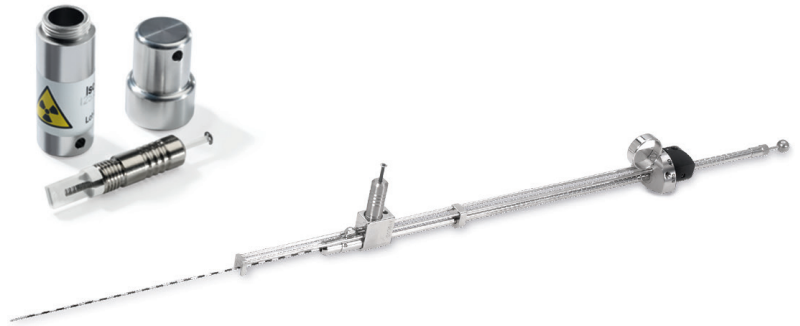


# Mick® TP/TPV Applicator System

Fast and Accurate Loose Seed Placement Capability



## Mick® Applicators

Worldwide accepted prostate seed real-time brachytherapy implantation technique.

Allows for seed placement adjustments during implant to adapt changes of prostate size and position.

### Mick® TP Applicator

The Mick® TP Applicator uses Manchester source placement principles and allows for seed placement adjustments during the implant in order to adapt to changes of the prostate position and size. When attached to an implanted Mick® TP Needle, the applicator allows for seeds to be inserted individually per pre-plan or real-time technique. Treatment modifications can be done on the spot and without interruptions. The design of the Mick® System offers very good seed placement flexibility and a significant reduction in radiation exposure to staff and personnel.

### Mick® TPV Applicator

Like the Mick® TP Applicator, the Mick® TPV Applicator enables very good seed placement adjustability. Additionally, the design of the Mick® TPV Applicator allows for instantaneous seed spacing selections of 3.75 mm, 4.0 mm, 5.0 mm, 5.5 mm and 6.0 mm and a neutral position "N". The neutral position disengages the clicking mechanism to prevent needle displacement while resetting the template ring.

### Mick® Magazines

The Mick® Magazines are designed to shield staff and patient from excess radiation exposure before and during the implant procedure. When inserted in the Mick® TP/TPV Applicator, the exposure rate around the magazine nears background

readings. The hexagonal magazine head is threaded for safe storage in the Loading V-Block or Seed Sterilizer and Carrier. Mick® Magazines may conveniently be received on-site ready loaded and sterile from e.g. Eckert & Ziegler BEBIG. Various magazine types are offered:

- Disposable Mick® Magazines (single use): They can be autoclaved for one sterilization cycle and are compatible with Mick® 200-TP and 200-TPV Applicators. The capacity per magazine is 15 or 20 each for I-125 or Pd-103 seeds.
- Reusable Mick® Magazine: When loaded, seeds are held captive thus eliminating the loss of seeds during the handling and sterilization process. The capacity per magazine is 10 each for I-125 or Pd-103 seeds.

### Mick® Sterilization and Storage Cassette

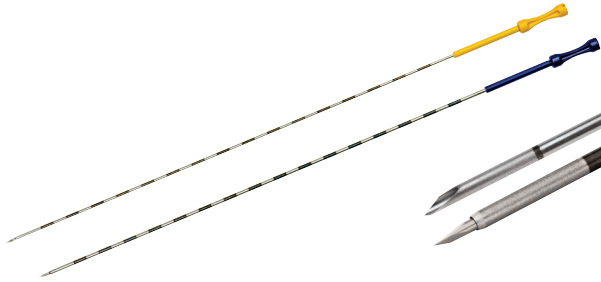
The Mick® Sterilization and Storage Cassette is an anodized, light weighted aluminum case for the Mick® 200-TP and 200-TPV Applicators. It protects and prevents loss of delicate instrumentation by offering designated component placement and silk screened component locators. The Mick® Sterilization and Storage Cassette is ideal for steam or ETO sterilization.



# Mick® TP/TPV Applicator System

## Mick® TP (Ripple-Hub) Needles

The slim hub design favors the implantation of loose seeds with the Mick® TP/TPV Applicator. The trocar tip stylet avoids needle deflection. 0.5 cm markings on the outer cannula support orientation whilst pulling back the Mick® TP/TPV Applicator during seed placement. 17 and 18G needles are available. They are available as 25 needles per carton, 3 pouches of 5 needles and 10 pouches of 1 needle. Mick® TP Needles remain open and free of bone wax to allow monitoring for drainage of blood or urine.



