



# HDR Brachytherapy

Device, Applicators & Accessories

# Unique Choices in High-Dose-Rate Brachytherapy

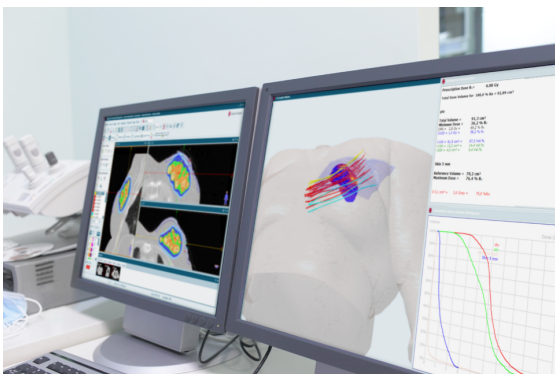
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## SagiNova Afterloader

- Ability to choose between widely used Ir-192 or long-lasting Co-60 source
- Exclusive, integrated In-Vivo Dosimetry for real-time dose monitoring
- QAssist supports quality assurance responsibilities
- Unique features to help ensure patient safety
- User-friendly GUI and intuitive design for streamlined workflow
- Advanced German engineering

Sagitta [sə'gɪtə] (lat): arrow  
Novum ['nɒvəm] (lat): novelty

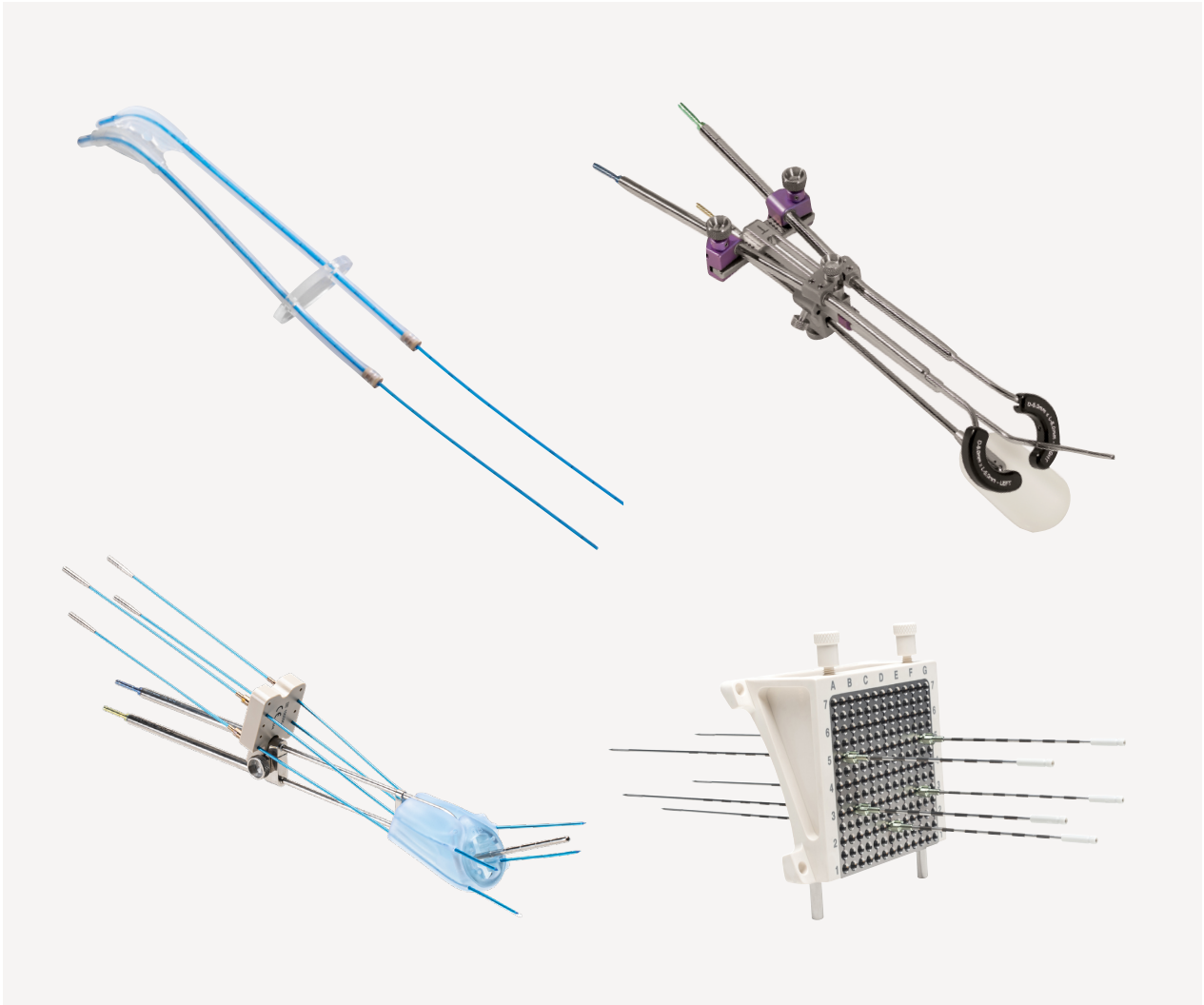
SagiNova [sə'gɪ'nəʊvə]:  
new HDR afterloader for precise,  
arrow-like targeting



## SagiPlan Treatment Planning

- One platform for all HDR planning needs
  - User-friendly and intuitive
  - Precise, targeted and conformal
  - Full and flexible connectivity
  - Comprehensive plan evaluation
-





### Complete Range of HDR Applicators

- Expansive portfolio of applicators by BEBIG Medical and Mick Radio-Nuclear Instruments
- Precise and durable
- Broad spectrum of MR capable applicators
- Unique system wide integration
- Full clinical support

### Round-the-Clock Service Excellence

- Customizable service and support plans
- Scalable education and training programs

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**Caution:**

Federal (USA) law restricts the sale of the devices mentioned in this catalog by or on order of a physician.



MR Safe – an item that poses no known hazards in all MR environments.



MR Unsafe – an item that poses known hazards in all MR environments.

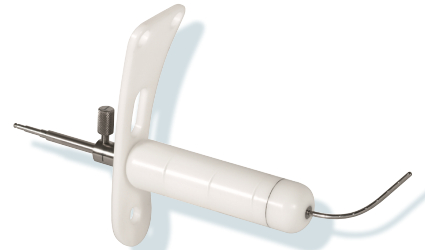
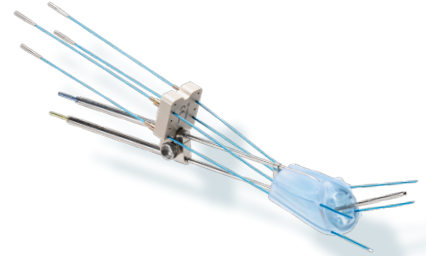
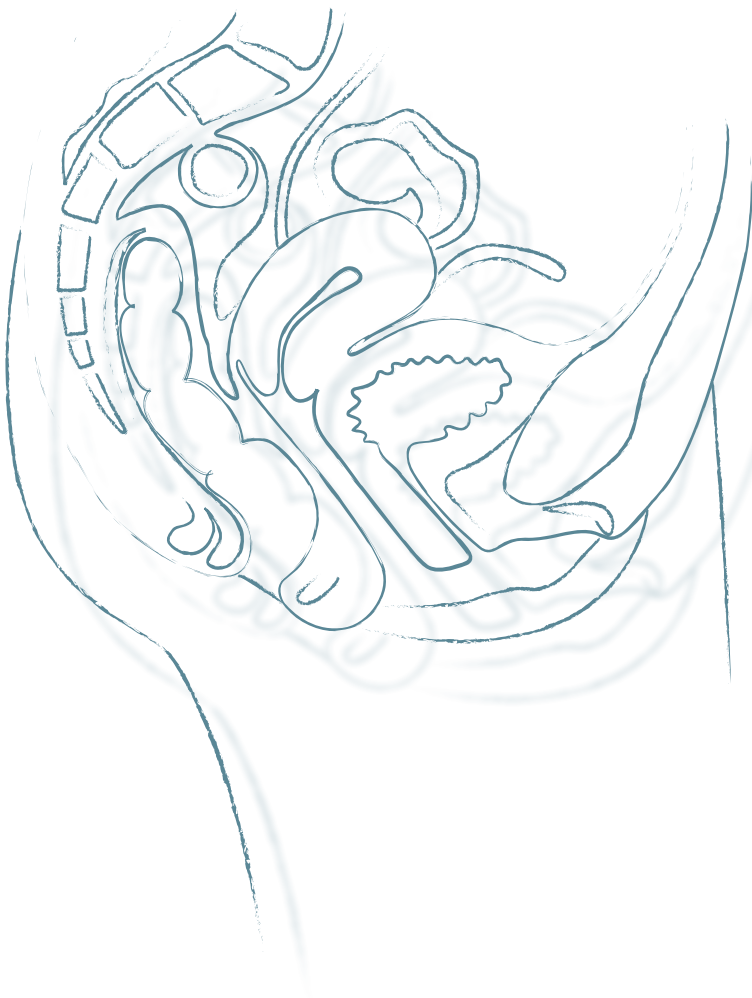


MR Conditional – an item that has been demonstrated to pose no known hazards in a specified MR environment with specific conditions of use. Applicators in the catalog marked with this sign are MR Conditional for 1.5 and 3 Tesla (specific conditions are available on request).



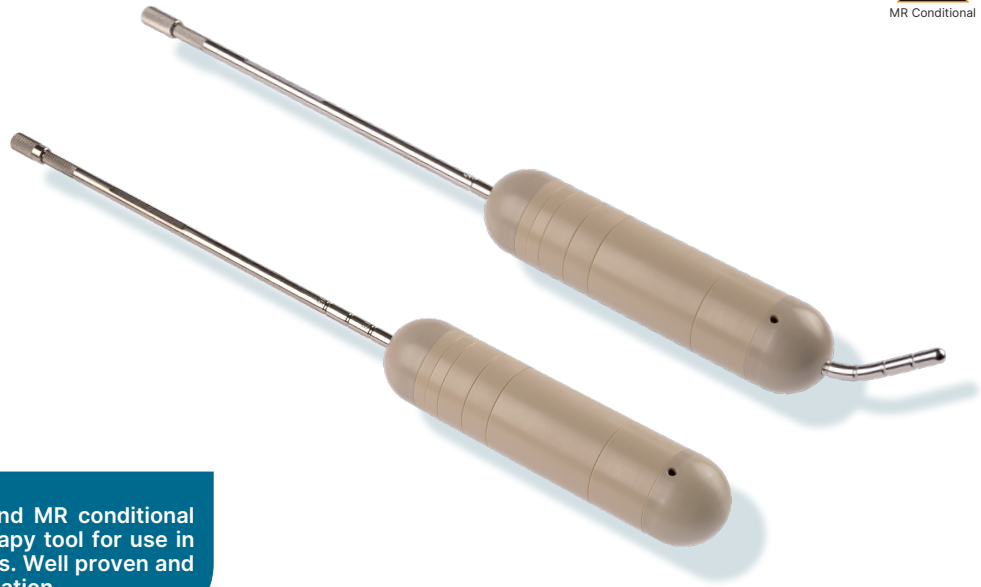
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# Gynecological & Rectal



# CT/MR Vaginal/Rectal Cylinder Applicator Set

SET0101



CT compatible and MR conditional basic brachytherapy tool for use in various body sites. Well proven and versatile in application.

Vagina, Cervix, Endometrium, Rectum

## Variable Length

The variable length CT/MR Vaginal/Rectal Cylinder Applicator Set is most commonly used for vagina or rectal brachytherapy. Variable lengths can be obtained by using cylinder segments of different lengths. This set includes cylinders of different diameters, which allows easy adaptation to the patient's anatomy.

## Easy Insertion

The cylinder is designed for easy insertion, and is tolerable for the patient during treatment. Together with additional intrauterine tubes (SET 1101), this set can be used for endometrial treatment as well.

## Versatile Design

The design of the cylinder provides an appropriate distance between the source and the target area. The versatility of this applicator set makes it an essential brachytherapy tool for gynecological and gastroenterological treatments.

### Features

- CT compatible and MR conditional
- Cylinders of different diameters are available (12.5 mm, 15 mm, 20 mm, 25 mm, 30 mm, 35 mm and 40 mm)
- Variable concept allows easy adaptation to the patient's anatomy
- Closed cap for easy insertion
- Cylinder provides spacing for a homogeneous dose distribution to the surface
- Intrauterine tubes extend the set to include endometrial treatment
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization  
Applicator can easily be attached to the applicator clamp (LAZ22-01)

### Set Content SET0101

Quantity	Item	Part number
1	CT/MR Vaginal Cylinder with variable length, D = 20 mm, L = 120 mm	LCZ07-01
1	CT/MR Vaginal Cylinder with variable length, D = 25 mm, L = 125 mm	LCZ07-02
1	CT/MR Vaginal Cylinder with variable length, D = 30 mm, L = 130 mm	LCZ07-03
1	Screwdriver, 1.5 mm	LAZ09-01

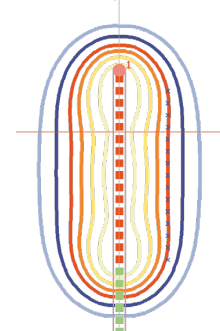
### Required Items

Quantity	Item	Part number
1	Universal Applicator incl. plug, D = 3 mm, L = 1400 mm	LAA1400-GYN
1	CT/MR Intrauterine Tubes	SET1101

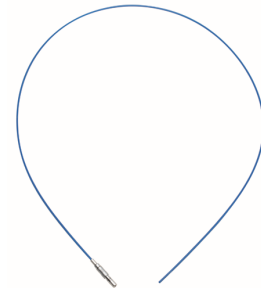
### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01
1	CT/MR Vaginal Cylinder with variable length, D = 12.5 mm, L = 120 mm	LCZ07-06
1	CT/MR Vaginal Cylinder with variable length, D = 15 mm, L = 120 mm	LCZ07-07
1	CT/MR Vaginal Cylinder with variable length, D = 35 mm, L = 135 mm	LCZ07-04
1	CT/MR Vaginal Cylinder with variable length, D = 40 mm, L = 140 mm	LCZ07-05
1	CT/MR Rectal Retractor, LAZ09-02 screwdriver required (2.0 mm allen wrench)	LCZ50-01
1	Screwdriver, 2.0 mm	LAZ09-02
1	CT/MR Perineal Bar	LCZ51-01

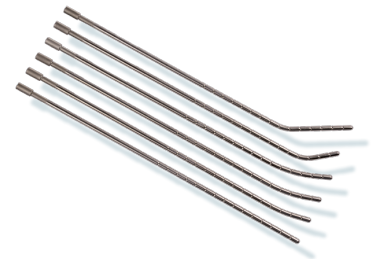
### Isodose



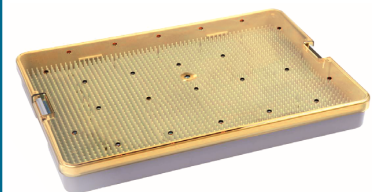
### Universal Applicator



### CT/MR Intrauterine Tubes



### Sterilization Box

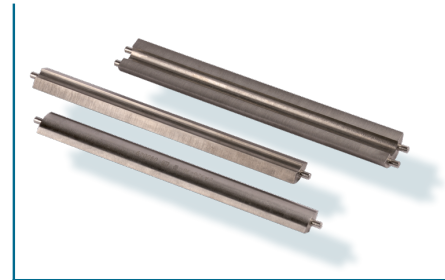


<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation



# Vaginal/Rectal Cylinder Applicator Set Variable Shielding

SET0025



Variable dose shaping with 90° and 180° tungsten shielding segments to protect organs at risk.

## Vagina, Rectum

### Variable Shielding

The Vaginal/Rectal Cylinder Applicator Set with Variable Shielding has been designed for use in vaginal and rectal brachytherapy. This set includes 90° and 180° tungsten shielding segments which can be arranged in the desired configuration to achieve the shielding needed. The positions of the shielding segments are clearly visible when the applicator is inserted.

### Easy Insertion

The cylinders are designed for easy insertion, and are tolerable for the patient during treatment. Cylinders are available in four different diameters to easily adapt to the individual patient's anatomy.

### Precise Dose Distribution

The design of the cylinder assures a reasonable distance between the source and the target area. The shielding segments can be arranged to protect sensitive areas, such as organs at risk. The SagiPlan® and HDRplus treatment planning systems calculate the effect of the shielding for Co-60 and Ir-192 sources. The result of the shielding is shown in isodose-curves as well as dose at control-points at organs at risk. This applicator set is an essential brachytherapy tool for gynecological and gastroenterological treatments.

### Features

- Variable shielding for protecting organs at risk
- Absorption by tungsten alloy: ~76 % for Ir-192 and ~28 % for Co-60
- Cylinders of different diameters adapt to the patient's anatomy
- Defined geometry of cylinders ensures homogeneous dose distribution at the surface
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- Applicator can easily be attached to the applicator clamp (LAZ22-01)

### Set Content SET0025

Quantity	Item	Part number
1	Vaginal Cylinder, closed, D = 22 mm, L = 130 mm	LA320-64
1	Vaginal Cylinder, closed, D = 25 mm, L = 130 mm	LA320-74
1	Vaginal Cylinder, closed, D = 30 mm, L = 130 mm	LA320-84
1	Vaginal Cylinder, closed, D = 35 mm, L = 130 mm	LA320-89
2	Shielding Segment 90°	LA320-90
1	Shielding Segment 180°	LA320-180
1	Receptor for Shielding Segments	LA313-25
1	Intrauterine Tube, straight	LAR01-01
2	Sealing Caps for LARXX and LCRXX, (10 pcs)	LAZ17-02

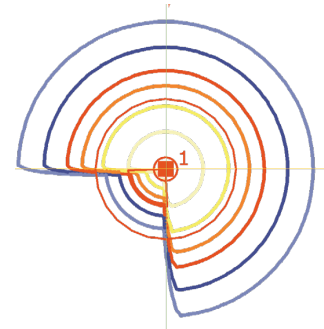
### Required Items

Quantity	Item	Part number
1	Universal Applicator incl. plug, D = 3 mm, L = 1400 mm	LAA1400-GYN

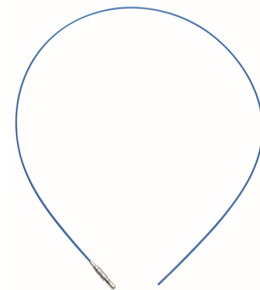
### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01

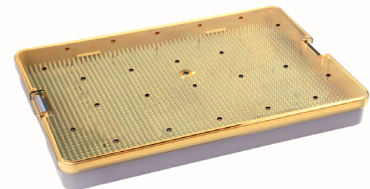
### Isodose



### Universal Applicator



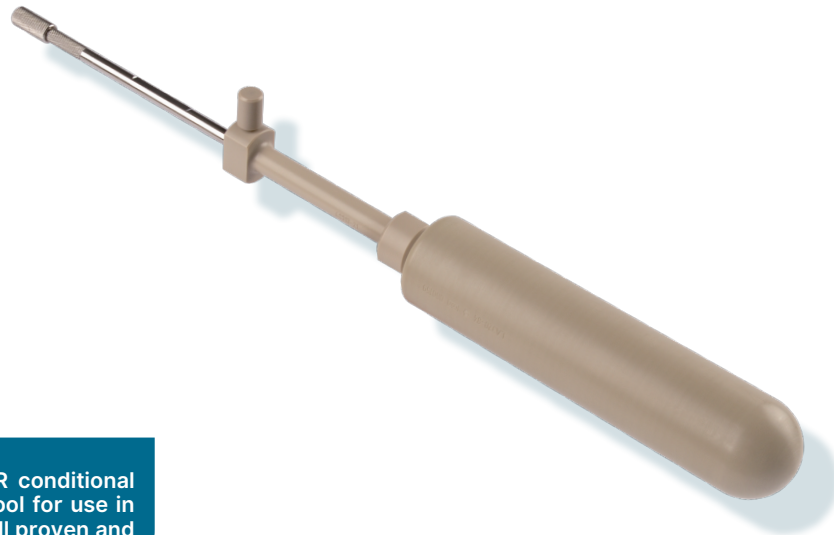
### Sterilization Box



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

# CT/MR Vaginal Cylinder Applicator Set

SET0125



CT compatible and MR conditional basic brachytherapy tool for use in various body sites. Well proven and easy to use.

## Vagina

### Ease of Use

The CT/MR Vaginal Cylinder Applicator Set contains the classical and proven vaginal applicators for intracavitary brachytherapy. Simple, yet effective, this applicator set can be used for gynecological treatments.

### Easy Insertion

The cylinders are designed for easy insertion, and are tolerable for the patient during treatment. Cylinders are available in four different diameters to easily adapt to the individual patient's anatomy. The closed and curved end of the applicator facilitates insertion into the body.

### Precise Dose Distribution

The CT compatible and MR conditional applicator set allows state of the art planning, improving the treatment planning processes. The cylinder design provides the desired distances between the source and target area. This applicator set is an essential brachytherapy tool for gynecological treatments.



### Features

- CT compatible and MR conditional
- Cylinders of different diameters adapt to patient anatomy
- Design facilitates insertion
- Defined geometry of cylinders ensures homogeneous dose distribution at the surface
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- Applicator can easily be attached to the applicator clamp (LAZ22-01)

### Set Content SET0125

Quantity	Item	Part number
1	Vaginal Cylinder, closed, D = 22 mm, L = 130 mm	LA320-64
1	Vaginal Cylinder, closed, D = 25 mm, L = 130 mm	LA320-74
1	Vaginal Cylinder, closed, D = 30 mm, L = 130 mm	LA320-84
1	Vaginal Cylinder, closed, D = 35 mm, L = 130 mm	LA320-89
1	Fixation Tube, D = 5 mm	LC313-21
1	Adapter for Vaginal Cylinder	LC313-22
1	CT/MR Intrauterine Tube, straight	LCR01-01
2	Sealing Caps for LARXX and LCRXX, (10 pcs)	LAZ17-02

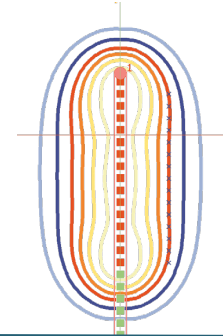
### Required Items

Quantity	Item	Part number
1	Universal Applicator incl. plug, D = 3 mm, L = 1400 mm	LAA1400-GYN

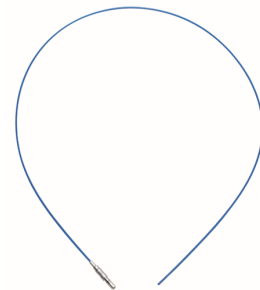
### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01

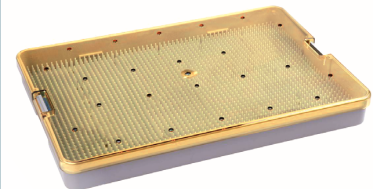
### Isodose



### Universal Applicator



### Sterilization Box



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

# CT/MR Segmented Vaginal Applicator Set

SETM1406



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning



Vagina, Cervix, Endometrium

## Simplicity

The CT/MR Segmented Vaginal Applicator is designed to accurately and completely treat the vagina and cervix. The four-segment design in multiple widths allows for a range of both lengths as well as diameters to fit a variety of anatomies. The segments are easily fixed in place with a single, toolless lock knob.

## Flexibility

The CT/MR Segmented Vaginal Applicator is available in straight, 15°, 30°, 45° or stump configurations to effectively treat a variety of anatomies. 2.0 cm, 2.5 cm, 3.0 cm and 3.5 cm diameter build-up caps are available standard and can be assembled with two, three or all four segments.

## Reliability

The titanium construction with laser welded connections allows for enhanced stability and torque resistance. The used Delrin® build-up cap cylinders resist wear and tear from repeated use and cleaning as well as sterilization.

Delrin® is a registered trademark of E. I. du Pont de Nemours and Company.

