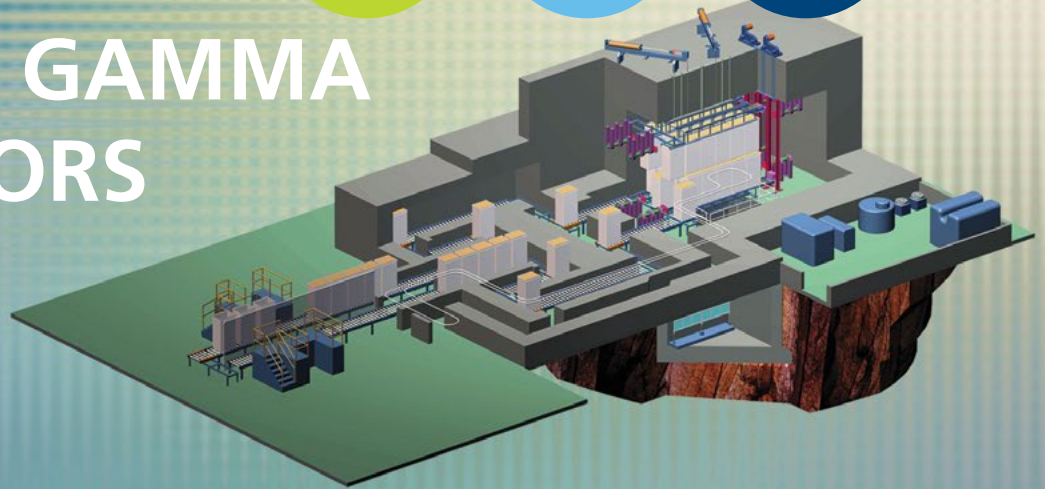


Reliability

Performance

Value

# NORDION GAMMA IRRADIATORS



## Industry leading standard safety and design with flexible technology tailored to you

No matter what your application, Nordion can help you find a gamma irradiation solution that will suit your individual needs. Nordion combines world-class capabilities in electro-mechanical design, controls, radiation physics, dosimetry and regulatory affairs with a global reach in sales, installation and service to lead the industry in delivery of end-to-end solutions for our customers. We measure our success by your success, which begins with a collaborative approach to design, and ends in customer satisfaction.

### Consider the following:

- Do you have a specific application and a well-defined set of requirements, OR
- Do you want an irradiation system that can grow and evolve as your business requirements change?

No matter what your requirements are, Nordion can work with you to find the best solution that meets the needs of your business.

# 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	200,000m <sup>3</sup> at 0.15g/cc, 20kGy

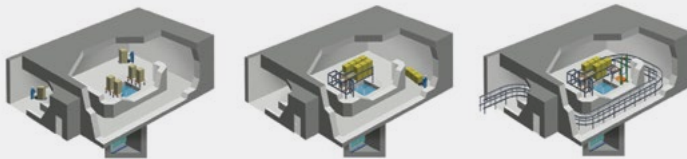
## Parallel Row Pallet Irradiator

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	145,000m <sup>3</sup> 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 option	Turntables
Annual throughput		
	Tote	2 pass batch 2 pass automatic 4 pass automatic
	67,000m <sup>3</sup> at 0.15g/cc, 20kGy	
	Carrier	2 pass batch 2 pass automatic 4 pass automatic
	73,000m <sup>3</sup> at 0.15g/cc, 20kGy	
	Pallet	2 pass batch 2 pass automatic
	51,000m <sup>3</sup> at 0.15g/cc, 20kGy 270k tonnes at 0.35g/cc, 400Gy*	

\*based on 1.3MCi

## 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.

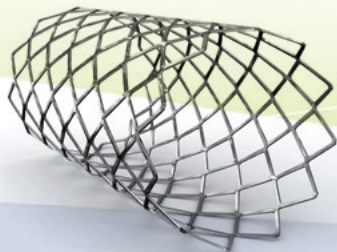
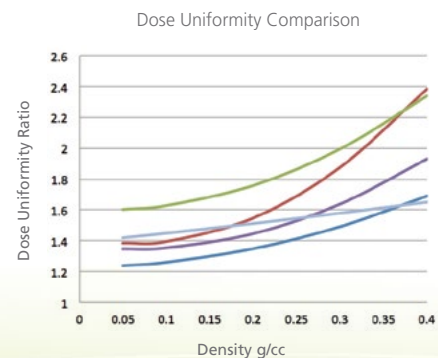
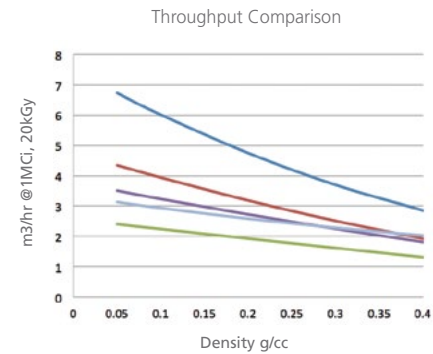
When developing an irradiator option, we will ask you the following questions:

- 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?

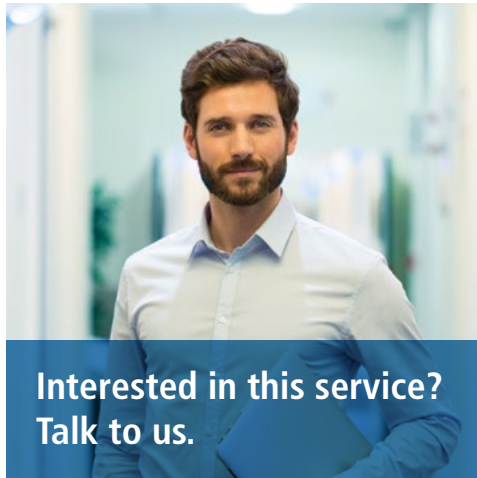


### Standardized Quality, Customized Solutions

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



Interested in this service?  
Talk to us.

## Next Steps

Let's discuss how we can work together to find the gamma irradiator design that makes the best sense for your operations.

For the most reliable and safe gamma system in the industry, contact us at [nordion.com/contact-us](http://nordion.com/contact-us).



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