

South Korea Automotive Parts Aluminium Die Casting Market Report by Production Process Type (Pressure Die Casting, Vacuum Die Casting, Squeeze Die Casting, Semi-Solid Die Casting), Application Type (Body Assembly, Engine Parts, Transmission Parts, and Others), and Region 2026-2034

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Abstracts

South Korea automotive parts aluminium die casting market size reached USD 621.9 Million in 2025. Looking forward, IMARC Group expects the market to reach USD 1,611.9 Million by 2034, exhibiting a growth rate (CAGR) of 11.16% during 2026-2034 . The expanding automotive industry, shifting focus on lightweight materials and environmental sustainability, rapid technological advancements, the growing demand for electric vehicle (EV), and the increasing diversification into non-automotive applications represent some of the factors bolstering the market growth.

Automotive parts aluminium die casting is a manufacturing process used in the automotive industry to produce high-precision components made from aluminum alloys. This process involves injecting molten aluminium into a pre-designed mold, known as a die, at high pressures. The aluminium solidifies within the mold cavity, taking its precise shape. The uses of automotive parts aluminium die casting are diverse and encompass a wide range of components within vehicles, including engine blocks, transmission cases, wheels, and various structural elements. The benefits of this approach become apparent through its capacity to manufacture components with decreased machining needs, thereby reducing both waste and production expenses. Furthermore, aluminium's lightweight properties contribute to improved fuel efficiency in vehicles. In terms of types, there are two primary categories of aluminium die casting: hot chamber and cold chamber .

SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET TRENDS:

The South Korea automotive parts aluminium die casting market is influenced by several key drivers, such as the country's thriving automotive industry. South Korea has a well-established automotive sector, which has led to a consistent demand for high-quality aluminum die-cast parts in the manufacturing process. Furthermore, the growing emphasis on lightweighting in the automotive industry is another significant factor driving the market. Aluminium die casting offers a lightweight yet durable solution, making it ideal for applications where weight reduction is essential for fuel efficiency and performance enhancement. Additionally, the increasing focus on environmental sustainability and government regulations promoting eco-friendly practices are providing a positive environment for the market growth. This is further supported by the increasing consumer demand for advanced and technologically sophisticated vehicles, where aluminium die-cast parts play a crucial role in enhancing performance and safety. Moreover, the growing trend of electric vehicles (EVs) and the advancements in die casting technology are contributing to the market growth. Modern die casting methods are more efficient and precise, reducing production costs and enhancing the quality of parts. In line with this, the expanding export opportunities for South Korean automotive parts, the widespread adoption of aluminium die casting in non-automotive applications, such as aerospace and consumer electronics, and the increasing availability of skilled labor and a robust manufacturing infrastructure are fostering the market growth across the country.

SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country level for 2026-2034. Our report has categorized the market based on production process type and application type.

Production Process Type Insights:

Pressure Die Casting

Vacuum Die Casting

Squeeze Die Casting

Semi-Solid Die Casting

The report has provided a detailed breakup and analysis of the market based on the production process type. This includes pressure die casting, vacuum die casting, squeeze die casting, and semi-solid die casting.

Application Type Insights:

Body Assembly

Engine Parts

Transmission Parts

Others

A detailed breakup and analysis of the market based on the application type have also been provided in the report. This includes body assembly, engine parts, transmission parts, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea automotive parts aluminium die casting market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the South Korea automotive parts aluminium die casting market?

What is the breakup of the South Korea automotive parts aluminium die casting market on the basis of production process type?

What is the breakup of the South Korea automotive parts aluminium die casting market on the basis of application type?

What are the various stages in the value chain of the South Korea automotive parts aluminium die casting market?

What are the key driving factors and challenges in the South Korea automotive parts aluminium die casting?

What is the structure of the South Korea automotive parts aluminium die casting market and who are the key players?

What is the degree of competition in the South Korea automotive parts aluminium die casting market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (?2020-2025?)
- 5.2 Market Forecast (?2026-2034?)

6 SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET - BREAKUP BY PRODUCTION PROCESS TYPE

- 6.1 Pressure Die Casting
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (?2020-2025?)
 - 6.1.3 Market Forecast (?2026-2034?)