### Features

- Autoclavable components
- Expected lifetime is 5 years
- Build-up caps in sets of four segments ranging from 2.0 to 3.5 cm in diameter
- Stump and intrauterine design with three angle options
- 3.2 mm intrauterine tubes
- Includes optional perineal retainer for applicator stabilization
- Optional CT/MR intrauterine smit sleeves
- Applicator also available with connections for Varian and Elekta/Nucletron transfer tubes

### Set Content SETM1406

Quantity	Item	Part number
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, straight, L = 8 cm	LCZ1406-ST-8
1	CT/MR Stump Tube, straight	LCZ1406-STUMP
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 15°, L = 4 cm	LCZ1406-15-4
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 30°, L = 6 cm	LCZ1406-30-6
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 45°, L = 8 cm	LCZ1406-45-8
1	Spacers, L = 1 cm, 2 cm & 3 cm	LCZ1004-23
1	Distal Dome Segment, D = 2.0 cm	LCZ0804-02-2.0
1	Proximal Segment, D = 2.0 cm	LCZ0804-06-2.0
1	Middle Cylinder Segments, D = 2.0 cm, (2 pcs)	LCZ0804-05-2.0
1	Distal Dome Segment, D = 2.5 cm	LCZ0804-02-2.5
1	Proximal Segment, D = 2.5 cm	LCZ0804-06-2.5
1	Middle Cylinder Segments, D = 2.5 cm, (2 pcs)	LCZ0804-05-2.5
1	Distal Dome Segment, D = 3.0 cm	LCZ0804-02-3.0
1	Proximal Segment, D = 3.0 cm	LCZ0804-06-3.0
1	Middle Cylinder Segments, D = 3.0 cm, (2 pcs)	LCZ0804-05-3.0
1	Distal Dome Segment, D = 3.5 cm	LCZ0804-02-3.5
1	Proximal Segment, D = 3.5 cm	LCZ0804-06-3.5
1	Middle Cylinder Segments, D = 3.5 cm, (2 pcs)	LCZ0804-05-3.5
1	Collet Sleeve	LCZ1004-21
1	Collet Lock Knob	LCZ1004-22
1	Perineal Retainer	LCZ0804-20
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LCZ96-1522A

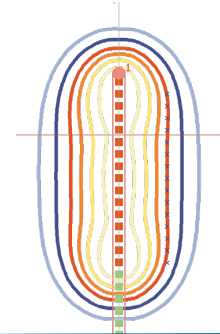
### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

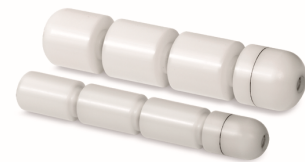
### Optional Items

Quantity	Item	Part number
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

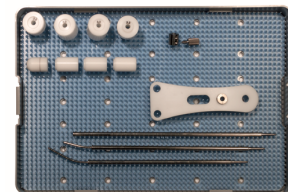
### Isodose



### Segmented Vaginal Cylinder Segments



### Sterilization Tray with Segmented Vaginal Applicator Set Components



Full SETM1406 is not represented in image

### Transfer Tube



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

# CT/MR Miami Applicator Set

SETM1410



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning

Vagina, Cervix, Endometrium

## Simplicity

The CT/MR Miami Applicator is designed for simplicity, even in the most advanced settings. The CT/MR Miami Applicator 7-channel design enables either complete or targeted treatment throughout the vagina and cervix. It allows for accurate and reliable treatments in nearly any anatomy with a range of intrauterine angle and stump configurations, various sized build-up caps and optional dome end build-up caps. The single step applicator placement requires minimal intracavitary assembly. The detachable body, cylinder and docking unit design enables quick setup and simplify cleaning. Also the cervical stop enhances repeatability and reduces potential for iatrogenic injury.

## Flexibility

The CT/MR Miami Applicator Set includes standard 30°, 0° and stump configurations to effectively treat a variety of anatomies. The 3.0 cm, 3.5 cm and 4.0 cm build-up cap, cylinders and optional domes allow for enhanced source spacing, and the 7-channel design enables more precise dose distribution around circumference of the vagina.

## Reliability

The titanium construction with laser welded connections allows for enhanced stability and torque resistance. Keyed connections ensure consistent alignment of channels and Intrauterine Tube every time.

### Features

- Autoclavable components
- Expected lifetime is 5 years
- Flat and optional domed cylinders for variety of anatomies
- 3.2 mm intrauterine tubes
- Enhanced control of vaginal and cervical dose with six circumferential tubes plus a central intrauterine tube
- Optional CT/MR intrauterine smit sleeves
- Applicator also available with connections for Varian and Elekta/Nucletron transfer tubes

### Set Content SETM1410

Quantity	Item	Part number
1	CT/MR Miami Applicator Intrauterine Tube, 30°	LCZ1410-IU-30
1	CT/MR Miami Applicator Intrauterine Tube, straight	LCZ1410-IU-ST
1	Docking Unit Assembly	LCZ1410-36
1	CT/MR Miami Applicator Body	LCZ0904-01
1	Build-Up Cap, D = 30 mm	LCZ0904-02-30
1	Build-Up Cap, D = 35 mm	LCZ0904-02-35
1	Build-Up Cap, D = 40 mm	LCZ0904-02-40
1	Tandem Lock Nut	LCZ0904-10
1	Cervical Stop	LCZ0508-10
1	Stainless Steel Allen Wrench	LCZ7311
1	Stump Plug	LCZ0104-30
1	Stump Plug Insertion Tool	LCZ0104-29
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Tray	LCZ00873000

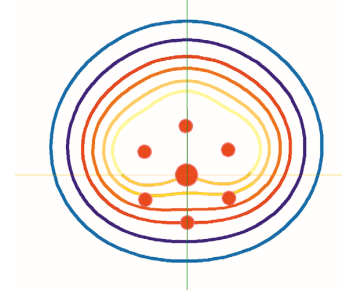
### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

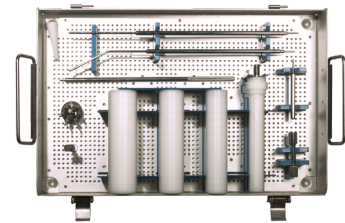
### Optional Items

Quantity	Item	Part number
1	Domed Build-Up Cap, D = 25 mm	LCZ0904-40-25
1	Domed Build-Up Cap, D = 30 mm	LCZ0904-40-30
1	Domed Build-Up Cap, D = 35 mm	LCZ0904-40-35
1	Domed Build-Up Cap, D = 40 mm	LCZ0904-40-40
1	Build-Up Cap, D = 25 mm	LCZ0904-02-25
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

### Isodose



### Sterilization Tray with Miami Applicator Set Components



### Domed Build-Up Caps



### Build-Up Caps



### Transfer Tube



# CT/MR Adjustable Cervix Applicator Set

SET0117



Proven, CT compatible and MR conditional tool for gynecological brachytherapy with funnel shaped cylinder for precise dose distribution.

Vagina, Cervix, Endometrium

## CT/MR Compatibility

The CT/MR Adjustable Cervix Applicator Set is CT compatible and MR conditional and allows for brachytherapy treatments of the cervix and endometrium. The funnel-shaped end of the cylinder allows for an easy positioning of the intrauterine tube, thus enhancing dose distribution.

## Different Diameters

This set contains cylinders of different diameters that easily adapt to the anatomical area. The additional intrauterine tubes (SET1102) extend the treatment possibilities to include the endometrium.

## Precise Dose Distribution

Precise dose distribution is easily obtained using this uniquely designed applicator. The cylinder provides spacing to enhance the dose distribution at the surface of the applicator. The CT/MR Adjustable Cervix Applicator is designed to provide precise gynecological brachytherapy.

### Features

- CT compatible and MR conditional
- Funnel-shaped applicator provides precise dose distribution
- Cylinders of different diameters adapt to individual anatomical needs
- Additional intrauterine tubes extend the treatment options to include endometrial treatment
- Cylinder provides spacing for a homogeneous dose distribution at the surface of the applicator
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- Applicator can easily be attached to the applicator clamp (LAZ22-01)

### Set Content SET0117

Quantity	Item	Part number
1	CT/MR Vaginal Cylinder, cervix, D = 25 mm, L = 130 mm	LC315-14
1	CT/MR Vaginal Cylinder, cervix, D = 30 mm, L = 130 mm	LC315-24
1	CT/MR Vaginal Cylinder, cervix, D = 20 mm, L = 130 mm	LC315-54
1	Fixation Tube, D = 5 mm	LC313-21

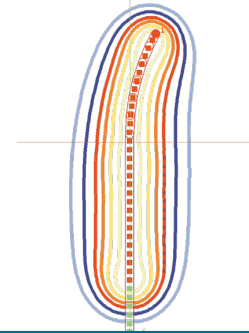
### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000
1	CT/MR Intrauterine Tubes, thin	SET1102

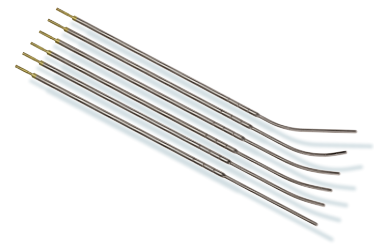
### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01

### Isodose



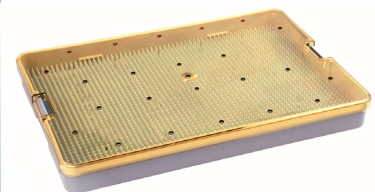
### CT/MR Intrauterine Tubes



### Transfer Tube



### Sterilization Box

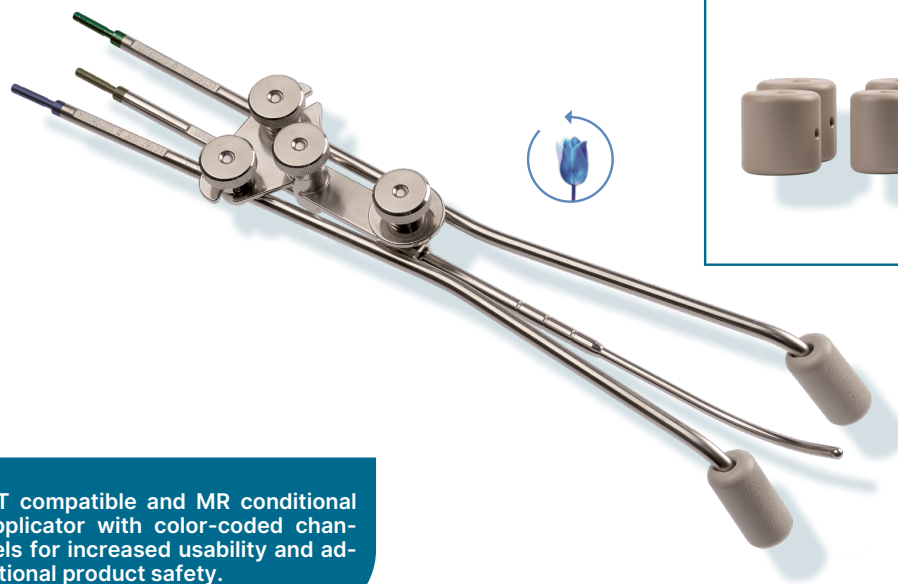


<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation



# CT/MR Fletcher Applicator Set

SET0109



CT compatible and MR conditional applicator with color-coded channels for increased usability and additional product safety.

Vagina, Cervix

## “Fletcher-style” Geometry

The CT/MR Fletcher Applicator Set is based on the geometry of the conventional “Fletcher-style” applicator design for gynecological brachytherapy. It is mainly intended for the treatment of the cervix. The CT compatible and MR conditional applicator is made of titanium. This makes it mechanically robust, with minimal artefacts in CT and MR images.

## Easy Insertion

The thin intrauterine tubes and the individual ovoid tubes are easy to insert. Once in position, they lock together and are secured with tightening screws to remain stable and immobile during treatment. The ovoids provide spacing between the source and tissue. To enhance the adaptation to the anatomy of the individual patient, the set includes ovoids of different sizes.

## Precise Dose Distribution

This specially designed applicator generates precise dose distribution to completely encompass the endometrium and cervix. The CT/MR Fletcher Applicator Set is an important tool for gynecological brachytherapy.

### Features

- CT compatible and MR conditional
- Color-coded channels to facilitate use and enhance safety
- Ovoids made of polyetheretherketone are well-designed for adaptation to the patient's anatomy
- Enhanced dose distribution to the cervix and endometrium
- Intrauterine tubes and ovoid tubes lock together, remaining stable and immobile
- Holding discs to prevent perforation
- Applicator can easily be attached to the applicator clamp (LAZ22-01)
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization

### Set Content SET0109

Quantity	Item	Part number
1	CT/MR Fletcher Ovoid Tubes, right and left	LCT82-02
1	Mini-Ovoid Pair, D = 15 mm, L = 30 mm, (2 pcs)	LC330-01
1	Ovoid Pair, D = 20 mm, L = 30 mm, (2 pcs)	LC330-02
1	Ovoid Pair, D = 25 mm, L = 30 mm, (2 pcs)	LC330-03
1	Ovoid Pair, D = 30 mm, L = 30 mm, (2 pcs)	LC330-04
1	Screwdriver, 1.5 mm	LAZ09-01
2	Sealing Caps, (10 pcs)	LAZ17-03

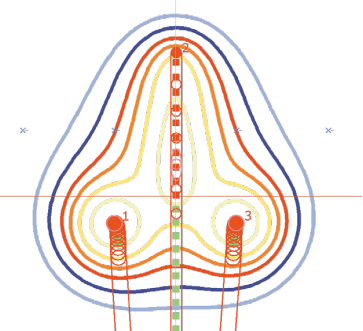
### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3
1	CT/MR Intrauterine Tubes, thin	SET1102

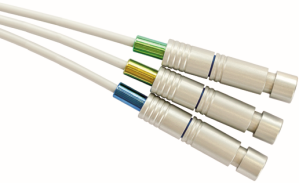
### Optional Items

Quantity	Item	Part number
1	Opening Forceps for Holding Discs <sup>2</sup>	LAH05-03
1	CT/MR Holding Discs for Gyn. Applicators, d = 3.5 mm, D = 15 mm, (5 pcs)	LCZ03-03
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01
1	CT/MR Rectal Retractor, LAZ09-02 screwdriver required (2.0 mm allen wrench)	LCZ50-01
1	Screwdriver, 2.0 mm	LAZ09-02
1	CT/MR Perineal Bar	LCZ51-01

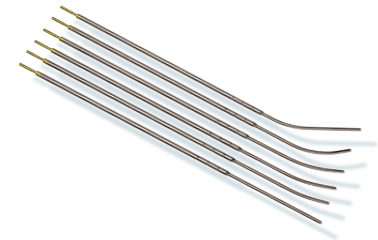
### Isodose



### Transfer Tubes



### CT/MR Intrauterine Tubes



### CT/MR Rectal Retractor



### Tulip Fletcher Applicator

See page I - 20 for interstitial upgrade options.

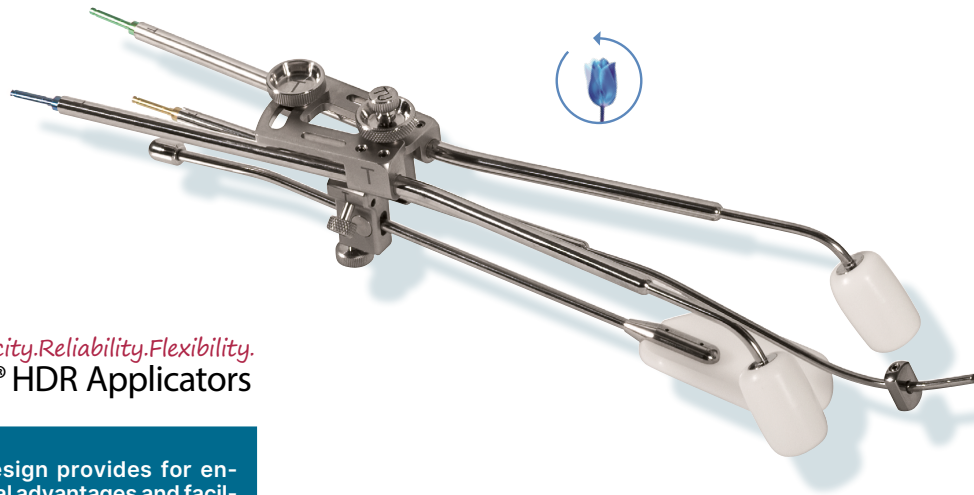


<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>2</sup> Manufactured by Otto Leibinger GmbH

# CT/MR Fletcher (FSD) Applicator Set

SETM1409



 *Simplicity. Reliability. Flexibility.*  
Mick® HDR Applicators

Innovative design provides for enhanced clinical advantages and facilitates CT and MR based brachytherapy planning.

## Cervix, Endometrium

### Well-Accepted Design

The CT/MR Fletcher (FSD) Applicator leverages the well-accepted intrauterine tube and ovoid structure of the Fletcher-Suit-Delclos design, while enhancing usability and flexibility. The connecting bracket is designed with concentric locking knobs that fix the intrauterine tube in place between the ovoids, while the lateral positioning remains unrestricted, providing a high degree of flexibility and adaptation to anatomical conditions.

### Adjustable Rectal Retractor

The CT/MR Fletcher Applicator Set includes an adjustable rectal retractor for immobilization without packing. Additionally, three ovoid pairs of varying sizes and four intrauterine tubes with different lengths are included to accommodate a wide variety of anatomies.

### MR Conditionality

All materials for this applicator, such as medical grade titanium, have been selected to enable MR conditionality for enhanced planning and structural integrity, to give you the confidence for accurate placement and treatment.

### Features

- Ovoid pairs in 2.0 cm, 2.5 cm and 3.0 cm diameters
- 3.2 mm intrauterine tubes with 2 cm, 4 cm, 6 cm and 8 cm lengths
- MR conditional for 1.5T and 3T
- Lightweight construction that is simple to assemble
- Rectal retractor may eliminate need for packing
- Expected lifetime is 5 years
- Optional CT/MR intrauterine smit sleeves
- Applicator also available with connections for Varian and Elekta/Nucletron transfer tubes

### Set Content SETM1409

Quantity	Item	Part number
1	CT/MR Fletcher-Suit-Delclos (FSD), right	LCZ1409-R
1	CT/MR Fletcher-Suit-Delclos (FSD), left	LCZ1409-L
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 20 mm	LCZ1409-2
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 40 mm	LCZ1409-4
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 60 mm	LCZ1409-6
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 80 mm	LCZ1409-8
1	Ovoid Pair, D = 20 mm, (2 pcs)	LCZ0612-12
1	Ovoid Pair, D = 25 mm, (2 pcs)	LCZ0612-11
1	Ovoid Pair, D = 30 mm, (2 pcs)	LCZ0612-10
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Tandem Lock Knob	LCZ0702-16
1	Distal Bracket Lock Knob	LCZ0702-17
1	Spacing Lock Knob	LCZ0508-08
1	Tandem Clamp	LCZ0702-18
1	Stainless Steel Allen Wrench	LCZ7311
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LCZ96-1522A

### Required Items

Quantity	Item	Part number
1	Transfer Tube, D=3 mm, L=1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D=3 mm, L=1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D=3 mm, L=1000 mm, Color code: blue, Channel: 3	LAF1000-3

### Optional Items

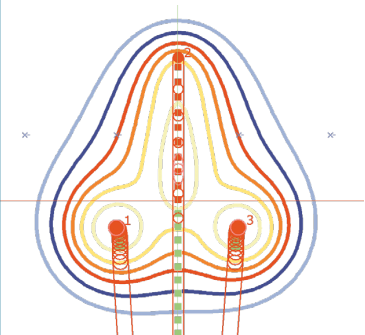
Quantity	Item	Part number
1	Ovoid Pair, D = 15 mm, (2 pcs)	LCZ0612-16
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

 **Tulip Fletcher Applicator**  
See page I - 20 for interstitial upgrade options.



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

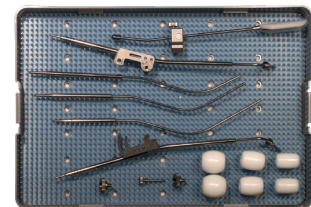
### Isodose



### Fletcher Ovoid Pairs

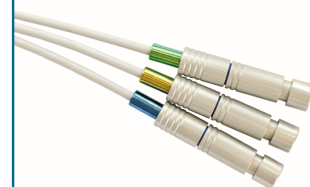


### Sterilization Box with Fletcher (FSD) Applicator Set Components



All items in SETM1409 not included in image

### Transfer Tubes



# CT/MR Henschke Applicator Set

SETM1408



 *Simplicity. Reliability. Flexibility.*  
Mick® HDR Applicators

Innovative design provides for enhanced clinical advantages and facilitates CT and MR based brachytherapy planning.

## Cervix, Endometrium

### Well-Accepted Design

The CT/MR Henschke Applicator leverages the well-accepted intrauterine tube and ovoid structure of the Henschke design, but enhances usability and flexibility. The connecting bracket is designed with concentric locking knobs that fix the intrauterine tube in place between the ovoids while the lateral positioning remains unrestricted, providing a high degree of flexibility and adaptation to anatomical conditions.

### Accessories Included

The CT/MR Henschke Applicator Set includes an adjustable rectal retractor for immobilization without packing and three ovoid pairs with three intrauterine tubes of varying sizes and curvatures to accommodate a wide variety of anatomies.

### MR Conditionality

All materials for this applicator, such as medical grade titanium, have been selected to enable MR conditionality for enhanced planning and structural integrity, to give you the confidence for accurate placement and treatment.

### Features

- Ovoid pairs in 2.0 cm, 2.5 cm and 3.0 cm diameters
- Intrauterine tubes with straight (0°), medium curve (14°) and maximum curve (41°) configurations
- CT compatible and MR conditional for 1.5T and 3T
- Lightweight construction that is simple to assemble
- Expected lifetime is 5 years
- Optional CT/MR intrauterine smit sleeves
- Applicator also available with connections for Varian and Elekta/Nucletron transfer tubes

### Set Content SETM1408

Quantity	Item	Part number
1	CT/MR Henschke Applicator, right	LCZ1408-R
1	CT/MR Henschke Applicator, left	LCZ1408-L
1	CT/MR Henschke Intrauterine Tube, straight	LCZ1408-S
1	CT/MR Henschke Intrauterine Tube, med-curve	LCZ1408-M
1	CT/MR Henschke Intrauterine Tube, max-curve	LCZ1408-MX
1	Ovoid Pair, D = 20 mm, (2 pcs)	LCZ0508-13-2.0
1	Ovoid Pair, D = 25 mm, (2 pcs)	LCZ0508-13-2.5
1	Ovoid Pair, D = 30 mm, (2 pcs)	LCZ0508-13-3.0
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Tandem Lock Knob	LCZ0508-16
1	Distal Bracket Lock Knob	LCZ0508-17
1	Spacing Lock Knob	LCZ0508-08
1	Tandem Clamp	LCZ0508-07
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LCZ96-1522A

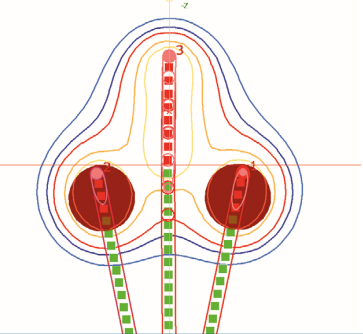
### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3

### Optional Items

Quantity	Item	Part number
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

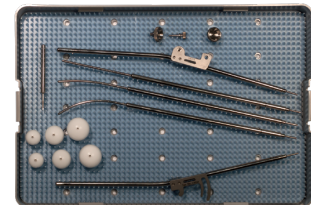
### Isodose



### Henschke Ovoid Pairs

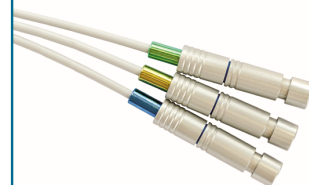


### Sterilization Box with Henschke Applicator Set Components

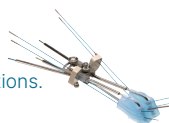


All items in SETM1408 not included in image

### Transfer Tubes



 **Tulip Henschke Applicator**  
See page I - 19 for interstitial upgrade options.



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

# CT/MR Ring Applicator Sets (30°, 45°, 60°)

SET0140, SET0141, SET0142



SET0141

CT compatible and MR conditional applicator with various configurations for expanded treatment options. Fixed ring geometry for reproducible dose distribution.



SET0140



SET0142

## Cervix, Endometrium

### Essential Brachytherapy Tool

The CT/MR Ring Applicator is based on the Stockholm technique for gynecological brachytherapy. The intrauterine tube and ring can easily be inserted. Once in place, they lock together in a fixed geometry, remaining stable and immobile during treatment. The CT/MR Ring Applicator is a versatile and important tool for gynecological brachytherapy.

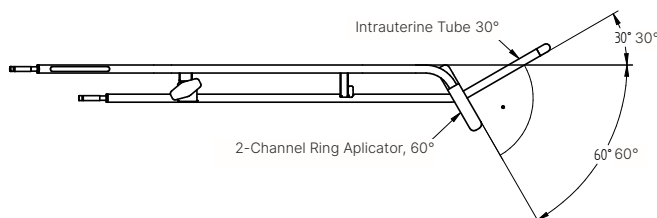
### Various Configurations

The CT/MR Ring Applicator is available in 30°, 45° and 60° sets, with the angle defined relative to the axis of the applicator. Each set consists of three 2-Channel Ring Applicators with diameters of 25 mm, 30 mm, and 35 mm, measured from center to center, along with three corresponding intrauterine tubes with lengths of 20 mm, 40 mm, and 60 mm. The polyetheretherketone rings with outer diameters of 36 mm, 42 mm and 45 mm are permanently attached.

### Targeted Dose Coverage

The fixed geometry of the CT/MR Ring Applicator provides a reproducible dose distribution for gynecological brachytherapy. The combination of a ring and an angled intrauterine tube passing through the center of the ring results in a targeted dose coverage to the endometrium and cervix.

