

Global Automotive-Grade MEMS Mics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive-Grade MEMS Mics market size is expected to reach \$ 969 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

Automotive-Grade MEMS Mics are automotive-qualified microelectromechanical acoustic sensors designed for in-cabin voice capture and acoustic perception, capable of maintaining stable sensitivity and consistent signal output under wide temperature ranges, strong vibration, and complex electromagnetic environments, while meeting stringent requirements for noise immunity and long-term reliability in voice interaction, active noise control, and safety monitoring. In 2025, production reached 942 million units and the average price was USD 0.55 per unit. In 2025, the industry capacity utilization rate was approximately 59%, and the average gross margin was around 35%. Upstream, the industry relies on silicon wafers and thin-film deposition materials such as silicon nitride and silicon oxide, with representative suppliers including SUMCO, GlobalWafers, and Shin-Etsu. The midstream segment covers device packaging and durability engineering, acoustic calibration, firmware integration, and automotive-grade reliability and consistency testing. Downstream, Automotive-Grade MEMS Mics are mainly supplied to passenger vehicle and commercial vehicle manufacturers, with representative customers such as Tesla, Volkswagen, Toyota, BYD, and SAIC Motor, and are widely applied in voice interaction systems, in-cabin communication, and smart cockpit acoustic solutions.

The market outlook for Automotive-Grade MEMS Mics is increasingly positive as vehicle cabins evolve into intelligent, voice-centric human-machine interaction spaces. Growing penetration of voice assistants, hands-free communication, in-cabin monitoring, and active noise control systems is driving sustained demand for high-performance acoustic sensors that can operate reliably under harsh automotive conditions. Compared with consumer-grade devices, automotive-grade MEMS microphones benefit from stricter

qualification standards, longer product lifecycles, and higher value per vehicle, supporting stable volume growth and defensible margins. In parallel, the rise of intelligent cockpits and partially automated driving is expanding the number of microphones deployed per vehicle, from basic telephony toward multi-microphone arrays enabling spatial audio processing and occupant sensing. Over the medium to long term, advances in signal processing and sensor fusion will further enhance the strategic importance of in-cabin audio data, positioning automotive-grade MEMS microphones as a foundational component in future vehicle electronic architectures. This report studies the global Automotive-Grade MEMS Mics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive-Grade MEMS Mics 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-Grade MEMS Mics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive-Grade MEMS Mics total production and demand, 2021-2032, (K Units)

Global Automotive-Grade MEMS Mics total production value, 2021-2032, (USD Million)

Global Automotive-Grade MEMS Mics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive-Grade MEMS Mics consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive-Grade MEMS Mics domestic production, consumption, key domestic manufacturers and share

Global Automotive-Grade MEMS Mics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive-Grade MEMS Mics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive-Grade MEMS Mics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive-Grade MEMS Mics 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 Knowles, Gorertek, AAC, BSE, STMicroelectronics, TDK, Hosiden, Analog Devices, Bosch, Memsensing Microsystems, 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-Grade MEMS Mics 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-Grade MEMS Mics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive-Grade MEMS Mics Market, Segmentation by Type:

Digital Type

Analog Type

Global Automotive-Grade MEMS Mics Market, Segmentation by Grade:

ISO 26262 ASIL-B

ISO 26262 ASIL-A

Others

Global Automotive-Grade MEMS Mics Market, Segmentation by Packaging:

Ceramic Package

Metal Package

Others

Global Automotive-Grade MEMS Mics Market, Segmentation by Application:

Passenger Cars

Commercial Vehicle

Companies Profiled:

Knowles

Gorertek

AAC

BSE

STMicroelectronics

TDK

Hosiden

Analog Devices

Bosch

Memsensing Microsystems

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automotive-Grade MEMS Mics Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive-Grade MEMS Mics Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive-Grade MEMS Mics Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive-Grade MEMS Mics Production (2021-2026)

4.5 China Based Automotive-Grade MEMS Mics Manufacturers and Market Share

4.5.1 China Based Automotive-Grade MEMS Mics Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive-Grade MEMS Mics Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive-Grade MEMS Mics Production (2021-2026)

4.6 Rest of World Based Automotive-Grade MEMS Mics Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive-Grade MEMS Mics Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive-Grade MEMS Mics Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive-Grade MEMS Mics Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive-Grade MEMS Mics Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Digital Type

