

Global Metallic Strain Gauge Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GFF7F8EECA13EN.html>

Date: June 2026

Pages: 132

Price: US\$ 4,480.00 (Single User License)

ID: GFF7F8EECA13EN

Abstracts

The global Metallic Strain Gauge market size is expected to reach \$ 248 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of metal-type strain gauges is projected to reach 261.73 million units, with an average selling price of \$684 per thousand units. The global annual production capacity for metal-type strain gauges stands at approximately 1.59 billion units, with a gross profit margin of approximately 32.31%. A metal-type strain gauge is a sensor that utilizes the piezoresistive effect of metallic materials to convert mechanical strain into electrical signals. Its core component is the metal sensing grid—typically fabricated from metal wire or foil—which is secured to a substrate using an adhesive. When strain occurs on the surface of the object under measurement, the metal sensing grid deforms accordingly, resulting in a change in its electrical resistance. This change is subsequently converted by a measurement circuit into a voltage or current output signal, thereby enabling the measurement of the applied strain. Upstream raw materials for metal-type strain gauges include nickel-chromium wire, constantan foil, polyimide, and similar materials. The midstream segment consists of the manufacturers of metal-type strain gauges, while the downstream market primarily encompasses sectors such as general stress measurement and construction.

As a traditional core component within the sensor industry, the market for metal-foil strain gauges has entered a phase of high maturity and steady growth. Demand for this product remains robust—and largely irreplaceable—across traditional application sectors such as structural health monitoring, industrial automation, aerospace structural testing, weighing systems, and pressure sensing. Manufacturing operations are primarily concentrated in the Asia-Pacific region; meanwhile, established enterprises in Japan (e.g., Tokyo Measuring Instruments Laboratory/TML), the United States (e.g., Vishay

Micro-Measurements), and Germany (e.g., HBM) continue to dominate the high-end market. Leveraging decades of accumulated expertise in process precision and high reliability, these legacy firms command significant pricing power?particularly within the fields of aerospace certification and precision measurement. Conversely, domestic Chinese manufacturers possess ample production capacity in the mid-to-low-end market and are gradually penetrating various general industrial applications through the upgrading of automated production lines and cost optimization initiatives. In terms of current market trends, user demand is evolving from standalone strain gauges toward integrated sensing modules and digital output solutions; concurrently, flexible thin-film strain technology is emerging as a source of differentiated competition against traditional metal-foil solutions in certain consumer and medical application scenarios. Furthermore, the persistent pursuit of long-term stability in extreme environments?such as those characterized by high temperatures or high radiation levels?continues to drive incremental innovation in the alloy materials and packaging processes utilized for metal-foil strain gauges.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

Global Metallic Strain Gauge production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Metallic Strain Gauge 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 Metallic Strain Gauge 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 Metallic Strain Gauge Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metallic Strain Gauge Market, Segmentation by Type:

Foil Type

Wire Type

Others

Global Metallic Strain Gauge Market, Segmentation by Sensing Gate Materials:

Constantan Alloy

Ni-Chromium Alloy

Others

Global Metallic Strain Gauge Market, Segmentation by Epoxy Materials:

Epoxy Materials

Polyimide Materials

Others

Global Metallic Strain Gauge Market, Segmentation by Sensing Gate Structures:

