

Global MEG Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MEG Sensor market size is expected to reach \$ 3270 million by 2032, rising at a market growth of 27.9% CAGR during the forecast period (2026-2032).

MEG (Magnetoencephalography) sensors are ultra-sensitive magnetic field detectors used in MEG systems to non-invasively measure the magnetic fields generated by electrical currents in the brain. These fields are extremely weak — about a billion times smaller than Earth’s magnetic field — so the sensors must be able to detect signals in the femto-tesla range (10^{-15} T). MEG sensors are typically part of a whole-head array that encloses the subject’s head and captures brain activity with millisecond temporal resolution and good spatial precision. In 2025, global MEG system production reached approximately 225 units, with an average global market price of around US\$ 2.5 M per unit. Annual production capacity is 250 Units. Gross Profit Margin: 32.88%. The MEG system industry chain covers upstream materials, core components, system integration, and downstream applications. Upstream, critical materials include superconducting metals, alkali vapors, lasers, and cryogenic equipment. Core components involve SQUID or OPM sensors, magnetic shielding, and high-speed data acquisition electronics. System integrators assemble these components into clinical or research-ready MEG systems, which are then applied in hospitals, neuroscience labs, and brain-computer interface research. Maintenance, calibration, and software support also form part of the downstream chain. MEG systems represent a high-value niche in neuroimaging, with barriers to entry that protect established manufacturers. While SQUID-based systems dominate the market, OPM technology promises more flexible, wearable, and cost-efficient solutions. The field is poised for growth as demand expands in clinical neurology, cognitive research, and BCI applications, but adoption depends on reducing system cost, infrastructure complexity, and improving portability.

This report studies the global MEG Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global MEG Sensor total production and demand, 2021-2032, (Units)

Global MEG Sensor total production value, 2021-2032, (USD Million)

Global MEG Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global MEG Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: MEG Sensor domestic production, consumption, key domestic manufacturers and share

Global MEG Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global MEG Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global MEG Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global MEG Sensor 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 Elekta, MEGIN, Compumedics Neuroscan, Yokogawa Electric Corporation, Ricoh Company, Cerca Magnetics, FieldLine, Tristan Technologies, QuSpin, Twinleaf, 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 MEG Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) 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 MEG Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEG Sensor Market, Segmentation by Type:

Low-Tc SQUID MEG Sensors

Magnetometer SQUID Sensors

Axial Gradiometer SQUID Sensors

Planar Gradiometer SQUID Sensors

Global MEG Sensor Market, Segmentation by OPM:

Alkali-vapor OPM MEG Sensors

Spin-exchange Relaxation-Free (SERF) OPM Sensors

Wearable OPM MEG Sensors

Global MEG Sensor Market, Segmentation by Application:

Clinical Healthcare

Neuroscience Research

Neurological Disorders Research

BCI & Human–Machine Interaction

Pharmaceutical & Life Sciences

Education & Frontier Research

Companies Profiled:

Elekta

MEGIN

Compumedics Neuroscan

Yokogawa Electric Corporation

Ricoh Company

Cerca Magnetics

FieldLine

Tristan Technologies

QuSpin

Twinleaf

Mag4Health

Neurosoft

CTF MEG International

Brain Products

Advanced Brain Monitoring

SQUID Technology

Kawasaki Heavy Industries

Hitachi High Tech

Applied Physics Systems

CroMag Systems

Key Questions Answered:

1. How big is the global MEG Sensor market?
2. What is the demand of the global MEG Sensor market?
3. What is the year over year growth of the global MEG Sensor market?
4. What is the production and production value of the global MEG Sensor market?
5. Who are the key producers in the global MEG Sensor market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World MEG Sensor Production Value by Manufacturer (2021-2026)
- 3.2 World MEG Sensor Production by Manufacturer (2021-2026)
- 3.3 World MEG Sensor Average Price by Manufacturer (2021-2026)
- 3.4 MEG Sensor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global MEG Sensor Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for MEG Sensor in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for MEG Sensor in 2025
- 3.6 MEG Sensor Market: Overall Company Footprint Analysis
 - 3.6.1 MEG Sensor Market: Region Footprint
 - 3.6.2 MEG Sensor Market: Company Product Type Footprint
 - 3.6.3 MEG Sensor 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: MEG Sensor Production Value Comparison
 - 4.1.1 United States VS China: MEG Sensor Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: MEG Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: MEG Sensor Production Comparison
 - 4.2.1 United States VS China: MEG Sensor Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: MEG Sensor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: MEG Sensor Consumption Comparison
 - 4.3.1 United States VS China: MEG Sensor Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: MEG Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based MEG Sensor Manufacturers and Market Share, 2021-2026

