

# **Fixed-wing VTOL UAV Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Mode of Operation (Remotely Piloted, Optionally Piloted, Fully Autonomous), By Propulsion Type (Electric, Gasoline, Hybrid), By Application (Military, Government & Law Enforcement, Commercial), By Region, By Competition, 2020-2030F**

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## **Abstracts**

The Global Fixed-wing VTOL UAV Market was valued at USD 1224.66 Million in 2024 and is expected to reach USD 4540.24 Million by 2030 with a CAGR of 24.41% during the forecast period. The global fixed-wing Vertical Takeoff and Landing (VTOL) UAV market is experiencing significant growth, driven by increasing demand for versatile, efficient, and cost-effective unmanned aerial vehicles. These UAVs combine the capabilities of fixed-wing aircraft with the vertical lift of helicopters, making them ideal for applications in defense, surveillance, agriculture, and logistics. The market is fueled by advancements in aerodynamics, miniaturization, and battery technology, offering improved flight performance and longer operational durations.

### **Market Drivers**

#### **Technological Advancements in UAV Design and Performance**

Technological advancements in UAV design and performance are a major driver propelling the growth of the global fixed-wing VTOL UAV market. Innovations in aerodynamics, propulsion systems, and lightweight materials have enabled the development of more efficient and capable UAVs. Fixed-wing VTOL UAVs offer the unique advantage of combining the flight endurance and speed of fixed-wing aircraft

with the vertical takeoff and landing capability of rotorcraft. Enhanced battery technologies, particularly in lithium-polymer (LiPo) and lithium-sulfur (Li-S) batteries, have significantly improved the flight times of these UAVs. These innovations also extend to autonomous flight systems and sensor technologies, which contribute to improved operational safety and precision. As these technologies evolve, the ability of fixed-wing VTOL UAVs to conduct complex missions across various industries—such as surveillance, logistics, agriculture, and defense—continues to grow. Consequently, the demand for these UAVs is expected to rise as both military and civilian applications leverage these advancements to meet operational needs more efficiently.

### Rising Demand for UAVs in Commercial Applications

The increasing demand for UAVs in commercial applications is another key driver of the fixed-wing VTOL UAV market. Industries such as agriculture, logistics, surveying, and environmental monitoring are increasingly adopting UAVs for tasks that require both vertical takeoff and landing capabilities as well as the long-range flight advantages of fixed-wing aircraft. In agriculture, for instance, VTOL UAVs are used for precision farming, such as crop monitoring, pesticide spraying, and aerial imagery, offering significant operational efficiencies and cost reductions. Similarly, logistics companies are incorporating VTOL UAVs for last-mile deliveries, especially in remote or difficult-to-reach locations, where traditional transportation methods may be less effective. The ease of deployment and ability to operate in confined spaces without the need for dedicated runways make fixed-wing VTOL UAVs ideal for such commercial applications. Furthermore, with advancements in payload capacity and range, these UAVs are increasingly able to handle more complex commercial tasks, driving demand across various sectors.

### Military and Defense Applications

The military and defense sector continues to be a leading contributor to the growth of the global fixed-wing VTOL UAV market. VTOL UAVs are gaining popularity within defense organizations worldwide for their versatility in conducting surveillance, reconnaissance, intelligence gathering, and tactical operations. These UAVs are particularly useful in combat zones or environments where traditional aircraft cannot be deployed due to space or logistical constraints. The ability to take off and land vertically allows military personnel to operate these UAVs from confined areas, such as ships, mountainous terrain, or urban environments, without requiring expansive runways or landing strips. Additionally, their capability to stay airborne for extended periods allows for continuous surveillance over critical areas. As a result, military forces are

increasingly investing in fixed-wing VTOL UAVs to enhance operational effectiveness, reduce risks to personnel, and improve situational awareness in various defense operations. The continued focus on national security and defense modernization is likely to sustain the growth of the fixed-wing VTOL UAV market within the defense sector.

