

# Global Electron Gun High-Voltage Power Supply Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Electron Gun High-Voltage Power Supply market size is expected to reach \$ 823 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2024, global sales of Electron Gun High-Voltage Power Supply reached approximately 16,000 units, with an average market price of about USD 38,000 per unit, an annual production capacity of roughly 19,000 units, and an industry-average gross margin of approximately 35%.

An Electron Gun High-Voltage Power Supply is a specialized high-voltage DC source designed to deliver precise, ultra-stable voltage?typically from several kilovolts up to 60?150 kV?to an electron gun, thereby establishing the accelerating field between cathode and anode and accurately controlling beam energy and current. Unlike general-purpose high-voltage supplies, these units demand extremely low ripple and high stability, and often provide multiple outputs for the acceleration electrode, focus/suppressor electrodes, and filament; in many commercial designs, the acceleration, filament, focus and deflection supplies are integrated in a single chassis tailored to specific electron-gun configurations. They are used in electron-beam welding and additive systems, electron microscopes, e-beam exposure and lithography tools, X-ray sources, microwave vacuum tubes, and particle accelerators, forming one of the key determinants of performance and reliability for electron-beam systems.

On the upstream side, electron-gun high-voltage power supplies depend on specialized vendors of high-voltage transformers and magnetics, power semiconductors, insulation materials and vacuum feedthroughs, precision dividers and sensing components, and control electronics such as FPGA/MCU boards, with some manufacturers also developing proprietary HV modules and isolated communication interfaces to meet insulation and safety requirements at tens of kilovolts. In the midstream, a relatively small group of high-voltage and e-beam equipment companies handle system-level

design, assembly and testing, supplying complete racks, OEM modules or fully customized solutions to makers of electron-beam welders, microscopes, accelerators, and X-ray/microwave devices. Downstream demand is driven by semiconductor and display manufacturing, precision welding and additive manufacturing, life-science and materials analysis, medical imaging, and accelerator facilities, where these power supplies are purchased as capital equipment: consumption appears mainly as new installations linked to fab/tool build-outs and replacement/upgrade over an 8-12-year life cycle, making the segment highly sensitive to downstream capex cycles and industry sentiment.

This report studies the global Electron Gun High-Voltage Power Supply production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electron Gun High-Voltage Power Supply 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 Electron Gun High-Voltage Power Supply that contribute to its increasing demand across many markets.

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

Global Electron Gun High-Voltage Power Supply total production and demand, 2021-2032, (Units)

Global Electron Gun High-Voltage Power Supply total production value, 2021-2032, (USD Million)

Global Electron Gun High-Voltage Power Supply production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electron Gun High-Voltage Power Supply consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electron Gun High-Voltage Power Supply domestic production, consumption, key domestic manufacturers and share

Global Electron Gun High-Voltage Power Supply production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electron Gun High-Voltage Power Supply production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electron Gun High-Voltage Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electron Gun High-Voltage Power Supply 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 Excelitas, ULVAC EQUIPMENT, Spellman, Advanced Energy, MATSUSADA PRECISION, Teslaman Tech, Wiseman,

Dongwen High Voltage, Tianjin Mingruichuang Technology, Xi'an Zhaofu Electronics, 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 Electron Gun High-Voltage Power Supply market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Electron Gun High-Voltage Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electron Gun High-Voltage Power Supply Market, Segmentation by Type:

HVDC

HPP

Global Electron Gun High-Voltage Power Supply Market, Segmentation by Installation:

Rack-mounted

Modular

### Global Electron Gun High-Voltage Power Supply Market, Segmentation by Application:

Electron Microscope

X-ray Source

Others

### Companies Profiled:

Excelitas

ULVAC EQUIPMENT

Spellman

Advanced Energy

MATSUSADA PRECISION

Teslaman Tech

Wiseman

Dongwen High Voltage

Tianjin Mingruichuang Technology

Xi'an Zhaofu Electronics

Xunlei Cloud

Shenzhen Siweite

Beijing Quanta

Jinyake Electric

**Key Questions Answered:**

1. How big is the global Electron Gun High-Voltage Power Supply market?
2. What is the demand of the global Electron Gun High-Voltage Power Supply market?
3. What is the year over year growth of the global Electron Gun High-Voltage Power Supply market?
4. What is the production and production value of the global Electron Gun High-Voltage Power Supply market?
5. Who are the key producers in the global Electron Gun High-Voltage Power Supply market?
6. What are the growth factors driving the market demand?

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