

Global Ball Grid Array (BGA) Inspection Equipment Market Growth 2023-2029

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Abstracts

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Ball grid array (BGA) components are relatively new and more complex technologies, which gradually replace the dual in-line packaging technology (DIP) or traditional flat packaging technology. During the BGA assembly process, it is important to note that it is under the packaging, so it is not visible to the naked eye. For this reason, we need not only high-quality welding processes, but also BGA inspections to ensure optimization and reliability. BGA testing is to analyze the connection between the chip and the PCB. In BGA, we must check various aspects of assembly, such as the height of the package, check the size of popcorn and continuous monitoring terminal. This can be done using various techniques, such as: optical inspection, mechanical inspection, X-ray inspection. Optical inspection can be accomplished by using an endoscope to closely observe the connection between the ball grid array and the PCB surface. There are equipment for optical inspection on the market. These systems allow us to clearly understand the connection between the PCB and the chip, from which we can evaluate the quality of the process. BGA mechanical testing is a destructive process. Most destructive mechanical tests are done through impact testing, where the entire assembly is subjected to impact and shear, and then the mechanical properties of the solder joint are evaluated by measuring strain.

LPI (LP Information)' newest research report, the "Ball Grid Array (BGA) Inspection Equipment Industry Forecast" looks at past sales and reviews total world Ball Grid Array (BGA) Inspection Equipment sales in 2022, providing a comprehensive analysis by region and market sector of projected Ball Grid Array (BGA) Inspection Equipment sales for 2023 through 2029. With Ball Grid Array (BGA) Inspection Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed

analysis in US\$ millions of the world Ball Grid Array (BGA) Inspection Equipment industry.

This Insight Report provides a comprehensive analysis of the global Ball Grid Array (BGA) Inspection Equipment 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 Ball Grid Array (BGA) Inspection Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ball Grid Array (BGA) Inspection Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ball Grid Array (BGA) Inspection Equipment and breaks down the forecast by type, 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 Ball Grid Array (BGA) Inspection Equipment.

The global Ball Grid Array (BGA) Inspection Equipment market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Ball Grid Array (BGA) Inspection Equipment is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Ball Grid Array (BGA) Inspection Equipment is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Ball Grid Array (BGA) Inspection Equipment is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Ball Grid Array (BGA) Inspection Equipment players cover PACE, Inc., Visiongauge, Cognex Corporation, Thales-Optem Inc. and RelianceCM, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Ball Grid Array (BGA) Inspection Equipment market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Optical Inspection

Mechanical Inspection

X-Ray Inspection

Segmentation by application

BAG Package

Solder Joint

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 analyzing the company's coverage, product portfolio, its market penetration.

PACE, Inc.

Visiongauge

Cognex Corporation

Thales-Optem Inc.

RelianceCM

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ball Grid Array (BGA) Inspection Equipment market?

What factors are driving Ball Grid Array (BGA) Inspection Equipment market growth, globally and by region?

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

How do Ball Grid Array (BGA) Inspection Equipment market opportunities vary by end market size?

How does Ball Grid Array (BGA) Inspection Equipment break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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