

Global Semiconductor Strain Gauges Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Strain Gauges market size is expected to reach \$ 60.22 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, the global production of semiconductor strain gauges reached 14.9 million units, with an average selling price of US\$2.5 per unit. The global annual production capacity for semiconductor strain gauges was approximately 25 million units, and the gross profit margin was about 30.1%. Semiconductor strain gauges are miniature sensors based on semiconductor materials such as silicon, silicon carbide, or other semiconductor crystals, designed to directly measure strain (deformation) and stress in materials or structures. They typically consist of a thin-film strain sensing element combined with a high-precision amplification circuit, and operate on the principle that electrical resistance changes in response to applied strain. The upstream sector of semiconductor strain gauges includes materials such as silicon, silicon carbide, and thin-film deposition and micromachining materials. The midstream sector consists of semiconductor strain gauge manufacturers, while the downstream sector primarily covers industries including aerospace, construction, and automotive.

The semiconductor strain gauge market is experiencing steady growth, driven by the demand for materials science, MEMS technology, and precise stress characterization. It is widely used in fields such as stress analysis of semiconductor devices, flexible electronics, aerospace, and structural health monitoring. The supply side is dominated by manufacturers in Europe, the US, and Japan, while domestic manufacturers are gradually narrowing the gap in terms of process maturity and production capacity. The core competitive advantages lie in sensitivity, linearity, temperature stability, packaging reliability and cost control, as well as tolerance to high-temperature and harsh

environments. With the development of new materials, thin-film strain measurement, quantum sensing, and large-scale sensor networks, the market is showing trends towards high integration, low power consumption, and miniaturization, with optimistic long-term growth prospects. However, it also faces challenges such as global supply chain fluctuations, technology standardization, and consistency in data interpretation.

This report studies the global Semiconductor Strain Gauges production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Strain Gauges 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 Semiconductor Strain Gauges that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Strain Gauges total production and demand, 2021-2032, (K Pcs)

Global Semiconductor Strain Gauges total production value, 2021-2032, (USD Million)

Global Semiconductor Strain Gauges production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Semiconductor Strain Gauges consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Semiconductor Strain Gauges domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Strain Gauges production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Semiconductor Strain Gauges production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Semiconductor Strain Gauges production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Semiconductor Strain Gauges 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 KYOWA, Omega, BCM, Piezo-Metrics, Kulite Semiconductor Products, TOP SENSOR TECH, HT Sensor, NMB, AVIC Zhonghang Electronic Measuring Instruments, Anhui Tianguang Sensor, 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 Semiconductor Strain Gauges market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 Semiconductor Strain Gauges Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Strain Gauges Market, Segmentation by Type:

Silicon-based

Germanium-based

Others

Global Semiconductor Strain Gauges Market, Segmentation by Structural Forms:

Thin Film Type

Bulk Silicon Type

Three-Dimensional Structure

Global Semiconductor Strain Gauges Market, Segmentation by Sensitivity Coefficient:

80-150

40-80

≤40

Global Semiconductor Strain Gauges Market, Segmentation by Application:

Aerospace

Automotive

Construction

Medical

Scientific Research and Education

Others

Companies Profiled:

KYOWA

Omega

BCM

Piezo-Metrics

Kulite Semiconductor Products

TOP SENSOR TECH

HT Sensor

NMB

AVIC Zhonghang Electronic Measuring Instruments

Anhui Tianguang Sensor

Haptica Sensing

HBM

GuangDong Micro Strain Sensing Technology

Key Questions Answered:

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

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