

Global Military Aircraft Piston Engine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Military Aircraft Piston Engine market size is expected to reach \$ 240 million by 2032, rising at a market growth of 9.7% CAGR during the forecast period (2026-2032).

Military aircraft piston engines are, in essence, reciprocating internal-combustion engines used to drive propellers. Their technology lineage is closely aligned with general-aviation piston engines; most products are horizontally opposed, air-cooled designs fueled by gasoline or heavy fuels (Jet-A/diesel). As described in standard aerospace engineering textbooks, these engines convert the piston's reciprocating motion into crankshaft rotation to turn the propeller, and they remain one of the core powerplant types for modern low-speed aircraft operating in the low to mid altitudes. Thanks to lower cost, mature architectures, and extensive operational and maintenance know-how, they have long held a dominant position on light, low-speed aviation platforms.

From a military application perspective, piston aircraft engines are mainly found in three platform categories. First are basic/primary trainers, liaison aircraft, and border-patrol aircraft?slow fixed-wing aircraft where controlling acquisition cost, fuel burn, and sustainment expense is essential to support large-scale, long-cycle flight training and routine operations. Second are various light intelligence, surveillance, and reconnaissance (ISR) / special-mission aircraft; these missions are highly sensitive to low-altitude, slow-speed loitering performance and endurance, and piston engines can deliver relatively high fuel efficiency within the relevant operating envelope. Third is the fast-growing military and quasi-military UAV/UAS segment, especially small and medium long-endurance platforms. Research notes that small UAVs widely use piston engines; their typical replacement intervals are far shorter than those of large turbine engines, but they remain highly attractive for tactical and long-endurance UAVs due to low unit cost, strong modularity, and the limited availability of turbine substitutes in the

small-thrust class.

I. Overall Trend

Although military piston aircraft engines belong to a traditional propulsion family, they remain strategically relevant in training, UAV, and special-mission applications. The global market size rose from USD 54.7 million in 2020 to USD 92.5 million in 2024, and is expected to exceed USD 218 million by 2031, with future growth driven primarily by emerging markets in Asia-Pacific. As demand for small- and mid-sized military platforms expands and sensitivity to cost and maintenance increases, piston propulsion is likely to retain long-term room for deployment.

II. Regional Landscape

North America and Europe remain in the lead, supported by established technical ecosystems and supply-chain advantages, while China, India, and Southeast Asia are becoming the fastest-releasing demand regions. China's market shows a 2025-2031 CAGR of over 15%, reflecting strong momentum from domestic substitution in military UAVs and trainer aircraft. Asia-Pacific excluding China is also sustaining high growth, highlighting potential upside from regional cooperation and improving local manufacturing capabilities.

III. Technology and Product Direction

Technology evolution is concentrating on three priorities: reliability, fuel diversification, and environmental adaptability:

Promoting FADEC electronic control and heavy-fuel (Jet-A) compression-ignition powerplants

Advancing lightweight structures and high-efficiency cooling systems to improve power-to-weight performance

Exploring hybrid-electric concepts and unleaded-fuel compatibility to meet decarbonization and long-endurance mission needs

Chinese manufacturers are gradually breaking through in materials processes, control systems, and verification/testing, building a more complete capability chain from design and trials to series production.

IV. Market Structure and Competition

The global market features oligopolistic concentration, regional differentiation, and diverse sub-segments. Lycoming and Continental maintain global leadership by leveraging the general-aviation ecosystem, while AECC and several regional players in China are entering via trainer aircraft, target drones, and UAV programs, achieving civil-military integration breakthroughs. By 2031, international suppliers are expected to continue dominating high-end platforms, while Chinese and Indian companies are likely to form a strong competitive cohort in the mid- to low-power range.

V. Supply Chain and Policy Implications

The military piston engine value chain spans metallurgy/materials, precision machining,

fuel systems, and electronic control, making supply-chain security and strategic autonomy core policy themes. Many countries are strengthening civil?military integration to accelerate the military adoption of civilian engine technologies. During China?s 15th Five-Year Plan period, priorities should include:

Localization of core components: crankshafts, cylinder blocks, control systems, and other critical links

Power-system interface standards: co-developing unified interfaces with airframe OEMs

Test and certification infrastructure: building end-to-end military airworthiness verification platforms

International cooperation and export positioning: leveraging general-aviation export channels to enter developing-country markets for training and UAV applications

VI. Outlook

By 2031, global shipments of military piston engines are expected to reach over 4,300 units, with China accounting for more than 20% of the market. The industry is likely to continue evolving along a path of ?general-aviation?military convergence, light-platform?unmanned expansion, and energy?environment co-advancement.? Over the next decade, piston propulsion will remain a mainstay for low-speed military aviation platforms, while also serving as an important testbed for advanced materials and intelligent control technologies.

