

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

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## Abstracts

According to our (Global Info Research) latest study, the global Piezoelectric Actuators market size was valued at USD 907.1 million in 2023 and is forecast to a readjusted size of USD 1267.1 million by 2030 with a CAGR of 4.9% during review period.

Piezoelectric actuators are ceramic elements used to convert electrical energy into mechanical energy such as displacement or force by utilizing the piezoelectric longitudinal effect. A piezoelectric actuator converts an electrical signal into a precisely controlled physical displacement (stroke). If displacement is prevented, a useable force (blocking force) will develop. The precise movement control afforded by piezoelectric actuators is used to finely adjust machining tools, lenses, mirrors, or other equipment. A piezo actuator can be used to control hydraulic valves, act as a small-volume pump or special-purpose motor, and in other applications requiring movement or force. There are many applications where a piezoelectric actuator may be used, such as ultraprecise positioning and in the generation and handling of high forces or pressures in static or in dynamic situations.

Global 5 largest manufacturers of Piezoelectric Actuators are Physik Instrumente (PI) Group, TDK, Murata Manufacturing, KEMET (TOKIN Corporation) and CTS (Noliac), which make up about 60%. Among them, Physik Instrumente (PI) Group is the leader with about 22% market share.

Asia-Pacific is the largest market, with a share about 40%. In terms of product type, Stack Actuators occupy the largest share of the total market, about 92%. And in terms of product Application, the largest application is Industrial & Manufacturing.

The Global Info Research report includes an overview of the development of the Piezoelectric Actuators industry chain, the market status of Industrial & Manufacturing (Stack Actuators, Stripe Actuators), Automotive (Stack Actuators, Stripe Actuators), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Piezoelectric Actuators.

Regionally, the report analyzes the Piezoelectric Actuators 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 Actuators market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Piezoelectric Actuators 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 Actuators 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., Stack Actuators, Stripe Actuators).

**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 Actuators market.

**Regional Analysis:** The report involves examining the Piezoelectric Actuators 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 Actuators 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 Actuators:

**Company Analysis:** Report covers individual Piezoelectric Actuators 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 Actuators. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial & Manufacturing, Automotive).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Piezoelectric Actuators 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 Actuators 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

Stack Actuators

Stripe Actuators

### Market segment by Application

Industrial & Manufacturing

Automotive

Consumer Electronics

Optical Instrument

Medical

Military

Others

#### Major players covered

Physik Instrumente (PI) Group

TDK Corporation

Murata Manufacturing

KEMET (TOKIN Corporation)

CTS (Noliac)

TAIYO YUDEN

Johnson Matthey

Piezosystem Jena

APC International (Schneider Electric)

Kinetic Ceramics

DSM

Cedrat Technologies

Bangci Technology

Suzhou Pant Piezoelectric

Harbin Core Tomorrow

Liaoning Yansheng Technology

Harbin RZNX

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 Actuators product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Piezoelectric Actuators 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 Actuators 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 Actuators.

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

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