

# Global Strain Gage Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Strain Gage market size is expected to reach \$ 251 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

A strain gauge is a sensor used to measure the amount of deformation (strain) in a material or structure. It works by attaching a sensitive element (usually a metal foil, conductive carbon fabric, or thin film) to the surface of the object being measured. When the object undergoes minute deformation under external force, the geometry and resistance of the sensitive element change slightly. By measuring the change in resistance and combining it with the sensitivity coefficient (such as the gauge factor), the strain value can be calculated, thereby inferring stress, deformation distribution, or structural health. Strain gauges are widely used in materials research, structural health monitoring, mechanical testing, and engineering monitoring. The price of this product is \$669 per thousand pieces, with global sales of 267.65 million pieces. The industry's gross profit margin is around 30%. The upstream of the strain gauge industry chain includes nickel-chromium wire, constantan foil, and polyimide, the midstream consists of strain gauge manufacturers, and the downstream mainly includes general stress testing and the construction industry.

The strain gauge market is currently in a phase of steady expansion, driven by the continued demand for high-precision deformation measurement in fields such as structural health monitoring, aerospace, automotive, and civil engineering. With the development of technologies such as multi-channel data acquisition, wireless sensing, temperature compensation, and self-powered/thin-film flexible substrates, the market is evolving from traditional metal foil strain gauges towards thin-film, flexible substrate, full-bridge/half-bridge integrated, and intelligent sensing solutions. Simultaneously, the requirements for high reliability, ease of installation, long-term stability, and cost-

effectiveness are increasing, attracting competitors including global sensor giants as well as a large number of emerging domestic innovative companies. Application scenarios are wide-ranging and continue to expand in infrastructure, energy, manufacturing, and materials research.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Strain Gage 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 HBK (formerly HBM), Vishay (Micro-Measurements), MinebeaMitsumi, KYOWA, Omega, TML, BCM, ZEMIC, HUA LAN HAI, Guangzhou electrical measuring instruments factory, 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 Strain Gage market

### **Detailed Segmentation:**

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Strain Gage Market, Segmentation by Type:

Foil Type

Wire Type

Others

#### Global Strain Gage Market, Segmentation by Installation Method:

Adhesive Type

Embedded Type

Others

#### Global Strain Gage Market, Segmentation by Application Environment:

Normal Temperature Type

High Temperature Type

Others

#### Global Strain Gage Market, Segmentation by Application:

General Stress Measurement

Construction (Concrete and Mortar)

Composite Materials, Plastics and Rubber

High Temperature Measurement

Others

#### Companies Profiled:

HBK (formerly HBM)

Vishay (Micro-Measurements)

MinebeaMitsumi

KYOWA

Omega

TML

BCM

ZEMIC

HUA LAN HAI

Guangzhou electrical measuring instruments factory

LCT

ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY

**Key Questions Answered:**

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

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