

Global Semiconductor Automated Test Equipment (ATE) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G5CDABA9600EN.html>

Date: January 2024

Pages: 117

Price: US\$ 3,480.00 (Single User License)

ID: G5CDABA9600EN

Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Automated Test Equipment (ATE) market size was valued at USD 4075.7 million in 2023 and is forecast to a readjusted size of USD 5001.2 million by 2030 with a CAGR of 3.0% during review period.

Semiconductor Test Equipment consists of a variety of instruments or cards for testing memory, digital, and mixed-signal at the wafer and Packaged stages, and single-chip system (SoC) components that are also in the wafer and Packaged stages. (Note: Advantest completes the acquisition of Semiconductor System Level Test Business from Astronics Corporation at 2019. We separately counted the data of the two companies in the report from 2018 to 2020)

Global Semiconductor Automated Test Equipment (ATE) key players include Teradyne, Advantest, LTX-Credence, Cohu, Astronics, etc. Global top five manufacturers hold a share about 90%. Asia-Pacific is the largest market, with a share about 80%, followed by North America and Europe, total with a share about 20 percent. In terms of product, Wafer ATE is the largest segment, with a share about 60%. And in terms of application, the largest application is Automotive Electronics, followed by Communications, Industrial/Medical, Military/Aviation, Computer, Consumer Electronics, etc.

The Global Info Research report includes an overview of the development of the Semiconductor Automated Test Equipment (ATE) industry chain, the market status of Automotive Electronics (Wafer ATE, Packaged Device ATE), Consumer Electronics (Wafer ATE, Packaged Device ATE), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market

trends of Semiconductor Automated Test Equipment (ATE).

Regionally, the report analyzes the Semiconductor Automated Test Equipment (ATE) 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 Semiconductor Automated Test Equipment (ATE) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Semiconductor Automated Test Equipment (ATE) 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 Semiconductor Automated Test Equipment (ATE) 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., Wafer ATE, Packaged Device ATE).

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 Semiconductor Automated Test Equipment (ATE) market.

Regional Analysis: The report involves examining the Semiconductor Automated Test Equipment (ATE) 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 Semiconductor Automated Test Equipment (ATE) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Semiconductor Automated Test

Equipment (ATE):

Company Analysis: Report covers individual Semiconductor Automated Test Equipment (ATE) 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 Semiconductor Automated Test Equipment (ATE) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive Electronics, Consumer Electronics).

Technology Analysis: Report covers specific technologies relevant to Semiconductor Automated Test Equipment (ATE). It assesses the current state, advancements, and potential future developments in Semiconductor Automated Test Equipment (ATE) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Semiconductor Automated Test Equipment (ATE) 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

Semiconductor Automated Test Equipment (ATE) 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

Wafer ATE

Packaged Device ATE

Market segment by Application

Automotive Electronics

Consumer Electronics

Communications

Computer

Industrial(medical)

Military(Aviation)

Major players covered

Teradyne

Advantest

LTX-Credence

Cohu

Chroma

SPEA

Averna

Shibasoku

ChangChuan

Macrotest

Huafeng

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 Semiconductor Automated Test Equipment (ATE) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor Automated Test Equipment (ATE), with price, sales, revenue and global market share of Semiconductor Automated Test Equipment (ATE) from 2019 to 2024.

Chapter 3, the Semiconductor Automated Test Equipment (ATE) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor Automated Test Equipment (ATE) 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 Semiconductor Automated Test Equipment (ATE) 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 Semiconductor Automated Test Equipment (ATE).

Chapter 14 and 15, to describe Semiconductor Automated Test Equipment (ATE) sales channel, distributors, customers, research findings and conclusion.

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