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# Global TGV Drilling Equipment 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 Drilling Equipment market size was valued at US$ 149 million in 2025 and is forecast to a readjusted size of US$ 244 million by 2032 with a CAGR of 7.3% during review period.

In 2025, the global production of TGV drilling equipment was approximately 30 units, with an average global market price of about US$4.5 million per unit. In the same year, the total global production capacity of TGV drilling equipment reached 40units. The industry average gross profit margin for this product reached 52%.

TGV drilling equipment refers to high-precision manufacturing equipment that uses lasers to process micron-sized through-holes, blind holes, microgrooves, and other structures on glass substrates or glass wafers. Its core principle is to use a laser beam shaped with ultra-high peak power density to instantaneously act on the interior of the transparent material, forming tiny laser-modified channels. Then, based on the difference in anisotropic etching rates between the modified and unmodified areas, chemical etching is used to form through-holes with a certain aspect ratio and controllable morphology. This equipment mainly solves the problems of glass micro-cracks, edge chipping, rough hole walls, and unstable yields that are easily caused by traditional mechanical drilling and heat-affected laser processing. It is a core process equipment in the fields of advanced packaging, 3D integration, and glass substrate manufacturing.

The TGV drilling equipment industry chain is centered on laser equipment. Upstream, it encompasses core components such as lasers and optical systems, as well as key materials like glass substrates and electronic chemicals. Midstream is equipment

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manufacturing, with major manufacturers including domestic and international companies such as Di'er Laser, HGLaser, Delong Laser, Han's Semiconductor, and Taisheng Technology. Their equipment has already been supplied in batches to substrate processing plants like Woge Optoelectronics. Downstream applications cover advanced semiconductor packaging, CPO optical modules, and display panels. Currently, the industry chain is moving from verification to small-batch mass production.

The TGV drilling equipment market has broad prospects. Driven by the explosive growth of AI computing power and the demand for advanced packaging, glass substrates, with their advantages of low loss and anti-warping, have become key materials for next-generation packaging, directly boosting equipment demand. The global TGV laser-induced equipment market is projected to grow from RMB 263 million in 2025 to RMB 417 million in 2032, while the overall market size for advanced packaging TGV is expected to approach US$8 billion in 2028. With domestic manufacturers making continuous breakthroughs in ultrafast lasers and high-precision processing, domestically produced equipment is entering a period of order fulfillment and is expected to benefit significantly from this billion-dollar blue ocean market.

## Report Scope

This report is a detailed and comprehensive analysis for global TGV Drilling Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Through-hole Diameter 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 Drilling Equipment market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global TGV Drilling Equipment market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

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Global TGV Drilling Equipment market size and forecasts, by Through-hole Diameter and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global TGV Drilling Equipment 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 TGV Drilling Equipment

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 Drilling Equipment 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 LPKF, DR Laser, Hans Laser, Huagong Tech, Delphilaser, Philoptics, Hymson, Akribis Systems, Guihua Intelligent, E&R Engineering, etc.

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

TGV Drilling Equipment market is split by Through-hole Diameter and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Through-hole Diameter, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

## Market Segmentation

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## Market segment by Through-hole Diameter

< 50 Micrometers

50 – 150 Micrometers

> 150 Micrometers

## Market segment by Substrate Form

Dedicated Equipment for Glass Wafers

Dedicated Equipment for Glass Panels

## Market segment by Application

RF and Microwave Devices

Optoelectronics and Integrated Optical Modules

MEMS and Microsensors

Others

## Major players covered

LPKF

DR Laser

Hans Laser

Huagong Tech

Delphilaser

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Philoptics

Hymson

Akribis Systems

Guihua Intelligent

E&R Engineering

MOL Solutions

### 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)

## Chapter Outline

Chapter 1, to describe TGV Drilling Equipment product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the TGV Drilling Equipment competitive situation, sales quantity, revenue,

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and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the TGV Drilling Equipment 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 Through-hole Diameter and by Application, with sales market share and growth rate by Through-hole Diameter, 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 Drilling Equipment market forecast, by regions, by Through-hole Diameter, 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 Drilling Equipment.

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

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