

Global E-Gun Modulators Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4BD27B56BF7EN.html>

Date: August 2026

Pages: 123

Price: US\$ 4,480.00 (Single User License)

ID: G4BD27B56BF7EN

Abstracts

The global E-Gun Modulators market size is expected to reach \$ 64.39 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global E-Gun Modulators production reached approximately 680 Units. The average price is approximately \$63,000. E-Gun Modulators are specialized high-voltage power-electronic systems used to generate, regulate and synchronize electron-emission pulses from thermionic diode or triode electron guns.

E-Gun Modulators and drivers constitute a small but technically critical segment of the accelerator power-electronics industry. Their function extends well beyond generating a high-voltage pulse: they must coordinate cathode bias, grid drive and cut-off voltage, filament or heater power, external triggering, pulse-shape feedback and machine-protection interlocks while operating across substantial high-voltage isolation barriers. Performance is judged by rise and fall time, pulse flatness, pulse-to-pulse repeatability, timing jitter, electromagnetic immunity and the ability to survive electron-gun arcs or abnormal loads. Industry terminology is fragmented. Commercial medical and security-linac suppliers may use 'electron gun driver' or 'injector control assembly,' while research facilities often specify 'gun pulser,' 'cathode pulser' or 'grid pulser.' The broad supplier pool therefore contains dedicated modulator OEMs, electron-gun system suppliers, accelerator manufacturers with captive driver designs and research institutions that have built one-off systems. The formal competitive market is materially smaller: only companies with evidence of recurring commercial supply, a current dedicated product, or a credible custom-manufacturing capability are included in the core list.

The global supply structure is concentrated by capability rather than by company size.

North America has the broadest commercial ecosystem, spanning standardized multi-output triode drivers, solid-state Marx modulators, laboratory electron-gun power systems and high-current custom pulsers. Europe's strongest positions are in standardized solid-state modulators and fast scientific gun pulsers, led by suppliers in Sweden and the United Kingdom. Japan retains substantial know-how in custom Marx generators and high-speed high-voltage pulse supplies. China has fewer independently verified merchant suppliers, but its position is changing as domestic firms participate in national accelerator projects and medical-linac development. Beijing Dayou Keneng has disclosed its involvement in the HEPS modulator and electron-gun pulse-power project, while Jiangsu Haiming holds patents covering an independently controlled grid-driven electron-gun modulator for medical linacs. In this market, publicly reported corporate revenue is a weak indicator of competitive strength. Installed-base experience, proven protection against gun arcing, long-term OEM qualification, waveform stability and the ability to customize interfaces and timing are more important than total company scale.

Demand is supported by a combination of recurring medical and security applications and lower-volume, higher-value scientific projects. Clinical linacs have become the most widely used radiation source in modern radiotherapy, while international programmes continue to expand access to radiotherapy infrastructure in underserved markets. Electron-beam accelerators are also used in medical-device sterilization, polymer modification, surface treatment, food irradiation and industrial inspection. Scientific demand comes from synchrotron injectors, free-electron lasers, pulse-radiolysis facilities, beam-diagnostic systems and other high-energy-physics infrastructure. These projects typically require lower timing jitter, more flexible bunch patterns and greater remote-diagnostic capability than conventional industrial systems. Nevertheless, accelerator shipments cannot be converted directly into modulator-market revenue. Some linacs use a shared high-voltage modulator for both the RF source and the electron gun, while others integrate the electron-gun driver within a beam-centerline or source subsystem. The appropriate revenue model must therefore include merchant equipment sales and the equivalent value of captive driver assemblies, while allocating only the portion attributable to electron-gun control.

Technology development is moving toward solid-state switching, modular architecture, digital closed-loop control and stronger high-voltage isolation. IGBT and MOSFET stacks, solid-state Marx generators and fiber-optic control links are displacing some legacy pulse-forming networks, vacuum switches and analog control circuits. The differentiating capability is increasingly the ability to program pulse amplitude, width, delay and repetition pattern from pulse to pulse, while providing predictive diagnostics and rapid fault localization. The market should continue to grow at a mid-single-digit

rate, but two structural substitution risks limit the long-term upside. First, accelerator OEMs are integrating the gun driver with the main modulator, RF chain and beamline, reducing the independently addressable equipment value. Second, RF-modulated thermionic guns, RF guns and photocathode injectors can eliminate or substantially alter the conventional high-voltage gun-modulator architecture in selected new systems. Future competition will therefore be shaped by reliability records, embedded OEM relationships, semiconductor-switch control algorithms, application-specific engineering and local service capability rather than by high-volume price competition.

