

Global Semiconductor Automated Test Equipment (ATE) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Automated Test Equipment (ATE) market size is expected to reach \$ 10740 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

Semiconductor Automated Test Equipment (ATE) is a device that provides electrical signals to semiconductor devices and compares the output signals with expected values to check whether they operate as designed. It is also known as ATE (Automated Test Equipment). With the continuous advancement of semiconductor technology, the linewidth dimensions of chips continue to shrink, while their high-voltage resistance, high-temperature resistance, power density, and manufacturing processes become increasingly complex. This has led to higher demands for semiconductor testing equipment. The production of such equipment requires the integration of multiple disciplines, including computer science, automation, communication, electronics, and microelectronics, making it highly technologically sophisticated and valuable.

Semiconductor automated test systems are primarily used to measure parameters such as voltage, current, time, temperature, resistance, capacitance, frequency, pulse width, and duty cycle of semiconductor chips, ensuring that the chips meet functional and performance requirements under various working conditions. These systems can be broadly categorized into two types: semiconductor discrete device test systems and integrated circuit test systems.

The key drivers of the Semiconductor Automated Test Equipment (ATE) market include advancements in semiconductor technology and increasing complexity, driven by emerging applications such as 5G, artificial intelligence (AI), the Internet of Things (IoT), and high-performance computing (HPC), which demand higher precision and efficiency in testing. Additionally, the continuous scaling of chip manufacturing processes (e.g.,

3nm and below) and the adoption of advanced packaging technologies (e.g., Chiplet, 3D IC) have made testing more critical, further boosting ATE market growth. Strong demand from automotive electronics, industrial automation, and data centers is also prompting semiconductor manufacturers to invest more in testing equipment to ensure chip reliability and yield.

Major trends in the ATE market include the increasing intelligence and automation of test systems, such as the use of AI and machine learning (ML) to optimize testing processes for higher speed and accuracy. Modular and scalable test architectures (e.g., PXIe-based systems) are becoming mainstream to accommodate diverse chip testing needs. Another significant trend is the development of test equipment supporting higher frequencies, lower power consumption, and smaller form factors to meet the challenges of testing RF, millimeter-wave (5G/6G), and power semiconductors (e.g., SiC/GaN). Meanwhile, regionalization of semiconductor test equipment supply chains is accelerating due to geopolitical factors and localization efforts.

This report studies the global Semiconductor Automated Test Equipment (ATE) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Automated Test Equipment (ATE) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Automated Test Equipment (ATE) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Automated Test Equipment (ATE) total production and demand, 2021-2032, (Units)

Global Semiconductor Automated Test Equipment (ATE) total production value, 2021-2032, (USD Million)

Global Semiconductor Automated Test Equipment (ATE) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Semiconductor Automated Test Equipment (ATE) consumption by region &

country, CAGR, 2021-2032 & (Units)

U.S. VS China: Semiconductor Automated Test Equipment (ATE) domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Automated Test Equipment (ATE) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Semiconductor Automated Test Equipment (ATE) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Semiconductor Automated Test Equipment (ATE) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Semiconductor Automated Test Equipment (ATE) 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 Advantest, Teradyne, Cohu, Hangzhou Changchuan Technology, YC, Beijing Huafeng Test & Control Technology, Chroma, SPEA, Shibasoku, Macrotest, 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 Semiconductor Automated Test Equipment (ATE) market

Detailed Segmentation:

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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Semiconductor Automated Test Equipment (ATE) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Automated Test Equipment (ATE) Market, Segmentation by Type:

SoC Testers

Memory Testers

Discrete Device Testers

Global Semiconductor Automated Test Equipment (ATE) Market, Segmentation by Application:

Automotive

Consumer

Defense

IT& Telecommunications

Others

Companies Profiled:

Advantest

Teradyne

Cohu

Hangzhou Changchuan Technology

YC

Beijing Huafeng Test & Control Technology

Chroma

SPEA

Shibasoku

Macrotest

PowerTECH

Exicon

TESEC Corporation

UniSiC

NI (SET GmbH)

UNITEST

YTEC

AMIDA

Test Research, Inc.

STATEC

Tektronix

Hitachi Energy

Lorlin Test Systems

JUNO International

ITEC BV

ipTEST Ltd

VX Instruments GmbH

Shandong Prime-rel Electronic Technology

Hefei Kewell Power System

POWORLD Electronic

Shaoxing Hongbang Electronics Technology

Shenzhen Xinkailai Technology

Shenzhen Bronze Technologies

Wei Min Industrial

Key Questions Answered:

1. How big is the global Semiconductor Automated Test Equipment (ATE) market?
2. What is the demand of the global Semiconductor Automated Test Equipment (ATE) market?
3. What is the year over year growth of the global Semiconductor Automated Test Equipment (ATE) market?
4. What is the production and production value of the global Semiconductor Automated

Test Equipment (ATE) market?

5. Who are the key producers in the global Semiconductor Automated Test Equipment (ATE) market?

6. What are the growth factors driving the market demand?

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