

Global MEG Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global MEG Sensor market size was valued at US\$ 579 million in 2025 and is forecast to a readjusted size of US\$ 3270 million by 2032 with a CAGR of 27.9% during review period.

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 is a detailed and comprehensive analysis for global MEG Sensor 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 MEG Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global MEG Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global MEG Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global MEG Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 MEG Sensor

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 MEG Sensor 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 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.

Market Segmentation

MEG Sensor market is split by Type and by Application. For the period 2021-2032, 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

Low-Tc SQUID MEG Sensors

Magnetometer SQUID Sensors

Axial Gradiometer SQUID Sensors

Planar Gradiometer SQUID Sensors

Market segment by OPM

Alkali-vapor OPM MEG Sensors

Spin-exchange Relaxation-Free (SERF) OPM Sensors

Wearable OPM MEG Sensors

Market segment by Application

Clinical Healthcare

Neuroscience Research

Neurological Disorders Research

BCI & Human–Machine Interaction

Pharmaceutical & Life Sciences

Education & Frontier Research

Major players covered

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

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 MEG Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MEG Sensor, with price, sales quantity, revenue, and global market share of MEG Sensor from 2021 to 2026.

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

Chapter 4, the MEG Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and MEG Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 MEG Sensor.

Chapter 14 and 15, to describe MEG Sensor sales channel, distributors, customers, research findings and conclusion.

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