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Global Co-Fired Piezo Actuators Market Growth 2026-2032

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Abstracts

The global Co-Fired Piezo Actuators market size is predicted to grow from US$ 578 million in 2025 to US$ 908 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

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

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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%.

United States market for Co-Fired Piezo Actuators is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Co-Fired Piezo Actuators is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Co-Fired Piezo Actuators is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Global key Co-Fired Piezo Actuators players cover Physik Instrumente (PI) Group, TDK, KEMET (TOKIN Corporation), CTS (Noliac), TAIYO YUDEN, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Co-Fired Piezo Actuators Industry Forecast” looks at past sales and reviews total world Co-Fired Piezo Actuators sales in 2025, providing a comprehensive analysis by region and market sector of projected Co-Fired Piezo Actuators sales for 2026 through 2032. With Co-Fired Piezo Actuators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Co-Fired Piezo Actuators industry.

This Insight Report provides a comprehensive analysis of the global Co-Fired Piezo Actuators landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Co-Fired Piezo Actuators portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Co-Fired Piezo Actuators market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Co-Fired Piezo Actuators and breaks down the forecast by Stroke, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Co-Fired Piezo Actuators.

This report presents a comprehensive overview, market shares, and growth opportunities of Co-Fired Piezo Actuators market by product type, application, key manufacturers and key regions and countries.

Segmentation by Stroke:

10?m Below

10-20?m

20?m Above

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Segmentation by Displacement Output:

Direct Stroke Stack Actuator

Amplified Stack Actuator

Segmentation by Control Method:

Open-loop Type

Closed-loop Type

Segmentation by Application:

Industrial & Manufacturing

Automotive

Consumer Electronics

Optical Instrument

Medical

Military

Others

This report also splits the market by region:

Americas

United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

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Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

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Shanghai Yinguan Semiconductor

Guangdong Deci Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Co-Fired Piezo Actuators market?

What factors are driving Co-Fired Piezo Actuators market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Co-Fired Piezo Actuators market opportunities vary by end market size?

How does Co-Fired Piezo Actuators break out by Stroke, by Application?

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