

Seed Slider



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General Precautions

Failure to observe these precautions may result in injury to personnel or damage to device.



CAUTION: Proper use of this device depends on careful reading of all instructions and labels.



CAUTION: Steam Sterilize (autoclave) or ETO sterilize only. Do not gamma ray sterilize.



WARNING: After steam sterilization, unit will be hot. Allow adequate cooling time before handling. Do not drop or mishandle unit.

Customer Responsibility

This product and its components will perform properly and reliably only when operated and maintained in accordance with the instructions contained in this manual and accompanying labels. A defective device should not be used. Parts which may be broken or missing or are clearly worn, distorted or contaminated should be replaced immediately with genuine replacement parts manufactured by or made available from Standard Imaging Inc.



CAUTION: Federal law in the U.S.A. and Canada restricts the sale, distribution or use of this device to, by or on the order of a licensed medical practitioner. The use of this device should be restricted to the supervision of a qualified medical physicist. Handling of radioactive sources is potentially hazardous and should be performed by qualified personnel.

Should repair or replacement of this device become necessary after the warranty period, the customer should seek advice from Standard Imaging Inc. prior to such repair or replacement. If this device is in need of repair, it should not be used until all repairs have been made and the product is functioning properly and ready for use. The owner of this device has sole responsibility for any malfunction resulting from abuse, improper use or maintenance, or repair by anyone other than Standard Imaging Inc.

The information in this manual is subject to change without notice. No part of this manual may be copied or reproduced in any form or by any means without prior written consent of Standard Imaging Inc.

Features and Specifications

Dimensions:	
Width:	12.7 cm (5 inches)
Length:	11.4 cm (4.5 inches)
Height:	2.7 cm (1.06 inches)
Weight:	<0.5 kg (<1 lbs)
Material:	Aluminum, anodized

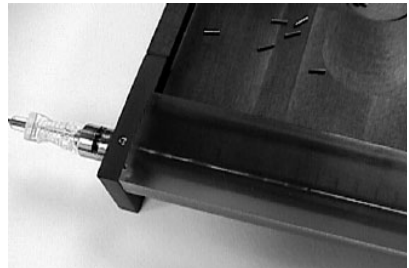
Specifications subject to change without notice.

Description

The Seed Slider, Part No. 90090, is designed for loading LDR Brachytherapy seeds and spacers into prostate needles.

A train of seeds and spacers per treatment prescription is first assembled in the loading slot with the provided spatula. A transparent window is then flipped into place, preventing unwanted movement of the seeds out of the loading slot. Correct positioning of the seeds and spacers is verified, and a needle stylet is used to smoothly load the seed/spacer train into the needle.

Figure 1. The Seed Slider shown with a train of seeds and spacers being loaded with a needle stylet



The Seed Slider eliminates the risk of dropping seeds since seeds are never picked up from the Slider tray. Implant needles lock securely onto one side of the Seed Slider with a luer lock fitting.

When used in combination with the Seed Sterilization and Sorting Tray, Part No. 90085, further protection from unnecessary radiation exposure is provided, since seeds are accessed only as needed. When used with the included Stand Bracket, the Slider becomes a stand-alone seed loading device (See Figure 2, p. 6).

Operation

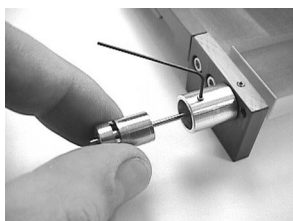
Preparations for use

Upon first use of the Seed Slider or when changing implant needle manufacturer or implant needle type, be sure to adjust the Universal Luer Lock for optimal seed loading performance:

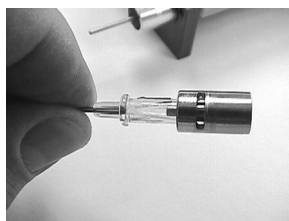
Adjustment Procedure for all implant needles

except Mick RadioNuclear Instruments (REF BT1820Z)

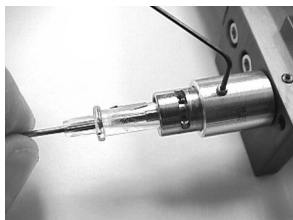
or Havel's Inc. (REF BT1820):



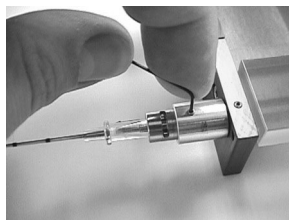
1. Loosen set screw shown and slide luer lock body off of stainless steel tube.



