

Global Piezoelectric Devices Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GB5E3048443EN.html>

Date: June 2024

Pages: 106

Price: US\$ 3,480.00 (Single User License)

ID: GB5E3048443EN

Abstracts

According to our (Global Info Research) latest study, the global Piezoelectric Devices market size was valued at USD 23370 million in 2023 and is forecast to a readjusted size of USD 28120 million by 2030 with a CAGR of 2.7% during review period.

Piezoelectricity is the electric charge that gets collected in solid materials such as crystals or ceramics when a mechanical force is applied. Piezoelectric materials exhibit two properties: direct effect and converse effect. The phenomenon when the voltage gets induced after applying mechanical force is called direct effect, while the phenomenon of changing the crystal shape and dimensions after applying voltage is called converse effect.

APAC held the highest share in the global piezoelectric device market in 2017. Japan is involved in the researches on piezoelectric materials to a greater extent than any other country. In recent years, Japan has attempted to apply the piezoelectric technology for microscale applications. These attempts include the usage of piezoelectric technology in floors of train stations to generate electricity. Owing to these researches, the market in APAC is expected to grow at the highest rate in the coming years.

The Global Info Research report includes an overview of the development of the Piezoelectric Devices industry chain, the market status of Industrial and Manufacturing (Piezocrystals, Piezoceramics), Defense and Aerospace (Piezocrystals, Piezoceramics), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Piezoelectric Devices.

Regionally, the report analyzes the Piezoelectric Devices markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Piezoelectric Devices market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Piezoelectric Devices market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Piezoelectric Devices industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Piezocrystals, Piezoceramics).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Piezoelectric Devices market.

Regional Analysis: The report involves examining the Piezoelectric Devices market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Piezoelectric Devices market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Piezoelectric Devices:

Company Analysis: Report covers individual Piezoelectric Devices manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and

strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Piezoelectric Devices. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial and Manufacturing, Defense and Aerospace).

Technology Analysis: Report covers specific technologies relevant to Piezoelectric Devices. It assesses the current state, advancements, and potential future developments in Piezoelectric Devices areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Piezoelectric Devices market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Piezoelectric Devices market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Piezocrystals

Piezoceramics

Piezopolymers

Piezocomposites

Market segment by Application

Industrial and Manufacturing

Defense and Aerospace

Automotive

Healthcare

Information and Communication

Consumer Electronics

Others

Major players covered

PCB Piezotronics

Honeywell

Meggitt Sensing Systems

Bruel and Kjaer

Kistler Group

TE Connectivity

Dytran Instruments

Ceramtec GmbH

APC International

RION

Kyowa Electronic Instruments

Piezo Systems

Metrix Instrument

DJB Instruments

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 Piezoelectric Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Piezoelectric Devices, with price, sales, revenue and global market share of Piezoelectric Devices from 2019 to 2024.

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

Chapter 4, the Piezoelectric Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Piezoelectric Devices market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Piezoelectric Devices.

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

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