

# Global Closed-loop Piezo Controller Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Closed-loop Piezo Controller market size is expected to reach \$ 530 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

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 studies the global Closed-loop Piezo Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Closed-loop Piezo Controller 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 Closed-loop Piezo Controller that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Closed-loop Piezo Controller total production and demand, 2021-2032, (K Units)

Global Closed-loop Piezo Controller total production value, 2021-2032, (USD Million)

Global Closed-loop Piezo Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Closed-loop Piezo Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Closed-loop Piezo Controller domestic production, consumption, key domestic manufacturers and share

Global Closed-loop Piezo Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Closed-loop Piezo Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Closed-loop Piezo Controller production by Number of Channels, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Closed-loop Piezo Controller 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Closed-loop Piezo Controller 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 Type, and by Number of Channels. 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 Closed-loop Piezo Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Closed-loop Piezo Controller Market, Segmentation by Type:

One Channel

Dual Channel

Multi Channel

#### Global Closed-loop Piezo Controller Market, Segmentation by Structure Type:

Modular

Integrated

Others

#### Global Closed-loop Piezo Controller Market, Segmentation by Control Mode:

Digital Closed-loop

Analog Closed-loop

Others

#### Global Closed-loop Piezo Controller Market, Segmentation by Operating Temperature:

Room Temperature

Ultra-low Temperature Dedicated

#### Global Closed-loop Piezo Controller Market, Segmentation by Number of Channels:

Semiconductor

Biomedical

Optics

Industrial Automation

Scientific Research

Aerospace

#### Companies Profiled:

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

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Closed-loop Piezo Controller Introduction
- 1.2 World Closed-loop Piezo Controller Supply & Forecast
  - 1.2.1 World Closed-loop Piezo Controller Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Closed-loop Piezo Controller Production (2021-2032)
  - 1.2.3 World Closed-loop Piezo Controller Pricing Trends (2021-2032)
- 1.3 World Closed-loop Piezo Controller Production by Region (Based on Production Site)
  - 1.3.1 World Closed-loop Piezo Controller Production Value by Region (2021-2032)
  - 1.3.2 World Closed-loop Piezo Controller Production by Region (2021-2032)
  - 1.3.3 World Closed-loop Piezo Controller Average Price by Region (2021-2032)
  - 1.3.4 North America Closed-loop Piezo Controller Production (2021-2032)
  - 1.3.5 Europe Closed-loop Piezo Controller Production (2021-2032)
  - 1.3.6 China Closed-loop Piezo Controller Production (2021-2032)
  - 1.3.7 Japan Closed-loop Piezo Controller Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Closed-loop Piezo Controller Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Closed-loop Piezo Controller Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Closed-loop Piezo Controller Demand (2021-2032)
- 2.2 World Closed-loop Piezo Controller Consumption by Region
  - 2.2.1 World Closed-loop Piezo Controller Consumption by Region (2021-2026)
  - 2.2.2 World Closed-loop Piezo Controller Consumption Forecast by Region (2027-2032)
- 2.3 United States Closed-loop Piezo Controller Consumption (2021-2032)
- 2.4 China Closed-loop Piezo Controller Consumption (2021-2032)
- 2.5 Europe Closed-loop Piezo Controller Consumption (2021-2032)
- 2.6 Japan Closed-loop Piezo Controller Consumption (2021-2032)
- 2.7 South Korea Closed-loop Piezo Controller Consumption (2021-2032)
- 2.8 ASEAN Closed-loop Piezo Controller Consumption (2021-2032)
- 2.9 India Closed-loop Piezo Controller Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Closed-loop Piezo Controller Production Value by Manufacturer (2021-2026)
- 3.2 World Closed-loop Piezo Controller Production by Manufacturer (2021-2026)
- 3.3 World Closed-loop Piezo Controller Average Price by Manufacturer (2021-2026)
- 3.4 Closed-loop Piezo Controller Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Closed-loop Piezo Controller Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Closed-loop Piezo Controller in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Closed-loop Piezo Controller in 2025
- 3.6 Closed-loop Piezo Controller Market: Overall Company Footprint Analysis
  - 3.6.1 Closed-loop Piezo Controller Market: Region Footprint
  - 3.6.2 Closed-loop Piezo Controller Market: Company Product Type Footprint
  - 3.6.3 Closed-loop Piezo Controller Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Closed-loop Piezo Controller Production Value Comparison
  - 4.1.1 United States VS China: Closed-loop Piezo Controller Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Closed-loop Piezo Controller Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Closed-loop Piezo Controller Production Comparison
  - 4.2.1 United States VS China: Closed-loop Piezo Controller Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Closed-loop Piezo Controller Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Closed-loop Piezo Controller Consumption Comparison
  - 4.3.1 United States VS China: Closed-loop Piezo Controller Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Closed-loop Piezo Controller Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Closed-loop Piezo Controller Manufacturers and Market Share,