This report studies the global Military Aircraft Piston Engine production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Military Aircraft Piston Engine total production and demand, 2021-2032, (K Units)

Global Military Aircraft Piston Engine total production value, 2021-2032, (USD Million)

Global Military Aircraft Piston Engine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Military Aircraft Piston Engine consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Military Aircraft Piston Engine domestic production, consumption, key domestic manufacturers and share

Global Military Aircraft Piston Engine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Military Aircraft Piston Engine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Military Aircraft Piston Engine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Military Aircraft Piston Engine 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 Lycoming Engines, Austro, Rotax, SMA, AVIC, ULPower Aero Engines, Aecc South Industry Company Limited, 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 Military Aircraft Piston Engine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K 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 Military Aircraft Piston Engine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Military Aircraft Piston Engine Market, Segmentation by Type:

More than 300 Horsepower

180-300 Horsepower

Less than 180 Horsepower

Global Military Aircraft Piston Engine Market, Segmentation by Output Power Class:

Micro Power

Low Power

Mid Power

High Power

Global Military Aircraft Piston Engine Market, Segmentation by Fuel:

Gasoline

Diesel

Others

Global Military Aircraft Piston Engine Market, Segmentation by Application:

Training and Liaison Aircraft

Military Unmanned Aerial Vehicles (UAVs)

Light Attack/Close Range Support Aircraft

Military Helicopters and Rotary-Wing Trainer Aircraft

Experimental/Target Drones/Research and Special Platforms

Companies Profiled:

Lycoming Engines

Austro

Rotax

SMA

AVIC

ULPower Aero Engines

Aecc South Industry Company Limited

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Military Aircraft Piston Engine Production Value by Manufacturer (2021-2026)
- 3.2 World Military Aircraft Piston Engine Production by Manufacturer (2021-2026)
- 3.3 World Military Aircraft Piston Engine Average Price by Manufacturer (2021-2026)
- 3.4 Military Aircraft Piston Engine Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Military Aircraft Piston Engine Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Military Aircraft Piston Engine in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Military Aircraft Piston Engine in 2025
- 3.6 Military Aircraft Piston Engine Market: Overall Company Footprint Analysis
 - 3.6.1 Military Aircraft Piston Engine Market: Region Footprint
 - 3.6.2 Military Aircraft Piston Engine Market: Company Product Type Footprint
 - 3.6.3 Military Aircraft Piston Engine 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: Military Aircraft Piston Engine Production Value Comparison
 - 4.1.1 United States VS China: Military Aircraft Piston Engine Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Military Aircraft Piston Engine Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Military Aircraft Piston Engine Production Comparison
 - 4.2.1 United States VS China: Military Aircraft Piston Engine Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Military Aircraft Piston Engine Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Military Aircraft Piston Engine Consumption Comparison
 - 4.3.1 United States VS China: Military Aircraft Piston Engine Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Military Aircraft Piston Engine Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Military Aircraft Piston Engine Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Military Aircraft Piston Engine Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Military Aircraft Piston Engine Production Value (2021-2026)

4.4.3 United States Based Manufacturers Military Aircraft Piston Engine Production (2021-2026)

4.5 China Based Military Aircraft Piston Engine Manufacturers and Market Share

4.5.1 China Based Military Aircraft Piston Engine Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Military Aircraft Piston Engine Production Value (2021-2026)

4.5.3 China Based Manufacturers Military Aircraft Piston Engine Production (2021-2026)

4.6 Rest of World Based Military Aircraft Piston Engine Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Military Aircraft Piston Engine Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Military Aircraft Piston Engine Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Military Aircraft Piston Engine Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Military Aircraft Piston Engine Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 More than 300 Horsepower

5.2.2 180-300 Horsepower

5.2.3 Less than 180 Horsepower

5.3 Market Segment by Type

5.3.1 World Military Aircraft Piston Engine Production by Type (2021-2032)

5.3.2 World Military Aircraft Piston Engine Production Value by Type (2021-2032)

5.3.3 World Military Aircraft Piston Engine Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OUTPUT POWER CLASS

6.1 World Military Aircraft Piston Engine Market Size Overview by Output Power Class: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Output Power Class

