

Global Automotive Aluminum Alloy Piston Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G49A9700DBDBEN.html>

Date: June 2026

Pages: 135

Price: US\$ 4,480.00 (Single User License)

ID: G49A9700DBDBEN

Abstracts

The global Automotive Aluminum Alloy Piston market size is expected to reach \$ 2367 million by 2032, rising at a market growth of -2.5% CAGR during the forecast period (2026-2032).

Automotive aluminum alloy pistons are core reciprocating components inside internal-combustion engine cylinders. Usually made from cast or forged Al-Si-based alloys, they connect to the connecting rod through a piston pin and work with piston rings and cylinder liners to provide sealing, heat transfer, guidance, and power transmission. Their function is to withstand combustion pressure and high temperature while converting gas pressure into crankshaft motion, with key requirements including lightweighting, low friction, wear resistance, thermal-fatigue resistance, and emissions efficiency for gasoline, diesel, hybrid, and performance engines.

The upstream supply chain includes primary/recycled aluminum, Al-Si alloy ingots, coating materials, graphite/molybdenum-disulfide solid lubricants, moulds, casting equipment, forging equipment, heat-treatment equipment, and precision machining systems. Downstream customers include engine plants, OEMs, powertrain Tier 1 suppliers, the aftermarket, and performance/racing channels.

In 2025, global automotive aluminum alloy piston production reached approximately 330 million units, with an average global market price is \$ 8 per unit.

The global automotive aluminum alloy pistons industry is a mature segment of the internal combustion engine supply chain, serving passenger cars, commercial vehicles, hybrid vehicles, range-extended vehicles and selected high-performance engines. Aluminum alloy pistons operate inside the cylinder, where they withstand combustion

pressure and thermal shock while transferring combustion energy to the connecting rod and crankshaft. Compared with steel or cast-iron pistons, aluminum alloy pistons offer lower density, better thermal conductivity, good machinability and relatively controllable cost, which is why they have long been widely used in gasoline engines and many light-duty diesel engines. As modern engines move toward higher compression ratios, turbocharging, direct injection, lower friction and stricter emissions, pistons face much higher thermal, mechanical and tribological requirements. This is driving the shift from conventional cast pistons toward high-strength alloys, precision casting or forging, cooling galleries, asymmetric pin bores, skirt coatings and advanced surface treatments. Public technical materials also note that piston thermal and mechanical loads in modern gasoline and diesel engines have increased significantly, while lower weight and reduced friction remain key routes to improving engine efficiency.

In terms of technology trends, automotive aluminum alloy pistons are developing toward lighter weight, higher strength, lower friction, better heat resistance, lower noise and longer service life. On the material side, high-silicon aluminum alloys, eutectic and hypereutectic aluminum-silicon alloys, forged aluminum alloys and heat-resistant aluminum alloys remain important development directions, aiming to improve wear resistance, thermal-fatigue resistance and dimensional stability while reducing mass. On the structural side, cooling galleries, thinner-wall designs, reinforced ring grooves, optimized skirt profiles, low-friction shapes and lightweight pin-boss structures are increasingly used. On the surface-treatment side, graphite coatings, resin-based anti-friction coatings, anodizing, plated layers and thermal-barrier coatings are adopted to reduce friction, control wear and improve thermal management. Because aluminum alloy strength decreases at elevated temperatures but its thermal conductivity is much higher than that of steel piston materials, cooling-gallery design, oil-jet cooling and piston-crown heat management are becoming critical in high-load engines.