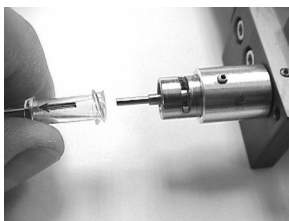
2. Screw luer lock body onto chosen needle, being sure it is finger-tight.



3. Slide assembly onto tube as far as possible into inner funnel of needle.



4. Tighten set screw down onto luer lock body.



5. Remove needle.

The Universal Luer Lock should not require adjustment again, unless a change in needle manufacturer or implant needle type is made.

The Seed Slider is now ready for sterilization.

**Adjustment Procedure for implant needles manufactured by
Mick RadioNuclear Instruments (REF BT182OZ)
or Havel's Inc. (REF BT1820):**

1. Loosen set screw and slide luer lock body off of stainless steel tube.
2. Screw luer lock onto chosen needle, *but do not seat it completely.*
3. Slide assembly onto tube as far as possible into the inner funnel of the needle. The needle should be held rigidly in universal luer lock. If not the case, unscrew the luer lock body slightly and repeat 3.
4. Tighten set screw down onto luer lock body.
5. Remove the needle.

The Seed Slider is now ready for sterilization.

Steam sterilize the unit (autoclave) following the sterilization equipment manufacturer's or healthcare facility recommendations or ETO sterilize only. Do not gamma ray sterilize

To function properly, the Seed Slider must be attached to its included Stand Bracket, or the Seed Sterilization and Sorting Tray.

Attaching the Stand Bracket

The stand bracket can be installed to make the Seed Slider a stand-alone device, if desired.

1. Using the two captive screws on the Seed Slider, line up the threaded holes in the Stand Bracket so the large flat surface covers the countersunk opening in the Seed Slider.

2. Secure the Stand Bracket to the Seed Slider by tightening the captive screws until securely fastened. When installed correctly, the Seed Slider will rest evenly on a flat horizontal surface.

Or

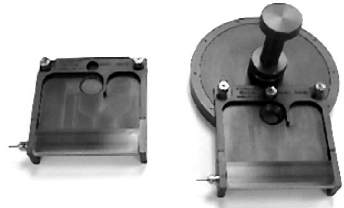
Attaching to the Seed Sterilization and Sorting Tray

1. Remove the two screws from the front cover of the Seed Sterilization Tray.

2. Align the countersunk opening in the Seed Slider with the opening on the cover of the Seed Sterilization Tray. The two aluminum-colored captive screws should rest on top of the nuts pressed into the cover of the Seed Sterilization Tray.

3. Tighten the two captive screws until the Seed Slider is securely fastened to the cover of the Seed Sterilization Tray. The countersunk holes should now line up exactly.

Figure 2. Seed Slider attached to Stand Bracket (left) and Seed Sterilization and Sorting Tray (right).



Seed Loading Operation

Moving Seeds and Spacers to the Loading Slot

1. If the Slider is attached to the Sterilization and Sorting Tray, use the spoon end of the included spatula to carefully scoop the seeds from one well at a time to the flat area of the Slider. Deposit spacers in the flat area of the Slider.

2. If the Slider is being used as a stand-alone device, deposit seeds and spacers in the flat area of the Slider.

3. Verify that the amber-colored transparent window is flipped to the back position, exposing the loading slot.

4. Gently propel the seeds and spacers into the loading slot, per treatment prescription.

5. When one needle prescription is complete, flip the window forward so that it is covering the loading slot.

Loading the Needle

1. Install an implant needle onto the Luer lock of the Seed Slider.

2. Slowly insert a stylet from the implant needle into the small opening on the side of the Seed Slider opposite the installed needle.

