

Seed Handling and Needle Loading Instruments for the **Mick® Applicator** method of Prostate Seed Implants



Essential Mick® Applicator accessories available only from Standard Imaging.

Check with us FIRST for all your seed handling and calibration needs.

Sterilization and Loading

Mick® Magazine Sterilizer

for sterilization and drying of seeds in cartridges

- **CONVENIENCE** Magazines are stored in 12 separate wells, eliminating the need for multiple lead shipping containers.
- **STERILIZATION** Magazines are sterilized and completely dried in one cycle. A bottom vent allows water to drain.
- **SECURITY** Sterilization cover locks in place, securing magazines during transportation to the sterilization area and during sterilization. No manipulation by sterilization personnel is needed.
- **SHIELDING** Thick aluminum walls surround the magazines, providing maximum shielding.
- **STORAGE** During the implant procedure, the magazines are safely stored and conveniently accessed as needed.



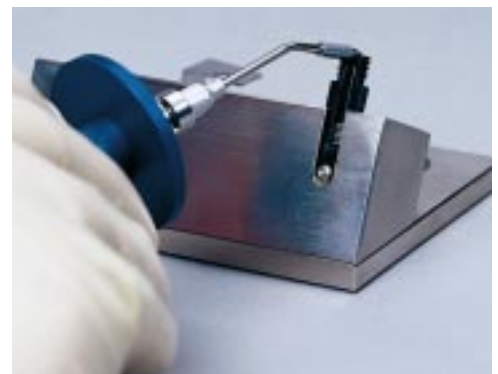
The Mick® Magazine Sterilizer, P/N 90087. Magazines are placed in the 12 wells for steam sterilization and drying.

SeedVac® Magazine Loading System

for fast loading of seeds into cartridge

The SeedVac® is a vacuum driven instrument designed to quickly load cartridges typically used with the Mick® Applicator. The vacuum is activated by placing a finger over a hole in the hand piece. The SeedVac® Tweezers Tip holds a single seed crosswise. The tip effortlessly places seeds into the cartridge eliminating the difficult task of loading cartridges with tweezers.

- Load 1 to 2 cartridges per minute, minimizing handling time.
- Incorporate shielding at all times.
- Significantly minimize exposure using time, distance, and shielding.



Picking up a single seed. The tip is centered on the seed.

Patent Pending

A demonstration video is available.

Radiation Protection

Needle Loading Shield

for shielding while loading needles for prostate treatment

- Allows you to load cartridges while sitting in a shielded environment.
- 11" wide thick aluminum shield allows protection to head and torso while allowing operator to work comfortably.
- A large viewing area is provided by the 10" x 8" leaded glass window.
- Upright is removable for storage.
- Shield is completely steam or gas sterilizable.

This shield is constructed of 3/8" aluminum and 1/4", 0.56 mm Pb equivalent leaded glass, which equals 22 HVL of protection for iodine seeds. For 100 iodine seeds at 0.4mCi, the exposure behind the glass is reduced to 6.4×10^{-15} R/h. For 100 iodine seeds at 1.0mCi, the exposure behind the glass is reduced to 1.6×10^{-14} R/h.



Needle Loading Shield

Protective Lead Seed Pouch Kits

for your patients

- Includes everything your patient needs to recover seeds.
- A 0.2mm lead equivalent pouch eliminates patient exposure from passed seeds.
- The plastic vial in this lead pouch provides safe storage of iodine or palladium seeds for transport back to the institution.
- Satisfies NRC regulations requiring proper disposal of seeds.

Following LDR iodine and palladium seed implantation for prostate cancer, patients may pass seeds during urination after they leave your medical center. This kit contains a small lead lined pouch for you to give to your patients. This pouch is easy to use with detailed instructions and a urological sieve. The pouch is only 2.75 by 5.5 inches when closed. A small plastic vial in the pouch holds the seeds. The Seed Pouch Kit provides you with a simple yet effective way to address seed handling issues and patient concerns.



Protective Lead Seed Pouch Kit

Brachytherapy Source Calibration

HDR 1000 Plus Calibration System

the solution for measurement of Mick® Cartridges

Several AAPM task groups recommend measuring seeds to verify the manufacturer's stated activity. This presents a problem when seeds are delivered in pre-loaded cartridges. To solve this problem, the Mick® Cartridge Source Holder, for the HDR 1000 Plus Well Chamber, provides a quick and convenient QA measurement of pre-loaded cartridges.



HDR 1000 Plus Well Chamber and the MAX 4000 Electrometer.

Measuring Seeds in Mick® Cartridges

Source Holder for Measurements of Loaded Mick® Cartridges, P/N 70024

This Source Holder provides a quick and convenient QA measurement of loaded Mick® Cartridges. This Source Holder positions the seeds at the center of the well chamber for quick, reproducible measurements. Works with both disposable and reusable cartridges.

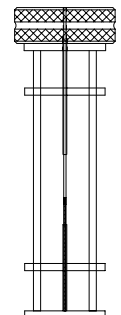
A magazine correction factor can be experimentally determined and is dependent on the magazine insert used and the seed type.

- QA Measurements for Dose Verification
- No Rotational Dependence
- Fast Measurements
- Iodine or Palladium Seeds



Individual Seed Calibration for Prostate Cancer Treatment

Source Holder for Single Seed Measurements, P/N 70016 This insert has a 1.2mm inner diameter Teflon® tube which positions an individual iodine, palladium, iridium, or gold seed at the most sensitive area of the Standard Imaging HDR 1000 Plus Ion Chamber. The smooth Teflon tube allows easy removal of the seed. Ion chamber calibrations from the University of Wisconsin ADCL are available for iodine and palladium.



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