This report studies the global E-Gun Modulators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for E-Gun Modulators 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 E-Gun Modulators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global E-Gun Modulators total production and demand, 2021-2032, (Units)

Global E-Gun Modulators total production value, 2021-2032, (USD Million)

Global E-Gun Modulators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global E-Gun Modulators consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: E-Gun Modulators domestic production, consumption, key domestic manufacturers and share

Global E-Gun Modulators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global E-Gun Modulators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global E-Gun Modulators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global E-Gun Modulators 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 Nodica Group AB, Stangenæs Industries, Spellman High Voltage Electronics Corporation, Teledyne Technologies Incorporated,

Varex Imaging Corporation, Kentech Instruments Limited, Beijing Dayou Keneng Keji Co., Ltd., Pulsed Power Japan Laboratory Ltd., Eagle Harbor Technologies, Inc., Ness Engineering, Inc., 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 E-Gun Modulators 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 E-Gun Modulators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global E-Gun Modulators Market, Segmentation by Type:

Diode Cathode-Pulsed Gun

Triode Grid-Controlled Gun

Multi-Electrode or Custom Gun

Others

Global E-Gun Modulators Market, Segmentation by Primary Pulse-Width Regime:

Sub-Nanosecond Pulsers

Nanosecond Pulsers

Microsecond Pulsers

Others

Global E-Gun Modulators Market, Segmentation by Output Voltage:

Low-Voltage Range: ≤ 30 kV

Medium-Voltage Range: 30 kV $\leq$ 100 kV

High-Voltage Range: >100 kV

Global E-Gun Modulators Market, Segmentation by Application:

Healthcare

Industrial Inspection and Security Screening

Radiation Processing and Sterilization

Others

Companies Profiled:

Nodica Group AB

Stangenes Industries

Spellman High Voltage Electronics Corporation

Teledyne Technologies Incorporated

Varex Imaging Corporation

Kentech Instruments Limited

Beijing Dayou Keneng Keji Co., Ltd.

Pulsed Power Japan Laboratory Ltd.

Eagle Harbor Technologies, Inc.

Ness Engineering, Inc.

Kimball Physics, Inc.

Matsusada Precision

OSI Systems, Inc. ? Rapiscan

VITZRO TECH Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 E-Gun Modulators Introduction
- 1.2 World E-Gun Modulators Supply & Forecast
 - 1.2.1 World E-Gun Modulators Production Value (2021 & 2025 & 2032)
 - 1.2.2 World E-Gun Modulators Production (2021-2032)
 - 1.2.3 World E-Gun Modulators Pricing Trends (2021-2032)
- 1.3 World E-Gun Modulators Production by Region (Based on Production Site)
 - 1.3.1 World E-Gun Modulators Production Value by Region (2021-2032)
 - 1.3.2 World E-Gun Modulators Production by Region (2021-2032)
 - 1.3.3 World E-Gun Modulators Average Price by Region (2021-2032)
 - 1.3.4 North America E-Gun Modulators Production (2021-2032)
 - 1.3.5 Europe E-Gun Modulators Production (2021-2032)
 - 1.3.6 China E-Gun Modulators Production (2021-2032)
 - 1.3.7 Japan E-Gun Modulators Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 E-Gun Modulators Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 E-Gun Modulators Major Market Trends

2 DEMAND SUMMARY

- 2.1 World E-Gun Modulators Demand (2021-2032)
- 2.2 World E-Gun Modulators Consumption by Region
 - 2.2.1 World E-Gun Modulators Consumption by Region (2021-2026)
 - 2.2.2 World E-Gun Modulators Consumption Forecast by Region (2027-2032)
- 2.3 United States E-Gun Modulators Consumption (2021-2032)
- 2.4 China E-Gun Modulators Consumption (2021-2032)
- 2.5 Europe E-Gun Modulators Consumption (2021-2032)
- 2.6 Japan E-Gun Modulators Consumption (2021-2032)
- 2.7 South Korea E-Gun Modulators Consumption (2021-2032)
- 2.8 ASEAN E-Gun Modulators Consumption (2021-2032)
- 2.9 India E-Gun Modulators Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World E-Gun Modulators Production Value by Manufacturer (2021-2026)