5.2.2 Analog Type

5.3 Market Segment by Type

5.3.1 World Automotive-Grade MEMS Mics Production by Type (2021-2032)

5.3.2 World Automotive-Grade MEMS Mics Production Value by Type (2021-2032)

5.3.3 World Automotive-Grade MEMS Mics Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY GRADE

6.1 World Automotive-Grade MEMS Mics Market Size Overview by Grade: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Grade

6.2.1 ISO 26262 ASIL-B

6.2.2 ISO 26262 ASIL-A

6.2.3 Others

6.3 Market Segment by Grade

6.3.1 World Automotive-Grade MEMS Mics Production by Grade (2021-2032)

6.3.2 World Automotive-Grade MEMS Mics Production Value by Grade (2021-2032)

6.3.3 World Automotive-Grade MEMS Mics Average Price by Grade (2021-2032)

7 MARKET ANALYSIS BY PACKAGING

7.1 World Automotive-Grade MEMS Mics Market Size Overview by Packaging: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Packaging

7.2.1 Ceramic Package

7.2.2 Metal Package

7.2.3 Others

7.3 Market Segment by Packaging

7.3.1 World Automotive-Grade MEMS Mics Production by Packaging (2021-2032)

7.3.2 World Automotive-Grade MEMS Mics Production Value by Packaging (2021-2032)

7.3.3 World Automotive-Grade MEMS Mics Average Price by Packaging (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automotive-Grade MEMS Mics Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Cars

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

8.3.1 World Automotive-Grade MEMS Mics Production by Application (2021-2032)

8.3.2 World Automotive-Grade MEMS Mics Production Value by Application (2021-2032)

8.3.3 World Automotive-Grade MEMS Mics Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Knowles

9.1.1 Knowles Details

9.1.2 Knowles Major Business

9.1.3 Knowles Automotive-Grade MEMS Mics Product and Services

9.1.4 Knowles Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Knowles Recent Developments/Updates

9.1.6 Knowles Competitive Strengths & Weaknesses

9.2 Gorertek

9.2.1 Gorertek Details

9.2.2 Gorertek Major Business

9.2.3 Gorertek Automotive-Grade MEMS Mics Product and Services

9.2.4 Gorertek Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Gorertek Recent Developments/Updates

9.2.6 Gorertek Competitive Strengths & Weaknesses

9.3 AAC

9.3.1 AAC Details

9.3.2 AAC Major Business

9.3.3 AAC Automotive-Grade MEMS Mics Product and Services

9.3.4 AAC Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 AAC Recent Developments/Updates

9.3.6 AAC Competitive Strengths & Weaknesses

9.4 BSE

9.4.1 BSE Details

9.4.2 BSE Major Business

9.4.3 BSE Automotive-Grade MEMS Mics Product and Services

9.4.4 BSE Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 BSE Recent Developments/Updates

9.4.6 BSE Competitive Strengths & Weaknesses

9.5 STMicroelectronics

9.5.1 STMicroelectronics Details

9.5.2 STMicroelectronics Major Business

9.5.3 STMicroelectronics Automotive-Grade MEMS Mics Product and Services

9.5.4 STMicroelectronics Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 STMicroelectronics Recent Developments/Updates
- 9.5.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.6 TDK
 - 9.6.1 TDK Details
 - 9.6.2 TDK Major Business
 - 9.6.3 TDK Automotive-Grade MEMS Mics Product and Services
 - 9.6.4 TDK Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 TDK Recent Developments/Updates
 - 9.6.6 TDK Competitive Strengths & Weaknesses
- 9.7 Hosiden
 - 9.7.1 Hosiden Details
 - 9.7.2 Hosiden Major Business
 - 9.7.3 Hosiden Automotive-Grade MEMS Mics Product and Services
 - 9.7.4 Hosiden Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Hosiden Recent Developments/Updates
 - 9.7.6 Hosiden Competitive Strengths & Weaknesses
- 9.8 Analog Devices
 - 9.8.1 Analog Devices Details
 - 9.8.2 Analog Devices Major Business
 - 9.8.3 Analog Devices Automotive-Grade MEMS Mics Product and Services
 - 9.8.4 Analog Devices Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Analog Devices Recent Developments/Updates
 - 9.8.6 Analog Devices Competitive Strengths & Weaknesses
- 9.9 Bosch
 - 9.9.1 Bosch Details
 - 9.9.2 Bosch Major Business
 - 9.9.3 Bosch Automotive-Grade MEMS Mics Product and Services
 - 9.9.4 Bosch Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Bosch Recent Developments/Updates
 - 9.9.6 Bosch Competitive Strengths & Weaknesses
- 9.10 Memsensing Microsystems
 - 9.10.1 Memsensing Microsystems Details
 - 9.10.2 Memsensing Microsystems Major Business
 - 9.10.3 Memsensing Microsystems Automotive-Grade MEMS Mics Product and Services

