

# Global Hybrid Electric Aircraft Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Hybrid Electric Aircraft market size is expected to reach \$ 63081 million by 2032, rising at a market growth of 18.4% CAGR during the forecast period (2026-2032).

Hybrid electric aircraft are a core transitional type of aircraft in the aviation industry's electrification transformation. By integrating traditional aviation fuel power systems with electric power systems, a fuel-electric collaborative power architecture is formed. Relying on the power coupling system, fuel power and electric power can be output individually or in combination. The core objectives are to reduce fuel consumption, reduce greenhouse gas and noise emissions, and at the same time solve the pain points of insufficient energy storage density and short range of pure electric aircraft, taking into account the range, power reliability and airworthiness safety of aviation flights.

In 2025, hybrid electric aircraft will still be in the research and development, flight testing, and pre-certification/certification stages, with publicly available timelines generally pointing to 2027–2030 as the window for large-scale delivery.

Upstream of hybrid electric aircraft mainly includes aerospace-grade composites and aluminum alloys, core aero-engine components, magnetic materials for electric motors and power electronics, lithium batteries and high-voltage electrical components, as well as aerospace software and control chips. These elements directly influence system weight, energy efficiency, safety redundancy and overall cost. Downstream applications represent the core demand, focusing on regional and short-haul aircraft, commuter and regional aviation, general aviation and business aircraft, trainer aircraft, and emerging urban air mobility pilots. Airlines, regional operators, general aviation service providers and government aviation agencies are the key end users. Downstream customers

emphasize fuel savings, balance between range and payload, operating cost reduction, noise mitigation and feasibility of airworthiness certification, making hybrid solutions a practical transition pathway before full electric flight becomes viable.

Industry development trends feature parallel progress of series and parallel architectures, with increasing emphasis on modular powertrains, high-voltage electrification, digital energy management and integration with sustainable aviation fuels. Key drivers include rising decarbonization pressure in aviation, fuel cost volatility, recovery of regional air travel demand and long-term government support for low-carbon aviation technologies. Major constraints include high system complexity, challenges in integration and safety validation, battery energy density limiting range improvement, lengthy certification cycles and substantial upfront investment in research and manufacturing.

Gross margins for hybrid electric aircraft are generally at a low to medium level, typically ranging from 15% to 30%, reflecting high R&D intensity, limited production scale and strong customization. As technologies mature, production volumes increase and recurring revenues from maintenance, upgrades and digital services grow, there is potential for gradual margin improvement over the long term.

This report studies the global Hybrid Electric Aircraft production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hybrid Electric Aircraft and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hybrid Electric Aircraft that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Hybrid Electric Aircraft total production and demand, 2021-2032, (Units)

Global Hybrid Electric Aircraft total production value, 2021-2032, (USD Million)

Global Hybrid Electric Aircraft production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hybrid Electric Aircraft consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hybrid Electric Aircraft domestic production, consumption, key domestic manufacturers and share

Global Hybrid Electric Aircraft production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (Units)

Global Hybrid Electric Aircraft production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Hybrid Electric Aircraft production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hybrid Electric Aircraft market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Airbus, Daher, Joby Aviation, Electra, Heart Aerospace, Aura Aero, VoltAero, Ampaire, Horizon Aircraft, Elroy Air, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hybrid Electric Aircraft market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hybrid Electric Aircraft Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Hybrid Electric Aircraft Market, Segmentation by Type:

