

Global Through Glass Via (TGV) Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Through Glass Via (TGV) Technology market size is expected to reach \$ 821 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

Through Glass Via (TGV) Technology refers to an advanced packaging technology in which through micro-vias are formed in substrates such as borosilicate glass and fused silica (quartz), and the via sidewalls are metallized to create a three-dimensional interconnect structure with vertical electrical interconnection capability. In terms of process flow, high-aspect-ratio micro-via arrays with diameters of 10?100 ?m are typically formed in glass via laser drilling and dry/wet etching, followed by seed-layer deposition and electroplating fill to complete via metallization. Glass through-vias without metallization are only an intermediate form; only metallized TGV structures provide practical electrical interconnect functionality and qualify as a product. From an industrialization perspective, Through Glass Via technology ultimately materializes as TGV substrates densely populated with metallized vias, and is widely used in RF chips, high-end MEMS devices, and high-density 3D system integration. In this report's quantitative accounting, ?Through Glass Via (TGV) Technology? refers specifically to wafer-format TGV substrates that have completed via metallization and are ready for packaging applications.

The supply chain for TGV substrates typically involves upstream glass material suppliers, midstream laser drilling and copper filling processing plants, and downstream packaging houses and semiconductor manufacturers. Supplier concentration is relatively high, with significant technical barriers. Major suppliers are primarily located in the United States, Japan, South Korea, Europe, and a few regions in China.

TGV technology was initially developed by American, Japanese, and European companies to enable micro-interconnects for high-density packaging, addressing bottlenecks in high-speed and high-frequency signal transmission associated with

silicon interconnects and traditional PCBs. In recent years, with the rapid development of 5G, optoelectronic devices, and sensors, TGV technology has gradually been applied in MEMS, optical modules, and high-frequency antenna packaging. The primary industry prospects lie in high-frequency and high-speed packaging applications, such as 5G RF modules, optical communication devices, micro-sensors, and Micro-Electro-Mechanical Systems (MEMS) devices. The market for mid-to-low-end TGV products is relatively small, while high-end products maintain strong competitiveness due to their precision and reliability. In the future, with the growing demand for heterogeneous integration and advanced packaging, the TGV market is expected to continue expanding.

TGV substrate production involves processes such as glass cutting, laser drilling, cleaning, metallization, and electroplating. The production capacity of a single line is usually constrained by glass size, via diameter, and filling efficiency. A high-precision TGV production line can have an annual capacity ranging from several hundred thousand to millions of wafers, depending on the aperture, number of layers, and copper filling speed.

Due to complex processes and high technical barriers, TGV products generally yield high gross margins, typically within the range of 30% to 35%. The margin level is significantly influenced by the degree of production line automation, yield rate, and order scale.

Costs are primarily composed of raw materials (glass substrates account for approximately 50%-60%), processing technologies (laser drilling, copper deposition, electroplating, etc., accounting for 30%-40%), and equipment depreciation and labor (accounting for 10%-20%). High yield rates and high automation can significantly reduce unit costs.

After packaging is completed, TGV substrates are generally not sold separately but enter the market mainly as finished component devices. Production waste primarily consists of drilling debris, defective copper deposition products, and broken glass. Companies mitigate losses through recycling, reuse, or low-value disposal.

This report studies the global Through Glass Via (TGV) Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Through Glass Via (TGV) Technology, 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 Through Glass Via (TGV) Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Through Glass Via (TGV) Technology total market, 2021-2032, (USD Million)

Global Through Glass Via (TGV) Technology total market by region & country, CAGR,

2021-2032, (USD Million)

U.S. VS China: Through Glass Via (TGV) Technology total market, key domestic companies, and share, (USD Million)

Global Through Glass Via (TGV) Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Through Glass Via (TGV) Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Through Glass Via (TGV) Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Through Glass Via (TGV) Technology market based on the following parameters - company overview, revenue, 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, JNTC, 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 Through Glass Via (TGV) Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Through Glass Via (TGV) Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Through Glass Via (TGV) Technology Market, Segmentation by Type:

Panel-Level TGV Substrate

Wafer-Level TGV Substrate

Global Through Glass Via (TGV) Technology Market, Segmentation by Size:

300 mm Wafer Size

200 mm Wafer Size

150 mm Wafer Size

510*515 mm Panel Size

Others

Global Through Glass Via (TGV) Technology Market, Segmentation by Hole Diameter:

D

D > 50 μm

Global Through Glass Via (TGV) Technology Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

High-performance Computing and Data Centers

Others

Companies Profiled:

Corning

LPKF

Samtec

SCHOTT

Xiamen Sky Semiconductor Technology

Tecnisco

PLANOPTIK

NSG Group

AGC

JNTC

Key Questions Answered

1. How big is the global Through Glass Via (TGV) Technology market?
2. What is the demand of the global Through Glass Via (TGV) Technology market?
3. What is the year over year growth of the global Through Glass Via (TGV) Technology market?
4. What is the total value of the global Through Glass Via (TGV) Technology market?
5. Who are the Major Players in the global Through Glass Via (TGV) Technology market?
6. What are the growth factors driving the market demand?

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