

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

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Abstracts

The global GaN HVPE Systems market size is expected to reach \$ 133 million by 2032, rising at a market growth of 15.7% CAGR during the forecast period (2026-2032).

A GaN HVPE system 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, free-standing GaN substrate precursors, or GaN seeds/templates.

Currently, the price of GaN HVPE (Hydride Vapor Phase Epitaxy) growth equipment typically ranges from approximately RMB 1 million to RMB 3.8 million, depending on specific application requirements; the overall market gross profit margin is around 35%.

Our research indicates that GaN HVPE systems are not general-purpose semiconductor equipment in the traditional sense; rather, they are specialized material-processing tools designed specifically for the production of native GaN substrates, GaN-on-GaN structures, and high-quality thick-film GaN. The core barriers to entry in this sector lie not in the manufacturing of standard high-temperature furnaces, but in reactor material compatibility, control of chloride/ammonia gas systems, suppression of parasitic reactions, stress management in thick films, temperature uniformity, pressure safety, and long-term operational stability.

Regarding demand dynamics, the growth of GaN HVPE systems is primarily driven by the transition of native GaN substrates from R&D samples to small-batch industrial production. Applications such as laser diodes, Micro-LEDs, high-power-density power supplies, data center power systems, automotive electric drive units, and high-frequency devices are likely to boost demand for low-defect GaN substrates; however,

the pace of industrialization remains constrained by factors such as substrate cost, crystal size, yield rates, device design ecosystems, and competing technological pathways. With GaN-on-Si advancing toward a 300mm cost platform and GaN-on-SiC retaining its advantages in RF applications, the market for GaN-on-GaN equipment is unlikely to see linear volume expansion. Instead, it will likely follow a pattern characterized by project-based capacity expansion, phased validation, and mass adoption by a select few customers.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global GaN HVPE 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 HVPE 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 HVPE Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaN HVPE Systems Market, Segmentation by Type:

Vertical Crystal Growth Systems

Horizontal Crystal Growth Systems

Global GaN HVPE Systems Market, Segmentation by Wafer Size:

2 Inch Equipment

4 Inch Equipment

Others

Global GaN HVPE Systems Market, Segmentation by Manufacturing Maturity:

Mass Production

Scientific Research & R&D

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

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