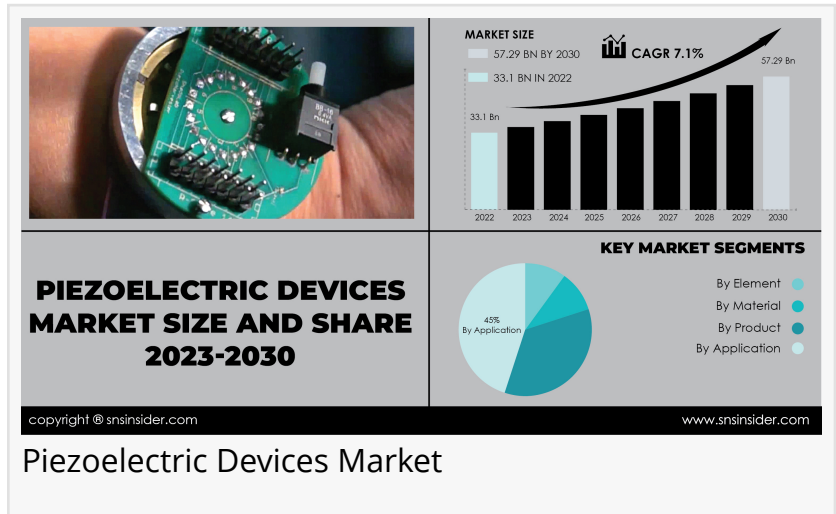


# Piezoelectric Devices Market to Cross USD 57.29 Billion by 2030 owing to Advancements in Nanotechnology and Automotive

*Piezoelectric Devices Market Size, Share, Growth, Trend, Global Industry Overview and Regional Analysis, Forecast 2023 - 2030*

AUSTIN, TEXAS, UNITED STATES, January 22, 2024 /EINPresswire.com/ -- SNS Insider published an exclusive report, titled, "[Piezoelectric Devices Market](#) Size, Share, And Segmentation, By Product, By Material, By Element, By Application, By Region, And Segment Forecasts, 2023 – 2030".



Piezoelectric Devices Market

The size of piezoelectric devices market reached USD 33.1 billion in 2022 and is projected to reach USD 57.29 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 7.1% during the forecast period from 2023 to 2030, as stated in the SNS Insider report.

## Piezoelectric Devices Market Report Scope

Piezoelectric devices, a revolutionary class of materials, have emerged as essential components in various industries owing to their unique ability to convert mechanical vibrations into electrical energy and vice versa. These devices are based on the piezoelectric effect, a phenomenon where certain materials generate an electric charge in response to applied mechanical stress. Key elements exhibiting piezoelectric properties include crystals such as quartz, ceramics, and certain polymers.

For more information, please contact SNS Insider at <https://www.snsinsider.com/sample-request/3148>

List of Key Players Covered in Piezoelectric Devices market report are:

- CeramTec GmbH (Germany)

- CTS Corporation (US)
- Kistler Group (Switzerland)
- Physik Instrumente (PI) GmbH & Co. KG. (Germany)
- piezosystem jena GmbH (Germany)
- Piezo Technologies (US)
- Aerotech Inc. (US)
- APC International, Ltd., (US)
- Mad City Labs, Inc. (US)
- CTS Corporation.

## Impact of Recession

The ongoing recession has cast a dual impact on the piezoelectric devices market, presenting challenges while also fostering opportunities for innovation and adaptation. Recession-induced disruptions in the supply chain have affected the manufacturing and distribution of piezoelectric devices, leading to temporary setbacks. Amid economic uncertainties, industries are increasingly prioritizing cost-effective solutions, influencing purchasing decisions in the market. Recession periods often drive innovation, pushing companies to develop more efficient and affordable piezoelectric solutions to maintain market competitiveness.

