

Global Linear Piezoelectric Motor Market Growth 2026-2032

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Abstracts

The global Linear Piezoelectric Motor market size is predicted to grow from US\$ 39.19 million in 2025 to US\$ 70.40 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

In 2025, global Linear Piezoelectric Motors production reached approximately 27.82 K Units, with an average global market price of around 1440 USD per Unit.

A linear piezoelectric motor is a precision actuation device that uses the inverse piezoelectric effect to convert electrical energy directly into linear motion. When an alternating voltage is applied to piezoelectric materials such as piezoelectric ceramics, they generate microscopic deformation, vibration, or traveling waves. These mechanical motions are then transferred to a slider, rail, or load through frictional contact, clamping and stepping, inertial impact, or inchworm-type motion mechanisms to achieve precise linear displacement. Compared with conventional electromagnetic linear motors, linear piezoelectric motors are typically compact, fast-response, highly precise, self-locking when power is off, free from electromagnetic interference, and stable at very low speeds. They are widely used in applications requiring compact size and high-precision positioning, such as semiconductor equipment, optical focusing systems, microscope stages, medical devices, precision instruments, aerospace systems, micro-robotics, autofocus modules, and micro/nano positioning platforms.

Linear Piezoelectric Motors' upstream raw materials mainly include piezoelectric ceramics and elastomers, with typical suppliers including MURATA, TDK, Kyocera, KEPO Electronics, and CeramTec GmbH. Downstream applications are primarily in camera lenses, optical instruments, medical, robotics, and aerospace fields, with typical customers including Canon, Nikon, Siemens, and Zeiss.

Linear Piezoelectric Motors' single-line production capacity varies significantly depending on product suitability and the level of automation. Gross profit margins, influenced by product positioning and its position in the industry chain, exhibit a stable high profit margin, generally ranging from 20% to 40%.

The core value of Linear Piezoelectric Motors lies in their ability to generate highly precise linear motion directly from the microscopic deformation of piezoelectric materials. Within a compact structure, they can deliver fast response, nano- or micron-level positioning, smooth low-speed motion and self-locking capability when power is off. Compared with conventional electromagnetic motors, screw-driven mechanisms or pneumatic actuators, linear piezoelectric motors require fewer transmission components and offer advantages such as compact size, light weight, low heat generation, no electromagnetic interference and excellent stability in micro-displacement applications. These features effectively address key pain points in precision equipment, including limited installation space, insufficient positioning accuracy, accumulated mechanical backlash, unstable low-speed motion and sensitivity to electromagnetic disturbance. In fields such as semiconductor equipment, optical focusing, microscopy, medical devices, precision inspection and micro/nano manipulation, motion control requirements are shifting from simply 'moving' to moving with higher accuracy, speed, stability and controllability, making linear piezoelectric motors increasingly valuable.

Market growth is being driven by the continued shift toward precision, miniaturization and automation in high-end manufacturing. As semiconductor process equipment, advanced packaging, life science instruments, industrial inspection systems, aerospace equipment, precision optics and micro-robotics continue to evolve, more systems require compact linear actuation with high precision, fast response, low noise and strong reliability. Looking ahead, linear piezoelectric motors are expected to move beyond high-end laboratories and specialized instruments into broader industrial applications, particularly in wafer inspection platforms, optical image stabilization and autofocus systems, microfluidics, surgical robots, precision valve control and miniature actuators. With ongoing improvements in piezoelectric ceramic materials, drive control algorithms and modular motion platform design, the industry is likely to evolve from a niche precision component market into a key enabling technology for next-generation high-end equipment.

LP Information, Inc. (LPI) ' newest research report, the 'Linear Piezoelectric Motor Industry Forecast' looks at past sales and reviews total world Linear Piezoelectric Motor sales in 2025, providing a comprehensive analysis by region and market sector of

projected Linear Piezoelectric Motor sales for 2026 through 2032. With Linear Piezoelectric Motor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Linear Piezoelectric Motor industry.

This Insight Report provides a comprehensive analysis of the global Linear Piezoelectric Motor 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 Linear Piezoelectric Motor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Linear Piezoelectric Motor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Linear Piezoelectric Motor and breaks down the forecast by Type, 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 Linear Piezoelectric Motor.

