

# Global Gallium Oxide Crystal Growth Furnace 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 Gallium Oxide Crystal Growth Furnace market size was valued at US\$ 50.16 million in 2025 and is forecast to a readjusted size of US\$ 305 million by 2032 with a CAGR of 29.3% during review period.

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  $\alpha$ -Ga<sub>2</sub>O<sub>3</sub> 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 is a detailed and comprehensive analysis for global Gallium Oxide Crystal Growth Furnace 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 Gallium Oxide Crystal Growth Furnace market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Gallium Oxide Crystal Growth Furnace market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 Gallium Oxide Crystal Growth Furnace

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 Gallium Oxide Crystal Growth Furnace 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 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.

## Market Segmentation

Gallium Oxide Crystal Growth Furnace 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

Edge-defined Film-fed Growth (EFG)

Vertical Bridgman Method (VB)

Czochralski Method (CZ)

Optical Floating Zone Method (OFZ)

### Market segment by Heating Method

Induction Heating

Resistance Heating

Infrared Mirror Heating

#### Market segment by Maximum Operating Temperature

?1800°C

1800–2000°C

?2000°C

#### Market segment by Application

Semiconductor

Optoelectronic Detection

Other

#### Major players covered

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

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 Gallium Oxide Crystal Growth Furnace product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Gallium Oxide Crystal Growth Furnace 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 Gallium Oxide Crystal Growth Furnace 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 Gallium Oxide Crystal Growth Furnace.

Chapter 14 and 15, to describe Gallium Oxide Crystal Growth Furnace sales channel, distributors, customers, research findings and conclusion.

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