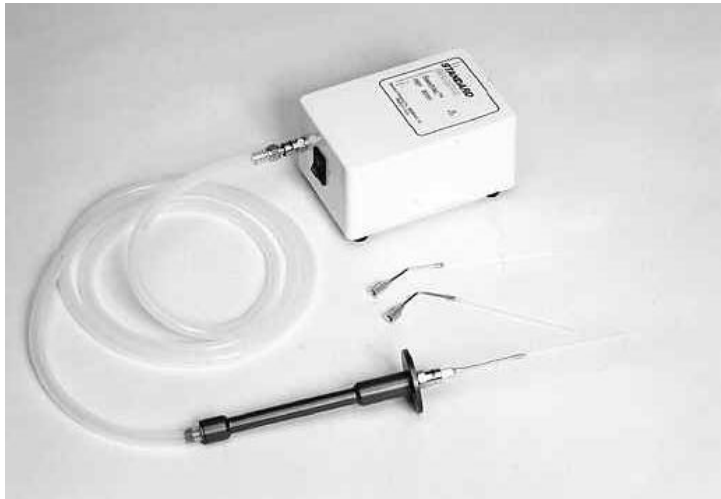




SeedVac™

Needle Loading System



Significantly reduces exposure
FAST! Loads 2-3 needles per minute or One cartridge per minute
Visually verify seed and spacer sequence prior to loading
Excellent for counting of seeds
Needle holder doubles as an autoradiograph jig
Completely steam or gas sterilizable!

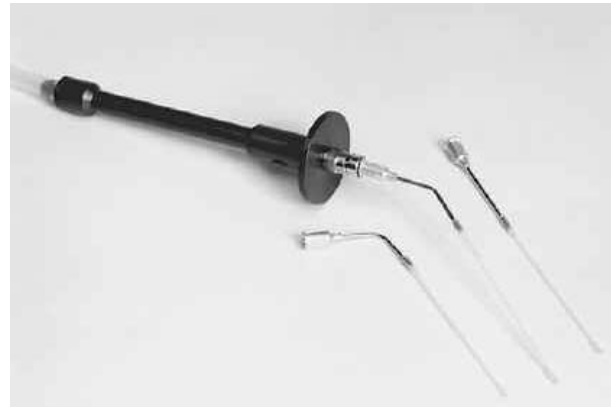
Needle Loading System

SeedVac™ for Pre-loaded Needles **Significantly reduces radiation exposure**

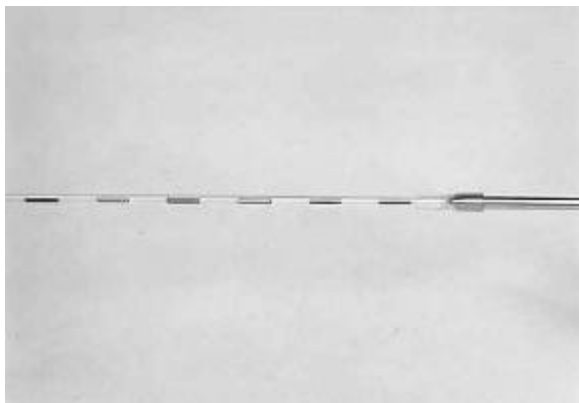
- Minimizes seed handling time
- Integrates shielding for all operations
- Maximizes distance from the seeds at all times
- Only a few seeds are exposed at a time

The SeedVac™ is a vacuum driven device designed to pull prostate implant seeds and spacers into a clear tube tip. Seeds are drawn into the clear tube tip by placing a finger over a hole on the hand piece to create the vacuum. The prescribed sequence of seeds and spacers is visually verified in the clear tube tip before being placed into the needle. These seeds and spacers are then placed into an implant needle simply by lifting your finger off the hole. A circular aluminum shield near the end of the hand piece provides radiation protection to the hand during the loading procedure. All components can be steam sterilized between each use.

The SeedVac™ is composed of three pieces: 1. A vacuum pump. 2. An aluminum hand piece including autoclavable plastic tubing which connects to the vacuum pump. 3. A set of four tips: three clear tube tips to pick up seeds and spacers, one steel tip for picking up individual seeds, and loading cartridges.