9.10.4 Memsensing Microsystems Automotive-Grade MEMS Mics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Memsensing Microsystems Recent Developments/Updates

9.10.6 Memsensing Microsystems Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Automotive-Grade MEMS Mics Industry Chain

10.2 Automotive-Grade MEMS Mics Upstream Analysis

10.2.1 Automotive-Grade MEMS Mics Core Raw Materials

10.2.2 Main Manufacturers of Automotive-Grade MEMS Mics Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Automotive-Grade MEMS Mics Production Mode

10.6 Automotive-Grade MEMS Mics Procurement Model

10.7 Automotive-Grade MEMS Mics Industry Sales Model and Sales Channels

10.7.1 Automotive-Grade MEMS Mics Sales Model

10.7.2 Automotive-Grade MEMS Mics Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Automotive-Grade MEMS Mics Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive-Grade MEMS Mics Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive-Grade MEMS Mics Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive-Grade MEMS Mics Production Value Market Share by Region (2021-2026)

Table 5. World Automotive-Grade MEMS Mics Production Value Market Share by Region (2027-2032)

Table 6. World Automotive-Grade MEMS Mics Production by Region (2021-2026) & (K Units)

Table 7. World Automotive-Grade MEMS Mics Production by Region (2027-2032) & (K Units)

Table 8. World Automotive-Grade MEMS Mics Production Market Share by Region (2021-2026)

Table 9. World Automotive-Grade MEMS Mics Production Market Share by Region (2027-2032)

Table 10. World Automotive-Grade MEMS Mics Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Automotive-Grade MEMS Mics Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Automotive-Grade MEMS Mics Major Market Trends

Table 13. World Automotive-Grade MEMS Mics Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automotive-Grade MEMS Mics Consumption by Region (2021-2026) & (K Units)

Table 15. World Automotive-Grade MEMS Mics Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automotive-Grade MEMS Mics Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive-Grade MEMS Mics Producers in 2025

Table 18. World Automotive-Grade MEMS Mics Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive-Grade MEMS Mics Producers in 2025

Table 20. World Automotive-Grade MEMS Mics Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Automotive-Grade MEMS Mics Company Evaluation Quadrant

Table 22. World Automotive-Grade MEMS Mics Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive-Grade MEMS Mics Production Site of Key Manufacturer

Table 24. Automotive-Grade MEMS Mics Market: Company Product Type Footprint

Table 25. Automotive-Grade MEMS Mics Market: Company Product Application Footprint

Table 26. Automotive-Grade MEMS Mics Competitive Factors

Table 27. Automotive-Grade MEMS Mics New Entrant and Capacity Expansion Plans

Table 28. Automotive-Grade MEMS Mics Mergers & Acquisitions Activity

Table 29. United States VS China Automotive-Grade MEMS Mics Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automotive-Grade MEMS Mics Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive-Grade MEMS Mics Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automotive-Grade MEMS Mics Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive-Grade MEMS Mics Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive-Grade MEMS Mics Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive-Grade MEMS Mics Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automotive-Grade MEMS Mics Production Market Share (2021-2026)

Table 37. China Based Automotive-Grade MEMS Mics Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive-Grade MEMS Mics Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive-Grade MEMS Mics Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive-Grade MEMS Mics Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automotive-Grade MEMS Mics Production Market Share (2021-2026)

Table 42. Rest of World Based Automotive-Grade MEMS Mics Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automotive-Grade MEMS Mics Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automotive-Grade MEMS Mics Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive-Grade MEMS Mics Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automotive-Grade MEMS Mics Production Market Share (2021-2026)

Table 47. World Automotive-Grade MEMS Mics Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automotive-Grade MEMS Mics Production by Type (2021-2026) & (K Units)

Table 49. World Automotive-Grade MEMS Mics Production by Type (2027-2032) & (K Units)

Table 50. World Automotive-Grade MEMS Mics Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automotive-Grade MEMS Mics Production Value by Type (2027-2032) & (USD Million)

Table 52. World Automotive-Grade MEMS Mics Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Automotive-Grade MEMS Mics Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Automotive-Grade MEMS Mics Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive-Grade MEMS Mics Production by Grade (2021-2026) & (K Units)

Table 56. World Automotive-Grade MEMS Mics Production by Grade (2027-2032) & (K Units)

Table 57. World Automotive-Grade MEMS Mics Production Value by Grade (2021-2026) & (USD Million)