### Guide to dimensions





### Features

- CT compatible and MR conditional
- Different intrauterine lengths, angles and ring diameters
- The fixed geometry of the Ring Applicators allows reproducible dose distributions
- Intrauterine tube and ring lock together, remaining immobile and stable
- Fixed cap of the polyetheretherketone ring reduces dose to surface by distance
- Sets are reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- Applicator can easily be attached to the applicator clamp (LAZ22-01)

### Set Content SET0140 (30°)

Quantity	Item	Part number
1	CT/MR 2-Channel Ring Applicator, 30°, D = 25 mm	LCT40-1
1	CT/MR 2-Channel Ring Applicator, 30°, D = 30 mm	LCT40-2
1	CT/MR 2-Channel Ring Applicator, 30°, D = 35 mm	LCT40-3
1	CT/MR Intrauterine Tube for Ring Applicator, 30°, L = 20 mm	LCT40-6
1	CT/MR Intrauterine Tube for Ring Applicator, 30°, L = 40 mm	LCT40-7
1	CT/MR Intrauterine Tube for Ring Applicator, 30°, L = 60 mm	LCT40-8
2	Sealing Caps, (10 pcs)	LAZ17-03

### Set Content SET0141 (45°)

Quantity	Item	Part number
1	CT/MR 2-Channel Ring Applicator, 45°, D = 25 mm	LCT41-1
1	CT/MR 2-Channel Ring Applicator, 45°, D = 30 mm	LCT41-2
1	CT/MR 2-Channel Ring Applicator, 45°, D = 35 mm	LCT41-3
1	CT/MR Intrauterine Tube for Ring Applicator, 45°, L = 20 mm	LCT41-6
1	CT/MR Intrauterine Tube for Ring Applicator, 45°, L = 40 mm	LCT41-7
1	CT/MR Intrauterine Tube for Ring Applicator, 45°, L = 60 mm	LCT41-8
2	Sealing Caps, (10 pcs)	LAZ17-03

### Set Content SET0142 (60°)

Quantity	Item	Part number
1	CT/MR 2-Channel Ring Applicator, 60°, D = 25 mm	LCT42-1
1	CT/MR 2-Channel Ring Applicator, 60°, D = 30 mm	LCT42-2
1	CT/MR 2-Channel Ring Applicator, 60°, D = 35 mm	LCT42-3
1	CT/MR Intrauterine Tube for Ring Applicator, 60°, L = 20 mm	LCT42-6
1	CT/MR Intrauterine Tube for Ring Applicator, 60°, L = 40 mm	LCT42-7
1	CT/MR Intrauterine Tube for Ring Applicator, 60°, L = 60 mm	LCT42-8
2	Sealing Caps, (10 pcs)	LAZ17-03

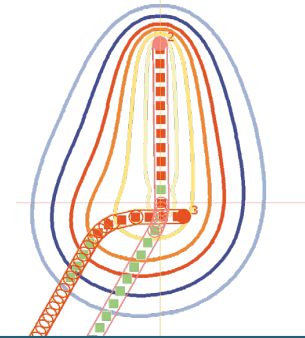
### Required Items

Quantity	Item	Part number
3	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01
1	CT/MR Rectal Retractor, LAZ09-02 screwdriver required (2.0 mm allen wrench)	LCZ50-01
1	Screwdriver, 2.0 mm	LAZ09-02
1	CT/MR Perineal Bar	LCZ51-01

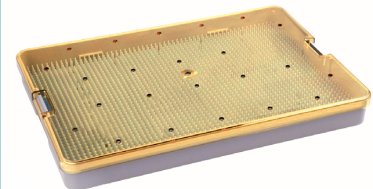
### Isodose



### Transfer Tube



### Sterilization Box



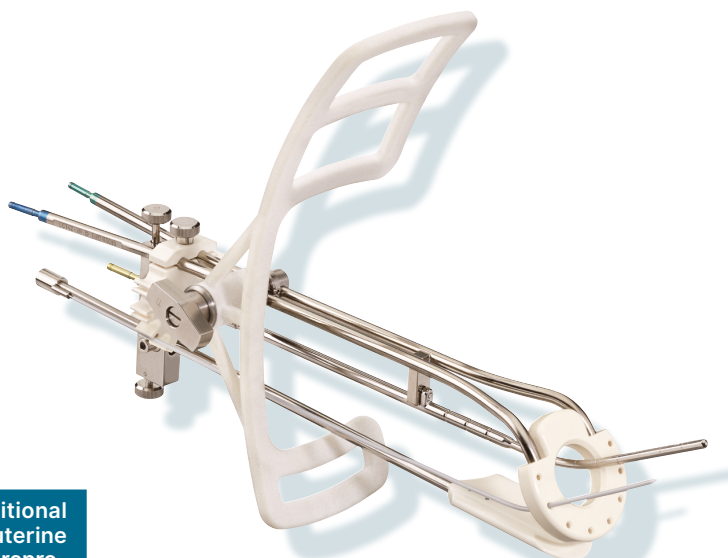
### CT/MR Rectal Retractor



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

# Interstitial CT/MR Ring Applicator Set (60°)

SET0125



CT compatible and MR conditional applicator with various intrauterine tubes. Fixed ring geometry for reproducible dose distribution and channels along the ring for additional needle placement.

## Cervix, Endometrium

### Essential Brachytherapy Tool

The Interstitial CT/MR Ring Applicator expands the treatment options for cervix and endometrium tumors with lateral expansion as is the case for parametrial tumor growth. This combination of the classical intracavitary treatment with an interstitial component leads to improved local control without increasing the side effects. The design, using titanium for the intrauterine tubes and the locking mechanism, guarantees structural stability.

### Targeted Dose Coverage

The applicator design is in line with the Vienna technique for gynecological brachytherapy combined with interstitial treatment. Image-guided needle placement in the parametrium enables the user to overcome the limitations of the classical Ring Applicator. The needle template, which is integrated in the ring, enhances the accuracy and reproducibility of needle implants. Both implants parallel to the intrauterine tube (0°) as well as implants with diverging needles (5°) are possible. Dose distributions can be tailored via MR based imaging to match the target and to spare the organs at risk.

### Various Configurations

The Interstitial CT/MR Ring Applicator Set (60°) is composed of a 30 mm Ring Applicator and four intrauterine tubes. There are three intrauterine tubes with 5 mm diameter and different intrauterine lengths: 20 mm, 40 mm, and 60 mm. Furthermore, one thin intrauterine tube with 3.5 mm diameter and a length of 60 mm adds treatment flexibility. In order to direct needles not only parallel to the intrauterine tube, but also diverging, the alternative Ring Applicator for diverging needle implants can be used. Further optional accessories such as the rectal retractor, the perineal bar and the needle collector round out the set.

### Features

- CT compatible and MR conditional
- Needle template for parallel or diverging implants integrated in the ring
- Different intrauterine lengths
- Intrauterine tube and ring lock together, remaining immobile and stable
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- Rectal retractor and perineal bar available

### Set Content SET0152

Quantity	Item	Part number
1	2-Channel Ring Applicator, 60°, D = 30 mm; Type Vienna 0°	LCT43-2
1	CT/MR Intrauterine Tube for Ring Applicator, 60°, L = 20 mm	LCT42-6
1	CT/MR Intrauterine Tube for Ring Applicator, 60°, L = 40 mm	LCT42-7
1	CT/MR Intrauterine Tube for Ring Applicator, 60°, L = 60 mm	LCT42-8
1	CT/MR Intrauterine Tube for Ring Applicator, 60°, D = 3.5 mm, L = 60 mm	LCT06-02
2	Sealing Caps, (10 pcs)	LAZ17-03

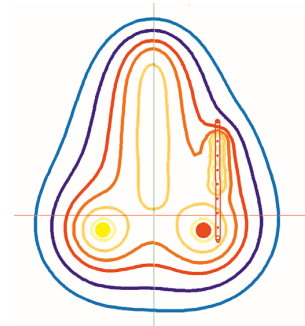
### Required Items

Quantity	Item	Part number
10	Plastic Needle, sterile, D = 1.7 mm, L = 300 mm <sup>3</sup>	LLA300-K
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3
3	CT/MR Obturator for Plastic Needles	LLH02-300
3	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

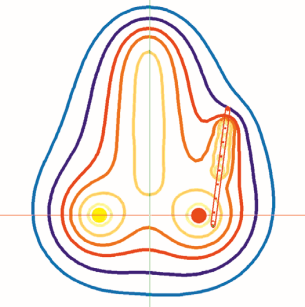
### Optional Items

Quantity	Item	Part number
1	2-Channel Ring Applicator, 60°, D = 30 mm; Type Vienna 5°	LCT43-21
1	CT/MR Rectal Retractor, LAZ09-02 screwdriver required (2.0 mm allen wrench)	LCZ50-01
1	CT/MR Perineal Bar	LCZ51-01
1	Sterilization Box, 470 x 300 x 130 mm <sup>4</sup>	LLZ06-01
1	Screwdriver, 2.0 mm	LAZ09-02
1	CT/MR Needle Collector	LCZ52-01

### Isodose Vienna 0°



### Isodose Vienna 5°



### CT/MR Perineal Bar



### CT/MR Rectal Retractor



<sup>3</sup> Manufactured by BEST Medical International, Inc.

<sup>4</sup> Manufactured by Gebrüder Martin GmbH & Co. KG

# CT/MR Split Ring Applicator Sets (30°, 45°, 60°)

SETM1401, SETM1401-30,  
SETM1401-45, SETM1401-60



 *Simplicity. Reliability. Flexibility.*  
Mick® HDR Applicators

Innovative, patented design provides for enhanced clinical advantages and facilitates CT and MR based brachytherapy planning.

## Cervix, Endometrium

### Well-Accepted Design

The CT/MR Split Ring Applicator's patented design combines the benefits of several other intracavitary applicators, with the ability to be configured as a closed ring or split into four different diameter distances in either symmetric or asymmetric arrangements. The connecting bracket enables simple connection and easy confirmation of diameter settings with three clearly visible identifiers associated with physical detents to lock in the chosen position.

### Patents Granted

US7666130B2

US8033979B2

EP2038008B1

### Various Configurations

The Split Ring Applicator Combination Set includes configurations for 30°, 45° and 60° 'ring' angles with a variety of intrauterine tube lengths and disposable or optional reusable build-up caps in different sizes to fit a wide variety of anatomies.

### MR Conditionality

All materials for this applicator, such as medical grade titanium, have been selected to enable MR conditionality for enhanced planning and structural integrity, to give you the confidence for accurate placement and treatment.

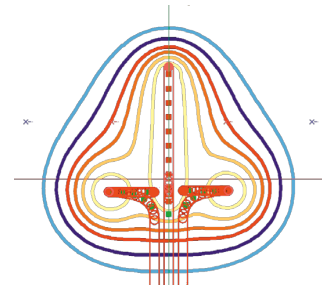
### Features

- Split Ring symmetric diameters of 38 mm, 48 mm, 58 mm and 68 mm
- Reproducible geometry with diameter increments of as little as 5 mm based on single-side tube adjustment
- 3.2 mm intrauterine tubes with intrauterine sections of 20 mm, 40 mm, 60 mm and 80 mm for each of three angles (30°, 45°, 60°)
- Split Ring Applicators are CT compatible and MR conditional
- High quality – streak-free CT images for precise planning
- Lightweight yet sturdy titanium design
- Unique dose distribution flexibility and adjustability
- Individual insertion of right and left Split Ring tubes facilitates insertion in patients with a narrow introitus
- Physician friendly-easy assembly and disassembly
- Packing may be obviated with the use of the rectal retractor
- Expected lifetime is 5 years
- Optional CT/MR intrauterine smit sleeves
- Applicator also available with connections for Varian and Elekta/Nucletron transfer tubes

### Set Content SETM1401-CT/MR Split Ring Applicator Combo Set

Quantity	Item	Part number
1	CT/MR Split Ring, 30°, right tube	LCZ1401-30R
1	CT/MR Split Ring, 30°, left tube	LCZ1401-30L
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 20 mm	LCZ1401-30-2
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 40 mm	LCZ1401-30-4
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 60 mm	LCZ1401-30-6
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 80 mm	LCZ1401-30-8
1	CT/MR Split Ring, 45°, right tube	LCZ1401-45R
1	CT/MR Split Ring, 45°, left tube	LCZ1401-45L
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 20 mm	LCZ1401-45-2
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 40 mm	LCZ1401-45-4
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 60 mm	LCZ1401-45-6
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 80 mm	LCZ1401-45-8
1	CT/MR Split Ring, 60°, right tube	LCZ1401-60R
1	CT/MR Split Ring, 60°, left tube	LCZ1401-60L
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 20 mm	LCZ1401-60-2
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 40 mm	LCZ1401-60-4
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 60 mm	LCZ1401-60-6
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 80 mm	LCZ1401-60-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

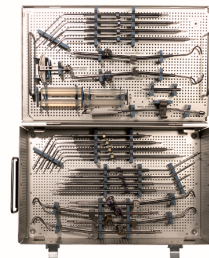
### Isodose



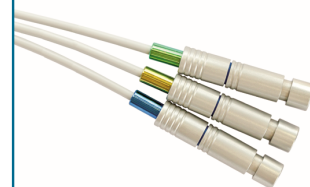
### Build-Up-Caps



### Sterilization Tray with Split Ring Applicator Set Components



### Transfer Tubes



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**Set Content SETM1401-30-CT/MR Split Ring Applicator 30° Set**

Quantity	Item	Part number
1	CT/MR Split Ring, 30°, right tube	LCZ1401-30R
1	CT/MR Split Ring, 30°, left tube	LCZ1401-30L
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 20 mm	LCZ1401-30-2
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 40 mm	LCZ1401-30-4
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 60 mm	LCZ1401-30-6
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 80 mm	LCZ1401-30-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

**Set Content SETM1401-45-CT/MR Split Ring Applicator 45° Set**

Quantity	Item	Part number
1	CT/MR Split Ring, 45°, right tube	LCZ1401-45R
1	CT/MR Split Ring, 45°, left tube	LCZ1401-45L
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 20 mm	LCZ1401-45-2
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 40 mm	LCZ1401-45-4
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 60 mm	LCZ1401-45-6
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 80 mm	LCZ1401-45-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

### Set Content SETM1401-60-CT/MR Split Ring Applicator 60° Set

Quantity	Item	Part number
1	CT/MR Split Ring, 60°, right tube	LCZ1401-60R
1	CT/MR Split Ring, 60°, left tube	LCZ1401-60L
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 20 mm	LCZ1401-60-2
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 40 mm	LCZ1401-60-4
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 60 mm	LCZ1401-60-6
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 80 mm	LCZ1401-60-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3

### Optional Items

Quantity	Item	Part number
1	Build-Up Caps, 5.0 mm x 5.0 mm, reusable, (2 pcs)	LCZ1305-01-01
1	Build-Up Caps, 5.0 mm x 7.5 mm, reusable, (2 pcs)	LCZ1305-01-02
1	Build-Up Caps, 7.5 mm x 5.0 mm, reusable, (2 pcs)	LCZ1305-01-03
1	Build-Up Caps, 7.5 mm x 7.5 mm, reusable, (2 pcs)	LCZ1305-01-04
1	Build-Up Caps, 5.0 mm x 10 mm, reusable, (2 pcs)	LCZ1305-01-05
1	Build-Up Caps, 10 mm x 10 mm, reusable, (2 pcs)	LCZ1305-01-06
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

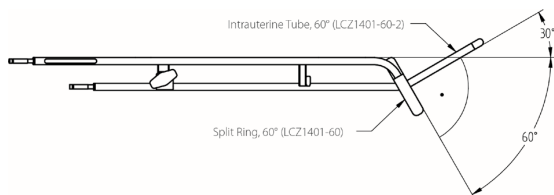
### For replacement orders:

#### Please order based on the 'ring angle':

CT/MR Split Ring, 30°, right & left tube with CT/MR Split Ring Intrauterine Tube, 30°

CT/MR Split Ring, 45°, right & left tube with CT/MR Split Ring Intrauterine Tube, 45°

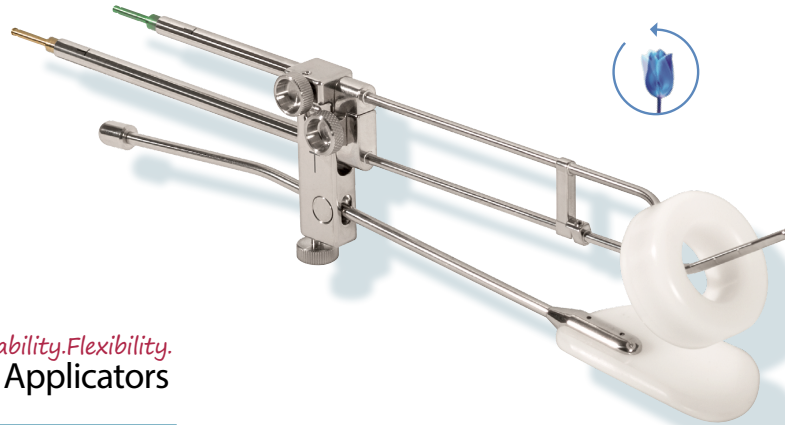
CT/MR Split Ring, 60°, right & left tube with CT/MR Split Ring Intrauterine Tube, 60°





# CT/MR Ring & Tandem Applicator Sets

SETM0922, SETM1402



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning.

## Cervix, Endometrium

### Simplicity

The CT/MR Ring & Tandem Applicator is designed to treat accurately and reliably in nearly any anatomy with a range of ring angles, intrauterine tube lengths, build-up cap sizes and an optional rectal retractor to increase distance to organs at risk and eliminate the need for packing. The single ring tube treats the circumference of the cervix and there is only one connection for efficient placement and procedure.

### Flexibility

The CT/MR Ring & Tandem Applicator is available in 30°, 45° and 60° (defined by intrauterine tube angle) configurations to effectively treat a variety of anatomies. 5 mm or 7.5 mm build-up caps are available for enhanced source spacing.

### Reliability

The titanium construction with laser welded connections allows for enhanced stability and torque resistance. The dual fixation points ensure alignment every time.

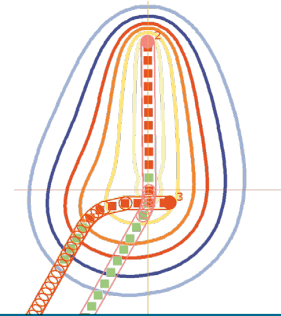
### Features

- Autoclavable components
- Expected lifetime is 5 years
- 3.2 mm intrauterine tubes
- Removable build-up caps attach to any angle ring tube, no tools required
- Optional rectal retractor
- Significant dose coverage with two channels
- Applicator also available with connections for Varian and Elekta/Nucletron transfer tubes

### Set Content SETM0922-CT/MR Ring & Tandem Applicator Combo 32 mm Set

Quantity	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 32 mm	LCZ0922-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	LCZ0922-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	LCZ0922-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	LCZ0922-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 32 mm	LCZ0922-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	LCZ0922-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	LCZ0922-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	LCZ0922-45-6
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 32 mm	LCZ0922-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	LCZ0922-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	LCZ0922-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	LCZ0922-60-6
1	Rectal Retractor Assembly	LCZ1208-05
1	Ring 32 mm Build-Up Cap, 5.0 mm (black)	LCZ0213-63-1
1	Ring 32 mm Build-Up Cap, 7.5 mm (white)	LCZ0213-63-2
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Tray	SS00871000

### Isodose



### Ring & Tandem Build-Up Caps



### Transfer Tubes



**Set Content SETM1402-CT/MR Ring & Tandem Applicator Combo 26 mm Set**

Quantity	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 26 mm	LCZ1402-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	LCZ1402-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	LCZ1402-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	LCZ1402-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 26 mm	LCZ1402-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	LCZ1402-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	LCZ1402-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	LCZ1402-45-6
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 26 mm	LCZ1402-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	LCZ1402-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	LCZ1402-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	LCZ1402-60-6
1	Rectal Retractor Assembly	LCZ1208-05
1	Ring 26 mm Build-Up Cap, 5.0 mm (black)	LCZ0902-63-1
1	Ring 26 mm Build-Up Cap, 7.5 mm (white)	LCZ0902-63-2
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Tray	SS00871000

**Required Items**

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2

**Optional Items**

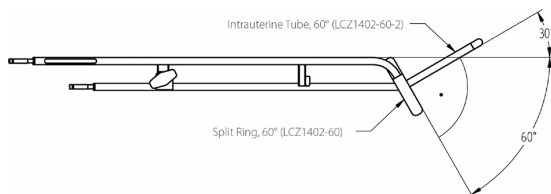
Quantity	Item	Part number
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

**For replacement orders:**
**Please order based on the 'ring angle':**

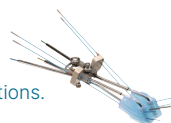
CT/MR Ring &amp; Tandem, 30°, Ring Assembly with CT/MR Ring &amp; Tandem Intrauterine Tube, 30°

CT/MR Ring &amp; Tandem, 45°, Ring Assembly with CT/MR Ring &amp; Tandem Intrauterine Tube, 45°

CT/MR Ring &amp; Tandem, 60°, Ring Assembly with CT/MR Ring &amp; Tandem Intrauterine Tube, 60°


**Tulip Ring Applicator**

See page I - 19 for interstitial upgrade options.



# CT/MR Endometrium Applicator Sets

SET0122



CT compatible and MR conditional applicators for brachytherapy treatments of endometrium carcinoma. Available in two different diameters.

## Endometrium

### CT/MR Compatibility

The CT/MR Endometrium Applicator Set allows for brachytherapy treatments of the corpus uteri. It is designed for ease of use, while having the ability to provide comprehensive dose coverage to the target volume.

### Proven Design

This applicator with a 3.5 mm diameter consists of two separate titanium intrauterine tubes that are easily inserted into the uterus. The two intrauterine tubes are locked together, remaining stable and immobile during treatment.

### Precise Dose Distribution

The "Y" shape applicator provides a distinctive dose distribution that encompasses the entire endometrium. The CT/MR Endometrium Applicator Set is an exceptional applicator for gynecological brachytherapy.

### Features

- CT compatible and MR conditional
- Intrauterine tubes lock together, remaining stable and immobile during treatment
- Applicator design provides precise dose distribution
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization

### Set Content SET0122

Quantity	Item	Part number
1	Endometrium Applicator, D = 3.5 mm	LCT70-01
2	Sealing Caps, (10 pcs)	LAZ17-03

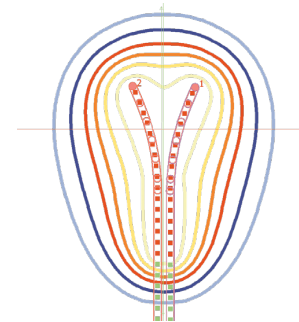
### Required Items SET0122

Quantity	Item	Part number
2	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01

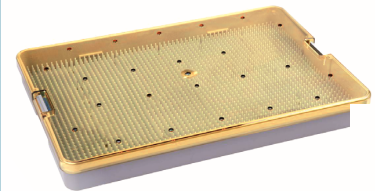
### Isodose



### Transfer Tube



### Sterilization Box



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

# CT/MR 2/3 Channel Endometrial Applicator Sets

SETM1405, SETM1405-3, SETM1405-5



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning.

## Endometrium

### Simplicity

The CT/MR 2/3 Channel Endometrial Applicator is designed for simplicity, even in the most advanced settings. It enables accurate and complete treatment with multiple lateral intrauterine tube spread distances and the ability to use a single applicator as either a two or three channel set. The single bracket connects all three intrauterine tubes with one lock knob and the key and lock design ensures proper lateral tube alignment.

### Flexibility

The CT/MR 2/3 Channel Endometrial Applicator is available in 3 cm or 5 cm configurations, both of which can be used as either two or three channel applicators, to effectively treat a variety of anatomies and disease states.

### Reliability

The titanium construction with laser welded connections allows for enhanced stability and torque resistance. The key and lock design ensures proper lateral tube alignment.

### Features

- Autoclavable components
- Expected lifetime is 5 years
- Configurations for 3 cm and 5 cm spread
- 3.2 mm tube diameter
- Substantial dose coverage with a single set enabling two or three intrauterine tube configurations
- Simple, key lock bracket connection
- Applicator also available with connections for Varian and Elekta/Nucletron transfer tubes

### Set Content SETM1405

#### -CT/MR 2/3 Channel Endometrial Applicator Combo Set

Quantity	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 3 cm	LCZ1405-R-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 3 cm	LCZ1405-L-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 3 cm	LCZ1405-IU-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 5 cm	LCZ1405-R-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 5 cm	LCZ1405-L-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 5 cm	LCZ1405-IU-5
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LCZ96-1522A

### Set Content SETM1405-3

#### -CT/MR 2/3 Channel Endometrial Applicator 3 cm Spr-ead Set

Quantity	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 3 cm	LCZ1405-R-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 3 cm	LCZ1405-L-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 3 cm	LCZ1405-IU-3
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LCZ96-1522A

### Set Content SETM1405-5

#### -CT/MR 2/3 Channel Endometrial Applicator 5 cm Spr-ead Set

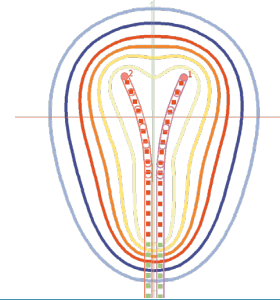
Quantity	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 5 cm	LCZ1405-R-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 5 cm	LCZ1405-L-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 5 cm	LCZ1405-IU-5
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LCZ96-1522A

### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3

<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

### Isodose for 2-Channel Configuration

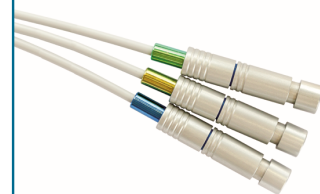


### Sterilization Box with 2/3 Channel Endometrial Applicator Combo Set Components



All items in SETM1405 not included in image

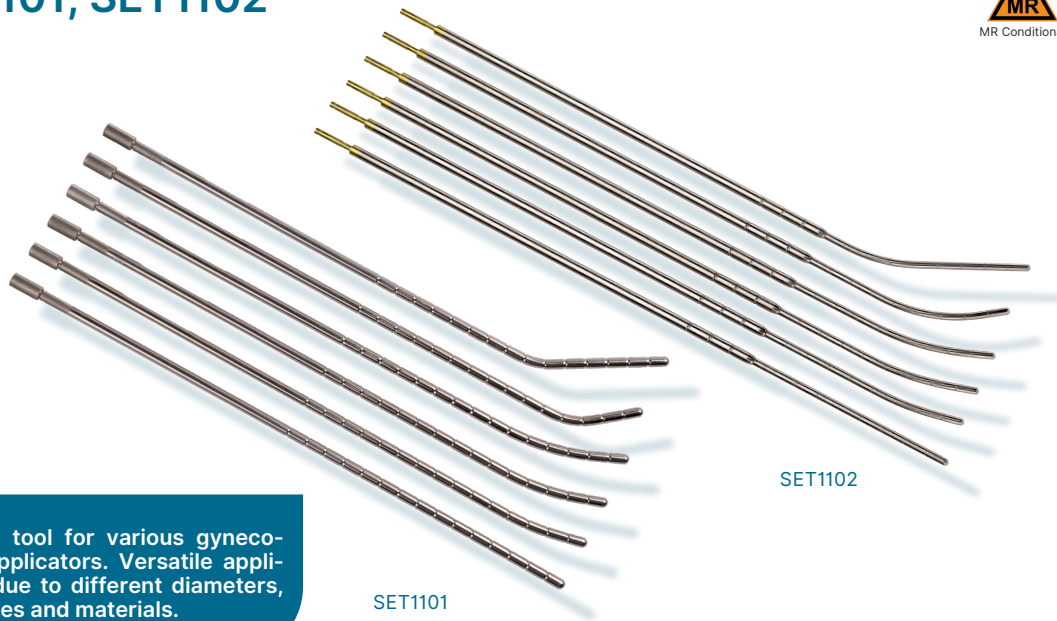
### Transfer Tubes





# CT/MR Intrauterine Tubes

## SET1101, SET1102



Essential tool for various gynecological applicators. Versatile applications due to different diameters, geometries and materials.

