

Global Automotive Camera Cleaning Air Pump Market Growth 2026-2032

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Abstracts

The global Automotive Camera Cleaning Air Pump market size is predicted to grow from US\$ 43.71 million in 2025 to US\$ 181 million in 2032; it is expected to grow at a CAGR of 21.1% from 2026 to 2032.

Automotive camera cleaning air pumps are miniature electric automotive pumps installed in passenger cars, commercial vehicles, autonomous vehicles, and other intelligent mobility platforms. They mainly provide the compressed air, vapor flow, or pneumatic power required for air and liquid combined cleaning of exterior cameras and visual sensors used in advanced driver assistance systems. These products use an electric motor to drive a diaphragm, piston, impeller, or vapor generation mechanism to create stable air pressure. High speed airflow is then delivered through air lines, distribution valves, and nozzles to the protective surface of the camera lens to remove raindrops, loose dust, snow, and particulate matter, or to rapidly eliminate residual water films after liquid washing and maintain a clear sensor field of view. The research scope mainly covers independent miniature air pumps, electric vapor pumps, centralized air supply pumps, and the air pump unit integrated into air and liquid cleaning modules.

The product typically consists of a direct current motor, pump chamber, diaphragm or impeller, air inlet and outlet interfaces, vibration damping structure, sealing components, electrical connectors, and control circuitry. High end models may incorporate brushless direct current motors, pressure feedback, temperature protection, stall protection, fault diagnosis, and on demand start and stop functions. Manufacturing processes include precision injection molding, miniature motor manufacturing, diaphragm forming, valve plate assembly, airtightness testing, flow calibration, noise control, and automotive environmental reliability validation. Key specifications include rated voltage, outlet pressure, airflow, startup response time, operating noise, power consumption,

dimensions, weight, operating temperature, ingress protection rating, electromagnetic compatibility, and cycle life.

Automotive camera cleaning air pumps are mainly used for forward facing cameras, rear cameras, surround view cameras, digital mirror cameras, night vision cameras, and multisensor cleaning systems for autonomous driving. Their core function is to improve the availability of visual perception under rain, snow, muddy water, dust, salt spray, and low temperature conditions. Demand is closely linked to the development of advanced driver assistance functions, higher levels of automated driving, robotaxis, and autonomous delivery vehicles. Under the narrow scope adopted in this report, global sales of automotive camera cleaning air pumps reached approximately 1.24 million units in 2025. The industry average price was approximately USD 30 to USD 45 per unit, and the industry average gross margin was approximately 28 percent to 36 percent.

The upstream value chain of automotive camera cleaning air pumps consists mainly of miniature direct current motors, diaphragms, pistons, impellers, engineering plastics, elastomer seals, pressure sensors, control semiconductors, electrical connectors, and precision tooling. Midstream activities cover pump architecture design, motor and pump chamber matching, pneumatic channel development, electronic control integration, acoustic optimization, airtightness inspection, airflow calibration, and automotive reliability validation. Downstream customers include vehicle manufacturers, automotive vision system suppliers, sensor cleaning system integrators, and autonomous mobility operators. The core value of the industry lies in high pressure density, low operating noise, rapid response, reliable cold starting, long service life, and stable performance under vibration, temperature changes, moisture, dust, and other demanding vehicle conditions. As product requirements increase, suppliers must combine mechanical pump design with motor control, fluid management, diagnostic functions, and vehicle system calibration rather than relying on conventional miniature pump assembly alone.

The global supply structure is characterized by stronger system development and premium vehicle program capabilities in Europe, accelerating commercialization in China, and broader participation through automotive electronics and vehicle supply chains in Japan and North America. European suppliers have accumulated experience in brushless high pressure pumps, electric vapor pumps, centralized pneumatic supply, and coordinated cleaning of several optical sensors. Chinese manufacturers are building on established capabilities in miniature motors, automotive washer pumps, precision plastic molding, and automated assembly, while gradually moving active perception cleaning products from samples and road testing into small volume and

series production programs. Consolidation within the automotive electronics industry is also reshaping the competitive landscape by combining camera technology, actuators, fluid control, and cleaning components within larger supplier groups. Competition is therefore shifting from standalone pump supply toward coordinated development of pumps, valves, hoses, nozzles, control electronics, and vehicle software.