This report presents a comprehensive overview, market shares, and growth opportunities of Linear Piezoelectric Motor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-axis Type

Dual-axis Type

Multi-axis Type

Segmentation by Technical Principle:

Standing Wave Type

Traveling Wave Type

Segmentation by Contact:

Contact Type

Non-contact Type

Segmentation by Application:

Semiconductor Equipment

Medical equipment

Robots

Optical instruments

Aerospace and Military

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

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.

Canon

Nanomotion

Shinsei Corporation

Tamron Co., Ltd.

PiezoMotor (Acuvi)

FUKOKU

PI (Physik Instrumente)

Dynamic Structures & Materials

Tekceleo

Harbin Core tomorrow science and technology

Piezoelectric Technology Co., Ltd

Nanjing Hangda Supercontrol Technology

Nikko

Xeryon

Piezo Sonic Co., Ltd.

Shenzhen Sanjie

Key Questions Addressed in this Report

What is the 10-year outlook for the global Linear Piezoelectric Motor market?

What factors are driving Linear Piezoelectric Motor market growth, globally and by region?

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

How do Linear Piezoelectric Motor market opportunities vary by end market size?

How does Linear Piezoelectric Motor break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Linear Piezoelectric Motor Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Linear Piezoelectric Motor by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Linear Piezoelectric Motor by Country/Region, 2021, 2025 & 2032
- 2.2 Linear Piezoelectric Motor Segment by Type
 - 2.2.1 Single-axis Type
 - 2.2.2 Dual-axis Type
 - 2.2.3 Multi-axis Type
 - 2.2.4 Linear Piezoelectric Motor Sales by Type
 - 2.2.4.1 Global Linear Piezoelectric Motor Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Linear Piezoelectric Motor Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Linear Piezoelectric Motor Sale Price by Type (2021-2026)
- 2.3 Linear Piezoelectric Motor Segment by Technical Principle
 - 2.3.1 Standing Wave Type
 - 2.3.2 Traveling Wave Type
 - 2.3.3 Linear Piezoelectric Motor Sales by Technical Principle
 - 2.3.3.1 Global Linear Piezoelectric Motor Sales Market Share by Technical Principle (2021-2026)
 - 2.3.3.2 Global Linear Piezoelectric Motor Revenue and Market Share by Technical Principle (2021-2026)
 - 2.3.3.3 Global Linear Piezoelectric Motor Sale Price by Technical Principle

(2021-2026)

2.4 Linear Piezoelectric Motor Segment by Contact

2.4.1 Contact Type

2.4.2 Non-contact Type

2.4.3 Linear Piezoelectric Motor Sales by Contact

2.4.3.1 Global Linear Piezoelectric Motor Sales Market Share by Contact

(2021-2026)

2.4.3.2 Global Linear Piezoelectric Motor Revenue and Market Share by Contact

(2021-2026)

2.4.3.3 Global Linear Piezoelectric Motor Sale Price by Contact (2021-2026)

2.5 Linear Piezoelectric Motor Segment by Application

2.5.1 Semiconductor Equipment

2.5.2 Medical equipment

2.5.3 Robots

2.5.4 Optical instruments

2.5.5 Aerospace and Military

2.5.6 Others

2.5.7 Linear Piezoelectric Motor Sales by Application

2.5.7.1 Global Linear Piezoelectric Motor Sale Market Share by Application

(2021-2026)

2.5.7.2 Global Linear Piezoelectric Motor Revenue and Market Share by Application

(2021-2026)

2.5.7.3 Global Linear Piezoelectric Motor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Linear Piezoelectric Motor Breakdown Data by Company

3.1.1 Global Linear Piezoelectric Motor Annual Sales by Company (2021-2026)

3.1.2 Global Linear Piezoelectric Motor Sales Market Share by Company (2021-2026)

3.2 Global Linear Piezoelectric Motor Annual Revenue by Company (2021-2026)

3.2.1 Global Linear Piezoelectric Motor Revenue by Company (2021-2026)

3.2.2 Global Linear Piezoelectric Motor Revenue Market Share by Company

(2021-2026)

3.3 Global Linear Piezoelectric Motor Sale Price by Company

3.4 Key Manufacturers Linear Piezoelectric Motor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Linear Piezoelectric Motor Product Location Distribution

3.4.2 Players Linear Piezoelectric Motor Products Offered

3.5 Market Concentration Rate Analysis

- 3.5.1 Competition Landscape Analysis
- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LINEAR PIEZOELECTRIC MOTOR BY GEOGRAPHIC REGION