### Favorable Regulatory Environment and Government Support

A supportive regulatory environment and increasing government investments are essential drivers fueling the expansion of the fixed-wing VTOL UAV market. Governments around the world are recognizing the potential of UAVs in commercial and military applications, which has led to the creation of regulatory frameworks aimed at promoting safe and efficient UAV operations. In many regions, such as the United States and European Union, authorities like the Federal Aviation Administration (FAA) and European Union Aviation Safety Agency (EASA) have been working to establish guidelines and standards for UAV flight, which enables greater integration of UAVs into national airspace systems. As of October 1, 2024, nearly 800,000 drones have been officially registered with the Federal Aviation Administration (FAA) in the United States. This figure includes a mix of commercial, recreational, and government-operated drones, reflecting the growing adoption of unmanned aerial systems (UAS) across various industries. This regulatory support has helped overcome some of the barriers to adoption, such as concerns about safety, privacy, and air traffic management. Moreover, governments are increasingly investing in the development and testing of advanced UAV technologies, including fixed-wing VTOL UAVs, as part of defense modernization programs and research initiatives. These investments, coupled with subsidies and incentives, encourage the growth of the market by reducing costs for manufacturers and operators. As regulations evolve to accommodate the growing use of UAVs, the fixed-wing VTOL UAV market is expected to experience continued growth, particularly in regions with robust regulatory frameworks.

### Key Market Challenges

#### Regulatory and Airspace Management Challenges

One of the significant challenges facing the global fixed-wing VTOL UAV market is the complex regulatory landscape and airspace management. Despite the increasing adoption of UAVs in various sectors, governments and aviation authorities continue to grapple with how to safely integrate UAVs into national airspace systems. In October 2024, the North American Aerospace Defense Command (NORAD), a joint U.S.-Canadian defense organization, officially revealed that approximately 600

unauthorized drone incursions had occurred over U.S. military sites since 2022. These incidents underscore the increasing concern over airspace security, particularly around sensitive military installations. Fixed-wing VTOL UAVs, due to their vertical takeoff and landing capabilities, must navigate a regulatory environment that often lacks clear guidelines for such operations. In many regions, airspace management protocols were not originally designed to accommodate a large number of UAVs, and this has raised concerns about collision risks, interference with manned aircraft, and air traffic control. Regulatory bodies like the Federal Aviation Administration (FAA) in the United States and the European Union Aviation Safety Agency (EASA) are working to develop specific rules for UAV operations, but the lack of standardized regulations for fixed-wing VTOL UAVs creates a barrier for manufacturers and operators. These regulations include requirements for pilot certification, flight path approval, insurance, and safety measures, which often vary across regions, adding complexity for global market players. Until there is a more uniform regulatory framework and airspace integration system, the growth of the fixed-wing VTOL UAV market could be slowed due to compliance challenges and operational limitations.

### High Development and Operational Costs

Another challenge faced by the global fixed-wing VTOL UAV market is the high development and operational costs associated with these advanced UAV systems. While technological innovations have significantly improved the capabilities and performance of VTOL UAVs, these advancements often come with a hefty price tag. The development of fixed-wing VTOL UAVs requires substantial investment in research and development, as well as the use of specialized materials such as lightweight composites and advanced propulsion systems. These components are essential for ensuring long-range endurance, high payload capacity, and reliability, but they significantly increase the cost of manufacturing. Additionally, the production of fixed-wing VTOL UAVs often involves precision engineering and testing, which further raises the cost. For smaller businesses or startups that may want to enter the market, these high development costs can be prohibitive. Moreover, operational costs, including maintenance, battery replacement, and training for operators, can also be substantial. As a result, the overall cost-effectiveness of fixed-wing VTOL UAVs remains a concern, particularly for sectors such as agriculture or logistics, where price sensitivity is high. Although the costs may reduce over time with technological improvements and economies of scale, the initial high expenses can still present a challenge to widespread adoption and market growth.