- 4.4.1 United States Based MEG Sensor Manufacturers, Headquarters and Production Site (States, Country)
- 4.4.2 United States Based Manufacturers MEG Sensor Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers MEG Sensor Production (2021-2026)
- 4.5 China Based MEG Sensor Manufacturers and Market Share
 - 4.5.1 China Based MEG Sensor Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers MEG Sensor Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers MEG Sensor Production (2021-2026)
- 4.6 Rest of World Based MEG Sensor Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based MEG Sensor Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers MEG Sensor Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers MEG Sensor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World MEG Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Low-Tc SQUID MEG Sensors
 - 5.2.2 Magnetometer SQUID Sensors
 - 5.2.3 Axial Gradiometer SQUID Sensors
 - 5.2.4 Planar Gradiometer SQUID Sensors
- 5.3 Market Segment by Type
 - 5.3.1 World MEG Sensor Production by Type (2021-2032)
 - 5.3.2 World MEG Sensor Production Value by Type (2021-2032)
 - 5.3.3 World MEG Sensor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OPM

- 6.1 World MEG Sensor Market Size Overview by OPM: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by OPM
 - 6.2.1 Alkali-vapor OPM MEG Sensors
 - 6.2.2 Spin-exchange Relaxation-Free (SERF) OPM Sensors
 - 6.2.3 Wearable OPM MEG Sensors
- 6.3 Market Segment by OPM
 - 6.3.1 World MEG Sensor Production by OPM (2021-2032)
 - 6.3.2 World MEG Sensor Production Value by OPM (2021-2032)
 - 6.3.3 World MEG Sensor Average Price by OPM (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World MEG Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Clinical Healthcare

7.2.2 Neuroscience Research

7.2.3 Neurological Disorders Research

7.2.4 BCI & Human–Machine Interaction

7.2.5 Pharmaceutical & Life Sciences

7.2.6 Education & Frontier Research

7.3 Market Segment by Application

7.3.1 World MEG Sensor Production by Application (2021-2032)

7.3.2 World MEG Sensor Production Value by Application (2021-2032)

7.3.3 World MEG Sensor Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Elekta

8.1.1 Elekta Details

8.1.2 Elekta Major Business

8.1.3 Elekta MEG Sensor Product and Services

8.1.4 Elekta MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Elekta Recent Developments/Updates

8.1.6 Elekta Competitive Strengths & Weaknesses

8.2 MEGIN

8.2.1 MEGIN Details

8.2.2 MEGIN Major Business

8.2.3 MEGIN MEG Sensor Product and Services

8.2.4 MEGIN MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 MEGIN Recent Developments/Updates

8.2.6 MEGIN Competitive Strengths & Weaknesses

8.3 Compumedics Neuroscan

8.3.1 Compumedics Neuroscan Details

8.3.2 Compumedics Neuroscan Major Business

8.3.3 Compumedics Neuroscan MEG Sensor Product and Services

8.3.4 Compumedics Neuroscan MEG Sensor Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.3.5 Compumedics Neuroscan Recent Developments/Updates

8.3.6 Compumedics Neuroscan Competitive Strengths & Weaknesses

8.4 Yokogawa Electric Corporation

8.4.1 Yokogawa Electric Corporation Details

8.4.2 Yokogawa Electric Corporation Major Business

8.4.3 Yokogawa Electric Corporation MEG Sensor Product and Services

8.4.4 Yokogawa Electric Corporation MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Yokogawa Electric Corporation Recent Developments/Updates