- 4.1 World Historic Linear Piezoelectric Motor Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Linear Piezoelectric Motor Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Linear Piezoelectric Motor Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Linear Piezoelectric Motor Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Linear Piezoelectric Motor Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Linear Piezoelectric Motor Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Linear Piezoelectric Motor Sales Growth
- 4.4 APAC Linear Piezoelectric Motor Sales Growth
- 4.5 Europe Linear Piezoelectric Motor Sales Growth
- 4.6 Middle East & Africa Linear Piezoelectric Motor Sales Growth

5 AMERICAS

- 5.1 Americas Linear Piezoelectric Motor Sales by Country
 - 5.1.1 Americas Linear Piezoelectric Motor Sales by Country (2021-2026)
 - 5.1.2 Americas Linear Piezoelectric Motor Revenue by Country (2021-2026)
- 5.2 Americas Linear Piezoelectric Motor Sales by Type (2021-2026)
- 5.3 Americas Linear Piezoelectric Motor Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Linear Piezoelectric Motor Sales by Region

- 6.1.1 APAC Linear Piezoelectric Motor Sales by Region (2021-2026)
- 6.1.2 APAC Linear Piezoelectric Motor Revenue by Region (2021-2026)
- 6.2 APAC Linear Piezoelectric Motor Sales by Type (2021-2026)
- 6.3 APAC Linear Piezoelectric Motor Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Linear Piezoelectric Motor by Country
 - 7.1.1 Europe Linear Piezoelectric Motor Sales by Country (2021-2026)
 - 7.1.2 Europe Linear Piezoelectric Motor Revenue by Country (2021-2026)
- 7.2 Europe Linear Piezoelectric Motor Sales by Type (2021-2026)
- 7.3 Europe Linear Piezoelectric Motor Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Linear Piezoelectric Motor by Country
 - 8.1.1 Middle East & Africa Linear Piezoelectric Motor Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Linear Piezoelectric Motor Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Linear Piezoelectric Motor Sales by Type (2021-2026)
- 8.3 Middle East & Africa Linear Piezoelectric Motor Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Linear Piezoelectric Motor
- 10.3 Manufacturing Process Analysis of Linear Piezoelectric Motor
- 10.4 Industry Chain Structure of Linear Piezoelectric Motor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Linear Piezoelectric Motor Distributors
- 11.3 Linear Piezoelectric Motor Customer

12 WORLD FORECAST REVIEW FOR LINEAR PIEZOELECTRIC MOTOR BY GEOGRAPHIC REGION

- 12.1 Global Linear Piezoelectric Motor Market Size Forecast by Region
 - 12.1.1 Global Linear Piezoelectric Motor Forecast by Region (2027-2032)
 - 12.1.2 Global Linear Piezoelectric Motor Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Linear Piezoelectric Motor Forecast by Type (2027-2032)
- 12.7 Global Linear Piezoelectric Motor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Canon
 - 13.1.1 Canon Company Information

- 13.1.2 Canon Linear Piezoelectric Motor Product Portfolios and Specifications
- 13.1.3 Canon Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Canon Main Business Overview
- 13.1.5 Canon Latest Developments
- 13.2 Nanomotion
 - 13.2.1 Nanomotion Company Information
 - 13.2.2 Nanomotion Linear Piezoelectric Motor Product Portfolios and Specifications
 - 13.2.3 Nanomotion Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Nanomotion Main Business Overview
 - 13.2.5 Nanomotion Latest Developments
- 13.3 Shinsei Corporation
 - 13.3.1 Shinsei Corporation Company Information
 - 13.3.2 Shinsei Corporation Linear Piezoelectric Motor Product Portfolios and Specifications
 - 13.3.3 Shinsei Corporation Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Shinsei Corporation Main Business Overview
 - 13.3.5 Shinsei Corporation Latest Developments
- 13.4 Tamron Co., Ltd.
 - 13.4.1 Tamron Co., Ltd. Company Information
 - 13.4.2 Tamron Co., Ltd. Linear Piezoelectric Motor Product Portfolios and Specifications
 - 13.4.3 Tamron Co., Ltd. Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Tamron Co., Ltd. Main Business Overview
 - 13.4.5 Tamron Co., Ltd. Latest Developments
- 13.5 PiezoMotor (Acuvi)
 - 13.5.1 PiezoMotor (Acuvi) Company Information
 - 13.5.2 PiezoMotor (Acuvi) Linear Piezoelectric Motor Product Portfolios and Specifications
 - 13.5.3 PiezoMotor (Acuvi) Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 PiezoMotor (Acuvi) Main Business Overview
 - 13.5.5 PiezoMotor (Acuvi) Latest Developments
- 13.6 FUKOKU
 - 13.6.1 FUKOKU Company Information
 - 13.6.2 FUKOKU Linear Piezoelectric Motor Product Portfolios and Specifications