### Limited Battery Life and Payload Capacity

While fixed-wing VTOL UAVs offer extended flight times compared to traditional rotorcraft, they still face limitations related to battery life and payload capacity. These UAVs rely on battery power for both vertical takeoff and landing as well as for maintaining long-duration flights. Current battery technology, primarily lithium-ion and lithium-polymer, while improving, still limits the flight time and payload capacity of these UAVs. The vertical takeoff and landing process is highly energy-intensive, which reduces the overall flight time of the UAV compared to traditional fixed-wing aircraft. For applications such as surveillance, logistics, or agricultural monitoring, longer flight durations are often required to cover large areas or complete complex tasks. As a result, there is ongoing demand for improvements in battery technology to extend flight times and enhance overall UAV efficiency. Similarly, payload capacity is often a concern, especially when it comes to carrying heavy sensors, cameras, or delivery packages. Although advances in materials and aerodynamics have improved the payload-to-weight ratio of VTOL UAVs, they still struggle with lifting heavier payloads over longer distances. This limits their effectiveness in applications that require the transport of larger or more numerous goods, and companies may find themselves needing to use multiple UAVs for large-scale operations, which raises operational costs. Until significant breakthroughs in battery technology or alternative power sources, such as fuel cells, are realized, the limitations of battery life and payload capacity will remain a challenge for the fixed-wing VTOL UAV market.

## Key Market Trends

### Integration of Artificial Intelligence and Machine Learning in UAV Operations

One of the prominent trends shaping the global fixed-wing VTOL UAV market is the integration of artificial intelligence (AI) and machine learning (ML) technologies into UAV operations. As the demand for autonomous flight increases across various industries, AI and ML are becoming essential for enhancing the intelligence and efficiency of UAV systems. These technologies enable fixed-wing VTOL UAVs to perform complex tasks such as real-time data processing, navigation, obstacle detection, and decision-making without requiring continuous human intervention. AI-based algorithms can improve the UAV's ability to analyze vast amounts of data from sensors, cameras, and other onboard systems, leading to more accurate and informed decision-making during flight. For instance, in surveillance and reconnaissance applications, AI can help UAVs automatically identify targets, track moving objects, and adjust flight paths based on changing conditions. Machine learning further enables UAVs to learn from past missions and continuously improve their performance. This growing trend of integrating



AI and ML is pushing the boundaries of fixed-wing VTOL UAV capabilities, making them increasingly autonomous, reducing operational costs, and improving mission success rates. As these technologies mature, they are expected to become a critical part of both commercial and military UAV systems.

### Collaboration Between UAV Manufacturers and Technology Providers

Another key trend in the fixed-wing VTOL UAV market is the increasing collaboration between UAV manufacturers and technology providers, particularly in the areas of software, sensors, and propulsion systems. As the demand for more sophisticated and efficient UAVs grows, manufacturers are partnering with technology firms to integrate advanced components that enhance the performance and capabilities of fixed-wing VTOL UAVs. For example, UAV makers are collaborating with software companies to develop more robust flight control systems, which provide improved stability, greater autonomy, and enhanced operational safety. Similarly, the integration of cutting-edge sensor technologies, such as LiDAR, thermal imaging, and multispectral sensors, is helping UAVs capture more accurate and comprehensive data for applications like environmental monitoring, agriculture, and infrastructure inspection. In addition, partnerships with battery and propulsion technology companies are enabling manufacturers to enhance energy efficiency, extend flight times, and improve payload capacity. These collaborations not only improve the performance of fixed-wing VTOL UAVs but also accelerate innovation within the industry. As the market continues to grow, partnerships between UAV manufacturers and tech companies are expected to become more common, driving the development of more advanced, feature-rich UAV systems.

### Expanding Use in Urban Air Mobility (UAM)

The fixed-wing VTOL UAV market is also witnessing a growing trend of expanding applications within the Urban Air Mobility (UAM) sector. UAM refers to the use of aerial transportation systems in urban environments, aiming to alleviate traffic congestion and provide faster, more efficient transportation solutions. Although UAM initially gained attention in the context of eVTOL (electric Vertical Take-Off and Landing) aircraft for passenger transport, fixed-wing VTOL UAVs are increasingly being recognized for their potential in this sector, particularly for cargo and logistics operations. These UAVs are well-suited for urban environments, where vertical takeoff and landing capabilities allow them to operate in tight spaces such as rooftops, parking lots, and urban air corridors without requiring traditional runways. In the logistics sector, fixed-wing VTOL UAVs can be used for rapid parcel delivery, offering an innovative solution for last-mile logistics,

especially in congested cities. In addition to commercial applications, there is also growing interest in using fixed-wing VTOL UAVs for emergency services, such as rapid medical supply delivery or disaster relief operations. As UAM infrastructure and regulations evolve, the demand for fixed-wing VTOL UAVs is expected to increase, especially as cities explore aerial transport as a way to reduce ground-level congestion and improve mobility.

