

Global Superconducting Quantum Interference Devices Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Superconducting Quantum Interference Devices market size is expected to reach \$ 1069 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

A Superconducting Quantum Interference Devices is an ultra-sensitive magnetic-flux sensor built on flux quantization in a superconducting loop and coherent tunneling through Josephson junctions. Its typical form is a microfabricated planar chip packaged in a cryogenic enclosure. The core structure consists of a superconducting closed loop, one or two Josephson junctions, an input coil, a feedback coil, a modulation coil, shunt resistors, and readout electronics. Common material systems include niobium-based low-temperature superconducting thin films and high-temperature superconducting thin films such as YBCO. By operating principle, SQUIDs are classified into dc SQUIDs and rf SQUIDs; by temperature regime, into low-temperature and high-temperature SQUIDs; and by use case, into magnetometers, gradiometers, current sensors, and nanoSQUIDs. Their function is to convert extremely weak magnetic-field or magnetic-flux variations into measurable voltage signals, enabling applications in magnetoencephalography, magnetocardiography, magnetic characterization of materials, geophysical exploration, nondestructive evaluation, cryogenic detector readout, and advanced quantum measurement.

The SQUID industry is entering a pivotal phase in which it is evolving from a niche scientific device segment into a core enabling layer for advanced measurement platforms. Its opportunity is not driven by a single volume market, but by the simultaneous deepening of multiple high-barrier application domains. In brain science, magnetocardiography, ultra-low-noise readout, material characterization, geophysical

exploration, and industrial nondestructive evaluation, end users continue to demand the ability to detect extremely weak magnetic signals with greater fidelity. In these settings, SQUID technology retains a privileged position because of its near-fundamental sensitivity, mature flux-locked readout architecture, and proven capability to deliver precision under demanding measurement conditions. At the same time, global investment in advanced research infrastructure, quantum technologies, next-generation medical diagnostics, and defense-related sensing is shifting procurement behavior from component sourcing toward system-level adoption. As a result, value creation in this industry is moving away from standalone device sales and toward platforms, integration, and high-value technical services. Furthermore, progress in high-temperature superconducting materials, low-vibration cryogenic systems, array packaging, and low-noise electronics is redefining the engineering boundary of SQUID deployment, expanding the addressable opportunity beyond laboratories into broader clinical, energy, advanced manufacturing, and frontier sensing environments. For investors and strategic decision-makers, the real attraction of this industry lies not in short-term scale, but in its deep technological moat, cross-disciplinary extensibility, and its role as a foundational performance multiplier within high-end equipment ecosystems. That said, the SQUID industry is not a standardized growth market that can scale simply through natural demand diffusion. Its expansion is inherently tied to engineering complexity, customer education, and difficult industrial coordination. Device performance depends critically on superconducting film quality, Josephson junction uniformity, cryogenic packaging stability, magnetic shielding, and the tight co-optimization of readout electronics. Weakness in any one of these layers can surface as drift, noise, or reliability issues at the system level. This means serious industry participants must command a rare blend of materials science, fabrication know-how, cryogenic engineering, analog electronics, and application-specific interpretation. In parallel, the customer base is concentrated in highly specialized sectors such as healthcare, research, defense, energy, and advanced industry, where purchasing cycles are long, validation requirements are strict, and adoption costs are high. This makes the sector better suited to long-horizon capability building than to short-term speculative entry. Competitive pressure is also changing. Emerging alternatives such as optically pumped magnetometers are reshaping user expectations in certain biomagnetic settings around cost, flexibility, and ease of deployment. SQUID companies can no longer rely on sensitivity leadership alone; they must also address cost structure, footprint, serviceability, delivery efficiency, and usability. In addition, helium supply constraints, dependence on specialized equipment, limits on cross-border technology transfer, and shortages of top-tier talent may all act as practical restraints in different regions. This is therefore not a market for light-asset expansion or superficial commercialization. It is a deep-technology arena in which sustainable advantage will accrue to companies

