

Global Magnetic Core Current Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetic Core Current Sensors market size is expected to reach \$ 3174 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Magnetic-core current sensors are isolated current-measurement devices that use a magnetic core, toroidal core, split core, iron core, or compensated magnetic circuit to concentrate, couple, detect, or balance the magnetic field generated by a current-carrying conductor. Typical products include current transformers, open-loop Hall-effect current sensors, closed-loop Hall-effect current transducers, zero-flux current sensors, fluxgate current transducers, residual-current sensors, and iron-core current probes. Their key value lies in safe, isolated, non-contact, wide-range, and reliable current measurement.

Magnetic-core current sensors are a mature but continuously upgraded category within industrial current measurement and power electronics. The category includes current transformers, open-loop Hall-effect current sensors, closed-loop Hall-effect current transducers, zero-flux current sensors, fluxgate current transducers, residual-current sensors, and iron-core current probes. These products use a magnetic core, toroidal core, split core, iron core, or compensated magnetic circuit to concentrate, detect, couple, or balance the magnetic field generated by a current-carrying conductor.

The market remains important because magnetic-core structures offer strong advantages in electrical isolation, safety, wide current range, robustness, and system-level reliability. Traditional current transformers are widely used in AC power monitoring, building energy management, switchgear, and low-voltage distribution because they are cost-effective and reliable. Open-loop Hall current sensors are suitable for AC/DC

measurement in inverters, motor drives, UPS systems, charging equipment, and general industrial power electronics. Closed-loop Hall, zero-flux, and fluxgate sensors are used where higher accuracy, better linearity, lower offset drift, faster response, and wider bandwidth are required.

Demand growth is mainly driven by electric vehicles, EV charging infrastructure, energy storage systems, photovoltaic inverters, industrial automation, data-center UPS systems, motor drives, rail traction, and smart power distribution. As SiC and GaN power devices, high-frequency inverters, 800V EV platforms, and high-power charging systems expand, customers are placing more emphasis on bandwidth, response time, insulation performance, common-mode immunity, temperature stability, and long-term measurement accuracy.

From the supply side, the market is led by a mix of dedicated current sensor manufacturers, magnetic component specialists, industrial electrical equipment suppliers, and test-and-measurement probe manufacturers. LEM, TAMURA, VACUUMSCHMELZE, Danisense, HIOKI, and Kohshin are strong in high-performance Hall, closed-loop, zero-flux, fluxgate, and precision current sensing. Socomec, ABB, Phoenix Contact, Carlo Gavazzi, SENECA, and IME benefit from industrial electrical distribution and automation channels. CR Magnetics, NK Technologies, Magnelab, and Chauvin Arnoux / AEMC have strong positions in North American and European industrial monitoring and test applications. Chinese suppliers such as Acrel, YHDC, and Socan are becoming more competitive in split-core CTs, open-loop Hall sensors, energy monitoring, and cost-sensitive applications.

Magnetic-core current sensors will continue to coexist with coreless Hall ICs, shunt resistors, Rogowski coils, and fiber-optic current sensors. Coreless ICs are attractive for compact board-level integration, shunt resistors are strong in low-cost and low-voltage precision measurement, Rogowski coils are useful for flexible installation and very large AC current measurement, and fiber-optic sensors serve specialized high-voltage applications. However, magnetic-core sensors remain highly relevant in applications that require isolated high-current measurement, AC/DC compatibility, industrial safety certification, high noise immunity, wide current ranges, and proven long-term reliability.

Over the medium term, low-end current transformers and open-loop Hall sensors will remain price-competitive, while higher-value growth will come from closed-loop Hall sensors, zero-flux and fluxgate current transducers, wideband current probes, automotive-grade sensors, high-insulation packages, and customized high-current sensing assemblies. Suppliers with strong magnetic core design, compensation

electronics, insulation design, thermal stability, calibration capability, and application engineering support will be better positioned than companies offering only standard low-cost CT products.

This report studies the global Magnetic Core Current Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnetic Core Current Sensors 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 Magnetic Core Current Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnetic Core Current Sensors total production and demand, 2021-2032, (K Units)

Global Magnetic Core Current Sensors total production value, 2021-2032, (USD Million)

Global Magnetic Core Current Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Magnetic Core Current Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Magnetic Core Current Sensors domestic production, consumption, key domestic manufacturers and share

Global Magnetic Core Current Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Magnetic Core Current Sensors production by Rated Current Range, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Magnetic Core Current Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Magnetic Core Current Sensors 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 LEM Holding SA, TAMURA Corporation, VACUUMSCHMELZE, HIOKI E.E. Corporation, Socomec Group, ABB, Danisense A/S, Kohshin Electric Corporation, CR Magnetics, Inc., NK Technologies, 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 Magnetic Core Current Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Rated Current Range, 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 Magnetic Core Current Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Core Current Sensors Market, Segmentation by Rated Current Range:

Below 50 A

50?200 A

200?600 A

600?2,000 A

Above 2,000 A

Global Magnetic Core Current Sensors Market, Segmentation by Measurement Capability:

AC-only Current Measurement

General AC/DC Current Measurement

High-precision AC/DC Measurement

High-bandwidth / Pulsed Current Measurement

Global Magnetic Core Current Sensors Market, Segmentation by Mechanical Form Factor:

Solid-core Through-hole Sensors

Split-core / Clamp-on Sensors

PCB-mounted Magnetic-core Sensors

DIN-rail / Panel-mounted Transducers

Instrument Current Probes and Clamps

Global Magnetic Core Current Sensors Market, Segmentation by Application:

Industrial Automation and Motor Drives

EV / HEV and Charging Infrastructure

Renewable Energy and Energy Storage

Building Energy and Power Monitoring

UPS, Power Supplies and Data Centers

Test, Measurement and Laboratory Instruments

Rail, Grid and Heavy Industry

Companies Profiled:

LEM Holding SA

TAMURA Corporation

VACUUMSCHMELZE

HIOKI E.E. Corporation

Socomec Group

ABB

Danisense A/S

Kohshin Electric Corporation

CR Magnetics, Inc.

NK Technologies

Magnetlab

Acrel Electric Co., Ltd.

Chauvin Arnoux

Carlo Gavazzi

SENECA S.r.l.

Phoenix Contact

IME

Beijing YaoHuadechang Electronic

Shenzhen Socan Technologies

CHENYANG Technologies

Key Questions Answered:

1. How big is the global Magnetic Core Current Sensors market?
2. What is the demand of the global Magnetic Core Current Sensors market?
3. What is the year over year growth of the global Magnetic Core Current Sensors market?
4. What is the production and production value of the global Magnetic Core Current Sensors market?
5. Who are the key producers in the global Magnetic Core Current Sensors market?
6. What are the growth factors driving the market demand?

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