

# Global Semiconductor Wafer-level and Advanced Packaging Inspection Systems Market Growth 2025-2031

<https://marketpublishers.com/r/G8394A22B20CEN.html>

Date: June 2026

Pages: 98

Price: US\$ 3,660.00 (Single User License)

ID: G8394A22B20CEN

## Abstracts

The global Semiconductor Wafer-level and Advanced Packaging Inspection Systems market size is predicted to grow from US\$ 402 million in 2025 to US\$ 540 million in 2031; it is expected to grow at a CAGR of 5.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Wafer Level Packaging (WLP) is combining wafer manufacturing and device encapsulation technologies. WLP is a chip-scale-packaging technology where many IC's can be stacked together using suitable interconnect processes (like TSV or metal bumps) followed by encapsulation. Advanced Packaging Inspection Systems is designed to inspect advanced wafer-level packaging process steps, providing information on the full range of defect types for inline process control through multi-mode optics and sensors and advanced defect detection algorithms. Wafer Level Packaging (WLP) is combining wafer manufacturing and device encapsulation technologies. WLP is a chip-scale-packaging technology where many IC's can be stacked together using suitable interconnect processes (like TSV or metal bumps) followed by encapsulation. Wafer Level Packaging Inspection Systems is designed to inspect advanced wafer-level packaging process steps, providing information on the full range of defect types for inline process control through multi-mode optics and sensors and advanced defect detection algorithms.

According to our Semiconductor Research Center, in 2022, the global semiconductor equipment was valued at US\$ 109 billion. China mainland, China Taiwan and South

Korea have a combined market share over 70%. North America, Europe and Japan, have a combined market share of 23%. The key drivers are high performance computing, AI, cloud computing, Servers, 5G and EV (electric vehicle), etc.

LP Information, Inc. (LPI) ' newest research report, the “Semiconductor Wafer-level and Advanced Packaging Inspection Systems Industry Forecast” looks at past sales and reviews total world Semiconductor Wafer-level and Advanced Packaging Inspection Systems sales in 2024, providing a comprehensive analysis by region and market sector of projected Semiconductor Wafer-level and Advanced Packaging Inspection Systems sales for 2025 through 2031. With Semiconductor Wafer-level and Advanced Packaging Inspection Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor Wafer-level and Advanced Packaging Inspection Systems industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor Wafer-level and Advanced Packaging Inspection Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Semiconductor Wafer-level and Advanced Packaging Inspection Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semiconductor Wafer-level and Advanced Packaging Inspection Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Wafer-level and Advanced Packaging Inspection Systems and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Semiconductor Wafer-level and Advanced Packaging Inspection Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor Wafer-level and Advanced Packaging Inspection Systems market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Optical Based

Infrared Type

**Segmentation by Application:**

OSAT

IDM

Foundry

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

KLA

Onto Innovation

Semiconductor Technologies & Instruments (STI)

Cohu

Camtek

Intekplus

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Semiconductor Wafer-level and Advanced Packaging Inspection Systems market?

What factors are driving Semiconductor Wafer-level and Advanced Packaging Inspection Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Semiconductor Wafer-level and Advanced Packaging Inspection Systems market opportunities vary by end market size?

How does Semiconductor Wafer-level and Advanced Packaging Inspection Systems break out by Type, by Application?

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