The main growth drivers come from three areas. First, gasoline vehicles, hybrid vehicles and range-extended vehicles still require efficient internal combustion engines, especially in hybrid platforms where engines must deliver high thermal efficiency, low fuel consumption, low emissions and strong durability. Second, emissions regulations and fuel-economy requirements are pushing engines toward downsizing, turbocharging, higher compression ratios and lower-friction systems, making the piston a key component for heat resistance, knock control, friction reduction and oil-consumption control. Third, electrification will reduce the long-term space for conventional internal combustion vehicles, but the global transition is uneven; hybrids, plug-in hybrids, range-extended vehicles, commercial vehicles and fuel-powered vehicles in emerging markets

will continue to support demand for aluminum alloy pistons. The IEA's EV outlook also indicates that electric-vehicle penetration is rising, but transition speeds differ across regions, meaning the internal-combustion component sector is shifting from broad volume expansion toward high-efficiency engine programs, hybrid-platform adaptation and aftermarket replacement demand.

This report studies the global Automotive Aluminum Alloy Piston production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Aluminum Alloy Piston total production and demand, 2021-2032, (K Units)

Global Automotive Aluminum Alloy Piston total production value, 2021-2032, (USD Million)

Global Automotive Aluminum Alloy Piston production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Aluminum Alloy Piston consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Aluminum Alloy Piston domestic production, consumption, key domestic manufacturers and share

Global Automotive Aluminum Alloy Piston production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Aluminum Alloy Piston production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Aluminum Alloy Piston production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Aluminum Alloy Piston 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 Mahle Group, Kolbenschmidt, Tenneco, Aisin, Dong Yang Piston, Binzhou Bohai Piston, Shriram Pistons & Rings, Astemo, Honda Foundry, Jiangbin Machinery, 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 Automotive Aluminum Alloy Piston market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Automotive Aluminum Alloy Piston Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Aluminum Alloy Piston Market, Segmentation by Type:

Cast Aluminum Alloy Pistons

Forged Aluminum Alloy Pistons

Global Automotive Aluminum Alloy Piston Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Automotive Aluminum Alloy Piston Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Mahle Group

Kolbenschmidt

Tenneco

Aisin

Dong Yang Piston

Binzhou Bohai Piston

Shriram Pistons & Rings

Astemo

Honda Foundry

Jiangbin Machinery

Shangdong Shuanggang Piston

India Pistons Limited

Jialaidun

Yenmak

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Automotive Aluminum Alloy Piston Introduction
- 1.2 World Automotive Aluminum Alloy Piston Supply & Forecast
 - 1.2.1 World Automotive Aluminum Alloy Piston Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Automotive Aluminum Alloy Piston Production (2021-2032)
 - 1.2.3 World Automotive Aluminum Alloy Piston Pricing Trends (2021-2032)
- 1.3 World Automotive Aluminum Alloy Piston Production by Region (Based on Production Site)
 - 1.3.1 World Automotive Aluminum Alloy Piston Production Value by Region (2021-2032)
 - 1.3.2 World Automotive Aluminum Alloy Piston Production by Region (2021-2032)
 - 1.3.3 World Automotive Aluminum Alloy Piston Average Price by Region (2021-2032)
 - 1.3.4 North America Automotive Aluminum Alloy Piston Production (2021-2032)
 - 1.3.5 Europe Automotive Aluminum Alloy Piston Production (2021-2032)
 - 1.3.6 China Automotive Aluminum Alloy Piston Production (2021-2032)
 - 1.3.7 Japan Automotive Aluminum Alloy Piston Production (2021-2032)
 - 1.3.8 South Korea Automotive Aluminum Alloy Piston Production (2021-2032)
 - 1.3.9 India Automotive Aluminum Alloy Piston Production (2021-2032)
 - 1.3.10 Mexico Automotive Aluminum Alloy Piston Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automotive Aluminum Alloy Piston Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Automotive Aluminum Alloy Piston Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Automotive Aluminum Alloy Piston Demand (2021-2032)
- 2.2 World Automotive Aluminum Alloy Piston Consumption by Region
 - 2.2.1 World Automotive Aluminum Alloy Piston Consumption by Region (2021-2026)
 - 2.2.2 World Automotive Aluminum Alloy Piston Consumption Forecast by Region (2027-2032)
- 2.3 United States Automotive Aluminum Alloy Piston Consumption (2021-2032)
- 2.4 China Automotive Aluminum Alloy Piston Consumption (2021-2032)
- 2.5 Europe Automotive Aluminum Alloy Piston Consumption (2021-2032)
- 2.6 Japan Automotive Aluminum Alloy Piston Consumption (2021-2032)