- 3.2 World E-Gun Modulators Production by Manufacturer (2021-2026)
- 3.3 World E-Gun Modulators Average Price by Manufacturer (2021-2026)
- 3.4 E-Gun Modulators Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global E-Gun Modulators Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for E-Gun Modulators in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for E-Gun Modulators in 2025
- 3.6 E-Gun Modulators Market: Overall Company Footprint Analysis
 - 3.6.1 E-Gun Modulators Market: Region Footprint
 - 3.6.2 E-Gun Modulators Market: Company Product Type Footprint
 - 3.6.3 E-Gun Modulators Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: E-Gun Modulators Production Value Comparison
 - 4.1.1 United States VS China: E-Gun Modulators Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: E-Gun Modulators Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: E-Gun Modulators Production Comparison
 - 4.2.1 United States VS China: E-Gun Modulators Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: E-Gun Modulators Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: E-Gun Modulators Consumption Comparison
 - 4.3.1 United States VS China: E-Gun Modulators Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: E-Gun Modulators Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based E-Gun Modulators Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based E-Gun Modulators Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers E-Gun Modulators Production Value (2021-2026)

4.4.3 United States Based Manufacturers E-Gun Modulators Production (2021-2026)

4.5 China Based E-Gun Modulators Manufacturers and Market Share

4.5.1 China Based E-Gun Modulators Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers E-Gun Modulators Production Value (2021-2026)

4.5.3 China Based Manufacturers E-Gun Modulators Production (2021-2026)

4.6 Rest of World Based E-Gun Modulators Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based E-Gun Modulators Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers E-Gun Modulators Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers E-Gun Modulators Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World E-Gun Modulators Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Diode Cathode-Pulsed Gun

5.2.2 Triode Grid-Controlled Gun

5.2.3 Multi-Electrode or Custom Gun

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World E-Gun Modulators Production by Type (2021-2032)

5.3.2 World E-Gun Modulators Production Value by Type (2021-2032)

5.3.3 World E-Gun Modulators Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRIMARY PULSE-WIDTH REGIME

6.1 World E-Gun Modulators Market Size Overview by Primary Pulse-Width Regime: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Primary Pulse-Width Regime

6.2.1 Sub-Nanosecond Pulsers

6.2.2 Nanosecond Pulsers

6.2.3 Microsecond Pulsers

6.2.4 Others

6.3 Market Segment by Primary Pulse-Width Regime

6.3.1 World E-Gun Modulators Production by Primary Pulse-Width Regime (2021-2032)

6.3.2 World E-Gun Modulators Production Value by Primary Pulse-Width Regime (2021-2032)

6.3.3 World E-Gun Modulators Average Price by Primary Pulse-Width Regime (2021-2032)

7 MARKET ANALYSIS BY OUTPUT VOLTAGE

7.1 World E-Gun Modulators Market Size Overview by Output Voltage: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Output Voltage

7.2.1 Low-Voltage Range: ≤ 30 kV

7.2.2 Medium-Voltage Range: 30 kV $\leq$ 100 kV

7.2.3 High-Voltage Range: >100 kV

7.3 Market Segment by Output Voltage

7.3.1 World E-Gun Modulators Production by Output Voltage (2021-2032)

7.3.2 World E-Gun Modulators Production Value by Output Voltage (2021-2032)

7.3.3 World E-Gun Modulators Average Price by Output Voltage (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World E-Gun Modulators Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Healthcare

8.2.2 Industrial Inspection and Security Screening

8.2.3 Radiation Processing and Sterilization

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World E-Gun Modulators Production by Application (2021-2032)

