

# **Aircraft and Marine Turbochargers Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Platform (Aircraft, Marine, Unmanned Aerial Vehicle (UAV)), By Component (Compressor, Turbine, Shaft), By Technology (Single Turbo, Twin Turbo, Electro-Assist Turbo), By Region & Competition, 2020-2030F**

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## **Abstracts**

The Global Aircraft and Marine Turbochargers Market was valued at USD 297.10 million in 2024 and is expected to reach USD 356.59 million by 2030 with a CAGR of 3.15% during the forecast period. The global Aircraft and Marine Turbochargers Market is experiencing significant growth due to increasing demand for fuel-efficient engines, enhanced performance, and reduced environmental emissions. Turbochargers play a critical role in improving engine power by compressing air for better combustion, leading to improved fuel economy and reduced operational costs. Key market drivers include rising air and marine traffic, stringent emission regulations, and advancements in turbocharging technologies, such as lightweight materials and advanced designs. The market is also witnessing innovations in electric turbochargers, catering to hybrid and sustainable energy systems, further expanding opportunities. India's substantial investment in airport infrastructure, totaling USD 12 billion by 2025, is set to drive the growth of its aviation sector. With the aim of expanding the number of airports from 148 to 220 and improving regional connectivity, these developments will include new airports, enhanced regulatory bodies, air traffic control upgrades, and the establishment of additional flying schools. These infrastructure advancements will further fuel market growth by supporting the increasing market demand.

## **Market Drivers**

## Rising Demand for Fuel Efficiency and Engine Optimization

Fuel efficiency is a critical concern in the aviation and marine industries due to high fuel costs and environmental impacts. Turbochargers enhance engine efficiency by compressing air to enable better fuel combustion, leading to improved power output without increasing fuel consumption. This optimization is essential for both aircraft and marine vessels, where operational costs are heavily influenced by fuel usage. In February 2024, the commercial aviation fleet is projected to grow by 28% over the next 10 years, expanding from 28,400 aircraft today to 36,400 by 2034, according to a recent study report. This growth is primarily driven by the resurgence of air travel globally, as demand for both domestic and international flights continue to rise. As airlines expand their fleets and introduce more fuel-efficient aircraft, the need for advanced turbocharging technologies to enhance engine performance, improve fuel efficiency, and reduce emissions will drive the Aircraft and Marine Turbochargers Market. This expansion will fuel the demand for high-performance turbochargers, particularly in narrowbody aircraft, contributing to the overall market growth.

In aviation, airlines are striving to reduce fuel consumption to stay competitive and comply with carbon emission reduction targets. Similarly, the shipping industry is under pressure to adopt energy-efficient solutions as fuel accounts for a significant portion of operational expenses. Turbocharged engines offer a solution by delivering higher efficiency and performance, making them increasingly popular across both sectors.

## Stringent Environmental Regulations and Emission Standards

Governments and regulatory bodies worldwide are enforcing stringent emission standards to combat climate change and reduce environmental pollution. For instance, the International Maritime Organization (IMO) has set regulations to reduce sulfur content in marine fuels, while aviation bodies have established carbon emission reduction goals. These regulations are driving the adoption of advanced turbocharging technologies, which improve combustion efficiency and lower harmful emissions.

Turbochargers allow engines to meet emission standards by ensuring cleaner and more complete combustion of fuel. This technology not only helps reduce nitrogen oxide (NOx) and carbon dioxide (CO<sub>2</sub>) emissions but also supports compliance with environmental mandates. As emission regulations become more stringent, the demand for high-performance turbochargers is expected to rise significantly.

## Advancements in Turbocharger Technology

Technological advancements are revolutionizing turbocharger designs, making them more efficient, lightweight, and durable. Innovations such as electric turbochargers, variable geometry turbochargers (VGTs), and twin-scroll turbochargers are gaining traction in both the aircraft and marine sectors. These technologies improve engine responsiveness, reduce lag, and enhance overall performance.

Electric turbochargers, for example, are increasingly being adopted in hybrid engines for their ability to deliver consistent power without depending on exhaust gases. Similarly, advancements in materials, such as heat-resistant alloys and ceramic coatings, are extending the lifespan of turbochargers and enabling them to withstand extreme operating conditions. These innovations are fueling market growth by offering enhanced reliability and performance.

## Key Market Challenges

### High Initial Costs and Maintenance Requirements

One of the significant challenges in the Aircraft and Marine Turbochargers Market is the high initial cost associated with turbocharger systems. Turbochargers are precision-engineered components that require advanced materials, intricate designs, and cutting-edge technology, making them expensive to manufacture and install. For small-scale operators and budget-conscious stakeholders, these costs can be a significant barrier to adoption.

