

Global Photonic Chip KGD Test and Sorting Systems Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Photonic Chip KGD Test and Sorting Systems market size was valued at US\$ 268 million in 2025 and is forecast to a readjusted size of US\$ 1196 million by 2032 with a CAGR of 21.3% during review period.

Photonic Chip KGD Test and Sorting Systems are automated equipment platforms used to test, classify and screen photonic, optoelectronic and silicon photonics devices at wafer level, bar level, singulated-die level or before advanced packaging. These systems typically integrate wafer or die handling, probe stations, optical coupling and nano-positioning modules, electrical/RF test instruments, LIV, spectrum, near-field and far-field measurement modules, thermal control, software automation, die mapping, binning and data traceability. The core purpose is to identify Known Good Die before costly photonic packaging, co-packaged optics assembly, optical module manufacturing, or heterogeneous integration, thereby improving final yield and reducing downstream scrap cost.

Based on our research, the market for Photonic Chip KGD Test and Sorting Systems should be understood as a specialized equipment segment rather than a generic semiconductor tester or optical-module test market. The core system combines optical coupling, electrical and RF testing, high-precision motion control, wafer or die automation, temperature control, binning software and traceability. Unlike conventional IC wafer sort, photonic devices require optical-to-optical, optical-to-electrical, electrical-to-optical and electrical-to-electrical measurements at wafer or die level. This creates difficult requirements around edge coupling, grating coupling, fiber-array alignment, optical loss stability, LIV, near-field and far-field measurements, and automated

calibration. Therefore, the most appropriate market boundary is chip-level KGD screening and sorting before photonic packaging, advanced packaging or optical-engine assembly.

Demand growth is driven by three major forces. First, AI data centers, co-packaged optics, near-package optics and optical I/O are pushing silicon photonics closer to manufacturing scale, making wafer-level electro-optical test a bottleneck for yield ramp. Second, VCSEL and laser-diode applications in datacom, 3D sensing, LiDAR and optical sensing continue to require high-throughput wafer testing and binning. Third, advanced packaging increases the value of KGD screening, because a defective photonic die integrated into a high-value package can cause disproportionate downstream scrap cost. This makes the segment structurally attractive, although the pace of adoption will depend on CPO deployment, silicon photonics wafer capacity and the willingness of large customers to buy external systems rather than build internal test platforms.

From a technology perspective, the next stage of competition will move beyond basic measurement capability toward throughput, repeatability, automated alignment, multi-channel scaling, factory integration and data traceability. Silicon photonics test systems are moving toward 300mm wafer compatibility, edge and grating coupling support, RF/DC/optical co-test, automated probe and fiber calibration, and SECS/GEM-ready production cells. VCSEL and laser-diode test systems are moving toward higher pulsed current, shorter pulse width, wider temperature range and combined LIV, spectrum, near-field and far-field characterization. Regional supply-chain localization will create opportunities for Chinese and Asian vendors, but the leading production platforms will still be defined by customer qualification history, uptime, alignment stability and installed-base learning.

This report is a detailed and comprehensive analysis for global Photonic Chip KGD Test and Sorting Systems market. Both quantitative and qualitative analyses are presented by company, 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 Photonic Chip KGD Test and Sorting Systems market size and forecasts, in

Global Photonic Chip KGD Test and Sorting Systems Market 2026 by Company, Regions, Type and Application, Forec...

consumption value (\$ Million), 2021-2032

Global Photonic Chip KGD Test and Sorting Systems market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Photonic Chip KGD Test and Sorting Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Photonic Chip KGD Test and Sorting Systems market shares of main players, in revenue (\$ Million), 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 Photonic Chip KGD Test and Sorting Systems

- 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 Photonic Chip KGD Test and Sorting Systems 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 FormFactor, Inc., Teradyne, Inc., Advantest Corporation, Tokyo Electron Limited, Keysight Technologies, Inc., RoboTechnik Intelligent Technology Co., Ltd., MPI Corporation, Chroma ATE Inc., Konica Minolta, Inc., SPEA S.p.A., etc.

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

Market segmentation

Photonic Chip KGD Test and Sorting Systems 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. This

analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Wafer-level Test System

Die-level KGD Test System

Other Customized System

Market segment by Optical Coupling Method

Grating Coupling

Edge Coupling

Free-space Coupling

Hybrid Coupling

Other

Market segment by Test Function

Optical Test

Electrical Test

RF / High-speed Test

Thermal Test

Other

Market segment by Automation Level

Manual Test System

Semi-automatic Test System

Fully Automatic Test System

Market segment by Application

Optical Communications

Data Center & AI Computing

Advanced Semiconductor Packaging

Consumer Electronics

Medical & Biophotonics

R&D and Engineering Validation

Defense & Aerospace Optoelectronics

Market segment by players, this report covers

FormFactor, Inc.

Teradyne, Inc.

Advantest Corporation

Tokyo Electron Limited

Keysight Technologies, Inc.

RoboTechnik Intelligent Technology Co., Ltd.

MPI Corporation

Chroma ATE Inc.

Konica Minolta, Inc.

SPEA S.p.A.

Aehr Test Systems

EXFO Inc.

Pentamaster Corporation Berhad

FitTech Co., Ltd.

Enlitech Co., Ltd.

SEMISHARE

Semight Instruments Co., Ltd.

Alphax Co., Ltd.

Yuasa Electronics Co., Ltd.

Wuhan Precise Electronics Co., Ltd.

Hebei THAHOO Optoelectronics Technology Co., Ltd.

SemiProbe, Inc.

Opto System Co., Ltd.

Synos Technology, Inc.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Global Photonic Chip KGD Test and Sorting Systems Market 2026 by Company, Regions, Type and Application, Forec...

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Photonic Chip KGD Test and Sorting Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Photonic Chip KGD Test and Sorting Systems, with revenue, gross margin, and global market share of Photonic Chip KGD Test and Sorting Systems from 2021 to 2026.

Chapter 3, the Photonic Chip KGD Test and Sorting Systems competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Photonic Chip KGD Test and Sorting Systems market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Photonic Chip KGD Test and Sorting Systems.

Chapter 13, to describe Photonic Chip KGD Test and Sorting Systems research

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