

Global Semiconductor Probe Station Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Semiconductor Probe Station market size is expected to reach \$ 1889.1 million by 2029, rising at a market growth of 7.2% CAGR during the forecast period (2023-2029).

Global key players of semiconductor probe station include Tokyo Electron, Tokyo Seimitsu, Fittech, Semics and Shen Zhen Sidea. The top three players hold a share nearly 70%.

Asia-Pacific is the largest market, with a share about 75%, followed by North America and Europe, with the share about 15% and 8%. By product type, Auto Probe Stations are the largest segmented market, with a market share of nearly 50%; Meanwhile, in terms of downstream, OSAT is the largest downstream field.

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 Semiconductor Probe Station production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Semiconductor Probe Station total production and demand, 2018-2029, (Units)

Global Semiconductor Probe Station total production value, 2018-2029, (USD Million)

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

Global Semiconductor Probe Station consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Semiconductor Probe Station domestic production, consumption, key domestic manufacturers and share

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

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

Global Semiconductor Probe Station production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K USD/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 Probe Station Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Probe Station Market, Segmentation by Type

Manual Probe Station

Semi Auto Probe Station

Auto Probe Station

Global Semiconductor Probe Station Market, Segmentation by Application

IDMs

OSAT

Research Institute

Others

Companies Profiled:

Tokyo Seimitsu

Tokyo Electron

Semics

Fittech

Shen Zhen Sidea

FormFactor

Semishare

MPI

Micronics Japan

Lake Shore Cryotronics

Everbeing Int'l

MarTek (Electroglass)

Micromanipulator

Signatone

HiSOL

KeyFactor Systems

Wentworth Laboratories

APOLLOWAVE

SemiProbe

MicroXact

KeithLink Technology

Ecopia

Shenzhen Cindbest Technology

ESDEMC Technology

Key Questions Answered

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

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