

Global Hollow Tube Electromagnets Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hollow Tube Electromagnets market size is expected to reach \$ 715 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

In 2025, global Hollow Tube Electromagnets production reached approximately 26.67 M Units. The average price is approximately \$18. Hollow Tube Electromagnets are normal-conducting magnetic devices whose excitation windings are made from copper, aluminium, or another conductive material containing a continuous internal coolant channel.

Hollow Tube Electromagnets constitute a specialized segment of the normal-conducting magnet industry rather than a simple subset of generic water-cooled solenoids. The defining characteristic is that the current-carrying conductor itself contains the coolant passage, allowing low-conductivity or deionized water to remove heat directly along the full active length of the winding. This construction can support substantially higher current density, stronger magnetic fields within a constrained envelope, and continuous operation at power levels that would be difficult to achieve with conventional solid-wire windings. It also creates a more demanding manufacturing process. Conductor bend radius, dimensional stability, brazed hydraulic joints, electrical isolation, parallel coolant paths, pressure drop, water chemistry, vacuum impregnation, mechanical support, and magnetic field accuracy must all be controlled together. For this reason, the report applies a narrow market definition focused on finished electromagnets and qualified coil assemblies using internally liquid-cooled current-carrying conductors. Conventional tubular solenoids, air-core coils, externally cooled solid-wire magnets, foil-wound magnets without internal coolant passages, superconducting magnets, standalone hollow copper conductor, power supplies, and chillers are treated outside the revenue

scope. A broader manufacturer pool is retained for completeness because many suppliers publicly describe their products only as “water-cooled” or “internally cooled,” without disclosing the conductor cross-section. Those suppliers are included in the longlist but discounted or excluded from the strict revenue model where the construction cannot be verified.

The global supply structure is fragmented and highly specialized. European and North American manufacturers hold strong positions in accelerator, particle-therapy, scientific-instrument, and industrial-separation applications, supported by long engineering histories and the ability to execute low-volume, high-complexity projects. A limited group of manufacturers publicly confirms the use of hollow copper, hollow aluminium, or hollow-core conductor, including Stangenes Industries, Custom Coils, Eriez, Danfysik, ANTEC, and Buckley Systems. A broader second group clearly manufactures water-cooled normal-conducting magnets but discloses less detail about the internal cooling architecture. Japan has a deep accelerator-magnet supply chain spanning Hitachi, IDX, Tecno Electric, TEIKOKU, and smaller precision manufacturers, although magnet revenue is usually a small and undisclosed portion of group sales. China has developed a growing base of suppliers for laboratory electromagnets, multipole field sources, magnetic-measurement systems, and custom water-cooled magnets. However, public technical documentation from Chinese suppliers often provides fewer details on conductor geometry, water chemistry, brazing procedures, and cooling-channel configuration. Consequently, the core formal list contains 25 manufacturers with meaningful official evidence, while additional regional companies are retained in the extended list or watchlist rather than being treated as confirmed hollow-conductor suppliers.

Demand is supported by a diversified combination of accelerator infrastructure, particle therapy, semiconductor beam equipment, scientific research, and industrial magnetic separation. The International Atomic Energy Agency reports that tens of thousands of particle accelerators are operating worldwide, with the majority serving medical or commercial applications and a smaller number supporting scientific research. Research accelerators are limited in number but can require dozens or hundreds of bending, focusing, steering, and correction magnets. Particle Therapy Co-Operative Group information also identifies facilities under construction across China, Europe, India, South Korea, the Middle East, and Taiwan, sustaining demand for beam-transport and treatment-system magnets. From the product route perspective, suppliers are focusing on lower-resistance conductors, optimized parallel cooling circuits, improved radiation-resistant insulation, integrated flow and temperature monitoring, replaceable coil packs, and higher-efficiency magnetic circuits. Superconducting magnets will gain share where

exceptionally high fields and lower steady-state electrical losses justify cryogenic complexity. Nevertheless, water-cooled normal-conducting magnets retain important advantages in rapidly adjustable fields, cycling applications, room-temperature maintenance, radiation-intensive environments, smaller projects, and installations where capital cost and service accessibility outweigh electrical efficiency.

This report studies the global Hollow Tube Electromagnets production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Hollow Tube Electromagnets total production and demand, 2021-2032, (K Units)

Global Hollow Tube Electromagnets total production value, 2021-2032, (USD Million)

Global Hollow Tube Electromagnets production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Hollow Tube Electromagnets consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Hollow Tube Electromagnets domestic production, consumption, key domestic manufacturers and share

Global Hollow Tube Electromagnets production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Hollow Tube Electromagnets production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Hollow Tube Electromagnets production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Hollow Tube Electromagnets 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 Buckley Systems Limited, DANFYSIK A/S, SIGMAPHI, Nodica Group, Eriez Manufacturing Co., Tesla Engineering Ltd, Everson Tesla, Inc., ANTEC MAGNETS S.L.U., Stangenes Industries, Inc., Elytt Energy, 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 Hollow Tube Electromagnets 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 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 Hollow Tube Electromagnets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hollow Tube Electromagnets Market, Segmentation by Type:

Bending Magnets

Focusing Magnets

Higher-Order Multipole Magnets

Others

Global Hollow Tube Electromagnets Market, Segmentation by Conductor and Winding Construction:

Hollow Copper Conductor

Hollow Aluminium Conductor

Others

Global Hollow Tube Electromagnets Market, Segmentation by Rated Travel:

Short-Stroke Type: Rated Stroke ? 15 mm

Medium-Stroke Type: Rated Stroke 15?30 mm

Long-Stroke Type: Rated Stroke > 30 mm

Global Hollow Tube Electromagnets Market, Segmentation by Application:

Industrial Automation

Healthcare Sector

Medical Equipment

Others

Companies Profiled:

Buckley Systems Limited

DANFYSIK A/S

SIGMAPHI

Nodica Group

Eriez Manufacturing Co.

Tesla Engineering Ltd

Everson Tesla, Inc.

ANTEC MAGNETS S.L.U.

Stangenes Industries, Inc.

Elytt Energy

Hitachi, Ltd.

D-Pace, Inc.

Custom Coils

Xiamen Dexing Magnet Tech. Co., Ltd.

Hunan Yongyi Technology Co., Ltd.

Tecno Electric

TEIKOKU ELECTRIC MFG. CO., LTD.

JL Magnet

Key Questions Answered:

1. How big is the global Hollow Tube Electromagnets market?
2. What is the demand of the global Hollow Tube Electromagnets market?
3. What is the year over year growth of the global Hollow Tube Electromagnets market?
4. What is the production and production value of the global Hollow Tube

Electromagnets market?

5. Who are the key producers in the global Hollow Tube Electromagnets market?

6. What are the growth factors driving the market demand?

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