

# Global Magnetic Ballasts 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 Magnetic Ballasts market size was valued at US\$ 1030 million in 2025 and is forecast to a readjusted size of US\$ 1347 million by 2032 with a CAGR of 3.9% during review period.

Magnetic Ballasts are traditional lighting control devices based on the principle of electromagnetic induction, primarily used in fluorescent lamps, high-intensity discharge (HID) lamps, and certain ultraviolet lamp systems to regulate starting current and stabilize arc discharge during operation. The product typically features a rectangular or box-shaped metal enclosure. Its internal structure mainly consists of laminated silicon steel cores, copper or aluminum windings, insulation materials, impregnated resin, and terminal connectors; some models also include capacitors for power factor correction. The housing is usually made of steel or aluminum with coated or corrosion-resistant surfaces to enhance heat dissipation and durability.

Structurally, a magnetic ballast is a classic core-and-coil inductive device. By utilizing the inductance of the winding, it limits the alternating current supplied to the lamp. During startup, the ballast works together with a starter or ignitor to generate a high voltage pulse that ionizes the gas inside the lamp tube and initiates arc formation. Once the lamp is operating, the ballast controls and stabilizes the current flow, preventing excessive current that could damage the lamp. Depending on the lamp type, magnetic ballasts can be categorized into fluorescent lamp ballasts, HID lamp ballasts (such as high-pressure sodium and metal halide lamp ballasts), and specialized ultraviolet lamp ballasts.

Magnetic ballasts are widely used in industrial lighting, street and roadway lighting,

stadium lighting, commercial building illumination, and ultraviolet systems for water treatment and disinfection.

From an industry analyst perspective, the market for Magnetic Ballasts still presents certain development opportunities and driving factors. In many developing countries and emerging economies, traditional discharge lighting systems remain widely used, particularly in applications such as roadway lighting, industrial facilities, warehouses, and agricultural or aquaculture lighting. Because upgrading lighting infrastructure often requires significant capital investment, many regions continue to maintain and replace existing systems, which directly supports the replacement demand for magnetic ballasts. In addition, in some specialized applications such as ultraviolet disinfection systems, water treatment equipment, and certain industrial light-source systems, magnetic ballasts are still preferred by some equipment manufacturers due to their simple structure, high temperature resistance, strong electromagnetic interference tolerance, and stable long-term operation. Furthermore, in regions where infrastructure built in earlier decades is still in operation, existing HID lighting systems continue to require maintenance and component replacement, providing ongoing demand for magnetic ballasts. In cost-sensitive lighting systems, magnetic ballasts also retain a price advantage and relatively simple maintenance requirements compared with electronic ballasts, allowing them to remain viable in certain low-cost lighting solutions. At the same time, the market faces significant challenges, risks, and restraints. The global lighting industry has been undergoing a structural transition driven by LED technology, with a large number of traditional fluorescent and HID lighting systems being replaced by LED lighting products. This transition has led to a gradual contraction of the magnetic ballast market associated with those legacy technologies. Many countries and regions have introduced energy efficiency regulations, conservation policies, and lighting standards that increasingly restrict the use of traditional ballast technologies. For example, the European Union's Ecodesign directives and similar regulations in other regions impose higher efficiency requirements for lighting equipment, encouraging the adoption of electronic ballasts and LED drivers. Magnetic ballasts also have inherent disadvantages, including lower power factor, higher energy consumption, and larger size and weight compared with modern electronic solutions, which further limits their application in high-efficiency lighting systems. In addition, fluctuations in raw material prices such as silicon steel laminations, copper windings, and insulation materials can directly affect manufacturing costs. Increasing environmental regulations related to insulation varnishes and manufacturing processes also place additional compliance pressure on smaller manufacturers in the industry. In terms of downstream demand trends, the magnetic ballast market is gradually shifting from 'new installation demand' to 'maintenance and replacement demand'. In most

mature lighting markets, new lighting installations have largely transitioned to LED-based systems, meaning magnetic ballasts are primarily used for maintenance, replacement, and spare parts within existing fluorescent and HID lighting systems. However, in certain developing regions, areas with long infrastructure upgrade cycles, and specific industrial applications, traditional discharge lighting systems will continue to maintain a certain installed base. Examples include roadway lighting networks, high-mast lighting systems, stadium lighting, and large-scale industrial lighting facilities. At the same time, ultraviolet applications used in disinfection equipment, air purification systems, and water treatment systems continue to grow, and some UV systems still utilize magnetic ballast technology, creating niche demand for these products. Additionally, certain industrial equipment manufacturers continue to favor traditional electromagnetic ballast technology for specialized applications where reliability, durability, and electromagnetic stability are critical. As a result, the market is expected to exhibit an overall gradual decline while maintaining relatively stable demand within several specialized application segments over the coming years.

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

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

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

Global Magnetic Ballasts market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/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 Magnetic Ballasts

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 Magnetic Ballasts 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 Signify, LEDVANCE, Industrias Sola Basic, Hubbell Incorporated, Keystone Technologies, Hatch Lighting, Lighting and Power Technologies, Fulham, Venture Lighting International, GE Current, etc.

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

## **Market Segmentation**

Magnetic Ballasts 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

Preheat Start Type

Rapid Start Type

Trigger Start Type

### Market segment by Electrical Configuration

Inductive Magnetic Ballast

Autotransformer Magnetic Ballast

Leakage Transformer Ballast

Reactor Ballast

#### Market segment by Core Structure

Laminated Core Ballast

Toroidal Core Ballast

EI Core Ballast

C-Core Ballast

#### Market segment by Winding Material

Copper Winding Ballast

Aluminum Winding Ballast

Copper-Aluminum Hybrid Winding Ballast

#### Market segment by Application

Home Use

Commercial Use

Industrial Use

#### Major players covered

Signify

LEDVANCE

Industrias Sola Basic

Hubbell Incorporated

Keystone Technologies

Hatch Lighting

Lighting and Power Technologies

Fulham

Venture Lighting International

GE Current

NVC Lighting Technology Corp.

Zhejiang Yankon Group

Shenzhen Yuanjie Lighting

RS Components

E.B Horsman&Son

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 Magnetic Ballasts product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Magnetic Ballasts 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 Magnetic Ballasts 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 Magnetic Ballasts.

Chapter 14 and 15, to describe Magnetic Ballasts sales channel, distributors, customers, research findings and conclusion.

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