

Global Helmholtz Coils Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helmholtz Coils market size is expected to reach \$ 364 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

In 2025, global Helmholtz coil production capacity is approximately 40,000 sets, with actual production reaching around 32,000 sets. The average global market price is about US\$8,000 per set. The market gross profit margin mainly ranges from 30% to 45%. Helmholtz coils are a pair of identical circular coils placed symmetrically along a common axis and separated by a distance equal to their radius. When equal currents flow through both coils in the same direction, they generate a highly uniform magnetic field in the region between them. This configuration is widely used in applications requiring controlled and homogeneous magnetic fields. The simplicity of the structure and the predictability of the generated field make Helmholtz coils a standard tool in laboratories and industrial testing environments. Variants include triaxial Helmholtz coil systems, which use three orthogonal coil pairs to generate magnetic fields in three dimensions, enabling full vector control of the magnetic environment.

The upstream of the Helmholtz coil industry includes copper wire, insulation materials, power supplies, mechanical frames, and magnetic sensors. Suppliers provide high-purity conductive materials and precision winding components. The midstream focuses on coil design, electromagnetic simulation, structural fabrication, and system integration, including current control and field calibration. Manufacturers differentiate through field uniformity, coil size, thermal stability, and integration with control systems. The downstream applications include sensor calibration, electromagnetic compatibility (EMC) testing, quantum research, aerospace testing, and educational laboratories. Demand is driven by increasing requirements for precise magnetic field control in scientific and industrial environments. Customization and system-level integration are

key competitive factors.

The Helmholtz coil market is growing steadily, supported by increasing demand for precise magnetic field generation in scientific research, industrial testing, and emerging technologies. As applications such as quantum sensing, autonomous navigation, and advanced sensor calibration expand, the need for highly uniform and controllable magnetic environments is becoming more critical. Helmholtz coils are widely used in calibration systems for magnetometers, compasses, and other magnetic sensors, particularly in aerospace and automotive industries. The growth of electric vehicles and autonomous systems is further driving demand for accurate sensor calibration solutions. Technological advancements are improving coil design, thermal management, and digital control integration, enabling higher precision and stability. Triaxial systems are becoming more common, offering full 3D magnetic field control. While the market remains specialized, increasing adoption in high-tech and research sectors is expected to sustain steady growth.

This report studies the global Helmholtz Coils production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Helmholtz Coils total production and demand, 2021-2032, (Units)

Global Helmholtz Coils total production value, 2021-2032, (USD Million)

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

Global Helmholtz Coils consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Helmholtz Coils domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Helmholtz Coils 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 3B Scientific, PHYWE, PASCO, SLU Serviciencia, Hirst Magnetic Instruments Ltd, Accel Instruments, Schwarzbeck Mess-Elektronik, ASC Scientific, Oersted Technology, Woodruff Scientific, 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 Helmholtz Coils market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helmholtz Coils Market, Segmentation by Type:

Single-axis

Three-axis

Global Helmholtz Coils Market, Segmentation by Magnetic Field Type:

DC

AC

Global Helmholtz Coils Market, Segmentation by Coil Size:

Small (100 cm radius)

Global Helmholtz Coils Market, Segmentation by Application:

Sensor Calibration

Electromagnetic Compatibility (EMC) Testing

Quantum Research

Aerospace

Scientific Research

Others

Companies Profiled:

3B Scientific

PHYWE

PASCO

SLU Serviciencia

Hirst Magnetic Instruments Ltd

Accel Instruments

Schwarzbeck Mess-Elektronik

ASC Scientific

Oersted Technology

Woodruff Scientific

Lake Shore Cryotronics, Inc. (DirectVacuum)

British Science

LD DIDACTIC GmbH (LEYBOLD)

Bartington Instruments

Montena Technology SA

Key Questions Answered:

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

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