- 2.7 South Korea Automotive Aluminum Alloy Piston Consumption (2021-2032)
- 2.8 ASEAN Automotive Aluminum Alloy Piston Consumption (2021-2032)
- 2.9 India Automotive Aluminum Alloy Piston Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4.2.1 United States VS China: Automotive Aluminum Alloy Piston Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automotive Aluminum Alloy Piston Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Automotive Aluminum Alloy Piston Consumption Comparison

4.3.1 United States VS China: Automotive Aluminum Alloy Piston Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automotive Aluminum Alloy Piston Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automotive Aluminum Alloy Piston Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive Aluminum Alloy Piston Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive Aluminum Alloy Piston Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive Aluminum Alloy Piston Production (2021-2026)

4.5 China Based Automotive Aluminum Alloy Piston Manufacturers and Market Share

4.5.1 China Based Automotive Aluminum Alloy Piston Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive Aluminum Alloy Piston Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive Aluminum Alloy Piston Production (2021-2026)

4.6 Rest of World Based Automotive Aluminum Alloy Piston Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive Aluminum Alloy Piston Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive Aluminum Alloy Piston Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive Aluminum Alloy Piston Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive Aluminum Alloy Piston Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Cast Aluminum Alloy Pistons

5.2.2 Forged Aluminum Alloy Pistons

5.3 Market Segment by Type

5.3.1 World Automotive Aluminum Alloy Piston Production by Type (2021-2032)

5.3.2 World Automotive Aluminum Alloy Piston Production Value by Type (2021-2032)

5.3.3 World Automotive Aluminum Alloy Piston Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SALES CHANNEL

6.1 World Automotive Aluminum Alloy Piston Market Size Overview by Sales Channel:
2021 VS 2025 VS 2032

6.2 Segment Introduction by Sales Channel

6.2.1 OEM

6.2.2 Aftermarket

6.3 Market Segment by Sales Channel

6.3.1 World Automotive Aluminum Alloy Piston Production by Sales Channel
(2021-2032)

6.3.2 World Automotive Aluminum Alloy Piston Production Value by Sales Channel
(2021-2032)

6.3.3 World Automotive Aluminum Alloy Piston Average Price by Sales Channel
(2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Automotive Aluminum Alloy Piston Market Size Overview by Application:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Passenger Car