Current demand is concentrated in premium intelligent passenger cars, highly automated vehicles, robotaxis, autonomous delivery vehicles, and other mobility platforms that require continuous visual sensor availability. Pneumatic cleaning is particularly suitable for removing raindrops, loose dust, light snow, particulate matter, and residual water films after liquid washing. Electric vapor technologies can additionally support rapid drying and low temperature defrosting, while combined air and liquid cleaning provides stronger performance against mud, road salt, insects, and other firmly attached contamination. A centralized pump may distribute airflow to several cameras through manifolds, valves, and dedicated air lines, so market demand depends on the overall vehicle cleaning architecture, the number of cleaning zones, and the required level of driving automation. The number of cameras installed in a vehicle cannot therefore be directly converted into the number of air pumps required, especially as centralized and modular cleaning architectures become more common.

The policy and regulatory environment is indirectly supporting the development of automotive camera cleaning air pumps. Wider deployment of advanced driver assistance functions, road access programs for automated vehicles, and greater attention to functional safety are increasing the importance of maintaining reliable camera performance under rain, snow, dust, road spray, and low temperature conditions. The industry remains in a transition from vehicle program development toward broader series production, with near term expansion driven mainly by new platform nominations, investment in dedicated production lines, and the commercialization of autonomous mobility fleets. Over the longer term, air pumps will compete and cooperate with liquid washing, centrifugal water removal, heating, ultrasonic cleaning, protective covers, and self cleaning surface technologies. Products that can deliver effective cleaning with lower energy consumption, reduced noise, reliable diagnostics, limited fluid use, and a lower total vehicle system cost are likely to secure the most sustainable program positions.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Automotive Camera Cleaning Air Pump Industry Forecast" looks at past sales and reviews total world Automotive

Camera Cleaning Air Pump sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Camera Cleaning Air Pump sales for 2026 through 2032. With Automotive Camera Cleaning Air Pump sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Camera Cleaning Air Pump industry.

This Insight Report provides a comprehensive analysis of the global Automotive Camera Cleaning Air Pump landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Camera Cleaning Air Pump portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Camera Cleaning Air Pump market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Camera Cleaning Air Pump and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Camera Cleaning Air Pump.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Camera Cleaning Air Pump market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Brushed DC Motor Pumps

Brushless DC Motor Pumps

Others

Segmentation by Air Generation Technology:

Diaphragm Air Pumps

Piston Air Pumps

Rotary and Impeller Air Pumps

Electric Vapor Pumps

Others

Segmentation by Air Supply Architecture:

Dedicated Single Point Supply

Centralized Multi Point Supply

Others

Segmentation by Rated Voltage:

12 V Air Pumps

24 V Air Pumps

Others

Segmentation by Application:

Passenger Vehicles

Light Commercial Vehicles

Medium and Heavy Trucks

Buses

Special-Purpose Vehicles

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Rheinmetall AG (Pierburg)

Ningbo Hengshuai Co., Ltd.

Kautex Textron GmbH & Co. KG

Ficosa International, S.A.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Camera Cleaning Air Pump market?

What factors are driving Automotive Camera Cleaning Air Pump market growth,

globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Camera Cleaning Air Pump market opportunities vary by end market size?

How does Automotive Camera Cleaning Air Pump break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Automotive Camera Cleaning Air Pump Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Automotive Camera Cleaning Air Pump by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Automotive Camera Cleaning Air Pump by Country/Region, 2021, 2025 & 2032
- 2.2 Automotive Camera Cleaning Air Pump Segment by Type
 - 2.2.1 Brushed DC Motor Pumps
 - 2.2.2 Brushless DC Motor Pumps
 - 2.2.3 Others
 - 2.2.4 Automotive Camera Cleaning Air Pump Sales by Type
 - 2.2.4.1 Global Automotive Camera Cleaning Air Pump Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Automotive Camera Cleaning Air Pump Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Automotive Camera Cleaning Air Pump Sale Price by Type (2021-2026)
- 2.3 Automotive Camera Cleaning Air Pump Segment by Air Generation Technology
 - 2.3.1 Diaphragm Air Pumps
 - 2.3.2 Piston Air Pumps
 - 2.3.3 Rotary and Impeller Air Pumps
 - 2.3.4 Electric Vapor Pumps
 - 2.3.5 Others
 - 2.3.6 Automotive Camera Cleaning Air Pump Sales by Air Generation Technology

