

Global High Voltage Piezoelectric Stack Actuator 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 High Voltage Piezoelectric Stack Actuator market size was valued at US\$ 758 million in 2025 and is forecast to a readjusted size of US\$ 1173 million by 2032 with a CAGR of 6.5% during review period.

High voltage piezoelectric stack actuators are constructed with discrete sintered, poled ceramic disks, rings or plates with thin metal leaf electrodes interlaced between the ceramics. The device is bonded together with a high quality adhesive. These stack actuators are often enclosed in metal casing with an appropriate pre stress applied. Other options for these actuators can be casings specially designed to manage the heat generated during operation, or include the possibility of position sensing for the piezoelectric stack actuator.

Discrete stacking offers the widest range of ceramic materials, flexibility in the shape of the ceramic elements, and better control of heat generated during high frequency operation, but voltages of 500 V ? 1000 V usually are needed to operate these actuators.

This report is a detailed and comprehensive analysis for global High Voltage Piezoelectric Stack Actuator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. 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 High Voltage Piezoelectric Stack Actuator market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Voltage Piezoelectric Stack Actuator 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 High Voltage Piezoelectric Stack Actuator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Voltage Piezoelectric Stack Actuator 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 High Voltage Piezoelectric Stack Actuator

- 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 High Voltage Piezoelectric Stack Actuator 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 TDK, Murata Manufacturing, KEMET, CTS, Taiyo Yuden, Physik Instrumente (PI) Group, Piezosystem Jena, APC International, DSM, Cedrat Technologies, etc.

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

Market Segmentation

High Voltage Piezoelectric Stack Actuator market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Preloaded

Non-preloaded

Market segment by Application

Industry and Manufacturing

Automotive

Consumer Electronics

Optical Instruments

Medical

Military

Others

Major players covered

TDK

Murata Manufacturing

KEMET

CTS

Taiyo Yuden

Physik Instrumente (PI) Group

Piezosystem Jena

APC International

DSM

Cedrat Technologies

Bangci Technology

Suzhou Pant Piezoelectric Tech

CoreMorrow

Liaoning Yansheng Technology

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 High Voltage Piezoelectric Stack Actuator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Voltage Piezoelectric Stack Actuator, with price, sales quantity, revenue, and global market share of High Voltage Piezoelectric Stack Actuator from 2021 to 2026.

Chapter 3, the High Voltage Piezoelectric Stack Actuator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Voltage Piezoelectric Stack Actuator 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 Application, with sales market share and growth rate by Type, by Application, 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 High Voltage Piezoelectric Stack Actuator market forecast, by regions, by Type, and by Application, 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 High Voltage Piezoelectric Stack Actuator.

Chapter 14 and 15, to describe High Voltage Piezoelectric Stack Actuator sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High Voltage Piezoelectric Stack Actuator Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Preloaded

1.3.3 Non-preloaded

1.4 Market Analysis by Application

1.4.1 Overview: Global High Voltage Piezoelectric Stack Actuator Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.4.2 Industry and Manufacturing

1.4.3 Automotive

1.4.4 Consumer Electronics

1.4.5 Optical Instruments

1.4.6 Medical

1.4.7 Military

1.4.8 Others

1.5 Global High Voltage Piezoelectric Stack Actuator Market Size & Forecast

1.5.1 Global High Voltage Piezoelectric Stack Actuator Consumption Value (2021 & 2025 & 2032)

1.5.2 Global High Voltage Piezoelectric Stack Actuator Sales Quantity (2021-2032)

1.5.3 Global High Voltage Piezoelectric Stack Actuator Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 TDK

2.1.1 TDK Details

2.1.2 TDK Major Business

2.1.3 TDK High Voltage Piezoelectric Stack Actuator Product and Services

2.1.4 TDK High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 TDK Recent Developments/Updates

2.2 Murata Manufacturing

2.2.1 Murata Manufacturing Details

2.2.2 Murata Manufacturing Major Business

2.2.3 Murata Manufacturing High Voltage Piezoelectric Stack Actuator Product and Services

2.2.4 Murata Manufacturing High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Murata Manufacturing Recent Developments/Updates

