

Global Co-Fired Piezo Actuators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Co-Fired Piezo Actuators market size was valued at US\$ 608 million in 2025 and is forecast to a readjusted size of US\$ 934 million by 2032 with a CAGR of 6.4% during review period.

In 2025, global Co-Fired Piezo Actuators production reached approximately 6711 K Units, with an average global market price of around 88 USD per Unit.

Co-Fired Piezo Actuators are piezoelectric actuation devices manufactured by alternately stacking green piezoelectric ceramic layers and internal electrode materials, then co-firing them into a monolithic multilayer structure. They use the inverse piezoelectric effect to convert electrical signals into micro-displacement, force, vibration, or precision positioning motion. Compared with conventional stack piezo actuators made by bonding or assembling separately fired piezoceramic plates, co-fired piezo actuators typically feature thinner ceramic layers, lower driving voltage, higher integration, better batch-to-batch consistency, and stronger miniaturization advantages. They are suitable for applications requiring low-voltage drive, fast response, and high-precision motion control, such as nanopositioning, semiconductor equipment, precision valve control, microfluidics, medical devices, precision optics, automotive electronics, haptic feedback, and high-end industrial automation.

The core advantage of Co-Fired Piezo Actuators lies in their monolithic multilayer structure, where piezoelectric ceramic layers and internal electrodes are co-fired into an integrated body, enabling fast, stable, and repeatable micro-displacement and high-precision motion output in a smaller form factor and at lower driving voltage. This helps address the limitations of conventional electromagnetic actuators in miniaturization,

response speed, nanometer-level control, low power consumption, and electromagnetic interference, while also improving consistency, compactness, and manufacturability compared with conventional bonded stack piezo actuators. As semiconductor equipment, precision optics, microfluidic medical devices, industrial jetting valves, automotive precision valve control, haptic feedback, and high-end automation systems increasingly require low-voltage, fast-response, highly reliable, and compact actuation components, co-fired piezo actuators are evolving from specialized precision parts into key enabling components for advanced manufacturing and intelligent devices. Looking ahead, as end products move toward higher precision, smaller size, smarter functionality, and lower power consumption, and as localized high-end manufacturing supply chains continue to mature, co-fired piezo actuators are expected to gain broader adoption in high-value applications such as semiconductors, medical devices, automotive electronics, consumer electronics, and industrial automation, with future growth driven by deeper penetration into premium applications, product standardization, and stronger system-level integration.

The upstream raw materials for Co-Fired Piezo Actuators mainly include piezoelectric ceramic powder, basic oxide raw materials, and electrode materials. Typical raw material suppliers include CeramTec, L3Harris, Morgan Advanced Materials, American Elements, Merck/Sigma-Aldrich, Thermo Fisher Scientific, Heraeus, and DuPont. Downstream applications are mainly in industrial and manufacturing, automotive, consumer electronics, optical instruments, medical, and military fields. Typical downstream users include Zeiss, Nikon, Canon, Bosch, Continental, Denso, Apple, Samsung, and Sony.

The production capacity of Co-Fired Piezo Actuators varies greatly due to factors such as the stability of the piezoelectric ceramic formulation, the yield of multilayer co-firing, the polarization process, microcrack control, packaging preloading, aging testing, and closed-loop calibration cycle. The industry's gross profit margin is typically between 30% and 40%.

This report is a detailed and comprehensive analysis for global Co-Fired Piezo Actuators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Stroke 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 Co-Fired Piezo Actuators market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Co-Fired Piezo Actuators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Co-Fired Piezo Actuators market size and forecasts, by Stroke and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Co-Fired Piezo Actuators market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Co-Fired Piezo Actuators

- 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 Co-Fired Piezo 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 Physik Instrumente (PI) Group, TDK, KEMET (TOKIN Corporation), CTS (Noliac), TAIYO YUDEN, Piezosystem Jena, APC International, Ltd., Thorlabs, Inc., Piezomechanik, Piezomotor Uppsala (acuvi), etc.

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

Market Segmentation

Co-Fired Piezo Actuators market is split by Stroke and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Stroke, 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 Stroke

10?m Below

10-20?m

20?m Above

Market segment by Displacement Output

Direct Stroke Stack Actuator

Amplified Stack Actuator

Market segment by Control Method

Open-loop Type

Closed-loop Type

Market segment by Application

Industrial & Manufacturing

Automotive

Consumer Electronics

Optical Instrument

Medical

Military

Others

Major players covered

Physik Instrumente (PI) Group

TDK

KEMET (TOKIN Corporation)

CTS (Noliac)

TAIYO YUDEN

Piezosystem Jena

APC International, Ltd.

Thorlabs, Inc.

Piezomechanik

Piezomotor Uppsala (acuvi)

NGK Corporation

KYOCERA Corporation

Unictron Technologies

Suzhou Pant Piezoelectric

Harbin Core Tomorrow

Shanghai Yinguang Semiconductor

Guangdong Deci 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 Co-Fired Piezo Actuators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Co-Fired Piezo Actuators, with price, sales quantity, revenue, and global market share of Co-Fired Piezo Actuators from 2021 to 2026.

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

Chapter 4, the Co-Fired Piezo Actuators breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Stroke and by Application, with sales market share and growth rate by Stroke, by Application, from 2021 to 2032.

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 2021 to 2026. and Co-Fired Piezo Actuators market forecast, by regions, by Stroke, and by Application, with sales and revenue, from 2027 to 2032.

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 Co-Fired Piezo Actuators.

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

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