8.4.6 Yokogawa Electric Corporation Competitive Strengths & Weaknesses

8.5 Ricoh Company

8.5.1 Ricoh Company Details

8.5.2 Ricoh Company Major Business

8.5.3 Ricoh Company MEG Sensor Product and Services

8.5.4 Ricoh Company MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Ricoh Company Recent Developments/Updates

8.5.6 Ricoh Company Competitive Strengths & Weaknesses

8.6 Cerca Magnetics

8.6.1 Cerca Magnetics Details

8.6.2 Cerca Magnetics Major Business

8.6.3 Cerca Magnetics MEG Sensor Product and Services

8.6.4 Cerca Magnetics MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Cerca Magnetics Recent Developments/Updates

8.6.6 Cerca Magnetics Competitive Strengths & Weaknesses

8.7 FieldLine

8.7.1 FieldLine Details

8.7.2 FieldLine Major Business

8.7.3 FieldLine MEG Sensor Product and Services

8.7.4 FieldLine MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 FieldLine Recent Developments/Updates

8.7.6 FieldLine Competitive Strengths & Weaknesses

8.8 Tristan Technologies

8.8.1 Tristan Technologies Details

8.8.2 Tristan Technologies Major Business

8.8.3 Tristan Technologies MEG Sensor Product and Services

8.8.4 Tristan Technologies MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Tristan Technologies Recent Developments/Updates

8.8.6 Tristan Technologies Competitive Strengths & Weaknesses

8.9 QuSpin

8.9.1 QuSpin Details

8.9.2 QuSpin Major Business

8.9.3 QuSpin MEG Sensor Product and Services

8.9.4 QuSpin MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 QuSpin Recent Developments/Updates

8.9.6 QuSpin Competitive Strengths & Weaknesses

8.10 Twinleaf

8.10.1 Twinleaf Details

8.10.2 Twinleaf Major Business

8.10.3 Twinleaf MEG Sensor Product and Services

8.10.4 Twinleaf MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Twinleaf Recent Developments/Updates

8.10.6 Twinleaf Competitive Strengths & Weaknesses

8.11 Mag4Health

8.11.1 Mag4Health Details

8.11.2 Mag4Health Major Business

8.11.3 Mag4Health MEG Sensor Product and Services

8.11.4 Mag4Health MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Mag4Health Recent Developments/Updates

8.11.6 Mag4Health Competitive Strengths & Weaknesses

8.12 Neurosoft

8.12.1 Neurosoft Details

8.12.2 Neurosoft Major Business

8.12.3 Neurosoft MEG Sensor Product and Services

8.12.4 Neurosoft MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Neurosoft Recent Developments/Updates

8.12.6 Neurosoft Competitive Strengths & Weaknesses

8.13 CTF MEG International

8.13.1 CTF MEG International Details

8.13.2 CTF MEG International Major Business

- 8.13.3 CTF MEG International MEG Sensor Product and Services
- 8.13.4 CTF MEG International MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.13.5 CTF MEG International Recent Developments/Updates
- 8.13.6 CTF MEG International Competitive Strengths & Weaknesses
- 8.14 Brain Products
 - 8.14.1 Brain Products Details
 - 8.14.2 Brain Products Major Business
 - 8.14.3 Brain Products MEG Sensor Product and Services
 - 8.14.4 Brain Products MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 Brain Products Recent Developments/Updates
 - 8.14.6 Brain Products Competitive Strengths & Weaknesses
- 8.15 Advanced Brain Monitoring
 - 8.15.1 Advanced Brain Monitoring Details
 - 8.15.2 Advanced Brain Monitoring Major Business
 - 8.15.3 Advanced Brain Monitoring MEG Sensor Product and Services
 - 8.15.4 Advanced Brain Monitoring MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.15.5 Advanced Brain Monitoring Recent Developments/Updates
 - 8.15.6 Advanced Brain Monitoring Competitive Strengths & Weaknesses
- 8.16 SQUID Technology
 - 8.16.1 SQUID Technology Details
 - 8.16.2 SQUID Technology Major Business
 - 8.16.3 SQUID Technology MEG Sensor Product and Services
 - 8.16.4 SQUID Technology MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.16.5 SQUID Technology Recent Developments/Updates
 - 8.16.6 SQUID Technology Competitive Strengths & Weaknesses
- 8.17 Kawasaki Heavy Industries
 - 8.17.1 Kawasaki Heavy Industries Details
 - 8.17.2 Kawasaki Heavy Industries Major Business
 - 8.17.3 Kawasaki Heavy Industries MEG Sensor Product and Services
 - 8.17.4 Kawasaki Heavy Industries MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.17.5 Kawasaki Heavy Industries Recent Developments/Updates
 - 8.17.6 Kawasaki Heavy Industries Competitive Strengths & Weaknesses
- 8.18 Hitachi High Tech
 - 8.18.1 Hitachi High Tech Details

