

Global Industrial Magnetrons Market 2024

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Abstracts

The industrial magnetron market comprises diodes that feature a cylindrical cathode implanted coaxially in the cylindrical anode, which has a series of resonant cavities generating sluggish wave structures. The electrons emitted by the cathode generate microwave energy as they whirl past the resonating cavities at high speeds. The growth of the industrial magnetron market is driven by the increasing use of microwaves in various commercial and industrial applications. With the strengthening of global economies, disposable incomes have increased, resulting in more commercial food outlets and a higher demand for commercial microwaves. Additionally, growing defense expenditure is also contributing to market growth, with most of the expenditure going towards armament purchases and RADAR development for air defense, surveillance, navigation, and search and rescue operations. Magnetrons are an essential component in RADAR systems, leading to increased demand in the defense sector.

The global industrial magnetron market is dominated by magnetrons with an output of over 1 KW but under 2 KW. This range of magnetrons is primarily used in commercial microwaves and is sold by the majority of manufacturers and suppliers in the market. Furthermore, every frequency of magnetron is manufactured for this power output range, unlike other ranges.

The heating and drying market, which is the most common application of a magnetron, is estimated to be worth USD 139 million in 2023, and it is expected to reach USD 181 million by 2029, registering a CAGR of 3.8% during the forecast period. Many industries, such as food processing, chemical, lumber, rubber, and medical, have been using microwaves for heating and drying applications for years.

The Asia-Pacific industrial magnetron market is estimated to be worth USD 181 million in 2023, and it is expected to reach USD 240 million by 2029, registering a CAGR of 4.1% during the forecast period. The demand for industrial magnetrons varies across

regions, with Asia-Pacific being the largest and fastest-growing market. Countries such as China, Japan, and South Korea have some of the leading microwave manufacturers in the region, and due to the presence of dominant end-users such as the food processing industry, semiconductors, chemicals, and automotive, the demand for industrial microwaves is high, leading to increased demand for magnetrons.

This comprehensive industry report provides market estimates and forecasts, accompanied by a detailed examination of the application, output, and region aspects. It delivers a quantitative analysis of the market, empowering stakeholders to leverage existing market opportunities. Furthermore, the report identifies key segments for potential opportunities and strategies, drawing insights from market trends and the approaches of leading competitors.

The global baby bottle market has been extensively analyzed by categorizing it according to various sub-segments in order to provide accurate forecasts of industry size and assess trends within specific areas.

The global market for industrial magnetrons can be segmented by application: heating & drying, commercial oven, semiconductor devices, UV curing, others. Heating & drying held the highest share in the global industrial magnetrons market. However, the UV curing segment is forecast to register the highest CAGR during the forecast period 2024 %li%2030.

Industrial magnetrons market is further segmented by output: 1 KW-2 KW, 2 KW %li%5 KW, 5 KW %li%15 KW. 1 KW-2 KW held the highest share in the global industrial magnetrons market. However, the 5 KW %li%15 KW segment is forecast to register the highest CAGR during the forecast period 2024 %li%2030.

Based on region, the industrial magnetrons market is segmented into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. Asia-Pacific held the largest share in the global industrial magnetrons market, accounting for 37.4% of the market in 2023. Moreover, the region is anticipated to grow at the highest CAGR in the coming years.

The report also provides analysis of the key companies of the industry and their detailed company profiles including LG Corporation, Toshiba Corporation, Richardson Electronics, Ltd., Hitachi, Ltd., Panasonic Corporation, Wave Power Technology Inc., Guoguang Electric Co., Ltd., L3Harris Technologies, Inc., The Western Electric Company, among others. In this report, key players and their strategies are thoroughly

analyzed to understand the competitive outlook of the market.

Why Choose This Report

Gain a reliable outlook of the global industrial magnetrons market forecasts from 2024 to 2030 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

Market Segments Covered in Global Industrial Magnetrons Industry Analysis:

i.) Application

Heating & drying

Commercial oven

Semiconductor devices

UV curing

Others

ii.) Output

1 KW-2 KW

2 KW %li%5 KW

5 KW %li%15 KW

iii.) Region

North America

Europe

Asia-Pacific

MEA (Middle East and Africa)

Latin America

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