Table 58. World Automotive-Grade MEMS Mics Production Value by Grade (2027-2032) & (USD Million)

Table 59. World Automotive-Grade MEMS Mics Average Price by Grade (2021-2026) & (US\$/Unit)

Table 60. World Automotive-Grade MEMS Mics Average Price by Grade (2027-2032) &

(US\$/Unit)

Table 61. World Automotive-Grade MEMS Mics Production Value by Packaging, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive-Grade MEMS Mics Production by Packaging (2021-2026) & (K Units)

Table 63. World Automotive-Grade MEMS Mics Production by Packaging (2027-2032) & (K Units)

Table 64. World Automotive-Grade MEMS Mics Production Value by Packaging (2021-2026) & (USD Million)

Table 65. World Automotive-Grade MEMS Mics Production Value by Packaging (2027-2032) & (USD Million)

Table 66. World Automotive-Grade MEMS Mics Average Price by Packaging (2021-2026) & (US\$/Unit)

Table 67. World Automotive-Grade MEMS Mics Average Price by Packaging (2027-2032) & (US\$/Unit)

Table 68. World Automotive-Grade MEMS Mics Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automotive-Grade MEMS Mics Production by Application (2021-2026) & (K Units)

Table 70. World Automotive-Grade MEMS Mics Production by Application (2027-2032) & (K Units)

Table 71. World Automotive-Grade MEMS Mics Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automotive-Grade MEMS Mics Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automotive-Grade MEMS Mics Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Automotive-Grade MEMS Mics Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Knowles Basic Information, Manufacturing Base and Competitors

Table 76. Knowles Major Business

Table 77. Knowles Automotive-Grade MEMS Mics Product and Services

Table 78. Knowles Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Knowles Recent Developments/Updates

Table 80. Knowles Competitive Strengths & Weaknesses

Table 81. Gorertek Basic Information, Manufacturing Base and Competitors

Table 82. Gorertek Major Business

- Table 83. Gorertek Automotive-Grade MEMS Mics Product and Services
- Table 84. Gorertek Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Gorertek Recent Developments/Updates
- Table 86. Gorertek Competitive Strengths & Weaknesses
- Table 87. AAC Basic Information, Manufacturing Base and Competitors
- Table 88. AAC Major Business
- Table 89. AAC Automotive-Grade MEMS Mics Product and Services
- Table 90. AAC Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. AAC Recent Developments/Updates
- Table 92. AAC Competitive Strengths & Weaknesses
- Table 93. BSE Basic Information, Manufacturing Base and Competitors
- Table 94. BSE Major Business
- Table 95. BSE Automotive-Grade MEMS Mics Product and Services
- Table 96. BSE Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. BSE Recent Developments/Updates
- Table 98. BSE Competitive Strengths & Weaknesses
- Table 99. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 100. STMicroelectronics Major Business
- Table 101. STMicroelectronics Automotive-Grade MEMS Mics Product and Services
- Table 102. STMicroelectronics Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. STMicroelectronics Recent Developments/Updates
- Table 104. STMicroelectronics Competitive Strengths & Weaknesses
- Table 105. TDK Basic Information, Manufacturing Base and Competitors
- Table 106. TDK Major Business
- Table 107. TDK Automotive-Grade MEMS Mics Product and Services
- Table 108. TDK Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. TDK Recent Developments/Updates
- Table 110. TDK Competitive Strengths & Weaknesses
- Table 111. Hosiden Basic Information, Manufacturing Base and Competitors
- Table 112. Hosiden Major Business
- Table 113. Hosiden Automotive-Grade MEMS Mics Product and Services
- Table 114. Hosiden Automotive-Grade MEMS Mics Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Hosiden Recent Developments/Updates

Table 116. Hosiden Competitive Strengths & Weaknesses

Table 117. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 118. Analog Devices Major Business

Table 119. Analog Devices Automotive-Grade MEMS Mics Product and Services

Table 120. Analog Devices Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Analog Devices Recent Developments/Updates

Table 122. Analog Devices Competitive Strengths & Weaknesses

Table 123. Bosch Basic Information, Manufacturing Base and Competitors

Table 124. Bosch Major Business

Table 125. Bosch Automotive-Grade MEMS Mics Product and Services

Table 126. Bosch Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Bosch Recent Developments/Updates

Table 128. Bosch Competitive Strengths & Weaknesses

Table 129. Memsensing Microsystems Basic Information, Manufacturing Base and Competitors

Table 130. Memsensing Microsystems Major Business

Table 131. Memsensing Microsystems Automotive-Grade MEMS Mics Product and Services