2.3 KEMET

2.3.1 KEMET Details

2.3.2 KEMET Major Business

2.3.3 KEMET High Voltage Piezoelectric Stack Actuator Product and Services

2.3.4 KEMET High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 KEMET Recent Developments/Updates

2.4 CTS

2.4.1 CTS Details

2.4.2 CTS Major Business

2.4.3 CTS High Voltage Piezoelectric Stack Actuator Product and Services

2.4.4 CTS High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 CTS Recent Developments/Updates

2.5 Taiyo Yuden

2.5.1 Taiyo Yuden Details

2.5.2 Taiyo Yuden Major Business

2.5.3 Taiyo Yuden High Voltage Piezoelectric Stack Actuator Product and Services

2.5.4 Taiyo Yuden High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Taiyo Yuden Recent Developments/Updates

2.6 Physik Instrumente (PI) Group

2.6.1 Physik Instrumente (PI) Group Details

2.6.2 Physik Instrumente (PI) Group Major Business

2.6.3 Physik Instrumente (PI) Group High Voltage Piezoelectric Stack Actuator Product and Services

2.6.4 Physik Instrumente (PI) Group High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Physik Instrumente (PI) Group Recent Developments/Updates

2.7 Piezosystem Jena

2.7.1 Piezosystem Jena Details

2.7.2 Piezosystem Jena Major Business

2.7.3 Piezosystem Jena High Voltage Piezoelectric Stack Actuator Product and Services

2.7.4 Piezosystem Jena High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Piezosystem Jena Recent Developments/Updates

2.8 APC International

2.8.1 APC International Details

2.8.2 APC International Major Business

2.8.3 APC International High Voltage Piezoelectric Stack Actuator Product and Services

2.8.4 APC International High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 APC International Recent Developments/Updates

2.9 DSM

2.9.1 DSM Details

2.9.2 DSM Major Business

2.9.3 DSM High Voltage Piezoelectric Stack Actuator Product and Services

2.9.4 DSM High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 DSM Recent Developments/Updates

2.10 Cedrat Technologies

2.10.1 Cedrat Technologies Details

2.10.2 Cedrat Technologies Major Business

2.10.3 Cedrat Technologies High Voltage Piezoelectric Stack Actuator Product and Services

2.10.4 Cedrat Technologies High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Cedrat Technologies Recent Developments/Updates

2.11 Bangci Technology

2.11.1 Bangci Technology Details

2.11.2 Bangci Technology Major Business

2.11.3 Bangci Technology High Voltage Piezoelectric Stack Actuator Product and Services

2.11.4 Bangci Technology High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Bangci Technology Recent Developments/Updates

2.12 Suzhou Pant Piezoelectric Tech

2.12.1 Suzhou Pant Piezoelectric Tech Details

2.12.2 Suzhou Pant Piezoelectric Tech Major Business

2.12.3 Suzhou Pant Piezoelectric Tech High Voltage Piezoelectric Stack Actuator Product and Services

- 2.12.4 Suzhou Pant Piezoelectric Tech High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Suzhou Pant Piezoelectric Tech Recent Developments/Updates
- 2.13 CoreMorrow
 - 2.13.1 CoreMorrow Details
 - 2.13.2 CoreMorrow Major Business
 - 2.13.3 CoreMorrow High Voltage Piezoelectric Stack Actuator Product and Services
 - 2.13.4 CoreMorrow High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 CoreMorrow Recent Developments/Updates
- 2.14 Liaoning Yansheng Technology
 - 2.14.1 Liaoning Yansheng Technology Details
 - 2.14.2 Liaoning Yansheng Technology Major Business
 - 2.14.3 Liaoning Yansheng Technology High Voltage Piezoelectric Stack Actuator Product and Services
 - 2.14.4 Liaoning Yansheng Technology High Voltage Piezoelectric Stack Actuator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Liaoning Yansheng Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HIGH VOLTAGE PIEZOELECTRIC STACK ACTUATOR BY MANUFACTURER