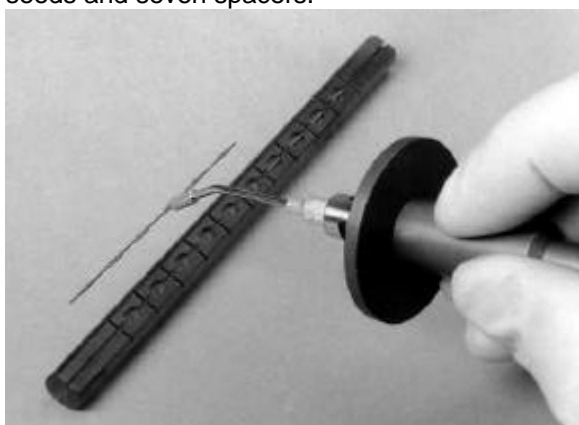
The SeedVac™ hand piece with the clear tube tips used for pre-loading seeds and spacers



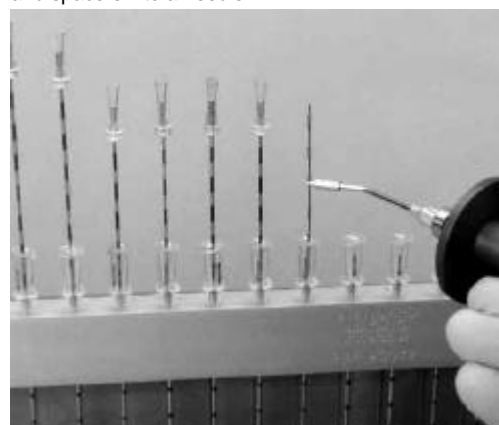
The SeedVac™ clear tube tip loaded with six seeds and seven spacers.



The SeedVac™ hand piece positioned to drop a set of seeds and spacers into a needle.



Using the SeedVac™ to pick up an I-125 RAPID Strand™



A piece of I-125 RAPID Strand™ is placed in a needle.