### Focus on Sustainability and Green Technologies

Sustainability is becoming an increasingly important trend in the fixed-wing VTOL UAV market, driven by growing concerns over environmental impact and the push for greener technologies. The aviation industry, including UAVs, is under increasing scrutiny to reduce emissions and minimize its carbon footprint. In response, manufacturers of fixed-wing VTOL UAVs are prioritizing the development of more energy-efficient and environmentally friendly systems. This includes a shift towards electric and hybrid-electric propulsion systems that reduce reliance on fossil fuels and lower emissions during flight. The integration of green technologies, such as solar power for supplementary charging and regenerative braking systems, is also becoming more prevalent in the design of UAVs. Additionally, the use of lightweight materials, such as carbon fiber composites, is helping to reduce the overall weight of UAVs, making them more fuel-efficient and contributing to better flight performance. These advancements in sustainable technologies not only align with global efforts to reduce carbon emissions but also provide a competitive advantage for UAV manufacturers as businesses and governments increasingly demand eco-friendly solutions. As sustainability becomes a more pressing issue, the adoption of green technologies in the fixed-wing VTOL UAV market is expected to accelerate, contributing to the long-term growth of the sector.

### Segmental Insights

#### Application Insights

The military sector was emerging as the fastest-growing segment in the fixed-wing VTOL UAV market. The increasing need for versatile, high-performance UAVs in defense operations, such as surveillance, reconnaissance, and intelligence gathering, is driving significant growth. Fixed-wing VTOL UAVs offer the unique advantage of vertical takeoff and landing, allowing them to operate in constrained environments like ships or mountainous terrain. These UAVs also provide extended flight endurance, real-time data transmission, and enhanced mission flexibility, making them invaluable in modern

warfare. As defense budgets rise globally and military forces seek advanced technologies, the demand for fixed-wing VTOL UAVs continues to soar.

### Regional Insights

North America was the dominant region in the global fixed-wing VTOL UAV market, driven by significant investments in defense and commercial UAV applications. The United States, in particular, plays a key role, with a robust defense budget and a strong focus on advanced technologies for military operations, surveillance, and logistics. Additionally, North America boasts a well-established regulatory framework, enabling smoother UAV integration into airspace systems. The region's demand for UAVs in sectors such as agriculture, infrastructure inspection, and logistics further accelerates market growth. With ongoing innovation and government support, North America is expected to maintain its leadership in the UAV market.

### Key Market Players

Turkish Aerospace Industries Inc

Boeing Company

Textron Inc

Saab Group

AeroVironment Inc

Schiebel Elektronische Gerate GmbH

Israel Aerospace Industries Ltd

Lockheed Martin Corporation

SZ DJI Technology Co., Ltd.

Northrop Grumman Corporation

### Report Scope:

*Fixed-wing VTOL UAV Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Mode...*



In this report, the global Fixed-wing VTOL UAV Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Fixed-wing VTOL UAV Market, By Mode of Operation:

Remotely Piloted

Optionally Piloted

Fully Autonomous

Fixed-wing VTOL UAV Market, By Propulsion Type:

Electric

Gasoline

Hybrid

Fixed-wing VTOL UAV Market, By Application:

Military

Government & Law Enforcement

Commercial

Fixed-wing VTOL UAV Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

France

Germany

Spain

Italy

United Kingdom

Asia-Pacific

China

Japan

India

Vietnam

South Korea

Australia

Thailand

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

South America

Brazil

Argentina

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the global Fixed-wing VTOL UAV Market.

## Available Customizations:

Global Fixed-wing VTOL UAV Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. INTRODUCTION

- 1.1. Market Overview
- 1.2. Key Highlights of the Report
- 1.3. Market Coverage
- 1.4. Market Segments Covered
- 1.5. Research Tenure Considered

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

### 4. GLOBAL FIXED-WING VTOL UAV MARKET OUTLOOK

- 4.1. Market Size & Forecast
  - 4.1.1. By Value
- 4.2. Market Share & Forecast
  - 4.2.1. By Mode of Operation Market Share Analysis (Remotely Piloted, Optionally Piloted, Fully Autonomous)
  - 4.2.2. By Propulsion Type Market Share Analysis (Electric, Gasoline, Hybrid)
  - 4.2.3. By Application Market Share Analysis (Military, Government & Law Enforcement, Commercial)
  - 4.2.4. By Regional Market Share Analysis
    - 4.2.4.1. North America Market Share Analysis