8.3.2 World E-Gun Modulators Production Value by Application (2021-2032)

8.3.3 World E-Gun Modulators Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nodica Group AB

9.1.1 Nodica Group AB Details

9.1.2 Nodica Group AB Major Business

- 9.1.3 Nodica Group AB E-Gun Modulators Product and Services
- 9.1.4 Nodica Group AB E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Nodica Group AB Recent Developments/Updates
- 9.1.6 Nodica Group AB Competitive Strengths & Weaknesses
- 9.2 Stangenes Industries
 - 9.2.1 Stangenes Industries Details
 - 9.2.2 Stangenes Industries Major Business
 - 9.2.3 Stangenes Industries E-Gun Modulators Product and Services
 - 9.2.4 Stangenes Industries E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Stangenes Industries Recent Developments/Updates
 - 9.2.6 Stangenes Industries Competitive Strengths & Weaknesses
- 9.3 Spellman High Voltage Electronics Corporation
 - 9.3.1 Spellman High Voltage Electronics Corporation Details
 - 9.3.2 Spellman High Voltage Electronics Corporation Major Business
 - 9.3.3 Spellman High Voltage Electronics Corporation E-Gun Modulators Product and Services
 - 9.3.4 Spellman High Voltage Electronics Corporation E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Spellman High Voltage Electronics Corporation Recent Developments/Updates
 - 9.3.6 Spellman High Voltage Electronics Corporation Competitive Strengths & Weaknesses
- 9.4 Teledyne Technologies Incorporated
 - 9.4.1 Teledyne Technologies Incorporated Details
 - 9.4.2 Teledyne Technologies Incorporated Major Business
 - 9.4.3 Teledyne Technologies Incorporated E-Gun Modulators Product and Services
 - 9.4.4 Teledyne Technologies Incorporated E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Teledyne Technologies Incorporated Recent Developments/Updates
 - 9.4.6 Teledyne Technologies Incorporated Competitive Strengths & Weaknesses
- 9.5 Varex Imaging Corporation
 - 9.5.1 Varex Imaging Corporation Details
 - 9.5.2 Varex Imaging Corporation Major Business
 - 9.5.3 Varex Imaging Corporation E-Gun Modulators Product and Services
 - 9.5.4 Varex Imaging Corporation E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Varex Imaging Corporation Recent Developments/Updates
 - 9.5.6 Varex Imaging Corporation Competitive Strengths & Weaknesses

9.6 Kentech Instruments Limited

9.6.1 Kentech Instruments Limited Details

9.6.2 Kentech Instruments Limited Major Business

9.6.3 Kentech Instruments Limited E-Gun Modulators Product and Services

9.6.4 Kentech Instruments Limited E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Kentech Instruments Limited Recent Developments/Updates

9.6.6 Kentech Instruments Limited Competitive Strengths & Weaknesses

9.7 Beijing Dayou Keneng Keji Co., Ltd.

9.7.1 Beijing Dayou Keneng Keji Co., Ltd. Details

9.7.2 Beijing Dayou Keneng Keji Co., Ltd. Major Business

9.7.3 Beijing Dayou Keneng Keji Co., Ltd. E-Gun Modulators Product and Services

9.7.4 Beijing Dayou Keneng Keji Co., Ltd. E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Beijing Dayou Keneng Keji Co., Ltd. Recent Developments/Updates

9.7.6 Beijing Dayou Keneng Keji Co., Ltd. Competitive Strengths & Weaknesses

9.8 Pulsed Power Japan Laboratory Ltd.

9.8.1 Pulsed Power Japan Laboratory Ltd. Details

9.8.2 Pulsed Power Japan Laboratory Ltd. Major Business

9.8.3 Pulsed Power Japan Laboratory Ltd. E-Gun Modulators Product and Services

9.8.4 Pulsed Power Japan Laboratory Ltd. E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Pulsed Power Japan Laboratory Ltd. Recent Developments/Updates

9.8.6 Pulsed Power Japan Laboratory Ltd. Competitive Strengths & Weaknesses

9.9 Eagle Harbor Technologies, Inc.

9.9.1 Eagle Harbor Technologies, Inc. Details

9.9.2 Eagle Harbor Technologies, Inc. Major Business

9.9.3 Eagle Harbor Technologies, Inc. E-Gun Modulators Product and Services

9.9.4 Eagle Harbor Technologies, Inc. E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Eagle Harbor Technologies, Inc. Recent Developments/Updates

9.9.6 Eagle Harbor Technologies, Inc. Competitive Strengths & Weaknesses

9.10 Ness Engineering, Inc.

9.10.1 Ness Engineering, Inc. Details

9.10.2 Ness Engineering, Inc. Major Business

9.10.3 Ness Engineering, Inc. E-Gun Modulators Product and Services

9.10.4 Ness Engineering, Inc. E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Ness Engineering, Inc. Recent Developments/Updates