2.3.6.1 Global Automotive Camera Cleaning Air Pump Sales Market Share by Air Generation Technology (2021-2026)

2.3.6.2 Global Automotive Camera Cleaning Air Pump Revenue and Market Share by Air Generation Technology (2021-2026)

2.3.6.3 Global Automotive Camera Cleaning Air Pump Sale Price by Air Generation Technology (2021-2026)

2.4 Automotive Camera Cleaning Air Pump Segment by Air Supply Architecture

2.4.1 Dedicated Single Point Supply

2.4.2 Centralized Multi Point Supply

2.4.3 Others

2.4.4 Automotive Camera Cleaning Air Pump Sales by Air Supply Architecture

2.4.4.1 Global Automotive Camera Cleaning Air Pump Sales Market Share by Air Supply Architecture (2021-2026)

2.4.4.2 Global Automotive Camera Cleaning Air Pump Revenue and Market Share by Air Supply Architecture (2021-2026)

2.4.4.3 Global Automotive Camera Cleaning Air Pump Sale Price by Air Supply Architecture (2021-2026)

2.5 Automotive Camera Cleaning Air Pump Segment by Rated Voltage

2.5.1 12 V Air Pumps

2.5.2 24 V Air Pumps

2.5.3 Others

2.5.4 Automotive Camera Cleaning Air Pump Sales by Rated Voltage

2.5.4.1 Global Automotive Camera Cleaning Air Pump Sales Market Share by Rated Voltage (2021-2026)

2.5.4.2 Global Automotive Camera Cleaning Air Pump Revenue and Market Share by Rated Voltage (2021-2026)

2.5.4.3 Global Automotive Camera Cleaning Air Pump Sale Price by Rated Voltage (2021-2026)

2.6 Automotive Camera Cleaning Air Pump Segment by Application

2.6.1 Passenger Vehicles

2.6.2 Light Commercial Vehicles

2.6.3 Medium and Heavy Trucks

2.6.4 Buses

2.6.5 Special-Purpose Vehicles

2.6.6 Others

2.6.7 Automotive Camera Cleaning Air Pump Sales by Application

2.6.7.1 Global Automotive Camera Cleaning Air Pump Sale Market Share by Application (2021-2026)

2.6.7.2 Global Automotive Camera Cleaning Air Pump Revenue and Market Share by

Application (2021-2026)

2.6.7.3 Global Automotive Camera Cleaning Air Pump Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Automotive Camera Cleaning Air Pump Breakdown Data by Company

3.1.1 Global Automotive Camera Cleaning Air Pump Annual Sales by Company (2021-2026)

3.1.2 Global Automotive Camera Cleaning Air Pump Sales Market Share by Company (2021-2026)

3.2 Global Automotive Camera Cleaning Air Pump Annual Revenue by Company (2021-2026)

3.2.1 Global Automotive Camera Cleaning Air Pump Revenue by Company (2021-2026)

3.2.2 Global Automotive Camera Cleaning Air Pump Revenue Market Share by Company (2021-2026)

3.3 Global Automotive Camera Cleaning Air Pump Sale Price by Company

3.4 Key Manufacturers Automotive Camera Cleaning Air Pump Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Automotive Camera Cleaning Air Pump Product Location Distribution

3.4.2 Players Automotive Camera Cleaning Air Pump Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE CAMERA CLEANING AIR PUMP BY GEOGRAPHIC REGION

4.1 World Historic Automotive Camera Cleaning Air Pump Market Size by Geographic Region (2021-2026)

4.1.1 Global Automotive Camera Cleaning Air Pump Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Automotive Camera Cleaning Air Pump Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Automotive Camera Cleaning Air Pump Market Size by

Country/Region (2021-2026)

4.2.1 Global Automotive Camera Cleaning Air Pump Annual Sales by Country/Region (2021-2026)

4.2.2 Global Automotive Camera Cleaning Air Pump Annual Revenue by Country/Region (2021-2026)

4.3 Americas Automotive Camera Cleaning Air Pump Sales Growth

4.4 APAC Automotive Camera Cleaning Air Pump Sales Growth

4.5 Europe Automotive Camera Cleaning Air Pump Sales Growth

4.6 Middle East & Africa Automotive Camera Cleaning Air Pump Sales Growth

5 AMERICAS

5.1 Americas Automotive Camera Cleaning Air Pump Sales by Country

5.1.1 Americas Automotive Camera Cleaning Air Pump Sales by Country (2021-2026)

5.1.2 Americas Automotive Camera Cleaning Air Pump Revenue by Country (2021-2026)

5.2 Americas Automotive Camera Cleaning Air Pump Sales by Type (2021-2026)

5.3 Americas Automotive Camera Cleaning Air Pump Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Automotive Camera Cleaning Air Pump Sales by Region

