

Global Stacked Piezo Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Stacked Piezo market size is expected to reach \$ 581 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

?Stacked Piezo? usually refers to a piezoelectric stack actuator (multilayer piezo stack), built by stacking many thin piezoceramic layers (often modified PZT) with internal electrodes. When voltage is applied, the stack expands/contracts along its axis, enabling nanometer resolution, very fast response, high stiffness, and high force. Implementations include discrete (bonded) stacks and co-fired/monolithic multilayer stacks. In 2025, global stacked piezo reached approximately 13,273.3 k units. Upstream for stacked piezo includes piezoceramic materials/powders and formulations (mostly modified PZT, sometimes lead-free systems), internal electrode & conductor materials (thick-film pastes such as Ag/AgPd/Cu), plus organic systems (tape-casting binders/dispersants/solvents) and metals/insulation for end-caps and packaging. For example, PI Ceramic highlights piezo material know-how; CTS provides bulk piezoceramic capabilities; conductor materials are offered by suppliers like Heraeus and DuPont; and some PZT material supply chains include integrated materials players such as Tayca. Downstream demand comes from precision motion/nanopositioning systems, semiconductor & photonics equipment, fast valve/fluid control, vibration control, and harsh-environment aerospace/defense mechatronics, where integrators bundle the stack with drivers, sensors/feedback, and mechanical guiding/amplification into deliverable subsystems.

Stacked piezos are a cornerstone actuator technology where high force, fast response, and ultra-fine positioning are required. Demand tracks semiconductor equipment cycles, precision optics/laser tuning, industrial automation, and high-reliability flow/motion control. The supply landscape often splits between piezoceramic/material specialists

(multilayer stacks/components) and precision motion companies (integrated actuators/modules/stages).

This report studies the global Stacked Piezo production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Stacked Piezo total production and demand, 2021-2032, (K Units)

Global Stacked Piezo total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Stacked Piezo domestic production, consumption, key domestic manufacturers and share

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

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

Global Stacked Piezo production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Stacked Piezo 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 Kyocera, TDK, Yageo (Tokin), CTS Corporation, PI Ceramic GmbH, Niterra, CeramTec, Fuji Ceramics Corporation, Thorlabs, APC International, 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 Stacked Piezo 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 Application. 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 Stacked Piezo Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Stacked Piezo Market, Segmentation by Type:

PZT

Lead-free

Others

Global Stacked Piezo Market, Segmentation by Geometry:

Square/Rectangular Stack

Cylindrical Stack

Thru / Ring Stack

Others

Global Stacked Piezo Market, Segmentation by Drive Voltage Class:

Low Voltage

Medium/High Voltage

Global Stacked Piezo Market, Segmentation by Structure:

Monolithic Co-fired Multilayer Stack

Discrete / Bonded Stack

Preloaded Stack

Others

Global Stacked Piezo Market, Segmentation by Application:

Automotive

Semiconductor Equipment and Precision Optics

Industrial Automation and Machine Tools

Process Control

Scientific Research and Instrumentation

Medical Equipment

Aerospace and Defense

Others

Companies Profiled:

Kyocera

TDK

Yageo (Tokin)

CTS Corporation

PI Ceramic GmbH

Niterra

CeramTec

Fuji Ceramics Corporation

Thorlabs

APC International

Cedrat Technologies

Shanghai YiNGUAN Semiconductor Technology

Jingcui Optical Technology (JCOPTIX)

Piezo Direct

Piezosystem Jena GmbH

CoreMorrow

Beijing Paihe Science & Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Stacked Piezo Production Value by Manufacturer (2021-2026)