## 2021-2026

4.4.1 United States Based Closed-loop Piezo Controller Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Closed-loop Piezo Controller Production Value (2021-2026)

4.4.3 United States Based Manufacturers Closed-loop Piezo Controller Production (2021-2026)

4.5 China Based Closed-loop Piezo Controller Manufacturers and Market Share

4.5.1 China Based Closed-loop Piezo Controller Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Closed-loop Piezo Controller Production Value (2021-2026)

4.5.3 China Based Manufacturers Closed-loop Piezo Controller Production (2021-2026)

4.6 Rest of World Based Closed-loop Piezo Controller Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Closed-loop Piezo Controller Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Closed-loop Piezo Controller Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Closed-loop Piezo Controller Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Closed-loop Piezo Controller Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 One Channel

5.2.2 Dual Channel

5.2.3 Multi Channel

5.3 Market Segment by Type

5.3.1 World Closed-loop Piezo Controller Production by Type (2021-2032)

5.3.2 World Closed-loop Piezo Controller Production Value by Type (2021-2032)

5.3.3 World Closed-loop Piezo Controller Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY STRUCTURE TYPE**

6.1 World Closed-loop Piezo Controller Market Size Overview by Structure Type: 2021

VS 2025 VS 2032

## 6.2 Segment Introduction by Structure Type

6.2.1 Modular

6.2.2 Integrated

6.2.3 Others

## 6.3 Market Segment by Structure Type

6.3.1 World Closed-loop Piezo Controller Production by Structure Type (2021-2032)

6.3.2 World Closed-loop Piezo Controller Production Value by Structure Type (2021-2032)

6.3.3 World Closed-loop Piezo Controller Average Price by Structure Type (2021-2032)

# 7 MARKET ANALYSIS BY CONTROL MODE

7.1 World Closed-loop Piezo Controller Market Size Overview by Control Mode: 2021 VS 2025 VS 2032

## 7.2 Segment Introduction by Control Mode

7.2.1 Digital Closed-loop

7.2.2 Analog Closed-loop

7.2.3 Others

## 7.3 Market Segment by Control Mode

7.3.1 World Closed-loop Piezo Controller Production by Control Mode (2021-2032)

7.3.2 World Closed-loop Piezo Controller Production Value by Control Mode (2021-2032)

7.3.3 World Closed-loop Piezo Controller Average Price by Control Mode (2021-2032)

# 8 MARKET ANALYSIS BY OPERATING TEMPERATURE

8.1 World Closed-loop Piezo Controller Market Size Overview by Operating Temperature: 2021 VS 2025 VS 2032

## 8.2 Segment Introduction by Operating Temperature

8.2.1 Room Temperature

8.2.2 Ultra-low Temperature Dedicated

## 8.3 Market Segment by Operating Temperature

8.3.1 World Closed-loop Piezo Controller Production by Operating Temperature (2021-2032)

8.3.2 World Closed-loop Piezo Controller Production Value by Operating Temperature (2021-2032)

8.3.3 World Closed-loop Piezo Controller Average Price by Operating Temperature

(2021-2032)

## **9 MARKET ANALYSIS BY NUMBER OF CHANNELS**

9.1 World Closed-loop Piezo Controller Market Size Overview by Number of Channels:  
2021 VS 2025 VS 2032

9.2 Segment Introduction by Number of Channels

9.2.1 Semiconductor

9.2.2 Biomedical

9.2.3 Optics

9.2.4 Industrial Automation

9.2.5 Scientific Research

9.2.6 Aerospace

9.3 Market Segment by Number of Channels

9.3.1 World Closed-loop Piezo Controller Production by Number of Channels  
(2021-2032)

9.3.2 World Closed-loop Piezo Controller Production Value by Number of Channels  
(2021-2032)

9.3.3 World Closed-loop Piezo Controller Average Price by Number of Channels  
(2021-2032)

## **10 COMPANY PROFILES**

10.1 Physik Instrumente

10.1.1 Physik Instrumente Details

10.1.2 Physik Instrumente Major Business

10.1.3 Physik Instrumente Closed-loop Piezo Controller Product and Services

10.1.4 Physik Instrumente Closed-loop Piezo Controller Production, Price, Value,  
Gross Margin and Market Share (2021-2026)