Series

Parallel

Series-Parallel

#### Global Hybrid Electric Aircraft Market, Segmentation by Electric Power Percentage:

Below 20%

20%-50%

Above 50%

#### Global Hybrid Electric Aircraft Market, Segmentation by Maximum Takeoff Weight (MTOW):

Under 1 ton

1-5 tons

5-20 tons

Over 20 tons

#### Global Hybrid Electric Aircraft Market, Segmentation by Application:

General Aviation

Special Purpose Aviation

Air Freight

Aircraft Modification

Other

**Companies Profiled:**

Airbus

Daher

Joby Aviation

Electra

Heart Aerospace

Aura Aero

VoltAero

Ampaire

Horizon Aircraft

Elroy Air

Tecnam

XTI Aerospace

**Key Questions Answered:**

1. How big is the global Hybrid Electric Aircraft market?

2. What is the demand of the global Hybrid Electric Aircraft market?
3. What is the year over year growth of the global Hybrid Electric Aircraft market?
4. What is the production and production value of the global Hybrid Electric Aircraft market?
5. Who are the key producers in the global Hybrid Electric Aircraft market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Induction Heating Machine Introduction
- 1.2 World Induction Heating Machine Supply & Forecast
  - 1.2.1 World Induction Heating Machine Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Induction Heating Machine Production (2021-2032)
  - 1.2.3 World Induction Heating Machine Pricing Trends (2021-2032)
- 1.3 World Induction Heating Machine Production by Region (Based on Production Site)
  - 1.3.1 World Induction Heating Machine Production Value by Region (2021-2032)
  - 1.3.2 World Induction Heating Machine Production by Region (2021-2032)
  - 1.3.3 World Induction Heating Machine Average Price by Region (2021-2032)
  - 1.3.4 North America Induction Heating Machine Production (2021-2032)
  - 1.3.5 Europe Induction Heating Machine Production (2021-2032)
  - 1.3.6 China Induction Heating Machine Production (2021-2032)
  - 1.3.7 Japan Induction Heating Machine Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Induction Heating Machine Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Induction Heating Machine Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Induction Heating Machine Demand (2021-2032)
- 2.2 World Induction Heating Machine Consumption by Region
  - 2.2.1 World Induction Heating Machine Consumption by Region (2021-2026)
  - 2.2.2 World Induction Heating Machine Consumption Forecast by Region (2027-2032)
- 2.3 United States Induction Heating Machine Consumption (2021-2032)
- 2.4 China Induction Heating Machine Consumption (2021-2032)
- 2.5 Europe Induction Heating Machine Consumption (2021-2032)
- 2.6 Japan Induction Heating Machine Consumption (2021-2032)
- 2.7 South Korea Induction Heating Machine Consumption (2021-2032)
- 2.8 ASEAN Induction Heating Machine Consumption (2021-2032)
- 2.9 India Induction Heating Machine Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Induction Heating Machine Production Value by Manufacturer (2021-2026)

- 3.2 World Induction Heating Machine Production by Manufacturer (2021-2026)
- 3.3 World Induction Heating Machine Average Price by Manufacturer (2021-2026)
- 3.4 Induction Heating Machine Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Induction Heating Machine Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Induction Heating Machine in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Induction Heating Machine in 2025
- 3.6 Induction Heating Machine Market: Overall Company Footprint Analysis
  - 3.6.1 Induction Heating Machine Market: Region Footprint
  - 3.6.2 Induction Heating Machine Market: Company Product Type Footprint
  - 3.6.3 Induction Heating Machine Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Induction Heating Machine Production Value Comparison
  - 4.1.1 United States VS China: Induction Heating Machine Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Induction Heating Machine Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Induction Heating Machine Production Comparison
  - 4.2.1 United States VS China: Induction Heating Machine Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Induction Heating Machine Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Induction Heating Machine Consumption Comparison
  - 4.3.1 United States VS China: Induction Heating Machine Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Induction Heating Machine Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Induction Heating Machine Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Induction Heating Machine Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Induction Heating Machine Production Value (2021-2026)

4.4.3 United States Based Manufacturers Induction Heating Machine Production (2021-2026)

4.5 China Based Induction Heating Machine Manufacturers and Market Share

4.5.1 China Based Induction Heating Machine Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Induction Heating Machine Production Value (2021-2026)

4.5.3 China Based Manufacturers Induction Heating Machine Production (2021-2026)

4.6 Rest of World Based Induction Heating Machine Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Induction Heating Machine Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Induction Heating Machine Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Induction Heating Machine Production (2021-2026)

## **5 MARKET ANALYSIS BY FREQUENCY**

5.1 World Induction Heating Machine Market Size Overview by Frequency: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Frequency