- 9.10.6 Ness Engineering, Inc. Competitive Strengths & Weaknesses
- 9.11 Kimball Physics, Inc.
 - 9.11.1 Kimball Physics, Inc. Details
 - 9.11.2 Kimball Physics, Inc. Major Business
 - 9.11.3 Kimball Physics, Inc. E-Gun Modulators Product and Services
 - 9.11.4 Kimball Physics, Inc. E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Kimball Physics, Inc. Recent Developments/Updates
 - 9.11.6 Kimball Physics, Inc. Competitive Strengths & Weaknesses
- 9.12 Matsusada Precision
 - 9.12.1 Matsusada Precision Details
 - 9.12.2 Matsusada Precision Major Business
 - 9.12.3 Matsusada Precision E-Gun Modulators Product and Services
 - 9.12.4 Matsusada Precision E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Matsusada Precision Recent Developments/Updates
 - 9.12.6 Matsusada Precision Competitive Strengths & Weaknesses
- 9.13 OSI Systems, Inc. ? Rapiscan
 - 9.13.1 OSI Systems, Inc. ? Rapiscan Details
 - 9.13.2 OSI Systems, Inc. ? Rapiscan Major Business
 - 9.13.3 OSI Systems, Inc. ? Rapiscan E-Gun Modulators Product and Services
 - 9.13.4 OSI Systems, Inc. ? Rapiscan E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 OSI Systems, Inc. ? Rapiscan Recent Developments/Updates
 - 9.13.6 OSI Systems, Inc. ? Rapiscan Competitive Strengths & Weaknesses
- 9.14 VITZRO TECH Co., Ltd.
 - 9.14.1 VITZRO TECH Co., Ltd. Details
 - 9.14.2 VITZRO TECH Co., Ltd. Major Business
 - 9.14.3 VITZRO TECH Co., Ltd. E-Gun Modulators Product and Services
 - 9.14.4 VITZRO TECH Co., Ltd. E-Gun Modulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 VITZRO TECH Co., Ltd. Recent Developments/Updates
 - 9.14.6 VITZRO TECH Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 E-Gun Modulators Industry Chain
- 10.2 E-Gun Modulators Upstream Analysis
 - 10.2.1 E-Gun Modulators Core Raw Materials

- 10.2.2 Main Manufacturers of E-Gun Modulators Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 E-Gun Modulators Production Mode
- 10.6 E-Gun Modulators Procurement Model
- 10.7 E-Gun Modulators Industry Sales Model and Sales Channels
 - 10.7.1 E-Gun Modulators Sales Model
 - 10.7.2 E-Gun Modulators Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World E-Gun Modulators Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World E-Gun Modulators Production Value by Region (2021-2026) & (USD Million)

Table 3. World E-Gun Modulators Production Value by Region (2027-2032) & (USD Million)

Table 4. World E-Gun Modulators Production Value Market Share by Region (2021-2026)

Table 5. World E-Gun Modulators Production Value Market Share by Region (2027-2032)

Table 6. World E-Gun Modulators Production by Region (2021-2026) & (Units)

Table 7. World E-Gun Modulators Production by Region (2027-2032) & (Units)

Table 8. World E-Gun Modulators Production Market Share by Region (2021-2026)

Table 9. World E-Gun Modulators Production Market Share by Region (2027-2032)

Table 10. World E-Gun Modulators Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World E-Gun Modulators Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. E-Gun Modulators Major Market Trends

Table 13. World E-Gun Modulators Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World E-Gun Modulators Consumption by Region (2021-2026) & (Units)

Table 15. World E-Gun Modulators Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World E-Gun Modulators Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key E-Gun Modulators Producers in 2025

Table 18. World E-Gun Modulators Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key E-Gun Modulators Producers in 2025

Table 20. World E-Gun Modulators Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global E-Gun Modulators Company Evaluation Quadrant

Table 22. World E-Gun Modulators Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and E-Gun Modulators Production Site of Key Manufacturer

Table 24. E-Gun Modulators Market: Company Product Type Footprint

Table 25. E-Gun Modulators Market: Company Product Application Footprint

Table 26. E-Gun Modulators Competitive Factors
Table 27. E-Gun Modulators New Entrant and Capacity Expansion Plans
Table 28. E-Gun Modulators Mergers & Acquisitions Activity
Table 29. United States VS China E-Gun Modulators Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China E-Gun Modulators Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China E-Gun Modulators Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based E-Gun Modulators Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers E-Gun Modulators Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers E-Gun Modulators Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers E-Gun Modulators Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers E-Gun Modulators Production Market Share (2021-2026)
Table 37. China Based E-Gun Modulators Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers E-Gun Modulators Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers E-Gun Modulators Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers E-Gun Modulators Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers E-Gun Modulators Production Market Share (2021-2026)
Table 42. Rest of World Based E-Gun Modulators Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers E-Gun Modulators Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers E-Gun Modulators Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers E-Gun Modulators Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers E-Gun Modulators Production Market Share (2021-2026)