6.2.1 Micro Power

6.2.2 Low Power

6.2.3 Mid Power

6.2.4 High Power

6.3 Market Segment by Output Power Class

6.3.1 World Military Aircraft Piston Engine Production by Output Power Class (2021-2032)

6.3.2 World Military Aircraft Piston Engine Production Value by Output Power Class (2021-2032)

6.3.3 World Military Aircraft Piston Engine Average Price by Output Power Class (2021-2032)

7 MARKET ANALYSIS BY FUEL

7.1 World Military Aircraft Piston Engine Market Size Overview by Fuel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Fuel

7.2.1 Gasoline

7.2.2 Diesel

7.2.3 Others

7.3 Market Segment by Fuel

7.3.1 World Military Aircraft Piston Engine Production by Fuel (2021-2032)

7.3.2 World Military Aircraft Piston Engine Production Value by Fuel (2021-2032)

7.3.3 World Military Aircraft Piston Engine Average Price by Fuel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Military Aircraft Piston Engine Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Training and Liaison Aircraft

8.2.2 Military Unmanned Aerial Vehicles (UAVs)

8.2.3 Light Attack/Close Range Support Aircraft

8.2.4 Military Helicopters and Rotary-Wing Trainer Aircraft

8.2.5 Experimental/Target Drones/Research and Special Platforms

8.3 Market Segment by Application

8.3.1 World Military Aircraft Piston Engine Production by Application (2021-2032)

8.3.2 World Military Aircraft Piston Engine Production Value by Application

(2021-2032)

8.3.3 World Military Aircraft Piston Engine Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Lycoming Engines

9.1.1 Lycoming Engines Details

9.1.2 Lycoming Engines Major Business

9.1.3 Lycoming Engines Military Aircraft Piston Engine Product and Services

9.1.4 Lycoming Engines Military Aircraft Piston Engine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Lycoming Engines Recent Developments/Updates

9.1.6 Lycoming Engines Competitive Strengths & Weaknesses

9.2 Austro

9.2.1 Austro Details

9.2.2 Austro Major Business

9.2.3 Austro Military Aircraft Piston Engine Product and Services

9.2.4 Austro Military Aircraft Piston Engine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Austro Recent Developments/Updates

9.2.6 Austro Competitive Strengths & Weaknesses

9.3 Rotax

9.3.1 Rotax Details

9.3.2 Rotax Major Business

9.3.3 Rotax Military Aircraft Piston Engine Product and Services

9.3.4 Rotax Military Aircraft Piston Engine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Rotax Recent Developments/Updates

9.3.6 Rotax Competitive Strengths & Weaknesses

9.4 SMA

9.4.1 SMA Details

9.4.2 SMA Major Business

9.4.3 SMA Military Aircraft Piston Engine Product and Services

9.4.4 SMA Military Aircraft Piston Engine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 SMA Recent Developments/Updates

9.4.6 SMA Competitive Strengths & Weaknesses

9.5 AVIC

9.5.1 AVIC Details

- 9.5.2 AVIC Major Business
- 9.5.3 AVIC Military Aircraft Piston Engine Product and Services
- 9.5.4 AVIC Military Aircraft Piston Engine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 AVIC Recent Developments/Updates
- 9.5.6 AVIC Competitive Strengths & Weaknesses
- 9.6 ULPower Aero Engines
 - 9.6.1 ULPower Aero Engines Details
 - 9.6.2 ULPower Aero Engines Major Business
 - 9.6.3 ULPower Aero Engines Military Aircraft Piston Engine Product and Services
 - 9.6.4 ULPower Aero Engines Military Aircraft Piston Engine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 ULPower Aero Engines Recent Developments/Updates
 - 9.6.6 ULPower Aero Engines Competitive Strengths & Weaknesses
- 9.7 Aecc South Industry Company Limited
 - 9.7.1 Aecc South Industry Company Limited Details
 - 9.7.2 Aecc South Industry Company Limited Major Business
 - 9.7.3 Aecc South Industry Company Limited Military Aircraft Piston Engine Product and Services
 - 9.7.4 Aecc South Industry Company Limited Military Aircraft Piston Engine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Aecc South Industry Company Limited Recent Developments/Updates
 - 9.7.6 Aecc South Industry Company Limited Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Military Aircraft Piston Engine Industry Chain
- 10.2 Military Aircraft Piston Engine Upstream Analysis
 - 10.2.1 Military Aircraft Piston Engine Core Raw Materials
 - 10.2.2 Main Manufacturers of Military Aircraft Piston Engine Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Military Aircraft Piston Engine Production Mode
- 10.6 Military Aircraft Piston Engine Procurement Model
- 10.7 Military Aircraft Piston Engine Industry Sales Model and Sales Channels
 - 10.7.1 Military Aircraft Piston Engine Sales Model
 - 10.7.2 Military Aircraft Piston Engine 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 Military Aircraft Piston Engine Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Military Aircraft Piston Engine Production Value by Region (2021-2026) & (USD Million)

