

Global Foil Strain Gauge Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Foil Strain Gauge market size was valued at US\$ 792 million in 2024 and is forecast to a readjusted size of USD 1047 million by 2031 with a CAGR of 4.1% during review period.

Foil strain gauge is a sensor used to measure the relative change of material length (strain) due to the applied force. This deformation is recorded as compression or tension and is greatly affected by the elastic properties of the tested material. Positive strain refers to the elongation of mechanical parts, while negative strain refers to the compression of materials. Foil strain gauge is used to determine the value and direction of strain. This is achieved through a measurement grid, which is usually installed on the material surface to obtain the applied strain as the effect of resistance change on the nominal resistance and sensitivity factor of foil strain gauge. It records compression as a decrease in resistance and elongation as an increase.

A foil strain gauge is a sensor that is used to measure the relative change in the length (strain) of a material due to the applied force. This deformation is recorded as compression or tensile and is heavily influenced by the elastic properties of the material being tested. Positive strain refers to the elongation of mechanical components, while negative strain refers to the compression of the material. Foil strain gauges are used to determine the value and direction of the strain. This is achieved by means of a measurement grid that is usually mounted on the surface of the material to obtain the applied strain as the effect of the resistance change on the nominal resistance of the foil strain gauge and its sensitivity factor. It records compression as a decrease in resistance and elongation as an increase.

This report is a detailed and comprehensive analysis for global Foil Strain Gauge 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 Foil Strain Gauge market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Foil Strain Gauge market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Foil Strain Gauge market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Foil Strain Gauge market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Foil Strain Gauge
- 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 Foil Strain Gauge 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 Kyowa Electronic Instruments, Hudson Technologies, HBK, Tokyo Measuring Instruments Laboratory, BCM Sensor, Althen Sensors, Hamilton Precision Metals, ME-Systeme, ESI Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Foil Strain Gauge market is split by Type and by Application. For the period 2020-2031, 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

linear

Ring

Chain

Others

Market segment by Application

Residual Stress Measurement

Shear Strain Measurement

Torque Measurement

Stress Concentration Measurement

Others

Major players covered

Kyowa Electronic Instruments

Hudson Technologies

HBK

Tokyo Measuring Instruments Laboratory

BCM Sensor

Althen Sensors

Hamilton Precision Metals

ME-Systeme

ESI Technology

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 Foil Strain Gauge product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Foil Strain Gauge, with price, sales quantity, revenue, and global market share of Foil Strain Gauge from 2020 to 2025.

Chapter 3, the Foil Strain Gauge competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Foil Strain Gauge breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Foil Strain Gauge market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Foil Strain Gauge.

Chapter 14 and 15, to describe Foil Strain Gauge sales channel, distributors, customers, research findings and conclusion.

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