Single-Axial

Biaxial

Triaxial

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

Contents

1 SUPPLY SUMMARY

- 1.1 Metallic Strain Gauge Introduction
- 1.2 World Metallic Strain Gauge Supply & Forecast
 - 1.2.1 World Metallic Strain Gauge Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Metallic Strain Gauge Production (2021-2032)
 - 1.2.3 World Metallic Strain Gauge Pricing Trends (2021-2032)
- 1.3 World Metallic Strain Gauge Production by Region (Based on Production Site)
 - 1.3.1 World Metallic Strain Gauge Production Value by Region (2021-2032)
 - 1.3.2 World Metallic Strain Gauge Production by Region (2021-2032)
 - 1.3.3 World Metallic Strain Gauge Average Price by Region (2021-2032)
 - 1.3.4 North America Metallic Strain Gauge Production (2021-2032)
 - 1.3.5 Europe Metallic Strain Gauge Production (2021-2032)
 - 1.3.6 China Metallic Strain Gauge Production (2021-2032)
 - 1.3.7 Japan Metallic Strain Gauge Production (2021-2032)
 - 1.3.8 South Korea Metallic Strain Gauge Production (2021-2032)
 - 1.3.9 Southeast Asia Metallic Strain Gauge Production (2021-2032)
 - 1.3.10 China Taiwan Metallic Strain Gauge Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Metallic Strain Gauge Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Metallic Strain Gauge Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Metallic Strain Gauge Demand (2021-2032)
- 2.2 World Metallic Strain Gauge Consumption by Region
 - 2.2.1 World Metallic Strain Gauge Consumption by Region (2021-2026)
 - 2.2.2 World Metallic Strain Gauge Consumption Forecast by Region (2027-2032)
- 2.3 United States Metallic Strain Gauge Consumption (2021-2032)
- 2.4 China Metallic Strain Gauge Consumption (2021-2032)
- 2.5 Europe Metallic Strain Gauge Consumption (2021-2032)
- 2.6 Japan Metallic Strain Gauge Consumption (2021-2032)
- 2.7 South Korea Metallic Strain Gauge Consumption (2021-2032)
- 2.8 ASEAN Metallic Strain Gauge Consumption (2021-2032)
- 2.9 India Metallic Strain Gauge Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Metallic Strain Gauge Production Value by Manufacturer (2021-2026)
- 3.2 World Metallic Strain Gauge Production by Manufacturer (2021-2026)
- 3.3 World Metallic Strain Gauge Average Price by Manufacturer (2021-2026)
- 3.4 Metallic Strain Gauge Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Metallic Strain Gauge Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Metallic Strain Gauge in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Metallic Strain Gauge in 2025
- 3.6 Metallic Strain Gauge Market: Overall Company Footprint Analysis
 - 3.6.1 Metallic Strain Gauge Market: Region Footprint
 - 3.6.2 Metallic Strain Gauge Market: Company Product Type Footprint
 - 3.6.3 Metallic Strain Gauge Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Metallic Strain Gauge Production Value Comparison
 - 4.1.1 United States VS China: Metallic Strain Gauge Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Metallic Strain Gauge Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Metallic Strain Gauge Production Comparison
 - 4.2.1 United States VS China: Metallic Strain Gauge Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Metallic Strain Gauge Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Metallic Strain Gauge Consumption Comparison
 - 4.3.1 United States VS China: Metallic Strain Gauge Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Metallic Strain Gauge Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Metallic Strain Gauge Manufacturers and Market Share,

2021-2026

4.4.1 United States Based Metallic Strain Gauge Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Metallic Strain Gauge Production Value (2021-2026)

4.4.3 United States Based Manufacturers Metallic Strain Gauge Production (2021-2026)

4.5 China Based Metallic Strain Gauge Manufacturers and Market Share

4.5.1 China Based Metallic Strain Gauge Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Metallic Strain Gauge Production Value (2021-2026)

4.5.3 China Based Manufacturers Metallic Strain Gauge Production (2021-2026)

4.6 Rest of World Based Metallic Strain Gauge Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Metallic Strain Gauge Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Metallic Strain Gauge Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Metallic Strain Gauge Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Metallic Strain Gauge Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Foil Type

5.2.2 Wire Type

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Metallic Strain Gauge Production by Type (2021-2032)

5.3.2 World Metallic Strain Gauge Production Value by Type (2021-2032)

5.3.3 World Metallic Strain Gauge Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SENSING GATE MATERIALS

6.1 World Metallic Strain Gauge Market Size Overview by Sensing Gate Materials: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Sensing Gate Materials

6.2.1 Constantan Alloy

6.2.2 Ni-Chromium Alloy

6.2.3 Others

6.3 Market Segment by Sensing Gate Materials

6.3.1 World Metallic Strain Gauge Production by Sensing Gate Materials (2021-2032)

6.3.2 World Metallic Strain Gauge Production Value by Sensing Gate Materials (2021-2032)

6.3.3 World Metallic Strain Gauge Average Price by Sensing Gate Materials (2021-2032)

7 MARKET ANALYSIS BY EPOXY MATERIALS

7.1 World Metallic Strain Gauge Market Size Overview by Epoxy Materials: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Epoxy Materials

7.2.1 Epoxy Materials

7.2.2 Polyimide Materials

7.2.3 Others

7.3 Market Segment by Epoxy Materials

7.3.1 World Metallic Strain Gauge Production by Epoxy Materials (2021-2032)

7.3.2 World Metallic Strain Gauge Production Value by Epoxy Materials (2021-2032)

7.3.3 World Metallic Strain Gauge Average Price by Epoxy Materials (2021-2032)

8 MARKET ANALYSIS BY SENSING GATE STRUCTURES

8.1 World Metallic Strain Gauge Market Size Overview by Sensing Gate Structures: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Sensing Gate Structures

