

Global Wafer Sorting & Metrology Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wafer Sorting & Metrology Equipment market size is expected to reach \$ 7745 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Wafer sorting and metrology equipment refers to semiconductor manufacturing systems used for wafer handling, sorting, inspection, and dimensional measurement. Unlike basic material handling equipment, these systems integrate robotics, optical inspection, and precision measurement technologies to enable critical functions including wafer mapping, bin sorting, defect detection, surface topography measurement, and electrical performance testing. Key equipment categories include wafer sorters (automated systems for sorting wafers by test results), macro defect inspection systems (for detecting surface defects), and metrology systems (for measuring flatness, thickness, critical dimensions, and film thickness). Major metrology techniques include interferometry (flatness measurement), scatterometry (critical dimension measurement), confocal microscopy (surface roughness), and ellipsometry (film thickness). These systems are essential for process control, yield enhancement, and quality assurance throughout IC manufacturing and advanced packaging. From a value chain perspective, upstream includes precision robotics manufacturers, optical component suppliers, motion control system providers, and measurement sensor developers; midstream involves equipment integration, software development (including AI-based defect recognition), calibration, and qualification testing; downstream demand spans semiconductor foundries, IDMs, OSAT providers, MEMS manufacturers, and R&D laboratories. In 2025, the average selling price is approximately US\$850,000 per unit, global sales volume is about 5,200 units, and gross margins generally range from 45% to 55%, driven by precision component costs (high-resolution industrial cameras, optical lenses, motion control platforms), optical system complexity, and semiconductor

industry quality requirements .

The wafer sorting and metrology equipment market is experiencing robust growth driven by the expansion of advanced semiconductor nodes and the increasing complexity of chip architectures. As the industry progresses toward 3nm and below, wafer defect control has become critical for yield and cost management, elevating inspection and sorting equipment from auxiliary tools to essential yield-critical equipment .

Advanced Packaging as a Primary Growth Driver

The expansion of advanced packaging technologies including fan-out wafer-level packaging, 3D-IC, system-in-package, and chiplet architectures requires multiple wafer sorting and inspection steps throughout the assembly flow. These applications demand sorting at both wafer and die levels with stringent particle and contamination control, directly driving equipment demand per device.

The Shift Toward AI-Powered Metrology and Inspection

Artificial intelligence has transformed wafer inspection and metrology, enabling defect classification, pattern recognition, and predictive process control. The market is shifting from traditional optical inspection toward 'multi-modal + AI' approaches, combining high-resolution optics, bright-field/dark-field imaging, electron beam review, and AI algorithms . Advanced nodes require sub-micron and even nanometer-level defect identification, significantly raising technology barriers and increasing per-unit equipment value.

This report studies the global Wafer Sorting & Metrology Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wafer Sorting & Metrology Equipment 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 Wafer Sorting & Metrology Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wafer Sorting & Metrology Equipment total production and demand, 2021-2032, (Units)

Global Wafer Sorting & Metrology Equipment total production value, 2021-2032, (USD

Million)

Global Wafer Sorting & Metrology Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Wafer Sorting & Metrology Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Wafer Sorting & Metrology Equipment domestic production, consumption, key domestic manufacturers and share

Global Wafer Sorting & Metrology Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Wafer Sorting & Metrology Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Wafer Sorting & Metrology Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Wafer Sorting & Metrology Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KLA Corporation, Tokyo Seimitsu Co., Ltd. (Accretech), Disco Corporation, Microtronic, NADAtch, Semilab, Isra Vision, TT Vision Holdings Berhad, Rudolph Technologies, Inc., Quatek, 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 Wafer Sorting & Metrology Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, 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 Wafer Sorting & Metrology Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wafer Sorting & Metrology Equipment Market, Segmentation by Type:

Semi-automatic

Fully Automatic

Global Wafer Sorting & Metrology Equipment Market, Segmentation by Throughput:

Low Throughput (
Medium Throughput (50-150 wafers/hour)

High Throughput (> 150 wafers/hour)

Global Wafer Sorting & Metrology Equipment Market, Segmentation by Wafer Size Compatibility:

50-150mm (Small Diameter)

200mm (8-inch)

300mm (12-inch)

Multi-Size / Bridge Tool

Global Wafer Sorting & Metrology Equipment Market, Segmentation by Application:

Photovoltaic

Semiconductor

Companies Profiled:

KLA Corporation

Tokyo Seimitsu Co., Ltd. (Accretech)

Disco Corporation

Microtronic

NADAtch

Semilab

Isra Vision

TT Vision Holdings Berhad

Rudolph Technologies, Inc.

Qatek

Nuo Dekai (Suzhou) Intelligent Equipment Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Wuxi Autowell Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Wafer Sorting & Metrology Equipment market?
2. What is the demand of the global Wafer Sorting & Metrology Equipment market?
3. What is the year over year growth of the global Wafer Sorting & Metrology Equipment market?
4. What is the production and production value of the global Wafer Sorting & Metrology Equipment market?
5. Who are the key producers in the global Wafer Sorting & Metrology Equipment market?
6. What are the growth factors driving the market demand?

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