- 4.2.4.2. Europe & CIS Market Share Analysis
- 4.2.4.3. Asia-Pacific Market Share Analysis
- 4.2.4.4. Middle East & Africa Market Share Analysis
- 4.2.4.5. South America Market Share Analysis
- 4.2.5. By Top 5 Companies Market Share Analysis, Others (2024)
- 4.3. Global Fixed-wing VTOL UAV Market Mapping & Opportunity Assessment
  - 4.3.1. By Mode of Operation Market Mapping & Opportunity Assessment
  - 4.3.2. By Propulsion Type Mapping & Opportunity Assessment
  - 4.3.3. By Application Mapping & Opportunity Assessment
  - 4.3.4. By Regional Market Mapping & Opportunity Assessment

## **5. NORTH AMERICA FIXED-WING VTOL UAV MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Mode of Operation Market Share Analysis
  - 5.2.2. By Propulsion Type Market Share Analysis
  - 5.2.3. By Application Market Share Analysis
  - 5.2.4. By Country Market Share Analysis
    - 5.2.4.1. United States Fixed-wing VTOL UAV Market Outlook
      - 5.2.4.1.1. Market Size & Forecast
        - 5.2.4.1.1.1. By Value
      - 5.2.4.1.2. Market Share & Forecast
        - 5.2.4.1.2.1. By Mode of Operation Market Share Analysis
        - 5.2.4.1.2.2. By Propulsion Type Market Share Analysis
        - 5.2.4.1.2.3. By Application Market Share Analysis
    - 5.2.4.2. Canada Fixed-wing VTOL UAV Market Outlook
      - 5.2.4.2.1. Market Size & Forecast
        - 5.2.4.2.1.1. By Value
      - 5.2.4.2.2. Market Share & Forecast
        - 5.2.4.2.2.1. By Mode of Operation Market Share Analysis
        - 5.2.4.2.2.2. By Propulsion Type Market Share Analysis
        - 5.2.4.2.2.3. By Application Market Share Analysis
    - 5.2.4.3. Mexico Fixed-wing VTOL UAV Market Outlook
      - 5.2.4.3.1. Market Size & Forecast
        - 5.2.4.3.1.1. By Value
      - 5.2.4.3.2. Market Share & Forecast
        - 5.2.4.3.2.1. By Mode of Operation Market Share Analysis