7.2.2 Commercial Vehicle

7.3 Market Segment by Application

7.3.1 World Automotive Aluminum Alloy Piston Production by Application (2021-2032)

7.3.2 World Automotive Aluminum Alloy Piston Production Value by Application
(2021-2032)

7.3.3 World Automotive Aluminum Alloy Piston Average Price by Application
(2021-2032)

8 COMPANY PROFILES

8.1 Mahle Group

- 8.1.1 Mahle Group Details
- 8.1.2 Mahle Group Major Business
- 8.1.3 Mahle Group Automotive Aluminum Alloy Piston Product and Services
- 8.1.4 Mahle Group Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.1.5 Mahle Group Recent Developments/Updates
- 8.1.6 Mahle Group Competitive Strengths & Weaknesses
- 8.2 Kolbenschmidt
 - 8.2.1 Kolbenschmidt Details
 - 8.2.2 Kolbenschmidt Major Business
 - 8.2.3 Kolbenschmidt Automotive Aluminum Alloy Piston Product and Services
 - 8.2.4 Kolbenschmidt Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.2.5 Kolbenschmidt Recent Developments/Updates
 - 8.2.6 Kolbenschmidt Competitive Strengths & Weaknesses
- 8.3 Tenneco
 - 8.3.1 Tenneco Details
 - 8.3.2 Tenneco Major Business
 - 8.3.3 Tenneco Automotive Aluminum Alloy Piston Product and Services
 - 8.3.4 Tenneco Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Tenneco Recent Developments/Updates
 - 8.3.6 Tenneco Competitive Strengths & Weaknesses
- 8.4 Aisin
 - 8.4.1 Aisin Details
 - 8.4.2 Aisin Major Business
 - 8.4.3 Aisin Automotive Aluminum Alloy Piston Product and Services
 - 8.4.4 Aisin Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Aisin Recent Developments/Updates
 - 8.4.6 Aisin Competitive Strengths & Weaknesses
- 8.5 Dong Yang Piston
 - 8.5.1 Dong Yang Piston Details
 - 8.5.2 Dong Yang Piston Major Business
 - 8.5.3 Dong Yang Piston Automotive Aluminum Alloy Piston Product and Services
 - 8.5.4 Dong Yang Piston Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Dong Yang Piston Recent Developments/Updates
 - 8.5.6 Dong Yang Piston Competitive Strengths & Weaknesses

8.6 Binzhou Bohai Piston

8.6.1 Binzhou Bohai Piston Details

8.6.2 Binzhou Bohai Piston Major Business

8.6.3 Binzhou Bohai Piston Automotive Aluminum Alloy Piston Product and Services

8.6.4 Binzhou Bohai Piston Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Binzhou Bohai Piston Recent Developments/Updates

8.6.6 Binzhou Bohai Piston Competitive Strengths & Weaknesses

8.7 Shriram Pistons & Rings

8.7.1 Shriram Pistons & Rings Details

8.7.2 Shriram Pistons & Rings Major Business

8.7.3 Shriram Pistons & Rings Automotive Aluminum Alloy Piston Product and Services

8.7.4 Shriram Pistons & Rings Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Shriram Pistons & Rings Recent Developments/Updates