SET1101

SET1102

Vagina, Cervix, Endometrium, Rectum

### HDR Intracavitary Brachytherapy

The CT/MR Intrauterine Tube Sets are used together with BEBIG Medical applicators in gynecological or rectal treatments. As the Ring Applicator Sets come with dedicated intrauterine tubes, the CT/MR Intrauterine Tube Sets (SET1101, SET1102) are not necessary for the Ring Applicators.

### Features

- Suitable for HDR intracavitary brachytherapy treatments
- Available in different diameters (5 mm and 3.5 mm), intrauterine angles and intrauterine lengths
- Compatible with all BEBIG Medical gynecological applicators except the Ring Applicators

### Fitting Patient Anatomy

All three sets contain six intrauterine tubes one straight intrauterine tube and five intrauterine tubes with different angles and intrauterine lengths, which allows easy adaptation to the patient's anatomy. While the straight intrauterine tube is mainly used for vaginal and rectal treatment, the others are used to deliver dose to the cervix and uterus.

### Enhanced Usability

All intrauterine tubes have indentations for the holding discs, which are positioned in 1 cm intervals on the tube. These facilitate application during intrauterine treatments and help to recognize the applicator on images. Furthermore, in order to provide additional product safety, the thin intrauterine tubes (SET1102) are color-coded for use with color-coded 3-Channel Applicators.

**Set Content SET1101; D = 5 mm, titanium**

Quantity	Item	Part number
1	CT/MR Intrauterine Tube, straight	LCR01-01
1	CT/MR Intrauterine Tube, bent, D = 5 mm, L = 40 mm	LCR02-01
1	CT/MR Intrauterine Tube, bent, D = 5 mm, L = 50 mm	LCR03-01
1	CT/MR Intrauterine Tube, bent, D = 5 mm, L = 60 mm	LCR04-01
1	CT/MR Intrauterine Tube, bent, 40°, D = 5 mm, L = 35 mm	LCR05-01
1	CT/MR Intrauterine Tube, bent, 30°, D = 5 mm, L = 65 mm	LCR06-01
2	Sealing Caps for LARXX-XX and LCRXX-XX, (10 pcs)	LAZ17-02

**Set Content SET1102; D = 3.5 mm, titanium**

Quantity	Item	Part number
1	CT/MR Intrauterine Tube, straight, thin, D = 3.5 mm	LCT01-01
1	CT/MR Intrauterine Tube, thin, 15°, D = 3.5 mm, L = 25 mm	LCT02-01
1	CT/MR Intrauterine Tube, thin, 20°, D = 3.5 mm, L = 30 mm	LCT03-01
1	CT/MR Intrauterine Tube, thin, 25°, D = 3.5 mm, L = 35 mm	LCT04-01
1	CT/MR Intrauterine Tube, thin, 40°, D = 3.5 mm, L = 35 mm	LCT05-01
1	CT/MR Intrauterine Tube, thin, 30°, D = 3.5 mm, L = 65 mm	LCT06-01
2	Sealing Caps, (10 pcs)	LAZ17-03

**Required Items SET1101**

Quantity	Item	Part number
1	Universal Applicator incl. plug, D = 3 mm, L = 1400 mm	LAA1400-GYN

**Required Items SET1102**

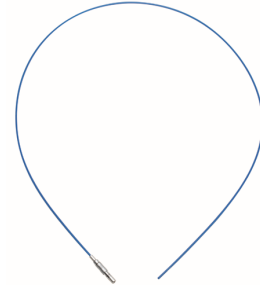
Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

**Optional Items SET1101**

Quantity	Item	Part number
1	Holding Discs for Gyn. Applicators, d = 5.0 mm, D = 15 mm, (5 pcs)	LAZ03-01
1	CT/MR Holding Discs for Gyn. Applicators, d = 5.0 mm, D = 15 mm, (5 pcs)	LCZ03-01
1	Opening Forceps for Holding Discs <sup>2</sup>	LAH05-03

**Optional Items SET1102**

Quantity	Item	Part number
1	CT/MR Holding Discs for Gyn. Applicators, d = 3.5 mm, D = 15 mm, (5 pcs)	LCZ03-03
1	Opening Forceps for Holding Discs <sup>2</sup>	LAH05-03

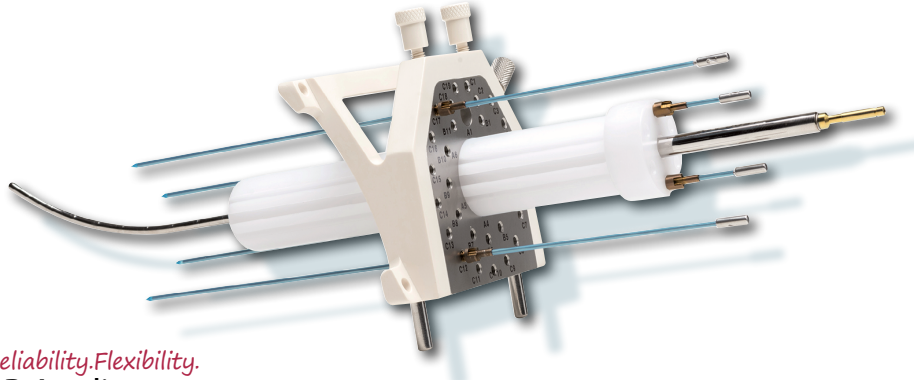
**Universal Applicator**

**Transfer Tube**

**Opening Forceps for Holding Discs**

<sup>2</sup> Manufactured by Otto Leibinger GmbH

# CT/MR M.A.C. Interstitial GYN Template Sets

SETM1506-XX, SETM1507-XX



*Simplicity. Reliability. Flexibility.*  
Mick® HDR Applicators

Facilitates advanced CT and MR based planning.

Vagina, Cervix, Endometrium

## Simplicity

The detachable template and optional intrauterine tube design, enables quick setup and simplifies cleaning. Concentric needle channels allow efficient planning and treatment, and the cervical stop enhances repeatability while reducing the risk of uterus perforation.

## Flexibility

The CT/MR M.A.C. Interstitial GYN Template features a template design with an optional intrauterine tube enabling complete or targeted treatment of the vagina, cervix, endometrium and parametrium. The set, named for the Mick-Alektiar-Cohen collaboration, is available with 36 needle channels and a variety of diameters, to easily integrate the system into your current practice. 30° and 0° intrauterine tube and needle-only configurations offer an effective treatment of a variety of anatomies and diseases. Concentric needle channels provide targeted unilateral or bilateral parametrial needle placement which are individually fixed into place by locking collets.

## Reliability

The titanium insert construction and collets with PPSU body allow for enhanced stability while the keyed interfaces ensure consistent alignment of channels and needles.

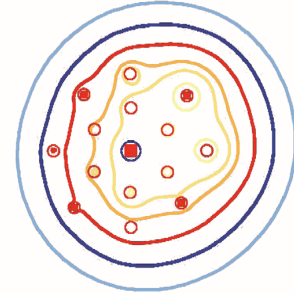
### Features

- Autoclavable components
- Expected lifetime is 5 years
- MR conditionality allows for 1.5T or 3T
- Enhanced control of needle placement with 36 standard needle channels
- Available in channel diameters for 15.5G, 17G, 18G, 1.65 mm and 2.0 mm needles
- Contoured shape to fit patient perineum
- Optional CT/MR intrauterine smit sleeves

### Set Content SETM1506-EZ-17

Quantity	Item	Part number
1	CT/MR M.A.C. Intrauterine Tube, straight (Titanium)	LCZ1506-ST
1	CT/MR M.A.C. Intrauterine Tube, medium curve (Titanium)	LCZ1506-MD
1	CT/MR M.A.C. Intrauterine Tube, maximum curve (Titanium)	LCZ1506-MX
1	M.A.C. Interstitial GYN Template (Body)	LCZ1506-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1506-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Cervical Stop	LCZ0508-10
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm <sup>3</sup>	LCZ96-1522A
1	Vaginal Obturator, 17G, D = 2.5 cm, L = 14 cm	LCZ0918-15-17
1	Obturator Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-05-EZ-17
6	Template Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-01-EZ-17

### Isodose



### Template Needle Collets



### Obturator Needle Collets



### Disposable Steel Needle Set



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### Set Content SETM1506-EZ-1.65

Quantity	Item	Part number
1	CT/MR M.A.C. Intrauterine Tube, straight (Titanium)	LCZ1506-ST
1	CT/MR M.A.C. Intrauterine Tube, medium curve (Titanium)	LCZ1506-MD
1	CT/MR M.A.C. Intrauterine Tube, maximum curve (Titanium)	LCZ1506-MX
1	M.A.C. Interstitial GYN Template (Body)	LCZ1506-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1506-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Cervical Stop	LCZ0508-10
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm <sup>3</sup>	LCZ96-1522A
1	Vaginal Obturator, 1.65 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-1.65
1	Obturator Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-05-EZ-1.65
6	Template Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-01-EZ-1.65

### Set Content SETM1506-2.0

Quantity	Item	Part number
1	CT/MR M.A.C. Intrauterine Tube, straight (Titanium)	LCZ1506-ST
1	CT/MR M.A.C. Intrauterine Tube, medium curve (Titanium)	LCZ1506-MD
1	CT/MR M.A.C. Intrauterine Tube, maximum curve (Titanium)	LCZ1506-MX
1	M.A.C. Interstitial GYN Template (Body)	LCZ1506-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1506-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Cervical Stop	LCZ0508-10
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm <sup>3</sup>	LCZ96-1522A
1	Vaginal Obturator, 2.0 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-2.0
1	Obturator Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1211-05-2.0
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1105-01-2.0

**Set Content SETM1507-EZ-17**

Quantity	Item	Part number
1	M.A.C. Interstitial GYN Template (Body)	LCZ1507-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1507-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Sterilization Box, 381 x 254 x 38 mm <sup>3</sup>	LCZ96-1522A
1	Vaginal Obturator, 17G, D = 2.5 cm, L = 14 cm	LCZ0918-15-17
1	Obturator Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-05-EZ-17
6	Template Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-01-EZ-17

**Set Content SETM1507-EZ-1.65**

Quantity	Item	Part number
1	M.A.C. Interstitial GYN Template (Body)	LCZ1507-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1507-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Sterilization Box, 381 x 254 x 38 mm <sup>3</sup>	LCZ96-1522A
1	Vaginal Obturator, 1.65 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-1.65
1	Obturator Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-05-EZ-1.65
6	Template Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-01-EZ-1.65

**Set Content SETM1507-2.0**

Quantity	Item	Part number
1	M.A.C. Interstitial GYN Template (Body)	LCZ1507-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1507-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Sterilization Box, 381 x 254 x 38 mm <sup>3</sup>	LCZ96-1522A
1	Vaginal Obturator, 2.0 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-2.0
1	Obturator Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1211-05-2.0
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1105-01-2.0

**Required Items SETM1506-EZ-17, SETM1507-EZ-17**

Quantity	Item	Part number
1	Disposable Steel Needle Set	SET0052
20	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

**Required Items SETM1506-EZ-1.65**

Quantity	Item	Part number
1	Plastic Needle Set	SET0012
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

**Required Items SETM1506-2.0**

Quantity	Item	Part number
20	Plastic Needle, sterile, D = 2.0 mm, L = 250 mm, 15G <sup>3</sup>	LLA250-K15
5	CT/MR Obturator for 15G Needle, sterile, L = 250 mm <sup>3</sup>	LLH04-250B15
20	Easy Click Transfer Tube 6F, D = 3.0 mm, L = 1000 mm	LAG1000-6F
1	Transfer Tube, D = 3.0 mm, L = 1000 mm	LAF1000

**Required Items SETM1507-EZ-1.65**

Quantity	Item	Part number
1	Plastic Needle Set	SET0012
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

**Required Items SETM1507-2.0**

Quantity	Item	Part number
20	Plastic Needle, sterile, D = 2.0 mm, L = 250 mm, 15G <sup>3</sup>	LLA250-K15
5	CT/MR Obturator for 15G Needle, sterile, L = 250 mm <sup>3</sup>	LLH04-250B15
20	Easy Click Transfer Tube 6F, D = 3.0 mm, L = 1000 mm	LAG1000-6F

**Optional Items**

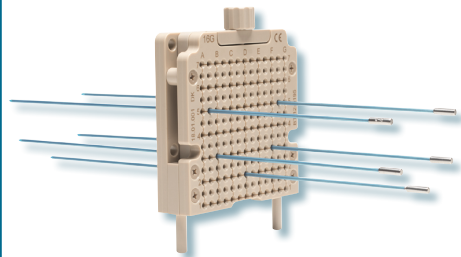
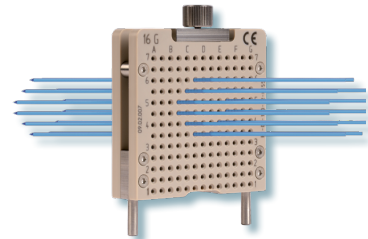
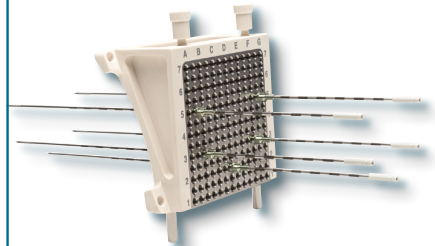
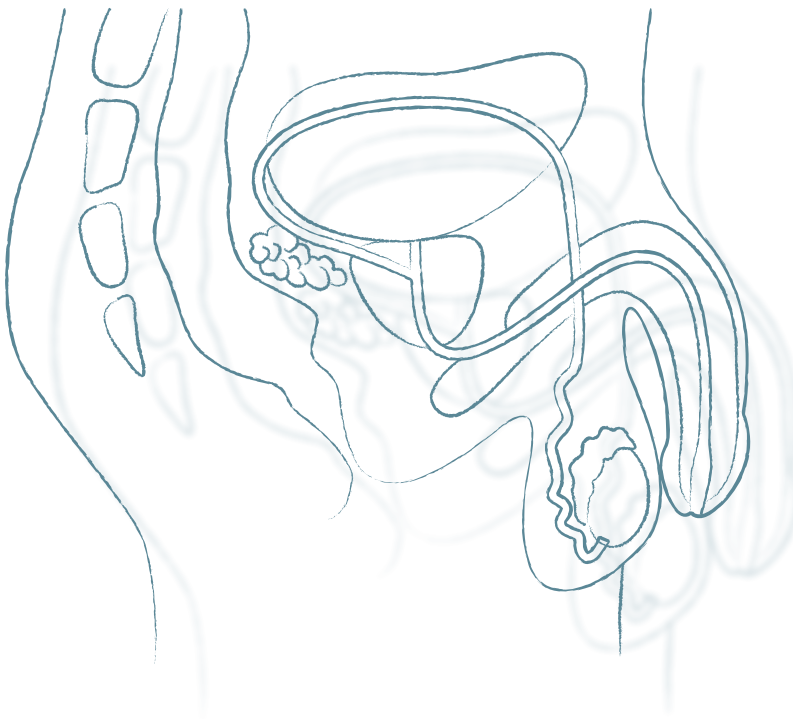
Quantity	Item	Part number
1	Basket with lid for cleaning and sterilizing of small parts, 121 x 73 x 36 mm <sup>5</sup>	LLZ07-01
1	Vaginal Obturator, 17G, D = 2.5 cm, L = 19 cm	LCZ0918-19-17
1	Vaginal Obturator, 1.65 mm, D = 2.5 cm, L = 19 cm	LCZ0918-19-1.65
1	Vaginal Obturator, 2.0 mm, D = 2.5 cm, L = 19 cm	LCZ0918-19-2.0
1	Vaginal Obturator Needle Guide, 17G	LCZ0918-06-17
1	Vaginal Obturator Needle Guide, 1.65 mm	LCZ0918-06-1.65
1	Vaginal Obturator Needle Guide, 2.0 mm	LCZ0918-06-2.0
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>3</sup> Manufactured by BEST Medical International, Inc.

<sup>5</sup> Manufactured by Kögel GmbH

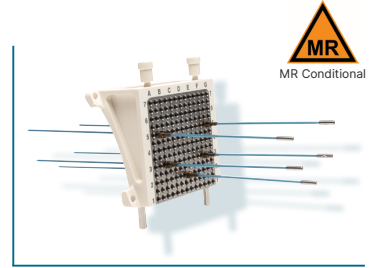
# Prostate





# CT/MR Contour Prostate Template Sets

SETM1204-02-XX, SETM1204-04-XX,  
SETM1206-02-XX, SETM1206-04-XX



 *Simplicity. Reliability. Flexibility.*  
Mick® HDR Applicators

Facilitates interstitial needles for the treatment of the prostate.

## Prostate

### Simplicity

The CT/MR Contour Prostate Template facilitates the placement of interstitial needles for the treatment of prostate cancer. All templates are laser engraved with letters to denote the different vertical columns of needle channels and with numbers to denote the different horizontal rows of needle channels. The numbering/lettering layout corresponds to the type of ultrasound system being used.

### Flexibility

The CT/MR Contour Prostate Template is available to accommodate needles of different gauges, which are securely held in place by color-coded needle collets associated with the appropriate needle size. Both small and large template sizes are provided. The CT/MR Contour Prostate Template is curved to fit the sloping anatomy of the perineum. There are four suture holes provided for optional fixation of the template to the perineum.

### Reliability

The CT/MR Contour Prostate Template is constructed of PPSU (Polyphenylsulfone) and the template inserts and needle collets are constructed of titanium for continuous use and steam sterilization.

### Features

- Contoured to fit the sloping perineum
- Reusable and autoclavable
- MR conditionality allows for 1.5T or 3T
- Individual locking collet design enhances needle targeting
- Available for variety of needle sizes: 15.5G, 17G, 18G, 1.65 mm, 2 mm
- Provided with four suture holes allowing the template to be directly sutured to the perineum
- Resistance-free bore holes for smooth needle entry
- Durable construction

### Set Content SETM1204-02-EZ-17 (Small Matrix), for CIVCO Steppers, BK labeling scheme

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, small matrix, 17G	
1	CT/MR Contour Prostate Template Titanium Insert, small matrix, 17G	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-01-EZ-17

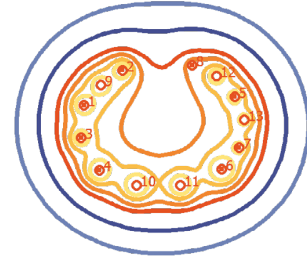
### Set Content SETM1204-02-EZ-1.65 (Small Matrix), for CIVCO Steppers, BK labeling scheme

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, small matrix, 1.65 mm	
1	CT/MR Contour Prostate Template Titanium Insert, small matrix, 1.65 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-01-EZ-1.65

### Set Content SETM1204-02-2.0 (Small Matrix), for CIVCO Steppers, BK labeling scheme

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, small matrix, 2.0 mm	
1	CT/MR Contour Prostate Template Titanium Insert, small matrix, 2.0 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1105-01-2.0

### Isodose



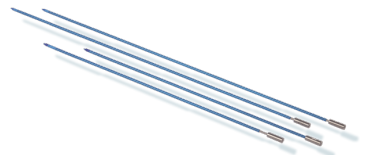
### Template Needle Collets



### Disposable Steel Needle Set



### Plastic Needle Set



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**Set Content SETM1204-04-EZ-17 (Small Matrix), for CIVCO Steppers, Siemens labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, small matrix, 17G	
1	CT/MR Contour Prostate Template Titanium Insert, small matrix, 17G	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-01-EZ-17

**Set Content SETM1204-04-EZ-1.65 (Small Matrix), for CIVCO Steppers, Siemens labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, small matrix, 1.65 mm	
1	CT/MR Contour Prostate Template Titanium Insert, small matrix, 1.65 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-01-EZ-1.65

**Set Content SETM1204-04-2.0 (Small Matrix), for CIVCO Steppers, Siemens labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, small matrix, 2.0 mm	
1	CT/MR Contour Prostate Template Titanium Insert, small matrix, 2.0 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1105-01-2.0

**Set Content SETM1206-02-EZ-17 (Large Matrix), for CIVCO Steppers, BK labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, large matrix, 17G	
1	CT/MR Contour Prostate Template Titanium Insert, large matrix, 17G	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-01-EZ-17

**Set Content SETM1206-02-EZ-1.65 (Large Matrix), for CIVCO Steppers,BK labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, large matrix, 1.65 mm	
1	CT/MR Contour Prostate Template Titanium Insert, large matrix, 1.65 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-01-EZ-1.65

**Set Content SETM1206-02-2.0 (Large Matrix), for CIVCO Steppers,BK labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, large matrix, 2.0 mm	
1	CT/MR Contour Prostate Template Titanium Insert, large matrix, 2.0 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1105-01-2.0

**Set Content SETM1206-04-EZ-17 (Large Matrix), for CIVCO Steppers,Siemens labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, large matrix, 17G	
1	CT/MR Contour Prostate Template Titanium Insert, large matrix, 17G	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), seafoam, 17G, (6 pcs)	LCZ1105-01-EZ-17

**Set Content SETM1206-04-EZ-1.65 (Large Matrix), for CIVCO Steppers,Siemens labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, large matrix, 1.65 mm	
1	CT/MR Contour Prostate Template Titanium Insert, large matrix, 1.65 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-01-EZ-1.65

**Set Content SETM1206-04-2.0 (Large Matrix), for CIVCO Steppers, Siemens labeling scheme**

Quantity	Item	Part number
1	CT/MR Contour Prostate Template PPSU Body, large matrix, 2.0 mm	
1	CT/MR Contour Prostate Template Titanium Insert, large matrix, 2.0 mm	
1	Titanium Collet Wrench	LCZ1205-02
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1105-01-2.0
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01

**Required Items SETM1204-02-EZ-17, SETM1204-04-EZ-17, SETM1206-02-EZ-17, SETM1206-04-EZ-17**

Quantity	Item	Part number
1	Disposable Steel Needle Set	SET0052
20	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

**Required Items SETM1204-02-EZ-1.65, SETM1204-04-EZ-1.65, SETM1206-02-EZ-1.65, SETM1206-04-EZ-1.65**

Quantity	Item	Part number
1	Plastic Needle Set	SET0012
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

**Required Items SETM1204-02-2.0, SETM1204-04-2.0, SETM1206-02-2.0, SETM1206-04-2.0**

Quantity	Item	Part number
20	Plastic Needle, sterile, D = 2.0 mm, L = 250 mm, 15G <sup>3</sup>	LLA250-K15
5	CT/MR Obturator for 15G Needle, sterile, L = 250 mm <sup>3</sup>	LLH04-250B15
20	Easy Click Transfer Tube 6F, D = 3.0 mm, L = 1000 mm	LAG1000-6F

**Optional Items**

Quantity	Item	Part number
1	Basket with lid for cleaning and sterilizing of small parts, 121 x 73 x 36 mm <sup>5</sup>	LLZ07-01

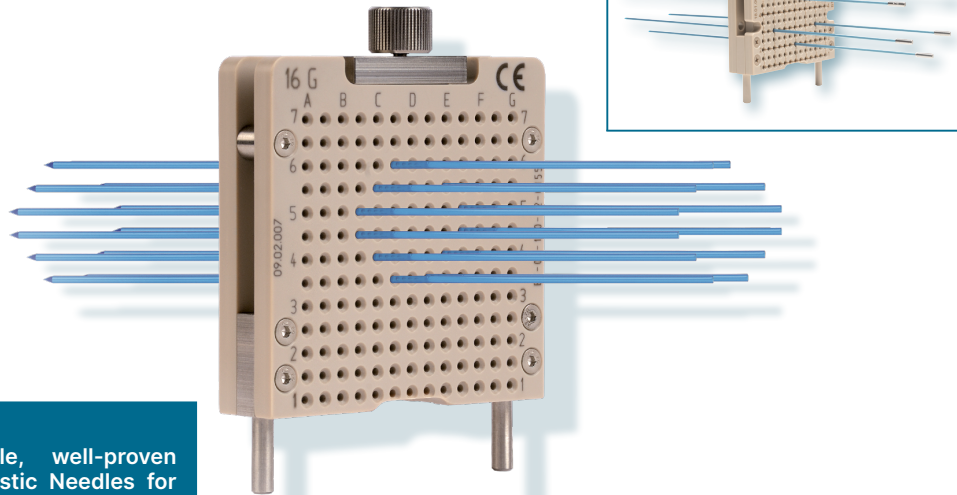
<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>3</sup> Manufactured by BEST Medical International, Inc.

<sup>5</sup> Manufactured by Kögel GmbH

# Prostate Set with Plastic Needles

SET0070



Widely compatible, well-proven Template with Plastic Needles for HDR treatment of prostate cancer.

