

Global GaN Crystal Growth Systems Market Growth 2026-2032

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Abstracts

The global GaN Crystal Growth Systems market size is predicted to grow from US\$ 40.11 million in 2025 to US\$ 141 million in 2032; it is expected to grow at a CAGR of 17.1% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "GaN Crystal Growth Systems Industry Forecast" looks at past sales and reviews total world GaN Crystal Growth Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected GaN Crystal Growth Systems sales for 2026 through 2032. With GaN Crystal Growth Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN Crystal Growth Systems industry.

This Insight Report provides a comprehensive analysis of the global GaN Crystal Growth Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GaN Crystal Growth Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaN Crystal Growth Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Crystal Growth Systems and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global GaN Crystal Growth Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN Crystal Growth Systems market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vertical Crystal Growth Systems

Horizontal Crystal Growth Systems

Segmentation by GaN Wafer Size:

2 Inch Equipment

4 Inch Equipment

Others

Segmentation by Manufacturing Maturity:

Mass Production

Scientific Research & R&D

Segmentation by Application:

Gallium Nitride for LEDs

Gallium Nitride for Laser Diodes

Gallium Nitride for Power Electronic Devices

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global GaN Crystal Growth Systems market?

What factors are driving GaN Crystal Growth Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GaN Crystal Growth Systems market opportunities vary by end market size?

How does GaN Crystal Growth Systems break out by Type, by Application?

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