5.2.4.3.2.2. By Propulsion Type Market Share Analysis

5.2.4.3.2.3. By Application Market Share Analysis

## **6. EUROPE & CIS FIXED-WING VTOL UAV MARKET OUTLOOK**

### **6.1. Market Size & Forecast**

#### **6.1.1. By Value**

### **6.2. Market Share & Forecast**

#### **6.2.1. By Mode of Operation Market Share Analysis**

#### **6.2.2. By Propulsion Type Market Share Analysis**

#### **6.2.3. By Application Market Share Analysis**

#### **6.2.4. By Country Market Share Analysis**

##### **6.2.4.1. France Fixed-wing VTOL UAV Market Outlook**

###### **6.2.4.1.1. Market Size & Forecast**

###### **6.2.4.1.1.1. By Value**

###### **6.2.4.1.2. Market Share & Forecast**

###### **6.2.4.1.2.1. By Mode of Operation Market Share Analysis**

###### **6.2.4.1.2.2. By Propulsion Type Market Share Analysis**

###### **6.2.4.1.2.3. By Application Market Share Analysis**

##### **6.2.4.2. Germany Fixed-wing VTOL UAV Market Outlook**

###### **6.2.4.2.1. Market Size & Forecast**

###### **6.2.4.2.1.1. By Value**

###### **6.2.4.2.2. Market Share & Forecast**

###### **6.2.4.2.2.1. By Mode of Operation Market Share Analysis**

###### **6.2.4.2.2.2. By Propulsion Type Market Share Analysis**

###### **6.2.4.2.2.3. By Application Market Share Analysis**

##### **6.2.4.3. Spain Fixed-wing VTOL UAV Market Outlook**

###### **6.2.4.3.1. Market Size & Forecast**

###### **6.2.4.3.1.1. By Value**

###### **6.2.4.3.2. Market Share & Forecast**

###### **6.2.4.3.2.1. By Mode of Operation Market Share Analysis**

###### **6.2.4.3.2.2. By Propulsion Type Market Share Analysis**

###### **6.2.4.3.2.3. By Application Market Share Analysis**

##### **6.2.4.4. Italy Fixed-wing VTOL UAV Market Outlook**

###### **6.2.4.4.1. Market Size & Forecast**

###### **6.2.4.4.1.1. By Value**

###### **6.2.4.4.2. Market Share & Forecast**

###### **6.2.4.4.2.1. By Mode of Operation Market Share Analysis**

###### **6.2.4.4.2.2. By Propulsion Type Market Share Analysis**



- 6.2.4.4.2.3. By Application Market Share Analysis
- 6.2.4.5. United Kingdom Fixed-wing VTOL UAV Market Outlook
  - 6.2.4.5.1. Market Size & Forecast
    - 6.2.4.5.1.1. By Value
  - 6.2.4.5.2. Market Share & Forecast
    - 6.2.4.5.2.1. By Mode of Operation Market Share Analysis
    - 6.2.4.5.2.2. By Propulsion Type Market Share Analysis
    - 6.2.4.5.2.3. By Application Market Share Analysis

## **7. ASIA-PACIFIC FIXED-WING VTOL UAV MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Mode of Operation Market Share Analysis
  - 7.2.2. By Propulsion Type Market Share Analysis
  - 7.2.3. By Application Market Share Analysis
  - 7.2.4. By Country Market Share Analysis
    - 7.2.4.1. China Fixed-wing VTOL UAV Market Outlook
      - 7.2.4.1.1. Market Size & Forecast
        - 7.2.4.1.1.1. By Value
      - 7.2.4.1.2. Market Share & Forecast
        - 7.2.4.1.2.1. By Mode of Operation Market Share Analysis
        - 7.2.4.1.2.2. By Propulsion Type Market Share Analysis
        - 7.2.4.1.2.3. By Application Market Share Analysis
    - 7.2.4.2. Japan Fixed-wing VTOL UAV Market Outlook
      - 7.2.4.2.1. Market Size & Forecast
        - 7.2.4.2.1.1. By Value
      - 7.2.4.2.2. Market Share & Forecast
        - 7.2.4.2.2.1. By Mode of Operation Market Share Analysis
        - 7.2.4.2.2.2. By Propulsion Type Market Share Analysis
        - 7.2.4.2.2.3. By Application Market Share Analysis
    - 7.2.4.3. India Fixed-wing VTOL UAV Market Outlook
      - 7.2.4.3.1. Market Size & Forecast
        - 7.2.4.3.1.1. By Value
      - 7.2.4.3.2. Market Share & Forecast
        - 7.2.4.3.2.1. By Mode of Operation Market Share Analysis
        - 7.2.4.3.2.2. By Propulsion Type Market Share Analysis
        - 7.2.4.3.2.3. By Application Market Share Analysis

- 7.2.4.4. Vietnam Fixed-wing VTOL UAV Market Outlook
  - 7.2.4.4.1. Market Size & Forecast
    - 7.2.4.4.1.1. By Value
  - 7.2.4.4.2. Market Share & Forecast
    - 7.2.4.4.2.1. By Mode of Operation Market Share Analysis
    - 7.2.4.4.2.2. By Propulsion Type Market Share Analysis
    - 7.2.4.4.2.3. By Application Market Share Analysis
- 7.2.4.5. South Korea Fixed-wing VTOL UAV Market Outlook
  - 7.2.4.5.1. Market Size & Forecast
    - 7.2.4.5.1.1. By Value
  - 7.2.4.5.2. Market Share & Forecast
    - 7.2.4.5.2.1. By Mode of Operation Market Share Analysis
    - 7.2.4.5.2.2. By Propulsion Type Market Share Analysis
    - 7.2.4.5.2.3. By Application Market Share Analysis
- 7.2.4.6. Australia Fixed-wing VTOL UAV Market Outlook
  - 7.2.4.6.1. Market Size & Forecast
    - 7.2.4.6.1.1. By Value
  - 7.2.4.6.2. Market Share & Forecast
    - 7.2.4.6.2.1. By Mode of Operation Market Share Analysis
    - 7.2.4.6.2.2. By Propulsion Type Market Share Analysis
    - 7.2.4.6.2.3. By Application Market Share Analysis
- 7.2.4.7. Thailand Fixed-wing VTOL UAV Market Outlook
  - 7.2.4.7.1. Market Size & Forecast
    - 7.2.4.7.1.1. By Value
  - 7.2.4.7.2. Market Share & Forecast
    - 7.2.4.7.2.1. By Mode of Operation Market Share Analysis
    - 7.2.4.7.2.2. By Propulsion Type Market Share Analysis
    - 7.2.4.7.2.3. By Application Market Share Analysis

