

Aluminum Component Forging Market – Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Forging Type (Open Die Forging, Close Die Forging, And Ring Rolled Forging), By Component Type (Transmission Parts, Steering Parts, Others), By Vehicle Type (Passenger Cars, Commercial Vehicles), By Region and By Competition 2021-2031F

<https://marketpublishers.com/r/AB1C065D59A9EN.html>

Date: January 2026

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: AB1C065D59A9EN

Abstracts

The Global Aluminum Component Forging Market will grow from USD 28.22 Billion in 2025 to USD 39.49 Billion by 2031 at a 5.76% CAGR. Aluminum component forging is a specialized manufacturing process wherein aluminum alloys are shaped under extreme compressive forces to produce high-strength, lightweight parts with superior structural integrity compared to cast alternatives.

Key Market Drivers

The rapid proliferation of electric vehicles (EVs) and the escalating demand for vehicle lightweighting are the primary economic forces accelerating the adoption of aluminum forgings. Automotive original equipment manufacturers are increasingly replacing heavy steel components with forged aluminum to offset the substantial mass of battery packs and maximize driving range without compromising safety. This transition is technically critical for chassis and suspension applications, where the superior strength-to-weight ratio of forged aluminum ensures structural durability under dynamic loads.

Key Market Challenges

The volatility of raw material prices and energy costs stands as a substantial barrier impeding the growth of the Global Aluminum Component Forging Market. This financial unpredictability directly affects the operational stability of forging manufacturers, who rely heavily on energy-intensive processes to shape high-strength alloys. When input costs fluctuate sharply, manufacturers face eroded profit margins and difficulty in securing long-term pricing agreements with automotive and aerospace clients. This instability often forces producers to absorb cost increases or pass them downstream, which can dampen demand for forged components in cost-sensitive applications.

Key Market Trends

The Implementation of Sustainable and Circular Economy Practices is reshaping the forging landscape as manufacturers prioritize closed-loop recycling systems to lower carbon footprints and secure raw material stability. Forging companies are increasingly integrating secondary aluminum feedstock into their production streams to meet stringent OEM decarbonization mandates while mitigating the risks of primary metal price volatility. This shift towards circularity involves significant infrastructure upgrades to process scrap without compromising the structural integrity of the final forged components.

Key Market Players

Accurate Steel Forgings (INDIA) Limited

AICHI STEEL CORPORATION

Alcoa Corporation

Aluminum Precision Products

Anderson Shumaker Company

Arconic Inc

Bharat Forge Limited

Ellwood Group Inc.

Kalyani Technoforge

Kobe Steel, Ltd.

Report Scope:

In this report, the Global Aluminum Component Forging Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Aluminum Component Forging Market, By Forging Type:

Open Die Forging

Close Die Forging

Ring Rolled Forging

Aluminum Component Forging Market, By Component Type:

Transmission Parts

Steering Parts

Others

Aluminum Component Forging Market, By Vehicle Type:

Passenger Cars

Commercial Vehicles

Aluminum Component Forging Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Aluminum Component Forging Market.

Available Customizations:

Global Aluminum Component Forging Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL ALUMINUM COMPONENT FORGING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Forging Type (Open Die Forging, Close Die Forging, Ring Rolled Forging)
 - 5.2.2. By Component Type (Transmission Parts, Steering Parts, Others)
 - 5.2.3. By Vehicle Type (Passenger Cars, Commercial Vehicles)
 - 5.2.4. By Region

5.2.5. By Company (2025)

5.3. Market Map

6. NORTH AMERICA ALUMINUM COMPONENT FORGING MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Forging Type

6.2.2. By Component Type

6.2.3. By Vehicle Type

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Aluminum Component Forging Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Forging Type

6.3.1.2.2. By Component Type

6.3.1.2.3. By Vehicle Type

6.3.2. Canada Aluminum Component Forging Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Forging Type

6.3.2.2.2. By Component Type

6.3.2.2.3. By Vehicle Type

6.3.3. Mexico Aluminum Component Forging Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Forging Type

6.3.3.2.2. By Component Type

6.3.3.2.3. By Vehicle Type

7. EUROPE ALUMINUM COMPONENT FORGING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

- 7.2. Market Share & Forecast
 - 7.2.1. By Forging Type
 - 7.2.2. By Component Type
 - 7.2.3. By Vehicle Type
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Aluminum Component Forging Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Forging Type
 - 7.3.1.2.2. By Component Type
 - 7.3.1.2.3. By Vehicle Type
 - 7.3.2. France Aluminum Component Forging Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Forging Type
 - 7.3.2.2.2. By Component Type
 - 7.3.2.2.3. By Vehicle Type
 - 7.3.3. United Kingdom Aluminum Component Forging Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Forging Type
 - 7.3.3.2.2. By Component Type
 - 7.3.3.2.3. By Vehicle Type
 - 7.3.4. Italy Aluminum Component Forging Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Forging Type
 - 7.3.4.2.2. By Component Type
 - 7.3.4.2.3. By Vehicle Type
 - 7.3.5. Spain Aluminum Component Forging Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Forging Type