6.2 Vacuum Die Casting

6.2.1 Overview

6.2.2 Historical and Current Market Trends (?2020-2025?)

6.2.3 Market Forecast (?2026-2034?)

6.3 Squeeze Die Casting

6.3.1 Overview

6.3.2 Historical and Current Market Trends (?2020-2025?)

6.3.3 Market Forecast (?2026-2034?)

6.4 Semi-Solid Die Casting

6.4.1 Overview

6.4.2 Historical and Current Market Trends (?2020-2025?)

6.4.3 Market Forecast (?2026-2034?)

7 SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET - BREAKUP BY APPLICATION TYPE

7.1 Body Assembly

7.1.1 Overview

7.1.2 Historical and Current Market Trends (?2020-2025?)

7.1.3 Market Forecast (?2026-2034?)

7.2 Engine Parts

7.2.1 Overview

7.2.2 Historical and Current Market Trends (?2020-2025?)

7.2.3 Market Forecast (?2026-2034?)

7.3 Transmission Parts

7.3.1 Overview

7.3.2 Historical and Current Market Trends (?2020-2025?)

7.3.3 Market Forecast (?2026-2034?)

7.4 Others

7.4.1 Historical and Current Market Trends (?2020-2025?)

7.4.2 Market Forecast (?2026-2034?)

8 SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET – BREAKUP BY REGION

8.1 Seoul Capital Area

8.1.1 Overview

8.1.2 Historical and Current Market Trends (?2020-2025?)

8.1.3 Market Breakup by Production Process Type

- 8.1.4 Market Breakup by Application Type
- 8.1.5 Key Players
- 8.1.6 Market Forecast (?2026-2034?)
- 8.2 Yeongnam (Southeastern Region)
 - 8.2.1 Overview
 - 8.2.2 Historical and Current Market Trends (?2020-2025?)
 - 8.2.3 Market Breakup by Production Process Type
 - 8.2.4 Market Breakup by Application Type
 - 8.2.5 Key Players
 - 8.2.6 Market Forecast (?2026-2034?)
- 8.3 Honam (Southwestern Region)
 - 8.3.1 Overview
 - 8.3.2 Historical and Current Market Trends (?2020-2025?)
 - 8.3.3 Market Breakup by Production Process Type
 - 8.3.4 Market Breakup by Application Type
 - 8.3.5 Key Players
 - 8.3.6 Market Forecast (?2026-2034?)
- 8.4 Hoseo (Central Region)
 - 8.4.1 Overview
 - 8.4.2 Historical and Current Market Trends (?2020-2025?)
 - 8.4.3 Market Breakup by Production Process Type
 - 8.4.4 Market Breakup by Application Type
 - 8.4.5 Key Players
 - 8.4.6 Market Forecast (?2026-2034?)
- 8.5 Others
 - 8.5.1 Historical and Current Market Trends (?2020-2025?)
 - 8.5.2 Market Forecast (?2026-2034?)

9 SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET – COMPETITIVE LANDSCAPE

- 9.1 Overview
- 9.2 Market Structure
- 9.3 Market Player Positioning
- 9.4 Top Winning Strategies
- 9.5 Competitive Dashboard
- 9.6 Company Evaluation Quadrant

10 PROFILES OF KEY PLAYERS

10.1 Company A

10.1.1 Business Overview

10.1.2 Services Offered

10.1.3 Business Strategies

10.1.4 SWOT Analysis

10.1.5 Major News and Events

10.2 Company B

10.2.1 Business Overview

10.2.2 Services Offered

10.2.3 Business Strategies

10.2.4 SWOT Analysis

10.2.5 Major News and Events

10.3 Company C

10.3.1 Business Overview

10.3.2 Services Offered

10.3.3 Business Strategies

10.3.4 SWOT Analysis

10.3.5 Major News and Events

10.4 Company D

10.4.1 Business Overview

10.4.2 Services Offered

10.4.3 Business Strategies

10.4.4 SWOT Analysis

10.4.5 Major News and Events

10.5 Company E

10.5.1 Business Overview

10.5.2 Services Offered

10.5.3 Business Strategies

10.5.4 SWOT Analysis

10.5.5 Major News and Events

11 SOUTH KOREA AUTOMOTIVE PARTS ALUMINIUM DIE CASTING MARKET - INDUSTRY ANALYSIS

11.1 Drivers, Restraints, and Opportunities

11.1.1 Overview

11.1.2 Drivers

11.1.3 Restraints

11.1.4 Opportunities

11.2 Porters Five Forces Analysis

11.2.1 Overview

11.2.2 Bargaining Power of Buyers

11.2.3 Bargaining Power of Suppliers

11.2.4 Degree of Competition

11.2.5 Threat of New Entrants

11.2.6 Threat of Substitutes

11.3 Value Chain Analysis

12 APPENDIX

I would like to order

Product name: South Korea Automotive Parts Aluminium Die Casting Market Report by Production Process Type (Pressure Die Casting, Vacuum Die Casting, Squeeze Die Casting, Semi-Solid Die Casting), Application Type (Body Assembly, Engine Parts, Transmission Parts, and Others), and Region 2026-2034

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