## **8. MIDDLE EAST & AFRICA FIXED-WING VTOL UAV MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Mode of Operation Market Share Analysis
  - 8.2.2. By Propulsion Type Market Share Analysis
  - 8.2.3. By Application Market Share Analysis
  - 8.2.4. By Country Market Share Analysis
    - 8.2.4.1. South Africa Fixed-wing VTOL UAV Market Outlook

- 8.2.4.1.1. Market Size & Forecast
  - 8.2.4.1.1.1. By Value
- 8.2.4.1.2. Market Share & Forecast
  - 8.2.4.1.2.1. By Mode of Operation Market Share Analysis
  - 8.2.4.1.2.2. By Propulsion Type Market Share Analysis
  - 8.2.4.1.2.3. By Application Market Share Analysis
- 8.2.4.2. Saudi Arabia Fixed-wing VTOL UAV Market Outlook
  - 8.2.4.2.1. Market Size & Forecast
    - 8.2.4.2.1.1. By Value
  - 8.2.4.2.2. Market Share & Forecast
    - 8.2.4.2.2.1. By Mode of Operation Market Share Analysis
    - 8.2.4.2.2.2. By Propulsion Type Market Share Analysis
    - 8.2.4.2.2.3. By Application Market Share Analysis
- 8.2.4.3. UAE Fixed-wing VTOL UAV Market Outlook
  - 8.2.4.3.1. Market Size & Forecast
    - 8.2.4.3.1.1. By Value
  - 8.2.4.3.2. Market Share & Forecast
    - 8.2.4.3.2.1. By Mode of Operation Market Share Analysis
    - 8.2.4.3.2.2. By Propulsion Type Market Share Analysis
    - 8.2.4.3.2.3. By Application Market Share Analysis
- 8.2.4.4. Turkey Fixed-wing VTOL UAV Market Outlook
  - 8.2.4.4.1. Market Size & Forecast
    - 8.2.4.4.1.1. By Value
  - 8.2.4.4.2. Market Share & Forecast
    - 8.2.4.4.2.1. By Mode of Operation Market Share Analysis
    - 8.2.4.4.2.2. By Propulsion Type Market Share Analysis
    - 8.2.4.4.2.3. By Application Market Share Analysis

## **9. SOUTH AMERICA FIXED-WING VTOL UAV MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Mode of Operation Market Share Analysis
  - 9.2.2. By Propulsion Type Market Share Analysis
  - 9.2.3. By Application Market Share Analysis
  - 9.2.4. By Country Market Share Analysis
    - 9.2.4.1. Brazil Fixed-wing VTOL UAV Market Outlook
      - 9.2.4.1.1. Market Size & Forecast

- 9.2.4.1.1.1. By Value
- 9.2.4.1.2. Market Share & Forecast
  - 9.2.4.1.2.1. By Mode of Operation Market Share Analysis
  - 9.2.4.1.2.2. By Propulsion Type Market Share Analysis
  - 9.2.4.1.2.3. By Application Market Share Analysis
- 9.2.4.2. Argentina Fixed-wing VTOL UAV Market Outlook
  - 9.2.4.2.1. Market Size & Forecast
    - 9.2.4.2.1.1. By Value
  - 9.2.4.2.2. Market Share & Forecast
    - 9.2.4.2.2.1. By Mode of Operation Market Share Analysis
    - 9.2.4.2.2.2. By Propulsion Type Market Share Analysis
    - 9.2.4.2.2.3. By Application Market Share Analysis