8.7.6 Shriram Pistons & Rings Competitive Strengths & Weaknesses

8.8 Astemo

8.8.1 Astemo Details

8.8.2 Astemo Major Business

8.8.3 Astemo Automotive Aluminum Alloy Piston Product and Services

8.8.4 Astemo Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Astemo Recent Developments/Updates

8.8.6 Astemo Competitive Strengths & Weaknesses

8.9 Honda Foundry

8.9.1 Honda Foundry Details

8.9.2 Honda Foundry Major Business

8.9.3 Honda Foundry Automotive Aluminum Alloy Piston Product and Services

8.9.4 Honda Foundry Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Honda Foundry Recent Developments/Updates

8.9.6 Honda Foundry Competitive Strengths & Weaknesses

8.10 Jiangbin Machinery

8.10.1 Jiangbin Machinery Details

8.10.2 Jiangbin Machinery Major Business

8.10.3 Jiangbin Machinery Automotive Aluminum Alloy Piston Product and Services

8.10.4 Jiangbin Machinery Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.10.5 Jiangbin Machinery Recent Developments/Updates
- 8.10.6 Jiangbin Machinery Competitive Strengths & Weaknesses
- 8.11 Shangdong Shuanggang Piston
 - 8.11.1 Shangdong Shuanggang Piston Details
 - 8.11.2 Shangdong Shuanggang Piston Major Business
 - 8.11.3 Shangdong Shuanggang Piston Automotive Aluminum Alloy Piston Product and Services
 - 8.11.4 Shangdong Shuanggang Piston Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Shangdong Shuanggang Piston Recent Developments/Updates
 - 8.11.6 Shangdong Shuanggang Piston Competitive Strengths & Weaknesses
- 8.12 India Pistons Limited
 - 8.12.1 India Pistons Limited Details
 - 8.12.2 India Pistons Limited Major Business
 - 8.12.3 India Pistons Limited Automotive Aluminum Alloy Piston Product and Services
 - 8.12.4 India Pistons Limited Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 India Pistons Limited Recent Developments/Updates
 - 8.12.6 India Pistons Limited Competitive Strengths & Weaknesses
- 8.13 Jialaidun
 - 8.13.1 Jialaidun Details
 - 8.13.2 Jialaidun Major Business
 - 8.13.3 Jialaidun Automotive Aluminum Alloy Piston Product and Services
 - 8.13.4 Jialaidun Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Jialaidun Recent Developments/Updates
 - 8.13.6 Jialaidun Competitive Strengths & Weaknesses
- 8.14 Yenmak
 - 8.14.1 Yenmak Details
 - 8.14.2 Yenmak Major Business
 - 8.14.3 Yenmak Automotive Aluminum Alloy Piston Product and Services
 - 8.14.4 Yenmak Automotive Aluminum Alloy Piston Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 Yenmak Recent Developments/Updates
 - 8.14.6 Yenmak Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Automotive Aluminum Alloy Piston Industry Chain

9.2 Automotive Aluminum Alloy Piston Upstream Analysis

9.2.1 Automotive Aluminum Alloy Piston Core Raw Materials

9.2.2 Main Manufacturers of Automotive Aluminum Alloy Piston Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Automotive Aluminum Alloy Piston Production Mode

9.6 Automotive Aluminum Alloy Piston Procurement Model

9.7 Automotive Aluminum Alloy Piston Industry Sales Model and Sales Channels

9.7.1 Automotive Aluminum Alloy Piston Sales Model

9.7.2 Automotive Aluminum Alloy Piston Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Automotive Aluminum Alloy Piston Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive Aluminum Alloy Piston Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive Aluminum Alloy Piston Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive Aluminum Alloy Piston Production Value Market Share by Region (2021-2026)

Table 5. World Automotive Aluminum Alloy Piston Production Value Market Share by Region (2027-2032)

Table 6. World Automotive Aluminum Alloy Piston Production by Region (2021-2026) & (K Units)

Table 7. World Automotive Aluminum Alloy Piston Production by Region (2027-2032) & (K Units)

Table 8. World Automotive Aluminum Alloy Piston Production Market Share by Region (2021-2026)

Table 9. World Automotive Aluminum Alloy Piston Production Market Share by Region (2027-2032)

Table 10. World Automotive Aluminum Alloy Piston Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Automotive Aluminum Alloy Piston Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Automotive Aluminum Alloy Piston Major Market Trends

Table 13. World Automotive Aluminum Alloy Piston Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automotive Aluminum Alloy Piston Consumption by Region (2021-2026) & (K Units)

Table 15. World Automotive Aluminum Alloy Piston Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automotive Aluminum Alloy Piston Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive Aluminum Alloy Piston Producers in 2025

Table 18. World Automotive Aluminum Alloy Piston Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive Aluminum Alloy Piston Producers in 2025

Table 20. World Automotive Aluminum Alloy Piston Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Automotive Aluminum Alloy Piston Company Evaluation Quadrant

Table 22. World Automotive Aluminum Alloy Piston Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive Aluminum Alloy Piston Production Site of Key Manufacturer

Table 24. Automotive Aluminum Alloy Piston Market: Company Product Type Footprint

Table 25. Automotive Aluminum Alloy Piston Market: Company Product Application Footprint

Table 26. Automotive Aluminum Alloy Piston Competitive Factors

Table 27. Automotive Aluminum Alloy Piston New Entrant and Capacity Expansion Plans

Table 28. Automotive Aluminum Alloy Piston Mergers & Acquisitions Activity

Table 29. United States VS China Automotive Aluminum Alloy Piston Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automotive Aluminum Alloy Piston Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive Aluminum Alloy Piston Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automotive Aluminum Alloy Piston Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive Aluminum Alloy Piston Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive Aluminum Alloy Piston Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive Aluminum Alloy Piston Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automotive Aluminum Alloy Piston Production Market Share (2021-2026)