- 3.2 World Stacked Piezo Production by Manufacturer (2021-2026)
- 3.3 World Stacked Piezo Average Price by Manufacturer (2021-2026)
- 3.4 Stacked Piezo Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Stacked Piezo Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Stacked Piezo in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Stacked Piezo in 2025
- 3.6 Stacked Piezo Market: Overall Company Footprint Analysis
 - 3.6.1 Stacked Piezo Market: Region Footprint
 - 3.6.2 Stacked Piezo Market: Company Product Type Footprint
 - 3.6.3 Stacked Piezo 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: Stacked Piezo Production Value Comparison
 - 4.1.1 United States VS China: Stacked Piezo Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Stacked Piezo Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Stacked Piezo Production Comparison
 - 4.2.1 United States VS China: Stacked Piezo Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Stacked Piezo Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Stacked Piezo Consumption Comparison
 - 4.3.1 United States VS China: Stacked Piezo Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Stacked Piezo Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Stacked Piezo Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Stacked Piezo Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Stacked Piezo Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Stacked Piezo Production (2021-2026)

4.5 China Based Stacked Piezo Manufacturers and Market Share

4.5.1 China Based Stacked Piezo Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Stacked Piezo Production Value (2021-2026)

4.5.3 China Based Manufacturers Stacked Piezo Production (2021-2026)

4.6 Rest of World Based Stacked Piezo Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Stacked Piezo Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Stacked Piezo Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Stacked Piezo Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Stacked Piezo Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 PZT

5.2.2 Lead-free

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Stacked Piezo Production by Type (2021-2032)

5.3.2 World Stacked Piezo Production Value by Type (2021-2032)

5.3.3 World Stacked Piezo Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY GEOMETRY

6.1 World Stacked Piezo Market Size Overview by Geometry: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Geometry

6.2.1 Square/Rectangular Stack

6.2.2 Cylindrical Stack

6.2.3 Thru / Ring Stack

6.2.4 Others

6.3 Market Segment by Geometry

6.3.1 World Stacked Piezo Production by Geometry (2021-2032)

6.3.2 World Stacked Piezo Production Value by Geometry (2021-2032)

6.3.3 World Stacked Piezo Average Price by Geometry (2021-2032)

7 MARKET ANALYSIS BY DRIVE VOLTAGE CLASS

7.1 World Stacked Piezo Market Size Overview by Drive Voltage Class: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Drive Voltage Class

7.2.1 Low Voltage

7.2.2 Medium/High Voltage

7.3 Market Segment by Drive Voltage Class

7.3.1 World Stacked Piezo Production by Drive Voltage Class (2021-2032)

7.3.2 World Stacked Piezo Production Value by Drive Voltage Class (2021-2032)

7.3.3 World Stacked Piezo Average Price by Drive Voltage Class (2021-2032)

8 MARKET ANALYSIS BY STRUCTURE

8.1 World Stacked Piezo Market Size Overview by Structure: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Structure

8.2.1 Monolithic Co-fired Multilayer Stack

8.2.2 Discrete / Bonded Stack

8.2.3 Preloaded Stack

8.2.4 Others

8.3 Market Segment by Structure

8.3.1 World Stacked Piezo Production by Structure (2021-2032)

8.3.2 World Stacked Piezo Production Value by Structure (2021-2032)

8.3.3 World Stacked Piezo Average Price by Structure (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Stacked Piezo Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Automotive

