

Global Foil Wound 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 Foil Wound Electromagnets market size was valued at US\$ 192 million in 2025 and is forecast to a readjusted size of US\$ 255 million by 2032 with a CAGR of 4.2% during review period.

In 2025, global Foil Wound Electromagnets production reached approximately 1.16 M Units. The average price is approximately \$160. Foil Wound Electromagnets are electromagnetic devices and dedicated coil assemblies that use copper foil, aluminum foil, anodized aluminum strip, or another flat metallic conductor as the excitation winding to generate a controlled magnetic field under direct, alternating, or pulsed current.

Foil Wound Electromagnets represent a specialized engineering segment rather than a simple material variation of conventional electromagnets. In scientific, accelerator, microwave-tube, ion-implantation, plasma, and medical applications, precisely layered copper or aluminum foil windings can provide a high packing factor and help minimize transverse field components in compact solenoid structures. In steel handling, scrap lifting, and magnetic separation, anodized aluminum strip is used because the oxide layer on the conductor can serve as turn insulation, allowing the turns to be packed closely and exposed more effectively to cooling oil or thermally conductive encapsulation. The market therefore contains two distinct economic groups: relatively low-volume, high-value precision magnets designed around field quality and dimensional requirements, and heavier industrial magnets designed around lifting force, temperature resistance, duty cycle, mechanical impact, and lifecycle cost. These groups have materially different unit prices, customer qualification processes, sales cycles, and replacement patterns, so the market should not be modeled as a fixed percentage of the broader solenoid or industrial electromagnet industry. nd Europe contain most of the

manufacturers with explicit public evidence of foil- or strip-winding capability. US suppliers cover both precision electromagnets and suspended separation magnets, while Germany has developed a particularly visible value chain in anodized aluminum strip, finished magnetic coils, lifting magnets, and repair services. Italy is important in heavy lifting systems for steel mills, ports, and scrap yards. China has a broader electromagnetic-equipment base than the number of companies in the formal list may suggest, but public disclosure of winding materials is limited. Official and corporate materials nevertheless show a relevant cluster in Yueyang, including historical development of high-temperature lifting electromagnets using oxide-film technology and local production of oxide-film aluminum conductors. India is notable because Elektromag has publicly described an integrated route combining continuous aluminum-strip anodizing, magnet-coil winding, and complete electromagnet supply. Japanese, Korean, and Taiwanese companies identified during the search were generally retained as watchlist candidates because their public product information confirmed electromagnet manufacturing but did not confirm foil or anodized-strip windings. Structurally diverse. Steel and recycling customers are investing in safer automated material handling, higher-duty lifting systems, magnetic contaminant removal, and equipment capable of operating close to hot billets, blooms, slabs, or furnace feed. Scientific and medical demand is supported by accelerator projects, RF and vacuum-electronics systems, ion-beam equipment, plasma experiments, oncology equipment, and specialized magnetic-field test systems. However, foil and strip winding will remain one option within a broader design toolkit. Conventional wire winding remains competitive for prototypes and lower-cost magnets; hollow-conductor winding is better suited to some continuously cooled, very-high-power magnets; electro-permanent systems can reduce power consumption in selected lifting applications; and superconducting magnets dominate certain extreme-field requirements.

This report is a detailed and comprehensive analysis for global Foil Wound 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 Foil Wound Electromagnets market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Foil Wound 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 Foil Wound 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 Foil Wound 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 Foil Wound 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 Foil Wound 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 SGM Magnetics S.p.A., Dings Co. Magnetic Group, Hunan Zhongke Electric Co., Ltd., Arnold Magnetic Technologies, Stangen Industries, Inc., Magnetic Products, Inc., STEINERT Elektromagnetbau GmbH, Elektromag Devices Pvt. Ltd., Lapp GmbH, AdobA GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Foil Wound 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

Copper Foil Winding

Insulated Aluminum Foil Winding

Hybrid Copper-Aluminum Winding

Others

Market segment by Magnet Geometry and Field Function

Solenoid and Axial-Field Magnet

Dipole and Bending Magnet

Multipole and Corrector Magnet

Others

Market segment by Rated Central Magnetic Field Strength

Weak Magnetic Field Type: Rated Magnetic Field Strength ≤ 0.1 T

Medium Magnetic Field Type: Rated Magnetic Field Strength 0.1 T ≤ 1 T

Strong Magnetic Field Type: Rated Magnetic Field Strength 1 T ≤ 5 T

Ultra-Strong Magnetic Field Type: Rated Magnetic Field Strength > 5 T

Market segment by Application

Scientific Research and Nuclear Physics

Healthcare and Medical

Industrial Manufacturing

Others

Major players covered

SGM Magnetix S.p.A.

Dings Co. Magnetic Group

Hunan Zhongke Electric Co., Ltd.

Arnold Magnetic Technologies

Stangenes Industries, Inc.

Magnetic Products, Inc.

STEINERT Elektromagnetbau GmbH

Elektromag Devices Pvt. Ltd.

Lapp GmbH

AdobA GmbH

Umwelttechnik Wesselmann GmbH

Ano-Mag, Inc.

Magwell Industries

HVP High Voltage Products GmbH

Dongguan Jinhualong Electronic Materials Co., Ltd.

Yueyang Shengang Lifting Electromagnet Co., Ltd.

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 Foil Wound Electromagnets product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Foil Wound 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 Foil Wound 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 Foil Wound Electromagnets.

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

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