

Global Chip Irradiation Processing Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Chip Irradiation Processing market size is predicted to grow from US\$ 279 million in 2025 to US\$ 545 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

Chip irradiation processing refers to the industrial or R&D processing of semiconductor chips using high-energy electron beams (E-beams). The research targets include power semiconductor devices (such as IGBTs, MOSFETs, SiC, GaN), logic/analog chips, mixed-signal chips, and other specialty chips. Industrial processing primarily uses electron beams for crystal defect control, performance optimization, reliability enhancement, and material modification. This can include single-sided or double-sided irradiation, with electron beam energies typically ranging from 2.5 to 10 MeV, adaptable to devices with varying package thicknesses and power ratings. In R&D or reliability testing scenarios, X-rays or gamma rays can be used for chip irradiation and radiation hardening experiments, but the industrial processing market remains centered on electron beams. Chip irradiation processing is widely used in automotive electronics, industrial electronics, aerospace and defense, consumer electronics, and semiconductor R&D and testing laboratories, aiming to improve device switching performance, thermoelectric characteristics, and reliability. The global gross margin for chip irradiation processing is projected to be approximately 36%-66.51% in 2025.

The global chip irradiation processing market continues to expand due to growing demand from new energy vehicles, industrial automation, power electronic inverters, and high-power modules in aerospace. Industrial processing services are primarily E-beam, while X-ray and gamma-ray processing are mainly used for R&D and reliability testing.

Power semiconductors are at the heart of the market, with logic/analog chips and mixed-signal chips primarily used for R&D and small-batch, high-value projects. Core, officially listed companies dominate the market, while smaller companies supplement regional demand.

Technologically, single-sided/double-sided processes and adjustable electron beam energy (2.5?10 MeV) meet the needs of devices with different package thicknesses and power levels. Rising demand for high-end customized processing is driving further specialization and refinement in the market.

Market growth is driven by downstream demand but constrained by high equipment investment, limited capacity, and stringent quality control. Policy support, new product launches, capacity expansion investments, and regional supply chain relocation have a positive impact on market growth.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Chip Irradiation Processing 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 Chip Irradiation Processing.

This report presents a comprehensive overview, market shares, and growth

opportunities of Chip Irradiation Processing market by product type, application, key players and key regions and countries.

Segmentation by Type:

0?~?2?MeV Electron Beam

2?~?5?MeV Electron Beam

5?~?10?MeV Electron Beam

>10?MeV Electron Beam

Segmentation by Device Type:

Power Semiconductor (IGBT, MOSFET, SiC, GaN)

Logic / Analog ICs

Mixed-signal IC

Other

Segmentation by Irradiation Method:

Single-side Irradiation

Double-side Irradiation

Segmentation by Application:

Automotive Electronics

Industrial Electronics

Aerospace & Defense

Consumer Electronics

Semiconductor R&D / Testing Labs

Other

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.

Sterigenics?Nordion?

E-BEAM Services

BGS Beta-Gamma-Service

NHV Corporation

EB Tech Co., Ltd.

ANSTO

BBF Sterilisationsservice GmbH

VPT Components

Steris

CGN Nuclear Technology Development Co., Ltd.

Zhongjin Irradiation Incorporated Company

CNNC

Shandong Lanfu High Energy Physics Technology Corporation Ltd.

Henan Tongwei Xinda Electron Beam Technology Co., Ltd.

Fangyuan Group

zsfzjs

Wuxi EL Pont Group

Shanghai Shuneng Irradiation Technology Co., Ltd.

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