6.1.1 APAC Automotive Camera Cleaning Air Pump Sales by Region (2021-2026)

6.1.2 APAC Automotive Camera Cleaning Air Pump Revenue by Region (2021-2026)

6.2 APAC Automotive Camera Cleaning Air Pump Sales by Type (2021-2026)

6.3 APAC Automotive Camera Cleaning Air Pump Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Automotive Camera Cleaning Air Pump by Country

7.1.1 Europe Automotive Camera Cleaning Air Pump Sales by Country (2021-2026)

7.1.2 Europe Automotive Camera Cleaning Air Pump Revenue by Country
(2021-2026)

7.2 Europe Automotive Camera Cleaning Air Pump Sales by Type (2021-2026)

7.3 Europe Automotive Camera Cleaning Air Pump Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Camera Cleaning Air Pump by Country

8.1.1 Middle East & Africa Automotive Camera Cleaning Air Pump Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Automotive Camera Cleaning Air Pump Revenue by
Country (2021-2026)

8.2 Middle East & Africa Automotive Camera Cleaning Air Pump Sales by Type (2021-2026)

8.3 Middle East & Africa Automotive Camera Cleaning Air Pump Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

- 10.2 Manufacturing Cost Structure Analysis of Automotive Camera Cleaning Air Pump
- 10.3 Manufacturing Process Analysis of Automotive Camera Cleaning Air Pump
- 10.4 Industry Chain Structure of Automotive Camera Cleaning Air Pump

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Automotive Camera Cleaning Air Pump Distributors
- 11.3 Automotive Camera Cleaning Air Pump Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE CAMERA CLEANING AIR PUMP BY GEOGRAPHIC REGION

- 12.1 Global Automotive Camera Cleaning Air Pump Market Size Forecast by Region
 - 12.1.1 Global Automotive Camera Cleaning Air Pump Forecast by Region (2027-2032)
 - 12.1.2 Global Automotive Camera Cleaning Air Pump Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Automotive Camera Cleaning Air Pump Forecast by Type (2027-2032)
- 12.7 Global Automotive Camera Cleaning Air Pump Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Rheinmetall AG (Pierburg)
 - 13.1.1 Rheinmetall AG (Pierburg) Company Information
 - 13.1.2 Rheinmetall AG (Pierburg) Automotive Camera Cleaning Air Pump Product Portfolios and Specifications
 - 13.1.3 Rheinmetall AG (Pierburg) Automotive Camera Cleaning Air Pump Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Rheinmetall AG (Pierburg) Main Business Overview
 - 13.1.5 Rheinmetall AG (Pierburg) Latest Developments
- 13.2 Ningbo Hengshuai Co., Ltd.
 - 13.2.1 Ningbo Hengshuai Co., Ltd. Company Information

13.2.2 Ningbo Hengshuai Co., Ltd. Automotive Camera Cleaning Air Pump Product Portfolios and Specifications

13.2.3 Ningbo Hengshuai Co., Ltd. Automotive Camera Cleaning Air Pump Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Ningbo Hengshuai Co., Ltd. Main Business Overview

13.2.5 Ningbo Hengshuai Co., Ltd. Latest Developments

13.3 Kautex Textron GmbH & Co. KG

13.3.1 Kautex Textron GmbH & Co. KG Company Information

13.3.2 Kautex Textron GmbH & Co. KG Automotive Camera Cleaning Air Pump Product Portfolios and Specifications

13.3.3 Kautex Textron GmbH & Co. KG Automotive Camera Cleaning Air Pump Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Kautex Textron GmbH & Co. KG Main Business Overview

13.3.5 Kautex Textron GmbH & Co. KG Latest Developments

13.4 Ficos International, S.A.

13.4.1 Ficos International, S.A. Company Information

13.4.2 Ficos International, S.A. Automotive Camera Cleaning Air Pump Product Portfolios and Specifications

13.4.3 Ficos International, S.A. Automotive Camera Cleaning Air Pump Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Ficos International, S.A. Main Business Overview

13.4.5 Ficos International, S.A. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Automotive Camera Cleaning Air Pump Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Automotive Camera Cleaning Air Pump Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Brushed DC Motor Pumps

Table 4. Major Players of Brushless DC Motor Pumps

Table 5. Major Players of Others

Table 6. Global Automotive Camera Cleaning Air Pump Sales by Type (2021-2026) & (K Units)

Table 7. Global Automotive Camera Cleaning Air Pump Sales Market Share by Type (2021-2026)

Table 8. Global Automotive Camera Cleaning Air Pump Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Type (2021-2026)

Table 10. Global Automotive Camera Cleaning Air Pump Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Diaphragm Air Pumps

