

# Global Magnetic Ballasts Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Magnetic Ballasts market size is expected to reach \$ 1347 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

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 studies the global Magnetic Ballasts production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Magnetic Ballasts total production and demand, 2021-2032, (K Units)

Global Magnetic Ballasts total production value, 2021-2032, (USD Million)

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

Global Magnetic Ballasts consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Magnetic Ballasts domestic production, consumption, key domestic manufacturers and share

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

Global Magnetic Ballasts production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Magnetic Ballasts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Magnetic Ballasts 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnetic Ballasts market

### **Detailed Segmentation:**

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Magnetic Ballasts Market, Segmentation by Type:

Preheat Start Type

Rapid Start Type

Trigger Start Type

### Global Magnetic Ballasts Market, Segmentation by Electrical Configuration:

Inductive Magnetic Ballast

Autotransformer Magnetic Ballast

Leakage Transformer Ballast

Reactor Ballast

### Global Magnetic Ballasts Market, Segmentation by Core Structure:

Laminated Core Ballast

Toroidal Core Ballast

EI Core Ballast

C-Core Ballast

### Global Magnetic Ballasts Market, Segmentation by Winding Material:

Copper Winding Ballast

Aluminum Winding Ballast

Copper-Aluminum Hybrid Winding Ballast

## Global Magnetic Ballasts Market, Segmentation by Application:

Home Use

Commercial Use

Industrial Use

## Companies Profiled:

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

**Key Questions Answered:**

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

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