capable of combining long-term R&D discipline, rigorous manufacturing competence, and the ability to define application value in concrete operational terms. Looking downstream, the future commercial trajectory of SQUID will increasingly depend on whether the technology can be embedded into real workflows rather than merely demonstrate superior theoretical performance. In healthcare, magnetoencephalography, magnetocardiography, and adjacent neuro- and cardiovascular functional diagnostics are moving beyond scientific relevance toward clinical translation, workflow efficiency, and integrated diagnostic value. The market is likely to favor turnkey systems that are maintainable, scalable, and reliable over long operating cycles. In research environments, demand is shifting from single-channel performance optimization toward multi-channel arrays, automated acquisition, and interoperability with broader instrument ecosystems, pushing SQUID vendors toward platform architectures, specialized modules, and software-enabled solutions. In industrial and energy applications, use cases such as nondestructive testing, weak-current sensing, subsurface exploration, and defect recognition in complex materials increasingly value interference rejection, portability, and interpretive intelligence. This will encourage suppliers to evolve from device vendors into industry solution partners. Importantly, the companies most likely to demonstrate durable growth may not be those with the strongest standalone sensor specifications, but those able to integrate SQUID devices with cryogenics, shielding, electronics, algorithms, software, and domain-specific workflows, and deliver them in a turnkey form that customers can readily operationalize. In other words, the next phase of competition in the SQUID market will not be defined solely by who can build the most sensitive device, but by who can convert quantum-level sensitivity into sustained commercial value that customers are willing to adopt, fund, and scale.

This report studies the global Superconducting Quantum Interference Devices production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Superconducting Quantum Interference Devices 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 Superconducting Quantum Interference Devices that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Superconducting Quantum Interference Devices total production and demand, 2021-2032, (K Units)

Global Superconducting Quantum Interference Devices total production value, 2021-2032, (USD Million)

Global Superconducting Quantum Interference Devices production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Superconducting Quantum Interference Devices consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Superconducting Quantum Interference Devices domestic production, consumption, key domestic manufacturers and share

Global Superconducting Quantum Interference Devices production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Superconducting Quantum Interference Devices production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Superconducting Quantum Interference Devices production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Superconducting Quantum Interference Devices 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 CNPhotec, FormFactor, Quantum Design, Compumedics, MEGIN, Applied Physics Systems, Cryogenic, Supracon, STAR Cryoelectronics, Magnicon, 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 Superconducting Quantum Interference Devices market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Superconducting Quantum Interference Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Superconducting Quantum Interference Devices Market, Segmentation by Type:

AC

RF

Global Superconducting Quantum Interference Devices Market, Segmentation by Superconducting Material Family:

Niobium-based SQUID

YBCO-based SQUID

BSCCO-based SQUID

MgB₂-based SQUID

Other Superconducting-material SQUID

Global Superconducting Quantum Interference Devices Market, Segmentation by Weak-

Link or Junction Formation Route:

Tunnel-Junction SQUID

Grain-Boundary Junction SQUID

Dayem-Bridge SQUID

Nanobridge SQUID

Point-Contact SQUID

Global Superconducting Quantum Interference Devices Market, Segmentation by Physical Construction or Integration Level:

Bare SQUID Chip

Packaged SQUID Sensor Head

Global Superconducting Quantum Interference Devices Market, Segmentation by Application:

Electronics

Precision Instrument

Others

Companies Profiled:

CNPhotec

FormFactor

Quantum Design

Compumedics

MEGIN

Applied Physics Systems

Cryogenic

Supracon

STAR Cryoelectronics

Magnicon

CTF MEG

Tristan Technologies

SUSTEC

AMCG

Neocera Magma

Mesuron

ez SQUID

MagQu

Key Questions Answered:

1. How big is the global Superconducting Quantum Interference Devices market?
2. What is the demand of the global Superconducting Quantum Interference Devices market?
3. What is the year over year growth of the global Superconducting Quantum Interference Devices market?
4. What is the production and production value of the global Superconducting Quantum Interference Devices market?

5. Who are the key producers in the global Superconducting Quantum Interference Devices market?
6. What are the growth factors driving the market demand?

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