9.2.2 Semiconductor Equipment and Precision Optics

9.2.3 Industrial Automation and Machine Tools

9.2.4 Process Control

9.2.5 Scientific Research and Instrumentation

9.2.6 Medical Equipment

9.2.7 Aerospace and Defense

9.2.8 Others

9.3 Market Segment by Application

9.3.1 World Stacked Piezo Production by Application (2021-2032)

9.3.2 World Stacked Piezo Production Value by Application (2021-2032)

9.3.3 World Stacked Piezo Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Kyocera

10.1.1 Kyocera Details

10.1.2 Kyocera Major Business

10.1.3 Kyocera Stacked Piezo Product and Services

10.1.4 Kyocera Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Kyocera Recent Developments/Updates

10.1.6 Kyocera Competitive Strengths & Weaknesses

10.2 TDK

10.2.1 TDK Details

10.2.2 TDK Major Business

10.2.3 TDK Stacked Piezo Product and Services

10.2.4 TDK Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 TDK Recent Developments/Updates

10.2.6 TDK Competitive Strengths & Weaknesses

10.3 Yageo (Tokin)

10.3.1 Yageo (Tokin) Details

10.3.2 Yageo (Tokin) Major Business

10.3.3 Yageo (Tokin) Stacked Piezo Product and Services

10.3.4 Yageo (Tokin) Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Yageo (Tokin) Recent Developments/Updates

10.3.6 Yageo (Tokin) Competitive Strengths & Weaknesses

10.4 CTS Corporation

10.4.1 CTS Corporation Details

10.4.2 CTS Corporation Major Business

10.4.3 CTS Corporation Stacked Piezo Product and Services

10.4.4 CTS Corporation Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 CTS Corporation Recent Developments/Updates

10.4.6 CTS Corporation Competitive Strengths & Weaknesses

10.5 PI Ceramic GmbH

10.5.1 PI Ceramic GmbH Details

- 10.5.2 PI Ceramic GmbH Major Business
- 10.5.3 PI Ceramic GmbH Stacked Piezo Product and Services
- 10.5.4 PI Ceramic GmbH Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.5.5 PI Ceramic GmbH Recent Developments/Updates
- 10.5.6 PI Ceramic GmbH Competitive Strengths & Weaknesses
- 10.6 Niterra
 - 10.6.1 Niterra Details
 - 10.6.2 Niterra Major Business
 - 10.6.3 Niterra Stacked Piezo Product and Services
 - 10.6.4 Niterra Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Niterra Recent Developments/Updates
 - 10.6.6 Niterra Competitive Strengths & Weaknesses
- 10.7 CeramTec
 - 10.7.1 CeramTec Details
 - 10.7.2 CeramTec Major Business
 - 10.7.3 CeramTec Stacked Piezo Product and Services
 - 10.7.4 CeramTec Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 CeramTec Recent Developments/Updates
 - 10.7.6 CeramTec Competitive Strengths & Weaknesses
- 10.8 Fuji Ceramics Corporation
 - 10.8.1 Fuji Ceramics Corporation Details
 - 10.8.2 Fuji Ceramics Corporation Major Business
 - 10.8.3 Fuji Ceramics Corporation Stacked Piezo Product and Services
 - 10.8.4 Fuji Ceramics Corporation Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Fuji Ceramics Corporation Recent Developments/Updates
 - 10.8.6 Fuji Ceramics Corporation Competitive Strengths & Weaknesses
- 10.9 Thorlabs
 - 10.9.1 Thorlabs Details
 - 10.9.2 Thorlabs Major Business
 - 10.9.3 Thorlabs Stacked Piezo Product and Services
 - 10.9.4 Thorlabs Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.9.5 Thorlabs Recent Developments/Updates
 - 10.9.6 Thorlabs Competitive Strengths & Weaknesses
- 10.10 APC International

- 10.10.1 APC International Details
- 10.10.2 APC International Major Business
- 10.10.3 APC International Stacked Piezo Product and Services
- 10.10.4 APC International Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.10.5 APC International Recent Developments/Updates
- 10.10.6 APC International Competitive Strengths & Weaknesses
- 10.11 Cedrat Technologies
 - 10.11.1 Cedrat Technologies Details
 - 10.11.2 Cedrat Technologies Major Business
 - 10.11.3 Cedrat Technologies Stacked Piezo Product and Services
 - 10.11.4 Cedrat Technologies Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.11.5 Cedrat Technologies Recent Developments/Updates
 - 10.11.6 Cedrat Technologies Competitive Strengths & Weaknesses
- 10.12 Shanghai YINGUAN Semiconductor Technology
 - 10.12.1 Shanghai YINGUAN Semiconductor Technology Details
 - 10.12.2 Shanghai YINGUAN Semiconductor Technology Major Business
 - 10.12.3 Shanghai YINGUAN Semiconductor Technology Stacked Piezo Product and Services
 - 10.12.4 Shanghai YINGUAN Semiconductor Technology Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.12.5 Shanghai YINGUAN Semiconductor Technology Recent Developments/Updates
 - 10.12.6 Shanghai YINGUAN Semiconductor Technology Competitive Strengths & Weaknesses
- 10.13 Jingcui Optical Technology (JCOPTIX)
 - 10.13.1 Jingcui Optical Technology (JCOPTIX) Details
 - 10.13.2 Jingcui Optical Technology (JCOPTIX) Major Business
 - 10.13.3 Jingcui Optical Technology (JCOPTIX) Stacked Piezo Product and Services
 - 10.13.4 Jingcui Optical Technology (JCOPTIX) Stacked Piezo Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.13.5 Jingcui Optical Technology (JCOPTIX) Recent Developments/Updates
 - 10.13.6 Jingcui Optical Technology (JCOPTIX) Competitive Strengths & Weaknesses
- 10.14 Piezo Direct
 - 10.14.1 Piezo Direct Details
 - 10.14.2 Piezo Direct Major Business
 - 10.14.3 Piezo Direct Stacked Piezo Product and Services
 - 10.14.4 Piezo Direct Stacked Piezo Production, Price, Value, Gross Margin and

