

Global GaN Crystal Growth Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global GaN Crystal Growth Systems market size was valued at US\$ 42.19 million in 2025 and is forecast to a readjusted size of US\$ 141 million by 2032 with a CAGR of 16.1% during review period.

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 is a detailed and comprehensive analysis for global GaN Crystal Growth Systems 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 GaN Crystal Growth Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global GaN Crystal Growth Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global GaN Crystal Growth Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global GaN Crystal Growth Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 GaN Crystal Growth Systems

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 GaN Crystal Growth Systems 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 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.

Market Segmentation

GaN Crystal Growth Systems market is split by Type and by Application. For the period 2021-2032, 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

Vertical Crystal Growth Systems

Horizontal Crystal Growth Systems

Market segment by GaN Wafer Size

2 Inch Equipment

4 Inch Equipment

Others

Market segment by Manufacturing Maturity

Mass Production

Scientific Research & R&D

Market segment by Application

Gallium Nitride for LEDs

Gallium Nitride for Laser Diodes

Gallium Nitride for Power Electronic Devices

Others

Major players covered

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

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 GaN Crystal Growth Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN Crystal Growth Systems, with price, sales quantity, revenue, and global market share of GaN Crystal Growth Systems from 2021 to 2026.

Chapter 3, the GaN Crystal Growth Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN Crystal Growth Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and GaN Crystal Growth Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 GaN Crystal Growth Systems.

Chapter 14 and 15, to describe GaN Crystal Growth Systems sales channel, distributors, customers, research findings and conclusion.

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