8.2.1 Single-Axial

8.2.2 Biaxial

8.2.3 Triaxial

8.3 Market Segment by Sensing Gate Structures

8.3.1 World Metallic Strain Gauge Production by Sensing Gate Structures (2021-2032)

8.3.2 World Metallic Strain Gauge Production Value by Sensing Gate Structures (2021-2032)

8.3.3 World Metallic Strain Gauge Average Price by Sensing Gate Structures (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Metallic Strain Gauge Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 General Stress Measurement

9.2.2 Construction (Concrete and Mortar)

9.2.3 Composite Materials, Plastics and Rubber

9.2.4 High Temperature Measurement

9.2.5 Others

9.3 Market Segment by Application

9.3.1 World Metallic Strain Gauge Production by Application (2021-2032)

9.3.2 World Metallic Strain Gauge Production Value by Application (2021-2032)

9.3.3 World Metallic Strain Gauge Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 HBK (formerly HBM)

10.1.1 HBK (formerly HBM) Details

10.1.2 HBK (formerly HBM) Major Business

10.1.3 HBK (formerly HBM) Metallic Strain Gauge Product and Services

10.1.4 HBK (formerly HBM) Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 HBK (formerly HBM) Recent Developments/Updates

10.1.6 HBK (formerly HBM) Competitive Strengths & Weaknesses

10.2 Vishay (Micro-Measurements)

10.2.1 Vishay (Micro-Measurements) Details

10.2.2 Vishay (Micro-Measurements) Major Business

10.2.3 Vishay (Micro-Measurements) Metallic Strain Gauge Product and Services

10.2.4 Vishay (Micro-Measurements) Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Vishay (Micro-Measurements) Recent Developments/Updates

10.2.6 Vishay (Micro-Measurements) Competitive Strengths & Weaknesses

10.3 MinebeaMitsumi

10.3.1 MinebeaMitsumi Details

10.3.2 MinebeaMitsumi Major Business

10.3.3 MinebeaMitsumi Metallic Strain Gauge Product and Services

10.3.4 MinebeaMitsumi Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 MinebeaMitsumi Recent Developments/Updates

10.3.6 MinebeaMitsumi Competitive Strengths & Weaknesses

10.4 KYOWA

10.4.1 KYOWA Details

- 10.4.2 KYOWA Major Business
- 10.4.3 KYOWA Metallic Strain Gauge Product and Services
- 10.4.4 KYOWA Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.4.5 KYOWA Recent Developments/Updates
- 10.4.6 KYOWA Competitive Strengths & Weaknesses
- 10.5 Omega
 - 10.5.1 Omega Details
 - 10.5.2 Omega Major Business
 - 10.5.3 Omega Metallic Strain Gauge Product and Services
 - 10.5.4 Omega Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Omega Recent Developments/Updates
 - 10.5.6 Omega Competitive Strengths & Weaknesses
- 10.6 TML
 - 10.6.1 TML Details
 - 10.6.2 TML Major Business
 - 10.6.3 TML Metallic Strain Gauge Product and Services
 - 10.6.4 TML Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 TML Recent Developments/Updates
 - 10.6.6 TML Competitive Strengths & Weaknesses
- 10.7 BCM
 - 10.7.1 BCM Details
 - 10.7.2 BCM Major Business
 - 10.7.3 BCM Metallic Strain Gauge Product and Services
 - 10.7.4 BCM Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 BCM Recent Developments/Updates
 - 10.7.6 BCM Competitive Strengths & Weaknesses
- 10.8 ZEMIC
 - 10.8.1 ZEMIC Details
 - 10.8.2 ZEMIC Major Business
 - 10.8.3 ZEMIC Metallic Strain Gauge Product and Services
 - 10.8.4 ZEMIC Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 ZEMIC Recent Developments/Updates
 - 10.8.6 ZEMIC Competitive Strengths & Weaknesses
- 10.9 HUA LAN HAI