Seed Handling and Needle Loading Instruments

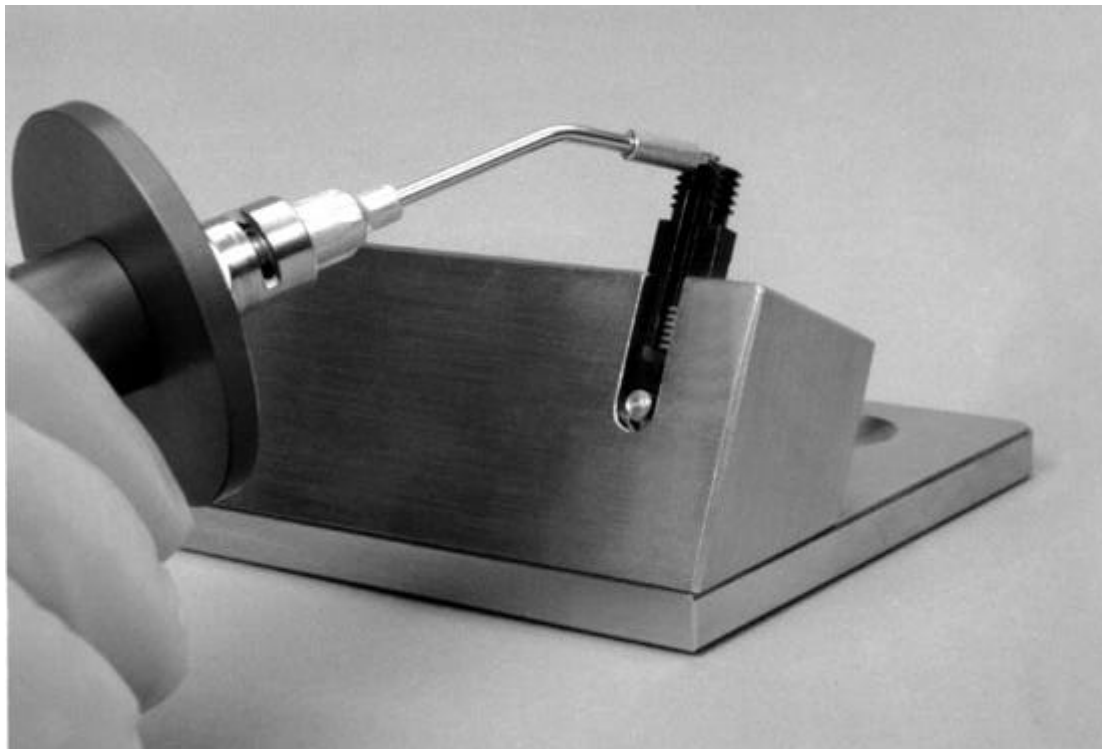
SeedVac™ for Loading Cartridges

The SeedVac™ is designed for loading cartridges typically used with the Mick® Applicator. A cartridge can be fully loaded in approximately one minute using the SeedVac's Cartridge Loading Tip. A carefully crafted notch at the end of the Cartridge Loading Tip effortlessly places seeds into the cartridge, making the difficult task of loading cartridges by hand a thing of the past. This tip is convenient for picking up individual seeds.



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

Patent Pending
Mick® Applicator is a registered trademark of Mick Radionuclear Instruments, Inc.



Using the SeedVac™ to place a seed in a cartridge.

Needle Loading Platform and Shield

for shielding while loading needles for prostate treatment.

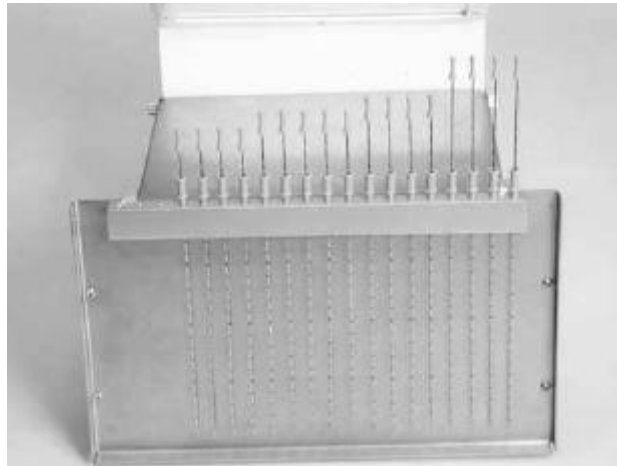
The Needle Loading Platform and Shield provides a convenient work station for loading, counting and handling seeds prior to loading needles in a radiation shielded environment. It is specifically designed to bring work up to a comfortable level, limiting movement and the number of steps needed to accomplish loading. This translates into more efficiency in the needle loading procedure and saves you time.

The Needle Holder holds needles in place for loading and provides shielding for loaded needles. When stored in the Needle Holder, the needles are already positioned for an autoradiograph to verify and document the loading sequence. Additional Needle Holders can be used for storage if desired. Each Needle Holder can accommodate 20 needles with numbered stations in a shielded position.

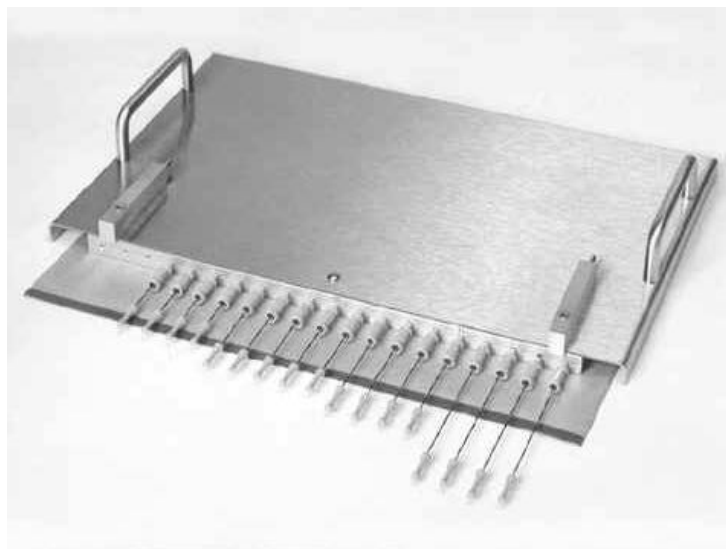
Patent Pending



The Needle Loading Platform showing the SeedVac™ hand piece and the Seed Sterilization and Sorting Tray in position for loading needles.



View of the Needle Holder with loaded needles. The different lengths of the stylets reflect different combinations of seeds and spacers.



The Needle Holder is positioned on a ready pack film to prepare an autoradiograph of the loaded needles.

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