

Global Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers market size was valued at US\$ 170 million in 2025 and is forecast to a readjusted size of US\$ 297 million by 2032 with a CAGR of 8.3% during review period.

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 is a detailed and comprehensive analysis for global Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers
- 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 Silicon-on-Insulator (SOI) Pressure Transducers 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 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.

Market Segmentation

Silicon-on-Insulator (SOI) Pressure Transducers 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

?±1% FS

?±1% FS

Market segment by Transducer Operating Temperature

?300°C

?300°C

Market segment by Application

Aerospace

Automotive

Petrochemicals

Medical

Food & Beverage

Others

Major players covered

Kulite

Goodrich

Gefran

Kistler

AMETEK

Endevco (Amphenol)

Sensata Technologies

Hydra-Electric

Auxitrol Weston

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 Silicon-on-Insulator (SOI) Pressure Transducers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon-on-Insulator (SOI) Pressure Transducers, with price, sales quantity, revenue, and global market share of Silicon-on-Insulator (SOI) Pressure Transducers from 2021 to 2026.

Chapter 3, the Silicon-on-Insulator (SOI) Pressure Transducers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers 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 Silicon-on-Insulator (SOI) Pressure Transducers.

Chapter 14 and 15, to describe Silicon-on-Insulator (SOI) Pressure Transducers sales channel, distributors, customers, research findings and conclusion.

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