- 10.9.1 HUA LAN HAI Details
- 10.9.2 HUA LAN HAI Major Business
- 10.9.3 HUA LAN HAI Metallic Strain Gauge Product and Services
- 10.9.4 HUA LAN HAI Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 HUA LAN HAI Recent Developments/Updates
- 10.9.6 HUA LAN HAI Competitive Strengths & Weaknesses
- 10.10 Guangzhou electrical measuring instruments factory
- 10.10.1 Guangzhou electrical measuring instruments factory Details
- 10.10.2 Guangzhou electrical measuring instruments factory Major Business
- 10.10.3 Guangzhou electrical measuring instruments factory Metallic Strain Gauge Product and Services
- 10.10.4 Guangzhou electrical measuring instruments factory Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.10.5 Guangzhou electrical measuring instruments factory Recent Developments/Updates
- 10.10.6 Guangzhou electrical measuring instruments factory Competitive Strengths & Weaknesses
- 10.11 LCT
- 10.11.1 LCT Details
- 10.11.2 LCT Major Business
- 10.11.3 LCT Metallic Strain Gauge Product and Services
- 10.11.4 LCT Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.11.5 LCT Recent Developments/Updates
- 10.11.6 LCT Competitive Strengths & Weaknesses
- 10.12 ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY
- 10.12.1 ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Details
- 10.12.2 ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Major Business
- 10.12.3 ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Metallic Strain Gauge Product and Services
- 10.12.4 ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Metallic Strain Gauge Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.12.5 ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Recent Developments/Updates
- 10.12.6 ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Metallic Strain Gauge Industry Chain
- 11.2 Metallic Strain Gauge Upstream Analysis
 - 11.2.1 Metallic Strain Gauge Core Raw Materials
 - 11.2.2 Main Manufacturers of Metallic Strain Gauge Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Metallic Strain Gauge Production Mode
- 11.6 Metallic Strain Gauge Procurement Model
- 11.7 Metallic Strain Gauge Industry Sales Model and Sales Channels
 - 11.7.1 Metallic Strain Gauge Sales Model
 - 11.7.2 Metallic Strain Gauge Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Metallic Strain Gauge Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Metallic Strain Gauge Production Value by Region (2021-2026) & (USD Million)

Table 3. World Metallic Strain Gauge Production Value by Region (2027-2032) & (USD Million)

Table 4. World Metallic Strain Gauge Production Value Market Share by Region (2021-2026)

Table 5. World Metallic Strain Gauge Production Value Market Share by Region (2027-2032)

Table 6. World Metallic Strain Gauge Production by Region (2021-2026) & (K Pcs)

Table 7. World Metallic Strain Gauge Production by Region (2027-2032) & (K Pcs)

Table 8. World Metallic Strain Gauge Production Market Share by Region (2021-2026)

Table 9. World Metallic Strain Gauge Production Market Share by Region (2027-2032)

Table 10. World Metallic Strain Gauge Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World Metallic Strain Gauge Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. Metallic Strain Gauge Major Market Trends

Table 13. World Metallic Strain Gauge Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World Metallic Strain Gauge Consumption by Region (2021-2026) & (K Pcs)

Table 15. World Metallic Strain Gauge Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World Metallic Strain Gauge Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Metallic Strain Gauge Producers in 2025

Table 18. World Metallic Strain Gauge Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Metallic Strain Gauge Producers in 2025

Table 20. World Metallic Strain Gauge Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 21. Global Metallic Strain Gauge Company Evaluation Quadrant

Table 22. World Metallic Strain Gauge Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Metallic Strain Gauge Production Site of Key Manufacturer

Table 24. Metallic Strain Gauge Market: Company Product Type Footprint

Table 25. Metallic Strain Gauge Market: Company Product Application Footprint

Table 26. Metallic Strain Gauge Competitive Factors

Table 27. Metallic Strain Gauge New Entrant and Capacity Expansion Plans

Table 28. Metallic Strain Gauge Mergers & Acquisitions Activity

Table 29. United States VS China Metallic Strain Gauge Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Metallic Strain Gauge Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Metallic Strain Gauge Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Metallic Strain Gauge Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Metallic Strain Gauge Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Metallic Strain Gauge Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Metallic Strain Gauge Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Metallic Strain Gauge Production Market Share (2021-2026)

Table 37. China Based Metallic Strain Gauge Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Metallic Strain Gauge Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Metallic Strain Gauge Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Metallic Strain Gauge Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Metallic Strain Gauge Production Market Share (2021-2026)

Table 42. Rest of World Based Metallic Strain Gauge Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Metallic Strain Gauge Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Metallic Strain Gauge Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Metallic Strain Gauge Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Metallic Strain Gauge Production Market Share (2021-2026)

