

Global MEG Sensor Market Growth 2026-2032

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Abstracts

The global MEG Sensor market size is predicted to grow from US\$ 550 million in 2025 to US\$ 3371 million in 2032; it is expected to grow at a CAGR of 29.7% from 2026 to 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.

United States market for MEG Sensor is estimated to increase from US\$ million in 2025

to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for MEG Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for MEG Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key MEG Sensor players cover Elekta, MEGIN, Compumedics Neuroscan, Yokogawa Electric Corporation, Ricoh Company, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “MEG Sensor Industry Forecast” looks at past sales and reviews total world MEG Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected MEG Sensor sales for 2026 through 2032. With MEG Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world MEG Sensor industry.

This Insight Report provides a comprehensive analysis of the global MEG Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on MEG Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global MEG Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MEG Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global MEG Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of MEG Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low-Tc SQUID MEG Sensors

Magnetometer SQUID Sensors

Axial Gradiometer SQUID Sensors

Planar Gradiometer SQUID Sensors

Segmentation by OPM:

Alkali-vapor OPM MEG Sensors

Spin-exchange Relaxation-Free (SERF) OPM Sensors

Wearable OPM MEG Sensors

Segmentation by Application:

Clinical Healthcare

Neuroscience Research

Neurological Disorders Research

BCI & Human–Machine Interaction

Pharmaceutical & Life Sciences

Education & Frontier Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global MEG Sensor market?

What factors are driving MEG Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do MEG Sensor market opportunities vary by end market size?

How does MEG Sensor break out by Type, by Application?

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