13.6.3 FUKOKU Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 FUKOKU Main Business Overview

13.6.5 FUKOKU Latest Developments

13.7 PI (Physik Instrumente)

13.7.1 PI (Physik Instrumente) Company Information

13.7.2 PI (Physik Instrumente) Linear Piezoelectric Motor Product Portfolios and Specifications

13.7.3 PI (Physik Instrumente) Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 PI (Physik Instrumente) Main Business Overview

13.7.5 PI (Physik Instrumente) Latest Developments

13.8 Dynamic Structures & Materials

13.8.1 Dynamic Structures & Materials Company Information

13.8.2 Dynamic Structures & Materials Linear Piezoelectric Motor Product Portfolios and Specifications

13.8.3 Dynamic Structures & Materials Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Dynamic Structures & Materials Main Business Overview

13.8.5 Dynamic Structures & Materials Latest Developments

13.9 Tekceleo

13.9.1 Tekceleo Company Information

13.9.2 Tekceleo Linear Piezoelectric Motor Product Portfolios and Specifications

13.9.3 Tekceleo Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Tekceleo Main Business Overview

13.9.5 Tekceleo Latest Developments

13.10 Harbin Core tomorrow science and technology

13.10.1 Harbin Core tomorrow science and technology Company Information

13.10.2 Harbin Core tomorrow science and technology Linear Piezoelectric Motor Product Portfolios and Specifications

13.10.3 Harbin Core tomorrow science and technology Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Harbin Core tomorrow science and technology Main Business Overview

13.10.5 Harbin Core tomorrow science and technology Latest Developments

13.11 Piezoelectric Technology Co., Ltd

13.11.1 Piezoelectric Technology Co., Ltd Company Information

13.11.2 Piezoelectric Technology Co., Ltd Linear Piezoelectric Motor Product Portfolios and Specifications

13.11.3 Piezoelectric Technology Co., Ltd Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Piezoelectric Technology Co., Ltd Main Business Overview

13.11.5 Piezoelectric Technology Co., Ltd Latest Developments

13.12 Nanjing Hangda Supercontrol Technology

13.12.1 Nanjing Hangda Supercontrol Technology Company Information

13.12.2 Nanjing Hangda Supercontrol Technology Linear Piezoelectric Motor Product Portfolios and Specifications

13.12.3 Nanjing Hangda Supercontrol Technology Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Nanjing Hangda Supercontrol Technology Main Business Overview

13.12.5 Nanjing Hangda Supercontrol Technology Latest Developments

13.13 Nikko

13.13.1 Nikko Company Information

13.13.2 Nikko Linear Piezoelectric Motor Product Portfolios and Specifications

13.13.3 Nikko Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Nikko Main Business Overview

13.13.5 Nikko Latest Developments

13.14 Xeryon

13.14.1 Xeryon Company Information

13.14.2 Xeryon Linear Piezoelectric Motor Product Portfolios and Specifications

13.14.3 Xeryon Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Xeryon Main Business Overview

13.14.5 Xeryon Latest Developments

13.15 Piezo Sonic Co., Ltd.

13.15.1 Piezo Sonic Co., Ltd. Company Information

13.15.2 Piezo Sonic Co., Ltd. Linear Piezoelectric Motor Product Portfolios and Specifications

13.15.3 Piezo Sonic Co., Ltd. Linear Piezoelectric Motor Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Piezo Sonic Co., Ltd. Main Business Overview

13.15.5 Piezo Sonic Co., Ltd. Latest Developments

13.16 Shenzhen Sanjie

13.16.1 Shenzhen Sanjie Company Information

13.16.2 Shenzhen Sanjie Linear Piezoelectric Motor Product Portfolios and Specifications

13.16.3 Shenzhen Sanjie Linear Piezoelectric Motor Sales, Revenue, Price and Gross

Margin (2021-2026)

