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Global Fully Automatic Probe Stations Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Fully Automatic Probe Stations market size is expected to reach $ 1904 million by 2029, rising at a market growth of 5.6% CAGR during the forecast period (2023-2029).

Global key players of fully automatic probe stations include Tokyo Seimitsu, Tokyo Electron, Semics, etc. The top two players hold a share over 65%.

Asia-Pacific is the largest market, has a share about 78%, followed by North America and Europe, with share 11% and 7%, separately.

In terms of product type, ball screw linear translation stage is the largest segment, occupied for a share of 63%, and in terms of application, OSAT has a share about 63 percent.

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.

IDMs testing can be divided into three categories according to the production process:

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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.

A Fully Automatic Probe Station, often referred to simply as an 'Automatic Probe Station,' is a specialized piece of equipment used in semiconductor and microelectronics testing and characterization. It is designed to automate the process of probing and testing semiconductor devices, integrated circuits (ICs), microchips, and other electronic components. Compared with manual and semi-automatic probe stations, the fully automatic probe station adds a wafer material handling unit (MHU) and pattern recognition (automatic alignment). Responsible for the transportation and positioning of wafers, so that the dies on the wafers come into contact with the probes in turn and are tested one by one. It can work continuously for 24 hours and is usually used for chip mass production or has some special requirements such as processing thin wafers, packaging substrates, etc.

This report studies the global Fully Automatic Probe Stations production, demand, key manufacturers, and key regions.

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

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Highlights and key features of the study

Global Fully Automatic Probe Stations total production and demand, 2018-2029, (Units)

Global Fully Automatic Probe Stations total production value, 2018-2029, (USD Million)

Global Fully Automatic Probe Stations production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Fully Automatic Probe Stations consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Fully Automatic Probe Stations domestic production, consumption, key domestic manufacturers and share

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

Global Fully Automatic Probe Stations production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Fully Automatic Probe Stations production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Fully Automatic Probe Stations 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, Shen Zhen Sidea, FitTech, FormFactor, MPI, Semishare Electronic and MarTek (Electroglas), 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 Fully Automatic Probe Stations market.

Detailed Segmentation:

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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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Fully Automatic Probe Stations Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Fully Automatic Probe Stations Market, Segmentation by Type

- Plane Stepper Motor XY-Stage
- Ball Screw Linear Translation Stage

Global Fully Automatic Probe Stations Market, Segmentation by Application

- IDMs
- OSAT

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Others

Companies Profiled:

Tokyo Seimitsu

Tokyo Electron

Semics

Shen Zhen Sidea

FitTech

FormFactor

MPI

Semishare Electronic

MarTek (Electroglas)

MicroXact

Wentworth Laboratories

SemiProbe

ESDEMC Technology

Key Questions Answered

1. How big is the global Fully Automatic Probe Stations market?

2. What is the demand of the global Fully Automatic Probe Stations market?

3. What is the year over year growth of the global Fully Automatic Probe Stations

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market?

4. What is the production and production value of the global Fully Automatic Probe Stations market?

5. Who are the key producers in the global Fully Automatic Probe Stations market?

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