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Global Electric Resistance Radiant Tube Heaters Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Resistance Radiant Tube Heaters market size is expected to reach $ 252 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

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.

The industry nature of electric resistance radiant tube heaters is not ordinary electric heating tubes, but industrial furnace indirect electric heating and high-temperature

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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. FeCrAl high-temperature alloys, heat-resistant stainless steel, centrifugal-cast heat-resistant alloys, SiC and ceramic tubes, and improved ceramic supports remain key

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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 studies the global Electric Resistance Radiant Tube Heaters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Resistance Radiant Tube Heaters 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 Electric Resistance Radiant Tube Heaters that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Electric Resistance Radiant Tube Heaters total production and demand, 2021-2032, (K Units)
Global Electric Resistance Radiant Tube Heaters total production value, 2021-2032, (USD Million)
Global Electric Resistance Radiant Tube Heaters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Electric Resistance Radiant Tube Heaters consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Electric Resistance Radiant Tube Heaters domestic production, consumption, key domestic manufacturers and share
Global Electric Resistance Radiant Tube Heaters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Electric Resistance Radiant Tube Heaters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Electric Resistance Radiant Tube Heaters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Electric Resistance Radiant Tube Heaters 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Electric Resistance Radiant Tube Heaters market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/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 Electric Resistance Radiant Tube Heaters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Electric Resistance Radiant Tube Heaters Market, Segmentation by Type:

Bayonet/?Cartridge-in-Tube Heater

Bundle Rod Heater

Cage/?Squirrel-cage Radiant Tube Heater

Edge-wound Ribbon Heater

Others

Global Electric Resistance Radiant Tube Heaters Market, Segmentation 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

Global Electric Resistance Radiant Tube Heaters Market, Segmentation by Process Use Case:

Metal Parts Heat Treatment

Continuous Annealing and Galvanizing Lines for Steel Strip

Non-ferrous Metal Heating and Holding

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Industrial Ovens, Drying and Curing

Others

Global Electric Resistance Radiant Tube Heaters Market, Segmentation by Application:

Automotive and Transportation Equipment

Steel and Metal Processing

Machinery Manufacturing and Industrial Equipment

Aerospace, Defense and High-end Equipment

Others

Companies Profiled:

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.

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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.

Hangzhou Measurement Automation Equipment Co., Ltd.

Key Questions Answered:
1. How big is the global Electric Resistance Radiant Tube Heaters market?
2. What is the demand of the global Electric Resistance Radiant Tube Heaters market?
3. What is the year over year growth of the global Electric Resistance Radiant Tube Heaters market?
4. What is the production and production value of the global Electric Resistance Radiant Tube Heaters market?
5. Who are the key producers in the global Electric Resistance Radiant Tube Heaters market?
6. What are the growth factors driving the market demand?

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