10.1.5 Physik Instrumente Recent Developments/Updates

10.1.6 Physik Instrumente Competitive Strengths & Weaknesses

10.2 Matsusada Precision Inc

10.2.1 Matsusada Precision Inc Details

10.2.2 Matsusada Precision Inc Major Business

10.2.3 Matsusada Precision Inc Closed-loop Piezo Controller Product and Services

10.2.4 Matsusada Precision Inc Closed-loop Piezo Controller Production, Price, Value,  
Gross Margin and Market Share (2021-2026)

10.2.5 Matsusada Precision Inc Recent Developments/Updates

10.2.6 Matsusada Precision Inc Competitive Strengths & Weaknesses

### 10.3 Piezosystem Jena GmbH

#### 10.3.1 Piezosystem Jena GmbH Details

#### 10.3.2 Piezosystem Jena GmbH Major Business

#### 10.3.3 Piezosystem Jena GmbH Closed-loop Piezo Controller Product and Services

#### 10.3.4 Piezosystem Jena GmbH Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 10.3.5 Piezosystem Jena GmbH Recent Developments/Updates

#### 10.3.6 Piezosystem Jena GmbH Competitive Strengths & Weaknesses

### 10.4 Thorlabs, Inc

#### 10.4.1 Thorlabs, Inc Details

#### 10.4.2 Thorlabs, Inc Major Business

#### 10.4.3 Thorlabs, Inc Closed-loop Piezo Controller Product and Services

#### 10.4.4 Thorlabs, Inc Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 10.4.5 Thorlabs, Inc Recent Developments/Updates

#### 10.4.6 Thorlabs, Inc Competitive Strengths & Weaknesses

### 10.5 Cedrat Technologies

#### 10.5.1 Cedrat Technologies Details

#### 10.5.2 Cedrat Technologies Major Business

#### 10.5.3 Cedrat Technologies Closed-loop Piezo Controller Product and Services

#### 10.5.4 Cedrat Technologies Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 10.5.5 Cedrat Technologies Recent Developments/Updates

#### 10.5.6 Cedrat Technologies Competitive Strengths & Weaknesses

### 10.6 Dynamic Structures & Materials, Inc

#### 10.6.1 Dynamic Structures & Materials, Inc Details

#### 10.6.2 Dynamic Structures & Materials, Inc Major Business

#### 10.6.3 Dynamic Structures & Materials, Inc Closed-loop Piezo Controller Product and Services

#### 10.6.4 Dynamic Structures & Materials, Inc Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 10.6.5 Dynamic Structures & Materials, Inc Recent Developments/Updates

