

Global Piezo Stack Actuators 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 Piezo Stack Actuators market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %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.

The global Piezoelectric Actuators revenue was US\$ 882 million in 2022 and is forecast to a readjusted size of US\$ 1266.3 million by 2029 with a CAGR of 5.1% during the forecast period (2023-2029).

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 59%. Among them, Physik Instrumente (PI) Group is the leader with about 22% market share.

Europe is the largest market, with a share about 27%, followed by North America and

China, with the share about 25% and 18%.

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

Global Piezo Stack Actuators 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 Piezo Stack Actuators 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 Piezo Stack Actuators 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 Piezo Stack Actuators

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 Piezo Stack Actuators 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 TDK Corporation, KEMET, Thorlabs, NGK Group, Piezo Direct, Tokin, CTS (Noliac), TAIYO YUDEN, Johnson Matthey, Kyocera, etc.

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

Market Segmentation

Piezo Stack Actuators 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

Resin-coated Type Actuators

Metal-cased Type Actuators

Market segment by Application

Automotive

Medical

Military

Consumer Electronics

Industrial and Manufacturing

Others

Major players covered

TDK Corporation

KEMET

Thorlabs

NGK Group

Piezo Direct

Tokin

CTS (Noliac)

TAIYO YUDEN

Johnson Matthey

Kyocera

Physik Instrumente (PI) Group

Piezosystem Jena

APC International

Kinetic Ceramics

DSM

Steminc

PiezoDrive

Sinocera Piezotronics

LIDIT International

Peng Xiang technology

Bangci Technology

Core Tomorrow

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

Chapter 2, to profile the top manufacturers of Piezo Stack Actuators, with price, sales quantity, revenue, and global market share of Piezo Stack Actuators from 2020 to 2025.

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

Chapter 4, the Piezo Stack Actuators 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 Piezo Stack Actuators 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 Piezo Stack Actuators.

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

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