Table 47. World Metallic Strain Gauge Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Metallic Strain Gauge Production by Type (2021-2026) & (K Pcs)

Table 49. World Metallic Strain Gauge Production by Type (2027-2032) & (K Pcs)

Table 50. World Metallic Strain Gauge Production Value by Type (2021-2026) & (USD Million)

Table 51. World Metallic Strain Gauge Production Value by Type (2027-2032) & (USD Million)

Table 52. World Metallic Strain Gauge Average Price by Type (2021-2026) & (US\$/Pcs)

Table 53. World Metallic Strain Gauge Average Price by Type (2027-2032) & (US\$/Pcs)

Table 54. World Metallic Strain Gauge Production Value by Sensing Gate Materials, (USD Million), 2021 & 2025 & 2032

Table 55. World Metallic Strain Gauge Production by Sensing Gate Materials (2021-2026) & (K Pcs)

Table 56. World Metallic Strain Gauge Production by Sensing Gate Materials (2027-2032) & (K Pcs)

Table 57. World Metallic Strain Gauge Production Value by Sensing Gate Materials (2021-2026) & (USD Million)

Table 58. World Metallic Strain Gauge Production Value by Sensing Gate Materials (2027-2032) & (USD Million)

Table 59. World Metallic Strain Gauge Average Price by Sensing Gate Materials (2021-2026) & (US\$/Pcs)

Table 60. World Metallic Strain Gauge Average Price by Sensing Gate Materials (2027-2032) & (US\$/Pcs)

Table 61. World Metallic Strain Gauge Production Value by Epoxy Materials, (USD Million), 2021 & 2025 & 2032

Table 62. World Metallic Strain Gauge Production by Epoxy Materials (2021-2026) & (K Pcs)

Table 63. World Metallic Strain Gauge Production by Epoxy Materials (2027-2032) & (K Pcs)

Table 64. World Metallic Strain Gauge Production Value by Epoxy Materials (2021-2026) & (USD Million)

Table 65. World Metallic Strain Gauge Production Value by Epoxy Materials (2027-2032) & (USD Million)

Table 66. World Metallic Strain Gauge Average Price by Epoxy Materials (2021-2026) &

(US\$/Pcs)

Table 67. World Metallic Strain Gauge Average Price by Epoxy Materials (2027-2032) & (US\$/Pcs)

Table 68. World Metallic Strain Gauge Production Value by Sensing Gate Structures, (USD Million), 2021 & 2025 & 2032

Table 69. World Metallic Strain Gauge Production by Sensing Gate Structures (2021-2026) & (K Pcs)

Table 70. World Metallic Strain Gauge Production by Sensing Gate Structures (2027-2032) & (K Pcs)

Table 71. World Metallic Strain Gauge Production Value by Sensing Gate Structures (2021-2026) & (USD Million)

Table 72. World Metallic Strain Gauge Production Value by Sensing Gate Structures (2027-2032) & (USD Million)

Table 73. World Metallic Strain Gauge Average Price by Sensing Gate Structures (2021-2026) & (US\$/Pcs)

Table 74. World Metallic Strain Gauge Average Price by Sensing Gate Structures (2027-2032) & (US\$/Pcs)

Table 75. World Metallic Strain Gauge Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Metallic Strain Gauge Production by Application (2021-2026) & (K Pcs)

Table 77. World Metallic Strain Gauge Production by Application (2027-2032) & (K Pcs)

Table 78. World Metallic Strain Gauge Production Value by Application (2021-2026) & (USD Million)

Table 79. World Metallic Strain Gauge Production Value by Application (2027-2032) & (USD Million)

Table 80. World Metallic Strain Gauge Average Price by Application (2021-2026) & (US\$/Pcs)

Table 81. World Metallic Strain Gauge Average Price by Application (2027-2032) & (US\$/Pcs)

Table 82. HBK (formerly HBM) Basic Information, Manufacturing Base and Competitors

Table 83. HBK (formerly HBM) Major Business

Table 84. HBK (formerly HBM) Metallic Strain Gauge Product and Services

Table 85. HBK (formerly HBM) Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. HBK (formerly HBM) Recent Developments/Updates

Table 87. HBK (formerly HBM) Competitive Strengths & Weaknesses

Table 88. Vishay (Micro-Measurements) Basic Information, Manufacturing Base and Competitors

