

North America Aircraft Ignition System Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Electric Ignition and Magneto Ignition), Component (Ignition Leads, Igniters, Spark Plugs, Exciters, and Others), and Engine Type (Turboprop Engine, Turbofan Engine, Turbojet Engine, and Piston Engine)

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Abstracts

The North America aircraft ignition system market is expected to grow from US\$ 134.21 million in 2022 to US\$ 176.89 million by 2028. It is estimated to grow at a CAGR of 4.7% from 2022 to 2028.

Growing Adoption of Fully Authority Digital Engine Control (FADEC) systems is Fueling the North America Aircraft Ignition System Market

The FADEC system is used in an aircraft to decrease pilot's workload by providing details on mechanical problems, as well as portrays engine monitoring capability. This autonomous, self-monitoring, self-operating, and redundant system enables the pilot to monitor fuel economy. It also helps in diagnostic processes that require constant monitoring of crucial processes in an aircraft powerplant, increasing fuel efficiency, and reducing maintenance expenses. The FADEC system is developed to support both commercial and military aircraft. It is used in majority of aircraft engines, across different popular narrow-body and wide-body aircraft models. It is a safety-critical system wherein adequate redundancy is configured to provide necessary reliability and availability. As the demand for FADEC systems is increasing, several players are creating alliances. As FADEC system improves fuel efficiency, obtains redundancy in case of failure, provides care-free engine handling, and is used for better systems

integration, its adoption in the market is increasing. Hence, all the above factors are propelling the adoption of FADEC systems, which will lead to the North America aircraft ignition system market growth during the forecast period.

North America Aircraft Ignition System Market Overview

The North America aircraft ignition system market is further segmented into the US, Canada, and Mexico. The demand for aircraft is high in the region due to the actively proliferating commercial, general, and defense aviation industries in the major countries. Boeing delivered 157 and 340 commercial aircraft in 2020 and 2021, respectively. With a surge in the manufacturing of aircraft, the demand for aircraft engines is also increasing, thereby propelling the need for engine components, such as ignition systems, cylinders, vacuum pumps, carburetors, and alternators. North America is home to several engine manufacturers involved in the manufacturing of turboprop, turbofan, turbojet, and piston engines. A few of the aircraft engine manufacturers headquartered in the region include General Electric Company, Honeywell International Inc., Williams International, and Pratt & Whitney. These companies are entering into several contracts for supplying engines to commercial and military aircraft manufacturers. For example, in November 2021, General Electric Company received a contract worth US\$ 1.57 billion from the US Air Force to supply 29 USAF F-15EX jet engines, with the expected commencement of deliveries from 2023 onward. Additionally, per the contract, the engine manufacturer would supply 329 additional engines to the air force in the final delivery phase in 2031. Thus, a rise in engine manufacturing is bolstering the demand for ignition systems in North America. Many aircraft ignition system manufacturers have a notable presence in North America. A few of these include Champion Aerospace Inc., Kelly Aerospace Inc, Unison LLC, Tempest Aero Group, and FADEC International. These companies are adopting various organic and inorganic growth strategies to expand their geographic presence, strengthen their distribution channel, and enhance their product portfolios. Unison, LLC announced the launch of its new igniter plug in June 2019. The new igniter enabled by a patented technology is designed to improve spark life under extreme environmental conditions. In March 2020, Champion Aerospace appointed Airport Supply Ltd as its authorized distributor in Europe. The partnership includes the distribution of slick magnetos, oil filters, harnesses, spark plugs, and spare parts, along with the turbine range, including exciter boxes, igniter plugs, and ignition leads.

North America Aircraft Ignition System Market Revenue and Forecast to 2028 (US\$ Million)

North America Aircraft Ignition System Market Segmentation

The North America aircraft ignition system market is segmented based on component, type, engine type, and country.

Based on component, the North America aircraft ignition system market is segmented into ignition leads, igniters, spark plugs, exciters, and others. The spark plugs segment held the largest market share in 2022.

Based on type, the North America aircraft ignition system market is bifurcated into electric ignition and magneto ignition. The electric ignition segment held a larger market share in 2022.

Based on engine type, the North America aircraft ignition system market is segmented into turboprop engine, turbofan engine, turbojet engine, and piston engine. The turbofan engine segment held the largest market share in 2022.