Table 47. World E-Gun Modulators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World E-Gun Modulators Production by Type (2021-2026) & (Units)

Table 49. World E-Gun Modulators Production by Type (2027-2032) & (Units)

Table 50. World E-Gun Modulators Production Value by Type (2021-2026) & (USD Million)

Table 51. World E-Gun Modulators Production Value by Type (2027-2032) & (USD Million)

Table 52. World E-Gun Modulators Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World E-Gun Modulators Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World E-Gun Modulators Production Value by Primary Pulse-Width Regime, (USD Million), 2021 & 2025 & 2032

Table 55. World E-Gun Modulators Production by Primary Pulse-Width Regime (2021-2026) & (Units)

Table 56. World E-Gun Modulators Production by Primary Pulse-Width Regime (2027-2032) & (Units)

Table 57. World E-Gun Modulators Production Value by Primary Pulse-Width Regime (2021-2026) & (USD Million)

Table 58. World E-Gun Modulators Production Value by Primary Pulse-Width Regime (2027-2032) & (USD Million)

Table 59. World E-Gun Modulators Average Price by Primary Pulse-Width Regime (2021-2026) & (US\$/Unit)

Table 60. World E-Gun Modulators Average Price by Primary Pulse-Width Regime (2027-2032) & (US\$/Unit)

Table 61. World E-Gun Modulators Production Value by Output Voltage, (USD Million), 2021 & 2025 & 2032

Table 62. World E-Gun Modulators Production by Output Voltage (2021-2026) & (Units)

Table 63. World E-Gun Modulators Production by Output Voltage (2027-2032) & (Units)

Table 64. World E-Gun Modulators Production Value by Output Voltage (2021-2026) & (USD Million)

Table 65. World E-Gun Modulators Production Value by Output Voltage (2027-2032) & (USD Million)

Table 66. World E-Gun Modulators Average Price by Output Voltage (2021-2026) & (US\$/Unit)

Table 67. World E-Gun Modulators Average Price by Output Voltage (2027-2032) & (US\$/Unit)

Table 68. World E-Gun Modulators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World E-Gun Modulators Production by Application (2021-2026) & (Units)

Table 70. World E-Gun Modulators Production by Application (2027-2032) & (Units)

Table 71. World E-Gun Modulators Production Value by Application (2021-2026) & (USD Million)

Table 72. World E-Gun Modulators Production Value by Application (2027-2032) & (USD Million)

Table 73. World E-Gun Modulators Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World E-Gun Modulators Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Nodica Group AB Basic Information, Manufacturing Base and Competitors

Table 76. Nodica Group AB Major Business

Table 77. Nodica Group AB E-Gun Modulators Product and Services

Table 78. Nodica Group AB E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nodica Group AB Recent Developments/Updates

Table 80. Nodica Group AB Competitive Strengths & Weaknesses

Table 81. Stangenes Industries Basic Information, Manufacturing Base and Competitors

Table 82. Stangenes Industries Major Business

Table 83. Stangenes Industries E-Gun Modulators Product and Services

Table 84. Stangenes Industries E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Stangenes Industries Recent Developments/Updates

Table 86. Stangenes Industries Competitive Strengths & Weaknesses

Table 87. Spellman High Voltage Electronics Corporation Basic Information, Manufacturing Base and Competitors

Table 88. Spellman High Voltage Electronics Corporation Major Business

Table 89. Spellman High Voltage Electronics Corporation E-Gun Modulators Product and Services

Table 90. Spellman High Voltage Electronics Corporation E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Spellman High Voltage Electronics Corporation Recent Developments/Updates

Table 92. Spellman High Voltage Electronics Corporation Competitive Strengths & Weaknesses

Table 93. Teledyne Technologies Incorporated Basic Information, Manufacturing Base and Competitors

Table 94. Teledyne Technologies Incorporated Major Business

Table 95. Teledyne Technologies Incorporated E-Gun Modulators Product and Services

Table 96. Teledyne Technologies Incorporated E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Teledyne Technologies Incorporated Recent Developments/Updates