5.2.1 50/60Hz

5.2.2 1-10kHz

5.2.3 10-100kHz

5.2.4 100kHz-1MHz

5.2.5 Above 1MHz

5.3 Market Segment by Frequency

5.3.1 World Induction Heating Machine Production by Frequency (2021-2032)

5.3.2 World Induction Heating Machine Production Value by Frequency (2021-2032)

5.3.3 World Induction Heating Machine Average Price by Frequency (2021-2032)

## **6 MARKET ANALYSIS BY POWER**

6.1 World Induction Heating Machine Market Size Overview by Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power

- 6.2.1 Below 15kW
- 6.2.2 15-100kW
- 6.2.3 100-500kW
- 6.2.4 Above 500kW

### 6.3 Market Segment by Power

- 6.3.1 World Induction Heating Machine Production by Power (2021-2032)
- 6.3.2 World Induction Heating Machine Production Value by Power (2021-2032)
- 6.3.3 World Induction Heating Machine Average Price by Power (2021-2032)

## 7 MARKET ANALYSIS BY COOLING METHOD

### 7.1 World Induction Heating Machine Market Size Overview by Cooling Method: 2021 VS 2025 VS 2032

### 7.2 Segment Introduction by Cooling Method

- 7.2.1 Air-Cooled Type
- 7.2.2 Water-Cooled Type
- 7.2.3 Oil-Cooled Type
- 7.2.4 Combined Cooling

### 7.3 Market Segment by Cooling Method

- 7.3.1 World Induction Heating Machine Production by Cooling Method (2021-2032)
- 7.3.2 World Induction Heating Machine Production Value by Cooling Method (2021-2032)
- 7.3.3 World Induction Heating Machine Average Price by Cooling Method (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

### 8.1 World Induction Heating Machine Market Size Overview by Application: 2021 VS 2025 VS 2032

### 8.2 Segment Introduction by Application

- 8.2.1 Metal Hot Forming
- 8.2.2 Metal Heat Treatment
- 8.2.3 Mechanical Assembly
- 8.2.4 Brazing and Welding
- 8.2.5 Automotive Manufacturing and Parts
- 8.2.6 Other

### 8.3 Market Segment by Application

- 8.3.1 World Induction Heating Machine Production by Application (2021-2032)
- 8.3.2 World Induction Heating Machine Production Value by Application (2021-2032)
- 8.3.3 World Induction Heating Machine Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 Inductotherm Group

9.1.1 Inductotherm Group Details

9.1.2 Inductotherm Group Major Business

9.1.3 Inductotherm Group Induction Heating Machine Product and Services

9.1.4 Inductotherm Group Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Inductotherm Group Recent Developments/Updates