Table 3. World Military Aircraft Piston Engine Production Value by Region (2027-2032) & (USD Million)

Table 4. World Military Aircraft Piston Engine Production Value Market Share by Region (2021-2026)

Table 5. World Military Aircraft Piston Engine Production Value Market Share by Region (2027-2032)

Table 6. World Military Aircraft Piston Engine Production by Region (2021-2026) & (K Units)

Table 7. World Military Aircraft Piston Engine Production by Region (2027-2032) & (K Units)

Table 8. World Military Aircraft Piston Engine Production Market Share by Region (2021-2026)

Table 9. World Military Aircraft Piston Engine Production Market Share by Region (2027-2032)

Table 10. World Military Aircraft Piston Engine Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Military Aircraft Piston Engine Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Military Aircraft Piston Engine Major Market Trends

Table 13. World Military Aircraft Piston Engine Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Military Aircraft Piston Engine Consumption by Region (2021-2026) & (K Units)

Table 15. World Military Aircraft Piston Engine Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Military Aircraft Piston Engine Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Military Aircraft Piston Engine Producers in 2025

Table 18. World Military Aircraft Piston Engine Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Military Aircraft Piston Engine Producers in 2025

Table 20. World Military Aircraft Piston Engine Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Military Aircraft Piston Engine Company Evaluation Quadrant

Table 22. World Military Aircraft Piston Engine Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Military Aircraft Piston Engine Production Site of Key Manufacturer

Table 24. Military Aircraft Piston Engine Market: Company Product Type Footprint

Table 25. Military Aircraft Piston Engine Market: Company Product Application Footprint

Table 26. Military Aircraft Piston Engine Competitive Factors

Table 27. Military Aircraft Piston Engine New Entrant and Capacity Expansion Plans

Table 28. Military Aircraft Piston Engine Mergers & Acquisitions Activity

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

Table 30. United States VS China Military Aircraft Piston Engine Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Military Aircraft Piston Engine Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Military Aircraft Piston Engine Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Military Aircraft Piston Engine Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Military Aircraft Piston Engine Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Military Aircraft Piston Engine Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Military Aircraft Piston Engine Production Market Share (2021-2026)

Table 37. China Based Military Aircraft Piston Engine Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Military Aircraft Piston Engine Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Military Aircraft Piston Engine Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Military Aircraft Piston Engine Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Military Aircraft Piston Engine Production Market

Share (2021-2026)

Table 42. Rest of World Based Military Aircraft Piston Engine Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Military Aircraft Piston Engine Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Military Aircraft Piston Engine Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Military Aircraft Piston Engine Production Market Share (2021-2026)

Table 47. World Military Aircraft Piston Engine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Military Aircraft Piston Engine Production by Type (2021-2026) & (K Units)

Table 49. World Military Aircraft Piston Engine Production by Type (2027-2032) & (K Units)

Table 50. World Military Aircraft Piston Engine Production Value by Type (2021-2026) & (USD Million)

Table 51. World Military Aircraft Piston Engine Production Value by Type (2027-2032) & (USD Million)

Table 52. World Military Aircraft Piston Engine Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Military Aircraft Piston Engine Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Military Aircraft Piston Engine Production Value by Output Power Class, (USD Million), 2021 & 2025 & 2032

Table 55. World Military Aircraft Piston Engine Production by Output Power Class (2021-2026) & (K Units)

Table 56. World Military Aircraft Piston Engine Production by Output Power Class (2027-2032) & (K Units)

Table 57. World Military Aircraft Piston Engine Production Value by Output Power Class (2021-2026) & (USD Million)

Table 58. World Military Aircraft Piston Engine Production Value by Output Power Class (2027-2032) & (USD Million)