- 8.18.2 Hitachi High Tech Major Business
- 8.18.3 Hitachi High Tech MEG Sensor Product and Services
- 8.18.4 Hitachi High Tech MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.18.5 Hitachi High Tech Recent Developments/Updates
- 8.18.6 Hitachi High Tech Competitive Strengths & Weaknesses
- 8.19 Applied Physics Systems
 - 8.19.1 Applied Physics Systems Details
 - 8.19.2 Applied Physics Systems Major Business
 - 8.19.3 Applied Physics Systems MEG Sensor Product and Services
 - 8.19.4 Applied Physics Systems MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.19.5 Applied Physics Systems Recent Developments/Updates
 - 8.19.6 Applied Physics Systems Competitive Strengths & Weaknesses
- 8.20 CroMag Systems
 - 8.20.1 CroMag Systems Details
 - 8.20.2 CroMag Systems Major Business
 - 8.20.3 CroMag Systems MEG Sensor Product and Services
 - 8.20.4 CroMag Systems MEG Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.20.5 CroMag Systems Recent Developments/Updates
 - 8.20.6 CroMag Systems Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 MEG Sensor Industry Chain
- 9.2 MEG Sensor Upstream Analysis
 - 9.2.1 MEG Sensor Core Raw Materials
 - 9.2.2 Main Manufacturers of MEG Sensor Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 MEG Sensor Production Mode
- 9.6 MEG Sensor Procurement Model
- 9.7 MEG Sensor Industry Sales Model and Sales Channels
 - 9.7.1 MEG Sensor Sales Model
 - 9.7.2 MEG Sensor Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World MEG Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World MEG Sensor Production Value by Region (2021-2026) & (USD Million)
- Table 3. World MEG Sensor Production Value by Region (2027-2032) & (USD Million)
- Table 4. World MEG Sensor Production Value Market Share by Region (2021-2026)
- Table 5. World MEG Sensor Production Value Market Share by Region (2027-2032)
- Table 6. World MEG Sensor Production by Region (2021-2026) & (Units)
- Table 7. World MEG Sensor Production by Region (2027-2032) & (Units)
- Table 8. World MEG Sensor Production Market Share by Region (2021-2026)
- Table 9. World MEG Sensor Production Market Share by Region (2027-2032)
- Table 10. World MEG Sensor Average Price by Region (2021-2026) & (K US\$/Unit)
- Table 11. World MEG Sensor Average Price by Region (2027-2032) & (K US\$/Unit)
- Table 12. MEG Sensor Major Market Trends
- Table 13. World MEG Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
- Table 14. World MEG Sensor Consumption by Region (2021-2026) & (Units)
- Table 15. World MEG Sensor Consumption Forecast by Region (2027-2032) & (Units)
- Table 16. World MEG Sensor Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key MEG Sensor Producers in 2025
- Table 18. World MEG Sensor Production by Manufacturer (2021-2026) & (Units)
- Table 19. Production Market Share of Key MEG Sensor Producers in 2025
- Table 20. World MEG Sensor Average Price by Manufacturer (2021-2026) & (K US\$/Unit)
- Table 21. Global MEG Sensor Company Evaluation Quadrant
- Table 22. World MEG Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and MEG Sensor Production Site of Key Manufacturer
- Table 24. MEG Sensor Market: Company Product Type Footprint
- Table 25. MEG Sensor Market: Company Product Application Footprint
- Table 26. MEG Sensor Competitive Factors
- Table 27. MEG Sensor New Entrant and Capacity Expansion Plans
- Table 28. MEG Sensor Mergers & Acquisitions Activity
- Table 29. United States VS China MEG Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China MEG Sensor Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China MEG Sensor Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based MEG Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers MEG Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers MEG Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers MEG Sensor Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers MEG Sensor Production Market Share (2021-2026)

Table 37. China Based MEG Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers MEG Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers MEG Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers MEG Sensor Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers MEG Sensor Production Market Share (2021-2026)

Table 42. Rest of World Based MEG Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers MEG Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers MEG Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers MEG Sensor Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers MEG Sensor Production Market Share (2021-2026)

Table 47. World MEG Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World MEG Sensor Production by Type (2021-2026) & (Units)

Table 49. World MEG Sensor Production by Type (2027-2032) & (Units)