Table 12. Major Players of Piston Air Pumps

Table 13. Major Players of Rotary and Impeller Air Pumps

Table 14. Major Players of Electric Vapor Pumps

Table 15. Major Players of Others

Table 16. Global Automotive Camera Cleaning Air Pump Sales by Air Generation Technology (2021-2026) & (K Units)

Table 17. Global Automotive Camera Cleaning Air Pump Sales Market Share by Air Generation Technology (2021-2026)

Table 18. Global Automotive Camera Cleaning Air Pump Revenue by Air Generation Technology (2021-2026) & (\$ million)

Table 19. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Air Generation Technology (2021-2026)

Table 20. Global Automotive Camera Cleaning Air Pump Sale Price by Air Generation Technology (2021-2026) & (US\$/Unit)

Table 21. Major Players of Dedicated Single Point Supply

Table 22. Major Players of Centralized Multi Point Supply

Table 23. Major Players of Others

Table 24. Global Automotive Camera Cleaning Air Pump Sales by Air Supply Architecture (2021-2026) & (K Units)

Table 25. Global Automotive Camera Cleaning Air Pump Sales Market Share by Air Supply Architecture (2021-2026)

Table 26. Global Automotive Camera Cleaning Air Pump Revenue by Air Supply Architecture (2021-2026) & (\$ million)

Table 27. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Air Supply Architecture (2021-2026)

Table 28. Global Automotive Camera Cleaning Air Pump Sale Price by Air Supply Architecture (2021-2026) & (US\$/Unit)

Table 29. Major Players of 12 V Air Pumps

Table 30. Major Players of 24 V Air Pumps

Table 31. Major Players of Others

Table 32. Global Automotive Camera Cleaning Air Pump Sales by Rated Voltage (2021-2026) & (K Units)

Table 33. Global Automotive Camera Cleaning Air Pump Sales Market Share by Rated Voltage (2021-2026)

Table 34. Global Automotive Camera Cleaning Air Pump Revenue by Rated Voltage (2021-2026) & (\$ million)

Table 35. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Rated Voltage (2021-2026)

Table 36. Global Automotive Camera Cleaning Air Pump Sale Price by Rated Voltage (2021-2026) & (US\$/Unit)

Table 37. Global Automotive Camera Cleaning Air Pump Sale by Application (2021-2026) & (K Units)

Table 38. Global Automotive Camera Cleaning Air Pump Sale Market Share by Application (2021-2026)

Table 39. Global Automotive Camera Cleaning Air Pump Revenue by Application (2021-2026) & (\$ million)

Table 40. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Application (2021-2026)

Table 41. Global Automotive Camera Cleaning Air Pump Sale Price by Application (2021-2026) & (US\$/Unit)

Table 42. Global Automotive Camera Cleaning Air Pump Sales by Company (2021-2026) & (K Units)

Table 43. Global Automotive Camera Cleaning Air Pump Sales Market Share by Company (2021-2026)

Table 44. Global Automotive Camera Cleaning Air Pump Revenue by Company (2021-2026) & (\$ millions)

Table 45. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Company (2021-2026)

Table 46. Global Automotive Camera Cleaning Air Pump Sale Price by Company (2021-2026) & (US\$/Unit)

Table 47. Key Manufacturers Automotive Camera Cleaning Air Pump Producing Area Distribution and Sales Area

Table 48. Players Automotive Camera Cleaning Air Pump Products Offered

Table 49. Automotive Camera Cleaning Air Pump Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 50. New Products and Potential Entrants

Table 51. Market M&A Activity & Strategy

Table 52. Global Automotive Camera Cleaning Air Pump Sales by Geographic Region (2021-2026) & (K Units)

Table 53. Global Automotive Camera Cleaning Air Pump Sales Market Share Geographic Region (2021-2026)

Table 54. Global Automotive Camera Cleaning Air Pump Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 55. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Geographic Region (2021-2026)

Table 56. Global Automotive Camera Cleaning Air Pump Sales by Country/Region (2021-2026) & (K Units)

Table 57. Global Automotive Camera Cleaning Air Pump Sales Market Share by Country/Region (2021-2026)

Table 58. Global Automotive Camera Cleaning Air Pump Revenue by Country/Region (2021-2026) & (\$ millions)

Table 59. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Country/Region (2021-2026)

Table 60. Americas Automotive Camera Cleaning Air Pump Sales by Country (2021-2026) & (K Units)

Table 61. Americas Automotive Camera Cleaning Air Pump Sales Market Share by Country (2021-2026)

Table 62. Americas Automotive Camera Cleaning Air Pump Revenue by Country (2021-2026) & (\$ millions)