#### 10.6.6 Dynamic Structures & Materials, Inc Competitive Strengths & Weaknesses

### 10.7 Mad City Labs

#### 10.7.1 Mad City Labs Details

#### 10.7.2 Mad City Labs Major Business

#### 10.7.3 Mad City Labs Closed-loop Piezo Controller Product and Services

#### 10.7.4 Mad City Labs Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.7.5 Mad City Labs Recent Developments/Updates
- 10.7.6 Mad City Labs Competitive Strengths & Weaknesses
- 10.8 Harbin Core Tomorrow Science & Technology Co., Ltd
  - 10.8.1 Harbin Core Tomorrow Science & Technology Co., Ltd Details
  - 10.8.2 Harbin Core Tomorrow Science & Technology Co., Ltd Major Business
  - 10.8.3 Harbin Core Tomorrow Science & Technology Co., Ltd Closed-loop Piezo Controller Product and Services
  - 10.8.4 Harbin Core Tomorrow Science & Technology Co., Ltd Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.8.5 Harbin Core Tomorrow Science & Technology Co., Ltd Recent Developments/Updates
  - 10.8.6 Harbin Core Tomorrow Science & Technology Co., Ltd Competitive Strengths & Weaknesses
- 10.9 Newport
  - 10.9.1 Newport Details
  - 10.9.2 Newport Major Business
  - 10.9.3 Newport Closed-loop Piezo Controller Product and Services
  - 10.9.4 Newport Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.9.5 Newport Recent Developments/Updates
  - 10.9.6 Newport Competitive Strengths & Weaknesses
- 10.10 Buyan Nanodisplacement Technology (Shanghai) Co., Ltd
  - 10.10.1 Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Details
  - 10.10.2 Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Major Business
  - 10.10.3 Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Closed-loop Piezo Controller Product and Services
  - 10.10.4 Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.10.5 Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Recent Developments/Updates
  - 10.10.6 Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Competitive Strengths & Weaknesses
- 10.11 Multi-field Low Temperature Technology (Beijing) Co., Ltd
  - 10.11.1 Multi-field Low Temperature Technology (Beijing) Co., Ltd Details
  - 10.11.2 Multi-field Low Temperature Technology (Beijing) Co., Ltd Major Business
  - 10.11.3 Multi-field Low Temperature Technology (Beijing) Co., Ltd Closed-loop Piezo Controller Product and Services
  - 10.11.4 Multi-field Low Temperature Technology (Beijing) Co., Ltd Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.11.5 Multi-field Low Temperature Technology (Beijing) Co., Ltd Recent Developments/Updates
- 10.11.6 Multi-field Low Temperature Technology (Beijing) Co., Ltd Competitive Strengths & Weaknesses
- 10.12 THK Precision Co., Ltd
  - 10.12.1 THK Precision Co., Ltd Details
  - 10.12.2 THK Precision Co., Ltd Major Business
  - 10.12.3 THK Precision Co., Ltd Closed-loop Piezo Controller Product and Services
  - 10.12.4 THK Precision Co., Ltd Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.12.5 THK Precision Co., Ltd Recent Developments/Updates
  - 10.12.6 THK Precision Co., Ltd Competitive Strengths & Weaknesses
- 10.13 Guangdong Deci Technology Co., Ltd
  - 10.13.1 Guangdong Deci Technology Co., Ltd Details
  - 10.13.2 Guangdong Deci Technology Co., Ltd Major Business
  - 10.13.3 Guangdong Deci Technology Co., Ltd Closed-loop Piezo Controller Product and Services
  - 10.13.4 Guangdong Deci Technology Co., Ltd Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.13.5 Guangdong Deci Technology Co., Ltd Recent Developments/Updates
  - 10.13.6 Guangdong Deci Technology Co., Ltd Competitive Strengths & Weaknesses
- 10.14 SmarAct GmbH
  - 10.14.1 SmarAct GmbH Details
  - 10.14.2 SmarAct GmbH Major Business
  - 10.14.3 SmarAct GmbH Closed-loop Piezo Controller Product and Services
  - 10.14.4 SmarAct GmbH Closed-loop Piezo Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.14.5 SmarAct GmbH Recent Developments/Updates
  - 10.14.6 SmarAct GmbH Competitive Strengths & Weaknesses

## **11 INDUSTRY CHAIN ANALYSIS**

- 11.1 Closed-loop Piezo Controller Industry Chain
- 11.2 Closed-loop Piezo Controller Upstream Analysis
  - 11.2.1 Closed-loop Piezo Controller Core Raw Materials
  - 11.2.2 Main Manufacturers of Closed-loop Piezo Controller Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Closed-loop Piezo Controller Production Mode

11.6 Closed-loop Piezo Controller Procurement Model

11.7 Closed-loop Piezo Controller Industry Sales Model and Sales Channels

11.7.1 Closed-loop Piezo Controller Sales Model

11.7.2 Closed-loop Piezo Controller Typical Distributors

## **12 RESEARCH FINDINGS AND CONCLUSION**

## **13 APPENDIX**

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Closed-loop Piezo Controller Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Closed-loop Piezo Controller Production Value by Region (2021-2026) & (USD Million)

Table 3. World Closed-loop Piezo Controller Production Value by Region (2027-2032) & (USD Million)

Table 4. World Closed-loop Piezo Controller Production Value Market Share by Region (2021-2026)

