

Global Fully Automatic Probe Stations Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Fully Automatic Probe Stations market size was valued at USD 1303.7 million in 2023 and is forecast to a readjusted size of USD 1904 million by 2030 with a CAGR of 5.6% during review period.

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: 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.

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 Global Info Research report includes an overview of the development of the Fully Automatic Probe Stations industry chain, the market status of IDMs (Plane Stepper Motor XY-Stage, Ball Screw Linear Translation Stage), OSAT (Plane Stepper Motor XY-Stage, Ball Screw Linear Translation Stage), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fully Automatic Probe Stations.

Regionally, the report analyzes the Fully Automatic Probe Stations markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Fully Automatic Probe Stations market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Fully Automatic Probe Stations market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Fully Automatic Probe Stations industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Plane Stepper Motor XY-Stage, Ball Screw Linear Translation Stage).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Fully Automatic Probe Stations market.

Regional Analysis: The report involves examining the Fully Automatic Probe Stations market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Fully Automatic Probe Stations market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Fully Automatic Probe Stations:

Company Analysis: Report covers individual Fully Automatic Probe Stations manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios,

partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Fully Automatic Probe Stations. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (IDMs, OSAT).

Technology Analysis: Report covers specific technologies relevant to Fully Automatic Probe Stations. It assesses the current state, advancements, and potential future developments in Fully Automatic Probe Stations areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Fully Automatic Probe Stations market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Fully Automatic Probe Stations market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Plane Stepper Motor XY-Stage

Ball Screw Linear Translation Stage

Market segment by Application

IDMs

OSAT

Others

Major players covered

Tokyo Seimitsu

Tokyo Electron

Semics

Shen Zhen Sidea

FitTech

FormFactor

MPI

Semishare Electronic

MarTek (Electroglas)

MicroXact

Wentworth Laboratories

SemiProbe

ESDEMC Technology

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Fully Automatic Probe Stations product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fully Automatic Probe Stations, with price, sales, revenue and global market share of Fully Automatic Probe Stations from 2019 to 2024.

Chapter 3, the Fully Automatic Probe Stations competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fully Automatic Probe Stations breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Fully Automatic Probe Stations market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Fully Automatic Probe Stations.

Chapter 14 and 15, to describe Fully Automatic Probe Stations sales channel,

distributors, customers, research findings and conclusion.

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