## Prostate

### HDR Prostate Treatment

The Prostate Set is used for perineal implant of plastic needles for HDR prostate treatment. The set contains a 16G fixation template (reusable) and 200 mm 16G plastic needles with corresponding obturators. The template can be steam sterilized. The fixation template can be mounted on a stepper for ultrasound-guided treatment planning.

### Template Usability

The template is compatible with DK-Tech and CIVCO steppers, which are themselves compatible with a wide range of ultrasound probes. The grid of the template contains holes (16G) in 5 mm spacing and matches the ultrasound image grid, in order to facilitate insertion. Together with the SagiPlan® and HDRplus Prostate Module, it can be used for live ultrasound-guided treatment planning.

### Simultaneous Locking

After insertion, all needles can be locked simultaneously in the template with the thumbscrew, which prevents needle movement during the treatment. The set also contains ten reusable obturators for the plastic needles and five reusable stainless steel needles to puncture perineum before inserting the plastic needle.

### Features

- Suitable for perineal HDR prostate treatment
- Suitable for live ultrasound-guided treatment planning
- Reusable fixation template which can be mounted on DK-Tech and CIVCO steppers
- Needles can be locked simultaneously in the template to prevent needle movement
- Including steel needles for pre-insertion
- Optional MR safe template, which can be sutured to the patient

### Set Content SET0070

Quantity	Item	Part number
1	HDR Fixation Template, 16G, reusable <sup>6</sup>	LLZ12-04
60	Plastic Needle, sterile, D = 1.65 mm, L = 200 mm	LLA200-KB
2	Obturator for Plastic and Steel Needles, L = 200 mm, (5 pcs)	LLH01-200
1	Steel Needles, D = 1.7 mm, L = 200 mm, (5 pcs)	LLA200-S*
1	Sealing Caps, (10 pcs)	LAZ17-03
<i>*Alternative: HDR Fixation Template, MR-safe, 16G, reusable<sup>6</sup></i>		LLZ11-04

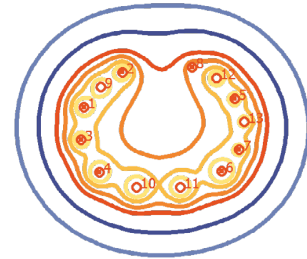
### Required Items

Quantity	Item	Part number
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01

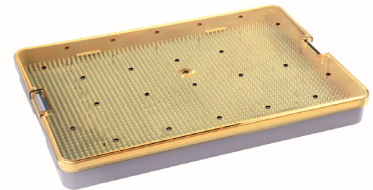
### Isodose



### Easy Click Transfer Tube



### Sterilization Box



### Channel Coding for Transfer Tubes

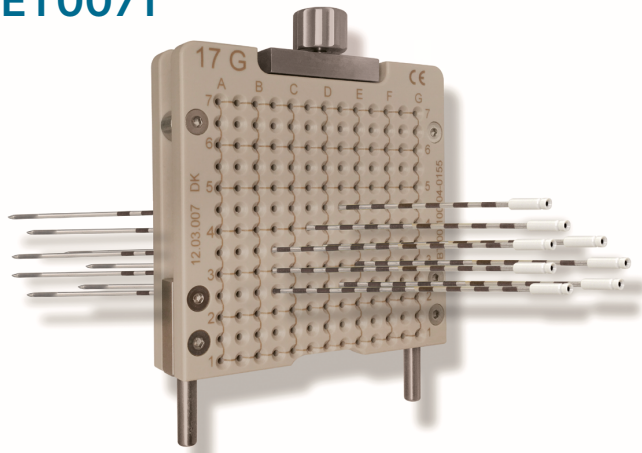


<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>6</sup> Manufactured by DK Technologies GmbH

# Prostate Set with Steel Needles

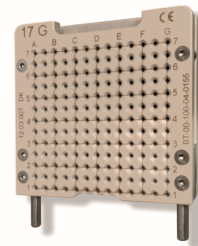
SET0071



Widely compatible template with well-proven steel needles for HDR treatment of prostate cancer.



MR Unsafe



## Prostate

### HDR Prostate Treatment

The Prostate Set is used for perineal implantation of stainless steel needles for HDR prostate treatment. The set contains a 17G fixation template (reusable) and 210 mm 17G disposable steel needles with corresponding obturators. The template can be steam sterilized. The fixation template can be mounted on a stepper for ultrasound-guided treatment planning.

### Template Usability

The template is compatible with DK-Tech and CIVCO steppers, which can be used with a wide range of ultrasound probes. The grid of the template contains holes in 5 mm spacing and matches the ultrasound image grid to make the insertion easier. Together with the SagiPlan® and HDRplus Prostate Module, it can be used for real-time ultrasound-guided treatment planning.

### Simultaneous Locking

After insertion, all needles can be locked simultaneously in the template with the thumbscrew, which prevents needle movement during the treatment.



### Features

- Suitable for perineal HDR prostate treatment
- Suitable for real-time ultrasound-guided treatment planning
- Reusable fixation template which can be mounted on DK-Tech and CIVCO steppers
- Needles can be locked simultaneously in the template to prevent needle movement
- First dwell position at short distance from needle tip prevents perforation of the bladder

### Set Content SET0071

Quantity	Item	Part number
1	HDR Fixation Template, 17G, reusable <sup>6</sup>	LLZ12-05
60	Disposable Steel Needle, D = 1.5 mm/ 17G, single use	LLA210-S
2	Obturator for Disposable Steel Needles, L = 210 mm, (5 pcs)	LLH01-210

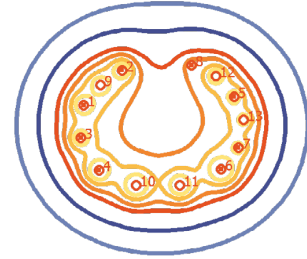
### Required Items

Quantity	Item	Part number
20	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01

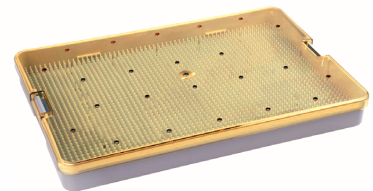
### Isodose



### Transfer Tube



### Sterilization Box



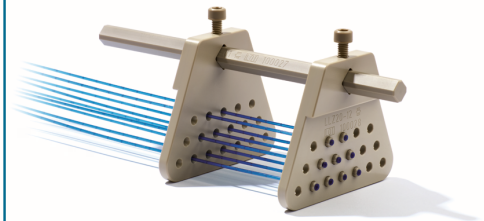
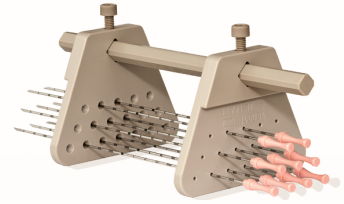
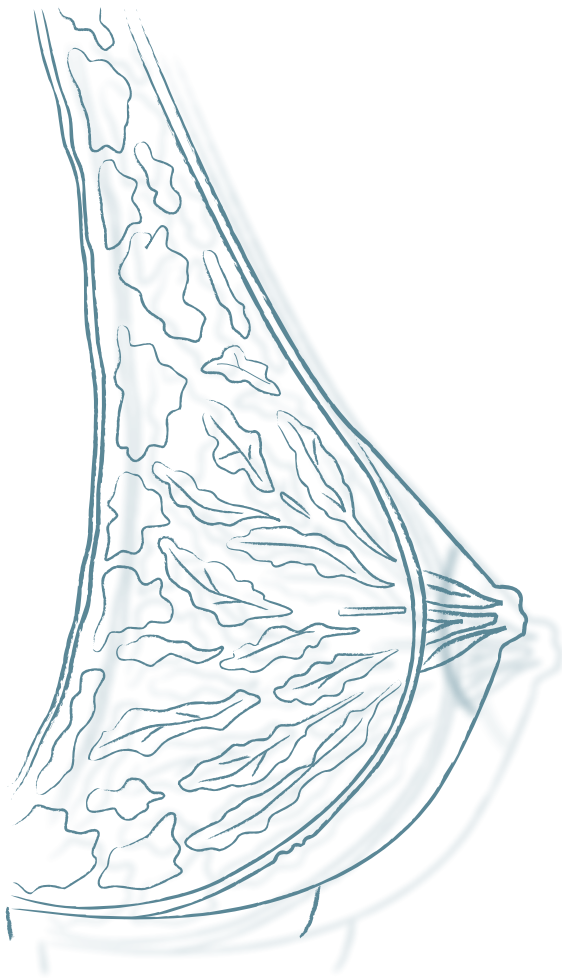
### Channel Coding for Transfer Tubes



<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

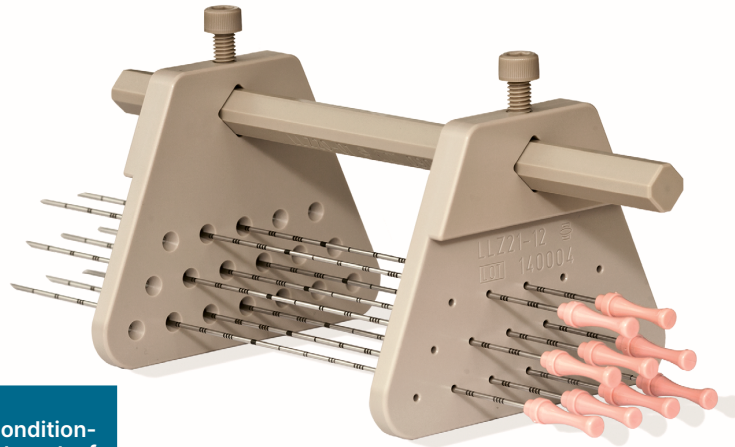
<sup>6</sup> Manufactured by DK Technologies GmbH

# Breast



# Breast Bridge

SET0080



CT compatible and MR conditional applicator for HDR treatment of breast cancer with flexible catheters or plastic needles.

## Breast

### Boost or Monotherapy

The Breast Bridge has been designed for HDR interstitial breast brachytherapy treatments, either for boost treatments or for monotherapy. The template design follows the "Paris System" for homogenous dose distribution.

### Adapting to Patient Anatomy

The set contains a guide pillar for the Breast Bridge and two pairs of breast templates in the two most commonly ordered sizes. To facilitate adaptation to the patient's anatomy, two additional sizes of templates are also available. The template's holes are positioned in equilateral triangles (Paris System) with side lengths of 12 mm, 16 mm (set content), 8 mm and 20 mm (optional). All sizes of templates have the same number of holes arranged in three rows with seven, six, and five holes. The separation between the templates is continuously variable up to 180 mm, in order to fit to all patient anatomies.

### Catheters or Needles

The templates can be used together with BEBIG Medical flexible catheters single leader or plastic needles (all 1.65 mm).

### Features

- CT/MR compatible
- Suitable for interstitial breast implants
- Breast templates available in four different sizes
- Compatible with 1.65 mm plastic needles and 16G flexible catheters single leader
- All parts can be steam sterilized

### Set Content SET0080

Quantity	Item	Part number
1	Breast Template, Triple Plane, 12 mm (Paris), without Buttons	LLZ21-12
1	Breast Template, Triple Plane, 16 mm (Paris), without Buttons	LLZ21-16
1	Guide Pillar for Breast Template	LLZ20-01

### Required Items

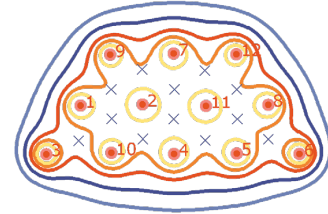
Quantity	Item	Part number
20	Flexible Catheter Single Leader, D = 1.65 mm, L = 300 mm*	LLA300-F
20	Hollow Needle for Flexible Catheter, 18G, L = 200 mm*	LLA200-H
1	Cutter for Flexible Catheters <sup>7</sup>	LAH06-01
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000
2	Fixation Balls, d = 1.6 mm, D = 7 mm, (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls <sup>***2</sup>	LAH05-02
*Alternative:	Plastic Needles, sterile, D = 1.65 mm, L = 200 mm	LLA200-KB
	Obturator for Plastic and Steel Needles, L = 200 mm, (5 pcs)	LLH01-200

\*\*\* Opening Forceps are needed to position the Fixation Balls

### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01
1	Breast Template, Triple Plane, 8 mm (Paris), without Buttons	LLZ21-08
1	Breast Template, Triple Plane, 20 mm (Paris), without Buttons	LLZ21-20
1	Set of X-Ray Markers, L = 325 mm, Code = 01-02	SET0030
1	Set of X-Ray Markers, L = 325 mm, Code = 01-20	SET0034
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01

### Isodose



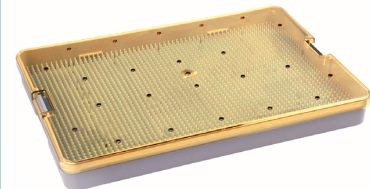
### Easy Click Transfer Tube



### Opening Forceps for Fixation Balls



### Sterilization Box



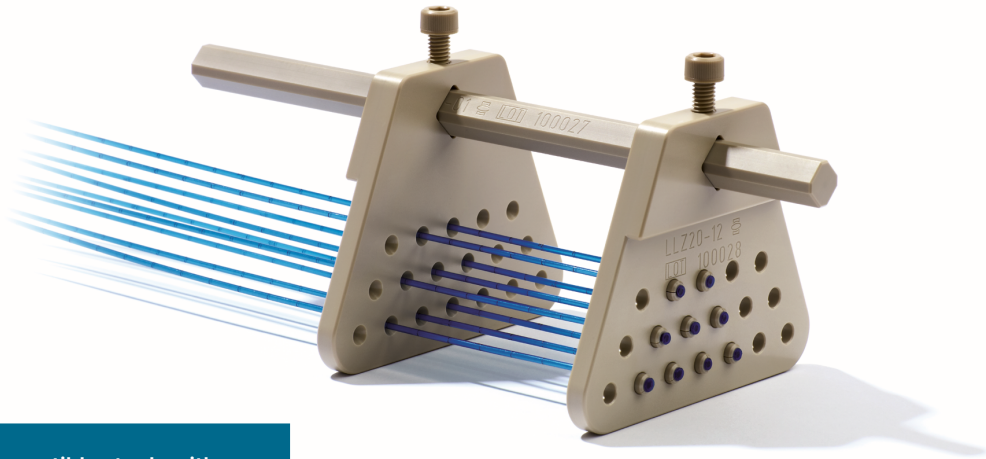
<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>2</sup> Manufactured by Otto Leibinger GmbH

<sup>7</sup> Manufactured by Pressmaster GmbH

# Breast Bridge with Fixation Buttons

SET0081



CT/MR compatible tool with enhanced usability for treatment of breast cancer with plastic needles or flexible catheters.

## Breast

### Removable Fixation Buttons

Each pair of breast templates includes a template with fixation buttons. The buttons allow removal of the template, once the flexible catheters single leader have been implanted. All templates can be used together with BEBIG Medical flexible catheters single leader or plastic needles (all 16G).

### Adapting to Patient Anatomy

The set contains a guide pillar for the Breast Bridge and two pairs of breast templates in the two most commonly ordered sizes. To facilitate adaptation to the patient's anatomy, two additional sizes of templates are also available. The template's holes are positioned in equilateral triangles (Paris System) with side lengths of 12 mm, 16 mm (set content), 8 mm and 20 mm (optional). All sizes of templates have the same number of holes arranged in three rows with seven, six, and five holes. The separation between the templates is continuously variable between 0 and 180 mm, in order to fit to all patient anatomies.

### Boost or Monotherapy

The Breast Bridge with Fixation Buttons has been designed for HDR interstitial breast brachytherapy treatments, either for boost treatments or for monotherapy.

### Features

- CT compatible and MR conditional
- Suitable for interstitial breast implants
- Thanks to the special design, all flexible implants can be inserted before the template is removed
- Build-in fixation buttons
- Breast templates available in four different sizes
- Compatible with 16G plastic needles and 16G flexible catheters single leader
- All parts can be steam sterilized

### Set Content SET0081

Quantity	Item	Part number
1	Breast Template, Triple Plane, 12 mm (Paris), with Fixation Buttons	LLZ20-12
1	Breast Template, Triple Plane, 16 mm (Paris), with Fixation Buttons	LLZ20-16
1	Guide Pillar for Breast Template	LLZ20-01

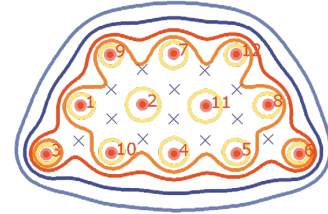
### Required Items

Quantity	Item	Part number
20	Flexible Catheter Single Leader, D = 1.65 mm, L = 300 mm*	LLA300-F
20	Hollow Needle for Flexible Catheter, 18G, L = 200 mm*	LLA200-H
1	Cutter for Flexible Catheters <sup>7</sup>	LAH06-01
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000
2	Fixation Balls, d = 1.6 mm, D = 7 mm, (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls <sup>***2</sup>	LAH05-02
*Alternative:	Plastic Needle, sterile, D = 1.65 mm, L = 200 mm	LLA200-KB
	Obturator for Plastic and Steel Needles, L = 200 mm, (5 pcs)	LLH01-200
*** Opening Forceps are needed to position the fixation balls		

### Optional Items

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01
1	Breast Template, Triple Plane, 8 mm (Paris), with Fixation Buttons	LLZ20-08
1	Breast Template, Triple Plane, 20 mm (Paris), with Fixation Buttons	LLZ20-20
1	Set of X-Ray Markers, L = 325 mm, Code = 01-02	SET0030
1	Set of X-Ray Markers, L = 325 mm, Code = 01-20	SET0034
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01

### Isodose



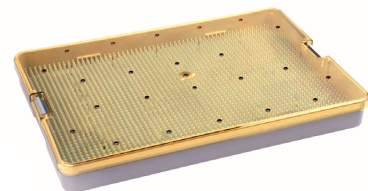
### Easy Click Transfer Tube



### Opening Forceps for Fixation Balls



### Sterilization Box

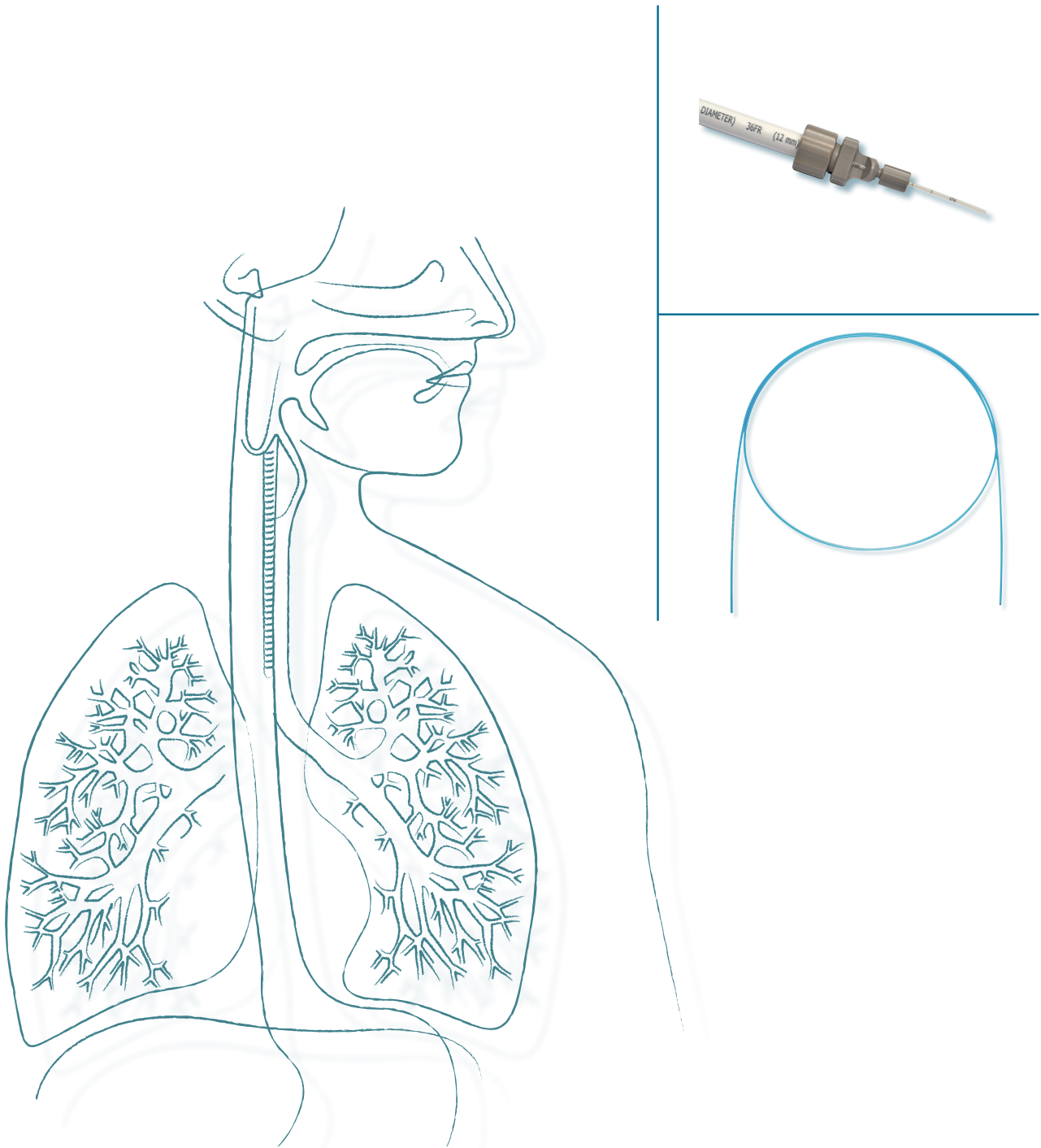


<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>2</sup> Manufactured by Otto Leibinger GmbH

<sup>7</sup> Manufactured by Pressmaster GmbH

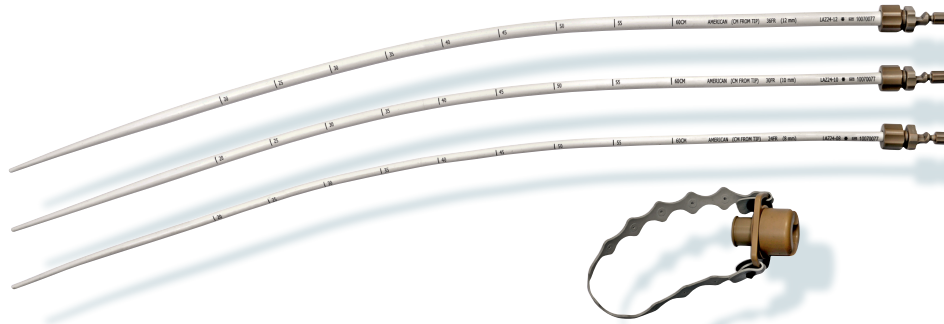
# Esophagus & Bronchus



# Esophagus Applicator Set

SET0119

MR  
MR Safe



CT compatible applicator for treatment of esophageal cancer providing appropriate radial distance.

## Esophagus

### Enhanced Usability

The Esophagus Applicator Set has been designed for HDR brachytherapy treatment of the esophagus. The set contains of 6 bougies in three different diameters, reusable applicator fixations for the universal applicator inside the bougie, a guidewire for Seldinger technique and a reusable mouthpiece.

### Precise Dose Distribution

The different diameters of the bougie ensure an appropriate radial distance by keeping the esophagus mucosa away from areas of high dose rate. With a 2 mm universal applicator inside the bougie, the source can be placed in a centered radial position relative to the treated tissue. The universal applicator is fixed to the bougie with special adapters which prevent the longitudinal movement of the universal applicator inside the bougie.

### Optional Application Techniques

The bougie can be inserted either under fluoroscopy or by using the guidewires for Seldinger technique under endoscopic examination. The reusable mouthpiece is compatible with all different bougies of the set. It immobilizes any applicator diameter, from 8 mm to 12 mm. To define longitudinal treatment position and length, optional radiopaque X-ray markers can be used for identification on fluoroscopy or X-ray images.