Table 89. Vishay (Micro-Measurements) Major Business
Table 90. Vishay (Micro-Measurements) Metallic Strain Gauge Product and Services
Table 91. Vishay (Micro-Measurements) Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. Vishay (Micro-Measurements) Recent Developments/Updates
Table 93. Vishay (Micro-Measurements) Competitive Strengths & Weaknesses
Table 94. MinebeaMitsumi Basic Information, Manufacturing Base and Competitors
Table 95. MinebeaMitsumi Major Business
Table 96. MinebeaMitsumi Metallic Strain Gauge Product and Services
Table 97. MinebeaMitsumi Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. MinebeaMitsumi Recent Developments/Updates
Table 99. MinebeaMitsumi Competitive Strengths & Weaknesses
Table 100. KYOWA Basic Information, Manufacturing Base and Competitors
Table 101. KYOWA Major Business
Table 102. KYOWA Metallic Strain Gauge Product and Services
Table 103. KYOWA Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. KYOWA Recent Developments/Updates
Table 105. KYOWA Competitive Strengths & Weaknesses
Table 106. Omega Basic Information, Manufacturing Base and Competitors
Table 107. Omega Major Business
Table 108. Omega Metallic Strain Gauge Product and Services
Table 109. Omega Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Omega Recent Developments/Updates
Table 111. Omega Competitive Strengths & Weaknesses
Table 112. TML Basic Information, Manufacturing Base and Competitors
Table 113. TML Major Business
Table 114. TML Metallic Strain Gauge Product and Services
Table 115. TML Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. TML Recent Developments/Updates
Table 117. TML Competitive Strengths & Weaknesses
Table 118. BCM Basic Information, Manufacturing Base and Competitors
Table 119. BCM Major Business
Table 120. BCM Metallic Strain Gauge Product and Services
Table 121. BCM Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production

Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. BCM Recent Developments/Updates

Table 123. BCM Competitive Strengths & Weaknesses

Table 124. ZEMIC Basic Information, Manufacturing Base and Competitors

Table 125. ZEMIC Major Business

Table 126. ZEMIC Metallic Strain Gauge Product and Services

Table 127. ZEMIC Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. ZEMIC Recent Developments/Updates

Table 129. ZEMIC Competitive Strengths & Weaknesses

Table 130. HUA LAN HAI Basic Information, Manufacturing Base and Competitors

Table 131. HUA LAN HAI Major Business

Table 132. HUA LAN HAI Metallic Strain Gauge Product and Services

Table 133. HUA LAN HAI Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. HUA LAN HAI Recent Developments/Updates

Table 135. HUA LAN HAI Competitive Strengths & Weaknesses

Table 136. Guangzhou electrical measuring instruments factory Basic Information,
Manufacturing Base and Competitors

Table 137. Guangzhou electrical measuring instruments factory Major Business

Table 138. Guangzhou electrical measuring instruments factory Metallic Strain Gauge
Product and Services

Table 139. Guangzhou electrical measuring instruments factory Metallic Strain Gauge
Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and
Market Share (2021-2026)

Table 140. Guangzhou electrical measuring instruments factory Recent
Developments/Updates

Table 141. Guangzhou electrical measuring instruments factory Competitive Strengths
& Weaknesses

Table 142. LCT Basic Information, Manufacturing Base and Competitors

Table 143. LCT Major Business

Table 144. LCT Metallic Strain Gauge Product and Services

Table 145. LCT Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production
Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. LCT Recent Developments/Updates

Table 147. LCT Competitive Strengths & Weaknesses

Table 148. ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Basic
Information, Manufacturing Base and Competitors

Table 149. ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Major

Business

Table 150. ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Metallic Strain Gauge Product and Services

Table 151. ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Metallic Strain Gauge Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Recent Developments/Updates

Table 153. ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY Competitive Strengths & Weaknesses

Table 154. Global Key Players of Metallic Strain Gauge Upstream (Raw Materials)

Table 155. Global Metallic Strain Gauge Typical Customers

Table 156. Metallic Strain Gauge Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Metallic Strain Gauge Picture

Figure 2. World Metallic Strain Gauge Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Metallic Strain Gauge Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 5. World Metallic Strain Gauge Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World Metallic Strain Gauge Production Value Market Share by Region (2021-2032)

Figure 7. World Metallic Strain Gauge Production Market Share by Region (2021-2032)

