

# Global Gallium Oxide Crystal Growth Furnace Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Gallium Oxide Crystal Growth Furnace market size is expected to reach \$ 305 million by 2032, rising at a market growth of 29.3% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Gallium Oxide Crystal Growth Furnace is estimated at approximately 65 units, with a global average market price of about USD 750,000 per unit. The gross margin of major industry manufacturers is generally around 30%–45%.

Gallium Oxide Crystal Growth Furnace is a specialized crystal growth equipment designed for the high-temperature growth conditions of gallium oxide crystals. It is mainly used to prepare  $\text{Ga}_2\text{O}_3$  single crystals, ingots, crystal rods, and front-end crystal materials for subsequent substrate production. The equipment is designed around the characteristics of gallium oxide, including high melting point, volatility, sensitivity to oxygen partial pressure, and strict thermal field control requirements. It typically integrates a heating system, thermal field structure, crucible/mold system, seed crystal motion mechanism, vacuum and atmosphere control, oxygen partial pressure control, temperature measurement system, cooling system, and automated control system, and can be adapted to different crystal growth processes such as Edge-defined Film-fed Growth, Vertical Bridgman Method, Czochralski Method, and Optical Floating Zone Method.

Its upstream mainly includes high-purity gallium oxide raw materials, precious metal crucibles and molds, high-temperature insulation materials, heating power supplies, vacuum pump systems, gas control systems, temperature measurement instruments, motion control components, and automation software. The midstream covers thermal field design, furnace body manufacturing, atmosphere control, crystal growth process

adaptation, and complete equipment integration and commissioning. The downstream applications mainly include semiconductor, optoelectronic detection, and other fields. In the semiconductor field, the equipment is mainly used for the preparation of gallium oxide single crystals, ingots, and substrates; in the optoelectronic detection field, it is mainly used for the development of solar-blind ultraviolet detection materials; other applications include research and pilot-scale validation, extreme-environment electronics, and specialty crystal material verification.

This report studies the global Gallium Oxide Crystal Growth Furnace production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Gallium Oxide Crystal Growth Furnace total production and demand, 2021-2032, (Units)

Global Gallium Oxide Crystal Growth Furnace total production value, 2021-2032, (USD Million)

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

Global Gallium Oxide Crystal Growth Furnace consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Gallium Oxide Crystal Growth Furnace domestic production, consumption, key domestic manufacturers and share

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

Global Gallium Oxide Crystal Growth Furnace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Gallium Oxide Crystal Growth Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Gallium Oxide Crystal Growth Furnace 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 C&A Corporation, Fujikoshi Machinery, Daiichi Kiden, Scientific Instruments Dresden GmbH, Shandong Jingsheng Electronics Technology, Fujia Gallium, GAREN SEMI, Suzhou GAO Semiconductor, Beijing Opto-Electronics Technology, 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 Gallium Oxide Crystal Growth Furnace 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 Gallium Oxide Crystal Growth Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gallium Oxide Crystal Growth Furnace Market, Segmentation by Type:

Edge-defined Film-fed Growth (EFG)

Vertical Bridgman Method (VB)

Czochralski Method (CZ)

Optical Floating Zone Method (OFZ)

Global Gallium Oxide Crystal Growth Furnace Market, Segmentation by Heating Method:

Induction Heating

Resistance Heating

Infrared Mirror Heating

Global Gallium Oxide Crystal Growth Furnace Market, Segmentation by Maximum Operating Temperature:

?1800°C

1800–2000°C

?2000°C

Global Gallium Oxide Crystal Growth Furnace Market, Segmentation by Application:

Semiconductor

Optoelectronic Detection

Other

Companies Profiled:

C&A Corporation

Fujikoshi Machinery

Daiichi Kiden

Scientific Instruments Dresden GmbH

Shandong Jingsheng Electronics Technology

Fujia Gallium

GAREN SEMI

Suzhou GAO Semiconductor

Beijing Opto-Electronics Technology

#### Key Questions Answered:

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

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