9.1.6 Inductotherm Group Competitive Strengths & Weaknesses

### 9.2 Fives

9.2.1 Fives Details

9.2.2 Fives Major Business

9.2.3 Fives Induction Heating Machine Product and Services

9.2.4 Fives Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Fives Recent Developments/Updates

9.2.6 Fives Competitive Strengths & Weaknesses

### 9.3 SMS group

9.3.1 SMS group Details

9.3.2 SMS group Major Business

9.3.3 SMS group Induction Heating Machine Product and Services

9.3.4 SMS group Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 SMS group Recent Developments/Updates

9.3.6 SMS group Competitive Strengths & Weaknesses

### 9.4 ENRX

9.4.1 ENRX Details

9.4.2 ENRX Major Business

9.4.3 ENRX Induction Heating Machine Product and Services

9.4.4 ENRX Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 ENRX Recent Developments/Updates

9.4.6 ENRX Competitive Strengths & Weaknesses

### 9.5 GH Induction

9.5.1 GH Induction Details

9.5.2 GH Induction Major Business

9.5.3 GH Induction Induction Heating Machine Product and Services

- 9.5.4 GH Induction Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 GH Induction Recent Developments/Updates
- 9.5.6 GH Induction Competitive Strengths & Weaknesses
- 9.6 Ajax TOCCO Magnethermic
  - 9.6.1 Ajax TOCCO Magnethermic Details
  - 9.6.2 Ajax TOCCO Magnethermic Major Business
  - 9.6.3 Ajax TOCCO Magnethermic Induction Heating Machine Product and Services
  - 9.6.4 Ajax TOCCO Magnethermic Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Ajax TOCCO Magnethermic Recent Developments/Updates
  - 9.6.6 Ajax TOCCO Magnethermic Competitive Strengths & Weaknesses
- 9.7 SAET EMMEDI
  - 9.7.1 SAET EMMEDI Details
  - 9.7.2 SAET EMMEDI Major Business
  - 9.7.3 SAET EMMEDI Induction Heating Machine Product and Services
  - 9.7.4 SAET EMMEDI Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 SAET EMMEDI Recent Developments/Updates
  - 9.7.6 SAET EMMEDI Competitive Strengths & Weaknesses
- 9.8 Pillar Induction
  - 9.8.1 Pillar Induction Details
  - 9.8.2 Pillar Induction Major Business
  - 9.8.3 Pillar Induction Induction Heating Machine Product and Services
  - 9.8.4 Pillar Induction Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Pillar Induction Recent Developments/Updates
  - 9.8.6 Pillar Induction Competitive Strengths & Weaknesses
- 9.9 Induction Technology
  - 9.9.1 Induction Technology Details
  - 9.9.2 Induction Technology Major Business
  - 9.9.3 Induction Technology Induction Heating Machine Product and Services
  - 9.9.4 Induction Technology Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Induction Technology Recent Developments/Updates
  - 9.9.6 Induction Technology Competitive Strengths & Weaknesses
- 9.10 UltraFlex Power Technologies
  - 9.10.1 UltraFlex Power Technologies Details
  - 9.10.2 UltraFlex Power Technologies Major Business

- 9.10.3 UltraFlex Power Technologies Induction Heating Machine Product and Services
- 9.10.4 UltraFlex Power Technologies Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 UltraFlex Power Technologies Recent Developments/Updates
- 9.10.6 UltraFlex Power Technologies Competitive Strengths & Weaknesses
- 9.11 Ambrell
  - 9.11.1 Ambrell Details
  - 9.11.2 Ambrell Major Business
  - 9.11.3 Ambrell Induction Heating Machine Product and Services
  - 9.11.4 Ambrell Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Ambrell Recent Developments/Updates
  - 9.11.6 Ambrell Competitive Strengths & Weaknesses
- 9.12 Taylor-Winfield Technologies
  - 9.12.1 Taylor-Winfield Technologies Details
  - 9.12.2 Taylor-Winfield Technologies Major Business
  - 9.12.3 Taylor-Winfield Technologies Induction Heating Machine Product and Services
  - 9.12.4 Taylor-Winfield Technologies Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Taylor-Winfield Technologies Recent Developments/Updates
  - 9.12.6 Taylor-Winfield Technologies Competitive Strengths & Weaknesses
- 9.13 Interpower Induction
  - 9.13.1 Interpower Induction Details
  - 9.13.2 Interpower Induction Major Business
  - 9.13.3 Interpower Induction Induction Heating Machine Product and Services
  - 9.13.4 Interpower Induction Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Interpower Induction Recent Developments/Updates
  - 9.13.6 Interpower Induction Competitive Strengths & Weaknesses
- 9.14 Dai-ichi High Frequency
  - 9.14.1 Dai-ichi High Frequency Details
  - 9.14.2 Dai-ichi High Frequency Major Business
  - 9.14.3 Dai-ichi High Frequency Induction Heating Machine Product and Services
  - 9.14.4 Dai-ichi High Frequency Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Dai-ichi High Frequency Recent Developments/Updates
  - 9.14.6 Dai-ichi High Frequency Competitive Strengths & Weaknesses
- 9.15 Dai-ichi Kiden
  - 9.15.1 Dai-ichi Kiden Details

