

Europe In-Circuit Tester Market Forecast to 2030 - Regional Analysis - by Type (Analog and Mixed), Product (Multimode Flying Probe Tester and In-Line Tester), Portability (Portable and Non-Portable), and Industry (Consumer Electronics, Automotive, Medical Equipment, Aerospace & Defense, Others)

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Abstracts

The Europe in-circuit tester market is expected to grow from US\$ 215.88 million in 2022 to US\$ 281.38 million by 2030. It is estimated to record a CAGR of 3.4% from 2022 to 2030.

Growth of 5G Drives Europe In-Circuit Tester Market

The integration of complicated electronics, such as upgraded processors, high-frequency components, and various communication interfaces, is required for the realization of 5G technology. The sophistication of these gadgets, such as 5G smartphones, routers, and base stations, poses functional, signal integrity, and power consumption concerns. In-circuit testing is extremely important in ensuring that these sophisticated circuits work properly, confirming signal integrity, and identifying potential manufacturing defects. The rising complexity of 5G devices presents a vast potential for the in-circuit test market to flourish. The 5G technology runs at higher frequency bands, such as millimeter-wave (mm-wave) frequencies, which are currently being developed with distinct testing challenges. Higher frequencies necessitate precise signal integrity testing, reduced signal loss, and effective noise reduction suppression techniques. In-circuit testing allows for the analysis of high-frequency signal routes, revealing potential impedance mismatches, signal quality concerns, and noise sources. This is likely to provide a growth opportunity for the in-circuit tester market as these testers are required

to confirm the performance of high-frequency circuits and assure compliance with strict 5G specifications. Further, 5G is very important for PCBs. As, the 5G network intends to provide 1 millisecond latency, which is 10 times quicker than the 4G network and operates on a considerably wider frequency range. PCBs will have to accommodate far higher data rates and frequencies than they do now, pushing mixed signal design to its limits. According to industry experts, 40% of the global population will utilize 5G networks by 2024. This increased demand will cause multiple changes for consumers, retailers, and component designers, including printed circuit board (PCB) manufacturers. Therefore, the growth of 5G is driving the growing if the in-circuit tester market.

Europe In-Circuit Tester Market Overview

The Europe market is segmented into Germany, France, Italy, the UK, Russia, and rest of Europe. The demand for electric vehicles is growing in the region. The number of newly registered electric cars in Germany has sharply climbed in recent years. According to the federal motor transport authority Kraftfahrt-Bundesamt (KBA), there were 366,234 new electric car registrations from January to November of 2022. The first plant of the electric vehicle manufacturer Tesla in Europe opened its doors in March 2022 in Gr?nheide, close to Berlin, Germany. With initial intentions to create 1,000 vehicles per week at the six-week mark, increasing to 5,000 per week by the end of 2022, the factory is planning to produce 500,000 automobiles yearly at full capacity. Since PCBAs are a crucial part of electric vehicles, these advances will increase demand for them. The in-circuit tester is used to check the continuity of connections in PCB components, and the growth of PCBs will create a lucrative opportunity for the growth of the in-circuit tester market. Moreover, Europe is the major producer of medical devices, with France being the second-largest market for medical devices after Germany. The word "medical device" encompasses a wide range of applications, from MRI scanners to syringes and other small devices to large installations. Nearly 1,300 businesses operate in this field in France. 89% of the 1,300 businesses in France are SMEs, accounting for 92% of all businesses. As of 2023, the rehabilitation sub-sector represents roughly 25% of the total medical device market in France. Printed circuit boards have huge applications in medical devices. Thus, growth in the medical device industry is boosting the growth of the in-circuit tester market.

Europe In-Circuit Tester Market Revenue and Forecast to 2030 (US\$ Million)

Europe In-Circuit Tester Market Segmentation

The Europe in-circuit tester market is segmented into type, product, portability, industry, and country.

Based on type, the Europe in-circuit tester market is bifurcated into analog and mixed. The analog segment held a larger share of the Europe in-circuit tester market in 2022.

In terms of product, the Europe in-circuit tester market is bifurcated into in-line tester and multimode flying probe tester. The in-line tester segment held a larger share of the Europe in-circuit tester market in 2022.

Based on portability, the Europe in-circuit tester market is bifurcated into non-portable and portable. The non-portable segment held a larger share of the Europe in-circuit tester market in 2022.

Based on industry, the Europe in-circuit tester market is segmented into consumer electronics, automotive, medical equipment, aerospace & defense, and others. The consumer electronics segment held the largest share of the Europe in-circuit tester market in 2022.

Based on country, the Europe in-circuit tester market is segmented into Germany, France, the UK, Italy, Russia, and the Rest of Europe. Germany dominated the Europe in-circuit tester market in 2022.

Teradyne Inc; Digitaltest GmbH; inTEST Corporation; HIOKI E.E. CORPORATION; Konrad GmbH; Keysight Technologies Inc; Kyoritsu Test System Co Ltd; SEICA SPA; SPEA S.p.A.; and Test Research, Inc are some of the leading companies operating in the Europe in-circuit tester market.

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