## Impact of Russia-Ukraine War

The geopolitical tensions arising from the Russia-Ukraine War have left an indelible mark on the global economy, with the piezoelectric devices market experiencing both positive and negative repercussions. The conflict has led to disruptions in the supply chain, affecting the availability of raw materials crucial for piezoelectric device manufacturing. The heightened focus on defence and security measures has led to an increased demand for piezoelectric devices in aerospace and defence applications. The geopolitical instability has introduced market volatility, influencing investment decisions and strategies within the piezoelectric devices industry.

## Market Analysis

The piezoelectric devices market is propelled by several key growth drivers, underlining its significance in the contemporary technological landscape. The continuous evolution and innovation in these devices are contributing to their widespread adoption across diverse industries. Piezoelectric devices are extensively used in medical imaging, diagnostics, and therapeutic applications, driving market growth. Nanoscale piezoelectric materials are opening new avenues for applications, fostering market expansion. The increasing integration of piezoelectric sensors in IoT devices and smart technologies is a major growth driver. Growing interest in sustainable energy solutions boosts the demand for piezoelectric energy harvesting devices.

## Key Regional Development

The North American piezoelectric devices market is driven by robust investments in research and development, particularly in healthcare and aerospace sectors. The presence of key players and a supportive regulatory environment further contribute to market growth. Europe showcases a thriving market for piezoelectric devices, with a strong emphasis on sustainability and renewable energy solutions. Increasing applications in automotive and industrial sectors contribute to the region's market dynamics. The Asia-Pacific region leads the global market, propelled by rapid industrialization, technological advancements, and the adoption of smart technologies. China and Japan are key contributors to the region's growth.

□□□□□ □□□□ □□□□□□ □□□□□□ @ <https://www.snsinsider.com/reports/piezoelectric-devices-market-3148>

### Key Takeaway from Piezoelectric Devices Market Study

- The piezoelectric sensors segment dominates the market, fueled by their widespread use in various applications, including healthcare, automotive, and industrial processes. Miniaturization and improved sensitivity contribute to their market dominance.
- The aerospace and defence sector holds a significant share in the piezoelectric devices market, driven by the increasing demand for advanced sensing and actuation technologies. Applications include structural health monitoring, vibration control, and acoustic sensing in aircraft and military systems.

### Recent Developments Related to Piezoelectric Devices Market

- PAVmed, a leading innovator in the field, has recently formed a strategic partnership with Novosound, a prominent player in ultrasound imaging technology. This collaboration aims to harness the combined expertise of both companies to push the boundaries of ultrasound applications in the medical field.
- Aerotech, Inc. and Micronix USA have recently announced a strategic partnership aimed at providing complementary precision motion products. This collaboration is expected to create a robust synergy between the two companies, enabling the delivery of high-performance nanopositioning products to industrial markets.

