

Global Silicon-on-Insulator (SOI) Pressure Transducers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon-on-Insulator (SOI) Pressure Transducers market size is expected to reach \$ 297 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global Silicon-on-Insulator (SOI) Pressure Transducers production reached approximately 361.8 k units with an average global market price of around US\$456 per unit. Single-line annual production capacity averages 29 k units with a gross margin of approximately 32-35%. The upstream of Silicon-on-Insulator (SOI) Pressure Transducers primarily involves silicon wafers, insulating materials, and microelectronic processes, which are concentrated in the semiconductor and sensor technology fields; the downstream applications are extensive, with aerospace accounting for 20%, automotive 30%, petrochemical 15%, medical 10%, food 5%, and others 20%. The market demand for these transducers is continuously growing, and the main business opportunities lie in high-end manufacturing and special environment applications.

Silicon-on-Insulator (SOI) pressure transducers utilize a unique semiconductor process that involves the integration of a silicon sensor layer on an insulating substrate, which significantly enhances the transducer's performance. This innovative technology allows for the creation of high-precision sensors that are highly resistant to temperature variations, noise, and electromagnetic interference. The resulting transducers offer exceptional accuracy and stability across a wide range of temperatures, making them ideal for demanding applications where reliability and precision are paramount. The ability to fabricate complex sensor structures and integrate additional features on the same die further expands the transducer's capabilities and potential applications.

This report studies the global Silicon-on-Insulator (SOI) Pressure Transducers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon-on-Insulator (SOI) Pressure Transducers total production and demand, 2021-2032, (K Units)

Global Silicon-on-Insulator (SOI) Pressure Transducers total production value, 2021-2032, (USD Million)

Global Silicon-on-Insulator (SOI) Pressure Transducers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Silicon-on-Insulator (SOI) Pressure Transducers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Silicon-on-Insulator (SOI) Pressure Transducers domestic production, consumption, key domestic manufacturers and share

Global Silicon-on-Insulator (SOI) Pressure Transducers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Silicon-on-Insulator (SOI) Pressure Transducers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Silicon-on-Insulator (SOI) Pressure Transducers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silicon-on-Insulator (SOI) Pressure Transducers 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 Kulite, Goodrich, Gefran, Kistler, AMETEK, Endevco (Amphenol), Sensata Technologies, Hydra-Electric, Auxitrol Weston, 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 Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon-on-Insulator (SOI) Pressure Transducers Market, Segmentation by Type:

?±1% FS

?±1% FS

Global Silicon-on-Insulator (SOI) Pressure Transducers Market, Segmentation by Transducer Operating Temperature:

?300°C

?300°C

Global Silicon-on-Insulator (SOI) Pressure Transducers Market, Segmentation by Application:

Aerospace

Automotive

Petrochemicals

Medical

Food & Beverage

Others

Companies Profiled:

Kulite

Goodrich

Gefran

Kistler

AMETEK

Endevco (Amphenol)

Sensata Technologies

Hydra-Electric

Auxitrol Weston

Key Questions Answered:

1. How big is the global Silicon-on-Insulator (SOI) Pressure Transducers market?
2. What is the demand of the global Silicon-on-Insulator (SOI) Pressure Transducers market?
3. What is the year over year growth of the global Silicon-on-Insulator (SOI) Pressure Transducers market?
4. What is the production and production value of the global Silicon-on-Insulator (SOI) Pressure Transducers market?
5. Who are the key producers in the global Silicon-on-Insulator (SOI) Pressure Transducers market?
6. What are the growth factors driving the market demand?

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