

# Global Piezoelectric Linear Actuators Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6ECDA779257EN.html>

Date: January 2026

Pages: 219

Price: US\$ 4,480.00 (Single User License)

ID: G6ECDA779257EN

## Abstracts

The global Piezoelectric Linear Actuators market size is expected to reach \$ 999 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Piezoelectric linear actuators are precision linear actuators based on the inverse piezoelectric effect of piezoelectric ceramics. By applying an alternating voltage to the piezoelectric material, it causes micron/nanometer-level stretching and deformation, which is then converted into controllable linear displacement through a mechanical amplification mechanism. They feature high precision, high frequency response, no electromagnetic interference, and small size, making them a core component for achieving ultra-precision positioning and micro-drive.

The global production of piezoelectric linear actuators is projected to reach 2.05 million units by 2025, with an average price of \$350 per unit.

Upstream of piezoelectric linear actuators mainly includes piezoelectric ceramic materials, metal electrode materials, precision flexure components, and high-stability electronic components. Downstream applications are concentrated in high-end precision fields, with key demand from semiconductor equipment, optical and photonic systems, precision positioning stages, and medical and life science instruments. End users place strong emphasis on displacement resolution, response speed, repeatability, long-term stability, and miniaturization, where piezoelectric linear actuators offer irreplaceable advantages in nanometer positioning, fast scanning, and non-magnetic, low-noise environments.

Industry trends point toward higher precision, greater force density, smaller form factors, and deeper system-level integration, especially with closed-loop control and intelligent drive modules. Major drivers include advances in semiconductor manufacturing nodes, rising precision requirements in optical inspection and fabrication, growing demand for high-end medical devices, and increased investment in scientific research

instrumentation. Key constraints involve high material and precision manufacturing costs, application and tuning complexity, and competition from alternative technologies in long-stroke or cost-sensitive applications.

Gross margins for piezoelectric linear actuators are generally high, typically ranging from 35% to 55%. Suppliers with proprietary piezo materials, advanced mechanical design, and full system solution capabilities achieve higher margins, while vendors focused on standardized components or contract manufacturing face relatively lower profitability.

This report studies the global Piezoelectric Linear Actuators production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Piezoelectric Linear Actuators total production and demand, 2021-2032, (Units)

Global Piezoelectric Linear Actuators total production value, 2021-2032, (USD Million)

Global Piezoelectric Linear Actuators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Piezoelectric Linear Actuators consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Piezoelectric Linear Actuators domestic production, consumption, key domestic manufacturers and share

Global Piezoelectric Linear Actuators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Piezoelectric Linear Actuators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Piezoelectric Linear Actuators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Piezoelectric Linear Actuators market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Physik Instrumente (PI), CEDRAT TECHNOLOGIES, Piezomechanik GmbH, Piezosystem Jena GmbH, APC International, Ltd., CTS Corporation, TDK Electronics (TDK Corporation), Murata Manufacturing Co., Ltd., Kyocera Corporation, NGK INSULATORS, LTD., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Piezoelectric Linear Actuators market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Piezoelectric Linear Actuators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Piezoelectric Linear Actuators Market, Segmentation by Type:

Stacked

Peristaltic

Inchworm

Inertial

Global Piezoelectric Linear Actuators Market, Segmentation by Displacement Range:

Nanometer

Micrometer

Millimeter

#### Global Piezoelectric Linear Actuators Market, Segmentation by Control Method:

Open-Loop Control

Closed-Loop Control

#### Global Piezoelectric Linear Actuators Market, Segmentation by Application:

Ultra-Precision Machining

Semiconductors & Microelectronics

Optical Instruments & Laser Technology

Medical

Aerospace & Defense

#### **Companies Profiled:**

Physik Instrumente (PI)

CEDRAT TECHNOLOGIES

Piezomechanik GmbH

Piezosystem Jena GmbH

APC International, Ltd.

CTS Corporation

TDK Electronics (TDK Corporation)

Murata Manufacturing Co., Ltd.

Kyocera Corporation

NGK INSULATORS, LTD.

CeramTec GmbH

Kinetic Ceramics, Inc.

Piezo Kinetics Inc.

TRS Technologies, Inc.

Piezo Systems, Inc.

Piezo Direct

PiezoDrive Pty Ltd.

Nanomotion Ltd.

PiezoMotor Uppsala AB

Xeryon

New Scale Technologies, Inc.

SmarAct GmbH

attocube systems AG

Queensgate Instruments

MKS Instruments (Newport)

Dynamic Structures and Materials, LLC

Smart Material GmbH

Sinocera Piezotronics, Inc.

CoreMorrow Ltd.

Piezotechnics GmbH

STEMinc

Piezo Electric Technology (Korea)

**Key Questions Answered:**

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

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