Market Share (2021-2026)

- 10.14.5 Piezo Direct Recent Developments/Updates
- 10.14.6 Piezo Direct Competitive Strengths & Weaknesses

10.15 Piezosystem Jena GmbH

- 10.15.1 Piezosystem Jena GmbH Details
- 10.15.2 Piezosystem Jena GmbH Major Business
- 10.15.3 Piezosystem Jena GmbH Stacked Piezo Product and Services
- 10.15.4 Piezosystem Jena GmbH Stacked Piezo Production, Price, Value, Gross

Margin and Market Share (2021-2026)

- 10.15.5 Piezosystem Jena GmbH Recent Developments/Updates
- 10.15.6 Piezosystem Jena GmbH Competitive Strengths & Weaknesses

10.16 CoreMorrow

- 10.16.1 CoreMorrow Details
- 10.16.2 CoreMorrow Major Business
- 10.16.3 CoreMorrow Stacked Piezo Product and Services
- 10.16.4 CoreMorrow Stacked Piezo Production, Price, Value, Gross Margin and

Market Share (2021-2026)

- 10.16.5 CoreMorrow Recent Developments/Updates
- 10.16.6 CoreMorrow Competitive Strengths & Weaknesses

10.17 Beijing Paihe Science & Technology

- 10.17.1 Beijing Paihe Science & Technology Details
- 10.17.2 Beijing Paihe Science & Technology Major Business
- 10.17.3 Beijing Paihe Science & Technology Stacked Piezo Product and Services
- 10.17.4 Beijing Paihe Science & Technology Stacked Piezo Production, Price, Value,

Gross Margin and Market Share (2021-2026)

- 10.17.5 Beijing Paihe Science & Technology Recent Developments/Updates
- 10.17.6 Beijing Paihe Science & Technology Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Stacked Piezo Industry Chain

11.2 Stacked Piezo Upstream Analysis

- 11.2.1 Stacked Piezo Core Raw Materials
- 11.2.2 Main Manufacturers of Stacked Piezo Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Stacked Piezo Production Mode

