

Global Medical Piezoelectric Ceramic Components Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Medical Piezoelectric Ceramic Components market size was valued at US\$ 429 million in 2024 and is forecast to a readjusted size of USD 621 million by 2031 with a CAGR of 5.5% during review period.

Piezoelectric ceramic components are ceramic pieces that utilize the reversibility of the piezoelectric effect to apply an audio voltage to generate mechanical vibrations and produce sound. Piezoelectric ceramic chips are a type of electroacoustic device with a simple and lightweight structure. They have been widely used due to their high sensitivity, no magnetic field spreading or overflowing, no need for copper wires and magnets, low cost, low power consumption, easy repair, and ease of mass production. Medical piezoelectric ceramic components have a wide range of applications in the medical industry, mainly based on their unique piezoelectric effect, which can convert mechanical energy into electrical energy or vice versa.

Nano piezoelectric materials. In recent years, with the continuous development of nanotechnology, it has been applied in the field of piezoelectric materials and gradually formed a new field of piezoelectric materials, mainly manifested in the continuous search for new effects from old piezoelectric materials, the nanoscale control of old materials, starting from the raw materials and structures of piezoelectric materials, exploring new piezoelectric materials, and researching high-performance nano modified piezoelectric ceramics. At the same time, the preparation of ultrafine powders of piezoelectric materials has become one of the hotspots of research, and how to obtain crystalline powders with small grain size, good uniformity, and high surface activity has also become a focus of attention. Lead free piezoelectric ceramics. In recent years, with

the gradual improvement of environmental protection requirements, people's environmental awareness has also been continuously strengthened. With the implementation of the international community's sustainable development strategy, many governments have successively introduced policies to prohibit the presence of lead in electronic products. Developed countries such as the United States have invested tremendous effort in research, and significant progress has been made in the study of lead-free and low lead piezoelectric ceramics, gradually replacing lead based piezoelectric ceramics. However, there is still a lot of work to be done in the research of lead-free piezoelectric ceramics, and it is necessary to further improve the electromechanical coupling coefficient and mechanical quality factor of lead-free piezoelectric ceramic materials, so that the structure, properties, and preparation process of lead-free materials can meet large-scale production needs. According to our research, the global market for medical devices is estimated at US\$ 603 billion in the year 2023, and will be growing at a CAGR of 5% during next six years. The global healthcare spending contributes to occupy 10% of the global GDP and is continuously rising in recent years due to the increasing health needs of the aging population, the growing prevalence of chronic and infectious diseases and the expansion of emerging markets. The medical devices market plays a significant role in the healthcare industry. The market is driven by several factors, including the increasing demand for advanced healthcare services globally, advancements in medical technology, growing geriatric population, rising healthcare expenditure, and increasing awareness about early disease diagnosis and treatment.

This report is a detailed and comprehensive analysis for global Medical Piezoelectric Ceramic Components 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 Medical Piezoelectric Ceramic Components market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Medical Piezoelectric Ceramic Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average

selling prices (US\$/Unit), 2020-2031

Global Medical Piezoelectric Ceramic Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Medical Piezoelectric Ceramic Components market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Medical Piezoelectric Ceramic Components
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Medical Piezoelectric Ceramic Components 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 Kyocera, CeramTec, Johnson Matthey, CTS Corporation, PI Ceramic GmbH, Fuji Ceramics Corporation, Piezo Technologies, TRS Technologies, inc, Meggitt Sensing, Piezo Kinetics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Medical Piezoelectric Ceramic Components market is split by Type and by Application. For the period 2020-2031, 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

PZT-Based

PMN-Based

Others

Market segment by Application

Ultrasonic Probe

Pacemaker

In Vitro Monitoring

Others

Major players covered

Kyocera

CeramTec

Johnson Matthey

CTS Corporation

PI Ceramic GmbH

Fuji Ceramics Corporation

Piezo Technologies

TRS Technologies, inc

Meggitt Sensing

Piezo Kinetics

APC International

Sparkler Ceramics

Weifang Jude Electronic Co.,Ltd

Boston Piezo-Optics Inc.

Changzhou Keliking Electronics

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 Medical Piezoelectric Ceramic Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Medical Piezoelectric Ceramic Components, with price, sales quantity, revenue, and global market share of Medical Piezoelectric Ceramic Components from 2020 to 2025.

Chapter 3, the Medical Piezoelectric Ceramic Components competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Medical Piezoelectric Ceramic Components breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Medical Piezoelectric Ceramic Components market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Medical Piezoelectric Ceramic Components.

Chapter 14 and 15, to describe Medical Piezoelectric Ceramic Components sales channel, distributors, customers, research findings and conclusion.

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