13.16.4 Shenzhen Sanjie Main Business Overview

13.16.5 Shenzhen Sanjie Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Linear Piezoelectric Motor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Linear Piezoelectric Motor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Single-axis Type
- Table 4. Major Players of Dual-axis Type
- Table 5. Major Players of Multi-axis Type
- Table 6. Global Linear Piezoelectric Motor Sales by Type (2021-2026) & (K Units)
- Table 7. Global Linear Piezoelectric Motor Sales Market Share by Type (2021-2026)
- Table 8. Global Linear Piezoelectric Motor Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Linear Piezoelectric Motor Revenue Market Share by Type (2021-2026)
- Table 10. Global Linear Piezoelectric Motor Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 11. Major Players of Standing Wave Type
- Table 12. Major Players of Traveling Wave Type
- Table 13. Global Linear Piezoelectric Motor Sales by Technical Principle (2021-2026) & (K Units)
- Table 14. Global Linear Piezoelectric Motor Sales Market Share by Technical Principle (2021-2026)
- Table 15. Global Linear Piezoelectric Motor Revenue by Technical Principle (2021-2026) & (\$ million)
- Table 16. Global Linear Piezoelectric Motor Revenue Market Share by Technical Principle (2021-2026)
- Table 17. Global Linear Piezoelectric Motor Sale Price by Technical Principle (2021-2026) & (US\$/Unit)
- Table 18. Major Players of Contact Type
- Table 19. Major Players of Non-contact Type
- Table 20. Global Linear Piezoelectric Motor Sales by Contact (2021-2026) & (K Units)
- Table 21. Global Linear Piezoelectric Motor Sales Market Share by Contact (2021-2026)
- Table 22. Global Linear Piezoelectric Motor Revenue by Contact (2021-2026) & (\$ million)
- Table 23. Global Linear Piezoelectric Motor Revenue Market Share by Contact (2021-2026)
- Table 24. Global Linear Piezoelectric Motor Sale Price by Contact (2021-2026) &

(US\$/Unit)

Table 25. Global Linear Piezoelectric Motor Sale by Application (2021-2026) & (K Units)

Table 26. Global Linear Piezoelectric Motor Sale Market Share by Application (2021-2026)

Table 27. Global Linear Piezoelectric Motor Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Linear Piezoelectric Motor Revenue Market Share by Application (2021-2026)

Table 29. Global Linear Piezoelectric Motor Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global Linear Piezoelectric Motor Sales by Company (2021-2026) & (K Units)

Table 31. Global Linear Piezoelectric Motor Sales Market Share by Company (2021-2026)

Table 32. Global Linear Piezoelectric Motor Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Linear Piezoelectric Motor Revenue Market Share by Company (2021-2026)

Table 34. Global Linear Piezoelectric Motor Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers Linear Piezoelectric Motor Producing Area Distribution and Sales Area

Table 36. Players Linear Piezoelectric Motor Products Offered

Table 37. Linear Piezoelectric Motor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Linear Piezoelectric Motor Sales by Geographic Region (2021-2026) & (K Units)

Table 41. Global Linear Piezoelectric Motor Sales Market Share Geographic Region (2021-2026)

Table 42. Global Linear Piezoelectric Motor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Linear Piezoelectric Motor Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Linear Piezoelectric Motor Sales by Country/Region (2021-2026) & (K Units)

Table 45. Global Linear Piezoelectric Motor Sales Market Share by Country/Region (2021-2026)

Table 46. Global Linear Piezoelectric Motor Revenue by Country/Region (2021-2026) &

(\$ millions)

Table 47. Global Linear Piezoelectric Motor Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Linear Piezoelectric Motor Sales by Country (2021-2026) & (K Units)

Table 49. Americas Linear Piezoelectric Motor Sales Market Share by Country (2021-2026)

Table 50. Americas Linear Piezoelectric Motor Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Linear Piezoelectric Motor Sales by Type (2021-2026) & (K Units)

Table 52. Americas Linear Piezoelectric Motor Sales by Application (2021-2026) & (K Units)

Table 53. APAC Linear Piezoelectric Motor Sales by Region (2021-2026) & (K Units)

Table 54. APAC Linear Piezoelectric Motor Sales Market Share by Region (2021-2026)

Table 55. APAC Linear Piezoelectric Motor Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Linear Piezoelectric Motor Sales by Type (2021-2026) & (K Units)