3. Carefully propel the seeds and spacers across the slot and fully into the needle.

Removing the Needle from the Seed Slider

1. Remove the loaded needle from the Luer Lock end of the Seed Slider, taking care to never tip it so that seeds could slide out.
2. Install a stylet into the needle until the seeds and spacers are packed appropriately.
3. Load the needle into a transport device, such as the Standard Imaging Needle Cradle, Model 90095.

Repeat this procedure as needed for the treatment plan

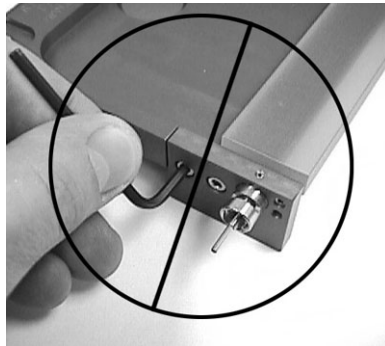
Maintenance

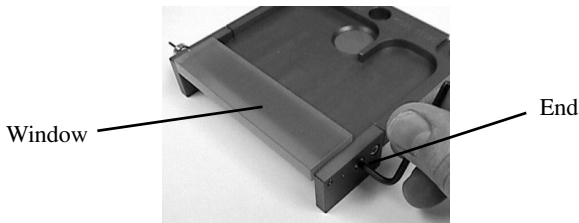
As is standard practice, it is recommended that the Seed Slider be examined after each use for deterioration. Exterior cleaning of the non-glass surfaces, if needed, can be done with a cloth slightly dampened with a solution of mild detergent and water.

Service

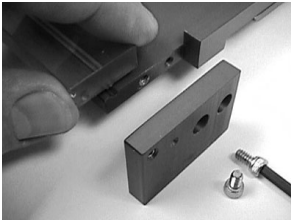
Replacement of Window

Should replacement of the window, REF 30185-03, become necessary, use the following procedure:

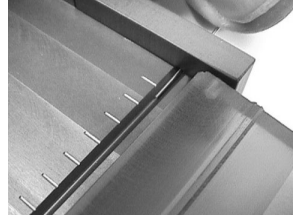




1. Using the 7/64" hex key, unscrew two cap screws from the end attached to the base, opposite the luer lock.



2. Place the new window into the groove in the base, being sure the holes in the end of the window are aligned with the cone points in the aluminum end.



3. Replace and finger-tighten cap screws. Check alignment of stylet in base. If misaligned with groove, end can be moved to correct hole location. Tighten screws.

Parts and Accessories List

REF	Description
90090	Seed Slider
80165	Instruction Manual
70080	Spatula
90040-1	Reverse Action Tweezers
30280	Universal Luer Lock
30186	Stand Bracket
30185-03	Grooved Window with Stylet and Hex Key

Notice: We welcome your evaluation of this manual.
Your comments and suggestions help us improve our publications.

Warranty

This product is sold by Standard Imaging Inc. under the warranty herein set forth. The warranty is extended only to the buyer purchasing the product directly from Standard Imaging Inc. or as a new product from an authorized dealer or distributor of Standard Imaging Inc.

For a period of twelve (12) months from the date of original delivery to the purchaser or a distributor, this product is warranted against functional defects in materials and workmanship, glass components excluded, provided it is properly operated under conditions of normal use, and that repairs and replacements are made in accordance herewith. The foregoing warranty shall not apply if the product has been disassembled, altered or repaired other than by Standard Imaging Inc. or if the product has been subject to abuse, misuse, negligence or accident.

Standard Imaging's sole and exclusive obligation and the purchaser's sole and exclusive remedy under the above warranties are limited to repairing or replacing free of charge, at Standard Imaging's option, a product: (1) which contains a defect covered by the above warranties; (2) which are reported to Standard Imaging not later than seven (7) days after the expiration date of the 12-month warranty period; (3) which are returned to Standard Imaging promptly after discovery of the defect; and (4) which are found to be defective upon Standard Imaging's examination. Transportation charges are the buyer's responsibility. STANDARD IMAGING INC. SHALL NOT BE OTHERWISE LIABLE FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO, INCIDENTAL DAMAGES, CONSEQUENTIAL DAMAGES, OR SPECIAL DAMAGES.

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For further information or a quotation
please contact Colin Walters
at cwalters@seedos.com