Table 63. Americas Automotive Camera Cleaning Air Pump Sales by Type (2021-2026) & (K Units)

Table 64. Americas Automotive Camera Cleaning Air Pump Sales by Application (2021-2026) & (K Units)

Table 65. APAC Automotive Camera Cleaning Air Pump Sales by Region (2021-2026) & (K Units)

Table 66. APAC Automotive Camera Cleaning Air Pump Sales Market Share by Region (2021-2026)

Table 67. APAC Automotive Camera Cleaning Air Pump Revenue by Region (2021-2026) & (\$ millions)

Table 68. APAC Automotive Camera Cleaning Air Pump Sales by Type (2021-2026) & (K Units)

Table 69. APAC Automotive Camera Cleaning Air Pump Sales by Application (2021-2026) & (K Units)

Table 70. Europe Automotive Camera Cleaning Air Pump Sales by Country (2021-2026) & (K Units)

Table 71. Europe Automotive Camera Cleaning Air Pump Revenue by Country (2021-2026) & (\$ millions)

Table 72. Europe Automotive Camera Cleaning Air Pump Sales by Type (2021-2026) & (K Units)

Table 73. Europe Automotive Camera Cleaning Air Pump Sales by Application (2021-2026) & (K Units)

Table 74. Middle East & Africa Automotive Camera Cleaning Air Pump Sales by Country (2021-2026) & (K Units)

Table 75. Middle East & Africa Automotive Camera Cleaning Air Pump Revenue Market Share by Country (2021-2026)

Table 76. Middle East & Africa Automotive Camera Cleaning Air Pump Sales by Type (2021-2026) & (K Units)

Table 77. Middle East & Africa Automotive Camera Cleaning Air Pump Sales by Application (2021-2026) & (K Units)

Table 78. Key Market Drivers & Growth Opportunities of Automotive Camera Cleaning Air Pump

Table 79. Key Market Challenges & Risks of Automotive Camera Cleaning Air Pump

Table 80. Key Industry Trends of Automotive Camera Cleaning Air Pump

Table 81. Automotive Camera Cleaning Air Pump Raw Material

Table 82. Key Suppliers of Raw Materials

Table 83. Automotive Camera Cleaning Air Pump Distributors List

Table 84. Automotive Camera Cleaning Air Pump Customer List

Table 85. Global Automotive Camera Cleaning Air Pump Sales Forecast by Region (2027-2032) & (K Units)

Table 86. Global Automotive Camera Cleaning Air Pump Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 87. Americas Automotive Camera Cleaning Air Pump Sales Forecast by Country (2027-2032) & (K Units)

Table 88. Americas Automotive Camera Cleaning Air Pump Annual Revenue Forecast

by Country (2027-2032) & (\$ millions)

Table 89. APAC Automotive Camera Cleaning Air Pump Sales Forecast by Region (2027-2032) & (K Units)

Table 90. APAC Automotive Camera Cleaning Air Pump Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 91. Europe Automotive Camera Cleaning Air Pump Sales Forecast by Country (2027-2032) & (K Units)

Table 92. Europe Automotive Camera Cleaning Air Pump Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 93. Middle East & Africa Automotive Camera Cleaning Air Pump Sales Forecast by Country (2027-2032) & (K Units)

Table 94. Middle East & Africa Automotive Camera Cleaning Air Pump Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 95. Global Automotive Camera Cleaning Air Pump Sales Forecast by Type (2027-2032) & (K Units)

Table 96. Global Automotive Camera Cleaning Air Pump Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 97. Global Automotive Camera Cleaning Air Pump Sales Forecast by Application (2027-2032) & (K Units)

Table 98. Global Automotive Camera Cleaning Air Pump Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 99. Rheinmetall AG (Pierburg) Basic Information, Automotive Camera Cleaning Air Pump Manufacturing Base, Sales Area and Its Competitors

Table 100. Rheinmetall AG (Pierburg) Automotive Camera Cleaning Air Pump Product Portfolios and Specifications

Table 101. Rheinmetall AG (Pierburg) Automotive Camera Cleaning Air Pump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Rheinmetall AG (Pierburg) Main Business

Table 103. Rheinmetall AG (Pierburg) Latest Developments

Table 104. Ningbo Hengshuai Co., Ltd. Basic Information, Automotive Camera Cleaning Air Pump Manufacturing Base, Sales Area and Its Competitors

Table 105. Ningbo Hengshuai Co., Ltd. Automotive Camera Cleaning Air Pump Product Portfolios and Specifications