7.3.5.2.2. By Component Type

7.3.5.2.3. By Vehicle Type

8. ASIA PACIFIC ALUMINUM COMPONENT FORGING MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Forging Type

8.2.2. By Component Type

8.2.3. By Vehicle Type

8.2.4. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Aluminum Component Forging Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Forging Type

8.3.1.2.2. By Component Type

8.3.1.2.3. By Vehicle Type

8.3.2. India Aluminum Component Forging Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Forging Type

8.3.2.2.2. By Component Type

8.3.2.2.3. By Vehicle Type

8.3.3. Japan Aluminum Component Forging Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Forging Type

8.3.3.2.2. By Component Type

8.3.3.2.3. By Vehicle Type

8.3.4. South Korea Aluminum Component Forging Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Forging Type

- 8.3.4.2.2. By Component Type
- 8.3.4.2.3. By Vehicle Type
- 8.3.5. Australia Aluminum Component Forging Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Forging Type
 - 8.3.5.2.2. By Component Type
 - 8.3.5.2.3. By Vehicle Type

9. MIDDLE EAST & AFRICA ALUMINUM COMPONENT FORGING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Forging Type
 - 9.2.2. By Component Type
 - 9.2.3. By Vehicle Type
 - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Aluminum Component Forging Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Forging Type
 - 9.3.1.2.2. By Component Type
 - 9.3.1.2.3. By Vehicle Type
 - 9.3.2. UAE Aluminum Component Forging Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Forging Type
 - 9.3.2.2.2. By Component Type
 - 9.3.2.2.3. By Vehicle Type
 - 9.3.3. South Africa Aluminum Component Forging Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast

- 9.3.3.2.1. By Forging Type
- 9.3.3.2.2. By Component Type
- 9.3.3.2.3. By Vehicle Type

10. SOUTH AMERICA ALUMINUM COMPONENT FORGING MARKET OUTLOOK

10.1. Market Size & Forecast

- 10.1.1. By Value

10.2. Market Share & Forecast

- 10.2.1. By Forging Type
- 10.2.2. By Component Type
- 10.2.3. By Vehicle Type
- 10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Aluminum Component Forging Market Outlook

10.3.1.1. Market Size & Forecast

- 10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Forging Type
- 10.3.1.2.2. By Component Type
- 10.3.1.2.3. By Vehicle Type

10.3.2. Colombia Aluminum Component Forging Market Outlook

10.3.2.1. Market Size & Forecast

- 10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

- 10.3.2.2.1. By Forging Type
- 10.3.2.2.2. By Component Type
- 10.3.2.2.3. By Vehicle Type

10.3.3. Argentina Aluminum Component Forging Market Outlook

10.3.3.1. Market Size & Forecast

- 10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

- 10.3.3.2.1. By Forging Type
- 10.3.3.2.2. By Component Type
- 10.3.3.2.3. By Vehicle Type

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. GLOBAL ALUMINUM COMPONENT FORGING MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. Accurate Steel Forgings (INDIA) Limited

15.1.1. Business Overview

15.1.2. Products & Services

15.1.3. Recent Developments

15.1.4. Key Personnel

15.1.5. SWOT Analysis

15.2. AICHI STEEL CORPORATION

15.3. Alcoa Corporation

15.4. Aluminum Precision Products

15.5. Anderson Shumaker Company

15.6. Arconic Inc

15.7. Bharat Forge Limited

15.8. Ellwood Group Inc.

15.9. Kalyani Technoforge

15.10. Kobe Steel, Ltd.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Aluminum Component Forging Market – Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Forging Type (Open Die Forging, Close Die Forging, And Ring Rolled Forging), By Component Type (Transmission Parts, Steering Parts, Others), By Vehicle Type (Passenger Cars, Commercial Vehicles), By Region and By Competition 2021-2031F

Product link: <https://marketpublishers.com/r/AB1C065D59A9EN.html>

Price: US\$ 4,500.00 (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/AB1C065D59A9EN.html>