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Global Electric Resistance Radiant Tube Heaters Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G05D20604077EN.html
Date: June 2026
Pages: 137
Price: US$ 3,480.00 (Single User License)
ID: G05D20604077EN

Abstracts

According to our (Global Info Research) latest study, the global Electric Resistance Radiant Tube Heaters market size was valued at US$ 182 million in 2025 and is forecast to a readjusted size of US$ 252 million by 2032 with a CAGR of 4.8% during review period.

Electric resistance radiant tube heaters are a type of indirect electric heating component used in industrial furnaces, heat treatment furnaces, atmosphere furnaces, industrial ovens and process heating equipment. Their core structure typically consists of a resistance heating element, ceramic supports, a metal or ceramic radiant/protection tube, terminal connection structure, mounting flange and necessary temperature control and insulation accessories. The product generates heat by energizing heating wires, resistance strips, rod-shaped heating elements, bayonet heating elements, bundle rod heating elements or cage-type heating elements, and then releases radiant heat to the furnace chamber, workpiece or heated space through the external radiant tube, thereby isolating the heating element from furnace atmospheres, carburizing media, corrosive gases and contamination sources from the workpiece. Key performance indicators include operating temperature, power per unit, surface load, sheath material, oxidation and carburization resistance, temperature uniformity, insulation resistance, cold resistance tolerance, maintainability and service life. These products are mainly used in carburizing, carbonitriding, bright annealing, normalizing, quenching, tempering, aluminum alloy heat treatment, continuous steel strip heat treatment, industrial drying and curing, and electrification retrofit of gas-fired furnaces. In 2025, global production of electric resistance radiant tube heaters reached 247,000 units, with an average selling price of USD 716 per unit.

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The industry nature of electric resistance radiant tube heaters is not ordinary electric heating tubes, but industrial furnace indirect electric heating and high-temperature furnace heating components. Typical products include bayonet heaters, bundle rod heaters, squirrel-cage radiant tube heaters, edge-wound ribbon heaters and customized tubular radiant heating assemblies. Compared with gas-fired radiant tube heaters, electric resistance solutions do not rely on burners or gas pipelines, making them more suitable for atmosphere-controlled heating, clean heating, low-noise operation, low local emissions and convenient maintenance. Compared with ordinary electric heating tubes, they place greater emphasis on isolating the heating element from the furnace atmosphere, improving radiant heat transfer efficiency, maintaining long-term high-temperature strength and extending sheath material service life.

From the supply structure perspective, the global market features a structure of a small number of high-end material and industrial furnace technology suppliers, combined with multiple regional small and medium-sized non-standard customization manufacturers. European and U.S. companies such as Kanthal, NOXMAT, SECO/WARWICK and Surface Combustion have strong brand and technical foundations in high-temperature materials, long-life heating elements, industrial furnace retrofits, process heating and spare parts services. Japanese companies are more specialized in industrial furnace heating elements and modular heaters. Chinese and Indian suppliers are larger in number and cover electric radiant tubes, bundle rod heaters, squirrel-cage electric radiant tubes and non-standard customized products, but they vary significantly in company scale, export capability and the strength of official evidence.

From the demand structure perspective, heat treatment, steel and strip processing, aluminum and non-ferrous metal processing, industrial ovens, and atmosphere furnace maintenance and replacement are the main demand sources at present. Growth in this market is steady rather than explosive, driven mainly by two factors: demand for spare parts replacement and process reliability in the installed base of industrial furnaces, and structural incremental demand brought by carbon reduction, electrification and conversion from gas-fired furnaces to electric heating. Single-line capacity is typically 800–3,000 units per year per assembly line, depending on power, length, material and degree of customization. Industry gross margin is generally 20%–40%, with high-end FeCrAl or ceramic-sheathed products, long-life bayonet heaters and ERT retrofit components generating higher margins than standardized Chinese and Indian products.

From the product roadmap perspective, future competition will gradually shift from price and delivery time alone toward material lifetime, power density, energy efficiency, maintainability, temperature uniformity and compatibility with electrification retrofits.