Table 106. Ningbo Hengshuai Co., Ltd. Automotive Camera Cleaning Air Pump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Ningbo Hengshuai Co., Ltd. Main Business

Table 108. Ningbo Hengshuai Co., Ltd. Latest Developments

Table 109. Kautex Textron GmbH & Co. KG Basic Information, Automotive Camera Cleaning Air Pump Manufacturing Base, Sales Area and Its Competitors

Table 110. Kautex Textron GmbH & Co. KG Automotive Camera Cleaning Air Pump Product Portfolios and Specifications

Table 111. Kautex Textron GmbH & Co. KG Automotive Camera Cleaning Air Pump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Kautex Textron GmbH & Co. KG Main Business

Table 113. Kautex Textron GmbH & Co. KG Latest Developments

Table 114. Ficosa International, S.A. Basic Information, Automotive Camera Cleaning Air Pump Manufacturing Base, Sales Area and Its Competitors

Table 115. Ficosa International, S.A. Automotive Camera Cleaning Air Pump Product Portfolios and Specifications

Table 116. Ficosa International, S.A. Automotive Camera Cleaning Air Pump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Ficosa International, S.A. Main Business

Table 118. Ficosa International, S.A. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Automotive Camera Cleaning Air Pump
- Figure 2. Automotive Camera Cleaning Air Pump Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Automotive Camera Cleaning Air Pump Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Automotive Camera Cleaning Air Pump Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Automotive Camera Cleaning Air Pump Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Automotive Camera Cleaning Air Pump Sales Market Share by Country/Region (2025)
- Figure 10. Automotive Camera Cleaning Air Pump Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Brushed DC Motor Pumps
- Figure 12. Product Picture of Brushless DC Motor Pumps
- Figure 13. Product Picture of Others
- Figure 14. Global Automotive Camera Cleaning Air Pump Sales Market Share by Type in 2026
- Figure 15. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Diaphragm Air Pumps
- Figure 17. Product Picture of Piston Air Pumps
- Figure 18. Product Picture of Rotary and Impeller Air Pumps
- Figure 19. Product Picture of Electric Vapor Pumps
- Figure 20. Product Picture of Others
- Figure 21. Global Automotive Camera Cleaning Air Pump Sales Market Share by Air Generation Technology in 2026
- Figure 22. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Air Generation Technology (2021-2026)
- Figure 23. Product Picture of Dedicated Single Point Supply
- Figure 24. Product Picture of Centralized Multi Point Supply
- Figure 25. Product Picture of Others
- Figure 26. Global Automotive Camera Cleaning Air Pump Sales Market Share by Air

Supply Architecture in 2026

Figure 27. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Air Supply Architecture (2021-2026)

Figure 28. Product Picture of 12 V Air Pumps

Figure 29. Product Picture of 24 V Air Pumps

Figure 30. Product Picture of Others

Figure 31. Global Automotive Camera Cleaning Air Pump Sales Market Share by Rated Voltage in 2026

Figure 32. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Rated Voltage (2021-2026)

Figure 33. Automotive Camera Cleaning Air Pump Consumed in Passenger Vehicles

Figure 34. Global Automotive Camera Cleaning Air Pump Market: Passenger Vehicles (2021-2026) & (K Units)

Figure 35. Automotive Camera Cleaning Air Pump Consumed in Light Commercial Vehicles

Figure 36. Global Automotive Camera Cleaning Air Pump Market: Light Commercial Vehicles (2021-2026) & (K Units)

Figure 37. Automotive Camera Cleaning Air Pump Consumed in Medium and Heavy Trucks

Figure 38. Global Automotive Camera Cleaning Air Pump Market: Medium and Heavy Trucks (2021-2026) & (K Units)

Figure 39. Automotive Camera Cleaning Air Pump Consumed in Buses

Figure 40. Global Automotive Camera Cleaning Air Pump Market: Buses (2021-2026) & (K Units)

Figure 41. Automotive Camera Cleaning Air Pump Consumed in Special-Purpose Vehicles

Figure 42. Global Automotive Camera Cleaning Air Pump Market: Special-Purpose Vehicles (2021-2026) & (K Units)

Figure 43. Automotive Camera Cleaning Air Pump Consumed in Others

Figure 44. Global Automotive Camera Cleaning Air Pump Market: Others (2021-2026) & (K Units)

Figure 45. Global Automotive Camera Cleaning Air Pump Sale Market Share by Application (2025)

Figure 46. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Application in 2025

Figure 47. Automotive Camera Cleaning Air Pump Sales by Company in 2025 (K Units)

Figure 48. Global Automotive Camera Cleaning Air Pump Sales Market Share by Company in 2025