Table 37. China Based Automotive Aluminum Alloy Piston Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive Aluminum Alloy Piston Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive Aluminum Alloy Piston Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive Aluminum Alloy Piston Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Automotive Aluminum Alloy Piston Production Market Share (2021-2026)

Table 42. Rest of World Based Automotive Aluminum Alloy Piston Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automotive Aluminum Alloy Piston Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automotive Aluminum Alloy Piston Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive Aluminum Alloy Piston Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automotive Aluminum Alloy Piston Production Market Share (2021-2026)

Table 47. World Automotive Aluminum Alloy Piston Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automotive Aluminum Alloy Piston Production by Type (2021-2026) & (K Units)

Table 49. World Automotive Aluminum Alloy Piston Production by Type (2027-2032) & (K Units)

Table 50. World Automotive Aluminum Alloy Piston Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automotive Aluminum Alloy Piston Production Value by Type (2027-2032) & (USD Million)

Table 52. World Automotive Aluminum Alloy Piston Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Automotive Aluminum Alloy Piston Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Automotive Aluminum Alloy Piston Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive Aluminum Alloy Piston Production by Sales Channel (2021-2026) & (K Units)

Table 56. World Automotive Aluminum Alloy Piston Production by Sales Channel (2027-2032) & (K Units)

Table 57. World Automotive Aluminum Alloy Piston Production Value by Sales Channel (2021-2026) & (USD Million)

Table 58. World Automotive Aluminum Alloy Piston Production Value by Sales Channel (2027-2032) & (USD Million)

Table 59. World Automotive Aluminum Alloy Piston Average Price by Sales Channel (2021-2026) & (US\$/Unit)

Table 60. World Automotive Aluminum Alloy Piston Average Price by Sales Channel (2027-2032) & (US\$/Unit)

Table 61. World Automotive Aluminum Alloy Piston Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive Aluminum Alloy Piston Production by Application (2021-2026) & (K Units)

Table 63. World Automotive Aluminum Alloy Piston Production by Application (2027-2032) & (K Units)

Table 64. World Automotive Aluminum Alloy Piston Production Value by Application (2021-2026) & (USD Million)

Table 65. World Automotive Aluminum Alloy Piston Production Value by Application (2027-2032) & (USD Million)

Table 66. World Automotive Aluminum Alloy Piston Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Automotive Aluminum Alloy Piston Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Mahle Group Basic Information, Manufacturing Base and Competitors

Table 69. Mahle Group Major Business

Table 70. Mahle Group Automotive Aluminum Alloy Piston Product and Services

Table 71. Mahle Group Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Mahle Group Recent Developments/Updates

Table 73. Mahle Group Competitive Strengths & Weaknesses

Table 74. Kolbenschmidt Basic Information, Manufacturing Base and Competitors

Table 75. Kolbenschmidt Major Business

Table 76. Kolbenschmidt Automotive Aluminum Alloy Piston Product and Services

Table 77. Kolbenschmidt Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Kolbenschmidt Recent Developments/Updates

Table 79. Kolbenschmidt Competitive Strengths & Weaknesses

Table 80. Tenneco Basic Information, Manufacturing Base and Competitors

Table 81. Tenneco Major Business

Table 82. Tenneco Automotive Aluminum Alloy Piston Product and Services

Table 83. Tenneco Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Tenneco Recent Developments/Updates