Table 5. World Closed-loop Piezo Controller Production Value Market Share by Region (2027-2032)

Table 6. World Closed-loop Piezo Controller Production by Region (2021-2026) & (K Units)

Table 7. World Closed-loop Piezo Controller Production by Region (2027-2032) & (K Units)

Table 8. World Closed-loop Piezo Controller Production Market Share by Region (2021-2026)

Table 9. World Closed-loop Piezo Controller Production Market Share by Region (2027-2032)

Table 10. World Closed-loop Piezo Controller Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Closed-loop Piezo Controller Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Closed-loop Piezo Controller Major Market Trends

Table 13. World Closed-loop Piezo Controller Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Closed-loop Piezo Controller Consumption by Region (2021-2026) & (K Units)

Table 15. World Closed-loop Piezo Controller Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Closed-loop Piezo Controller Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Closed-loop Piezo Controller Producers in 2025

Table 18. World Closed-loop Piezo Controller Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Closed-loop Piezo Controller Producers in 2025

Table 20. World Closed-loop Piezo Controller Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Closed-loop Piezo Controller Company Evaluation Quadrant

Table 22. World Closed-loop Piezo Controller Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Closed-loop Piezo Controller Production Site of Key Manufacturer

Table 24. Closed-loop Piezo Controller Market: Company Product Type Footprint

Table 25. Closed-loop Piezo Controller Market: Company Product Application Footprint

Table 26. Closed-loop Piezo Controller Competitive Factors

Table 27. Closed-loop Piezo Controller New Entrant and Capacity Expansion Plans

Table 28. Closed-loop Piezo Controller Mergers & Acquisitions Activity

Table 29. United States VS China Closed-loop Piezo Controller Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Closed-loop Piezo Controller Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Closed-loop Piezo Controller Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Closed-loop Piezo Controller Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Closed-loop Piezo Controller Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Closed-loop Piezo Controller Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Closed-loop Piezo Controller Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Closed-loop Piezo Controller Production Market Share (2021-2026)

Table 37. China Based Closed-loop Piezo Controller Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Closed-loop Piezo Controller Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Closed-loop Piezo Controller Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Closed-loop Piezo Controller Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Closed-loop Piezo Controller Production Market

Share (2021-2026)

Table 42. Rest of World Based Closed-loop Piezo Controller Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Closed-loop Piezo Controller Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Closed-loop Piezo Controller Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Closed-loop Piezo Controller Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Closed-loop Piezo Controller Production Market Share (2021-2026)

Table 47. World Closed-loop Piezo Controller Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Closed-loop Piezo Controller Production by Type (2021-2026) & (K Units)

Table 49. World Closed-loop Piezo Controller Production by Type (2027-2032) & (K Units)

Table 50. World Closed-loop Piezo Controller Production Value by Type (2021-2026) & (USD Million)

Table 51. World Closed-loop Piezo Controller Production Value by Type (2027-2032) & (USD Million)

Table 52. World Closed-loop Piezo Controller Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Closed-loop Piezo Controller Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Closed-loop Piezo Controller Production Value by Structure Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Closed-loop Piezo Controller Production by Structure Type (2021-2026) & (K Units)

Table 56. World Closed-loop Piezo Controller Production by Structure Type (2027-2032) & (K Units)

Table 57. World Closed-loop Piezo Controller Production Value by Structure Type (2021-2026) & (USD Million)

Table 58. World Closed-loop Piezo Controller Production Value by Structure Type (2027-2032) & (USD Million)

Table 59. World Closed-loop Piezo Controller Average Price by Structure Type (2021-2026) & (US\$/Unit)

Table 60. World Closed-loop Piezo Controller Average Price by Structure Type (2027-2032) & (US\$/Unit)

Table 61. World Closed-loop Piezo Controller Production Value by Control Mode, (USD Million), 2021 & 2025 & 2032

Table 62. World Closed-loop Piezo Controller Production by Control Mode (2021-2026) & (K Units)

Table 63. World Closed-loop Piezo Controller Production by Control Mode (2027-2032) & (K Units)

Table 64. World Closed-loop Piezo Controller Production Value by Control Mode (2021-2026) & (USD Million)

Table 65. World Closed-loop Piezo Controller Production Value by Control Mode (2027-2032) & (USD Million)

Table 66. World Closed-loop Piezo Controller Average Price by Control Mode (2021-2026) & (US\$/Unit)