Table 57. APAC Linear Piezoelectric Motor Sales by Application (2021-2026) & (K Units)

Table 58. Europe Linear Piezoelectric Motor Sales by Country (2021-2026) & (K Units)

Table 59. Europe Linear Piezoelectric Motor Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Linear Piezoelectric Motor Sales by Type (2021-2026) & (K Units)

Table 61. Europe Linear Piezoelectric Motor Sales by Application (2021-2026) & (K Units)

Table 62. Middle East & Africa Linear Piezoelectric Motor Sales by Country (2021-2026) & (K Units)

Table 63. Middle East & Africa Linear Piezoelectric Motor Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Linear Piezoelectric Motor Sales by Type (2021-2026) & (K Units)

Table 65. Middle East & Africa Linear Piezoelectric Motor Sales by Application (2021-2026) & (K Units)

Table 66. Key Market Drivers & Growth Opportunities of Linear Piezoelectric Motor

Table 67. Key Market Challenges & Risks of Linear Piezoelectric Motor

Table 68. Key Industry Trends of Linear Piezoelectric Motor

Table 69. Linear Piezoelectric Motor Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Linear Piezoelectric Motor Distributors List

Table 72. Linear Piezoelectric Motor Customer List

Table 73. Global Linear Piezoelectric Motor Sales Forecast by Region (2027-2032) & (K Units)

Table 74. Global Linear Piezoelectric Motor Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas Linear Piezoelectric Motor Sales Forecast by Country (2027-2032) & (K Units)

Table 76. Americas Linear Piezoelectric Motor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC Linear Piezoelectric Motor Sales Forecast by Region (2027-2032) & (K Units)

Table 78. APAC Linear Piezoelectric Motor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe Linear Piezoelectric Motor Sales Forecast by Country (2027-2032) & (K Units)

Table 80. Europe Linear Piezoelectric Motor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Linear Piezoelectric Motor Sales Forecast by Country (2027-2032) & (K Units)

Table 82. Middle East & Africa Linear Piezoelectric Motor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Linear Piezoelectric Motor Sales Forecast by Type (2027-2032) & (K Units)

Table 84. Global Linear Piezoelectric Motor Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global Linear Piezoelectric Motor Sales Forecast by Application (2027-2032) & (K Units)

Table 86. Global Linear Piezoelectric Motor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Canon Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 88. Canon Linear Piezoelectric Motor Product Portfolios and Specifications

Table 89. Canon Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Canon Main Business

Table 91. Canon Latest Developments

Table 92. Nanomotion Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 93. Nanomotion Linear Piezoelectric Motor Product Portfolios and Specifications

Table 94. Nanomotion Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Nanomotion Main Business

Table 96. Nanomotion Latest Developments

Table 97. Shinsei Corporation Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 98. Shinsei Corporation Linear Piezoelectric Motor Product Portfolios and Specifications

Table 99. Shinsei Corporation Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Shinsei Corporation Main Business

Table 101. Shinsei Corporation Latest Developments

Table 102. Tamron Co., Ltd. Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 103. Tamron Co., Ltd. Linear Piezoelectric Motor Product Portfolios and Specifications

Table 104. Tamron Co., Ltd. Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Tamron Co., Ltd. Main Business

Table 106. Tamron Co., Ltd. Latest Developments

Table 107. PiezoMotor (Acuvi) Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 108. PiezoMotor (Acuvi) Linear Piezoelectric Motor Product Portfolios and Specifications

Table 109. PiezoMotor (Acuvi) Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. PiezoMotor (Acuvi) Main Business

Table 111. PiezoMotor (Acuvi) Latest Developments

Table 112. FUKOKU Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 113. FUKOKU Linear Piezoelectric Motor Product Portfolios and Specifications

Table 114. FUKOKU Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. FUKOKU Main Business

Table 116. FUKOKU Latest Developments

Table 117. PI (Physik Instrumente) Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 118. PI (Physik Instrumente) Linear Piezoelectric Motor Product Portfolios and Specifications

Table 119. PI (Physik Instrumente) Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. PI (Physik Instrumente) Main Business

Table 121. PI (Physik Instrumente) Latest Developments

Table 122. Dynamic Structures & Materials Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 123. Dynamic Structures & Materials Linear Piezoelectric Motor Product Portfolios and Specifications

Table 124. Dynamic Structures & Materials Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Dynamic Structures & Materials Main Business