## Mick® Diddler

The Diddler is a device to adjust the position of transperineal prostate seeding needles (Mick® TP Needles) behind the transperineal template. The Diddler is constructed of stainless steel and consists of a slender tip with a long handle. The tip is constructed such that needles can be adjusted without fingers up, down and sideways even if there is a needle right next to it.



## Mick® Reverse Action Tweezer<sup>1</sup>

Reverse Action Tweezers are used for picking up seeds. The tip of the tweezer is provided with a groove ascertaining a gentle "controlled" grip on the seed. Deformation of a seed due to excessive pressure is avoided due to the tweezer's "reverse action" soft clamping force. Tweezers are made of stainless steel and two insulator pads provide for better gripping.



## Mick® Loading V-Block

The Loading V-Block holds magazines firmly in place during the seed loading process. Five threaded holes provide proper shielding and safe storage of loaded magazines. A seed well facilitates the process of picking up seeds to load cartridges. Additionally, the Loading V-Block is a back-up device. Left over or "recover" seeds can be safely reloaded into magazines.



## Mick® Seed Sterilizer and Carrier

The shielded Seed Sterilizer and Carrier is designed to store, transport and sterilize I-125 and Pd-103 seeds and consists of a stainless steel outer container (housing) and a magazine storage block. The storage block accepts up to 10 Mick® Magazines and is used for steam sterilization of loaded Reusable or Disposable Mick® Magazines.



# Mick® TP/TPV Applicator System

## Mick® Reusable and Disposable<sup>2</sup> Templates

Mick Radio-Nuclear Instruments offers two template options:

- Reusable Templates are manufactured from the highest grade aluminum and surface-coated (black anodized). Close tolerances are kept for smooth and straight needle guidance. Lettering and numbering are located peripherally 1-7 and A-G. All orifices are spaced 5 mm apart and provided in 17 and 18G sizes with chambers for easy insertion of implant needles.
- Disposable Templates are single-use templates which are sold sterile and provide a cost-effective solution. The disposable option eliminates the need for labor intensive cleaning, soaking and re-sterilization, while reducing the risk of bio-burden or residual chemical contamination. The grids accept 14, 17 and 18G needles.



## Mick® Radiation Inspector<sup>3</sup>

The Radiation Inspector is a small hand held microprocessor controlled radiation measuring instrument which offers sensitivity to low levels of alpha, beta, gamma and x-rays. The digital readout is displayed with a red count light and audible beeps provide instant indications of the radiation level. Other benefits include an adjustable timer and external calibration controls.



## The Mick® Applicator System

Qty.	Item	Part number
1	Mick® 200-TPV Applicator	9707-200
1	Mick® 250-TPV Applicator	9707-250
1	Mick® 100-TP Applicator	8810-100
1	Mick® 200-TP Applicator	8810-200
1	Mick® 250-TP Applicator	8810-250
1	Disposable Mick® Magazine, 15 Seeds	0216-DS
1	Disposable Mick® Magazine, 20 Seeds	0507
1	Disposable Mick® Magazine, designed for Theragenics®, 15 Seeds	0732
1	Disposable Mick® Magazine designed for C.R. Bard®, 15 seeds	1310
1	Reusable Mick® Magazine, 10 Seeds	7609
1	Mick® Sterilization & Storage Cassette	0505-01
1	Mick® TP Needle, 17G x 20 cm	MTP1720-C
1	Mick® TP Needle, 18G x 20 cm	MTP1820-C
1	Prostate Stabilization Needle, 18G x 20 cm <sup>4</sup>	1306
1	Mick® Diddler	8816
1	Mick® Reverse Action Tweezer <sup>1</sup>	7613
1	Mick® Loading V-Block	7509
1	Mick® Seed Sterilizer & Carrier	7901
1	Mick® Reusable Template, 17G	0308-02-17
1	Mick® Reusable Template, 18G	0308-02-18
1	Mick® Disposable Template, 17G <sup>2</sup>	610-905
1	Mick® Disposable Template, 18G <sup>2</sup>	610-906
1	Mick® Radiation Inspector <sup>3</sup>	SERAD

\* Theragenics is a trade name/trademark of Theragenics Corporation. C.R. Bard is a trade name/trademark of C. R. Bard, Inc.  
Mick is a registered trademark of Eckert & Ziegler BEBIG GmbH and its subsidiaries.  
The mentioned products are not available in all markets. Please contact your local Eckert & Ziegler BEBIG representative for more information.

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