11.6 Stacked Piezo Procurement Model

11.7 Stacked Piezo Industry Sales Model and Sales Channels

- 11.7.1 Stacked Piezo Sales Model
- 11.7.2 Stacked Piezo 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 Stacked Piezo Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Stacked Piezo Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Stacked Piezo Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Stacked Piezo Production Value Market Share by Region (2021-2026)
- Table 5. World Stacked Piezo Production Value Market Share by Region (2027-2032)
- Table 6. World Stacked Piezo Production by Region (2021-2026) & (K Units)
- Table 7. World Stacked Piezo Production by Region (2027-2032) & (K Units)
- Table 8. World Stacked Piezo Production Market Share by Region (2021-2026)
- Table 9. World Stacked Piezo Production Market Share by Region (2027-2032)
- Table 10. World Stacked Piezo Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Stacked Piezo Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Stacked Piezo Major Market Trends
- Table 13. World Stacked Piezo Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Stacked Piezo Consumption by Region (2021-2026) & (K Units)
- Table 15. World Stacked Piezo Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Stacked Piezo Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Stacked Piezo Producers in 2025
- Table 18. World Stacked Piezo Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Stacked Piezo Producers in 2025
- Table 20. World Stacked Piezo Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Stacked Piezo Company Evaluation Quadrant
- Table 22. World Stacked Piezo Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Stacked Piezo Production Site of Key Manufacturer
- Table 24. Stacked Piezo Market: Company Product Type Footprint
- Table 25. Stacked Piezo Market: Company Product Application Footprint
- Table 26. Stacked Piezo Competitive Factors
- Table 27. Stacked Piezo New Entrant and Capacity Expansion Plans
- Table 28. Stacked Piezo Mergers & Acquisitions Activity
- Table 29. United States VS China Stacked Piezo Production Value Comparison, (2021

& 2025 & 2032) & (USD Million)

Table 30. United States VS China Stacked Piezo Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Stacked Piezo Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Stacked Piezo Manufacturers, Headquarters and Production Site (States, Country)

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

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

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

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

Table 37. China Based Stacked Piezo Manufacturers, Headquarters and Production Site (Province, Country)

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

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

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

Table 41. China Based Manufacturers Stacked Piezo Production Market Share (2021-2026)

Table 42. Rest of World Based Stacked Piezo Manufacturers, Headquarters and Production Site (State, Country)

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

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

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

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

Table 47. World Stacked Piezo Production Value by Type, (USD Million), 2021 & 2025 & 2032

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

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

- Table 50. World Stacked Piezo Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Stacked Piezo Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Stacked Piezo Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Stacked Piezo Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Stacked Piezo Production Value by Geometry, (USD Million), 2021 & 2025 & 2032
- Table 55. World Stacked Piezo Production by Geometry (2021-2026) & (K Units)
- Table 56. World Stacked Piezo Production by Geometry (2027-2032) & (K Units)
- Table 57. World Stacked Piezo Production Value by Geometry (2021-2026) & (USD Million)
- Table 58. World Stacked Piezo Production Value by Geometry (2027-2032) & (USD Million)
- Table 59. World Stacked Piezo Average Price by Geometry (2021-2026) & (US\$/Unit)
- Table 60. World Stacked Piezo Average Price by Geometry (2027-2032) & (US\$/Unit)
- Table 61. World Stacked Piezo Production Value by Drive Voltage Class, (USD Million), 2021 & 2025 & 2032
- Table 62. World Stacked Piezo Production by Drive Voltage Class (2021-2026) & (K Units)
- Table 63. World Stacked Piezo Production by Drive Voltage Class (2027-2032) & (K Units)
- Table 64. World Stacked Piezo Production Value by Drive Voltage Class (2021-2026) & (USD Million)
- Table 65. World Stacked Piezo Production Value by Drive Voltage Class (2027-2032) & (USD Million)
- Table 66. World Stacked Piezo Average Price by Drive Voltage Class (2021-2026) & (US\$/Unit)
- Table 67. World Stacked Piezo Average Price by Drive Voltage Class (2027-2032) & (US\$/Unit)
- Table 68. World Stacked Piezo Production Value by Structure, (USD Million), 2021 & 2025 & 2032
- Table 69. World Stacked Piezo Production by Structure (2021-2026) & (K Units)
- Table 70. World Stacked Piezo Production by Structure (2027-2032) & (K Units)
- Table 71. World Stacked Piezo Production Value by Structure (2021-2026) & (USD Million)
- Table 72. World Stacked Piezo Production Value by Structure (2027-2032) & (USD Million)
- Table 73. World Stacked Piezo Average Price by Structure (2021-2026) & (US\$/Unit)
- Table 74. World Stacked Piezo Average Price by Structure (2027-2032) & (US\$/Unit)
- Table 75. World Stacked Piezo Production Value by Application, (USD Million), 2021 &