Table 98. Teledyne Technologies Incorporated Competitive Strengths & Weaknesses

Table 99. Varex Imaging Corporation Basic Information, Manufacturing Base and Competitors

Table 100. Varex Imaging Corporation Major Business

Table 101. Varex Imaging Corporation E-Gun Modulators Product and Services

Table 102. Varex Imaging Corporation E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Varex Imaging Corporation Recent Developments/Updates

Table 104. Varex Imaging Corporation Competitive Strengths & Weaknesses

Table 105. Kentech Instruments Limited Basic Information, Manufacturing Base and Competitors

Table 106. Kentech Instruments Limited Major Business

Table 107. Kentech Instruments Limited E-Gun Modulators Product and Services

Table 108. Kentech Instruments Limited E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Kentech Instruments Limited Recent Developments/Updates

Table 110. Kentech Instruments Limited Competitive Strengths & Weaknesses

Table 111. Beijing Dayou Keneng Keji Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Beijing Dayou Keneng Keji Co., Ltd. Major Business

Table 113. Beijing Dayou Keneng Keji Co., Ltd. E-Gun Modulators Product and Services

Table 114. Beijing Dayou Keneng Keji Co., Ltd. E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Beijing Dayou Keneng Keji Co., Ltd. Recent Developments/Updates

Table 116. Beijing Dayou Keneng Keji Co., Ltd. Competitive Strengths & Weaknesses

Table 117. Pulsed Power Japan Laboratory Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. Pulsed Power Japan Laboratory Ltd. Major Business

Table 119. Pulsed Power Japan Laboratory Ltd. E-Gun Modulators Product and Services

Table 120. Pulsed Power Japan Laboratory Ltd. E-Gun Modulators Production (Units),

Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Pulsed Power Japan Laboratory Ltd. Recent Developments/Updates

Table 122. Pulsed Power Japan Laboratory Ltd. Competitive Strengths & Weaknesses

Table 123. Eagle Harbor Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 124. Eagle Harbor Technologies, Inc. Major Business

Table 125. Eagle Harbor Technologies, Inc. E-Gun Modulators Product and Services

Table 126. Eagle Harbor Technologies, Inc. E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Eagle Harbor Technologies, Inc. Recent Developments/Updates

Table 128. Eagle Harbor Technologies, Inc. Competitive Strengths & Weaknesses

Table 129. Ness Engineering, Inc. Basic Information, Manufacturing Base and Competitors

Table 130. Ness Engineering, Inc. Major Business

Table 131. Ness Engineering, Inc. E-Gun Modulators Product and Services

Table 132. Ness Engineering, Inc. E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Ness Engineering, Inc. Recent Developments/Updates

Table 134. Ness Engineering, Inc. Competitive Strengths & Weaknesses

Table 135. Kimball Physics, Inc. Basic Information, Manufacturing Base and Competitors

Table 136. Kimball Physics, Inc. Major Business

Table 137. Kimball Physics, Inc. E-Gun Modulators Product and Services

Table 138. Kimball Physics, Inc. E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Kimball Physics, Inc. Recent Developments/Updates

Table 140. Kimball Physics, Inc. Competitive Strengths & Weaknesses

Table 141. Matsusada Precision Basic Information, Manufacturing Base and Competitors

Table 142. Matsusada Precision Major Business

Table 143. Matsusada Precision E-Gun Modulators Product and Services

Table 144. Matsusada Precision E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Matsusada Precision Recent Developments/Updates

Table 146. Matsusada Precision Competitive Strengths & Weaknesses

Table 147. OSI Systems, Inc. ? Rapiscan Basic Information, Manufacturing Base and Competitors

Table 148. OSI Systems, Inc. ? Rapiscan Major Business

Table 149. OSI Systems, Inc. ? Rapiscan E-Gun Modulators Product and Services

Table 150. OSI Systems, Inc. ? Rapiscan E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. OSI Systems, Inc. ? Rapiscan Recent Developments/Updates

Table 152. OSI Systems, Inc. ? Rapiscan Competitive Strengths & Weaknesses

Table 153. VITZRO TECH Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 154. VITZRO TECH Co., Ltd. Major Business

Table 155. VITZRO TECH Co., Ltd. E-Gun Modulators Product and Services

Table 156. VITZRO TECH Co., Ltd. E-Gun Modulators Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. VITZRO TECH Co., Ltd. Recent Developments/Updates