- 3.1 Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global High Voltage Piezoelectric Stack Actuator Revenue by Manufacturer (2021-2026)
- 3.3 Global High Voltage Piezoelectric Stack Actuator Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of High Voltage Piezoelectric Stack Actuator by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 High Voltage Piezoelectric Stack Actuator Manufacturer Market Share in 2025
 - 3.4.3 Top 6 High Voltage Piezoelectric Stack Actuator Manufacturer Market Share in 2025
- 3.5 High Voltage Piezoelectric Stack Actuator Market: Overall Company Footprint Analysis
 - 3.5.1 High Voltage Piezoelectric Stack Actuator Market: Region Footprint
 - 3.5.2 High Voltage Piezoelectric Stack Actuator Market: Company Product Type

Footprint

3.5.3 High Voltage Piezoelectric Stack Actuator Market: Company Product Application

Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global High Voltage Piezoelectric Stack Actuator Market Size by Region

4.1.1 Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Region
(2021-2032)

4.1.2 Global High Voltage Piezoelectric Stack Actuator Consumption Value by Region
(2021-2032)

4.1.3 Global High Voltage Piezoelectric Stack Actuator Average Price by Region
(2021-2032)

4.2 North America High Voltage Piezoelectric Stack Actuator Consumption Value
(2021-2032)

4.3 Europe High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032)

4.4 Asia-Pacific High Voltage Piezoelectric Stack Actuator Consumption Value
(2021-2032)

4.5 South America High Voltage Piezoelectric Stack Actuator Consumption Value
(2021-2032)

4.6 Middle East & Africa High Voltage Piezoelectric Stack Actuator Consumption Value
(2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Type
(2021-2032)

5.2 Global High Voltage Piezoelectric Stack Actuator Consumption Value by Type
(2021-2032)

5.3 Global High Voltage Piezoelectric Stack Actuator Average Price by Type
(2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Application
(2021-2032)

6.2 Global High Voltage Piezoelectric Stack Actuator Consumption Value by Application

(2021-2032)

6.3 Global High Voltage Piezoelectric Stack Actuator Average Price by Application
(2021-2032)

7 NORTH AMERICA

7.1 North America High Voltage Piezoelectric Stack Actuator Sales Quantity by Type
(2021-2032)

7.2 North America High Voltage Piezoelectric Stack Actuator Sales Quantity by
Application (2021-2032)

7.3 North America High Voltage Piezoelectric Stack Actuator Market Size by Country
7.3.1 North America High Voltage Piezoelectric Stack Actuator Sales Quantity by
Country (2021-2032)

7.3.2 North America High Voltage Piezoelectric Stack Actuator Consumption Value by
Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Type
(2021-2032)

8.2 Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Application
(2021-2032)

8.3 Europe High Voltage Piezoelectric Stack Actuator Market Size by Country

8.3.1 Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Country
(2021-2032)

8.3.2 Europe High Voltage Piezoelectric Stack Actuator Consumption Value by
Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Type

(2021-2032)

9.2 Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific High Voltage Piezoelectric Stack Actuator Market Size by Region

9.3.1 Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific High Voltage Piezoelectric Stack Actuator Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2021-2032)

10.2 South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2032)

10.3 South America High Voltage Piezoelectric Stack Actuator Market Size by Country

10.3.1 South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2021-2032)

10.3.2 South America High Voltage Piezoelectric Stack Actuator Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa High Voltage Piezoelectric Stack Actuator Market Size by Country