□□□□□ □□ □□□□□□□

## 1. Introduction

### 1.1 Market Definition

### 1.2 Scope

### 1.3 Research Assumptions

## 2. Research Methodology

## 3. Market Dynamics

### 3.1 Drivers

### 3.2 Restraints

### 3.3 Opportunities

### 3.4 Challenges

## 4. Impact Analysis

### 4.1 Impact of Russia-Ukraine War

### 4.2 Impact of Ongoing Recession

#### 4.2.1 Introduction

#### 4.2.2 Impact on major economies

##### 4.2.2.1 US

##### 4.2.2.2 Canada

##### 4.2.2.3 Germany

##### 4.2.2.4 France

##### 4.2.2.5 United Kingdom

##### 4.2.2.6 China

##### 4.2.2.7 Japan

##### 4.2.2.8 South Korea

##### 4.2.2.9 Rest of the World

## 5. Value Chain Analysis

## 6. Porter's 5 forces model

## 7. PEST Analysis

## 8. Piezoelectric Devices Market Segmentation, By Product

### 8.1 Piezoelectric Sensors

### 8.2 Piezoelectric Actuators

#### 8.2.1 Stack Actuators

#### 8.2.2 Strip Actuators

#### 8.2.3 Shear Actuators

#### 8.2.4 Tube Actuators

### 8.3 Piezoelectric Motors

### 8.4 Piezoelectric Generators

### 8.5 Piezoelectric Transducers

### 8.6 Others

## 9. Piezoelectric Devices Market Segmentation, By Material

### 9.1 Piezoelectric Crystals

### 9.2 Piezoelectric Ceramics

### 9.3 Piezoelectric Polymers

## 9.4 Piezoelectric Composites

### 10. Piezoelectric Devices Market Segmentation, By Element

#### 10.1 Piezoelectric Discs

#### 10.2 Piezoelectric Rings

#### 10.3 Piezoelectric Plates

### 11. Piezoelectric Devices Market Segmentation, By Application

#### 11.1 Aerospace and Defence

#### 11.2 Industrial and Manufacturing

#### 11.3 Automotive

#### 11.4 Healthcare

##### 11.4.1 Imaging Devices

##### 11.4.2 Diagnostic Equipment

##### 11.4.3 Surgical Tools

#### 11.5 Information and Communication

#### 11.6 Consumer Electronics

.....

### 13 Company Profile

#### 13.1 CeramTec GmbH (Germany)

##### 13.1.1 Company Overview

##### 13.1.2 Financials

##### 13.1.3 Product/Services/Offerings

##### 13.1.4 SWOT Analysis

##### 13.1.5 The SNS View

#### 13.2 CTS Corporation (US)

##### 13.2.1 Company Overview

##### 13.2.2 Financials

##### 13.2.3 Product/Services/Offerings

##### 13.2.4 SWOT Analysis

##### 13.2.5 The SNS View

#### 13.3 Kistler Group (Switzerland)

##### 13.3.1 Company Overview

##### 13.3.2 Financials

##### 13.3.3 Product/Services/Offerings

##### 13.3.4 SWOT Analysis

##### 13.3.5 The SNS View

#### 13.4 Physik Instrumente (PI) GmbH & Co. KG. (Germany)

##### 13.4 Company Overview

##### 13.4.2 Financials

##### 13.4.3 Product/Services/Offerings

##### 13.4.4 SWOT Analysis

- 13.4.5 The SNS View
- 13.5 piezosystem jena GmbH (Germany)
  - 13.5.1 Company Overview
  - 13.5.2 Financials
  - 13.5.3 Product/Services/Offerings
  - 13.5.4 SWOT Analysis
  - 13.5.5 The SNS View
- 13.6 Piezo Technologies (US)
  - 13.6.1 Company Overview
  - 13.6.2 Financials
  - 13.6.3 Product/Services/Offerings
  - 13.6.4 SWOT Analysis
  - 13.6.5 The SNS View
- 13.7 Aerotech Inc. (US)
  - 13.7.1 Company Overview
  - 13.7.2 Financials
  - 13.7.3 Product/Services/Offerings
  - 13.7.4 SWOT Analysis
  - 13.7.5 The SNS View
- 13.8 APC International, Ltd., (US)
  - 13.8.1 Company Overview
  - 13.8.2 Financials
  - 13.8.3 Product/Services/Offerings
  - 13.8.4 SWOT Analysis
  - 13.8.5 The SNS View

Continued....

□□□ □□□□□□□□ □□□□□□ □□ □□□□□□□□□□ □□□□□ @ <https://www.snsinsider.com/checkout/3148>

#### About Us:

SNS Insider has been a leader in data and analytics globally with its authentic consumer and market insights. The trust of our clients and business partners has always been at the center of who we are as a company. We are a business that leads the industry in innovation, and to support the success of our clients, our highly skilled engineers, consultants, and data scientists have consistently pushed the limits of the industry with innovative methodology and measuring technologies.

Akash Anand  
SNS Insider Pvt. Ltd  
+1 415-230-0044  
info@snsinsider.com  
Visit us on social media:

[Facebook](#)

[Twitter](#)

[LinkedIn](#)

[Instagram](#)

[YouTube](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/682933731>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.