### Features

- Suitable for esophagus brachytherapy treatments
- Large variety of diameters ensures appropriate distance from the source to the treated tissue
- Contains reusable mouthpiece and fixation adapters
- Includes guidewires for Seldinger technique
- Single use applicator that comes sterile for instant use

### Set Content SET0119

Quantity	Item	Part number
2	Bougie for Esophagus, single use, D = 8 mm (24 Fr)	LAZ24-08
2	Bougie for Esophagus, single use, D = 10 mm (30 Fr)	LAZ24-10
2	Bougie for Esophagus, single use, D = 12 mm (36 Fr)	LAZ24-12
1	Mouthpiece for Bougie	LAZ01-01
1	Applicator Fixation for Bougie, D = 8 mm	LAZ01-08
1	Applicator Fixation for Bougie, D = 10 mm	LAZ01-10
1	Applicator Fixation for Bougie, D = 12 mm	LAZ01-12
1	Guidewire for Bougie, marked, D = 0.89 mm****	LAZ01-05

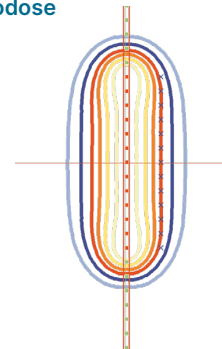
\*\*\*\* Not MR safe – not to be used during MR scan

### Required Items

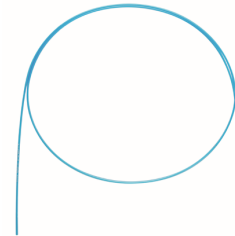
Quantity	Item	Part number
1	Universal Applicator, marked, D = 2 mm, L = 1200 mm (sterile)	LLA1200-20
1	Connector for Universal Applicator, D = 2.0 mm (EasyClick 6F)****	LLS50-6F
1	Set of X-Ray Markers with Ruler, L = 1230 mm	SET0033
1	Sterile Gel (10 ml) <sup>8</sup>	LLZ09

\*\*\*\* Not MR safe – not to be used during MR scan

### Isodose



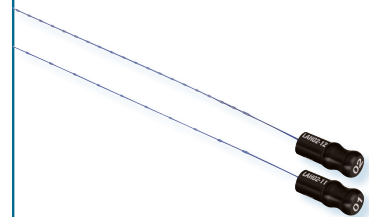
### Universal Applicator



### Connector for Universal Applicator



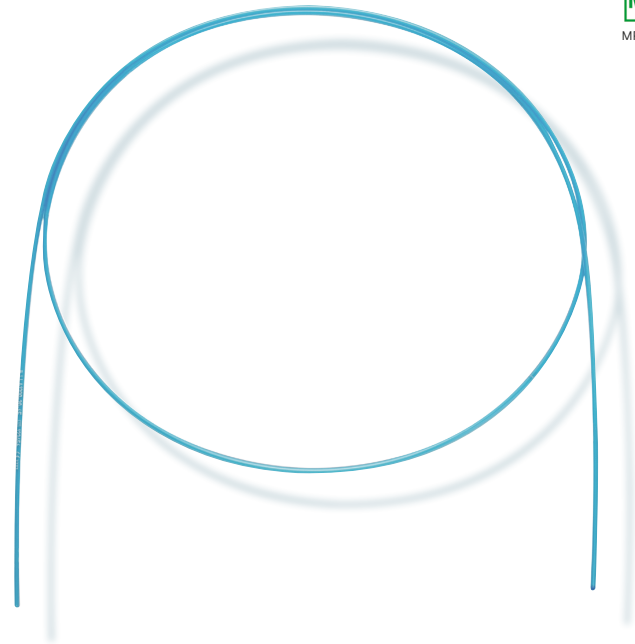
### Set of X-Ray Markers with Ruler



<sup>8</sup> Manufactured by Farco-Pharma GmbH

# Bronchus Intraluminal Set

SET0020



Basic tool for intraluminal brachytherapy with safe and easy connection to the afterloader.

## Esophagus

### Endobronchial Brachytherapy

The Bronchus Intraluminal Set has been designed for HDR intraluminal brachytherapy treatments, especially for endobronchial brachytherapy.

### Easy Insertion

The set contains universal applicators with a diameter of 2 mm and a length of 1200 mm, connectors for safe and easy connection to the afterloader, and X-ray markers for identification of the applicators on X-ray images. The small diameter allows easy insertion of the applicator into a smaller lumen.

### Sterile Delivery

The applicators are provided sterile, allowing immediate clinical use. The applicators are for single use only.

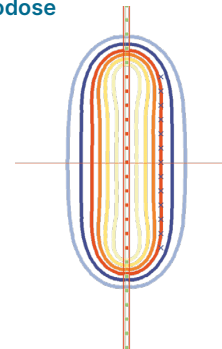
### Features

- Small diameter allows easy insertion into a small lumen
- Universal Applicators are delivered sterile
- X-ray markers for easy identification during treatment planning

### Set Content SET0020

Quantity	Item	Part number
2	Connector for Universal Applicator, D = 2.0 mm (EasyClick 6F)*,****	LLS50-6F
15	Universal Applicator, marked, D = 2 mm, L = 1200 mm (sterile)*	LLA1200-20
1	X-Ray Marker with Ruler 10:10, D = 1.2 mm, L = 1230 mm	LLH02-21
1	X-Ray Marker with Ruler 5:5, D = 1.2 mm, L = 1230 mm	LLH02-22
*Alternative:	Universal Applicator, D = 1.7mm, L 1200 mm (sterile) <sup>3</sup>	LLA1200-17
	Connector for Universal Applicator, D = 1.7 mm (EasyClick 5F)	LLS50-5F
**** Not MR safe nor conditional – not to be used during MR scan		

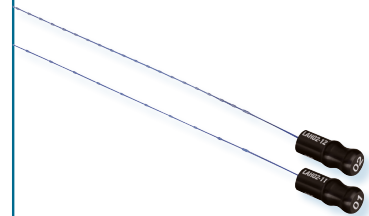
### Isodose



### Connector for Universal Applicator

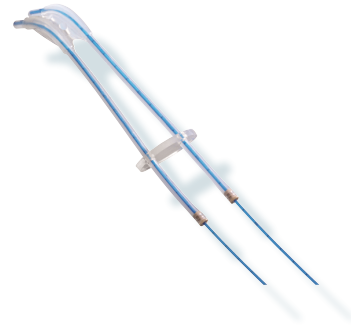
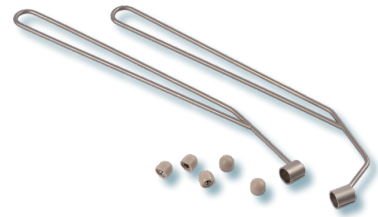
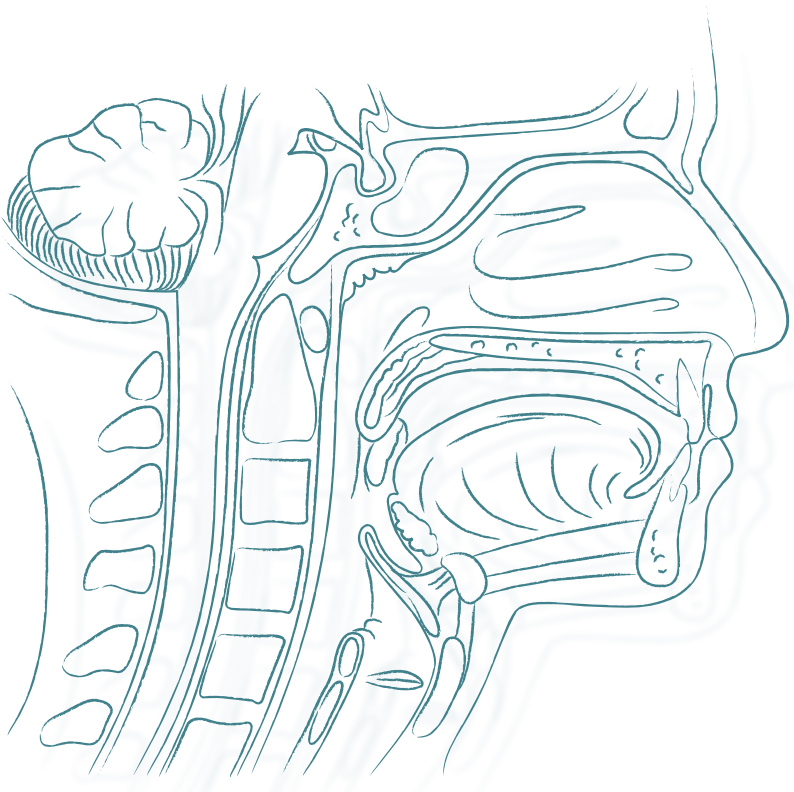


### X-Ray Marker with Ruler



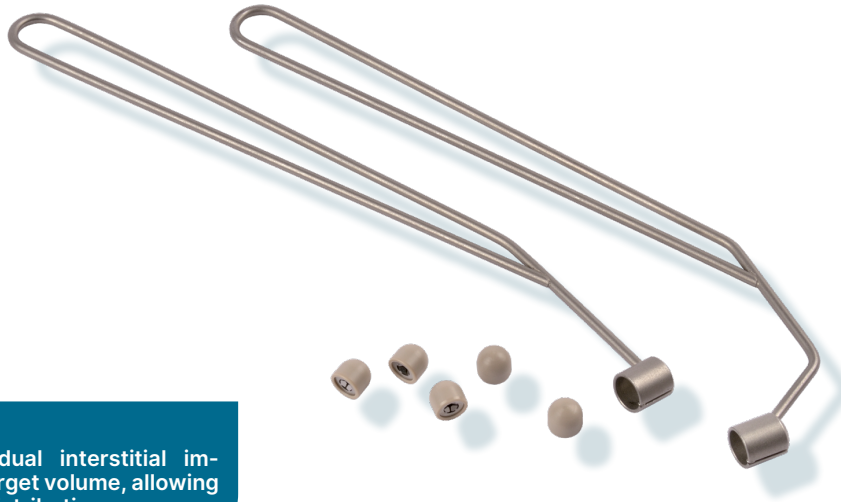
<sup>3</sup> Manufactured by BEST Medical International, Inc.

# Head & Neck



# Gynecological & Rectal

SET0006



Set for individual interstitial implants of the target volume, allowing precise dose distribution.

## Tongue, Mouth

### Easy Insertion

The Tongue and Mouth Applicator Set is used for the brachytherapy of the tongue and floor of the mouth. The 16G plastic needles are designed to be easily inserted with an obturator ensuring an accurate implant of the target volume. The fixation caps are tolerable for the patient during treatment by covering the needle tips.

### Effective Fixation

The set includes two anatomically shaped holders for fixation caps. The holders are designed to attach the caps in the glossal or subglossal area. Fixation balls ensure that the needles remain in place.

### Precise Dose Distribution

By providing the tools to easily implant this difficult area, it is possible to obtain a precise dose distribution which completely encompasses the target volume. The Tongue and Mouth Applicator Set streamlines interstitial brachytherapy, and is tolerable for the patient during treatment.

### Features

- Fixation caps are tolerable for the patient during treatment
- Individual needle implants allow precise dose distribution
- Fixation cap holders easily attach the caps to the needles while maintaining implant geometry
- Needles and obturators are designed for added rigidity and easy insertion
- Tongue and Mouth Applicator Set streamlines the implant procedure

### Set Content SET0006

Quantity	Item	Part number
20	Fixation Cap for Plastic Needles	LLZ02-01
2	Fixation Balls, d = 1.6 mm, D = 7 mm, (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls <sup>2</sup>	LAH05-02
1	Holder for Fixation Cap, glossal	LAH04-01
1	Holder for Fixation Cap, subglossal	LAH04-02
20	Plastic Needle, sterile, D = 1.65 mm, L = 150 mm	LLA150-KB
1	Obturators for Plastic Needles, L = 150 mm, (5 pcs)	LLH01-150

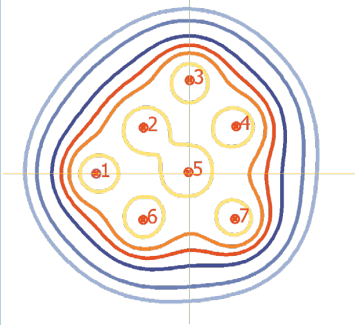
### Required Items

Quantity	Item	Part number
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

### Optional Items

Quantity	Item	Part number
1	Set of X-Ray Markers, L = 325 mm, Code = 01-02	SET0030
1	Set of X-Ray Markers, L = 325 mm, Code = 01-20	SET0034
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01

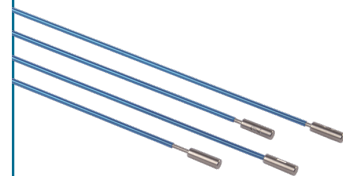
### Isodose



### Opening Forceps for Fixation Balls



### Plastic Needles



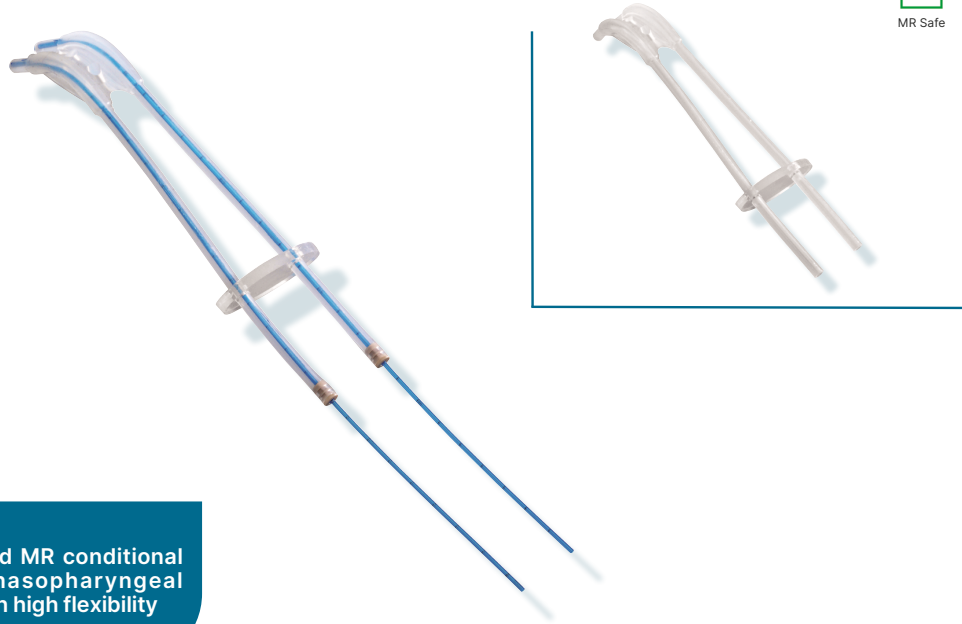
### Easy Click Transfer Tube



<sup>2</sup> Manufactured by Otto Leibinger GmbH

# Nasopharynx Applicator Set

SET0147



CT compatible and MR conditional applicator for nasopharyngeal brachytherapy with high flexibility

## Nasopharynx

### Treatment of the Nasopharynx

The Nasopharynx Applicator (Rotterdam Type) is designed for intracavitary HDR brachytherapy treatment of nasopharyngeal tumors. It is made of flexible silicone that adapts to the individual nasopharyngeal cavity.

### Safe and Easy Handling

The Nasopharynx Applicator is delivered sterile and for single use only. A bridge connecting the silicone tubes of the applicator securely fixes the position in the nasopharynx.

### Precise Dose Distribution

While the flexible catheters type N (LLA300-N) are removed, the applicator remains in place for multiple fractions and keeps its fixed position, thus allowing precise and reproducible dose distribution for every single fraction.

### Features

- CT compatible and MR conditional
- Flexible mould applicator for intracavitary HDR brachytherapy treatment of nasopharyngeal tumors
- Bridge on the silicone tubes securely fixes the applicator position in the nasopharynx
- Applicator is delivered sterile
- For single use only

### Set Content SET0147

Quantity	Item	Part number
1	Nasopharynx Applicator (Rotterdam Type)	LAZ08
1	Sterile Gel (10 ml) <sup>8</sup>	LLZ09
6	Flexible Catheters, Type N, D = 1.65 mm, L = 300 mm, (2 pcs)	LLA300-N
1	Cutter for Flexible Catheters <sup>7</sup>	LAH06-01

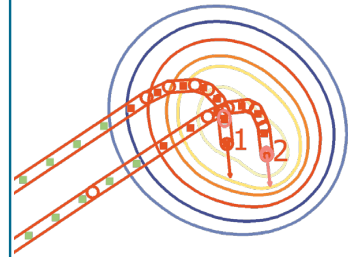
### Required Items

Quantity	Item	Part number
2	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000
1	Set of X-Ray Markers, L = 325 mm, Code = 01-02	SET0030

### Optional Items

Quantity	Item	Part number
1	Channel Coding for Needles and Catheters (Channel 1)	LLZ03-01
1	Channel Coding for Needles and Catheters (Channel 2)	LLZ03-02
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01

### Isodose



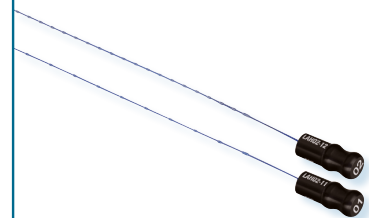
### Cutter for Flexible Catheters



### Easy Click Transfer Tube



### Set of X-Ray Markers

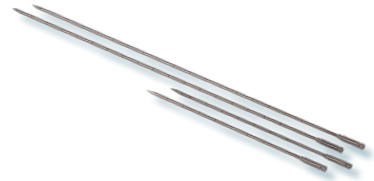
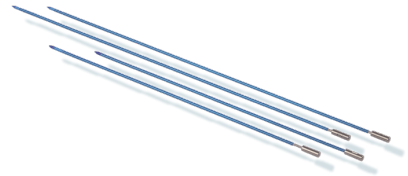
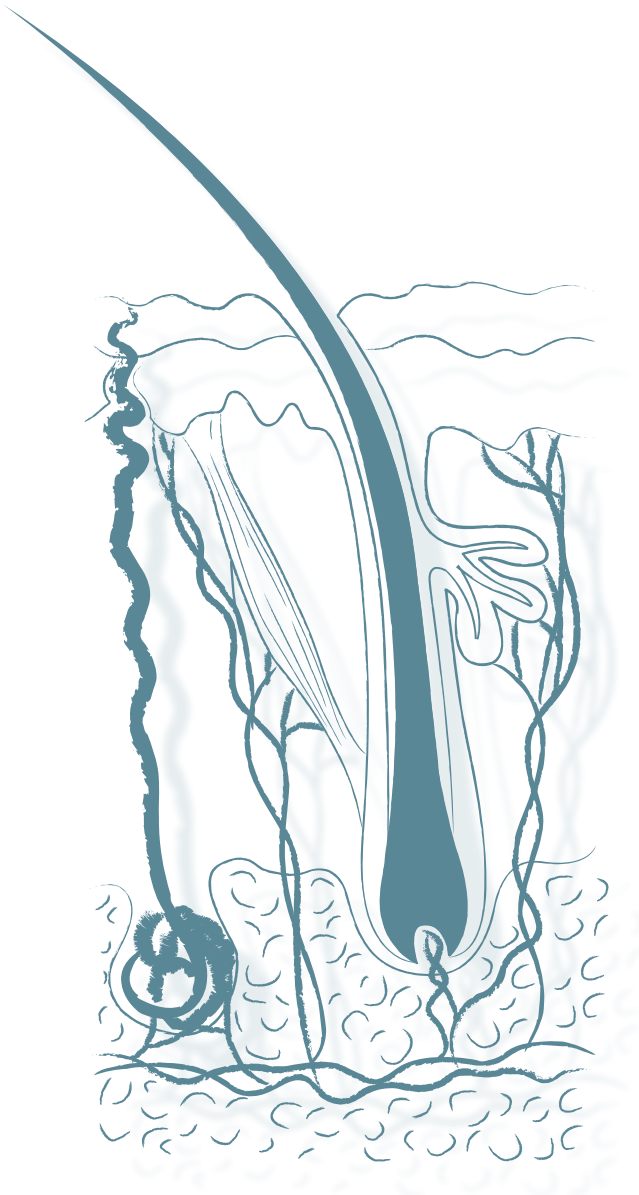


<sup>7</sup> Manufactured by Pressmaster GmbH

<sup>8</sup> Manufactured by Farco-Pharma GmbH

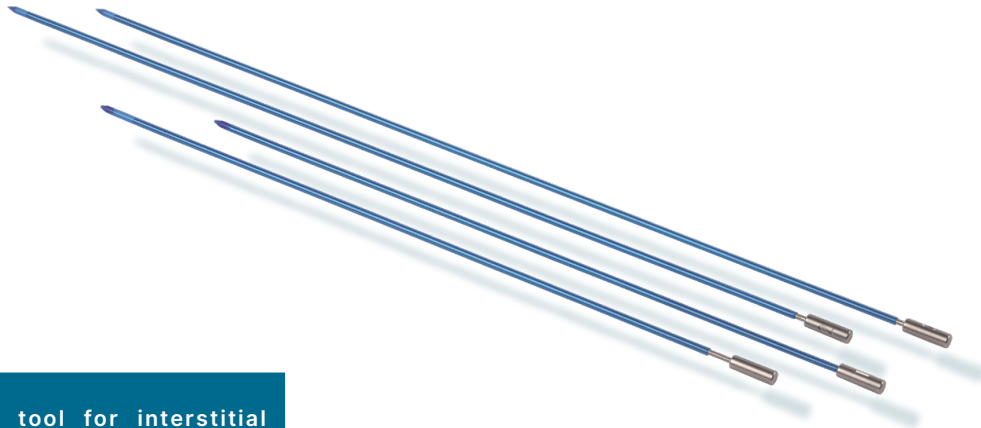


# Interstitial



# Plastic Needle Set

SET0012



Essential tool for interstitial brachytherapy in various body sites. CT compatible and MR conditional and delivered sterile.

## Head, Neck, Breast, Prostate

### Multiple Treatment Options

The Plastic Needle Set has been designed for various HDR interstitial brachytherapy treatments, including head and neck, breast and prostate. The set contains 20 plastic needles, 16G, with an outside diameter of 1.65 mm and a length of 200 mm. They can be used with or without the corresponding templates.

### Precise Dose Distribut

Before inserting a plastic needle, a reusable steel needle is used to create the implant channel. Reusable obturators serve to maintain needle stability during implant and prevent kinking and damaging the needles. Plastic needles are provided sterile for prompt clinical use and are intended for single use only. Waste avoidance is achieved by providing the sterile needles in packages of one and five pieces per package. To meet clinical needs, the plastic needles are available in lengths of 150 mm and 300 mm with corresponding obturators.

### Secure Fixation and Better Visibility

Optionally, fixation balls are available to secure the needles to the patient. X-ray markers can be utilized for better visualization on images.

### Features

- CT/MR compatible
- Suitable for interstitial treatments
- Are delivered sterile
- Available in lengths of 150 mm, 200 mm and 300 mm
- Obturators with similar lengths can be steam sterilized
- To avoid unnecessary opening of sterile packaging 75% (15) of the needles in SET0012 are delivered in packages of five and 25% (5) in packages of 1

### Set Content SET0012

Quantity	Item	Part number
20	Plastic Needle, sterile, D = 1.65 mm, L = 200 mm*	LLA200-KB
1	Obturators for Plastic and Steel Needles, L = 200 mm, (5 pcs)*	LLH01-200
1	Steel Needles, D = 1.7 mm, L = 200 mm, (5 pcs)	LLA200-S
1	Sealing Caps, (10 pcs)	LAZ17-03
<i>*Alternative 1: Plastic Needle, sterile, D = 1.65 mm, L = 150 mm</i>		
	<i>Obturators for Plastic Needles, L = 150 mm, (5 pcs)</i>	<i>LLH01-150</i>
<i>*Alternative 2: Plastic Needle, sterile, D = 1.65 mm, L = 300 mm</i>		
	<i>Obturators for Plastic Needles, L = 300 mm, (5 pcs)</i>	<i>LLH01-300</i>

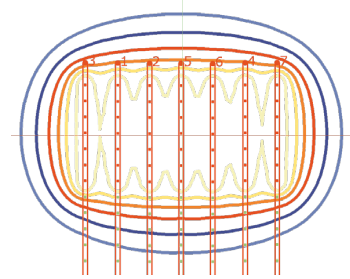
### Required Items

Quantity	Item	Part number
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

### Optional Items

Quantity	Item	Part number
1	Set of X-Ray Markers, L = 325 mm, Code = 01-02	SET0030
1	Set of X-Ray Markers, L = 325 mm, Code = 01-20	SET0034
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01
1	Fixation Balls, d = 1.6 mm, D = 7 mm, (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls <sup>2</sup>	LAH05-02

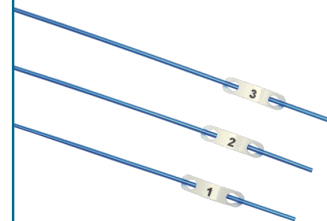
### Isodose



### Easy Click Transfer Tube



### Channel Coding for Needles and Catheters



### Channel Coding for Transfer Tubes



<sup>2</sup> Manufactured by Otto Leibinger GmbH

# Disposable Steel Needle Set

SET0052



Essential tool for interstitial brachytherapy applications

Prostate, GYN, Rectum, Head & Neck

## Wide Range of Applications

The Disposable Steel Needle Set is intended for various interstitial brachytherapy applications. The needles are made of stainless steel, with a length of 210 mm and a diameter of 17G for use with 17G templates.

## Essential for Prostate Treatment

The disposable steel needles are suitable for the prostate treatment. For the first dwell position of the source the distance between the tip of the needle and the center of the radioactive core is only 6.75 mm. This may improve the dose coverage of the prostate. Optical marking on the needles help to estimate the inserted length.

## Easy Insertion

The disposable steel needles can be inserted easily into the tissue by using the obturator. They are provided sterile for immediate clinical use and are intended for single use only. To avoid waste of sterile needles, packages containing both one piece and five pieces per package are provided.