Table 132. Memsensing Microsystems Automotive-Grade MEMS Mics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Memsensing Microsystems Recent Developments/Updates

Table 134. Memsensing Microsystems Competitive Strengths & Weaknesses

Table 135. Global Key Players of Automotive-Grade MEMS Mics Upstream (Raw Materials)

Table 136. Global Automotive-Grade MEMS Mics Typical Customers

Table 137. Automotive-Grade MEMS Mics Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive-Grade MEMS Mics Picture

Figure 2. World Automotive-Grade MEMS Mics Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automotive-Grade MEMS Mics Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automotive-Grade MEMS Mics Production (2021-2032) & (K Units)

Figure 5. World Automotive-Grade MEMS Mics Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automotive-Grade MEMS Mics Production Value Market Share by Region (2021-2032)

Figure 7. World Automotive-Grade MEMS Mics Production Market Share by Region (2021-2032)

Figure 8. North America Automotive-Grade MEMS Mics Production (2021-2032) & (K Units)

Figure 9. Europe Automotive-Grade MEMS Mics Production (2021-2032) & (K Units)

Figure 10. China Automotive-Grade MEMS Mics Production (2021-2032) & (K Units)

Figure 11. Japan Automotive-Grade MEMS Mics Production (2021-2032) & (K Units)

Figure 12. South Korea Automotive-Grade MEMS Mics Production (2021-2032) & (K Units)

Figure 13. Automotive-Grade MEMS Mics Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 16. World Automotive-Grade MEMS Mics Consumption Market Share by Region (2021-2032)

Figure 17. United States Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 18. China Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 19. Europe Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 20. Japan Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 21. South Korea Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 23. India Automotive-Grade MEMS Mics Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Automotive-Grade MEMS Mics by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Automotive-Grade MEMS Mics Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Automotive-Grade MEMS Mics Markets in 2025

Figure 27. United States VS China: Automotive-Grade MEMS Mics Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Automotive-Grade MEMS Mics Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Automotive-Grade MEMS Mics Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Automotive-Grade MEMS Mics Production Market Share 2025

Figure 31. China Based Manufacturers Automotive-Grade MEMS Mics Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Automotive-Grade MEMS Mics Production Market Share 2025

Figure 33. World Automotive-Grade MEMS Mics Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Automotive-Grade MEMS Mics Production Value Market Share by Type in 2025

Figure 35. Digital Type

Figure 36. Analog Type

Figure 37. World Automotive-Grade MEMS Mics Production Market Share by Type (2021-2032)

Figure 38. World Automotive-Grade MEMS Mics Production Value Market Share by Type (2021-2032)

Figure 39. World Automotive-Grade MEMS Mics Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Automotive-Grade MEMS Mics Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Figure 41. World Automotive-Grade MEMS Mics Production Value Market Share by Grade in 2025

Figure 42. ISO 26262 ASIL-B

Figure 43. ISO 26262 ASIL-A

Figure 44. Others

Figure 45. World Automotive-Grade MEMS Mics Production Market Share by Grade (2021-2032)

Figure 46. World Automotive-Grade MEMS Mics Production Value Market Share by Grade (2021-2032)

Figure 47. World Automotive-Grade MEMS Mics Average Price by Grade (2021-2032) & (US\$/Unit)

Figure 48. World Automotive-Grade MEMS Mics Production Value by Packaging, (USD Million), 2021 & 2025 & 2032

Figure 49. World Automotive-Grade MEMS Mics Production Value Market Share by Packaging in 2025

Figure 50. Ceramic Package

Figure 51. Metal Package

Figure 52. Others

Figure 53. World Automotive-Grade MEMS Mics Production Market Share by Packaging (2021-2032)

Figure 54. World Automotive-Grade MEMS Mics Production Value Market Share by Packaging (2021-2032)

Figure 55. World Automotive-Grade MEMS Mics Average Price by Packaging (2021-2032) & (US\$/Unit)

Figure 56. World Automotive-Grade MEMS Mics Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Automotive-Grade MEMS Mics Production Value Market Share by Application in 2025

Figure 58. Passenger Cars

Figure 59. Commercial Vehicle

Figure 60. World Automotive-Grade MEMS Mics Production Market Share by Application (2021-2032)

Figure 61. World Automotive-Grade MEMS Mics Production Value Market Share by Application (2021-2032)

Figure 62. World Automotive-Grade MEMS Mics Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Automotive-Grade MEMS Mics Industry Chain

Figure 64. Automotive-Grade MEMS Mics Procurement Model

Figure 65. Automotive-Grade MEMS Mics Sales Model

Figure 66. Automotive-Grade MEMS Mics Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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