- Table 85. Tenneco Competitive Strengths & Weaknesses
- Table 86. Aisin Basic Information, Manufacturing Base and Competitors
- Table 87. Aisin Major Business
- Table 88. Aisin Automotive Aluminum Alloy Piston Product and Services
- Table 89. Aisin Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Aisin Recent Developments/Updates
- Table 91. Aisin Competitive Strengths & Weaknesses
- Table 92. Dong Yang Piston Basic Information, Manufacturing Base and Competitors
- Table 93. Dong Yang Piston Major Business
- Table 94. Dong Yang Piston Automotive Aluminum Alloy Piston Product and Services
- Table 95. Dong Yang Piston Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Dong Yang Piston Recent Developments/Updates
- Table 97. Dong Yang Piston Competitive Strengths & Weaknesses
- Table 98. Binzhou Bohai Piston Basic Information, Manufacturing Base and Competitors
- Table 99. Binzhou Bohai Piston Major Business
- Table 100. Binzhou Bohai Piston Automotive Aluminum Alloy Piston Product and Services
- Table 101. Binzhou Bohai Piston Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Binzhou Bohai Piston Recent Developments/Updates
- Table 103. Binzhou Bohai Piston Competitive Strengths & Weaknesses
- Table 104. Shriram Pistons & Rings Basic Information, Manufacturing Base and Competitors
- Table 105. Shriram Pistons & Rings Major Business
- Table 106. Shriram Pistons & Rings Automotive Aluminum Alloy Piston Product and Services
- Table 107. Shriram Pistons & Rings Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Shriram Pistons & Rings Recent Developments/Updates
- Table 109. Shriram Pistons & Rings Competitive Strengths & Weaknesses
- Table 110. Astemo Basic Information, Manufacturing Base and Competitors
- Table 111. Astemo Major Business

- Table 112. Astemo Automotive Aluminum Alloy Piston Product and Services
- Table 113. Astemo Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. Astemo Recent Developments/Updates
- Table 115. Astemo Competitive Strengths & Weaknesses
- Table 116. Honda Foundry Basic Information, Manufacturing Base and Competitors
- Table 117. Honda Foundry Major Business
- Table 118. Honda Foundry Automotive Aluminum Alloy Piston Product and Services
- Table 119. Honda Foundry Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. Honda Foundry Recent Developments/Updates
- Table 121. Honda Foundry Competitive Strengths & Weaknesses
- Table 122. Jiangbin Machinery Basic Information, Manufacturing Base and Competitors
- Table 123. Jiangbin Machinery Major Business
- Table 124. Jiangbin Machinery Automotive Aluminum Alloy Piston Product and Services
- Table 125. Jiangbin Machinery Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. Jiangbin Machinery Recent Developments/Updates
- Table 127. Jiangbin Machinery Competitive Strengths & Weaknesses
- Table 128. Shangdong Shuanggang Piston Basic Information, Manufacturing Base and Competitors
- Table 129. Shangdong Shuanggang Piston Major Business
- Table 130. Shangdong Shuanggang Piston Automotive Aluminum Alloy Piston Product and Services
- Table 131. Shangdong Shuanggang Piston Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 132. Shangdong Shuanggang Piston Recent Developments/Updates
- Table 133. Shangdong Shuanggang Piston Competitive Strengths & Weaknesses
- Table 134. India Pistons Limited Basic Information, Manufacturing Base and Competitors
- Table 135. India Pistons Limited Major Business
- Table 136. India Pistons Limited Automotive Aluminum Alloy Piston Product and Services
- Table 137. India Pistons Limited Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 138. India Pistons Limited Recent Developments/Updates

Table 139. India Pistons Limited Competitive Strengths & Weaknesses

Table 140. Jialaidun Basic Information, Manufacturing Base and Competitors

Table 141. Jialaidun Major Business

Table 142. Jialaidun Automotive Aluminum Alloy Piston Product and Services

Table 143. Jialaidun Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Jialaidun Recent Developments/Updates

Table 145. Jialaidun Competitive Strengths & Weaknesses

Table 146. Yenmak Basic Information, Manufacturing Base and Competitors

Table 147. Yenmak Major Business

Table 148. Yenmak Automotive Aluminum Alloy Piston Product and Services

Table 149. Yenmak Automotive Aluminum Alloy Piston Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Yenmak Recent Developments/Updates