Table 67. World Closed-loop Piezo Controller Average Price by Control Mode (2027-2032) & (US\$/Unit)

Table 68. World Closed-loop Piezo Controller Production Value by Operating Temperature, (USD Million), 2021 & 2025 & 2032

Table 69. World Closed-loop Piezo Controller Production by Operating Temperature (2021-2026) & (K Units)

Table 70. World Closed-loop Piezo Controller Production by Operating Temperature (2027-2032) & (K Units)

Table 71. World Closed-loop Piezo Controller Production Value by Operating Temperature (2021-2026) & (USD Million)

Table 72. World Closed-loop Piezo Controller Production Value by Operating Temperature (2027-2032) & (USD Million)

Table 73. World Closed-loop Piezo Controller Average Price by Operating Temperature (2021-2026) & (US\$/Unit)

Table 74. World Closed-loop Piezo Controller Average Price by Operating Temperature (2027-2032) & (US\$/Unit)

Table 75. World Closed-loop Piezo Controller Production Value by Number of Channels, (USD Million), 2021 & 2025 & 2032

Table 76. World Closed-loop Piezo Controller Production by Number of Channels (2021-2026) & (K Units)

Table 77. World Closed-loop Piezo Controller Production by Number of Channels (2027-2032) & (K Units)

Table 78. World Closed-loop Piezo Controller Production Value by Number of Channels (2021-2026) & (USD Million)

Table 79. World Closed-loop Piezo Controller Production Value by Number of Channels (2027-2032) & (USD Million)

Table 80. World Closed-loop Piezo Controller Average Price by Number of Channels

(2021-2026) & (US\$/Unit)

Table 81. World Closed-loop Piezo Controller Average Price by Number of Channels (2027-2032) & (US\$/Unit)

Table 82. Physik Instrumente Basic Information, Manufacturing Base and Competitors

Table 83. Physik Instrumente Major Business

Table 84. Physik Instrumente Closed-loop Piezo Controller Product and Services

Table 85. Physik Instrumente Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Physik Instrumente Recent Developments/Updates

Table 87. Physik Instrumente Competitive Strengths & Weaknesses

Table 88. Matsusada Precision Inc Basic Information, Manufacturing Base and Competitors

Table 89. Matsusada Precision Inc Major Business

Table 90. Matsusada Precision Inc Closed-loop Piezo Controller Product and Services

Table 91. Matsusada Precision Inc Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Matsusada Precision Inc Recent Developments/Updates

Table 93. Matsusada Precision Inc Competitive Strengths & Weaknesses

Table 94. Piezosystem Jena GmbH Basic Information, Manufacturing Base and Competitors

Table 95. Piezosystem Jena GmbH Major Business

Table 96. Piezosystem Jena GmbH Closed-loop Piezo Controller Product and Services

Table 97. Piezosystem Jena GmbH Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Piezosystem Jena GmbH Recent Developments/Updates

Table 99. Piezosystem Jena GmbH Competitive Strengths & Weaknesses

Table 100. Thorlabs, Inc Basic Information, Manufacturing Base and Competitors

Table 101. Thorlabs, Inc Major Business

Table 102. Thorlabs, Inc Closed-loop Piezo Controller Product and Services

Table 103. Thorlabs, Inc Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Thorlabs, Inc Recent Developments/Updates

Table 105. Thorlabs, Inc Competitive Strengths & Weaknesses

Table 106. Cedrat Technologies Basic Information, Manufacturing Base and Competitors

Table 107. Cedrat Technologies Major Business

Table 108. Cedrat Technologies Closed-loop Piezo Controller Product and Services

Table 109. Cedrat Technologies Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Cedrat Technologies Recent Developments/Updates

Table 111. Cedrat Technologies Competitive Strengths & Weaknesses

Table 112. Dynamic Structures & Materials, Inc Basic Information, Manufacturing Base and Competitors

Table 113. Dynamic Structures & Materials, Inc Major Business

Table 114. Dynamic Structures & Materials, Inc Closed-loop Piezo Controller Product and Services

Table 115. Dynamic Structures & Materials, Inc Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Dynamic Structures & Materials, Inc Recent Developments/Updates

Table 117. Dynamic Structures & Materials, Inc Competitive Strengths & Weaknesses