11.3.1 Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa High Voltage Piezoelectric Stack Actuator Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 High Voltage Piezoelectric Stack Actuator Market Drivers

12.2 High Voltage Piezoelectric Stack Actuator Market Restraints

12.3 High Voltage Piezoelectric Stack Actuator Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of High Voltage Piezoelectric Stack Actuator and Key Manufacturers

13.2 Manufacturing Costs Percentage of High Voltage Piezoelectric Stack Actuator

13.3 High Voltage Piezoelectric Stack Actuator Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 High Voltage Piezoelectric Stack Actuator Typical Distributors

14.3 High Voltage Piezoelectric Stack Actuator Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. TDK Basic Information, Manufacturing Base and Competitors

Table 4. TDK Major Business

Table 5. TDK High Voltage Piezoelectric Stack Actuator Product and Services

Table 6. TDK High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. TDK Recent Developments/Updates

Table 8. Murata Manufacturing Basic Information, Manufacturing Base and Competitors

Table 9. Murata Manufacturing Major Business

Table 10. Murata Manufacturing High Voltage Piezoelectric Stack Actuator Product and Services

Table 11. Murata Manufacturing High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Murata Manufacturing Recent Developments/Updates

Table 13. KEMET Basic Information, Manufacturing Base and Competitors

Table 14. KEMET Major Business

Table 15. KEMET High Voltage Piezoelectric Stack Actuator Product and Services

Table 16. KEMET High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. KEMET Recent Developments/Updates

Table 18. CTS Basic Information, Manufacturing Base and Competitors

Table 19. CTS Major Business

Table 20. CTS High Voltage Piezoelectric Stack Actuator Product and Services

Table 21. CTS High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. CTS Recent Developments/Updates

Table 23. Taiyo Yuden Basic Information, Manufacturing Base and Competitors

Table 24. Taiyo Yuden Major Business

Table 25. Taiyo Yuden High Voltage Piezoelectric Stack Actuator Product and Services

Table 26. Taiyo Yuden High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Taiyo Yuden Recent Developments/Updates

Table 28. Physik Instrumente (PI) Group Basic Information, Manufacturing Base and Competitors

Table 29. Physik Instrumente (PI) Group Major Business

Table 30. Physik Instrumente (PI) Group High Voltage Piezoelectric Stack Actuator Product and Services

Table 31. Physik Instrumente (PI) Group High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Physik Instrumente (PI) Group Recent Developments/Updates

Table 33. Piezosystem Jena Basic Information, Manufacturing Base and Competitors

Table 34. Piezosystem Jena Major Business

Table 35. Piezosystem Jena High Voltage Piezoelectric Stack Actuator Product and Services

Table 36. Piezosystem Jena High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Piezosystem Jena Recent Developments/Updates

Table 38. APC International Basic Information, Manufacturing Base and Competitors

Table 39. APC International Major Business

Table 40. APC International High Voltage Piezoelectric Stack Actuator Product and Services

Table 41. APC International High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. APC International Recent Developments/Updates

Table 43. DSM Basic Information, Manufacturing Base and Competitors

Table 44. DSM Major Business

Table 45. DSM High Voltage Piezoelectric Stack Actuator Product and Services

Table 46. DSM High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. DSM Recent Developments/Updates

Table 48. Cedrat Technologies Basic Information, Manufacturing Base and Competitors

Table 49. Cedrat Technologies Major Business

Table 50. Cedrat Technologies High Voltage Piezoelectric Stack Actuator Product and Services

Table 51. Cedrat Technologies High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. Cedrat Technologies Recent Developments/Updates

Table 53. Bangci Technology Basic Information, Manufacturing Base and Competitors

Table 54. Bangci Technology Major Business

Table 55. Bangci Technology High Voltage Piezoelectric Stack Actuator Product and Services

Table 56. Bangci Technology High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. Bangci Technology Recent Developments/Updates

Table 58. Suzhou Pant Piezoelectric Tech Basic Information, Manufacturing Base and Competitors

