

# Global Chip Irradiation Processing Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Chip Irradiation Processing market size is expected to reach \$ 557 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Chip Irradiation Processing demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chip Irradiation Processing, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Chip Irradiation Processing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chip Irradiation Processing total market, 2021-2032, (USD Million)

Global Chip Irradiation Processing total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Chip Irradiation Processing total market, key domestic companies, and share, (USD Million)

Global Chip Irradiation Processing revenue by player, revenue and market share 2021-2026, (USD Million)

Global Chip Irradiation Processing total market by Type, CAGR, 2021-2032, (USD Million)

Global Chip Irradiation Processing total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Chip Irradiation Processing market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a

part of this study include Sterigenics?Nordion?, E-BEAM Services, BGS Beta-Gamma-Service, NHV Corporation, EB Tech Co., Ltd., ANSTO, BBF Sterilisationservice GmbH, VPT Components, Steris, CGN Nuclear Technology Development Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Chip Irradiation Processing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Chip Irradiation Processing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chip Irradiation Processing Market, Segmentation by Type:

0?~?2?MeV Electron Beam

2~5 MeV Electron Beam

5~10 MeV Electron Beam

>10 MeV Electron Beam

#### Global Chip Irradiation Processing Market, Segmentation by Device Type:

Power Semiconductor (IGBT, MOSFET, SiC, GaN)

Logic / Analog ICs

Mixed-signal IC

Other

#### Global Chip Irradiation Processing Market, Segmentation by Irradiation Method:

Single-side Irradiation

Double-side Irradiation

#### Global Chip Irradiation Processing Market, Segmentation by Application:

Automotive Electronics

Industrial Electronics

Aerospace & Defense

Consumer Electronics

Semiconductor R&D / Testing Labs

Other

**Companies Profiled:**

Sterigenics?Nordion?

E-BEAM Services

BGS Beta-Gamma-Service

NHV Corporation

EB Tech Co., Ltd.

ANSTO

BBF Sterilisationservice 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.

### Key Questions Answered

1. How big is the global Chip Irradiation Processing market?
2. What is the demand of the global Chip Irradiation Processing market?
3. What is the year over year growth of the global Chip Irradiation Processing market?
4. What is the total value of the global Chip Irradiation Processing market?
5. Who are the Major Players in the global Chip Irradiation Processing market?
6. What are the growth factors driving the market demand?

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