- 9.15.2 Dai-ichi Kiden Major Business
- 9.15.3 Dai-ichi Kiden Induction Heating Machine Product and Services
- 9.15.4 Dai-ichi Kiden Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 Dai-ichi Kiden Recent Developments/Updates
- 9.15.6 Dai-ichi Kiden Competitive Strengths & Weaknesses
- 9.16 Induction Technology Solutions
  - 9.16.1 Induction Technology Solutions Details
  - 9.16.2 Induction Technology Solutions Major Business
  - 9.16.3 Induction Technology Solutions Induction Heating Machine Product and Services
  - 9.16.4 Induction Technology Solutions Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Induction Technology Solutions Recent Developments/Updates
  - 9.16.6 Induction Technology Solutions Competitive Strengths & Weaknesses
- 9.17 TM Induction Heating
  - 9.17.1 TM Induction Heating Details
  - 9.17.2 TM Induction Heating Major Business
  - 9.17.3 TM Induction Heating Induction Heating Machine Product and Services
  - 9.17.4 TM Induction Heating Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 TM Induction Heating Recent Developments/Updates
  - 9.17.6 TM Induction Heating Competitive Strengths & Weaknesses
- 9.18 KETCHAN Induction
  - 9.18.1 KETCHAN Induction Details
  - 9.18.2 KETCHAN Induction Major Business
  - 9.18.3 KETCHAN Induction Induction Heating Machine Product and Services
  - 9.18.4 KETCHAN Induction Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.18.5 KETCHAN Induction Recent Developments/Updates
  - 9.18.6 KETCHAN Induction Competitive Strengths & Weaknesses
- 9.19 Induction
  - 9.19.1 Induction Details
  - 9.19.2 Induction Major Business
  - 9.19.3 Induction Induction Heating Machine Product and Services
  - 9.19.4 Induction Induction Heating Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.19.5 Induction Recent Developments/Updates
  - 9.19.6 Induction Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Induction Heating Machine Industry Chain
- 10.2 Induction Heating Machine Upstream Analysis
  - 10.2.1 Induction Heating Machine Core Raw Materials
  - 10.2.2 Main Manufacturers of Induction Heating Machine Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Induction Heating Machine Production Mode
- 10.6 Induction Heating Machine Procurement Model
- 10.7 Induction Heating Machine Industry Sales Model and Sales Channels
  - 10.7.1 Induction Heating Machine Sales Model
  - 10.7.2 Induction Heating Machine Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Hybrid Electric Aircraft Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Hybrid Electric Aircraft Production Value by Region (2021-2026) & (USD Million)

Table 3. World Hybrid Electric Aircraft Production Value by Region (2027-2032) & (USD Million)

Table 4. World Hybrid Electric Aircraft Production Value Market Share by Region (2021-2026)

Table 5. World Hybrid Electric Aircraft Production Value Market Share by Region (2027-2032)

Table 6. World Hybrid Electric Aircraft Production by Region (2021-2026) & (Units)

Table 7. World Hybrid Electric Aircraft Production by Region (2027-2032) & (Units)

Table 8. World Hybrid Electric Aircraft Production Market Share by Region (2021-2026)

Table 9. World Hybrid Electric Aircraft Production Market Share by Region (2027-2032)

Table 10. World Hybrid Electric Aircraft Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Hybrid Electric Aircraft Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Hybrid Electric Aircraft Major Market Trends

Table 13. World Hybrid Electric Aircraft Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Hybrid Electric Aircraft Consumption by Region (2021-2026) & (Units)

Table 15. World Hybrid Electric Aircraft Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Hybrid Electric Aircraft Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Hybrid Electric Aircraft Producers in 2025

Table 18. World Hybrid Electric Aircraft Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Hybrid Electric Aircraft Producers in 2025

Table 20. World Hybrid Electric Aircraft Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Hybrid Electric Aircraft Company Evaluation Quadrant

Table 22. World Hybrid Electric Aircraft Industry Rank of Major Manufacturers, Based

on Production Value in 2025

Table 23. Head Office and Hybrid Electric Aircraft Production Site of Key Manufacturer

Table 24. Hybrid Electric Aircraft Market: Company Product Type Footprint

Table 25. Hybrid Electric Aircraft Market: Company Product Application Footprint

Table 26. Hybrid Electric Aircraft Competitive Factors

Table 27. Hybrid Electric Aircraft New Entrant and Capacity Expansion Plans

Table 28. Hybrid Electric Aircraft Mergers & Acquisitions Activity

Table 29. United States VS China Hybrid Electric Aircraft Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Hybrid Electric Aircraft Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Hybrid Electric Aircraft Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Hybrid Electric Aircraft Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Hybrid Electric Aircraft Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Hybrid Electric Aircraft Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Hybrid Electric Aircraft Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Hybrid Electric Aircraft Production Market Share (2021-2026)