Table 50. World MEG Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World MEG Sensor Production Value by Type (2027-2032) & (USD Million)

- Table 52. World MEG Sensor Average Price by Type (2021-2026) & (K US\$/Unit)
- Table 53. World MEG Sensor Average Price by Type (2027-2032) & (K US\$/Unit)
- Table 54. World MEG Sensor Production Value by OPM, (USD Million), 2021 & 2025 & 2032
- Table 55. World MEG Sensor Production by OPM (2021-2026) & (Units)
- Table 56. World MEG Sensor Production by OPM (2027-2032) & (Units)
- Table 57. World MEG Sensor Production Value by OPM (2021-2026) & (USD Million)
- Table 58. World MEG Sensor Production Value by OPM (2027-2032) & (USD Million)
- Table 59. World MEG Sensor Average Price by OPM (2021-2026) & (K US\$/Unit)
- Table 60. World MEG Sensor Average Price by OPM (2027-2032) & (K US\$/Unit)
- Table 61. World MEG Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 62. World MEG Sensor Production by Application (2021-2026) & (Units)
- Table 63. World MEG Sensor Production by Application (2027-2032) & (Units)
- Table 64. World MEG Sensor Production Value by Application (2021-2026) & (USD Million)
- Table 65. World MEG Sensor Production Value by Application (2027-2032) & (USD Million)
- Table 66. World MEG Sensor Average Price by Application (2021-2026) & (K US\$/Unit)
- Table 67. World MEG Sensor Average Price by Application (2027-2032) & (K US\$/Unit)
- Table 68. Elekta Basic Information, Manufacturing Base and Competitors
- Table 69. Elekta Major Business
- Table 70. Elekta MEG Sensor Product and Services
- Table 71. Elekta MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 72. Elekta Recent Developments/Updates
- Table 73. Elekta Competitive Strengths & Weaknesses
- Table 74. MEGIN Basic Information, Manufacturing Base and Competitors
- Table 75. MEGIN Major Business
- Table 76. MEGIN MEG Sensor Product and Services
- Table 77. MEGIN MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 78. MEGIN Recent Developments/Updates
- Table 79. MEGIN Competitive Strengths & Weaknesses
- Table 80. Compumedics Neuroscan Basic Information, Manufacturing Base and Competitors
- Table 81. Compumedics Neuroscan Major Business
- Table 82. Compumedics Neuroscan MEG Sensor Product and Services
- Table 83. Compumedics Neuroscan MEG Sensor Production (Units), Price (K

US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Compumedics Neuroscan Recent Developments/Updates

Table 85. Compumedics Neuroscan Competitive Strengths & Weaknesses

Table 86. Yokogawa Electric Corporation Basic Information, Manufacturing Base and Competitors

Table 87. Yokogawa Electric Corporation Major Business

Table 88. Yokogawa Electric Corporation MEG Sensor Product and Services

Table 89. Yokogawa Electric Corporation MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Yokogawa Electric Corporation Recent Developments/Updates

Table 91. Yokogawa Electric Corporation Competitive Strengths & Weaknesses

Table 92. Ricoh Company Basic Information, Manufacturing Base and Competitors

Table 93. Ricoh Company Major Business

Table 94. Ricoh Company MEG Sensor Product and Services

Table 95. Ricoh Company MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Ricoh Company Recent Developments/Updates

Table 97. Ricoh Company Competitive Strengths & Weaknesses

Table 98. Cerca Magnetics Basic Information, Manufacturing Base and Competitors

Table 99. Cerca Magnetics Major Business

Table 100. Cerca Magnetics MEG Sensor Product and Services

Table 101. Cerca Magnetics MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Cerca Magnetics Recent Developments/Updates

Table 103. Cerca Magnetics Competitive Strengths & Weaknesses

Table 104. FieldLine Basic Information, Manufacturing Base and Competitors

Table 105. FieldLine Major Business

Table 106. FieldLine MEG Sensor Product and Services

Table 107. FieldLine MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. FieldLine Recent Developments/Updates

Table 109. FieldLine Competitive Strengths & Weaknesses

Table 110. Tristan Technologies Basic Information, Manufacturing Base and Competitors

Table 111. Tristan Technologies Major Business

Table 112. Tristan Technologies MEG Sensor Product and Services

Table 113. Tristan Technologies MEG Sensor Production (Units), Price (K US\$/Unit),