2025 & 2032

Table 76. World Stacked Piezo Production by Application (2021-2026) & (K Units)

Table 77. World Stacked Piezo Production by Application (2027-2032) & (K Units)

Table 78. World Stacked Piezo Production Value by Application (2021-2026) & (USD Million)

Table 79. World Stacked Piezo Production Value by Application (2027-2032) & (USD Million)

Table 80. World Stacked Piezo Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World Stacked Piezo Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. Kyocera Basic Information, Manufacturing Base and Competitors

Table 83. Kyocera Major Business

Table 84. Kyocera Stacked Piezo Product and Services

Table 85. Kyocera Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Kyocera Recent Developments/Updates

Table 87. Kyocera Competitive Strengths & Weaknesses

Table 88. TDK Basic Information, Manufacturing Base and Competitors

Table 89. TDK Major Business

Table 90. TDK Stacked Piezo Product and Services

Table 91. TDK Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. TDK Recent Developments/Updates

Table 93. TDK Competitive Strengths & Weaknesses

Table 94. Yageo (Tokin) Basic Information, Manufacturing Base and Competitors

Table 95. Yageo (Tokin) Major Business

Table 96. Yageo (Tokin) Stacked Piezo Product and Services

Table 97. Yageo (Tokin) Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Yageo (Tokin) Recent Developments/Updates

Table 99. Yageo (Tokin) Competitive Strengths & Weaknesses

Table 100. CTS Corporation Basic Information, Manufacturing Base and Competitors

Table 101. CTS Corporation Major Business

Table 102. CTS Corporation Stacked Piezo Product and Services

Table 103. CTS Corporation Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. CTS Corporation Recent Developments/Updates

Table 105. CTS Corporation Competitive Strengths & Weaknesses

Table 106. PI Ceramic GmbH Basic Information, Manufacturing Base and Competitors

Table 107. PI Ceramic GmbH Major Business

- Table 108. PI Ceramic GmbH Stacked Piezo Product and Services
- Table 109. PI Ceramic GmbH Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 110. PI Ceramic GmbH Recent Developments/Updates
- Table 111. PI Ceramic GmbH Competitive Strengths & Weaknesses
- Table 112. Niterra Basic Information, Manufacturing Base and Competitors
- Table 113. Niterra Major Business
- Table 114. Niterra Stacked Piezo Product and Services
- Table 115. Niterra Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 116. Niterra Recent Developments/Updates
- Table 117. Niterra Competitive Strengths & Weaknesses
- Table 118. CeramTec Basic Information, Manufacturing Base and Competitors
- Table 119. CeramTec Major Business
- Table 120. CeramTec Stacked Piezo Product and Services
- Table 121. CeramTec Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 122. CeramTec Recent Developments/Updates
- Table 123. CeramTec Competitive Strengths & Weaknesses
- Table 124. Fuji Ceramics Corporation Basic Information, Manufacturing Base and Competitors
- Table 125. Fuji Ceramics Corporation Major Business
- Table 126. Fuji Ceramics Corporation Stacked Piezo Product and Services
- Table 127. Fuji Ceramics Corporation Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 128. Fuji Ceramics Corporation Recent Developments/Updates
- Table 129. Fuji Ceramics Corporation Competitive Strengths & Weaknesses
- Table 130. Thorlabs Basic Information, Manufacturing Base and Competitors
- Table 131. Thorlabs Major Business
- Table 132. Thorlabs Stacked Piezo Product and Services
- Table 133. Thorlabs Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 134. Thorlabs Recent Developments/Updates
- Table 135. Thorlabs Competitive Strengths & Weaknesses
- Table 136. APC International Basic Information, Manufacturing Base and Competitors
- Table 137. APC International Major Business
- Table 138. APC International Stacked Piezo Product and Services
- Table 139. APC International Stacked Piezo Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. APC International Recent Developments/Updates

Table 141. APC International Competitive Strengths & Weaknesses

Table 142. Cedrat Technologies Basic Information, Manufacturing Base and Competitors

