

Global GaN Crystal Growth Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GaN Crystal Growth Systems market size is expected to reach \$ 141 million by 2032, rising at a market growth of 16.1% CAGR during the forecast period (2026-2032).

A gallium nitride (GaN) crystal growth furnace refers to specialized equipment capable of operating at high temperatures and high pressures or under controlled reactive atmospheres used to produce GaN bulk single crystals, thick GaN crystal layers, precursors for free-standing GaN substrates, or GaN seeds/templates. The prevailing technical approach is HVPE (Hydride Vapor Phase Epitaxy); prices typically range from approximately RMB 1 million to 3.8 million, depending on specific application requirements, while the overall market gross margin stands at around 35%.

Based on our research, GaN bulk crystal growth furnaces form a narrow and highly specialized equipment segment rather than a broad semiconductor equipment category. The core technology barrier is not generic furnace manufacturing, but the ability to control reactor chemistry, chlorine/ammonia reaction environments, parasitic deposition, thermal-field uniformity, thick-film stress, pressure safety, and long-cycle process stability.

From a supply perspective, the confirmed global OEM base is small. The United States, Japan, China, and Russia represent the most visible regions in the current public evidence base. U.S. companies such as CVD Equipment, Kyma, and Agnitron provide the clearest HVPE-related equipment references. Japan is more prominent in THVPE development, high-pressure ammonothermal autoclave systems, and GaN substrate process integration. China has started to show visible domestic equipment suppliers, including companies that publicly list HVPE GaN single-crystal growth equipment.

Russia contributes a niche HVPE reactor supplier. Several European players have historical HVPE references, but their current publicly visible product lines are more concentrated in MOCVD, epitaxy, or adjacent compound semiconductor equipment.

This report studies the global GaN Crystal Growth Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GaN Crystal Growth Systems 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 GaN Crystal Growth Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GaN Crystal Growth Systems total production and demand, 2021-2032, (Units)

Global GaN Crystal Growth Systems total production value, 2021-2032, (USD Million)

Global GaN Crystal Growth Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global GaN Crystal Growth Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: GaN Crystal Growth Systems domestic production, consumption, key domestic manufacturers and share

Global GaN Crystal Growth Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global GaN Crystal Growth Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global GaN Crystal Growth Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global GaN Crystal Growth Systems 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 CVD Equipment Corporation, Kyma Technologies, Inc, Nanjing Crystal Growth & Energy Equipment Co., Ltd, Shandong Liguan Micro Electronics Equipment Co., Ltd, The Japan Steel Works, Ltd, Taiyo Nippon Sanso Corporation, TRINITRI-Technology LLC, Agnitron Technology, Inc, Shenyang Zhongke Handan Technology 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 GaN Crystal Growth Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 GaN Crystal Growth Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaN Crystal Growth Systems Market, Segmentation by Type:

Vertical Crystal Growth Systems

Horizontal Crystal Growth Systems

Global GaN Crystal Growth Systems Market, Segmentation by GaN Wafer Size:

2 Inch Equipment

4 Inch Equipment

Others

Global GaN Crystal Growth Systems Market, Segmentation by Manufacturing Maturity:

Mass Production

Scientific Research & R&D

Global GaN Crystal Growth Systems Market, Segmentation by Application:

Gallium Nitride for LEDs

Gallium Nitride for Laser Diodes

Gallium Nitride for Power Electronic Devices

Others

Companies Profiled:

CVD Equipment Corporation

Kyma Technologies, Inc

Nanjing Crystal Growth & Energy Equipment Co., Ltd

Shandong Liguan Micro Electronics Equipment Co., Ltd

The Japan Steel Works, Ltd

Taiyo Nippon Sanso Corporation

TRINITRI-Technology LLC

Agnitron Technology, Inc

Shenyang Zhongke Handan Technology Co., Ltd

Key Questions Answered:

1. How big is the global GaN Crystal Growth Systems market?
2. What is the demand of the global GaN Crystal Growth Systems market?
3. What is the year over year growth of the global GaN Crystal Growth Systems market?
4. What is the production and production value of the global GaN Crystal Growth Systems market?
5. Who are the key producers in the global GaN Crystal Growth Systems market?
6. What are the growth factors driving the market demand?

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