Table 126. Dynamic Structures & Materials Latest Developments

Table 127. Tekceleo Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 128. Tekceleo Linear Piezoelectric Motor Product Portfolios and Specifications

Table 129. Tekceleo Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Tekceleo Main Business

Table 131. Tekceleo Latest Developments

Table 132. Harbin Core tomorrow science and technology Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 133. Harbin Core tomorrow science and technology Linear Piezoelectric Motor Product Portfolios and Specifications

Table 134. Harbin Core tomorrow science and technology Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Harbin Core tomorrow science and technology Main Business

Table 136. Harbin Core tomorrow science and technology Latest Developments

Table 137. Piezoelectric Technology Co., Ltd Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 138. Piezoelectric Technology Co., Ltd Linear Piezoelectric Motor Product Portfolios and Specifications

Table 139. Piezoelectric Technology Co., Ltd Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Piezoelectric Technology Co., Ltd Main Business

Table 141. Piezoelectric Technology Co., Ltd Latest Developments

Table 142. Nanjing Hangda Supercontrol Technology Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 143. Nanjing Hangda Supercontrol Technology Linear Piezoelectric Motor Product Portfolios and Specifications

Table 144. Nanjing Hangda Supercontrol Technology Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 145. Nanjing Hangda Supercontrol Technology Main Business

Table 146. Nanjing Hangda Supercontrol Technology Latest Developments

Table 147. Nikko Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 148. Nikko Linear Piezoelectric Motor Product Portfolios and Specifications

Table 149. Nikko Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 150. Nikko Main Business

Table 151. Nikko Latest Developments

Table 152. Xeryon Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 153. Xeryon Linear Piezoelectric Motor Product Portfolios and Specifications

Table 154. Xeryon Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 155. Xeryon Main Business

Table 156. Xeryon Latest Developments

Table 157. Piezo Sonic Co., Ltd. Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 158. Piezo Sonic Co., Ltd. Linear Piezoelectric Motor Product Portfolios and Specifications

Table 159. Piezo Sonic Co., Ltd. Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 160. Piezo Sonic Co., Ltd. Main Business

Table 161. Piezo Sonic Co., Ltd. Latest Developments

Table 162. Shenzhen Sanjie Basic Information, Linear Piezoelectric Motor Manufacturing Base, Sales Area and Its Competitors

Table 163. Shenzhen Sanjie Linear Piezoelectric Motor Product Portfolios and Specifications

Table 164. Shenzhen Sanjie Linear Piezoelectric Motor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 165. Shenzhen Sanjie Main Business

Table 166. Shenzhen Sanjie Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Linear Piezoelectric Motor

Figure 2. Linear Piezoelectric Motor Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Linear Piezoelectric Motor Sales Growth Rate 2021-2032 (K Units)

Figure 7. Global Linear Piezoelectric Motor Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Linear Piezoelectric Motor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Linear Piezoelectric Motor Sales Market Share by Country/Region (2025)

Figure 10. Linear Piezoelectric Motor Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Single-axis Type

Figure 12. Product Picture of Dual-axis Type

Figure 13. Product Picture of Multi-axis Type

Figure 14. Global Linear Piezoelectric Motor Sales Market Share by Type in 2026

Figure 15. Global Linear Piezoelectric Motor Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of Standing Wave Type

Figure 17. Product Picture of Traveling Wave Type

Figure 18. Global Linear Piezoelectric Motor Sales Market Share by Technical Principle in 2026

Figure 19. Global Linear Piezoelectric Motor Revenue Market Share by Technical Principle (2021-2026)

Figure 20. Product Picture of Contact Type

Figure 21. Product Picture of Non-contact Type

Figure 22. Global Linear Piezoelectric Motor Sales Market Share by Contact in 2026

Figure 23. Global Linear Piezoelectric Motor Revenue Market Share by Contact (2021-2026)

Figure 24. Linear Piezoelectric Motor Consumed in Semiconductor Equipment

Figure 25. Global Linear Piezoelectric Motor Market: Semiconductor Equipment (2021-2026) & (K Units)

Figure 26. Linear Piezoelectric Motor Consumed in Medical equipment

Figure 27. Global Linear Piezoelectric Motor Market: Medical equipment (2021-2026) &

(K Units)

Figure 28. Linear Piezoelectric Motor Consumed in Robots

Figure 29. Global Linear Piezoelectric Motor Market: Robots (2021-2026) & (K Units)