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FeCrAl high-temperature alloys, heat-resistant stainless steel, centrifugal-cast heat-resistant alloys, SiC and ceramic tubes, and improved ceramic supports remain key directions for material upgrades. Bayonet and bundle rod structures will continue to be widely used in heat treatment furnaces due to their maintenance convenience and replacement efficiency. ERT and gas-to-electric furnace retrofit solutions also have medium- to long-term opportunities in decarbonization investment by European and U.S. customers. However, the industry also faces substitution or project delay risks from induction heating, high-efficiency gas or hydrogen combustion, overall furnace upgrades and customer capital expenditure cycles. Therefore, this market is better understood through a combined logic of high-end stable spare parts, regional non-standard customization and incremental demand from electrification retrofits, rather than being simply classified as part of the general electric heater sector.

This report is a detailed and comprehensive analysis for global Electric Resistance Radiant Tube Heaters 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 Electric Resistance Radiant Tube Heaters market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Electric Resistance Radiant Tube Heaters 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 Electric Resistance Radiant Tube Heaters 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 Electric Resistance Radiant Tube Heaters market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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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 Electric Resistance Radiant Tube Heaters

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 Electric Resistance Radiant Tube Heaters 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 Alleima AB (Kanthal), NOXMAT GmbH, SECO/WARWICK S.A., Surface Combustion, Inc., Industrial Furnace Interiors, Inc. (US Element), CRC Progetti S.r.l., VOLTON Manufacturers and Distributors, Prolific Heating International Co., Ltd., YAC DENKO Co., Ltd., Shutech Co., Ltd., etc.

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

Market Segmentation

Electric Resistance Radiant Tube Heaters 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

Bayonet/?Cartridge-in-Tube Heater

Bundle Rod Heater

Cage/?Squirrel-cage Radiant Tube Heater

Edge-wound Ribbon Heater

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Others

Market segment by Radiant Tube Material

FeCrAl Alloy Tube

Wrought NiCr/Heat-resistant Stainless Steel Tube

Centrifugal-cast Heat-resistant Alloy Tube

Ceramic/?SiC/?Sialon Tube

Others

Market segment by Process Use Case

Metal Parts Heat Treatment

Continuous Annealing and Galvanizing Lines for Steel Strip

Non-ferrous Metal Heating and Holding

Industrial Ovens, Drying and Curing

Others

Market segment by Application

Automotive and Transportation Equipment

Steel and Metal Processing

Machinery Manufacturing and Industrial Equipment

Aerospace, Defense and High-end Equipment

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Others

Major players covered

Alleima AB (Kanthal)

NOXMAT GmbH

SECO/WARWICK S.A.

Surface Combustion, Inc.

Industrial Furnace Interiors, Inc. (US Element)

CRC Progetti S.r.l.

VOLTON Manufacturers and Distributors

Prolific Heating International Co., Ltd.

YAC DENKO Co., Ltd.

Shutech Co., Ltd.

NPR-RIKEN HEAT TECHNO CORPORATION

DHE Heaters Pvt. Ltd.

FURNATEMP METATEK INDIA PRIVATE LIMITED

Subhot Enterprises Pvt. Ltd.

Tempsens Instruments (I) Pvt. Ltd.

Yancheng Hongtai Alloy Electric Apparatus Co., Ltd.

Shanghai Tankii Alloy Material Co., Ltd.

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Hangzhou Measurement Automation Equipment 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 Electric Resistance Radiant Tube Heaters product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electric Resistance Radiant Tube Heaters, with price, sales quantity, revenue, and global market share of Electric Resistance Radiant Tube Heaters from 2021 to 2026.

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

Chapter 4, the Electric Resistance Radiant Tube Heaters 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

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Electric Resistance Radiant Tube Heaters 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 Electric Resistance Radiant Tube Heaters.

Chapter 14 and 15, to describe Electric Resistance Radiant Tube Heaters sales channel, distributors, customers, research findings and conclusion.

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