

# Global Automated Probe Systems Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Automated Probe Systems market size is expected to reach \$ 1510.4 million by 2029, rising at a market growth of 7.2% CAGR during the forecast period (2023-2029).

Automated Probe systems are semiconductor test equipment widely used in the testing and evaluation of chips and devices. Currently, the global automated probe station market is growing rapidly and is expected to continue its growth in the next few years.

There are many Automated Probe systems suppliers and manufacturers in the market, mainly concentrated in America, Europe and Asia. There are a large number of automatic probe station manufacturers in the Asian region, occupying a major share of the overall market.

The major drivers of the automated probe systems market are the growth of the semiconductor industry and the continuous introduction of new technologies. With the continuous development of technology, people's demand for testing and evaluation of chips and devices continues to grow. Therefore, the market demand for Automated Probe systems will continue to maintain a steady growth trend in the next few years.

In addition, the hardware and software technologies of Automated Probe systems are continuously updated and upgraded, which further improves the test efficiency and accuracy of Automated Probe systems. This will also further promote the development of the Automated Probe systems market.

In general, the Automated Probe systems market will maintain a steady growth trend in the next few years, and will continue to update and upgrade technologies to meet

market demands.

The probe station is one of the important testing equipment in the semiconductor (including integrated circuits, discrete devices, optoelectronic devices, sensors) industry. It is widely used in the precision electrical measurement of complex and high-speed devices, aiming to ensure quality and reliability, and reduce time and cost of the device fabrication process. By cooperating with the test equipment, the probe station records the chips whose parameter characteristics do not meet the requirements, and removes them before entering the subsequent process, which greatly reduces the manufacturing cost of the device. The probe station is mainly used for applications such as wafer inspection, chip development and failure analysis in the wafer manufacturing process.

Semiconductor testing can be divided into three categories according to the production process: verification testing, wafer testing and packaging testing. The wafer inspection process requires the use of a tester and a probe station. The tester/machine is used to test the function and performance of the chip. The probe station realizes the connection between the chip under test and the tester. The bare chip on the circle is tested for function and electrical parameters or radio frequency test, which can screen the good and bad products of the chip.

The probe station can place electrical probes, optical probes or radio frequency probes on silicon wafers, so that it can cooperate with test instruments/semiconductor test systems to test chips/semiconductor devices. These tests can be simple, such as continuity or isolation checks, or complex, including full functional testing of microcircuits. Testing can be performed before or after sawing the wafer into individual dies. Testing at the wafer level allows manufacturers to test chip devices multiple times during production, which can provide information on which process steps introduce defects into the final product. It also enables manufacturers to test dies before packaging, which is important in applications where packaging costs are high relative to device costs. Probe stations can also be used in R&D, product development, and failure analysis applications.

The probe station can hold the wafer or chip and precisely position the DUT. The user of the manual probe station mounts the probe arm and probe into the manipulator and uses the microscope to place the probe tip in the correct position on the object to be tested. Once all probe tips are set in the correct position, the object under test can be tested. For wafers with multiple chips, the user lifts the platen, which separates the probe tip from the chip, moves the stage to the next chip, uses a microscope to find the

exact position, and lowers the platen. A chip can be tested. Semi-automatic and fully automatic prober systems use mechanized tables and machine vision to automate this moving process, increasing prober productivity.

This report studies the global Automated Probe Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automated Probe Systems, 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 Automated Probe Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automated Probe Systems total production and demand, 2018-2029, (Units)

Global Automated Probe Systems total production value, 2018-2029, (USD Million)

Global Automated Probe Systems production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Automated Probe Systems consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Automated Probe Systems domestic production, consumption, key domestic manufacturers and share

Global Automated Probe Systems production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Automated Probe Systems production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Automated Probe Systems production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units)

This reports profiles key players in the global Automated Probe Systems 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 Tokyo Electron, Tokyo Seimitsu, Semics, Fittech, Shen Zhen Sidea, FormFactor, MPI, Micronics Japan and Semishare, 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 Automated Probe Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Automated Probe Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automated Probe Systems Market, Segmentation by Type

Semi-Automated Probe Stations

Fully-Automated Probe Stations

## Global Automated Probe Systems Market, Segmentation by Application

IDMs

OSAT

Research Institute

Others

## Companies Profiled:

Tokyo Electron

Tokyo Seimitsu

Semics

Fittech

Shen Zhen Sidea

FormFactor

MPI

Micronics Japan

Semishare

MarTek (Electroglas)

Micromanipulator

Signatone

HiSOL

Wentworth Laboratories

SemiProbe

APOLLOWAVE

MicroXact

KeithLink Technology

Shenzhen Cindbest Technology

ESDEMC Technology

### Key Questions Answered

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

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