## **10. MARKET DYNAMICS**

- 10.1. Drivers
- 10.2. Challenges

## **11. IMPACT OF COVID-19 ON GLOBAL FIXED-WING VTOL UAV MARKET**

- 11.1. Impact Assessment Model
  - 11.1.1. Key Segments Impacted
  - 11.1.2. Key Regions Impacted
  - 11.1.3. Key Countries Impacted

## **12. MARKET TRENDS & DEVELOPMENTS**

## **13. COMPETITIVE LANDSCAPE**

- 13.1. Company Profiles
  - 13.1.1. Turkish Aerospace Industries Inc
    - 13.1.1.1. Company Details
    - 13.1.1.2. Products
    - 13.1.1.3. Financials (As Per Availability)
    - 13.1.1.4. Key Market Focus & Geographical Presence
    - 13.1.1.5. Recent Developments
    - 13.1.1.6. Key Management Personnel
  - 13.1.2. Boeing Company
    - 13.1.2.1. Company Details

- 13.1.2.2. Products
- 13.1.2.3. Financials (As Per Availability)
- 13.1.2.4. Key Market Focus & Geographical Presence
- 13.1.2.5. Recent Developments
- 13.1.2.6. Key Management Personnel
- 13.1.3. Textron Inc
  - 13.1.3.1. Company Details
  - 13.1.3.2. Products
  - 13.1.3.3. Financials (As Per Availability)
  - 13.1.3.4. Key Market Focus & Geographical Presence
  - 13.1.3.5. Recent Developments
  - 13.1.3.6. Key Management Personnel
- 13.1.4. Saab Group
  - 13.1.4.1. Company Details
  - 13.1.4.2. Products
  - 13.1.4.3. Financials (As Per Availability)
  - 13.1.4.4. Key Market Focus & Geographical Presence
  - 13.1.4.5. Recent Developments
  - 13.1.4.6. Key Management Personnel
- 13.1.5. AeroVironment Inc
  - 13.1.5.1. Company Details
  - 13.1.5.2. Products
  - 13.1.5.3. Financials (As Per Availability)
  - 13.1.5.4. Key Market Focus & Geographical Presence
  - 13.1.5.5. Recent Developments
  - 13.1.5.6. Key Management Personnel
- 13.1.6. Schiebel Elektronische Gerate GmbH
  - 13.1.6.1. Company Details
  - 13.1.6.2. Products
  - 13.1.6.3. Financials (As Per Availability)
  - 13.1.6.4. Key Market Focus & Geographical Presence
  - 13.1.6.5. Recent Developments
  - 13.1.6.6. Key Management Personnel
- 13.1.7. Israel Aerospace Industries Ltd
  - 13.1.7.1. Company Details
  - 13.1.7.2. Products
  - 13.1.7.3. Financials (As Per Availability)
  - 13.1.7.4. Key Market Focus & Geographical Presence
  - 13.1.7.5. Recent Developments

- 13.1.7.6. Key Management Personnel
- 13.1.8. Lockheed Martin Corporation
  - 13.1.8.1. Company Details
  - 13.1.8.2. Products
  - 13.1.8.3. Financials (As Per Availability)
  - 13.1.8.4. Key Market Focus & Geographical Presence
  - 13.1.8.5. Recent Developments
  - 13.1.8.6. Key Management Personnel
- 13.1.9. SZ DJI Technology Co., Ltd.
  - 13.1.9.1. Company Details
  - 13.1.9.2. Products
  - 13.1.9.3. Financials (As Per Availability)
  - 13.1.9.4. Key Market Focus & Geographical Presence
  - 13.1.9.5. Recent Developments
  - 13.1.9.6. Key Management Personnel
- 13.1.10. Northrop Grumman Corporation
  - 13.1.10.1. Company Details
  - 13.1.10.2. Products
  - 13.1.10.3. Financials (As Per Availability)
  - 13.1.10.4. Key Market Focus & Geographical Presence
  - 13.1.10.5. Recent Developments
  - 13.1.10.6. Key Management Personnel

## **14. STRATEGIC RECOMMENDATIONS/ACTION PLAN**

- 14.1. Key Focus Areas
- 14.2. Target Mode of Operation
- 14.3. Target Application

## **15. ABOUT US & DISCLAIMER**



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