

Global Hydrogen-powered Aircraft Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrogen-powered Aircraft market size is expected to reach \$ 193625 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

In 2025, global Hydrogen-powered Aircraft production reached approximately 325 units, with an average global market price of around 312 m usd per unit. Gross margin is about 45%. The cost is 172 m usd per unit, the production is 450 units. Hydrogen-powered aircraft is a new type of green aviation vehicle, which adopts hydrogen as the core energy and is driven by hydrogen fuel cells or hydrogen gas turbine engines. It replaces traditional aviation fuel with near-zero carbon emissions, low noise and low pollution during flight, and can be applied in general aviation, regional passenger transportation and future civil aviation.

Zero-Carbon Power Replacement: Using liquid hydrogen (LH2) as fuel, only water vapor is emitted, achieving full-life zero carbon emissions and aligning with the 2050 aviation carbon neutrality goal.

Core Technology Breakthroughs: Focusing on LH2 storage & transport, hydrogen fuel cells/turbine engines, and system integration; lightweight hydrogen storage and efficient combustion control are critical.

Phased Commercialization: Following the roadmap of UAVs ? regional airliners ? mainline airliners; small aircraft lead by 2030, with 100+ seat models scaling post-2035?

This report studies the global Hydrogen-powered Aircraft production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen-powered 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 Hydrogen-powered Aircraft that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen-powered Aircraft total production and demand, 2021-2032, (Units)

Global Hydrogen-powered Aircraft total production value, 2021-2032, (USD Million)

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

Global Hydrogen-powered Aircraft consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydrogen-powered Aircraft domestic production, consumption, key domestic manufacturers and share

Global Hydrogen-powered Aircraft production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

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

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

This report profiles key players in the global Hydrogen-powered 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, Boeing, COMAC, AVIC, AECC, Rolls-Royce, Safran, Pratt & Whitney, GKN Aerospace, Deutsche Aircraft, 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 Hydrogen-powered 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 Hydrogen-powered Aircraft Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen-powered Aircraft Market, Segmentation by Type:

Cargo Aeroplane

Passenger Plane

Global Hydrogen-powered Aircraft Market, Segmentation by Storage:

Liquid Hydrogen Storage Aircraft

Gaseous Hydrogen Storage Aircraft

Global Hydrogen-powered Aircraft Market, Segmentation by Power:

Hydrogen Fuel Cell Aircraft

Hydrogen Combustion Engine Aircraft

Global Hydrogen-powered Aircraft Market, Segmentation by Application:

For Military

For Civilian

Companies Profiled:

Airbus

Boeing

COMAC

AVIC

AECC

Rolls-Royce

Safran

Pratt & Whitney

GKN Aerospace

Deutsche Aircraft

Mitsubishi Heavy Industries

Kawasaki Heavy Industries

Honda

Korea Aerospace Industries (KAI)

Hyundai Motor Company

Key Questions Answered:

1. How big is the global Hydrogen-powered Aircraft market?
2. What is the demand of the global Hydrogen-powered Aircraft market?
3. What is the year over year growth of the global Hydrogen-powered Aircraft market?
4. What is the production and production value of the global Hydrogen-powered Aircraft market?
5. Who are the key producers in the global Hydrogen-powered Aircraft market?
6. What are the growth factors driving the market demand?

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