### Features

- Is delivered sterile, for single use only
- Minimal distance between tip of the needle and center of the radioactive core only 6.75 mm
- 210 mm length
- Made of stainless steel
- For all 17G templates

### Set content SET0052

Quantity	Item	Part number
20	Disposable Steel Needle, D = 1.5 mm/17G, single use	LLA210-S
1	Obturator for Disposable Steel Needles, L = 210 mm, (5 pcs)	LLH01-210

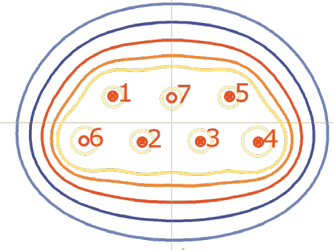
### Required Items

Quantity	Item	Part number
20	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

### Optional Items

Quantity	Item	Part number
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01

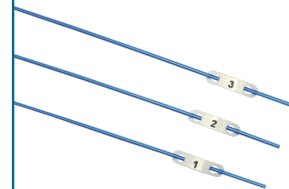
### Isodose



### Transfer Tube



### Channel Coding for Needles and Catheters

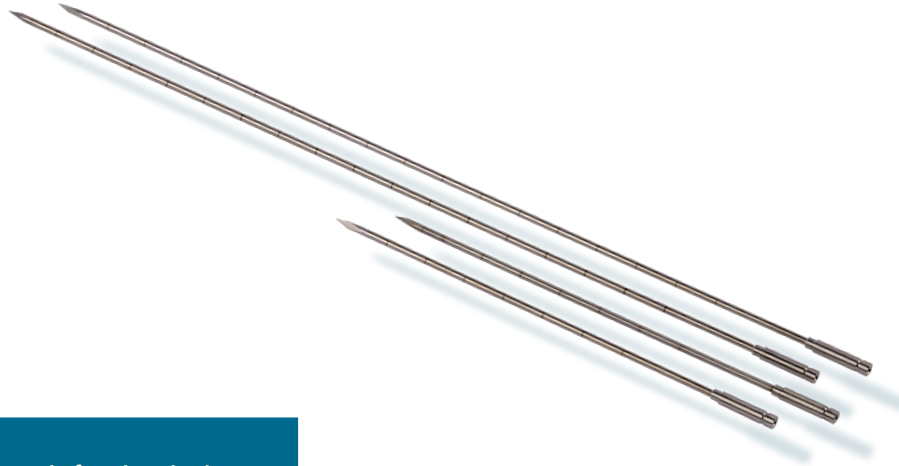


### Channel Coding for Transfer Tubes



# Interstitial Needle Set

SET0003



Essential tool for brachytherapy treatments in various body sites with specially designed needle tip.

## Head, Neck

### Wide Range of Applications

The Interstitial Needle Set is designed to cover a wide range of applications, which makes it an essential tool for interstitial brachytherapy. The obturators included in the set allow to insert the stainless steel needles both with and without a template.

### Special Needle Design

The steel needles are designed with a trocar shaped tip in order to easily glide through tissue. The tip is extremely rigid and will not become dull after repeated use.

### For Multiple Use

The steel needles are reusable and can be steam sterilized.

### Features

- Suitable for a wide range of interstitial brachytherapy treatments
- Stainless steel needles meet clinical requirements
- Set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization

### Set Content SET0003

Quantity	Item	Part number
4	Steel Needles, D = 1.7 mm, L = 100 mm, (5 pcs)	LLA100-S
4	Steel Needles, D = 1.7 mm, L = 200 mm, (5 pcs)	LLA200-S
1	Obturator for Steel Needles, L = 100 mm, (5 pcs)	LLH01-100
1	Obturator for Plastic and Steel Needles, L = 200 mm, (5 pcs)	LLH01-200
6	Sealing Caps, (10 pcs)	LAZ17-03

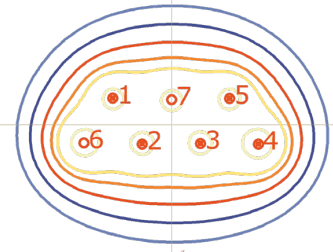
### Required Items

Quantity	Item	Part number
20	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

### Optional Items

Quantity	Item	Part number
1	Set of X-Ray Markers, L = 325 mm, Code = 01-02	SET0030
1	Set of X-Ray Markers, L = 325 mm, Code = 01-20	SET0034
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01
2	Fixation Balls, d = 1.62 mm, D = 7 mm, (10 pcs)	LLZ06-03
1	Opening Forceps for Fixation Balls <sup>2</sup>	LAH05-02
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01

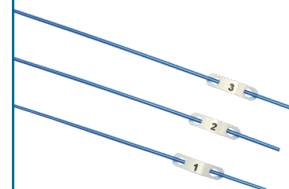
### Isodose



### Transfer Tube



### Channel Coding for Needles and Catheters



### Channel Coding for Transfer Tubes

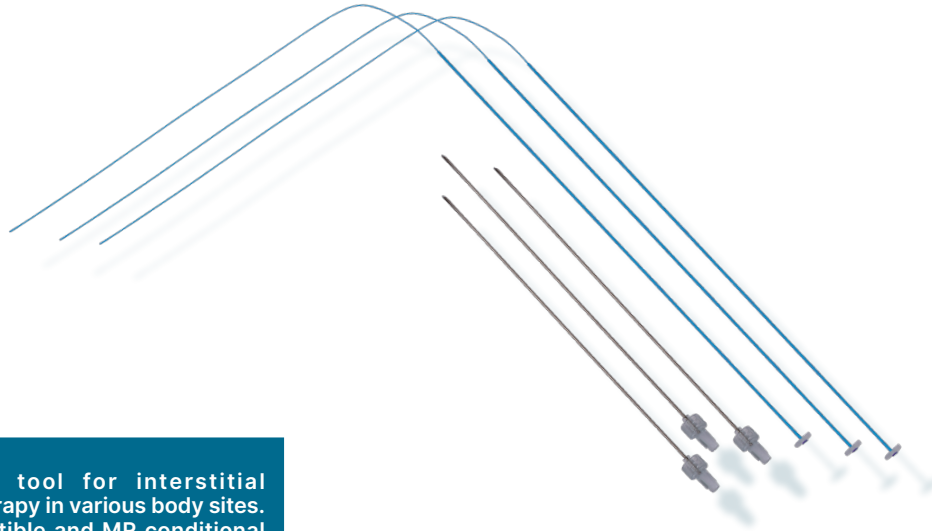


<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>2</sup> Manufactured by Otto Leibinger GmbH

# Flexible Catheters Single Leader

SET0051



Essential tool for interstitial brachytherapy in various body sites. CT compatible and MR conditional and delivered sterile.

Breast, Sarcoma, Head, Neck

## Multiple Treatment Options

The Flexible Catheters Single Leader Set has been designed for HDR interstitial brachytherapy, especially for breast, sarcoma, head and neck treatments. The set contains 20 Flexible Catheters Single Leader with an outside diameter of 1.65 mm and a length of 300 mm, 20 stainless steel hollow needles for an easy implantation of the flexible catheters and a cutter for the flexible catheters.

## Meeting Clinical Needs

The flexible catheters are also available in lengths of 200 mm. All of them are Flexible Catheters Single Leader with stop buttons which prevent the flexible catheter from moving into the tissue after insertion. No extra fixation buttons are necessary on this side. If the fixation buttons are not needed, they can easily be removed. Integrated core filaments prevent kinking and damage of the flexible catheters during insertion. This core can be easily removed before the treatment, and should be reinserted between fractions to avoid kinking of the flexible catheters. The flexible catheters and hollow needles are provided sterile allowing immediate clinical use and are single use only.

## Secure Fixation and Better Visibility

Optional fixation balls are available to secure the flexible catheters. The reusable fixation balls can be easily attached to the flexible catheters by using the respective opening forceps. For better visibility, X-ray markers can be ordered.



### Features

- CT/MR compatible
- Are delivered with stop buttons
- Integrated core filament for increased stability
- Available in lengths of 200 mm and 300 mm
- Flexible catheters single leader and hollow needles are delivered sterile

### Set Content SET0051

Quantity	Item	Part number
20	Flexible Catheter Single Leader, D = 1.65 mm, L = 300 mm	LLA300-F
20	Hollow Needle for Flexible Catheter, 18G, L = 200 mm	LLA200-H
1	Cutter for Flexible Catheters <sup>7</sup>	LAH06-01

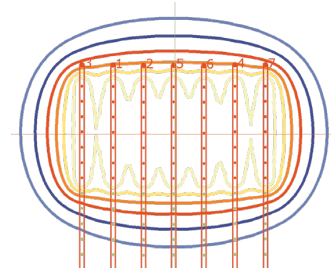
### Required Items

Quantity	Item	Part number
20	Easy Click Transfer Tube, L = 1000 mm	LAG1000

### Optional Items

Quantity	Item	Part number
2	Fixation Balls, d = 1.6 mm, D = 7 mm, (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls <sup>2</sup>	LAH05-02
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01
1	Set of X-Ray Markers, L = 325 mm, Code = 01-02	SET0030
1	Set of X-Ray Markers, L = 325 mm, Code = 01-20	SET0034

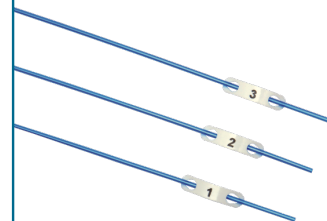
### Isodose



### Easy Click Transfer Tube



### Channel Coding for Needles and Catheters



### Channel Coding for Transfer Tubes



<sup>2</sup> Manufactured by Otto Leibinger GmbH

<sup>7</sup> Manufactured by Pressmaster GmbH

# Flexible Catheters Blind End

LLA300-FB, LLA500-FB



Essential tool for interstitial brachytherapy in various body sites. CT compatible and MR conditional and delivered sterile.

Sarcoma, Head, Neck, Breast

## Multiple Treatment Options

The Flexible Catheters Blind End have been designed for HDR interstitial brachytherapy treatments, especially for intraoperative applications for subsequent postoperative fractionated treatment of tissue tumors.

## Variable Length

The Flexible Catheters Blind End are available in lengths of 300 mm and 500 mm and are suitable for computer tomography and magnetic resonance imaging.

## Easy Insertion

The Flexible Catheters Blind End are inserted during surgery and guided through the tissue via hollow needles that guarantee an easy insertion.

### Features

- CT compatible and MR conditional
- Integrated core filament for increased stability
- Available in lengths of 300 mm and 500 mm
- Flexible Catheters Blind End and hollow needles are delivered sterile

### LLA300-FB

Quantity	Item	Part number
20	Flexible Catheter Blind End, D = 1.65 mm, L = 300 mm	LLA300-FB

### LLA500-FB

Quantity	Item	Part number
20	Flexible Catheter Blind End, D=1.65mm, L = 500 mm	LLA500-FB

### Required Items LLA300-FB

Quantity	Item	Part number
5	Hollow Needle for Flexible Catheter, 18G, L = 200 mm	LLA200-H
1	Cutter for Flexible Catheters <sup>7</sup>	LAH06-01
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

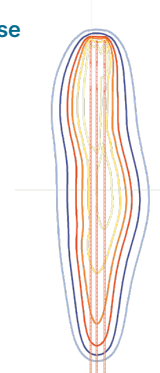
### Required Items LLA500-FB

Quantity	Item	Part number
5	Hollow Needle for Flexible Catheter, 18G, L = 200 mm	LLA200-H
1	Cutter for Flexible Catheters <sup>7</sup>	LAH06-01
20	Easy Click Transfer Tube, D = 3 mm, L = 800 mm	LAG800

### Optional Items

Quantity	Item	Part number
1	Channel Coding for Needles and Catheters (Set for Channel 1-20)	LLZ03-21
1	Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01
2	Fixation Balls, d = 1.6 mm, D = 7 mm, (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls <sup>2</sup>	LAH05-02

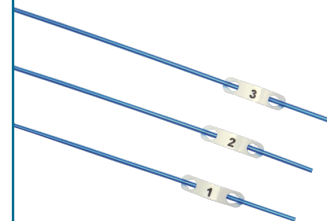
### Isodose



### Easy Click Transfer Tube



### Channel Coding for Needles and Catheters



### Channel Coding for Transfer Tubes

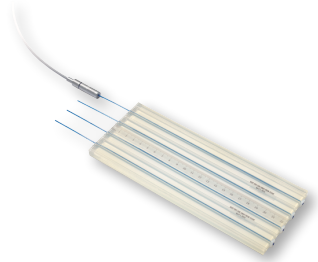
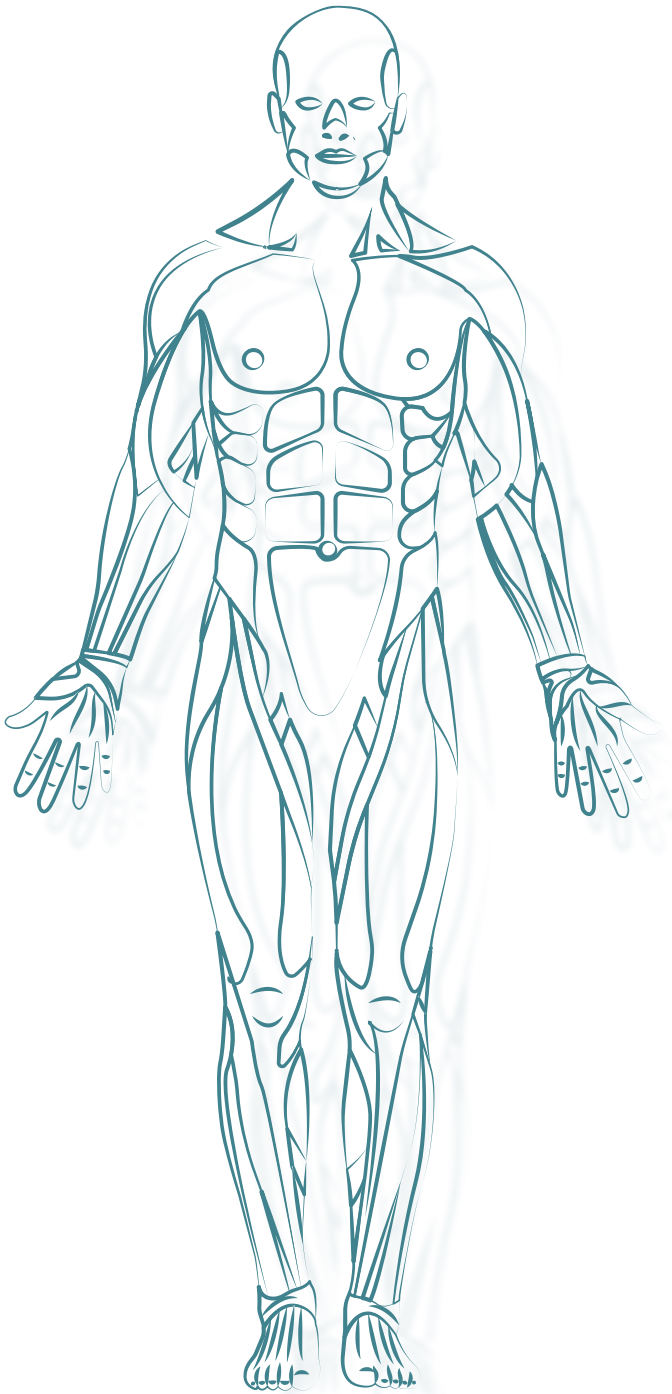


<sup>2</sup> Manufactured by Otto Leibinger GmbH

<sup>7</sup> Manufactured by Pressmaster GmbH

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# Intraoperative (IORT) or Skin

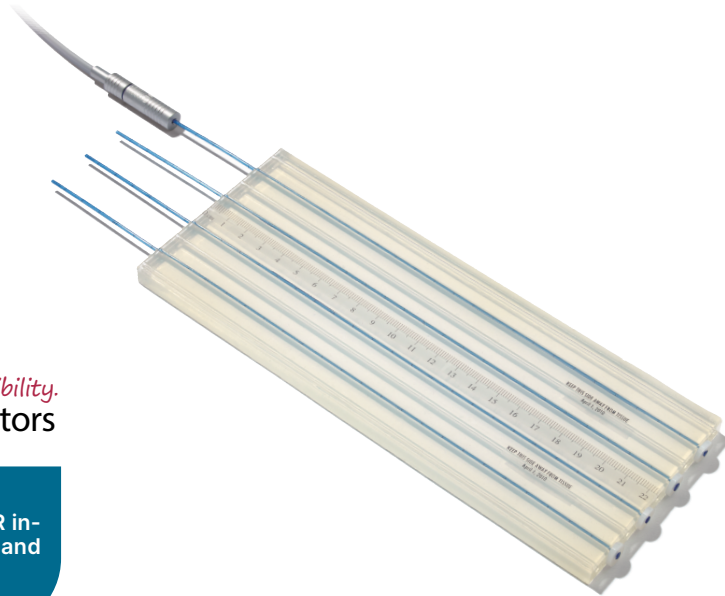


# H.A.M. Applicators (Flaps)

LFO01-03 - LFO01-24



Customized applicators for HDR intraoperative radiation therapy and treatment of superficial tumors.



Skin, Mucosa, Intraoperative

## Various Treatment Sites

The Harrison-Anderson-Mick Applicators are used for the treatment of skin surface, mucosa and tumor bed/organ surface (intraoperative).

## Flexibility

The H.A.M. Applicator consists of a flexible pad of silicone rubber that is 8 mm thick. An array of catheters are embedded parallel to each other spaced 10 mm apart while a consistent source-to-tissue distance of 5 mm is maintained. Because of its flexibility, the H.A.M. Applicator easily conforms to the shape of surfaces to which it is applied.

## Customized Solution

H.A.M. Applicators are available in different sizes. Multiple numbers of channels from 3 up to 24 provide the desired treatment area coverage. The H.A.M. Applicators are for single use only.

### Features

- Various treatment options
- Guarantee uniform dose distribution
- Customized sizes
- Each H.A.M. Applicator can be ordered also separately Single use

### LFO01-03 - LFO01-24

Quantity	Item	Part number
1	H.A.M. Applicator, 3-channel, 6 Fr, without embedded catheters	LFO01-03
1	H.A.M. Applicator, 4-channel, 6 Fr, without embedded catheters	LFO01-04
1	H.A.M. Applicator, 6-channel, 6 Fr, without embedded catheters	LFO01-06
1	H.A.M. Applicator, 9-channel, 6 Fr, without embedded catheters	LFO01-09
1	H.A.M. Applicator, 12-channel, 6 Fr, without embedded catheters	LFO01-12
1	H.A.M. Applicator, 15-channel, 6 Fr, without embedded catheters	LFO01-15
1	H.A.M. Applicator, 18-channel, 6 Fr, without embedded catheters	LFO01-18
1	H.A.M. Applicator, 21-channel, 6 Fr, without embedded catheters	LFO01-21
1	H.A.M. Applicator, 24-channel, 6 Fr, without embedded catheters	LFO01-24

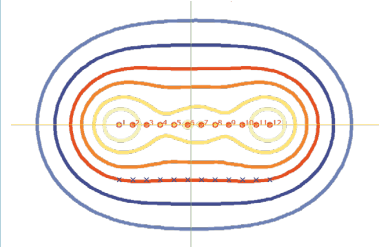
### Required Items

Quantity	Item	Part number
1	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000
20	Flexible Catheter Single Leader, D = 1.65 mm, L = 300 mm	LLA300-F
1	Cutter for Flexible Catheters <sup>7</sup>	LAH06-01

### Optional Items

Quantity	Item	Part number
1	Set of X-Ray Markers, L = 325 mm, Code = 01-20	SET0034
*****	Fixation Balls, d = 1.6 mm, D = 7 mm, (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls <sup>2</sup>	LAH05-02
***** Depending on the numbers of channels to be used		

### Isodose



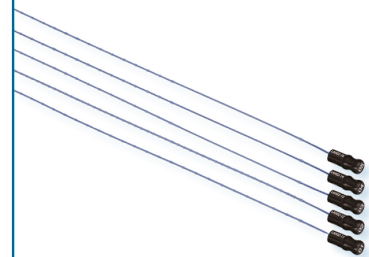
### Easy Click Transfer Tube



### Cutter for Flexible Catheter



### X-Ray Markers



<sup>2</sup> Manufactured by Otto Leibinger GmbH

<sup>7</sup> Manufactured by Pressmaster GmbH

# Valencia Applicator Set

SET1503



A skin applicator, comprising a unique combination of a dose flattening filter and treatment delivery with SagiNova®.

## Skin

### Non-invasive Brachytherapy

The Valencia Applicator design allows for non-invasive brachytherapy of skin cancer<sup>a</sup>, which can be performed in a few fractions with high dose rate Ir-192 sources.

### Dose Flattening Filter

The tungsten-shielded applicator provides a flat dose profile to the skin to offer a more uniform dose to the target area.

### Integration with SagiNova®

The 20 mm and 30 mm versions have different tube lengths to allow for automatic length verification with the SagiNova® afterloader. If the treatment plan requires a 20 mm applicator, the afterloader measures the length of the connected applicator and checks that it matches the expectation.

<sup>a</sup> For use on intact skin

Currently, the Valencia Applicator Set is not compatible with MultiSource

### Features

- 20 mm and 30 mm versions with horizontal source channel
- Dose flattening filter
- Dose distribution based on Monte-Carlo data
- Automatic length check in SagiNova® to assure the correct applicator is connected
- Robust transport and storage tray

### SET1503, for BEBIG Medical transfer tubes

Quantity	Item	Part number
1	Valencia Applicator, D = 20 mm	LCT1503-20 (BVH-20)
1	Valencia Applicator, D = 30 mm	LCT1503-30 (BVH-30)
1	Cap with Marker Ring, D = 20 mm	LCZ1503-21
1	Cap with Marker Ring, D = 30 mm	LCZ1503-31
1	Cap without Marker Ring, D = 20 mm	LCZ1503-22
1	Cap without Marker Ring, D = 30 mm	LCZ1503-32
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Transport and Storage Tray	LCZ1503-11

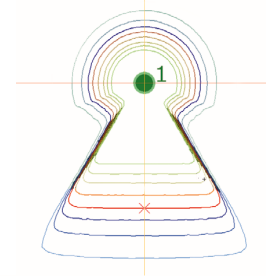
### Required Items

Quantity	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

### Optional Items

Quantity	Item	Part number
1	Replacement Caps (LCZ1503-21, LCZ1503-31, LCZ1503-22, LCZ1503-32)	LCZ1503-04

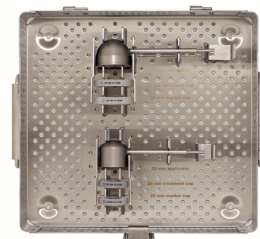
### Isodose



### Transfer Tube

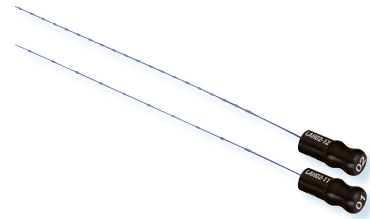
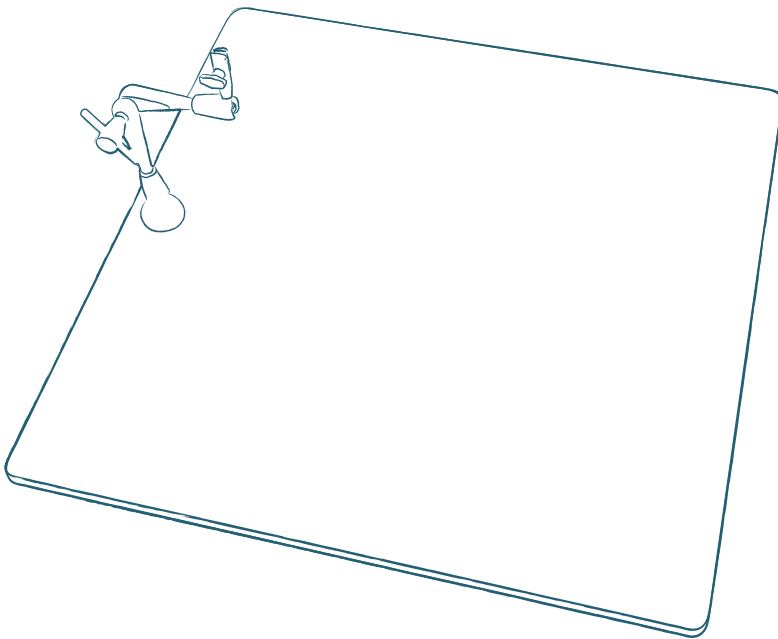


### Transport and Storage Tray



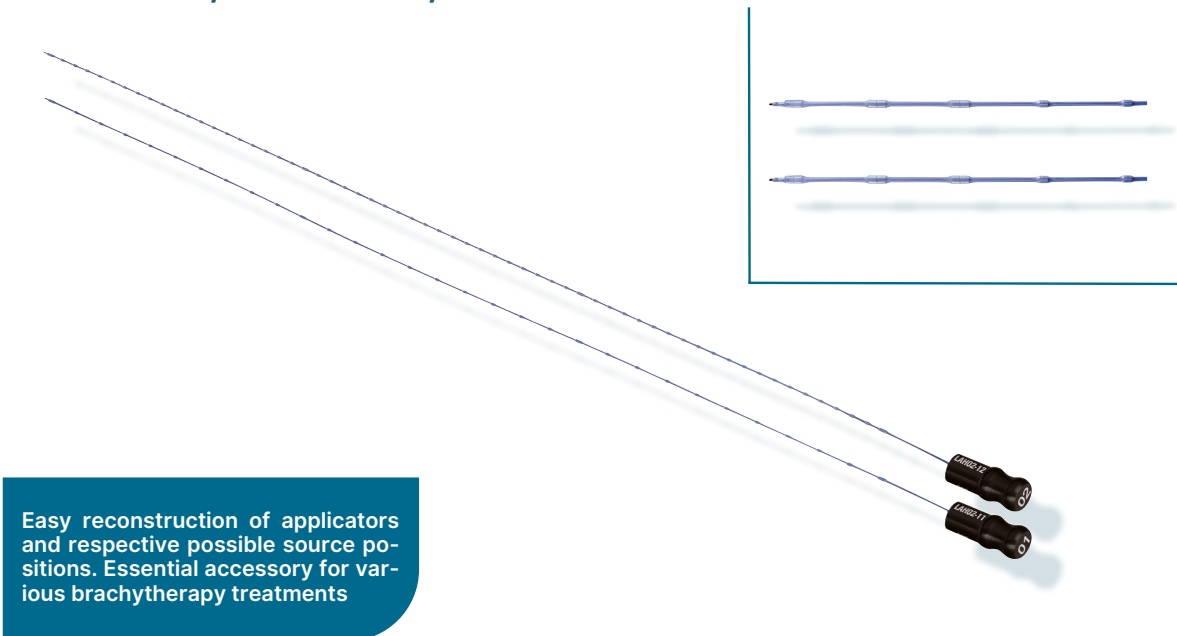


# Accessories



# X-Ray Markers

## SET0030, SET0032, SET0033



Easy reconstruction of applicators and respective possible source positions. Essential accessory for various brachytherapy treatments

### Interstitial, intraluminal, intraoperative and intracavitary brachytherapy

#### Unique Configuration

The X-Ray Markers are designed with a unique configuration of radiopaque tags and spacers with a length of 5 mm or 10 mm. Tags and spacers serve as a ruler to measure distances on X-ray images. With two different combinations of tags and spacers, it is possible to have two distinct rulers at the same time.

