

Global Piezoelectric Stack Actuator 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 Stack Actuator market size was valued at US\$ 895 million in 2023 and is forecast to a readjusted size of USD 1324 million by 2030 with a CAGR of 5.4% during review period.

Piezoelectric actuators are micro-displacement actuators made using the inverse piezoelectric effect of piezoelectric materials. They have the characteristics of fast response speed, high control accuracy, high output torque density, and low operating noise. They are widely used in precision positioning, motors, and vibration suppression. At the same time, because the performance of piezoelectric actuators is not sensitive to size, in the small size range (mm to cm), compared with traditional electromagnetic actuators, they have relatively high power density, large driving force, and relatively high efficiency.

Since the output displacement of piezoelectric ceramic actuators based on single-chip piezoelectric ceramic chips is relatively small, a certain process is often used to stack multiple piezoelectric ceramic chips and electrodes to form a piezoelectric stack actuator to increase the output displacement.

In terms of consumption, Europe is currently the world's largest consumer market, with a market revenue share of 28%, followed by North America and China, accounting for 24% and 17% respectively.

From the production side, North America, Europe and Japan are three important production regions, accounting for 22%, 38% and 31% of the market share in 2023 respectively.

Piezoelectric stack actuators are divided into high-voltage actuators and low-voltage actuators. From the perspective of product type, high-voltage actuators occupy an important position. At the same time, in terms of application, the revenue share of

industry and manufacturing is about 39%.

From the perspective of manufacturers, the core manufacturers of piezoelectric stack actuators worldwide mainly include TDK, Murata, KEMET, CTS, Taiyo Yuden and Physik Instrumente (PI) Group. The TOP5 account for a total of 69% of the revenue share.

Piezoelectric stack actuators are widely used in precision positioning, motor drive, vibration suppression, fuel injection control, suspension system adjustment and other fields. With the continuous development of these fields, the demand for piezoelectric stack actuators is also increasing. Especially in industries such as automobiles, industrial automation, and consumer electronics, piezoelectric stack actuators have become an indispensable key component. At present, a new round of global scientific and technological revolution and industrial transformation is booming. The integration of automobiles and related technologies in energy, transportation, information and communication fields is accelerating. Electrification, networking and intelligence have become the development trend and trend of the automobile industry. New energy vehicles integrate new energy, new materials, the Internet, big data, artificial intelligence and other transformative technologies, promote the transformation of automobiles from simple transportation tools to mobile intelligent terminals, energy storage units and digital spaces, drive the transformation and upgrading of energy, transportation, information and communication infrastructure, promote the optimization of energy consumption structure, and improve the level of intelligent transportation system and urban operation. It is of great significance to build a clean and beautiful world and build a community with a shared future for mankind. In recent years, the world's major automobile powers have strengthened strategic planning and policy support, multinational automobile companies have increased R&D investment and improved industrial layout, and new energy vehicles have become the main direction of the transformation and development of the global automobile industry and an important engine for promoting the sustained growth of the world economy.

This report is a detailed and comprehensive analysis for global Piezoelectric Stack Actuator 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 2024, are provided.

Key Features:

Global Piezoelectric Stack Actuator market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Piezoelectric Stack Actuator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Piezoelectric Stack Actuator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Piezoelectric Stack Actuator market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2019-2024

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 Piezoelectric Stack Actuator

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 Piezoelectric Stack Actuator 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, Murata Manufacturing, KEMET, CTS, Taiyo Yuden, Physik Instrumente (PI) Group, Piezosystem Jena, APC International, DSM, Cedrat Technologies, etc.

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

Market Segmentation

Piezoelectric Stack Actuator 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- High-voltage Actuator
- Low-voltage Actuator

Market segment by Application

- Industry and Manufacturing

- Automobile
- Consumer Electronics
- Optical Instruments
- Medical
- Military
- Others

Major players covered

- TDK
- Murata Manufacturing
- KEMET
- CTS
- Taiyo Yuden
- Physik Instrumente (PI) Group
- Piezosystem Jena
- APC International
- DSM
- Cedrat Technologies
- Bangci Technology
- Suzhou Pant Piezoelectric Tech
- CoreMorrow
- Liaoning Yansheng Technology

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

Chapter 2, to profile the top manufacturers of Piezoelectric Stack Actuator, with price,

sales quantity, revenue, and global market share of Piezoelectric Stack Actuator from 2019 to 2024.

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

Chapter 4, the Piezoelectric Stack Actuator 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 by Application, with sales market share and growth rate by Type, by 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 2019 to 2024. and Piezoelectric Stack Actuator market forecast, by regions, by Type, and by 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 Stack Actuator.

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

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