Figure 8. North America Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 9. Europe Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 10. China Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 11. Japan Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 12. South Korea Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 13. Southeast Asia Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 14. China Taiwan Metallic Strain Gauge Production (2021-2032) & (K Pcs)

Figure 15. Metallic Strain Gauge Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 18. World Metallic Strain Gauge Consumption Market Share by Region (2021-2032)

Figure 19. United States Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 20. China Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 21. Europe Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 22. Japan Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 23. South Korea Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 24. ASEAN Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 25. India Metallic Strain Gauge Consumption (2021-2032) & (K Pcs)

Figure 26. Producer Shipments of Metallic Strain Gauge by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Metallic Strain Gauge Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Metallic Strain Gauge Markets in 2025

Figure 29. United States VS China: Metallic Strain Gauge Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Metallic Strain Gauge Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Metallic Strain Gauge Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Metallic Strain Gauge Production Market Share 2025

Figure 33. China Based Manufacturers Metallic Strain Gauge Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Metallic Strain Gauge Production Market Share 2025

Figure 35. World Metallic Strain Gauge Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Metallic Strain Gauge Production Value Market Share by Type in 2025

Figure 37. Foil Type

Figure 38. Wire Type

Figure 39. Others

Figure 40. World Metallic Strain Gauge Production Market Share by Type (2021-2032)

Figure 41. World Metallic Strain Gauge Production Value Market Share by Type (2021-2032)

Figure 42. World Metallic Strain Gauge Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 43. World Metallic Strain Gauge Production Value by Sensing Gate Materials, (USD Million), 2021 & 2025 & 2032

Figure 44. World Metallic Strain Gauge Production Value Market Share by Sensing Gate Materials in 2025

Figure 45. Constantan Alloy

Figure 46. Ni-Chromium Alloy

Figure 47. Others

Figure 48. World Metallic Strain Gauge Production Market Share by Sensing Gate Materials (2021-2032)

Figure 49. World Metallic Strain Gauge Production Value Market Share by Sensing Gate Materials (2021-2032)

Figure 50. World Metallic Strain Gauge Average Price by Sensing Gate Materials (2021-2032) & (US\$/Pcs)

Figure 51. World Metallic Strain Gauge Production Value by Epoxy Materials, (USD Million), 2021 & 2025 & 2032

Figure 52. World Metallic Strain Gauge Production Value Market Share by Epoxy

Materials in 2025

Figure 53. Epoxy Materials

Figure 54. Polyimide Materials

Figure 55. Others

Figure 56. World Metallic Strain Gauge Production Market Share by Epoxy Materials (2021-2032)

Figure 57. World Metallic Strain Gauge Production Value Market Share by Epoxy Materials (2021-2032)

Figure 58. World Metallic Strain Gauge Average Price by Epoxy Materials (2021-2032) & (US\$/Pcs)

Figure 59. World Metallic Strain Gauge Production Value by Sensing Gate Structures, (USD Million), 2021 & 2025 & 2032

Figure 60. World Metallic Strain Gauge Production Value Market Share by Sensing Gate Structures in 2025

Figure 61. Single-Axial

Figure 62. Biaxial

Figure 63. Triaxial

Figure 64. World Metallic Strain Gauge Production Market Share by Sensing Gate Structures (2021-2032)

Figure 65. World Metallic Strain Gauge Production Value Market Share by Sensing Gate Structures (2021-2032)

Figure 66. World Metallic Strain Gauge Average Price by Sensing Gate Structures (2021-2032) & (US\$/Pcs)

Figure 67. World Metallic Strain Gauge Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 68. World Metallic Strain Gauge Production Value Market Share by Application in 2025

Figure 69. General Stress Measurement

Figure 70. Construction (Concrete and Mortar)

Figure 71. Composite Materials, Plastics and Rubber

Figure 72. High Temperature Measurement

Figure 73. Others

Figure 74. World Metallic Strain Gauge Production Market Share by Application (2021-2032)

Figure 75. World Metallic Strain Gauge Production Value Market Share by Application (2021-2032)

Figure 76. World Metallic Strain Gauge Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 77. Metallic Strain Gauge Industry Chain

Figure 78. Metallic Strain Gauge Procurement Model

Figure 79. Metallic Strain Gauge Sales Model

Figure 80. Metallic Strain Gauge Sales Channels, Direct Sales, and Distribution

Figure 81. Methodology

Figure 82. Research Process and Data Source

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