Table 151. Yenmak Competitive Strengths & Weaknesses

Table 152. Global Key Players of Automotive Aluminum Alloy Piston Upstream (Raw Materials)

Table 153. Global Automotive Aluminum Alloy Piston Typical Customers

Table 154. Automotive Aluminum Alloy Piston Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Aluminum Alloy Piston Picture

Figure 2. World Automotive Aluminum Alloy Piston Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automotive Aluminum Alloy Piston Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 5. World Automotive Aluminum Alloy Piston Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automotive Aluminum Alloy Piston Production Value Market Share by Region (2021-2032)

Figure 7. World Automotive Aluminum Alloy Piston Production Market Share by Region (2021-2032)

Figure 8. North America Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 9. Europe Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 10. China Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 11. Japan Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 12. South Korea Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 13. India Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 14. Mexico Automotive Aluminum Alloy Piston Production (2021-2032) & (K Units)

Figure 15. Automotive Aluminum Alloy Piston Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Figure 18. World Automotive Aluminum Alloy Piston Consumption Market Share by Region (2021-2032)

Figure 19. United States Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Figure 20. China Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Figure 21. Europe Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Figure 22. Japan Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Units)

Figure 23. South Korea Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Figure 25. India Automotive Aluminum Alloy Piston Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Automotive Aluminum Alloy Piston by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Automotive Aluminum Alloy Piston Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Automotive Aluminum Alloy Piston Markets in 2025

Figure 29. United States VS China: Automotive Aluminum Alloy Piston Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Automotive Aluminum Alloy Piston Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Automotive Aluminum Alloy Piston Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Automotive Aluminum Alloy Piston Production Market Share 2025

Figure 33. China Based Manufacturers Automotive Aluminum Alloy Piston Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Automotive Aluminum Alloy Piston Production Market Share 2025

Figure 35. World Automotive Aluminum Alloy Piston Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Automotive Aluminum Alloy Piston Production Value Market Share by Type in 2025

Figure 37. Cast Aluminum Alloy Pistons

Figure 38. Forged Aluminum Alloy Pistons

Figure 39. World Automotive Aluminum Alloy Piston Production Market Share by Type (2021-2032)

Figure 40. World Automotive Aluminum Alloy Piston Production Value Market Share by Type (2021-2032)

Figure 41. World Automotive Aluminum Alloy Piston Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Automotive Aluminum Alloy Piston Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Figure 43. World Automotive Aluminum Alloy Piston Production Value Market Share by Sales Channel in 2025

Figure 44. OEM

Figure 45. Aftermarket

Figure 46. World Automotive Aluminum Alloy Piston Production Market Share by Sales Channel (2021-2032)

Figure 47. World Automotive Aluminum Alloy Piston Production Value Market Share by Sales Channel (2021-2032)

Figure 48. World Automotive Aluminum Alloy Piston Average Price by Sales Channel (2021-2032) & (US\$/Unit)

Figure 49. World Automotive Aluminum Alloy Piston Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Automotive Aluminum Alloy Piston Production Value Market Share by Application in 2025

Figure 51. Passenger Car

Figure 52. Commercial Vehicle

Figure 53. World Automotive Aluminum Alloy Piston Production Market Share by Application (2021-2032)

Figure 54. World Automotive Aluminum Alloy Piston Production Value Market Share by Application (2021-2032)

Figure 55. World Automotive Aluminum Alloy Piston Average Price by Application (2021-2032) & (US\$/Unit)

Figure 56. Automotive Aluminum Alloy Piston Industry Chain

Figure 57. Automotive Aluminum Alloy Piston Procurement Model

Figure 58. Automotive Aluminum Alloy Piston Sales Model

Figure 59. Automotive Aluminum Alloy Piston Sales Channels, Direct Sales, and Distribution

Figure 60. Methodology

Figure 61. Research Process and Data Source

I would like to order

Product name: Global Automotive Aluminum Alloy Piston Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G49A9700DBDBEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G49A9700DBDBEN.html>