Table 37. China Based Hybrid Electric Aircraft Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Hybrid Electric Aircraft Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Hybrid Electric Aircraft Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Hybrid Electric Aircraft Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Hybrid Electric Aircraft Production Market Share (2021-2026)

Table 42. Rest of World Based Hybrid Electric Aircraft Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Hybrid Electric Aircraft Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Hybrid Electric Aircraft Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Hybrid Electric Aircraft Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Hybrid Electric Aircraft Production Market Share (2021-2026)

Table 47. World Hybrid Electric Aircraft Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Hybrid Electric Aircraft Production by Type (2021-2026) & (Units)

Table 49. World Hybrid Electric Aircraft Production by Type (2027-2032) & (Units)

Table 50. World Hybrid Electric Aircraft Production Value by Type (2021-2026) & (USD Million)

Table 51. World Hybrid Electric Aircraft Production Value by Type (2027-2032) & (USD Million)

Table 52. World Hybrid Electric Aircraft Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Hybrid Electric Aircraft Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Hybrid Electric Aircraft Production Value by Electric Power Percentage, (USD Million), 2021 & 2025 & 2032

Table 55. World Hybrid Electric Aircraft Production by Electric Power Percentage (2021-2026) & (Units)

Table 56. World Hybrid Electric Aircraft Production by Electric Power Percentage (2027-2032) & (Units)

Table 57. World Hybrid Electric Aircraft Production Value by Electric Power Percentage (2021-2026) & (USD Million)

Table 58. World Hybrid Electric Aircraft Production Value by Electric Power Percentage (2027-2032) & (USD Million)

Table 59. World Hybrid Electric Aircraft Average Price by Electric Power Percentage (2021-2026) & (US\$/Unit)

Table 60. World Hybrid Electric Aircraft Average Price by Electric Power Percentage (2027-2032) & (US\$/Unit)

Table 61. World Hybrid Electric Aircraft Production Value by Maximum Takeoff Weight (MTOW), (USD Million), 2021 & 2025 & 2032

Table 62. World Hybrid Electric Aircraft Production by Maximum Takeoff Weight (MTOW) (2021-2026) & (Units)

Table 63. World Hybrid Electric Aircraft Production by Maximum Takeoff Weight (MTOW) (2027-2032) & (Units)

Table 64. World Hybrid Electric Aircraft Production Value by Maximum Takeoff Weight (MTOW) (2021-2026) & (USD Million)

Table 65. World Hybrid Electric Aircraft Production Value by Maximum Takeoff Weight

(MTOW) (2027-2032) & (USD Million)

Table 66. World Hybrid Electric Aircraft Average Price by Maximum Takeoff Weight (MTOW) (2021-2026) & (US\$/Unit)

Table 67. World Hybrid Electric Aircraft Average Price by Maximum Takeoff Weight (MTOW) (2027-2032) & (US\$/Unit)

Table 68. World Hybrid Electric Aircraft Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Hybrid Electric Aircraft Production by Application (2021-2026) & (Units)

Table 70. World Hybrid Electric Aircraft Production by Application (2027-2032) & (Units)

Table 71. World Hybrid Electric Aircraft Production Value by Application (2021-2026) & (USD Million)

Table 72. World Hybrid Electric Aircraft Production Value by Application (2027-2032) & (USD Million)

Table 73. World Hybrid Electric Aircraft Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Hybrid Electric Aircraft Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Airbus Basic Information, Manufacturing Base and Competitors

Table 76. Airbus Major Business

Table 77. Airbus Hybrid Electric Aircraft Product and Services

Table 78. Airbus Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Airbus Recent Developments/Updates

Table 80. Airbus Competitive Strengths & Weaknesses

Table 81. Daher Basic Information, Manufacturing Base and Competitors

Table 82. Daher Major Business

Table 83. Daher Hybrid Electric Aircraft Product and Services

Table 84. Daher Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Daher Recent Developments/Updates

Table 86. Daher Competitive Strengths & Weaknesses

Table 87. Joby Aviation Basic Information, Manufacturing Base and Competitors

Table 88. Joby Aviation Major Business

Table 89. Joby Aviation Hybrid Electric Aircraft Product and Services

Table 90. Joby Aviation Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Joby Aviation Recent Developments/Updates

