

Automated Test Equipment Market by Components, Type, Vertical (Semiconductor Fabrication, Automotive and Transportation, Medical, Aerospace and Defense, Consumer Electronics), and Geography (North America, Europe, APAC, RoW) (2022-2027)

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Abstracts

The automated test equipment market is expected to grow from USD7.0 billion in 2022 to USD 8.8 billion by 2027; it is expected to grow at a CAGR of 4.7% during the forecast period. The major driving factors for the growth of the automated test equipmentmarket include the growing advancement in automotive vertical.

Mass Interconnects to have significant market size of automated test equipmentmarket during the forecast period

The mass interconnect systems used in ATEs play the role of a connecting interface between the test instruments and the DUT. The test instruments include PCI eXtension for instruments (PXI), VME eXtension for instruments (VXI), LAN eXtension for instruments (LXI), general-purpose interface bus (GPIB), signal conditioning extensions for instruments (SCXI), and peripheral component interconnect (PCI). In mass interconnect systems, the receiver on the tester side is mated with an interchangeable test adapter (ITA) on the DUT. Mass interconnect systems find scope in aerospace and defense, industrial, as well as automotive applications. They are available in multiple sizes and configurations. They can, hence, be used virtually for any test requirement. The need for a connection between the ATE system and the DUT is ever-increasing, which proves to be a driving factor.

Integrated Circuit (IC) Testingtype to have the largest market size during the forecast period.

The increasing adoption of ICs by mobile device manufacturers, network equipment manufacturers, and telecommunication service providers is expected to drive the growth prospects of testing equipment. Increased investments in R&D, technological advancements in networking and communication, increased manufacturing activities in developing countries, and rise in demand for electronic products have led to an increase in the need for IC testing equipment.

Europe to grow with significant CAGR during the forecast period.

The European ATE market is further segmented into the UK, Germany, France, Italy, and the Rest of Europe. The European semiconductor industry is showing a favorable trend for the growth of fabrication plants and triggering progression for wafer cleaning equipment. Countries such as Germany, the UK, and Italy are showing significant growth potential owing to the presence of giant semiconductor manufacturers such as STMicroelectronics (Switzerland), Infineon Technologies AG (Germany), and X-FAB Silicon Foundries (Germany). Intel Inc. (US) has upgraded and expanded its fabrication capacity in Ireland and Israel, becoming the top consumer of ATE in these countries. The thriving automotive industry in the region acts as an opportunity for the ATE market. The growth of 4G LTE technology in the region and ongoing developments and smaller deployments of the 5G infrastructure is expected to drive the market for ATE in consumer electronics and other verticals.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key officials in the automated test equipment market. Following is the breakup of the profiles of primary participants for the report.

By Company Type: Tier 1 – 35 %, Tier 2 – 45%, and Tier 3 – 20%

By Designation: C-Level Executives – 35%, Directors- 25%, and Others – 40%

By Region: North America – 45%, APAC – 30%, Europe- 20% and RoW – 5%

The automated test equipment market comprises major players such as Advantest Corporation (Japan), Teradyne (US), National Instruments (US), Chroma ATE (Taiwan), Astronics Corporation (US), STAr Technologies (Taiwan), Roos Instruments (US), Marvin Test Solutions (US), Cohu (US), and OMRON Corporation (Japan), TESEC

Corporation(Japan), Danaher(US), ESPEC North America(US), JTAG Technologies(Netherlands), Vaunix(US), JFW Industries(US), Aemulus(Malaysia), Festo(Germany), Nikon Metrology(Belgium), Carl Zeiss AG (Germany), Viscom AG(Germany), Keysight Technologies(US), Artiflex Engineering(South Africa), Vitrox Corporation(Malaysia), Saki Corporation(Japan), Test Research Inc. (TRI)(Taiwan), ShenZhen J-wide Electronics Equipment Co., Ltd.(China), CHINO(US).

Research Coverage

The report defines, describes, and forecasts the automated test equipment market based on component, type, vertical and geography. It provides detailed information regarding factors such as drivers, restraints, opportunities, and challenges influencing the growth of the automated test equipment market. It also analyzes competitive developments such as product launches, acquisitions, expansions, contracts, partnerships, and developments carried out by the key players to grow in the market.

Reasons to Buy This Report

The report will help leaders/new entrants in the automated test equipment market in the following ways:

1. The report segments the automated test equipment market comprehensively and provides the closest market size estimation for all subsegments across regions.
2. The report will help stakeholders understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities about the automated test equipment market.
3. The report will help stakeholders understand their competitors better and gain insights to improve their position in the automated test equipment market. The competitive landscape section describes the competitor ecosystem.

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