Table 59. World Military Aircraft Piston Engine Average Price by Output Power Class (2021-2026) & (K US\$/Unit)

Table 60. World Military Aircraft Piston Engine Average Price by Output Power Class (2027-2032) & (K US\$/Unit)

Table 61. World Military Aircraft Piston Engine Production Value by Fuel, (USD Million), 2021 & 2025 & 2032

Table 62. World Military Aircraft Piston Engine Production by Fuel (2021-2026) & (K Units)

Table 63. World Military Aircraft Piston Engine Production by Fuel (2027-2032) & (K Units)

Table 64. World Military Aircraft Piston Engine Production Value by Fuel (2021-2026) & (USD Million)

Table 65. World Military Aircraft Piston Engine Production Value by Fuel (2027-2032) & (USD Million)

Table 66. World Military Aircraft Piston Engine Average Price by Fuel (2021-2026) & (K US\$/Unit)

Table 67. World Military Aircraft Piston Engine Average Price by Fuel (2027-2032) & (K US\$/Unit)

Table 68. World Military Aircraft Piston Engine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Military Aircraft Piston Engine Production by Application (2021-2026) & (K Units)

Table 70. World Military Aircraft Piston Engine Production by Application (2027-2032) & (K Units)

Table 71. World Military Aircraft Piston Engine Production Value by Application (2021-2026) & (USD Million)

Table 72. World Military Aircraft Piston Engine Production Value by Application (2027-2032) & (USD Million)

Table 73. World Military Aircraft Piston Engine Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Military Aircraft Piston Engine Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Lycoming Engines Basic Information, Manufacturing Base and Competitors

Table 76. Lycoming Engines Major Business

Table 77. Lycoming Engines Military Aircraft Piston Engine Product and Services

Table 78. Lycoming Engines Military Aircraft Piston Engine Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Lycoming Engines Recent Developments/Updates

Table 80. Lycoming Engines Competitive Strengths & Weaknesses

Table 81. Austro Basic Information, Manufacturing Base and Competitors

Table 82. Austro Major Business

Table 83. Austro Military Aircraft Piston Engine Product and Services

- Table 84. Austro Military Aircraft Piston Engine Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Austro Recent Developments/Updates
- Table 86. Austro Competitive Strengths & Weaknesses
- Table 87. Rotax Basic Information, Manufacturing Base and Competitors
- Table 88. Rotax Major Business
- Table 89. Rotax Military Aircraft Piston Engine Product and Services
- Table 90. Rotax Military Aircraft Piston Engine Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Rotax Recent Developments/Updates
- Table 92. Rotax Competitive Strengths & Weaknesses
- Table 93. SMA Basic Information, Manufacturing Base and Competitors
- Table 94. SMA Major Business
- Table 95. SMA Military Aircraft Piston Engine Product and Services
- Table 96. SMA Military Aircraft Piston Engine Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. SMA Recent Developments/Updates
- Table 98. SMA Competitive Strengths & Weaknesses
- Table 99. AVIC Basic Information, Manufacturing Base and Competitors
- Table 100. AVIC Major Business
- Table 101. AVIC Military Aircraft Piston Engine Product and Services
- Table 102. AVIC Military Aircraft Piston Engine Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. AVIC Recent Developments/Updates
- Table 104. AVIC Competitive Strengths & Weaknesses
- Table 105. ULPower Aero Engines Basic Information, Manufacturing Base and Competitors
- Table 106. ULPower Aero Engines Major Business
- Table 107. ULPower Aero Engines Military Aircraft Piston Engine Product and Services
- Table 108. ULPower Aero Engines Military Aircraft Piston Engine Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. ULPower Aero Engines Recent Developments/Updates
- Table 110. ULPower Aero Engines Competitive Strengths & Weaknesses
- Table 111. Aecc South Industry Company Limited Basic Information, Manufacturing Base and Competitors
- Table 112. Aecc South Industry Company Limited Major Business
- Table 113. Aecc South Industry Company Limited Military Aircraft Piston Engine Product and Services

Table 114. Aecc South Industry Company Limited Military Aircraft Piston Engine Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Aecc South Industry Company Limited Recent Developments/Updates

Table 116. Aecc South Industry Company Limited Competitive Strengths & Weaknesses

Table 117. Global Key Players of Military Aircraft Piston Engine Upstream (Raw Materials)

