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Global Automatic Semiconductor Probe Station Market Research Report 2026(Status and Outlook)

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Abstracts

A probe station is a device used to detect the electrical characteristics of a wafer during semiconductor development and manufacturing. Electrical testing involves sending test signals from a tester or tester to each device on the wafer through a probe or probe card, and obtaining signal feedback from each device. Automatic Semiconductor Probe Station is a type of semiconductor testing equipment. Its main function is to achieve automatic alignment and contact between the probe and the test point on the wafer or chip to perform electrical characteristic measurement, functional testing or other related analysis.At present, the explosive growth of global demand for artificial intelligence (AI) and high-performance computing (HPC) has accelerated the development progress of cutting-edge technologies, the commercialization of products, market development, and the layout of the industrial chain, effectively driving the market demand for related computing power and storage chips. After two years of technological improvements and ecological construction, emerging consumer electronic products such as smart wearable devices and smart homes have given birth to hot products such as AppleVision, becoming an important driving force for the growth of the semiconductor market. Automotive electronics, lithium batteries, photovoltaics and other previous high-speed growth fields have entered a critical window period for technology route selection and technology pattern reconstruction. New formats and models such as industrial Internet, smart medical care, and smart cities are accelerating their transformation, empowering social development and bringing about an increase in overall semiconductor market demand. According to statistics from the World Integrated Circuit Association (WICA), the global semiconductor market size in 2024 was about US$620.2 billion, a year-on-year increase of 17%.From the perspective of product structure, it is expected that the two main integrated circuit categories will drive market growth with double-digit growth, with logic chips expected to grow by 21% and memory expected to grow by 61.3%. Other categories such as discrete devices, optoelectronic devices,

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sensors and analog chips are expected to have a negative growth of 2%-10%. Thanks to the surge in demand for computing chips from AI big models such as ChatGPT, the market growth rate of logic chips such as GPU, FPGA, and ASIC in 2024 will be 4 percentage points higher than the industry average. The current market demand for Hopper remains strong, and AI manufacturers expect continued growth in Blackwell. With the repeated computing upgrades of AI big models, the market demand for high-performance logic chips will continue to rise in the future. By 2030, the semiconductor market size is expected to reach US$1 trillion, with a compound annual growth rate of approximately 8%.Wafer testing is an important step performed during the manufacturing process of semiconductor devices. In this step, which is performed before the wafer is sent to chip preparation, all individual integrated circuits present on the wafer are tested for functional defects by applying special test patterns to them. Automatic Semiconductor Probe Station are usually responsible for loading and unloading wafers from carriers and are equipped with automatic pattern recognition optics that can align wafers with sufficient accuracy to ensure accurate alignment between contact pads on the wafer and probe tips. For electrical testing, a set of microscopic contacts or probes of a probe card are fixed in place while the wafer vacuum-mounted on the wafer chuck is moved into electrical contact. When a die is electrically tested, the probe station moves the wafer to the next die and the next test begins. In the chip manufacturing and testing process, Automatic Semiconductor Probe Station are used for wafer-level testing, which can detect defective chips in a timely manner and play a vital role in chip manufacturing. According to our data, the global sales of Automatic Semiconductor Probe Station will be 14,000 units in 2024, and it is expected to exceed 20,000 units by 2030, with a compound annual growth rate of approximately 6.4%.In the global competition landscape of Automatic Semiconductor Probe Station, Tokyo Seimitsu, Tokyo Electron, and Semis occupy a large market share, with CR3 reaching 70% in 2024, and the market concentration is relatively high. The manufacturers of Automatic Semiconductor Probe Station in China (including Taiwan) are mainly Shen Zhen Sidea, FitTech, etc.; in the Chinese market, high-end Automatic Semiconductor Probe Station are dominated by imports from the international market (Tokyo Seimitsu, Tokyo Electron, Semis, etc.), and low-end and mid-end products have begun to form a trend of domestic substitution. As the country pays more and more attention to independent technology research and development and policy support, it is expected that the domestic market will have great potential in the future.Automatic Semiconductor Probe Station can be divided into two categories according to the structure of the workbench: Ball Screw Linear Translation Stage and Plane Stepper Motor XY-Stage, namely: Plane Stepper Motor XY-Stage probe stations represented by American companies and Ball Screw Linear Translation Stage probe stations produced in Japan and European countries. According to our data, in 2024, the

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market share of Automatic Semiconductor Probe Station in the Ball Screw Linear Translation Stage will exceed 65%, and the share will continue to grow.The downstream customers of the Automatic Semiconductor Probe Station industry chain mainly include integrated device manufacturers (IDMs), outsourced packaging and testing companies (OSATs), etc. According to research, OSATs currently account for more than 60% of the market share. In general, the growth in demand for Automatic Semiconductor Probe Station ultimately depends on the growth in the application range of chips, the increase in chip demand, the diversification of chip design models by chip design companies, and the change in the number of chips produced by foundries.The advantages of Automatic Semiconductor Probe Station are their high degree of automation, high precision and versatility, which can greatly improve test efficiency and accuracy. However, with the continuous development of semiconductor technology, the requirements for test equipment are also getting higher and higher. Therefore, Automatic Semiconductor Probe Station need to be continuously updated and upgraded to adapt to new test needs and challenges.

The global Automatic Semiconductor Probe Station market size was estimated at USD 1271.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Automatic Semiconductor Probe Station market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Automatic Semiconductor Probe Station market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone

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planning to enter or expand their presence in the Automatic Semiconductor Probe Station market.

Global Automatic Semiconductor Probe Station Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Tokyo Seimitsu
Tokyo Electron
Semics
Shen Zhen Sidea
FitTech
FormFactor
MPI
Semishare Electronic
MarTek (Electroglas)
MicroXact
Wentworth Laboratories
SemiProbe
ESDEMC Technology
STAR TECHNOLOGIES
Pegasus Instrument
POMME TECHNOLOGIES
Tec Semiconductor Equipment (Shenzhen)
ChangChun Guanghua Micro-Electronic Equipment
Hangzhou Changchuan Technology

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Semipeak
Chengdu Yunyi Zhichuang Technology
Titan Micro Electronics
Jingxin Intelligent Equipment (Suzhou)
LINKPHYSICS
Shanghai Junchen Automation Technology
CETC(45th Research Institutes)

Market Segmentation (by Type)

Ball Screw Linear Translation Stage
Plane Stepper Motor XY-Stage

Market Segmentation (by Application)

IDMs
OSAT
Research Institute
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Automatic Semiconductor Probe Station Market
Overview of the regional outlook of the Automatic Semiconductor Probe Station Market:

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Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Automatic Semiconductor Probe Station Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

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Chapter 9 shares the main producing countries of Automatic Semiconductor Probe Station, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

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Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis
Provides insight into the market through Value Chain
Market dynamics scenario, along with growth opportunities of the market in the years to come
6-month post-sales analyst support

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Contents

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9 AUTOMATIC SEMICONDUCTOR PROBE STATION MARKET PRODUCTION BY REGION

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10 KEY COMPANIES PROFILE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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