

Global IGBT Test System Market Growth 2026-2032

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Abstracts

The global IGBT Test System market size is predicted to grow from US\$ 538 million in 2025 to US\$ 813 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

In 2025, global IGBT testing system production reached approximately 846 units, the average price is 650 k usd/unit. IGBT testing system is an automated testing system specifically designed for parameter verification and reliability screening of insulated-gate bipolar transistors (IGBTs) and similar power semiconductor devices. It comprises a test platform consisting of a high-voltage, high-current source, a pulse generator, a precision measurement module, and a temperature-controlled fixture. Under static or dynamic conditions, it tests parameters such as breakdown voltage, saturation voltage drop, threshold voltage, leakage current, switching time, reverse recovery characteristics, and RBSOA/SCSOA safe operating area of the device under test. It can also be equipped with high-temperature aging or HTRB/HTGB reliability testing functions to determine the qualification and grading of individual IGBTs or power modules. Widely used in device R&D verification, wafer/module final testing, and third-party quality inspection, it is one of the key pieces of equipment in power semiconductor production lines.

Market Concentration and Major Players:

Internationally, the IGBT testing equipment market is highly concentrated, primarily in developed countries such as Europe, the US, and Japan. Large manufacturers include Hitachi Energy and SPEA. Domestically, the IGBT testing equipment market still has significant room for growth.

Manufacturing Process and Market Trends:

IGBT testing equipment is manufactured based on system design, including cabinet and

sheet metal structure processing and guide rail installation. Internally, it is equipped with a high-precision high-voltage source, high-current pulse generation unit, high-speed data acquisition card, and isolated drive module. Customized high-voltage probe stations or test fixtures are connected via wire harness crimping and shielded wiring. An industrial control computer is then integrated with testing software to execute static and dynamic dual-pulse test programs. After insulation withstand voltage calibration and high/low temperature condition debugging and aging, it is shipped.

On the market side, the increasing production of IGBTs and SiC/GaN modules driven by new energy vehicles, photovoltaic energy storage, and industrial frequency converters is leading to continuous product evolution towards wide-bandgap semiconductor compatibility, high-frequency broadband, high-isolation withstand voltage modular reconfigurable platforms, refined dual-pulse dynamic testing, multi-station parallel mass production testing, energy feedback, and digital traceability linked with MES.

LP Information, Inc. (LPI) ' newest research report, the "IGBT Test System Industry Forecast" looks at past sales and reviews total world IGBT Test System sales in 2025, providing a comprehensive analysis by region and market sector of projected IGBT Test System sales for 2026 through 2032. With IGBT Test System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world IGBT Test System industry.

This Insight Report provides a comprehensive analysis of the global IGBT Test System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on IGBT Test System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global IGBT Test System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for IGBT Test System and breaks down the forecast by State, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global IGBT Test System.

This report presents a comprehensive overview, market shares, and growth opportunities of IGBT Test System market by product type, application, key

manufacturers and key regions and countries.

Segmentation by State:

IGBT Dynamic Test System

IGBT Static Test System

Segmentation by Automation:

Semi-automatic

Fully automatic

Segmentation by Voltage:

600 V

1200 V

3300 V

Others

Segmentation by Application:

Industrial Drives

Consumer Electrics

Automotive

Renewables

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hitachi Energy (Japan)

SPEA (Italy)

Tektronix (USA)

NI (USA)

Lorlin Test Systems (USA)

Teradyne (USA)

Shibasoku (Japan)

MRS Electronic (Germany)

Keysight (USA)

Advantest (Japan)

Nidec Advance Technology (Japan)

VX Instruments (Germany)

IWATSU (Japan)

ESPEC (Japan)

CATS (Netherlands)

Shenzhen Sicarrier Technology (China)

Kewell (China)

Foshan Powertech Technology (China)

Hangzhou Changchuan Technology (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global IGBT Test System market?

What factors are driving IGBT Test System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do IGBT Test System market opportunities vary by end market size?

How does IGBT Test System break out by State, by Application?

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