Table 118. Mad City Labs Basic Information, Manufacturing Base and Competitors

Table 119. Mad City Labs Major Business

Table 120. Mad City Labs Closed-loop Piezo Controller Product and Services

Table 121. Mad City Labs Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Mad City Labs Recent Developments/Updates

Table 123. Mad City Labs Competitive Strengths & Weaknesses

Table 124. Harbin Core Tomorrow Science & Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 125. Harbin Core Tomorrow Science & Technology Co., Ltd Major Business

Table 126. Harbin Core Tomorrow Science & Technology Co., Ltd Closed-loop Piezo Controller Product and Services

Table 127. Harbin Core Tomorrow Science & Technology Co., Ltd Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Harbin Core Tomorrow Science & Technology Co., Ltd Recent Developments/Updates

Table 129. Harbin Core Tomorrow Science & Technology Co., Ltd Competitive Strengths & Weaknesses

Table 130. Newport Basic Information, Manufacturing Base and Competitors

Table 131. Newport Major Business

- Table 132. Newport Closed-loop Piezo Controller Product and Services
- Table 133. Newport Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 134. Newport Recent Developments/Updates
- Table 135. Newport Competitive Strengths & Weaknesses
- Table 136. Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 137. Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Major Business
- Table 138. Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Closed-loop Piezo Controller Product and Services
- Table 139. Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 140. Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Recent Developments/Updates
- Table 141. Buyan Nanodisplacement Technology (Shanghai) Co., Ltd Competitive Strengths & Weaknesses
- Table 142. Multi-field Low Temperature Technology (Beijing) Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 143. Multi-field Low Temperature Technology (Beijing) Co., Ltd Major Business
- Table 144. Multi-field Low Temperature Technology (Beijing) Co., Ltd Closed-loop Piezo Controller Product and Services
- Table 145. Multi-field Low Temperature Technology (Beijing) Co., Ltd Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 146. Multi-field Low Temperature Technology (Beijing) Co., Ltd Recent Developments/Updates
- Table 147. Multi-field Low Temperature Technology (Beijing) Co., Ltd Competitive Strengths & Weaknesses
- Table 148. THK Precision Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 149. THK Precision Co., Ltd Major Business
- Table 150. THK Precision Co., Ltd Closed-loop Piezo Controller Product and Services
- Table 151. THK Precision Co., Ltd Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 152. THK Precision Co., Ltd Recent Developments/Updates
- Table 153. THK Precision Co., Ltd Competitive Strengths & Weaknesses

Table 154. Guangdong Deci Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 155. Guangdong Deci Technology Co., Ltd Major Business

Table 156. Guangdong Deci Technology Co., Ltd Closed-loop Piezo Controller Product and Services

Table 157. Guangdong Deci Technology Co., Ltd Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Guangdong Deci Technology Co., Ltd Recent Developments/Updates

Table 159. Guangdong Deci Technology Co., Ltd Competitive Strengths & Weaknesses

Table 160. SmarAct GmbH Basic Information, Manufacturing Base and Competitors

Table 161. SmarAct GmbH Major Business

Table 162. SmarAct GmbH Closed-loop Piezo Controller Product and Services

Table 163. SmarAct GmbH Closed-loop Piezo Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. SmarAct GmbH Recent Developments/Updates

Table 165. SmarAct GmbH Competitive Strengths & Weaknesses

Table 166. Global Key Players of Closed-loop Piezo Controller Upstream (Raw Materials)

Table 167. Global Closed-loop Piezo Controller Typical Customers

Table 168. Closed-loop Piezo Controller Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Closed-loop Piezo Controller Picture

Figure 2. World Closed-loop Piezo Controller Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Closed-loop Piezo Controller Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Closed-loop Piezo Controller Production (2021-2032) & (K Units)

Figure 5. World Closed-loop Piezo Controller Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Closed-loop Piezo Controller Production Value Market Share by Region (2021-2032)

Figure 7. World Closed-loop Piezo Controller Production Market Share by Region (2021-2032)

Figure 8. North America Closed-loop Piezo Controller Production (2021-2032) & (K Units)

Figure 9. Europe Closed-loop Piezo Controller Production (2021-2032) & (K Units)

Figure 10. China Closed-loop Piezo Controller Production (2021-2032) & (K Units)

