Developments
- 10.9. Space Exploration Technologies Corporation
  - 10.9.1. Company Overview
  - 10.9.2. Key Executives
  - 10.9.3. Company Snapshot
  - 10.9.4. Operating Business Segments
  - 10.9.5. Product Portfolio
  - 10.9.6. Business Performance
  - 10.9.7. Key Strategic Moves and Developments
- 10.10. The Boeing Company
  - 10.10.1. Company Overview
  - 10.10.2. Key Executives
  - 10.10.3. Company Snapshot
  - 10.10.4. Operating Business Segments
  - 10.10.5. Product Portfolio
  - 10.10.6. Business Performance
  - 10.10.7. Key Strategic Moves and Developments



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