

# Global TGV Substrate 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 TGV Substrate market size was valued at US\$ 162 million in 2025 and is forecast to a readjusted size of US\$ 564 million by 2032 with a CAGR of 19.8% during review period.

In 2024, global TGV Substrate production reached approximately 4,053 K Pcs, with an average global market price of around US\$ 30.4 per piece.

TGV substrates, also known as through-glass via (TGV) substrates, are glass substrates with vertical electrical interconnects. Their core features are threefold: glass substrate, through-glass via technology, and metallization.

TGV is a miniaturized packaging technology used in semiconductor packaging and microelectronics, providing vertical electrical interconnects through a glass substrate. Using high-quality borosilicate glass or quartz glass as substrates, 3D interconnects are achieved through laser induction, etching, seed layer sputtering, electroplating and filling, chemical mechanical planarization, RDL, and bump processes. TGV diameters typically range from 10 $\mu$ m to 100 $\mu$ m. For various applications in advanced packaging, tens of thousands of TGV vias are typically required per wafer, and these are metallized to ensure the required electrical conductivity.

TGV substrates exhibit excellent high-frequency electrical properties. The dielectric constant of glass is approximately one-third that of silicon, and the dissipation factor is two to three orders of magnitude lower than silicon. This significantly reduces substrate losses and parasitic effects, ensuring signal integrity. TGV substrate production eliminates the need for complex insulating layer deposition processes, and thinning is not required in the ultra-thin interposer, streamlining the production process and

improving efficiency. Due to the readily available availability of large-scale, ultra-thin panel glass and the elimination of the need for insulating layer deposition on the substrate surface or the inner walls of the TGV, production costs are significantly reduced. Even with an interposer thickness less than 100 $\mu$ m, warpage remains minimal, ensuring the stability and reliability of the package structure. TGV substrates offer unique advantages in applications such as RF chips, high-end MEMS sensors, and high-density system integration, making them a preferred choice for next-generation high-frequency chip 3D packaging.

Currently, the market for wafer-level TGV substrates is relatively mature, while the panel-level TGV substrate market is still in the research or pilot production stages. This article provides statistics on TGV substrates based on wafer size, and Chapter 1.5 provides a separate forecast analysis of panel-level TGV substrate data.

Through-glass via (TGV) is an advanced three-dimensional integrated circuit technology that enables device miniaturization, high-density packaging, and gigahertz-speed data processing in various markets, including data centers, 5G communication networks, and IoT devices. Glass is a potential alternative to silicon-based interposers. Compared to through-silicon vias (TSVs), TGVs offer advantages such as low cost, easy availability of large, ultra-thin glass substrates, and superior high-frequency electrical performance. The core of TGV technology lies in the deep hole formation process. Developed glass hole formation techniques include plasma etching and laser ablation. However, due to the fragility, smooth surface, and chemical inertness of glass, existing technologies are currently unable to achieve large-scale production and application of TGVs.

The TGV substrate industry chain is divided into three parts: the main participants in the upstream of the industry chain are raw material suppliers and equipment manufacturers; the main players in the midstream of the industry chain are TGV substrate manufacturers and packaging and testing companies (not elaborated in this report), and the main TGV substrate manufacturers include Corning, LPKF, Samtec, Xiamen Yuntian Semiconductor, Tecnisco, Microplex, PLANOPTIK and NSG Group; the downstream of the industry chain is mainly scattered in application fields such as consumer electronics and the automotive industry.

Regionally, the Chinese market has experienced rapid growth over the past few years. The market size in 2024 was US\$25.42 billion, accounting for approximately 20.62% of the global market. It is projected to reach US\$132.12 billion in 2031, representing a 27.83% global share. my country is not only a leading country in 5G network construction but also a major manufacturer of downstream 5G terminal equipment. my

country's TGV market is growing faster than the global average. With technological advancements and cost reductions, the TGV market has broad potential for future development.

In terms of product type and technology, 300mm wafers hold the largest market share, accounting for 65.05% of the global market in 2024.

Analyzed by product application, the consumer electronics industry, with a 63.91% share, is the largest application market for TGV substrates. These substrates are widely used in products such as smartphones, wearable devices, and high-speed processors to meet the demand for miniaturized electronic components. The automotive industry accounts for 21.10%. TGV substrates enhance vehicle safety and performance in advanced driver assistance systems, infotainment systems, and electric vehicle power modules. In other fields, the biomedical sector is seeing increasing use of TGV substrates due to their biocompatibility and high precision. They play a vital role in implantable medical devices, biosensors, and microfluidic chips. The increasing integration rate of TGV substrates in 5G and high-frequency communications applications is strongly supporting the construction of next-generation wireless networks and data centers.

The through-glass via (TGL) substrate market is highly concentrated. Currently, core TGV substrate manufacturers worldwide include Corning, LPKF, Samtec, SCHOTT, Xiamen Yuntian Semiconductor, and Tecnisco. In 2024, the top tier of global manufacturers will be Corning and LPKF, holding a 50% market share; the second tier will include Samtec, SCHOTT, Xiamen Yuntian Semiconductor, and Tecnisco, with a combined 33.86% share. By 2024, the market share of these major manufacturers will approach 90%, and industry competition is expected to intensify in the coming years, particularly in the Chinese market.

However, market development has not been smooth sailing. High production costs have become a major obstacle to market expansion. Compared to traditional substrates, TGV substrate manufacturing technology is complex, increasing production time and impacting supply chain efficiency. Furthermore, in emerging markets, due to limited awareness of TGV technology, adoption rates are slower than in mature markets.

Overall, the global TGV substrate market holds promising prospects but faces numerous challenges. Companies need to continuously optimize production processes to reduce costs, increase R&D investment to overcome technical difficulties, strengthen market promotion to enhance technology awareness, and closely monitor changes in

policies and regulations. Only in this way can they gain a favorable position in the fierce market competition and promote the sustainable and healthy development of the TGV substrate market.

This report is a detailed and comprehensive analysis for global TGV Substrate 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 TGV Substrate market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global TGV Substrate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global TGV Substrate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global TGV Substrate market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 TGV Substrate

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 TGV Substrate 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 Corning, LPKF, Samtec, SCHOTT, Xiamen Sky Semiconductor Technology, Tecnisco, PLANOPTIK, NSG Group, AGC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

TGV Substrate 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

300mm Wafer Size

200mm Wafer Size

?150mm Wafer Size

### Market segment by Substrate Morphology

Wafer-Level TGV Substrates

Panel-Level TGV Substrates

### Market segment by Through-hole Metallization Methods

Electroplated Copper Filling

Sputtering Metallization

Nanometallic Slurry Filling

### Market segment by Application

Consumer Electronics

Automotive Industry

Others

Major players covered

Corning

LPKF

Samtec

SCHOTT

Xiamen Sky Semiconductor Technology

Tecnisco

PLANOPTIK

NSG Group

AGC

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 TGV Substrate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of TGV Substrate, with price, sales quantity, revenue, and global market share of TGV Substrate from 2021 to 2026.

Chapter 3, the TGV Substrate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the TGV Substrate 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 TGV Substrate 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 TGV Substrate.

Chapter 14 and 15, to describe TGV Substrate sales channel, distributors, customers, research findings and conclusion.

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