

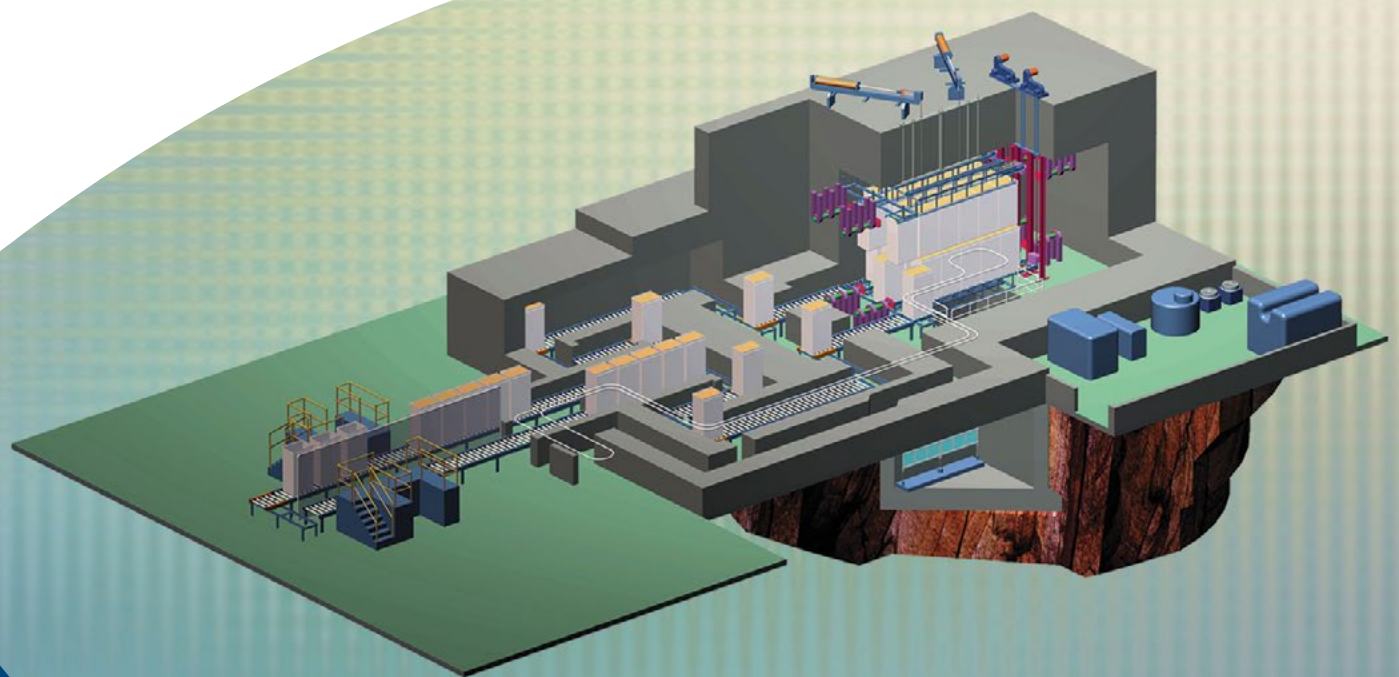


Nordion®

A Sotera Health company

Nordion Gamma Irradiators

Reliability. Performance. Value.



Industry Leading Standard Safety
and Design with Flexible Technology
Tailored to You

nordion.com



STRONG PORTFOLIO OF STANDARD DESIGNS

JS-10000 Hanging Tote Irradiator

The JS-10000 is the ultimate in flexibility and performance, providing an ideal solution in high-mix, high-volume environments where the focus is on getting the highest value of product out the door at the lowest cost. Using state-of-the-art technology, precision electric drives and a tote designed for maximum durability and minimum absorption, the JS-10000 is the workhorse of industrial irradiators.

Source rack capacity	5MCi
Product stack	24"x41"x72"
Floor area required	119'x46'
Modes of operation	Standard: 4 pass automatic Optional: 2 pass auto, 2 pass auto batch, 2 pass incremental
Annual throughput	200,000m³ at 0.15g/cc, 20kGy

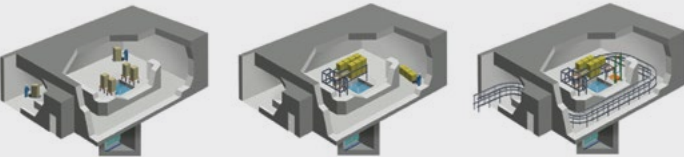
Parallel Row Pallet Irradiator

The Parallel Row Pallet Irradiator provides the ideal solution for processing intact pallets of product, reducing material handling labour cost while maximizing throughput. Ideal for both phytosanitary applications and medical device sterilization, the Pallet Irradiator accommodates a variety of product densities and dose uniformity requirements. The Pallet Irradiator combines durability and flexibility for maximum performance.

Source rack capacity	5MCi
Product stack	48"x48"x78"
Floor area required	119'x46'
Modes of operation	Standard: 2 pass automatic Optional: 4 pass auto, 2 pass auto batch, 2 pass incremental
Annual throughput	145,000m³ at 0.15g/cc, 20kGy 1.5M tonnes at 0.35g/cc, 400Gy

GammaFIT™

The GammaFIT irradiator is a lower cost, upgradable alternative to standard irradiators, offering the same Nordion quality and support. New gamma users can start out with an affordable irradiator configuration and increase the investment as their business grows by using a single-shield designed to support well established GammaFIT irradiator configurations.