Table 143. Cedrat Technologies Major Business

Table 144. Cedrat Technologies Stacked Piezo Product and Services

Table 145. Cedrat Technologies Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Cedrat Technologies Recent Developments/Updates

Table 147. Cedrat Technologies Competitive Strengths & Weaknesses

Table 148. Shanghai YiNGUAN Semiconductor Technology Basic Information, Manufacturing Base and Competitors

Table 149. Shanghai YiNGUAN Semiconductor Technology Major Business

Table 150. Shanghai YiNGUAN Semiconductor Technology Stacked Piezo Product and Services

Table 151. Shanghai YiNGUAN Semiconductor Technology Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Shanghai YiNGUAN Semiconductor Technology Recent Developments/Updates

Table 153. Shanghai YiNGUAN Semiconductor Technology Competitive Strengths & Weaknesses

Table 154. Jingcui Optical Technology (JCOPTIX) Basic Information, Manufacturing Base and Competitors

Table 155. Jingcui Optical Technology (JCOPTIX) Major Business

Table 156. Jingcui Optical Technology (JCOPTIX) Stacked Piezo Product and Services

Table 157. Jingcui Optical Technology (JCOPTIX) Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Jingcui Optical Technology (JCOPTIX) Recent Developments/Updates

Table 159. Jingcui Optical Technology (JCOPTIX) Competitive Strengths & Weaknesses

Table 160. Piezo Direct Basic Information, Manufacturing Base and Competitors

Table 161. Piezo Direct Major Business

Table 162. Piezo Direct Stacked Piezo Product and Services

Table 163. Piezo Direct Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. Piezo Direct Recent Developments/Updates

Table 165. Piezo Direct Competitive Strengths & Weaknesses

Table 166. Piezosystem Jena GmbH Basic Information, Manufacturing Base and Competitors

Table 167. Piezosystem Jena GmbH Major Business

Table 168. Piezosystem Jena GmbH Stacked Piezo Product and Services

Table 169. Piezosystem Jena GmbH Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. Piezosystem Jena GmbH Recent Developments/Updates

Table 171. Piezosystem Jena GmbH Competitive Strengths & Weaknesses

Table 172. CoreMorrow Basic Information, Manufacturing Base and Competitors

Table 173. CoreMorrow Major Business

Table 174. CoreMorrow Stacked Piezo Product and Services

Table 175. CoreMorrow Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 176. CoreMorrow Recent Developments/Updates

Table 177. CoreMorrow Competitive Strengths & Weaknesses

Table 178. Beijing Paihe Science & Technology Basic Information, Manufacturing Base and Competitors

Table 179. Beijing Paihe Science & Technology Major Business

Table 180. Beijing Paihe Science & Technology Stacked Piezo Product and Services

Table 181. Beijing Paihe Science & Technology Stacked Piezo Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 182. Beijing Paihe Science & Technology Recent Developments/Updates

Table 183. Beijing Paihe Science & Technology Competitive Strengths & Weaknesses

Table 184. Global Key Players of Stacked Piezo Upstream (Raw Materials)

Table 185. Global Stacked Piezo Typical Customers

Table 186. Stacked Piezo Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Stacked Piezo Picture

Figure 2. World Stacked Piezo Production Value: 2021 & 2025 & 2032, (USD Million)

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

Figure 4. World Stacked Piezo Production (2021-2032) & (K Units)

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

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

Figure 7. World Stacked Piezo Production Market Share by Region (2021-2032)

Figure 8. North America Stacked Piezo Production (2021-2032) & (K Units)

Figure 9. Europe Stacked Piezo Production (2021-2032) & (K Units)

Figure 10. China Stacked Piezo Production (2021-2032) & (K Units)

Figure 11. Japan Stacked Piezo Production (2021-2032) & (K Units)

Figure 12. Stacked Piezo Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Stacked Piezo Consumption (2021-2032) & (K Units)

Figure 15. World Stacked Piezo Consumption Market Share by Region (2021-2032)

