

Global Hollow Tube Electromagnets Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Hollow Tube Electromagnets market size was valued at US\$ 494 million in 2025 and is forecast to a readjusted size of US\$ 715 million by 2032 with a CAGR of 5.0% during review period.

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 is a detailed and comprehensive analysis for global Hollow Tube Electromagnets market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Hollow Tube Electromagnets market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hollow Tube Electromagnets market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hollow Tube Electromagnets market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hollow Tube Electromagnets market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hollow Tube Electromagnets

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hollow Tube Electromagnets market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Hollow Tube Electromagnets market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Bending Magnets

Focusing Magnets

Higher-Order Multipole Magnets

Others

Market segment by Conductor and Winding Construction

Hollow Copper Conductor

Hollow Aluminium Conductor

Others

Market segment 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

Market segment by Application

Industrial Automation

Healthcare Sector

Medical Equipment

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hollow Tube Electromagnets product scope, market overview,

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market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hollow Tube Electromagnets, with price, sales quantity, revenue, and global market share of Hollow Tube Electromagnets from 2021 to 2026.

Chapter 3, the Hollow Tube Electromagnets competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hollow Tube Electromagnets breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Hollow Tube Electromagnets market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hollow Tube Electromagnets.

Chapter 14 and 15, to describe Hollow Tube Electromagnets sales channel, distributors, customers, research findings and conclusion.

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