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

Table 114. Tristan Technologies Recent Developments/Updates

Table 115. Tristan Technologies Competitive Strengths & Weaknesses

Table 116. QuSpin Basic Information, Manufacturing Base and Competitors

Table 117. QuSpin Major Business

Table 118. QuSpin MEG Sensor Product and Services

Table 119. QuSpin MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. QuSpin Recent Developments/Updates

Table 121. QuSpin Competitive Strengths & Weaknesses

Table 122. Twinleaf Basic Information, Manufacturing Base and Competitors

Table 123. Twinleaf Major Business

Table 124. Twinleaf MEG Sensor Product and Services

Table 125. Twinleaf MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Twinleaf Recent Developments/Updates

Table 127. Twinleaf Competitive Strengths & Weaknesses

Table 128. Mag4Health Basic Information, Manufacturing Base and Competitors

Table 129. Mag4Health Major Business

Table 130. Mag4Health MEG Sensor Product and Services

Table 131. Mag4Health MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Mag4Health Recent Developments/Updates

Table 133. Mag4Health Competitive Strengths & Weaknesses

Table 134. Neurosoft Basic Information, Manufacturing Base and Competitors

Table 135. Neurosoft Major Business

Table 136. Neurosoft MEG Sensor Product and Services

Table 137. Neurosoft MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Neurosoft Recent Developments/Updates

Table 139. Neurosoft Competitive Strengths & Weaknesses

Table 140. CTF MEG International Basic Information, Manufacturing Base and Competitors

Table 141. CTF MEG International Major Business

Table 142. CTF MEG International MEG Sensor Product and Services

Table 143. CTF MEG International MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. CTF MEG International Recent Developments/Updates

Table 145. CTF MEG International Competitive Strengths & Weaknesses

- Table 146. Brain Products Basic Information, Manufacturing Base and Competitors
- Table 147. Brain Products Major Business
- Table 148. Brain Products MEG Sensor Product and Services
- Table 149. Brain Products MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 150. Brain Products Recent Developments/Updates
- Table 151. Brain Products Competitive Strengths & Weaknesses
- Table 152. Advanced Brain Monitoring Basic Information, Manufacturing Base and Competitors
- Table 153. Advanced Brain Monitoring Major Business
- Table 154. Advanced Brain Monitoring MEG Sensor Product and Services
- Table 155. Advanced Brain Monitoring MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 156. Advanced Brain Monitoring Recent Developments/Updates
- Table 157. Advanced Brain Monitoring Competitive Strengths & Weaknesses
- Table 158. SQUID Technology Basic Information, Manufacturing Base and Competitors
- Table 159. SQUID Technology Major Business
- Table 160. SQUID Technology MEG Sensor Product and Services
- Table 161. SQUID Technology MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 162. SQUID Technology Recent Developments/Updates
- Table 163. SQUID Technology Competitive Strengths & Weaknesses
- Table 164. Kawasaki Heavy Industries Basic Information, Manufacturing Base and Competitors
- Table 165. Kawasaki Heavy Industries Major Business
- Table 166. Kawasaki Heavy Industries MEG Sensor Product and Services
- Table 167. Kawasaki Heavy Industries MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 168. Kawasaki Heavy Industries Recent Developments/Updates
- Table 169. Kawasaki Heavy Industries Competitive Strengths & Weaknesses
- Table 170. Hitachi High Tech Basic Information, Manufacturing Base and Competitors
- Table 171. Hitachi High Tech Major Business
- Table 172. Hitachi High Tech MEG Sensor Product and Services
- Table 173. Hitachi High Tech MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 174. Hitachi High Tech Recent Developments/Updates
- Table 175. Hitachi High Tech Competitive Strengths & Weaknesses

Table 176. Applied Physics Systems Basic Information, Manufacturing Base and Competitors

Table 177. Applied Physics Systems Major Business

Table 178. Applied Physics Systems MEG Sensor Product and Services

Table 179. Applied Physics Systems MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 180. Applied Physics Systems Recent Developments/Updates

Table 181. Applied Physics Systems Competitive Strengths & Weaknesses

Table 182. CroMag Systems Basic Information, Manufacturing Base and Competitors

Table 183. CroMag Systems Major Business

Table 184. CroMag Systems MEG Sensor Product and Services

Table 185. CroMag Systems MEG Sensor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 186. CroMag Systems Recent Developments/Updates

