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Global Silicon Strain Gauges Market Growth 2026-2032

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Abstracts

The global Silicon Strain Gauges market size is predicted to grow from US$ 29.90 million in 2025 to US$ 44.88 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 2032.

In 2025, global production of silicon strain gauges reached 13.891 million units, with an average selling price of $2.2 per unit. The annual production capacity of silicon strain gauges worldwide was approximately 20 million units, with a gross margin of about 28.5%. Silicon strain gauges are force?sensing elements based on the piezoresistive effect of single?crystal silicon. When a silicon wafer is deformed by external force, its internal resistivity changes regularly, and the magnitude of strain or stress can be calculated by measuring the change in resistance. Compared with traditional metal strain gauges, silicon strain gauges have the advantages of high sensitivity, small size, fast response, and ease of integration, and are widely used in pressure sensors, accelerometers, and microelectromechanical systems (MEMS). The upstream of the silicon strain gauge industry chain includes silicon, silicon ingots, and thin?film deposition and micromachining materials; the midstream consists of silicon strain gauge manufacturers; and the downstream is mainly industries such as aerospace, construction, and automotive.

Currently, the market for silicon strain gauges is in a phase of steady growth. With the rapid advancement of industrial automation, smart sensing, and the Internet of Things, the demand for high-sensitivity, miniaturized sensors continues to rise. Silicon strain gauges, with their excellent piezoresistive properties and good integration compatibility, are increasingly used in pressure sensing, acceleration measurement, and microelectromechanical systems (MEMS) devices. At the same time, technological upgrades in downstream fields such as automotive electronics, aerospace structural

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monitoring, and medical healthcare equipment are driving silicon strain gauges toward higher accuracy, wider temperature ranges, and lower power consumption. However, market competition is becoming increasingly intense, and product homogenization is emerging to some extent. The growing requirements for manufacturing processes and material purity are prompting industry participants to focus more on technological R&D and differentiated innovation. The overall market is gradually shifting from capacity expansion toward value enhancement and refined development.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Silicon Strain Gauges Industry Forecast” looks at past sales and reviews total world Silicon Strain Gauges sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Strain Gauges sales for 2026 through 2032. With Silicon Strain Gauges sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Silicon Strain Gauges industry.

This Insight Report provides a comprehensive analysis of the global Silicon Strain Gauges landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon Strain Gauges portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Silicon Strain Gauges market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Strain Gauges and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon Strain Gauges.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Strain Gauges market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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Diffused Silicon Strain Gauge

Thin-film Silicon Strain Gauge

Bulk Silicon Strain Gauge

Segmentation by Package:

Bare Die Silicon Strain Gauge

Glass-frit Bonded Silicon Strain Gauge

Ceramic or Metal Packaged Silicon Strain Gauge

Segmentation by Measurement Direction:

Uniaxial Silicon Strain Gauge

Biaxial Silicon Strain Gauge

Multi-axis / Wheatstone Bridge Silicon Strain Gauge

Segmentation by Application:

Aerospace

Automotive

Construction

Medical

Scientific Research and Education

Others

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy

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Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

KYOWA

Omega

BCM

Piezo-Metrics

Kulite Semiconductor Products

TOP SENSOR TECH

HT Sensor

NMB

AVIC Zhonghang Electronic Measuring Instruments

Anhui Tianguang Sensor

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Haptica Sensing

HBM

GuangDong Micro Strain Sensing Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Strain Gauges market?

What factors are driving Silicon Strain Gauges market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon Strain Gauges market opportunities vary by end market size?

How does Silicon Strain Gauges break out by Type, by Application?

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