

Global X-ray Tube Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global X-ray Tube market size was valued at US\$ 1764 million in 2024 and is forecast to a readjusted size of USD 2630 million by 2031 with a CAGR of 5.9% during review period.

An X-ray tube is a device encased in glass (or ceramic) with a positive electrode (anode) and a negative electrode (cathode) and emptied under ultra-high vacuum conditions. The cathode possesses a filament that emits electrons. When a voltage is established between the anode and the cathode (i.e., the tube voltage), the electrons produced by the cathode are attracted to the anode, accelerating their speed. These flowing electrons are concentrated into a single beam under the action of a device called a 'cylinder' or 'focusing cylinder'. When the accelerated electrons collide with a target on the anode, part of their energy is converted into X-rays, or X-rays. According to different uses, it can be divided into medical X-ray tubes and industrial X-ray tubes.

The global key manufacturers of X-ray Tube include Varex Imaging, Canon Electron Tubes & Devices and IAE, etc, top 3 manufacturers hold a share approximately 37%. Varex Imaging is the world's largest X-ray Tube manufacturer, with a market share of more than 22%. North America, Europe and China are the major X-ray Tube market, they have a market share of more than 79%. North America is the largest market with a share of 37%. In terms of product type, Hot Cathode X-ray Tube is the largest market segment with a share of more than 96%. In terms of applications, Medical is the largest downstream segment, with a market share of about 78%.

This report is a detailed and comprehensive analysis for global X-ray Tube 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 X-ray Tube market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global X-ray Tube market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global X-ray Tube market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global X-ray Tube market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 X-ray Tube

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 X-ray Tube 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 Varex Imaging, Canon Electron Tubes & Devices, IAE, Dunlee, Siemens, Comet Technologies, Hangzhou Wandong, Kailong, Gulmay, Keyway Electron, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

X-ray Tube market is split by Type and by Application. For the period 2020-2031, 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

Hot Cathode X-ray Tube

Cold Cathode X-ray Tube

Market segment by Application

Medical

Industrial

Major players covered

Varex Imaging

Canon Electron Tubes & Devices

IAE

Dunlee

Siemens

Comet Technologies

Hangzhou Wandong

Kailong

Gulmay

Keyway Electron

Oxford Instruments

Sandt

Vatech

GE

Ronghua

VSI

Micro-X

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 X-ray Tube product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of X-ray Tube, with price, sales quantity, revenue, and global market share of X-ray Tube from 2020 to 2025.

Chapter 3, the X-ray Tube competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the X-ray Tube breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and X-ray Tube market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 X-ray Tube.

Chapter 14 and 15, to describe X-ray Tube sales channel, distributors, customers, research findings and conclusion.

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