

# Global Closed-loop Piezo Controller 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 Closed-loop Piezo Controller market size was valued at US\$ 371 million in 2025 and is forecast to a readjusted size of US\$ 530 million by 2032 with a CAGR of 5.0% during review period.

In 2025, the Closed-loop Piezo Controller market was estimated at \$361 million, with sales of approximately 100,000 units and an average selling price of approximately \$3,500 per unit, resulting in a gross margin of 41%. A closed-loop piezoelectric controller is a high-precision drive and control device based on the piezoelectric effect. It uses built-in sensors to collect displacement, pressure, or strain signals in real time, compares them with set values, and automatically corrects the output voltage to achieve high-precision positioning and stable control. Compared to open-loop control, it features high positioning accuracy, good linearity, fast response speed, and strong anti-interference capabilities, effectively eliminating errors such as hysteresis and creep in piezoelectric materials. The product is widely used in semiconductor equipment, precision optics, micro-nano manipulation, ultra-precision machining, and automated inspection systems.

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

Global Closed-loop Piezo Controller 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 Closed-loop Piezo Controller market size and forecasts, by Type and by Number of Channels, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Closed-loop Piezo Controller 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 Closed-loop Piezo Controller

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 Closed-loop Piezo Controller 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, Matsusada Precision Inc, Piezosystem Jena GmbH, Thorlabs, Inc, Cedrat Technologies, Dynamic Structures & Materials, Inc, Mad City Labs, Harbin Core Tomorrow Science & Technology Co., Ltd, Newport, Buyan Nanodisplacement Technology (Shanghai) Co., Ltd, etc.

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

### **Market Segmentation**

Closed-loop Piezo Controller market is split by Type and by Number of Channels. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Number of Channels in terms of volume and value. This analysis can help you expand your business by targeting

qualified niche markets.

#### Market segment by Type

One Channel

Dual Channel

Multi Channel

#### Market segment by Structure Type

Modular

Integrated

Others

#### Market segment by Control Mode

Digital Closed-loop

Analog Closed-loop

Others

#### Market segment by Operating Temperature

Room Temperature

Ultra-low Temperature Dedicated

#### Market segment by Number of Channels

Semiconductor

Biomedical

Optics

Industrial Automation

Scientific Research

Aerospace

#### Major players covered

Physik Instrumente

Matsusada Precision Inc

Piezosystem Jena GmbH

Thorlabs, Inc

Cedrat Technologies

Dynamic Structures & Materials, Inc

Mad City Labs

Harbin Core Tomorrow Science & Technology Co., Ltd

Newport

Buyan Nanodisplacement Technology (Shanghai) Co., Ltd

Multi-field Low Temperature Technology (Beijing) Co., Ltd

THK Precision Co., Ltd

Guangdong Deci Technology Co., Ltd

SmarAct GmbH

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 Closed-loop Piezo Controller product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Closed-loop Piezo Controller 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 Type and by Number of Channels, with sales market share and growth rate by Type, by Number of Channels, 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 Closed-loop Piezo Controller market forecast, by regions, by Type, and by Number of Channels, 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 Closed-loop Piezo Controller.

Chapter 14 and 15, to describe Closed-loop Piezo Controller sales channel, distributors, customers, research findings and conclusion.

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