Global Passenger Drones Market Research Report: Information by Component (Airframe, Controller System, Navigation System, Propulsion System and others), by Capacity (Up to 100 kg and Over 100 kg), by Application (Commercial and Personal), by Rotor (Less Than 10 and More Than 10) and by Region (North America, Europe, Asia-Pacific, the Middle East & Africa and Latin America) - Forecast till 2025

Market Scenario

Global Passenger Drones Market is expected to exhibit a CAGR of 27.74% during the forecast period 2019 to 2025. A number of companies are currently exploring the use of passenger drones as air-taxis, air-cargo, or for air-ambulance services. The concept of passenger drones is relatively new. In 2018, the market was led by Europe and was followed by Asia-Pacific and North America. The Asia-Pacific region has become a lucrative region for the firms that develop passenger drones and related systems, due to the increasing focus of countries such as China, Japan, and South Korea.

Factors such as growing urban population coupled with rising traffic congestion problems, rapid technological advancements, and decline in drone costs, increasing participation of companies are driving the market growth. Meanwhile, limited endurance and safety concerns are hindering the market growth to a certain extent and factors such as lack of regulatory framework, supporting infrastructure, cohesive air-traffic management network, and skilled drone operators/pilots are a significant challenge to the market. However, the focus on reducing vehicular pollution will offer promising growth opportunities for the market.

Segmentation of the Global Passenger drones Market
The passenger drones market has been segmented based on component, capacity, application, rotor, and region. Based on component, the market has been segregated into the airframe, controller system, a navigation system, propulsion system, and others. The airframe segment is expected to witness the highest CAGR during the forecast period. The airframe refers to the physical structure of the drone that aids in achieving controlled flight. The design and configuration of drone airframes mainly depend on the task to be performed and the payload to be carried. Aerial aluminum alloy, plastic, and carbon fiber are used for the construction of passenger drone airframe. Nowadays, companies are focusing on developing drone airframe structures with reduced size, high durability, and other improved features.

Based on capacity, the market has been divided into up to 100 kg and over 100 kg. The up to 100 kg segment is expected to be the largest segment in the review period. This segment covers the market for passenger drones that are capable of carrying payload less than 100 kg. Presently, most of the drones developed fall into this category. For instance, in 2016, EHANG unveiled EHANG 184—manned version of traditional drone that provides transportation for a single passenger weighing no more than 100 kilograms.

Based on application, the market has been bifurcated into commercial and personal. The commercial segment is expected to be the largest in the forecast period. This segment covers the market for passenger drones used for commercial applications. Till date, apart from a few exhibits and test flights, there is no wide-scale implementation of passenger drones. However, over the next decade, it is most likely that the passenger drones will be commonly used in amusement parks and other tourist destinations, hospitals for emergency purposes, police for security and surveillance purposes, and so on.

Based on the region, the market has been classified as North America, Europe, Asia-Pacific, Middle East & Africa, and Latin America. Europe is expected to dominate the market in the forecast period due to the sheer presence of major passenger drones companies such as AeroMobil, Airbus SAS, Lilium, and Volocopter GmbH. Moreover, the key drivers for the European market are increasing joint ventures & partnerships, along with rapid technological advancements.

North America is the second-largest region in the passenger drones market. The sheer existence of the key companies, such as Boeing, Workhorse, and Joby Aviation, combined with the availability of sophisticated technologies to deliver innovative solutions enables this region to be a promising market.

Asia-Pacific, an emerging region in the passenger drone market, relies mainly on the few countries such as China, Japan, and South Korea. The increasing urban population, rising disposable income,
and focus on drones for transportation purposes will bolster the market growth in this region. Among the mention countries, China is strategically an important market, whereas, Japan and South Korea are promising markets for passenger drones.

Key Players

The key players in the global passenger drones market are AeroMobil (Slovakia), Airbus SAS (France), Cartivator (Japan), EHang (China), Joby Aviation (US), Lilium (Germany), TERRAFUGIA (US), The Boeing Company (US), Uber Technologies Inc. (US), and Volocopter GmbH (Germany).

Research Methodology

The market values and forecast are derived using the Market Research Future (MRFR) research methodology, which includes secondary research, primary interviews, data triangulation, and validation from an in-house data repository and statistical modeling tools.

Secondary Research

In this process, data is collected from various secondary sources, including annual reports, SEC filings, journals, government associations, aerospace & defense magazines, white papers, corporate presentations, company websites, and paid databases.

Primary Research

In this process, both the demand- and supply-side parties are interviewed to extract facts and insights into the market forecast, production, trends, and projected market growth. Industry stakeholders such as CEOs, VPs, directors, and marketing executives across the value chain are approached to obtain key information.

Key Insights

- Market Sizing, Forecast, and Analysis: Detailed coverage of the market segment and sub-segments
- Regional/Country Trends and Forecast: Detailed analysis of the market in North America, Europe, Asia-Pacific, Middle East & Africa, and Latin America, along with key countries in each region
- Market Dynamics Intelligence: Market drivers, opportunities, trends, restraints, Porter’s five forces, supply chain, and value chain analysis
- Technology Trends, Regulatory Landscape, and Patent Analysis Outlook
- Competitive Intelligence: Market share analysis, financial analysis, product benchmarking, and strategic developments including joint ventures, product launches, and mergers & acquisitions
- Regional attractiveness and related growth opportunities

Report Customization

MRFR offers report customization to valued customers. Below are the options available for customization:

- **Company Profiles**
  In-depth profiling of additional market players (3 to 4 companies)

- **Country-Level Analysis**
  Detailed analysis of a country-level market and related segments as per the report scope (subject to data availability)

Intended Audience

- Passenger drone manufacturers
- Other UAV manufacturers
- Potential investors
- Raw material suppliers
- GNC solution providers
- Associations
Infographic Summary:

**GLOBAL PASSENGER DRONES MARKET**

The global passenger drones market is expected to reach USD 1,085.01 million by 2025.

**By Region, 2018**

- NORTH AMERICA
- EUROPE
- ASIA-PACIFIC
- REST OF THE WORLD

**DRIVERS:**
- Rapid technological advancements and decline in drone costs
- Growing urban population coupled with rising traffic congestion problems
- Rising participation of companies

**OPPORTUNITIES:**
- Focus on reducing vehicular pollution

**KEY PLAYERS:**
- AeroMobil
- Airbus S.A.S
- Boeing
- CertiVactor
- EHang

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