In addition, the maintenance and repair of turbochargers can be complex and costly. Turbochargers operate in extreme conditions, often involving high temperatures and pressures. This makes them prone to wear and tear, necessitating regular inspection, repair, and, in some cases, complete replacement. The downtime associated with turbocharger maintenance can also impact operational efficiency, especially for airlines and shipping companies, where minimizing disruptions is crucial.

### Technological Complexity and Integration Challenges

Turbocharger systems are becoming increasingly sophisticated as manufacturers incorporate advanced features such as variable geometry, electric assistance, and lightweight materials. While these innovations enhance performance and efficiency, they also introduce technological complexity that poses challenges for integration,

operation, and maintenance.

For aircraft and marine vessels, integrating advanced turbochargers into existing engine systems often requires significant modifications, which can be time-consuming and expensive. Compatibility issues may arise, particularly when upgrading older engines, leading to additional engineering and design costs. Furthermore, operators and technicians need specialized training to understand and manage these advanced systems, creating a demand for skilled labor that may not always be readily available.

## Key Market Trends

### Integration of Variable Geometry Turbochargers (VGTs)

Variable geometry turbochargers (VGTs) are another trend gaining traction in both the aircraft and marine turbochargers market. VGTs are designed with adjustable vanes that alter the flow of exhaust gases depending on engine speed and load, which enables more precise control over turbine speed and boost pressure.

This flexibility allows VGTs to optimize engine performance across a wide range of conditions. In aircraft, VGTs improve thrust performance during takeoff and cruising, while in marine engines, they offer enhanced fuel efficiency and reduced emissions. The ability to dynamically adjust the turbocharger's behavior is particularly valuable in modern, highly sophisticated engines where fuel efficiency and emissions control are key performance metrics.

The integration of VGT technology is driven by the increasing need for better fuel economy, higher power output, and compliance with stricter emissions regulations. VGTs enable turbochargers to provide optimal performance across a range of operating conditions, making them an attractive choice for aircraft manufacturers and marine engine designers seeking advanced turbocharging solutions.

### Focus on Lightweight and Compact Designs

As aircraft and marine operators seek to optimize fuel efficiency and reduce operational costs, there is an increasing focus on lightweight and compact turbocharger designs. In the aerospace industry, weight reduction is critical to improving fuel efficiency, as every kilogram shaved off an aircraft contributes directly to lower fuel consumption and reduced operating costs.

Turbocharger manufacturers are responding to this demand by utilizing advanced materials such as titanium and high-strength aluminum alloys, which provide durability while minimizing weight. Additionally, the integration of compact turbocharging solutions is becoming more common in marine applications, where space constraints are a significant consideration. Compact turbochargers allow for more efficient use of engine space, enhancing the overall design of marine vessels and enabling them to achieve better fuel economy without compromising performance.

This trend towards lightweight and compact designs is pushing innovation in material science and engineering to meet the ever-increasing demand for high-performance turbochargers that contribute to both energy savings and operational efficiency.

### Sustainability and Regulatory Compliance Driving Innovation

Sustainability is one of the most prominent driving forces in the global Aircraft and Marine Turbochargers Market. With increasing environmental awareness and stricter emission regulations, both the aviation and marine industries are under significant pressure to reduce their environmental impact. This is prompting manufacturers to innovate by developing turbochargers that not only improve engine efficiency but also help reduce harmful emissions such as carbon dioxide (CO<sub>2</sub>), nitrogen oxide (NO<sub>x</sub>), and sulfur oxides (SO<sub>x</sub>).

Regulatory bodies such as the International Maritime Organization (IMO) and the International Civil Aviation Organization (ICAO) are setting stringent emission reduction targets, further incentivizing the adoption of advanced turbocharging technologies. Turbochargers are key to achieving these targets because they enhance the efficiency of combustion, enabling engines to burn fuel more completely and reduce harmful emissions.

### Segmental Insights

#### Platform Insights

The aircraft segment was the dominating segment in the global Aircraft and Marine Turbochargers Market, driven by the increasing demand for fuel efficiency, higher engine performance, and regulatory compliance. Aircraft manufacturers are adopting advanced turbocharging technologies to enhance fuel economy, reduce emissions, and improve overall engine efficiency. The rise in air travel and the need for more sustainable aviation solutions further boost the demand for turbochargers in the

aerospace sector. With continuous innovations such as electric and variable geometry turbochargers, the aircraft segment remains the largest contributor to market growth, emphasizing the importance of performance and efficiency in aviation.