Based on country, the North America aircraft ignition system market has been categorized into the US, Canada, and Mexico. Our regional analysis states that the US dominated the market in 2022.

Champion Aerospace Inc, Continental Aerospace Technologies Inc, Electroair Acquisition Corp, FADEC International LLC, Kelly Aerospace Inc, PBS Group AS, Sonex LLC, Surefly Partners Ltd, Tempest Aero Group LLC, and Unison Industries LLC are the leading companies operating in the North America aircraft ignition system market.

Contents

1. INTRODUCTION

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation

2. KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. NORTH AMERICA AIRCRAFT IGNITION SYSTEM MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Buyers
 - 4.2.2 Bargaining Power of Suppliers
 - 4.2.3 Threat to New Entrants
 - 4.2.4 Threat to Substitutes
 - 4.2.5 Competitive Rivalry
- 4.3 Ecosystem Analysis
- 4.4 Expert Opinion

5. NORTH AMERICA AIRCRAFT IGNITION SYSTEM MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Growing Aircraft Production
 - 5.1.2 Growing Adoption of Fully Authority Digital Engine Control (FADEC) systems
- 5.2 Market Restraints
 - 5.2.1 Discontinuation of Quadjet Production
- 5.3 Market Opportunities
 - 5.3.1 Future Engine Orders to Propel Ignition System Demand

5.4 Future Trends

5.4.1 Product Development and Expansion of Distribution Channels

5.5 Impact Analysis of Drivers and Restraints

6. AIRCRAFT IGNITION SYSTEM MARKET – NORTH AMERICA ANALYSIS

6.1 North America Aircraft Ignition System Market Overview

6.2 North America Aircraft Ignition System Market Forecast and Analysis

7. NORTH AMERICA AIRCRAFT IGNITION SYSTEM MARKET ANALYSIS – BY COMPONENT

7.1 Overview

7.2 North America Aircraft Ignition System Market, by Component (2021 & 2028)

7.3 Ignition Leads

7.3.1 Overview

7.3.2 Ignition Leads: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

7.4 Igniters

7.4.1 Overview

7.4.2 Igniters: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

7.5 Spark Plugs

7.5.1 Overview

7.5.2 Spark Plugs: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

7.6 Exciters

7.6.1 Overview

7.6.2 Exciters: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

7.7 Others

7.7.1 Overview

7.7.2 Others: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

8. NORTH AMERICA AIRCRAFT IGNITION SYSTEM MARKET ANALYSIS – BY TYPE

8.1 Overview

8.2 North America Aircraft Ignition System Market, by Type (2021 & 2028)

8.3 Electric Ignition

8.3.1 Overview

8.3.2 Electric Ignition: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

8.4 Magneto Ignition

8.4.1 Overview

8.4.2 Magneto Ignition: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

9. NORTH AMERICA AIRCRAFT IGNITION SYSTEM MARKET ANALYSIS – BY ENGINE TYPE

9.1 Overview

9.2 North America Aircraft Ignition System Market, by Engine Type (2021 & 2028)

9.3 Turboprop Engine

9.3.1 Overview

9.3.2 Turboprop Engine: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

9.4 Turbofan Engine

9.4.1 Overview

9.4.2 Turbofan Engine: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

9.5 Turbojet Engine

9.5.1 Overview

9.5.2 Turbojet Engine: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

9.6 Piston Engine

9.6.1 Overview

9.6.2 Piston Engine: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

10. NORTH AMERICA AIRCRAFT IGNITION SYSTEM MARKET – COUNTRY ANALYSIS

10.1 Overview

10.1.1 North America: Aircraft Ignition System Market, by Key Country

10.1.1.1 US: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

- 10.1.1.1.1 US: Aircraft Ignition System Market, by Type
- 10.1.1.1.2 US: Aircraft Ignition System Market, by Component
- 10.1.1.1.3 US: Aircraft Ignition System Market, by Engine Type
- 10.1.1.2 Canada: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.2.1 Canada: Aircraft Ignition System Market, by Type
- 10.1.1.2.2 Canada: Aircraft Ignition System Market, by Component
- 10.1.1.2.3 Canada: Aircraft Ignition System Market, by Engine Type
- 10.1.1.3 Mexico: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.3.1 Mexico: Aircraft Ignition System Market, by Type
- 10.1.1.3.2 Mexico: Aircraft Ignition System Market, by Component
- 10.1.1.3.3 Mexico: Aircraft Ignition System Market, by Engine Type

11. INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 Market Initiative
- 11.3 New Product Development

12. COMPANY PROFILES

- 12.1 Sonex LLC
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services
 - 12.1.4 Financial Overview
 - 12.1.5 SWOT Analysis
 - 12.1.6 Key Developments
- 12.2 Champion Aerospace Inc
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 Electroair Acquisition Corp
 - 12.3.1 Key Facts
 - 12.3.2 Business Description

- 12.3.3 Products and Services
- 12.3.4 Financial Overview
- 12.3.5 SWOT Analysis
- 12.3.6 Key Developments
- 12.4 PBS Group AS
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Tempest Aero Group LLC
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Surefly Partners Ltd
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Unison Industries LLC
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 FADEC International LLC
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments

12.9 Kelly Aerospace Inc

12.9.1 Key Facts

12.9.2 Business Description

12.9.3 Products and Services

12.9.4 Financial Overview

12.9.5 SWOT Analysis

12.9.6 Key Developments

12.10 Continental Aerospace Technologies Inc

12.10.1 Key Facts

12.10.2 Business Description

12.10.3 Products and Services

12.10.4 Financial Overview

12.10.5 SWOT Analysis

12.10.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

13.2 Word Index

List Of Tables

LIST OF TABLES

Table 1. North America Aircraft Ignition System Market, Revenue and Forecast, 2019–2028 (US\$ Million)

Table 2. US: Aircraft Ignition System Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 3. US: Aircraft Ignition System Market, by Component – Revenue and Forecast to 2028 (US\$ Million)

Table 4. US: Aircraft Ignition System Market, by Engine Type – Revenue and Forecast to 2028 (US\$ Million)

Table 5. Canada: Aircraft Ignition System Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 6. Canada: Aircraft Ignition System Market, by Component – Revenue and Forecast to 2028 (US\$ Million)

Table 7. Canada: Aircraft Ignition System Market, by Engine Type – Revenue and Forecast to 2028 (US\$ Million)

Table 8. Mexico: Aircraft Ignition System Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 9. Mexico: Aircraft Ignition System Market, by Component – Revenue and Forecast to 2028 (US\$ Million)

Table 10. Mexico: Aircraft Ignition System Market, by Engine Type – Revenue and Forecast to 2028 (US\$ Million)

Table 11. List of Abbreviation

List Of Figures

LIST OF FIGURES

- Figure 1. North America Aircraft Ignition System Market Segmentation
- Figure 2. North America Aircraft Ignition System Market Segmentation – Country
- Figure 3. North America Aircraft Ignition System Market Overview
- Figure 4. North America Aircraft Ignition System Market, by Component
- Figure 5. North America Aircraft Ignition System Market, by Country
- Figure 6. Porter's Five Forces Analysis
- Figure 7. North America Aircraft Ignition System Market: Ecosystem Analysis
- Figure 8. Expert Opinion
- Figure 9. North America Aircraft Ignition System Market: Impact Analysis of Drivers and Restraints
- Figure 10. North America Aircraft Ignition System Market, Forecast and Analysis (US\$ Million)
- Figure 11. North America Aircraft Ignition System Market Revenue Share, by Component (2021 & 2028)
- Figure 12. Ignition Leads: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 13. Igniters: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 14. Spark Plugs: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 15. Exciters: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 16. Others: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 17. North America Aircraft Ignition System Market Revenue Share, by Type (2021 & 2028)
- Figure 18. Electric Ignition: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 19. Magneto Ignition: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 20. North America Aircraft Ignition System Market Revenue Share, by Engine Type (2021 & 2028)
- Figure 21. Turboprop Engine: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 22. Turbofan Engine: North America Aircraft Ignition System Market – Revenue

and Forecast to 2028 (US\$ Million)

Figure 23. Turbojet Engine: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 24. Piston Engine: North America Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 25. North America: Aircraft Ignition System Market, by Key Country – Revenue (2021) (US\$ 'Million)

Figure 26. North America: Aircraft Ignition System Market Revenue Share, by Key Country (2021 & 2028)

Figure 27. US: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 28. Canada: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 29. Mexico: Aircraft Ignition System Market – Revenue and Forecast to 2028 (US\$ Million)

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