Table 92. Joby Aviation Competitive Strengths & Weaknesses

Table 93. Electra Basic Information, Manufacturing Base and Competitors

Table 94. Electra Major Business

Table 95. Electra Hybrid Electric Aircraft Product and Services

Table 96. Electra Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Electra Recent Developments/Updates

Table 98. Electra Competitive Strengths & Weaknesses

Table 99. Heart Aerospace Basic Information, Manufacturing Base and Competitors

Table 100. Heart Aerospace Major Business

Table 101. Heart Aerospace Hybrid Electric Aircraft Product and Services

Table 102. Heart Aerospace Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Heart Aerospace Recent Developments/Updates

Table 104. Heart Aerospace Competitive Strengths & Weaknesses

Table 105. Aura Aero Basic Information, Manufacturing Base and Competitors

Table 106. Aura Aero Major Business

Table 107. Aura Aero Hybrid Electric Aircraft Product and Services

Table 108. Aura Aero Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Aura Aero Recent Developments/Updates

Table 110. Aura Aero Competitive Strengths & Weaknesses

Table 111. VoltAero Basic Information, Manufacturing Base and Competitors

Table 112. VoltAero Major Business

Table 113. VoltAero Hybrid Electric Aircraft Product and Services

Table 114. VoltAero Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. VoltAero Recent Developments/Updates

Table 116. VoltAero Competitive Strengths & Weaknesses

Table 117. Ampaire Basic Information, Manufacturing Base and Competitors

Table 118. Ampaire Major Business

Table 119. Ampaire Hybrid Electric Aircraft Product and Services

Table 120. Ampaire Hybrid Electric Aircraft Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Ampaire Recent Developments/Updates

Table 122. Ampaire Competitive Strengths & Weaknesses

Table 123. Horizon Aircraft Basic Information, Manufacturing Base and Competitors

Table 124. Horizon Aircraft Major Business

Table 125. Horizon Aircraft Hybrid Electric Aircraft Product and Services

Table 126. Horizon Aircraft Hybrid Electric Aircraft Production (Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Horizon Aircraft Recent Developments/Updates

Table 128. Horizon Aircraft Competitive Strengths & Weaknesses

Table 129. Elroy Air Basic Information, Manufacturing Base and Competitors

Table 130. Elroy Air Major Business

Table 131. Elroy Air Hybrid Electric Aircraft Product and Services

Table 132. Elroy Air Hybrid Electric Aircraft Production (Units), Price (US\$/Unit),  
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Elroy Air Recent Developments/Updates

Table 134. Elroy Air Competitive Strengths & Weaknesses

Table 135. Tecnam Basic Information, Manufacturing Base and Competitors

Table 136. Tecnam Major Business

Table 137. Tecnam Hybrid Electric Aircraft Product and Services

Table 138. Tecnam Hybrid Electric Aircraft Production (Units), Price (US\$/Unit),  
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Tecnam Recent Developments/Updates

Table 140. Tecnam Competitive Strengths & Weaknesses

Table 141. XTI Aerospace Basic Information, Manufacturing Base and Competitors

Table 142. XTI Aerospace Major Business

Table 143. XTI Aerospace Hybrid Electric Aircraft Product and Services

Table 144. XTI Aerospace Hybrid Electric Aircraft Production (Units), Price (US\$/Unit),  
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. XTI Aerospace Recent Developments/Updates

Table 146. XTI Aerospace Competitive Strengths & Weaknesses

Table 147. Global Key Players of Hybrid Electric Aircraft Upstream (Raw Materials)

Table 148. Global Hybrid Electric Aircraft Typical Customers

Table 149. Hybrid Electric Aircraft Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Hybrid Electric Aircraft Picture

Figure 2. World Hybrid Electric Aircraft Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Hybrid Electric Aircraft Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Hybrid Electric Aircraft Production (2021-2032) & (Units)

Figure 5. World Hybrid Electric Aircraft Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Hybrid Electric Aircraft Production Value Market Share by Region (2021-2032)

Figure 7. World Hybrid Electric Aircraft Production Market Share by Region (2021-2032)

Figure 8. North America Hybrid Electric Aircraft Production (2021-2032) & (Units)

