

Global Co-Fired Multilayer Piezo Actuators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Co-Fired Multilayer Piezo Actuators market size is expected to reach \$ 871 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

In 2025, global Co-Fired Multilayer Piezo Actuators production reached approximately 6303 K Units, with an average global market price of around 87 USD per Unit.

Co-Fired Multilayer 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 Multilayer 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 Multilayer 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 Multilayer 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 Multilayer 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 Multilayer 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 Multilayer 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 studies the global Co-Fired Multilayer Piezo Actuators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Co-Fired Multilayer Piezo Actuators and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Co-Fired Multilayer Piezo Actuators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Co-Fired Multilayer Piezo Actuators total production and demand, 2021-2032, (K Units)

Global Co-Fired Multilayer Piezo Actuators total production value, 2021-2032, (USD Million)

Global Co-Fired Multilayer Piezo Actuators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Co-Fired Multilayer Piezo Actuators consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Co-Fired Multilayer Piezo Actuators domestic production, consumption, key domestic manufacturers and share

Global Co-Fired Multilayer Piezo Actuators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Co-Fired Multilayer Piezo Actuators production by Stroke, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Co-Fired Multilayer Piezo Actuators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Co-Fired Multilayer Piezo Actuators market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Co-Fired Multilayer Piezo Actuators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Stroke, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Co-Fired Multilayer Piezo Actuators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Co-Fired Multilayer Piezo Actuators Market, Segmentation by Stroke:

10?m Below

10-20?m

20?m Above

Global Co-Fired Multilayer Piezo Actuators Market, Segmentation by Displacement Output:

Direct Stroke Stack Actuator

Amplified Stack Actuator

Global Co-Fired Multilayer Piezo Actuators Market, Segmentation by Control Method:

Open-loop Type

Closed-loop Type

Global Co-Fired Multilayer Piezo Actuators Market, Segmentation by Application:

Industrial & Manufacturing

Automotive

Consumer Electronics

Optical Instrument

Medical

Military

Others

Companies Profiled:

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 Yinguan Semiconductor

Guangdong Deci Technology

Key Questions Answered:

1. How big is the global Co-Fired Multilayer Piezo Actuators market?
2. What is the demand of the global Co-Fired Multilayer Piezo Actuators market?
3. What is the year over year growth of the global Co-Fired Multilayer Piezo Actuators market?
4. What is the production and production value of the global Co-Fired Multilayer Piezo Actuators market?
5. Who are the key producers in the global Co-Fired Multilayer Piezo Actuators market?
6. What are the growth factors driving the market demand?

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