Figure 16. United States Stacked Piezo Consumption (2021-2032) & (K Units)

Figure 17. China Stacked Piezo Consumption (2021-2032) & (K Units)

Figure 18. Europe Stacked Piezo Consumption (2021-2032) & (K Units)

Figure 19. Japan Stacked Piezo Consumption (2021-2032) & (K Units)

Figure 20. South Korea Stacked Piezo Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Stacked Piezo Consumption (2021-2032) & (K Units)

Figure 22. India Stacked Piezo Consumption (2021-2032) & (K Units)

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

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

Figure 25. Global Four-firm Concentration Ratios (CR8) for Stacked Piezo Markets in 2025

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

Figure 27. United States VS China: Stacked Piezo Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Stacked Piezo Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Stacked Piezo Production Market Share 2025

Figure 30. China Based Manufacturers Stacked Piezo Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Stacked Piezo Production Market Share 2025

Figure 32. World Stacked Piezo Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Stacked Piezo Production Value Market Share by Type in 2025

Figure 34. PZT

Figure 35. Lead-free

Figure 36. Others

Figure 37. World Stacked Piezo Production Market Share by Type (2021-2032)

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

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

Figure 40. World Stacked Piezo Production Value by Geometry, (USD Million), 2021 & 2025 & 2032

Figure 41. World Stacked Piezo Production Value Market Share by Geometry in 2025

Figure 42. Square/Rectangular Stack

Figure 43. Cylindrical Stack

Figure 44. Thru / Ring Stack

Figure 45. Others

Figure 46. World Stacked Piezo Production Market Share by Geometry (2021-2032)

Figure 47. World Stacked Piezo Production Value Market Share by Geometry (2021-2032)

Figure 48. World Stacked Piezo Average Price by Geometry (2021-2032) & (US\$/Unit)

Figure 49. World Stacked Piezo Production Value by Drive Voltage Class, (USD Million), 2021 & 2025 & 2032

Figure 50. World Stacked Piezo Production Value Market Share by Drive Voltage Class in 2025

Figure 51. Low Voltage

Figure 52. Medium/High Voltage

Figure 53. World Stacked Piezo Production Market Share by Drive Voltage Class (2021-2032)

Figure 54. World Stacked Piezo Production Value Market Share by Drive Voltage Class (2021-2032)

Figure 55. World Stacked Piezo Average Price by Drive Voltage Class (2021-2032) & (US\$/Unit)

Figure 56. World Stacked Piezo Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Figure 57. World Stacked Piezo Production Value Market Share by Structure in 2025

Figure 58. Monolithic Co-fired Multilayer Stack

Figure 59. Discrete / Bonded Stack

Figure 60. Preloaded Stack

Figure 61. Others

Figure 62. World Stacked Piezo Production Market Share by Structure (2021-2032)

Figure 63. World Stacked Piezo Production Value Market Share by Structure (2021-2032)

Figure 64. World Stacked Piezo Average Price by Structure (2021-2032) & (US\$/Unit)

Figure 65. World Stacked Piezo Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World Stacked Piezo Production Value Market Share by Application in 2025

Figure 67. Automotive

Figure 68. Semiconductor Equipment and Precision Optics

Figure 69. Industrial Automation and Machine Tools

Figure 70. Process Control

Figure 71. Scientific Research and Instrumentation

Figure 72. Medical Equipment

Figure 73. Aerospace and Defense

Figure 74. Others

Figure 75. Others

Figure 76. World Stacked Piezo Production Market Share by Application (2021-2032)

Figure 77. World Stacked Piezo Production Value Market Share by Application (2021-2032)

Figure 78. World Stacked Piezo Average Price by Application (2021-2032) & (US\$/Unit)

Figure 79. Stacked Piezo Industry Chain

Figure 80. Stacked Piezo Procurement Model

Figure 81. Stacked Piezo Sales Model

Figure 82. Stacked Piezo Sales Channels, Direct Sales, and Distribution

Figure 83. Methodology

Figure 84. Research Process and Data Source

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