

# Global Semiconductor Surface Inspection Instrument Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Semiconductor Surface Inspection Instrument market size is expected to reach \$ 2023.5 million by 2029, rising at a market growth of 7.6% CAGR during the forecast period (2023-2029).

Semiconductor devices continue to grow in performance and complexity without increasing cost or loss. This is largely due to the semiconductor manufacturing industry's ability to continually shrink device features, allowing more components (mainly transistors) to be packed into smaller packages. For fifty years, CPU technology has followed Moore's Law, which states that the number of components per integrated circuit will double every year. As devices shrink in size, smaller particles can damage or 'kill' components. These 'fatal flaws' must be detected during the manufacturing process and corrective actions taken to achieve and maintain high manufacturing yields. Surface inspection systems are an integral part of advanced process control (APC) used in semiconductor integrated circuit manufacturing to find defects on wafer and reticle surfaces.

The surface defect detection equipment condenses a number of advanced technology applications in the field of machine vision, and uses optical principles to detect possible defects on the product surface through image processing and analysis. When there is a defect in the inspected product, the gray value of the image at the defect is different from the gray value of the standard image. By extracting and selecting the features of the defect image, and then comparing the gray value of the defect image with the gray value of the standard image, it is judged whether the difference exceeds the preset threshold range, thereby judging the detected Whether the product is defective. This is a basic method for surface blemish detection. In the specific detection process, firstly, the CCD industrial camera converts the ingested target into an image signal, transmits it

to a dedicated image processing system, and converts it into a digital signal according to the pixel distribution, brightness, color and other information. Then the image system performs various operations on these signals to extract the characteristics of the target, such as: area, length, quantity, position, etc. Output results according to preset tolerances and other conditions, such as: defect, size, angle, offset, number, pass/fail, yes/no, etc.

This report studies the global Semiconductor Surface Inspection Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Surface Inspection Instrument, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Surface Inspection Instrument that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Surface Inspection Instrument total production and demand, 2018-2029, (K Units)

Global Semiconductor Surface Inspection Instrument total production value, 2018-2029, (USD Million)

Global Semiconductor Surface Inspection Instrument production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Semiconductor Surface Inspection Instrument consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Semiconductor Surface Inspection Instrument domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Surface Inspection Instrument production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Semiconductor Surface Inspection Instrument production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Semiconductor Surface Inspection Instrument production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global Semiconductor Surface Inspection Instrument 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 AMETEK, Nordson, Vitronic GmbH, Omron, IMS Messsysteme GmbH, ISRA VISION AG, Synergx, Perceptron and Inovision, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Surface Inspection Instrument market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Semiconductor Surface Inspection Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Semiconductor Surface Inspection Instrument Market, Segmentation by Type

Visual Inspection Equipment

Reflective Structured Light Equipment

## Global Semiconductor Surface Inspection Instrument Market, Segmentation by Application

Semiconductor Industry

Others

## Companies Profiled:

AMETEK

Nordson

Vitronic GmbH

Omron

IMS Messsysteme GmbH

ISRA VISION AG

Synergx

Perceptron

Inovision

Dark Field Technologies

Hitachi High-Tech

Baumer Inspection

Icemi

AUTIS Engineering

### Key Questions Answered

1. How big is the global Semiconductor Surface Inspection Instrument market?
2. What is the demand of the global Semiconductor Surface Inspection Instrument market?
3. What is the year over year growth of the global Semiconductor Surface Inspection Instrument market?
4. What is the production and production value of the global Semiconductor Surface Inspection Instrument market?
5. Who are the key producers in the global Semiconductor Surface Inspection Instrument market?
6. What are the growth factors driving the market demand?

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