Table 59. Suzhou Pant Piezoelectric Tech Major Business

Table 60. Suzhou Pant Piezoelectric Tech High Voltage Piezoelectric Stack Actuator Product and Services

Table 61. Suzhou Pant Piezoelectric Tech High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 62. Suzhou Pant Piezoelectric Tech Recent Developments/Updates

Table 63. CoreMorrow Basic Information, Manufacturing Base and Competitors

Table 64. CoreMorrow Major Business

Table 65. CoreMorrow High Voltage Piezoelectric Stack Actuator Product and Services

Table 66. CoreMorrow High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 67. CoreMorrow Recent Developments/Updates

Table 68. Liaoning Yansheng Technology Basic Information, Manufacturing Base and Competitors

Table 69. Liaoning Yansheng Technology Major Business

Table 70. Liaoning Yansheng Technology High Voltage Piezoelectric Stack Actuator Product and Services

Table 71. Liaoning Yansheng Technology High Voltage Piezoelectric Stack Actuator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Liaoning Yansheng Technology Recent Developments/Updates

Table 73. Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 74. Global High Voltage Piezoelectric Stack Actuator Revenue by Manufacturer (2021-2026) & (USD Million)

Table 75. Global High Voltage Piezoelectric Stack Actuator Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 76. Market Position of Manufacturers in High Voltage Piezoelectric Stack Actuator, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 77. Head Office and High Voltage Piezoelectric Stack Actuator Production Site of Key Manufacturer

Table 78. High Voltage Piezoelectric Stack Actuator Market: Company Product Type Footprint

Table 79. High Voltage Piezoelectric Stack Actuator Market: Company Product Application Footprint

Table 80. High Voltage Piezoelectric Stack Actuator New Market Entrants and Barriers to Market Entry

Table 81. High Voltage Piezoelectric Stack Actuator Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 83. Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Region (2021-2026) & (K Units)

Table 84. Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Region (2027-2032) & (K Units)

Table 85. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Region (2021-2026) & (USD Million)

Table 86. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Region (2027-2032) & (USD Million)

Table 87. Global High Voltage Piezoelectric Stack Actuator Average Price by Region (2021-2026) & (US\$/Unit)

Table 88. Global High Voltage Piezoelectric Stack Actuator Average Price by Region (2027-2032) & (US\$/Unit)

Table 89. Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2021-2026) & (K Units)

Table 90. Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2027-2032) & (K Units)

Table 91. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Type (2021-2026) & (USD Million)

Table 92. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Type

(2027-2032) & (USD Million)

Table 93. Global High Voltage Piezoelectric Stack Actuator Average Price by Type (2021-2026) & (US\$/Unit)

Table 94. Global High Voltage Piezoelectric Stack Actuator Average Price by Type (2027-2032) & (US\$/Unit)

Table 95. Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2026) & (K Units)

Table 96. Global High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2027-2032) & (K Units)

Table 97. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Application (2021-2026) & (USD Million)

Table 98. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Application (2027-2032) & (USD Million)

Table 99. Global High Voltage Piezoelectric Stack Actuator Average Price by Application (2021-2026) & (US\$/Unit)

Table 100. Global High Voltage Piezoelectric Stack Actuator Average Price by Application (2027-2032) & (US\$/Unit)

Table 101. North America High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2021-2026) & (K Units)

Table 102. North America High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2027-2032) & (K Units)

Table 103. North America High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2026) & (K Units)

Table 104. North America High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2027-2032) & (K Units)

Table 105. North America High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2021-2026) & (K Units)

Table 106. North America High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2027-2032) & (K Units)

Table 107. North America High Voltage Piezoelectric Stack Actuator Consumption Value by Country (2021-2026) & (USD Million)

Table 108. North America High Voltage Piezoelectric Stack Actuator Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2021-2026) & (K Units)