Table 158. VITZRO TECH Co., Ltd. Competitive Strengths & Weaknesses

Table 159. Global Key Players of E-Gun Modulators Upstream (Raw Materials)

Table 160. Global E-Gun Modulators Typical Customers

Table 161. E-Gun Modulators Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. E-Gun Modulators Picture

Figure 2. World E-Gun Modulators Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World E-Gun Modulators Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World E-Gun Modulators Production (2021-2032) & (Units)

Figure 5. World E-Gun Modulators Average Price (2021-2032) & (US\$/Unit)

Figure 6. World E-Gun Modulators Production Value Market Share by Region (2021-2032)

Figure 7. World E-Gun Modulators Production Market Share by Region (2021-2032)

Figure 8. North America E-Gun Modulators Production (2021-2032) & (Units)

Figure 9. Europe E-Gun Modulators Production (2021-2032) & (Units)

Figure 10. China E-Gun Modulators Production (2021-2032) & (Units)

Figure 11. Japan E-Gun Modulators Production (2021-2032) & (Units)

Figure 12. E-Gun Modulators Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 15. World E-Gun Modulators Consumption Market Share by Region (2021-2032)

Figure 16. United States E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 17. China E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 18. Europe E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 19. Japan E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 20. South Korea E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 21. ASEAN E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 22. India E-Gun Modulators Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of E-Gun Modulators by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for E-Gun Modulators Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for E-Gun Modulators Markets in 2025

Figure 26. United States VS China: E-Gun Modulators Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: E-Gun Modulators Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: E-Gun Modulators Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers E-Gun Modulators Production Market Share 2025

Figure 30. China Based Manufacturers E-Gun Modulators Production Market Share 2025

Figure 31. Rest of World Based Manufacturers E-Gun Modulators Production Market Share 2025

Figure 32. World E-Gun Modulators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World E-Gun Modulators Production Value Market Share by Type in 2025

Figure 34. Diode Cathode-Pulsed Gun

Figure 35. Triode Grid-Controlled Gun

Figure 36. Multi-Electrode or Custom Gun

Figure 37. Others

Figure 38. World E-Gun Modulators Production Market Share by Type (2021-2032)

Figure 39. World E-Gun Modulators Production Value Market Share by Type (2021-2032)

Figure 40. World E-Gun Modulators Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World E-Gun Modulators Production Value by Primary Pulse-Width Regime, (USD Million), 2021 & 2025 & 2032

Figure 42. World E-Gun Modulators Production Value Market Share by Primary Pulse-Width Regime in 2025

Figure 43. Sub-Nanosecond Pulsers

Figure 44. Nanosecond Pulsers

Figure 45. Microsecond Pulsers

Figure 46. Others

Figure 47. World E-Gun Modulators Production Market Share by Primary Pulse-Width Regime (2021-2032)

Figure 48. World E-Gun Modulators Production Value Market Share by Primary Pulse-Width Regime (2021-2032)

Figure 49. World E-Gun Modulators Average Price by Primary Pulse-Width Regime (2021-2032) & (US\$/Unit)

Figure 50. World E-Gun Modulators Production Value by Output Voltage, (USD Million), 2021 & 2025 & 2032

Figure 51. World E-Gun Modulators Production Value Market Share by Output Voltage in 2025

Figure 52. Low-Voltage Range: ?30 kV

Figure 53. Medium-Voltage Range: 30 Kv?100 kV

Figure 54. High-Voltage Range: >100 kV

Figure 55. World E-Gun Modulators Production Market Share by Output Voltage (2021-2032)

Figure 56. World E-Gun Modulators Production Value Market Share by Output Voltage (2021-2032)

Figure 57. World E-Gun Modulators Average Price by Output Voltage (2021-2032) & (US\$/Unit)

Figure 58. World E-Gun Modulators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World E-Gun Modulators Production Value Market Share by Application in 2025

Figure 60. Healthcare

Figure 61. Industrial Inspection and Security Screening

Figure 62. Radiation Processing and Sterilization

Figure 63. Others

Figure 64. World E-Gun Modulators Production Market Share by Application (2021-2032)

Figure 65. World E-Gun Modulators Production Value Market Share by Application (2021-2032)

Figure 66. World E-Gun Modulators Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. E-Gun Modulators Industry Chain

Figure 68. E-Gun Modulators Procurement Model

Figure 69. E-Gun Modulators Sales Model

Figure 70. E-Gun Modulators Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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