Table 118. Global Military Aircraft Piston Engine Typical Customers

Table 119. Military Aircraft Piston Engine Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Military Aircraft Piston Engine Picture

Figure 2. World Military Aircraft Piston Engine Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Military Aircraft Piston Engine Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Military Aircraft Piston Engine Production (2021-2032) & (K Units)

Figure 5. World Military Aircraft Piston Engine Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Military Aircraft Piston Engine Production Value Market Share by Region (2021-2032)

Figure 7. World Military Aircraft Piston Engine Production Market Share by Region (2021-2032)

Figure 8. North America Military Aircraft Piston Engine Production (2021-2032) & (K Units)

Figure 9. Europe Military Aircraft Piston Engine Production (2021-2032) & (K Units)

Figure 10. China Military Aircraft Piston Engine Production (2021-2032) & (K Units)

Figure 11. Military Aircraft Piston Engine Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 14. World Military Aircraft Piston Engine Consumption Market Share by Region (2021-2032)

Figure 15. United States Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 16. China Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 17. Europe Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 18. Japan Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 19. South Korea Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 20. ASEAN Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 21. India Military Aircraft Piston Engine Consumption (2021-2032) & (K Units)

Figure 22. Producer Shipments of Military Aircraft Piston Engine by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Military Aircraft Piston Engine Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Military Aircraft Piston

Engine Markets in 2025

Figure 25. United States VS China: Military Aircraft Piston Engine Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Military Aircraft Piston Engine Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Military Aircraft Piston Engine Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Military Aircraft Piston Engine Production Market Share 2025

Figure 29. China Based Manufacturers Military Aircraft Piston Engine Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Military Aircraft Piston Engine Production Market Share 2025

Figure 31. World Military Aircraft Piston Engine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Military Aircraft Piston Engine Production Value Market Share by Type in 2025

Figure 33. More than 300 Horsepower

Figure 34. 180-300 Horsepower

Figure 35. Less than 180 Horsepower

Figure 36. World Military Aircraft Piston Engine Production Market Share by Type (2021-2032)

Figure 37. World Military Aircraft Piston Engine Production Value Market Share by Type (2021-2032)

Figure 38. World Military Aircraft Piston Engine Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Military Aircraft Piston Engine Production Value by Output Power Class, (USD Million), 2021 & 2025 & 2032

Figure 40. World Military Aircraft Piston Engine Production Value Market Share by Output Power Class in 2025

Figure 41. Micro Power

Figure 42. Low Power

Figure 43. Mid Power

Figure 44. High Power

Figure 45. World Military Aircraft Piston Engine Production Market Share by Output Power Class (2021-2032)

Figure 46. World Military Aircraft Piston Engine Production Value Market Share by Output Power Class (2021-2032)

Figure 47. World Military Aircraft Piston Engine Average Price by Output Power Class

(2021-2032) & (K US\$/Unit)

Figure 48. World Military Aircraft Piston Engine Production Value by Fuel, (USD Million), 2021 & 2025 & 2032

Figure 49. World Military Aircraft Piston Engine Production Value Market Share by Fuel in 2025

Figure 50. Gasoline

Figure 51. Diesel

Figure 52. Others

Figure 53. World Military Aircraft Piston Engine Production Market Share by Fuel (2021-2032)

Figure 54. World Military Aircraft Piston Engine Production Value Market Share by Fuel (2021-2032)

Figure 55. World Military Aircraft Piston Engine Average Price by Fuel (2021-2032) & (K US\$/Unit)

Figure 56. World Military Aircraft Piston Engine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Military Aircraft Piston Engine Production Value Market Share by Application in 2025

Figure 58. Training and Liaison Aircraft

Figure 59. Military Unmanned Aerial Vehicles (UAVs)

Figure 60. Light Attack/Close Range Support Aircraft

Figure 61. Military Helicopters and Rotary-Wing Trainer Aircraft

Figure 62. Experimental/Target Drones/Research and Special Platforms

Figure 63. World Military Aircraft Piston Engine Production Market Share by Application (2021-2032)

Figure 64. World Military Aircraft Piston Engine Production Value Market Share by Application (2021-2032)

Figure 65. World Military Aircraft Piston Engine Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 66. Military Aircraft Piston Engine Industry Chain

Figure 67. Military Aircraft Piston Engine Procurement Model

Figure 68. Military Aircraft Piston Engine Sales Model

Figure 69. Military Aircraft Piston Engine Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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