Table 110. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2021-2026) & (K Units)

Table 114. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2027-2032) & (K Units)

Table 115. Europe High Voltage Piezoelectric Stack Actuator Consumption Value by Country (2021-2026) & (USD Million)

Table 116. Europe High Voltage Piezoelectric Stack Actuator Consumption Value by Country (2027-2032) & (USD Million)

Table 117. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2021-2026) & (K Units)

Table 118. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2027-2032) & (K Units)

Table 119. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2026) & (K Units)

Table 120. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2027-2032) & (K Units)

Table 121. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Region (2021-2026) & (K Units)

Table 122. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity by Region (2027-2032) & (K Units)

Table 123. Asia-Pacific High Voltage Piezoelectric Stack Actuator Consumption Value by Region (2021-2026) & (USD Million)

Table 124. Asia-Pacific High Voltage Piezoelectric Stack Actuator Consumption Value by Region (2027-2032) & (USD Million)

Table 125. South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2021-2026) & (K Units)

Table 126. South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Type (2027-2032) & (K Units)

Table 127. South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2021-2026) & (K Units)

Table 128. South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Application (2027-2032) & (K Units)

Table 129. South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2021-2026) & (K Units)

Table 130. South America High Voltage Piezoelectric Stack Actuator Sales Quantity by Country (2027-2032) & (K Units)

Table 131. South America High Voltage Piezoelectric Stack Actuator Consumption

Value by Country (2021-2026) & (USD Million)

Table 132. South America High Voltage Piezoelectric Stack Actuator Consumption

Value by Country (2027-2032) & (USD Million)

Table 133. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales

Quantity by Type (2021-2026) & (K Units)

Table 134. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales

Quantity by Type (2027-2032) & (K Units)

Table 135. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales

Quantity by Application (2021-2026) & (K Units)

Table 136. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales

Quantity by Application (2027-2032) & (K Units)

Table 137. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales

Quantity by Country (2021-2026) & (K Units)

Table 138. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales

Quantity by Country (2027-2032) & (K Units)

Table 139. Middle East & Africa High Voltage Piezoelectric Stack Actuator Consumption

Value by Country (2021-2026) & (USD Million)

Table 140. Middle East & Africa High Voltage Piezoelectric Stack Actuator Consumption

Value by Country (2027-2032) & (USD Million)

Table 141. High Voltage Piezoelectric Stack Actuator Raw Material

Table 142. Key Manufacturers of High Voltage Piezoelectric Stack Actuator Raw
Materials

Table 143. High Voltage Piezoelectric Stack Actuator Typical Distributors

Table 144. High Voltage Piezoelectric Stack Actuator Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. High Voltage Piezoelectric Stack Actuator Picture
- Figure 2. Global High Voltage Piezoelectric Stack Actuator Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global High Voltage Piezoelectric Stack Actuator Revenue Market Share by Type in 2025
- Figure 4. Preloaded Examples
- Figure 5. Non-preloaded Examples
- Figure 6. Global High Voltage Piezoelectric Stack Actuator Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global High Voltage Piezoelectric Stack Actuator Revenue Market Share by Application in 2025
- Figure 8. Industry and Manufacturing Examples
- Figure 9. Automotive Examples
- Figure 10. Consumer Electronics Examples
- Figure 11. Optical Instruments Examples
- Figure 12. Medical Examples
- Figure 13. Military Examples
- Figure 14. Others Examples
- Figure 15. Global High Voltage Piezoelectric Stack Actuator Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 16. Global High Voltage Piezoelectric Stack Actuator Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 17. Global High Voltage Piezoelectric Stack Actuator Sales Quantity (2021-2032) & (K Units)
- Figure 18. Global High Voltage Piezoelectric Stack Actuator Price (2021-2032) & (US\$/Unit)
- Figure 19. Global High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Manufacturer in 2025
- Figure 20. Global High Voltage Piezoelectric Stack Actuator Revenue Market Share by Manufacturer in 2025
- Figure 21. Producer Shipments of High Voltage Piezoelectric Stack Actuator by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 22. Top 3 High Voltage Piezoelectric Stack Actuator Manufacturer (Revenue) Market Share in 2025
- Figure 23. Top 6 High Voltage Piezoelectric Stack Actuator Manufacturer (Revenue)