## Regional Insights

North America was the dominating region in the global Aircraft and Marine Turbochargers Market, driven by strong demand from both the aviation and maritime sectors. The region benefits from advanced technological innovations, a robust aerospace industry, and stringent environmental regulations that encourage the adoption of high-performance, fuel-efficient turbochargers. Major manufacturers and suppliers, particularly in the United States, contribute to the market's growth by developing cutting-edge turbocharging solutions. Additionally, increasing air and sea traffic, along with a focus on reducing emissions, further fuels the demand for efficient turbocharging technologies in North America. This positions the region as a key market leader.

## Key Market Players

ABB Ltd

Rolls-Royce plc

Hartzell Engine Tech LLC.

PBS Group, a. s.

Mitsubishi Heavy Industries, Ltd.

Main Turbo Systems, Inc.

Cummins Inc.

Kawasaki Heavy Industries, Ltd.

Textron Aviation Inc.

Garrett Motion Inc.

## Report Scope:

In this report, the global Aircraft and Marine Turbochargers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Aircraft and Marine Turbochargers Market, By Platform:

Aircraft

Marine

Unmanned Aerial Vehicle (UAV)

### Aircraft and Marine Turbochargers Market, By Component:

Compressor

Turbine

Shaft

### Aircraft and Marine Turbochargers Market, By Technology:

Single Turbo

Twin Turbo

Electro-Assist Turbo

### Aircraft and Marine Turbochargers 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 Aircraft and Marine Turbochargers Market.

## Available Customizations:

Global Aircraft and Marine Turbochargers 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 AIRCRAFT AND MARINE TURBOCHARGERS MARKET OUTLOOK

- 4.1. Market Size & Forecast
  - 4.1.1. By Value
- 4.2. Market Share & Forecast
  - 4.2.1. By Platform Market Share Analysis (Aircraft, Marine, Unmanned Aerial Vehicle (UAV))
  - 4.2.2. By Component Market Share Analysis (Compressor, Turbine, Shaft)
  - 4.2.3. By Technology Market Share Analysis (Single Turbo, Twin Turbo, Electro-Assist Turbo)
  - 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 Aircraft and Marine Turbochargers Market Mapping & Opportunity Assessment
  - 4.3.1. By Platform Market Mapping & Opportunity Assessment
  - 4.3.2. By Component Market Mapping & Opportunity Assessment
  - 4.3.3. By Technology Market Mapping & Opportunity Assessment
  - 4.3.4. By Regional Market Mapping & Opportunity Assessment

## **5. NORTH AMERICA AIRCRAFT AND MARINE TURBOCHARGERS MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Platform Market Share Analysis
  - 5.2.2. By Component Market Share Analysis
  - 5.2.3. By Technology Market Share Analysis
  - 5.2.4. By Country Market Share Analysis
    - 5.2.4.1. United States Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
        - 5.2.4.1.2.2. By Component Market Share Analysis
        - 5.2.4.1.2.3. By Technology Market Share Analysis
    - 5.2.4.2. Canada Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
        - 5.2.4.2.2.2. By Component Market Share Analysis
        - 5.2.4.2.2.3. By Technology Market Share Analysis
    - 5.2.4.3. Mexico Aircraft and Marine Turbochargers 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 Platform Market Share Analysis

##### 5.2.4.3.2.2. By Component Market Share Analysis

##### 5.2.4.3.2.3. By Technology Market Share Analysis

## **6. EUROPE & CIS AIRCRAFT AND MARINE TURBOCHARGERS MARKET OUTLOOK**

### 6.1. Market Size & Forecast

#### 6.1.1. By Value

### 6.2. Market Share & Forecast

#### 6.2.1. By Platform Market Share Analysis

#### 6.2.2. By Component Market Share Analysis

#### 6.2.3. By Technology Market Share Analysis

#### 6.2.4. By Country Market Share Analysis

##### 6.2.4.1. France Aircraft and Marine Turbochargers 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 Platform Market Share Analysis

###### 6.2.4.1.2.2. By Component Market Share Analysis

###### 6.2.4.1.2.3. By Technology Market Share Analysis

##### 6.2.4.2. Germany Aircraft and Marine Turbochargers 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 Platform Market Share Analysis

###### 6.2.4.2.2.2. By Component Market Share Analysis

###### 6.2.4.2.2.3. By Technology Market Share Analysis

##### 6.2.4.3. Spain Aircraft and Marine Turbochargers 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 Platform Market Share Analysis