Table 187. CroMag Systems Competitive Strengths & Weaknesses

Table 188. Global Key Players of MEG Sensor Upstream (Raw Materials)

Table 189. Global MEG Sensor Typical Customers

Table 190. MEG Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. MEG Sensor Picture

Figure 2. World MEG Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World MEG Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World MEG Sensor Production (2021-2032) & (Units)

Figure 5. World MEG Sensor Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World MEG Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World MEG Sensor Production Market Share by Region (2021-2032)

Figure 8. North America MEG Sensor Production (2021-2032) & (Units)

Figure 9. Europe MEG Sensor Production (2021-2032) & (Units)

Figure 10. China MEG Sensor Production (2021-2032) & (Units)

Figure 11. Japan MEG Sensor Production (2021-2032) & (Units)

Figure 12. South Korea MEG Sensor Production (2021-2032) & (Units)

Figure 13. Southeast Asia MEG Sensor Production (2021-2032) & (Units)

Figure 14. China Taiwan MEG Sensor Production (2021-2032) & (Units)

Figure 15. MEG Sensor Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World MEG Sensor Consumption (2021-2032) & (Units)

Figure 18. World MEG Sensor Consumption Market Share by Region (2021-2032)

Figure 19. United States MEG Sensor Consumption (2021-2032) & (Units)

Figure 20. China MEG Sensor Consumption (2021-2032) & (Units)

Figure 21. Europe MEG Sensor Consumption (2021-2032) & (Units)

Figure 22. Japan MEG Sensor Consumption (2021-2032) & (Units)

Figure 23. South Korea MEG Sensor Consumption (2021-2032) & (Units)

Figure 24. ASEAN MEG Sensor Consumption (2021-2032) & (Units)

Figure 25. India MEG Sensor Consumption (2021-2032) & (Units)

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

Figure 27. Global Four-firm Concentration Ratios (CR4) for MEG Sensor Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for MEG Sensor Markets in 2025

Figure 29. United States VS China: MEG Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: MEG Sensor Production Market Share Comparison

(2021 & 2025 & 2032)

Figure 31. United States VS China: MEG Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers MEG Sensor Production Market Share 2025

Figure 33. China Based Manufacturers MEG Sensor Production Market Share 2025

Figure 34. Rest of World Based Manufacturers MEG Sensor Production Market Share 2025

Figure 35. World MEG Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World MEG Sensor Production Value Market Share by Type in 2025

Figure 37. Low-Tc SQUID MEG Sensors

Figure 38. Magnetometer SQUID Sensors

Figure 39. Axial Gradiometer SQUID Sensors

Figure 40. Planar Gradiometer SQUID Sensors

Figure 41. World MEG Sensor Production Market Share by Type (2021-2032)

Figure 42. World MEG Sensor Production Value Market Share by Type (2021-2032)

Figure 43. World MEG Sensor Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 44. World MEG Sensor Production Value by OPM, (USD Million), 2021 & 2025 & 2032

Figure 45. World MEG Sensor Production Value Market Share by OPM in 2025

Figure 46. Alkali-vapor OPM MEG Sensors

Figure 47. Spin-exchange Relaxation-Free (SERF) OPM Sensors

Figure 48. Wearable OPM MEG Sensors

Figure 49. World MEG Sensor Production Market Share by OPM (2021-2032)

Figure 50. World MEG Sensor Production Value Market Share by OPM (2021-2032)

Figure 51. World MEG Sensor Average Price by OPM (2021-2032) & (K US\$/Unit)

Figure 52. World MEG Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 53. World MEG Sensor Production Value Market Share by Application in 2025

Figure 54. Clinical Healthcare

Figure 55. Neuroscience Research

Figure 56. Neurological Disorders Research

Figure 57. BCI & Human–Machine Interaction

Figure 58. Pharmaceutical & Life Sciences

Figure 59. Education & Frontier Research

Figure 60. World MEG Sensor Production Market Share by Application (2021-2032)

Figure 61. World MEG Sensor Production Value Market Share by Application (2021-2032)

Figure 62. World MEG Sensor Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 63. MEG Sensor Industry Chain

Figure 64. MEG Sensor Procurement Model

Figure 65. MEG Sensor Sales Model

Figure 66. MEG Sensor Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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