Figure 49. Automotive Camera Cleaning Air Pump Revenue by Company in 2025 (\$

millions)

Figure 50. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Company in 2025

Figure 51. Global Automotive Camera Cleaning Air Pump Sales Market Share by Geographic Region (2021-2026)

Figure 52. Global Automotive Camera Cleaning Air Pump Revenue Market Share by Geographic Region in 2025

Figure 53. Americas Automotive Camera Cleaning Air Pump Sales 2021-2026 (K Units)

Figure 54. Americas Automotive Camera Cleaning Air Pump Revenue 2021-2026 (\$ millions)

Figure 55. APAC Automotive Camera Cleaning Air Pump Sales 2021-2026 (K Units)

Figure 56. APAC Automotive Camera Cleaning Air Pump Revenue 2021-2026 (\$ millions)

Figure 57. Europe Automotive Camera Cleaning Air Pump Sales 2021-2026 (K Units)

Figure 58. Europe Automotive Camera Cleaning Air Pump Revenue 2021-2026 (\$ millions)

Figure 59. Middle East & Africa Automotive Camera Cleaning Air Pump Sales 2021-2026 (K Units)

Figure 60. Middle East & Africa Automotive Camera Cleaning Air Pump Revenue 2021-2026 (\$ millions)

Figure 61. Americas Automotive Camera Cleaning Air Pump Sales Market Share by Country in 2025

Figure 62. Americas Automotive Camera Cleaning Air Pump Revenue Market Share by Country (2021-2026)

Figure 63. Americas Automotive Camera Cleaning Air Pump Sales Market Share by Type (2021-2026)

Figure 64. Americas Automotive Camera Cleaning Air Pump Sales Market Share by Application (2021-2026)

Figure 65. United States Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 66. Canada Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 67. Mexico Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 68. Brazil Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 69. APAC Automotive Camera Cleaning Air Pump Sales Market Share by Region in 2025

Figure 70. APAC Automotive Camera Cleaning Air Pump Revenue Market Share by

Region (2021-2026)

Figure 71. APAC Automotive Camera Cleaning Air Pump Sales Market Share by Type (2021-2026)

Figure 72. APAC Automotive Camera Cleaning Air Pump Sales Market Share by Application (2021-2026)

Figure 73. China Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 74. Japan Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 75. South Korea Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 76. Southeast Asia Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 77. India Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 78. Australia Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 79. China Taiwan Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 80. Europe Automotive Camera Cleaning Air Pump Sales Market Share by Country in 2025

Figure 81. Europe Automotive Camera Cleaning Air Pump Revenue Market Share by Country (2021-2026)

Figure 82. Europe Automotive Camera Cleaning Air Pump Sales Market Share by Type (2021-2026)

Figure 83. Europe Automotive Camera Cleaning Air Pump Sales Market Share by Application (2021-2026)

Figure 84. Germany Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 85. France Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 86. UK Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 87. Italy Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 88. Russia Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 89. Middle East & Africa Automotive Camera Cleaning Air Pump Sales Market Share by Country (2021-2026)

Figure 90. Middle East & Africa Automotive Camera Cleaning Air Pump Sales Market Share by Type (2021-2026)

Figure 91. Middle East & Africa Automotive Camera Cleaning Air Pump Sales Market Share by Application (2021-2026)

Figure 92. Egypt Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 93. South Africa Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 94. Israel Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 95. Turkey Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 96. GCC Countries Automotive Camera Cleaning Air Pump Revenue Growth 2021-2026 (\$ millions)

Figure 97. Manufacturing Cost Structure Analysis of Automotive Camera Cleaning Air Pump in 2026

Figure 98. Manufacturing Process Analysis of Automotive Camera Cleaning Air Pump

Figure 99. Industry Chain Structure of Automotive Camera Cleaning Air Pump

Figure 100. Channels of Distribution

Figure 101. Global Automotive Camera Cleaning Air Pump Sales Market Forecast by Region (2027-2032)

Figure 102. Global Automotive Camera Cleaning Air Pump Revenue Market Share Forecast by Region (2027-2032)

Figure 103. Global Automotive Camera Cleaning Air Pump Sales Market Share Forecast by Type (2027-2032)

Figure 104. Global Automotive Camera Cleaning Air Pump Revenue Market Share Forecast by Type (2027-2032)

Figure 105. Global Automotive Camera Cleaning Air Pump Sales Market Share Forecast by Application (2027-2032)

Figure 106. Global Automotive Camera Cleaning Air Pump Revenue Market Share Forecast by Application (2027-2032)

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