R&D Small Scale Two-Pass Batch Tote Two-Pass Automatic Tote

Source rack capacity	3MCi
Product stack	29.5"x15.7"x35.4" (tote) 36.5"x24.5"x84.0" (carrier) 120cm x 100cm x 200cm (pallet)
Modes of operation	R&D Turntables
Annual throughput	Tote 2 pass batch 2 pass automatic 4 pass automatic 67,000m³ at 0.15g/cc, 20kGy Carrier 2 pass batch 2 pass automatic 4 pass automatic 73,000m³ at 0.15g/cc, 20kGy Pallet 2 pass batch 2 pass automatic 51,000m³ at 0.15g/cc, 20kGy 270k tonnes at 0.35g/cc, 400Gy*

GammaBeam™-127

The GammaBeam-127 is a versatile and economic dry storage solution for low-volume gamma processing of products with a wide variety of densities and dose requirements. It is ideal for research and testing environments and suitable for a broad range of applications.

Source rack capacity	60kCi
Dose rate @1m	600Gy/hr
Product configurations	4 turntables (standard) 12 turntables (optional) 50cm diameter 2 RPM
Floor area required	33'x39'
Modes of operation	Manual batch

REQUIREMENTS DEFINITION

Nordion Works With You from the Beginning

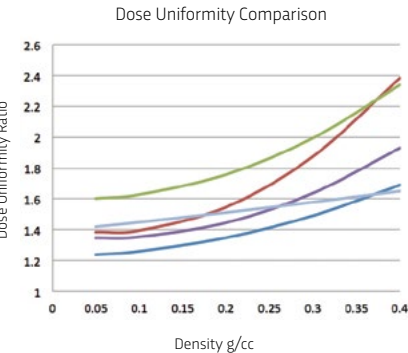
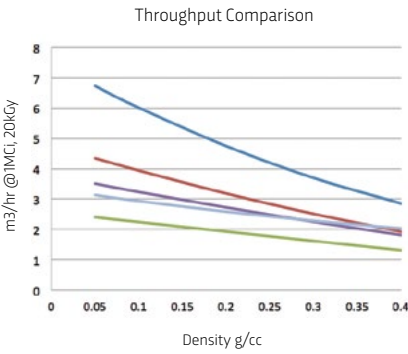
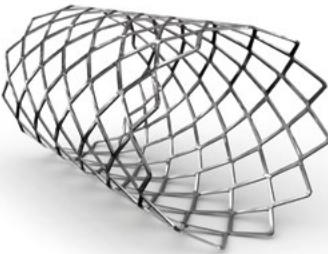
Our goal is to provide the right gamma system at the right price to help you grow your business

When developing an irradiator option, we will ask you the following questions:

- Do you know where you irradiator will be located and have you investigated the local regulatory requirements for a new irradiator facility?
- Do you have a budget and a timeline?
- How is your product currently being processed?
- Does your product require a minimum or maximum turnaround time?
- Are there special handling or processing conditions required for your product?
- Do you know what your product volumes, densities, and dose specifications are?
- How do you expect your processing requirements to change in the next 5 years? 10 years?
- How will your product be packaged? Do you know what the box/pallet/drum sizes will be?

Standardized Quality, Customized Solutions

Each irradiator that Nordion builds is customized to what you need. We have standard designs which we can use as a starting point, or we can create a new design for your unique requirements at any scale. All of Nordion's irradiators meet internationally-recognized radiation safety and security standards, such as 10 CFR Part 36, IAEA SSG-8 and ANSI 43.10. All of Nordion's irradiators also meet ISO standards for equipment design and automation safety standards. We can provide CE marking where required.



JS-10000 2P Pallet GammaFIT Pallet GammaFIT Carrier GammaFIT Tote



Nordion's products and services are used throughout the world to prevent, diagnose and treat disease. Our applied research and innovation play an integral part in improving global healthcare.

Nordion is guided by a core purpose of making a distinctive contribution to the health and wellbeing of people. We are a leader in protecting the health and safety of our employees, our neighbours and the environment. We have a sound environmental management system and certified operating practices that meet stringent international standards for environmental sustainability. Nordion and our employees take an active role in building healthy, strong, happy communities, both at home and abroad.

About Nordion

Nordion, a Sotera Health company, is a leading provider of medical isotopes and gamma technologies used for the prevention, diagnosis and treatment of disease and infection. Nordion's products are used daily by pharmaceutical and biotechnology companies, medical-device manufacturers, hospitals, clinics and research laboratories. Nordion supplies products to more than 40 countries around the world, and is committed to their mission, Safeguarding Global Health™ with every critical isotope they supply.

About Sotera Health LLC

Sotera Health LLC—parent company of Nordion, Nelson Labs, Sterigenics—is the world's leading, fully integrated protector of global health. With over 500 combined years of industry-recognized scientific and technological expertise, Sotera Health ensures the safety of global health by providing mission-critical services to the medical, pharmaceutical, tissue and food industries.



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