Market Share in 2025

Figure 24. Global High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Region (2021-2032)

Figure 25. Global High Voltage Piezoelectric Stack Actuator Consumption Value Market Share by Region (2021-2032)

Figure 26. North America High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 27. Europe High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 28. Asia-Pacific High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 29. South America High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 30. Middle East & Africa High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 31. Global High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Type (2021-2032)

Figure 32. Global High Voltage Piezoelectric Stack Actuator Consumption Value Market Share by Type (2021-2032)

Figure 33. Global High Voltage Piezoelectric Stack Actuator Average Price by Type (2021-2032) & (US\$/Unit)

Figure 34. Global High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Application (2021-2032)

Figure 35. Global High Voltage Piezoelectric Stack Actuator Revenue Market Share by Application (2021-2032)

Figure 36. Global High Voltage Piezoelectric Stack Actuator Average Price by Application (2021-2032) & (US\$/Unit)

Figure 37. North America High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Type (2021-2032)

Figure 38. North America High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Application (2021-2032)

Figure 39. North America High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Country (2021-2032)

Figure 40. North America High Voltage Piezoelectric Stack Actuator Consumption Value Market Share by Country (2021-2032)

Figure 41. United States High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 42. Canada High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 43. Mexico High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 44. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Type (2021-2032)

Figure 45. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Application (2021-2032)

Figure 46. Europe High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Country (2021-2032)

Figure 47. Europe High Voltage Piezoelectric Stack Actuator Consumption Value Market Share by Country (2021-2032)

Figure 48. Germany High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 49. France High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 50. United Kingdom High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 51. Russia High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 52. Italy High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 53. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Type (2021-2032)

Figure 54. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Application (2021-2032)

Figure 55. Asia-Pacific High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Region (2021-2032)

Figure 56. Asia-Pacific High Voltage Piezoelectric Stack Actuator Consumption Value Market Share by Region (2021-2032)

Figure 57. China High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 58. Japan High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 59. South Korea High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 60. India High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 61. Southeast Asia High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 62. Australia High Voltage Piezoelectric Stack Actuator Consumption Value

(2021-2032) & (USD Million)

Figure 63. South America High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Type (2021-2032)

Figure 64. South America High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Application (2021-2032)

Figure 65. South America High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Country (2021-2032)

Figure 66. South America High Voltage Piezoelectric Stack Actuator Consumption Value Market Share by Country (2021-2032)

Figure 67. Brazil High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 68. Argentina High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 69. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Type (2021-2032)

Figure 70. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Application (2021-2032)

Figure 71. Middle East & Africa High Voltage Piezoelectric Stack Actuator Sales Quantity Market Share by Country (2021-2032)

Figure 72. Middle East & Africa High Voltage Piezoelectric Stack Actuator Consumption Value Market Share by Country (2021-2032)

Figure 73. Turkey High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 74. Egypt High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 75. Saudi Arabia High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 76. South Africa High Voltage Piezoelectric Stack Actuator Consumption Value (2021-2032) & (USD Million)

Figure 77. High Voltage Piezoelectric Stack Actuator Market Drivers

Figure 78. High Voltage Piezoelectric Stack Actuator Market Restraints

Figure 79. High Voltage Piezoelectric Stack Actuator Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of High Voltage Piezoelectric Stack Actuator in 2025

Figure 82. Manufacturing Process Analysis of High Voltage Piezoelectric Stack Actuator

Figure 83. High Voltage Piezoelectric Stack Actuator Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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