Figure 11. Japan Closed-loop Piezo Controller Production (2021-2032) & (K Units)

Figure 12. Closed-loop Piezo Controller Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 15. World Closed-loop Piezo Controller Consumption Market Share by Region (2021-2032)

Figure 16. United States Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 17. China Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 18. Europe Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 19. Japan Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 20. South Korea Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 22. India Closed-loop Piezo Controller Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Closed-loop Piezo Controller by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Closed-loop Piezo Controller Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Closed-loop Piezo

## Controller Markets in 2025

Figure 26. United States VS China: Closed-loop Piezo Controller Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Closed-loop Piezo Controller Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Closed-loop Piezo Controller Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Closed-loop Piezo Controller Production Market Share 2025

Figure 30. China Based Manufacturers Closed-loop Piezo Controller Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Closed-loop Piezo Controller Production Market Share 2025

Figure 32. World Closed-loop Piezo Controller Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Closed-loop Piezo Controller Production Value Market Share by Type in 2025

Figure 34. One Channel

Figure 35. Dual Channel

Figure 36. Multi Channel

Figure 37. World Closed-loop Piezo Controller Production Market Share by Type (2021-2032)

Figure 38. World Closed-loop Piezo Controller Production Value Market Share by Type (2021-2032)

Figure 39. World Closed-loop Piezo Controller Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Closed-loop Piezo Controller Production Value by Structure Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World Closed-loop Piezo Controller Production Value Market Share by Structure Type in 2025

Figure 42. Modular

Figure 43. Integrated

Figure 44. Others

Figure 45. World Closed-loop Piezo Controller Production Market Share by Structure Type (2021-2032)

Figure 46. World Closed-loop Piezo Controller Production Value Market Share by Structure Type (2021-2032)

Figure 47. World Closed-loop Piezo Controller Average Price by Structure Type (2021-2032) & (US\$/Unit)

Figure 48. World Closed-loop Piezo Controller Production Value by Control Mode, (USD Million), 2021 & 2025 & 2032

Figure 49. World Closed-loop Piezo Controller Production Value Market Share by Control Mode in 2025

Figure 50. Digital Closed-loop

Figure 51. Analog Closed-loop

Figure 52. Others

Figure 53. World Closed-loop Piezo Controller Production Market Share by Control Mode (2021-2032)

Figure 54. World Closed-loop Piezo Controller Production Value Market Share by Control Mode (2021-2032)

Figure 55. World Closed-loop Piezo Controller Average Price by Control Mode (2021-2032) & (US\$/Unit)

Figure 56. World Closed-loop Piezo Controller Production Value by Operating Temperature, (USD Million), 2021 & 2025 & 2032

Figure 57. World Closed-loop Piezo Controller Production Value Market Share by Operating Temperature in 2025

Figure 58. Room Temperature

Figure 59. Ultra-low Temperature Dedicated

Figure 60. World Closed-loop Piezo Controller Production Market Share by Operating Temperature (2021-2032)

Figure 61. World Closed-loop Piezo Controller Production Value Market Share by Operating Temperature (2021-2032)

Figure 62. World Closed-loop Piezo Controller Average Price by Operating Temperature (2021-2032) & (US\$/Unit)

Figure 63. World Closed-loop Piezo Controller Production Value by Number of Channels, (USD Million), 2021 & 2025 & 2032

Figure 64. World Closed-loop Piezo Controller Production Value Market Share by Number of Channels in 2025

Figure 65. Semiconductor

Figure 66. Biomedical

Figure 67. Optics

Figure 68. Industrial Automation

Figure 69. Scientific Research

Figure 70. Aerospace

Figure 71. World Closed-loop Piezo Controller Production Market Share by Number of Channels (2021-2032)

Figure 72. World Closed-loop Piezo Controller Production Value Market Share by Number of Channels (2021-2032)

Figure 73. World Closed-loop Piezo Controller Average Price by Number of Channels (2021-2032) & (US\$/Unit)

Figure 74. Closed-loop Piezo Controller Industry Chain

Figure 75. Closed-loop Piezo Controller Procurement Model

Figure 76. Closed-loop Piezo Controller Sales Model

Figure 77. Closed-loop Piezo Controller Sales Channels, Direct Sales, and Distribution

Figure 78. Methodology

Figure 79. Research Process and Data Source

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