

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Semiconductor Known Good Die (KGD) Test and Sorting System market size is expected to reach \$ 451 million by 2032, rising at a market growth of 14.2% CAGR during the forecast period (2026-2032).

A Power Semiconductor Known Good Die (KGD) Test and Sorting System is a dedicated semiconductor test and automation platform used after wafer dicing and before module assembly or advanced packaging to identify, classify and trace electrically good bare power dies. The system typically integrates a power device tester, KGD die handler or test cell, high-voltage and high-current contacting, thermal control, vision inspection, motion control, binning software and wafer-map or MES data interfaces. It is primarily used for SiC MOSFETs, SiC Schottky diodes, GaN HEMTs, IGBTs, power MOSFETs and other power semiconductor dies. Its key role is to screen Known Good Die before high-value packaging, thereby improving module yield, reducing rework and scrap cost, and strengthening reliability control in automotive traction inverters, renewable-energy inverters, energy storage systems, industrial drives, EV charging, server power supplies and other high-reliability power electronics applications.

Based on our analysis, the Power Semiconductor KGD Test and Sorting System market should be understood as a specialized yield-control equipment segment rather than a conventional general-purpose semiconductor tester market. Its importance rises as SiC and GaN power devices move into high-value, high-reliability power modules. In these applications, a single weak die can compromise the yield and reliability of an entire module, making bare-die screening before packaging economically valuable. The core function of a KGD system is therefore not only electrical testing, but also the integration

of high-voltage and high-current test capability, low-inductance contacting, thermal conditioning, optical inspection, die handling, binning and traceability.

From the demand side, the strongest growth drivers come from automotive traction inverters, renewable-energy inverters, energy storage, industrial drives, EV charging infrastructure and high-density power supplies for data centers. These applications impose strict reliability and traceability requirements on SiC MOSFETs, SiC diodes, GaN HEMTs, IGBTs and other power semiconductor dies. As wide-bandgap devices scale and module makers push for better pre-packaging yield control, KGD testing is likely to shift from a selective high-end process to a more standardized step in advanced power semiconductor manufacturing.

From the technology roadmap perspective, competition will increasingly focus on low-inductance probe/contact architectures, fast protection during high-current and short-circuit testing, stable hot-test capability, higher throughput, multi-site handling, optical metrology and data integration with wafer maps and factory systems. New product launches from major suppliers indicate that the industry is moving away from ad hoc combinations of separate testers and handlers toward integrated KGD test cells designed specifically for power semiconductor bare dies.

This report studies the global Power Semiconductor Known Good Die (KGD) Test and Sorting System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Semiconductor Known Good Die (KGD) Test and Sorting System, 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 Power Semiconductor Known Good Die (KGD) Test and Sorting System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System total market, 2021-2032, (USD Million)

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Power Semiconductor Known Good Die (KGD) Test and Sorting System total market, key domestic companies, and share, (USD Million)

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System total market by Type, CAGR, 2021-2032, (USD Million)

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Power Semiconductor Known Good Die (KGD) Test and Sorting System 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 Advantest Corporation, Cohu, Inc., SPEA S.p.A., Pentamaster Corporation Berhad, Semight Instruments Co., Ltd., Microtest Group, OSAI Automation Systems S.p.A. SB, PowerTECH Co., Ltd., Macrotest Semiconductor Technology Co., Ltd., Top-Leading Intelligent Equipment, 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 Power Semiconductor Known Good Die (KGD) Test and Sorting System 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 Power Semiconductor Known Good Die (KGD) Test and Sorting System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System Market,
Segmentation by Type:

Integrated KGD Test Cell

Other

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System Market,
Segmentation by Temperature Capability:

Room-Temperature Test

Hot Test

Cold Test

Other

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System Market,
Segmentation by Contacting Method:

Top-Side Contact

Bottom-Side Contact

Double-Sided Contact

Kelvin Contact

Other

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System Market,
Segmentation by Automation Level:

Manual / Semi-Automatic System

Fully Automatic Standalone System

Other

Global Power Semiconductor Known Good Die (KGD) Test and Sorting System Market,
Segmentation by Application:

Industrial Automation

Consumer Power Electronics

Aerospace and Defense Electronics

Semiconductor Manufacturing

Other

Companies Profiled:

Advantest Corporation

Cohu, Inc.

SPEA S.p.A.

Pentamaster Corporation Berhad

Semight Instruments Co., Ltd.

Microtest Group

OSAI Automation Systems S.p.A. SB

PowerTECH Co., Ltd.

Macrotest Semiconductor Technology Co., Ltd.

Top-Leading Intelligent Equipment

UniSiC Technology (Shanghai) Co., Ltd.

Shenzhen Huaxin Intelligent Equipment Co., Ltd.

Sharetek Technology Co., Ltd.

POMME Technologies Co., Ltd.

NEXUSTEST Pte. Ltd.

Key Questions Answered

1. How big is the global Power Semiconductor Known Good Die (KGD) Test and Sorting System market?
2. What is the demand of the global Power Semiconductor Known Good Die (KGD) Test and Sorting System market?
3. What is the year over year growth of the global Power Semiconductor Known Good Die (KGD) Test and Sorting System market?
4. What is the total value of the global Power Semiconductor Known Good Die (KGD) Test and Sorting System market?
5. Who are the Major Players in the global Power Semiconductor Known Good Die (KGD) Test and Sorting System market?
6. What are the growth factors driving the market demand?

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