###### 6.2.4.3.2.2. By Component Market Share Analysis

###### 6.2.4.3.2.3. By Technology Market Share Analysis

##### 6.2.4.4. Italy Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
  - 6.2.4.4.2.2. By Component Market Share Analysis
  - 6.2.4.4.2.3. By Technology Market Share Analysis
- 6.2.4.5. United Kingdom Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
    - 6.2.4.5.2.2. By Component Market Share Analysis
    - 6.2.4.5.2.3. By Technology Market Share Analysis

## **7. ASIA-PACIFIC AIRCRAFT AND MARINE TURBOCHARGERS MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Platform Market Share Analysis
  - 7.2.2. By Component Market Share Analysis
  - 7.2.3. By Technology Market Share Analysis
  - 7.2.4. By Country Market Share Analysis
    - 7.2.4.1. China Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
        - 7.2.4.1.2.2. By Component Market Share Analysis
        - 7.2.4.1.2.3. By Technology Market Share Analysis
    - 7.2.4.2. Japan Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
        - 7.2.4.2.2.2. By Component Market Share Analysis
        - 7.2.4.2.2.3. By Technology Market Share Analysis
    - 7.2.4.3. India Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
  - 7.2.4.3.2.2. By Component Market Share Analysis
  - 7.2.4.3.2.3. By Technology Market Share Analysis
- 7.2.4.4. Vietnam Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
    - 7.2.4.4.2.2. By Component Market Share Analysis
    - 7.2.4.4.2.3. By Technology Market Share Analysis
- 7.2.4.5. South Korea Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
    - 7.2.4.5.2.2. By Component Market Share Analysis
    - 7.2.4.5.2.3. By Technology Market Share Analysis
- 7.2.4.6. Australia Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
    - 7.2.4.6.2.2. By Component Market Share Analysis
    - 7.2.4.6.2.3. By Technology Market Share Analysis
- 7.2.4.7. Thailand Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
    - 7.2.4.7.2.2. By Component Market Share Analysis
    - 7.2.4.7.2.3. By Technology Market Share Analysis

## **8. MIDDLE EAST & AFRICA AIRCRAFT AND MARINE TURBOCHARGERS MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast

- 8.2.1. By Platform Market Share Analysis
- 8.2.2. By Component Market Share Analysis
- 8.2.3. By Technology Market Share Analysis
- 8.2.4. By Country Market Share Analysis
  - 8.2.4.1. South Africa Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
      - 8.2.4.1.2.2. By Component Market Share Analysis
      - 8.2.4.1.2.3. By Technology Market Share Analysis
  - 8.2.4.2. Saudi Arabia Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
      - 8.2.4.2.2.2. By Component Market Share Analysis
      - 8.2.4.2.2.3. By Technology Market Share Analysis
  - 8.2.4.3. UAE Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
      - 8.2.4.3.2.2. By Component Market Share Analysis
      - 8.2.4.3.2.3. By Technology Market Share Analysis
  - 8.2.4.4. Turkey Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
      - 8.2.4.4.2.2. By Component Market Share Analysis
      - 8.2.4.4.2.3. By Technology Market Share Analysis

## **9. SOUTH AMERICA AIRCRAFT AND MARINE TURBOCHARGERS MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast

- 9.2.1. By Platform Market Share Analysis
- 9.2.2. By Component Market Share Analysis
- 9.2.3. By Technology Market Share Analysis
- 9.2.4. By Country Market Share Analysis
  - 9.2.4.1. Brazil Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
      - 9.2.4.1.2.2. By Component Market Share Analysis
      - 9.2.4.1.2.3. By Technology Market Share Analysis
  - 9.2.4.2. Argentina Aircraft and Marine Turbochargers 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 Platform Market Share Analysis
      - 9.2.4.2.2.2. By Component Market Share Analysis
      - 9.2.4.2.2.3. By Technology Market Share Analysis

## **10. MARKET DYNAMICS**

- 10.1. Drivers
- 10.2. Challenges

## **11. IMPACT OF COVID-19 ON GLOBAL AIRCRAFT AND MARINE TURBOCHARGERS 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. ABB Ltd
    - 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. Rolls-Royce plc
  - 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. Hartzell Engine Tech LLC.
  - 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. PBS Group, a. s.
  - 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. Mitsubishi Heavy Industries, Ltd.
  - 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. Main Turbo Systems, Inc.
  - 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. Cummins Inc.
  - 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. Kawasaki Heavy Industries, Ltd.
  - 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. Textron Aviation Inc.
  - 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. Garrett Motion Inc.
  - 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 Component
- 14.3. Target Platform

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

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