

Global Automotive-Grade MEMS Mics Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive-Grade MEMS Mics market size was valued at US\$ 533 million in 2025 and is forecast to a readjusted size of US\$ 969 million by 2032 with a CAGR of 8.9% during review period.

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 is a detailed and comprehensive analysis for global Automotive-Grade MEMS Mics market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive-Grade MEMS Mics market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade MEMS Mics market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade MEMS Mics market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade MEMS Mics market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive-Grade MEMS Mics

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive-Grade MEMS Mics market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Automotive-Grade MEMS Mics market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Digital Type

Analog Type

Market segment by Grade

ISO 26262 ASIL-B

ISO 26262 ASIL-A

Others

Market segment by Packaging

Ceramic Package

Metal Package

Others

Market segment by Application

Passenger Cars

Commercial Vehicle

Major players covered

Knowles

Gorertek

AAC

BSE

STMicroelectronics

TDK

Hosiden

Analog Devices

Bosch

Memsensing Microsystems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive-Grade MEMS Mics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-Grade MEMS Mics, with price, sales quantity, revenue, and global market share of Automotive-Grade MEMS Mics from 2021 to 2026.

Chapter 3, the Automotive-Grade MEMS Mics competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive-Grade MEMS Mics breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive-Grade MEMS Mics market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive-Grade MEMS Mics.

Chapter 14 and 15, to describe Automotive-Grade MEMS Mics sales channel, distributors, customers, research findings and conclusion.

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