Figure 9. Europe Hybrid Electric Aircraft Production (2021-2032) & (Units)

Figure 10. China Hybrid Electric Aircraft Production (2021-2032) & (Units)

Figure 11. Japan Hybrid Electric Aircraft Production (2021-2032) & (Units)

Figure 12. South Korea Hybrid Electric Aircraft Production (2021-2032) & (Units)

Figure 13. India Hybrid Electric Aircraft Production (2021-2032) & (Units)

Figure 14. Hybrid Electric Aircraft Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 17. World Hybrid Electric Aircraft Consumption Market Share by Region (2021-2032)

Figure 18. United States Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 19. China Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 20. Europe Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 21. Japan Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 22. South Korea Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 23. ASEAN Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 24. India Hybrid Electric Aircraft Consumption (2021-2032) & (Units)

Figure 25. Producer Shipments of Hybrid Electric Aircraft by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Hybrid Electric Aircraft Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Hybrid Electric Aircraft Markets in 2025

Figure 28. United States VS China: Hybrid Electric Aircraft Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Hybrid Electric Aircraft Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Hybrid Electric Aircraft Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Hybrid Electric Aircraft Production Market Share 2025

Figure 32. China Based Manufacturers Hybrid Electric Aircraft Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Hybrid Electric Aircraft Production Market Share 2025

Figure 34. World Hybrid Electric Aircraft Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Hybrid Electric Aircraft Production Value Market Share by Type in 2025

Figure 36. Series

Figure 37. Parallel

Figure 38. Series-Parallel

Figure 39. World Hybrid Electric Aircraft Production Market Share by Type (2021-2032)

Figure 40. World Hybrid Electric Aircraft Production Value Market Share by Type (2021-2032)

Figure 41. World Hybrid Electric Aircraft Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Hybrid Electric Aircraft Production Value by Electric Power Percentage, (USD Million), 2021 & 2025 & 2032

Figure 43. World Hybrid Electric Aircraft Production Value Market Share by Electric Power Percentage in 2025

Figure 44. Below 20%

Figure 45. 20%-50%

Figure 46. Above 50%

Figure 47. World Hybrid Electric Aircraft Production Market Share by Electric Power Percentage (2021-2032)

Figure 48. World Hybrid Electric Aircraft Production Value Market Share by Electric Power Percentage (2021-2032)

Figure 49. World Hybrid Electric Aircraft Average Price by Electric Power Percentage (2021-2032) & (US\$/Unit)

Figure 50. World Hybrid Electric Aircraft Production Value by Maximum Takeoff Weight (MTOW), (USD Million), 2021 & 2025 & 2032

Figure 51. World Hybrid Electric Aircraft Production Value Market Share by Maximum

Takeoff Weight (MTOW) in 2025

Figure 52. Under 1 ton

Figure 53. 1-5 tons

Figure 54. 5-20 tons

Figure 55. Over 20 tons

Figure 56. World Hybrid Electric Aircraft Production Market Share by Maximum Takeoff Weight (MTOW) (2021-2032)

Figure 57. World Hybrid Electric Aircraft Production Value Market Share by Maximum Takeoff Weight (MTOW) (2021-2032)

Figure 58. World Hybrid Electric Aircraft Average Price by Maximum Takeoff Weight (MTOW) (2021-2032) & (US\$/Unit)

Figure 59. World Hybrid Electric Aircraft Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Hybrid Electric Aircraft Production Value Market Share by Application in 2025

Figure 61. General Aviation

Figure 62. Special Purpose Aviation

Figure 63. Air Freight

Figure 64. Aircraft Modification

Figure 65. Other

Figure 66. World Hybrid Electric Aircraft Production Market Share by Application (2021-2032)

Figure 67. World Hybrid Electric Aircraft Production Value Market Share by Application (2021-2032)

Figure 68. World Hybrid Electric Aircraft Average Price by Application (2021-2032) & (US\$/Unit)

Figure 69. Hybrid Electric Aircraft Industry Chain

Figure 70. Hybrid Electric Aircraft Procurement Model

Figure 71. Hybrid Electric Aircraft Sales Model

Figure 72. Hybrid Electric Aircraft Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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