Figure 30. Linear Piezoelectric Motor Consumed in Optical instruments

Figure 31. Global Linear Piezoelectric Motor Market: Optical instruments (2021-2026) & (K Units)

Figure 32. Linear Piezoelectric Motor Consumed in Aerospace and Military

Figure 33. Global Linear Piezoelectric Motor Market: Aerospace and Military (2021-2026) & (K Units)

Figure 34. Linear Piezoelectric Motor Consumed in Others

Figure 35. Global Linear Piezoelectric Motor Market: Others (2021-2026) & (K Units)

Figure 36. Global Linear Piezoelectric Motor Sale Market Share by Application (2025)

Figure 37. Global Linear Piezoelectric Motor Revenue Market Share by Application in 2025

Figure 38. Linear Piezoelectric Motor Sales by Company in 2025 (K Units)

Figure 39. Global Linear Piezoelectric Motor Sales Market Share by Company in 2025

Figure 40. Linear Piezoelectric Motor Revenue by Company in 2025 (\$ millions)

Figure 41. Global Linear Piezoelectric Motor Revenue Market Share by Company in 2025

Figure 42. Global Linear Piezoelectric Motor Sales Market Share by Geographic Region (2021-2026)

Figure 43. Global Linear Piezoelectric Motor Revenue Market Share by Geographic Region in 2025

Figure 44. Americas Linear Piezoelectric Motor Sales 2021-2026 (K Units)

Figure 45. Americas Linear Piezoelectric Motor Revenue 2021-2026 (\$ millions)

Figure 46. APAC Linear Piezoelectric Motor Sales 2021-2026 (K Units)

Figure 47. APAC Linear Piezoelectric Motor Revenue 2021-2026 (\$ millions)

Figure 48. Europe Linear Piezoelectric Motor Sales 2021-2026 (K Units)

Figure 49. Europe Linear Piezoelectric Motor Revenue 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Linear Piezoelectric Motor Sales 2021-2026 (K Units)

Figure 51. Middle East & Africa Linear Piezoelectric Motor Revenue 2021-2026 (\$ millions)

Figure 52. Americas Linear Piezoelectric Motor Sales Market Share by Country in 2025

Figure 53. Americas Linear Piezoelectric Motor Revenue Market Share by Country (2021-2026)

Figure 54. Americas Linear Piezoelectric Motor Sales Market Share by Type (2021-2026)

Figure 55. Americas Linear Piezoelectric Motor Sales Market Share by Application (2021-2026)

Figure 56. United States Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC Linear Piezoelectric Motor Sales Market Share by Region in 2025

Figure 61. APAC Linear Piezoelectric Motor Revenue Market Share by Region (2021-2026)

Figure 62. APAC Linear Piezoelectric Motor Sales Market Share by Type (2021-2026)

Figure 63. APAC Linear Piezoelectric Motor Sales Market Share by Application (2021-2026)

Figure 64. China Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 69. Australia Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Linear Piezoelectric Motor Sales Market Share by Country in 2025

Figure 72. Europe Linear Piezoelectric Motor Revenue Market Share by Country (2021-2026)

Figure 73. Europe Linear Piezoelectric Motor Sales Market Share by Type (2021-2026)

Figure 74. Europe Linear Piezoelectric Motor Sales Market Share by Application (2021-2026)

Figure 75. Germany Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Linear Piezoelectric Motor Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Linear Piezoelectric Motor Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa Linear Piezoelectric Motor Sales Market Share by Application (2021-2026)

Figure 83. Egypt Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Linear Piezoelectric Motor Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Linear Piezoelectric Motor in 2026

Figure 89. Manufacturing Process Analysis of Linear Piezoelectric Motor

Figure 90. Industry Chain Structure of Linear Piezoelectric Motor

Figure 91. Channels of Distribution

Figure 92. Global Linear Piezoelectric Motor Sales Market Forecast by Region (2027-2032)

Figure 93. Global Linear Piezoelectric Motor Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global Linear Piezoelectric Motor Sales Market Share Forecast by Type (2027-2032)

Figure 95. Global Linear Piezoelectric Motor Revenue Market Share Forecast by Type (2027-2032)

Figure 96. Global Linear Piezoelectric Motor Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global Linear Piezoelectric Motor Revenue Market Share Forecast by Application (2027-2032)

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