#### Simplified Treatment Planning

X-Ray Markers simplify treatment planning by identifying the needles and applicators and the potential source positions. The sets are essential tools for interstitial brachytherapy (SET0030) as well as for intraluminal, intraoperative and intracavitary brachytherapy treatments (SET0032, SET0033).

#### Different Lengths and Applications

With a length of 325 mm, the X-Ray Markers of SET0030 can be used with plastic needles and catheters  $\leq 300$ mm. The X-Ray Markers of SET0032, which have a length of 1430 mm, are designed to be used with the universal applicators LAA1400-GYN. The 1230 mm long X-Ray Markers of SET0033 are intended for use with the universal applicator LLA1200-20 and LLA1200-17.

### Features

- Unique radiopaque tags for ease in reconstruction
- Tags and spacers serve as a ruler to measure distances on images
- Are clearly visible on radiographic imaging and reusable
- Streamline the treatment planning process

### Set Content SET0030

Quantity	Item	Part number
1	X-Ray Marker for Needles, L = 325 mm, Code = 01	LAH02-11
1	X-Ray Marker for Needles, L = 325 mm, Code = 02	LAH02-12

### Set Content SET0032

Quantity	Item	Part number
2	X-Ray Marker with Ruler, L = 1430 mm, Code = 01	LLH02-11

### Set Content SET0033

Quantity	Item	Part number
1	X-Ray Marker with Ruler 10:10, D = 1.2 mm, L = 1230 mm	LLH02-21
1	X-Ray Marker with Ruler 5:5, D = 1.2 mm, L = 1230 mm	LLH02-22

### Required Items SET0030

Quantity	Item	Part number
1	Fixation Cap, D = 1.6 mm	LLZ10-01

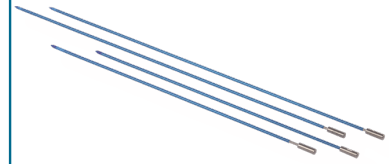
### Required Items SET0032

Quantity	Item	Part number
1	Fixation Cap, D = 7.1 mm	LLZ10-03

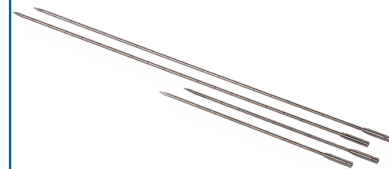
### Required Items SET0033

Quantity	Item	Part number
1	Fixation Cap, D = 1.8 mm	LLZ10-02

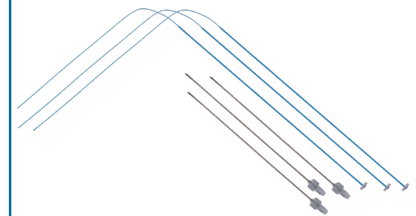
### For use with Plastic Needles



### For use with Steel Needles

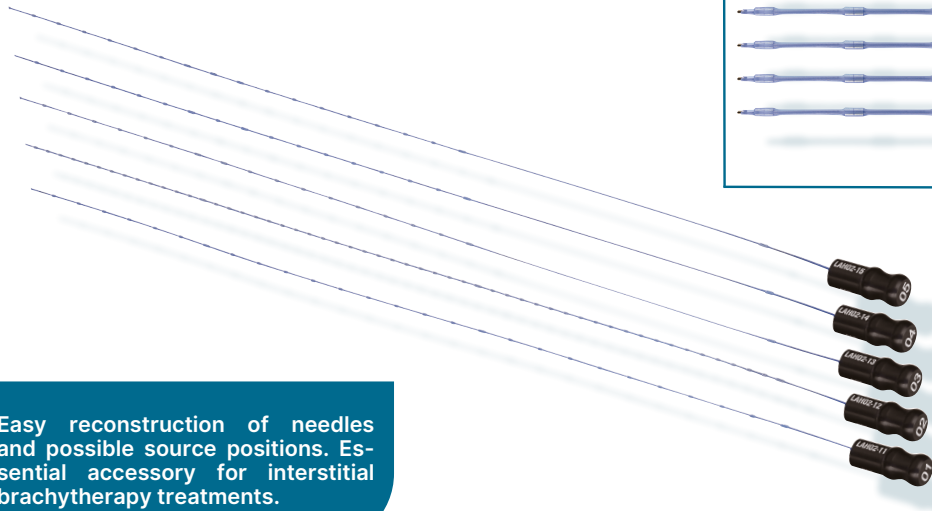


### For use with Flexible Catheters



# X-Ray Markers Code 1-20

SET0034



Easy reconstruction of needles and possible source positions. Essential accessory for interstitial brachytherapy treatments.

## Interstitial brachytherapy

### Interstitial Needle Identification

The X-Ray Markers Code 1-20 are essential for the identification of needles on radiographic images. When multiple needles are implanted in a target volume, this X-Ray Marker Set makes it possible to easily distinguish each needle for treatment planning purposes.

### Unique Configuration

Each X-Ray Marker is designed with its own unique configuration of radiopaque tags. Different patterns of tags and spacers allow the identification of up to 20 individual needles on the radiographic images.

### Simplified Treatment Planning

Treatment planning is simplified when X-Ray Markers are used to identify the needle and potential source positions. This X-Ray Marker set is essential for identification and reconstruction of interstitial implants.

### Features

- Each X-Ray Marker has a unique radiopaque tag for ease in reconstruction
- Are clearly visible on radiographic imaging and are reusable
- Streamline the treatment planning process

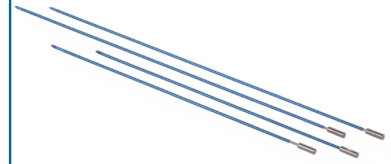
### Set Content SET0034

Quantity	Item	Part number
1	X-Ray Marker for Needles, L = 325 mm, Code = 01	LAH02-11
1	X-Ray Marker for Needles, L = 325 mm, Code = 02	LAH02-12
1	X-Ray Marker for Needles, L = 325 mm, Code = 03	LAH02-13
1	X-Ray Marker for Needles, L = 325 mm, Code = 04	LAH02-14
1	X-Ray Marker for Needles, L = 325 mm, Code = 05	LAH02-15
1	X-Ray Marker for Needles, L = 325 mm, Code = 06	LAH02-16
1	X-Ray Marker for Needles, L = 325 mm, Code = 07	LAH02-17
1	X-Ray Marker for Needles, L = 325 mm, Code = 08	LAH02-18
1	X-Ray Marker for Needles, L = 325 mm, Code = 09	LAH02-19
1	X-Ray Marker for Needles, L = 325 mm, Code = 10	LAH02-20
1	X-Ray Marker for Needles, L = 325 mm, Code = 11	LAH02-21
1	X-Ray Marker for Needles, L = 325 mm, Code = 12	LAH02-22
1	X-Ray Marker for Needles, L = 325 mm, Code = 13	LAH02-23
1	X-Ray Marker for Needles, L = 325 mm, Code = 14	LAH02-24
1	X-Ray Marker for Needles, L = 325 mm, Code = 15	LAH02-25
1	X-Ray Marker for Needles, L = 325 mm, Code = 16	LAH02-26
1	X-Ray Marker for Needles, L = 325 mm, Code = 17	LAH02-27
1	X-Ray Marker for Needles, L = 325 mm, Code = 18	LAH02-28
1	X-Ray Marker for Needles, L = 325 mm, Code = 19	LAH02-29
1	X-Ray Marker for Needles, L = 325 mm, Code = 20	LAH02-30

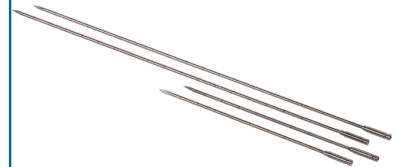
### Required Items SET0034

Quantity	Item	Part number
1	Fixation Cap, D = 1.6 mm	LLZ10-01

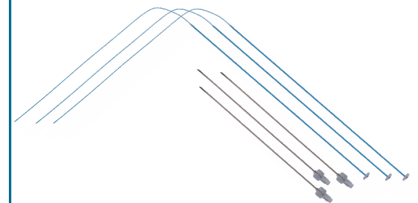
### For use with Plastic Needles



### For use with Steel Needles



### For use with Flexible Catheters



# Applicator Clamp with Baseplate

LAZ22-01



Easy and safe fixation of intracavitary applicators for precise treatment planning in gynecological brachytherapy.

## Interstitial brachytherapy

### For Gynecological Brachytherapy

The Applicator Clamp with Baseplate is made of stainless steel and white acrylic glass. It is an essential accessory for gynecological and rectal brachytherapy. This tool provides stability and immobilization of the applicator during treatment.

### Features

- Compatibility with any BEBIG Medical gynecological and rectal applicators
- Provides applicator stability and immobilization
- Is flexible and can be placed in any position
- Fixation of applicators is easy and adjustable

### Easy Handling

The applicator clamp is designed for easy attachment of any gynecological applicator. The multiple joints allow the clamp to be adjusted to any position. The stainless steel applicator clamp is opened and fixed with just one handle. The baseplate provides added stability and security.

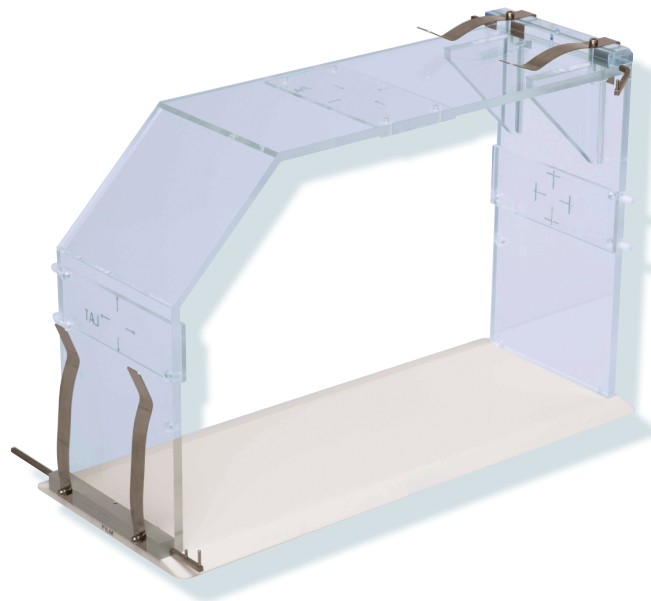
### Proven Asset

The Applicator Clamp with Baseplate is a proven tool for immobilizing the applicator during gynecological brachytherapy treatment.

Quantity	Item	Part number
1	Applicator Clamp with Baseplate	LAZ22-01

# Reconstruction Box

LAZ11-04



Essential tool for mobile radiographic brachytherapy imaging.

For any treatment area

## For Non-Isocentric Reconstruction

The Reconstruction Box is an important accessory for brachytherapy imaging supporting non-isocentric X-ray units (C-arm). The Reconstruction Box is easy to use and provides accurate implant reconstruction with semi-orthogonal films or digital images from C-arm.

## Cross-Hair Markers

The Reconstruction Box consists of an acrylic frame with embedded radiopaque cross-hairs that are visible on the radiographic images. The implant can easily be reconstructed in 3D space with the treatment planning systems SagiPlan® or HDRplus.

## Reliable Applicator Reconstruction

The Reconstruction Box is essential for imaging with non-isocentric C-arm units and is large enough to accommodate even corpulent patients. The box is a recommended tool for precise treatment planning and implant reconstruction.

## Features

- Suitable for use in surgery when filming with a C-arm or mobile unit
- Designed for use in gynecological applications
- Essential for accurate reconstruction using non-isocentric X-ray units
- Lightweight and reusable
- Inner clearance: W = 541 mm, H = 350 mm

Quantity	Item	Part number
1	Reconstruction Box	LAZ11-04

# Sterilization Boxes

## LLZ05-01, LLZ06-01, LLZ07-01

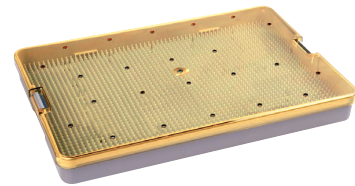


Accessory for easy and safe cleaning of applicators and small parts.

LLZ06-01



LLZ07-01



LLZ05-01/LCZ96-1522A

### For BEBIG Medical and Mick HDR Applicators

#### Durable Sterilization Tool

The Sterilization Boxes are reusable containers for applicators during steam sterilization. The boxes are available in different sizes and can be used for reusable BEBIG Medical and Mick HDR Applicators. A special universal insert holds all parts of an applicator set in place and provides a good overview. The boxes are made of heavy duty plastic to assure many sterilization cycles.

#### Storage

The Sterilization Boxes can be used as storage container for the applicator sets. The transparent removable cover makes it possible to look into the box without opening it, which makes it easy to select the necessary items for treatment.

#### Improved Usability

For steam sterilization of small parts, like screws, clamps and fixation buttons, a special container is available. This small sterilization basket needs to be ordered separately.

#### Features

- Reusable containers for all reusable BEBIG Medical applicators

Quantity	Item	Part number
1	Sterilization Box, 381 x 254 x 38 mm <sup>1</sup>	LLZ05-01/LCZ96-1522A
1	Sterilization Box, 470 x 300 x 130 mm <sup>4</sup>	LLZ06-01
1	Basket with lid for cleaning and sterilizing of small parts, 121 x 73 x 36 mm <sup>5</sup>	LLZ07-01

<sup>1</sup> Manufactured by PST Plastic Sterilizing Trays Corporation

<sup>4</sup> Manufactured by Gebrüder Martin GmbH & Co. KG

<sup>5</sup> Manufactured by Kögel GmbH



# Wall Rack

## LAZ10-01



Easy and safe storage of universal applicators and transfer tubes

For any BEBIG Medical transfer tube

### Simplified Storage

The Wall Rack can be used for all universal applicators and transfer tubes.

### Proven Tool

It is made of powder-coated steel and white copolymer and can be mounted on any wall or site of cabinet.

### Easy Handling

In each of the two turnable magazines 24 tubes can be placed while staying straight, clean and dry until next use.

### Features

- Turnable magazines for all reusable BEBIG Medical source guide tubes

Quantity	Item	Part number
1	Wall Rack	LAZ10-01

# Fact Sheets



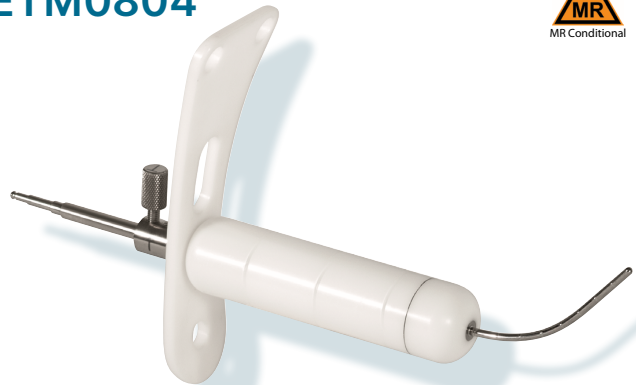
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Gynecological, Rectal & Skin

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# CT/MR Segmented Vaginal Applicator Set

SETM1406, SETM1004, SETM0804



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning.

Vagina, Cervix, Endometrium

## Simplicity

The CT/MR Segmented Vaginal Applicator is designed to accurately and completely treat the vagina and cervix. The four-segment design in multiple widths allows for a range of both lengths as well as diameters to fit a variety of anatomies. The segments are easily fixed in place with a single, toolless lock knob.

## Flexibility

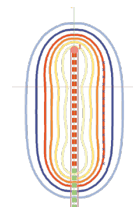
The CT/MR Segmented Vaginal Applicator is available in straight, 15°, 30°, 45° or stump configurations to effectively treat a variety of anatomies. 2.0 cm, 2.5 cm, 3.0 cm and 3.5 cm diameter build-up caps are available standard and can be assembled with 2, 3 or all 4 segments.

## Reliability

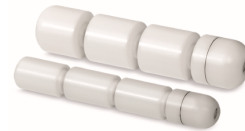
The titanium construction with laser welded connections allows for enhanced stability and torque resistance. The used Delrin\*\* build-up cap cylinder segments resist wear and tear from repeated use and cleaning as well as sterilization.

## Features

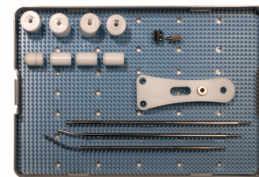
- Autoclavable components
- Expected lifetime is 5 years
- Build-up caps in sets of 4 segments ranging from 2.0 to 3.5 cm in diameter
- Stump and intrauterine design with four angle options
- 3.2 mm intrauterine tubes
- Includes optional perineal retainer for applicator stabilization
- Optional CT/MR intrauterine smit sleeves
- Applicator available with connections for BEBIG Medical
- BEBIG afterloaders, Varian and Elekta/Nucletron transfer tubes\*\*



Isodose



Segmented vaginal cylinder segments



Sterilization box with selected Segmented Vaginal Applicator Set components. Full SETM1406 is not represented in image.

# CT/MR Segmented Vaginal Applicator Set

## SETM1406, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, straight, L = 8 cm	LCZ1406-ST-8
1	CT/MR Stump Tube, straight	LCZ1406-STUMP
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 15°, L = 4 cm	LCZ1406-15-4
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 30°, L = 6 cm	LCZ1406-30-6
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 45°, L = 8 cm	LCZ1406-45-8
1	Spacers – L = 1 cm, 2 cm & 3 cm	LCZ1004-23
1	Distal Dome Segment, D = 2.0 cm	LCZ0804-02-2.0
1	Proximal Segment, D = 2.0 cm	LCZ0804-06-2.0
1	Middle Cylinder Segments, D = 2.0 cm, (2 pcs)	LCZ0804-05-2.0
1	Distal Dome Segment, D = 2.5 cm	LCZ0804-02-2.5
1	Proximal Segment, D = 2.5 cm	LCZ0804-06-2.5
1	Middle Cylinder Segments, D = 2.5 cm, (2 pcs)	LCZ0804-05-2.5
1	Distal Dome Segment, D = 3.0 cm	LCZ0804-02-3.0
1	Proximal Segment, D = 3.0 cm	LCZ0804-06-3.0
1	Middle Cylinder Segments, D = 3.0 cm, (2 pcs)	LCZ0804-05-3.0
1	Distal Dome Segment, D = 3.5 cm	LCZ0804-02-3.5
1	Proximal Segment, D = 3.5 cm	LCZ0804-06-3.5
1	Middle Cylinder Segments, D = 3.5 cm, (2 pcs)	LCZ0804-05-3.5
1	Collet Sleeve	LCZ1004-21
1	Collet Lock Knob	LCZ1004-22
1	Perineal Retainer	LCZ0804-20
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm***	LCZ96-1522A



BEBIG Medical SagiNova® afterloader

## Required Items SETM1406

Qty.	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

# CT/MR Segmented Vaginal Applicator Set

## SETM1004, for Varian transfer tubes\*\*

Qty.	Item	Part number
1	CT/MR Stump Tube, straight	1004-13-STUMP
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 15°, L = 4 cm	1004-13-15-4CM
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 30°, L = 6 cm	1004-13-30-6CM
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 45°, L = 8 cm	1004-13-45-8CM
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, straight, L = 8 cm	1004-13-ST-8CM
1	Spacers – L = 1 cm, 2 cm & 3 cm	1004-23
1	Distal Dome Segment, D = 2.0 cm	0804-02-2.0
1	Proximal Segment, D = 2.0 cm	0804-06-2.0
1	Middle Cylinder Segments, D = 2.0 cm, (2 pcs)	0804-05-2.0
1	Distal Dome Segment, D = 2.5 cm	0804-02-2.5
1	Proximal Segment, D = 2.5 cm	0804-06-2.5
1	Middle Cylinder Segments, dD = 2.5 cm, (2 pcs)	0804-05-2.5
1	Distal Dome Segment, D = 3.0 cm	0804-02-3.0
1	Proximal Segment, D = 3.0 cm	0804-06-3.0
1	Middle Cylinder Segments, D = 3.0 cm, (2 pcs)	0804-05-3.0
1	Distal Dome Segment, D = 3.5 cm	0804-02-3.5
1	Proximal Segment, D = 3.5 cm	0804-06-3.5
1	Middle Cylinder Segments, D = 3.5 cm, (2 pcs)	0804-05-3.5
1	Collet Sleeve	1004-21
1	Collet Lock Knob	1004-22
1	Perineal Retainer	0804-20
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Box, 381 x 254 x 38 mm***	96-1522A

## SETM0804, for Elekta/Nucletron transfer tubes\*\*

Qty.	Item	Part number
1	CT/MR Stump Tube, straight	0804-13-STUMP
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 15°, L = 4 cm	0804-13-15-4CM
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 30°, L = 6 cm	0804-13-30-6CM
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 45°, L = 8 cm	0804-13-45-8CM
1	CT/MR Segmented Vaginal Applicator Intrauterine Tube, straight, L = 8 cm	0804-13-ST-8CM
1	Spacers – L = 1 cm, 2 cm & 3 cm	1004-23
1	Distal Dome Segment, D = 2.0 cm	0804-02-2.0
1	Proximal Segment, D = 2.0 cm	0804-06-2.0
1	Middle Cylinder Segments, D = 2.0 cm, (2 pcs)	0804-05-2.0
1	Distal Dome Segment, D = 2.5 cm	0804-02-2.5
1	Proximal Segment, D = 2.5 cm	0804-06-2.5
1	Middle Cylinder Segments, D = 2.5 cm, (2 pcs)	0804-05-2.5
1	Distal Dome Segment, D = 3.0 cm	0804-02-3.0
1	Proximal Segment, D = 3.0 cm	0804-06-3.0
1	Middle Cylinder Segments, D = 3.0 cm, (2 pcs)	0804-05-3.0
1	Distal Dome Segment, D = 3.5 cm	0804-02-3.5
1	Proximal Segment, D = 3.5 cm	0804-06-3.5
1	Middle Cylinder Segments, D = 3.5 cm, (2 pcs)	0804-05-3.5
1	Collet Sleeve	1004-21
1	Collet Lock Knob	1004-22
1	Perineal Retainer	0804-20
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Box, 381 x 254 x 38 mm***	96-1522A

## Optional Items

Qty.	Item	Part number
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

# CT/MR Miami Applicator Sets

SETM1410, SETM0904, SETM0920



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning.



Vagina, Cervix, Endometrium

## Simplicity

The CT/MR Miami Applicator is designed for simplicity, even in the most advanced settings. The CT/MR Miami Applicator 7-channel design enables either complete or targeted treatment throughout the vagina and cervix. It allows for accurate and reliable treatments in nearly any anatomy with a range of intrauterine angle and stump configurations, various sized build-up caps and optional dome end build-up caps. The single step applicator placement requires minimal intracavitary assembly. The detachable body, cylinder and docking unit design enables quick setup and simplify cleaning. Also the cervical stop enhances repeatability and reduces potential for iatrogenic injury.

## Flexibility

The CT/MR Miami Applicator Set includes standard 30°, 0° and stump configurations to effectively treat a variety of anatomies. The 3.0 cm, 3.5 cm and 4.0 cm build-up cap cylinders and optional domes allow for enhanced source spacing, and the 7-channel design enables more precise dose distribution around circumference of the vagina.



Domed build-up caps



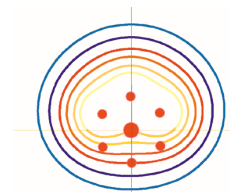
Build-up caps

## Reliability

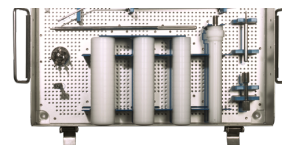
The titanium construction with laser welded connections allows for enhanced stability and torque resistance. Keyed connections ensure consistent alignment of channels and intrauterine tube.

## Features

- Autoclavable components
- Expected lifetime is 5 years
- Flat and optional domed cylinders for variety of anatomies
- 3.2 mm intrauterine tubes
- Enhanced control of vaginal and cervical dose with 6 circumferential tubes plus a central intrauterine tube
- Optional CT/MR intrauterine smit sleeves
- Applicator available with connections for BEBIG Medical afterloaders, Varian and Elekta/Nucletron transfer tubes\*



Isodose



Sterilization tray with Miami Applicator Set components

# CT/MR Miami Applicator Sets

## SETM1410, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Miami Applicator Intrauterine Tube, 30°	LCZ1410-IU-30
1	CT/MR Miami Applicator Intrauterine Tube, straight	LCZ1410-IU-ST
1	Docking Unit Assembly	LCZ1410-36
1	CT/MR Miami Applicator Body	LCZ0904-01
1	Build-Up Cap, D = 30 mm	LCZ0904-02-30
1	Build-Up Cap, D = 35 mm	LCZ0904-02-35
1	Build-Up Cap, D = 40 mm	LCZ0904-02-40
1	Tandem Lock Nut	LCZ0904-10
1	Cervical Stop	LCZ0508-10
1	Stainless Steel Allen Wrench	LCZ7311
1	Stump Plug	LCZ0104-30
1	Stump Plug Insertion Tool	LCZ0104-29
1	Sealing Caps, (10 pcs each)	LAZ17-03
1	Sterilization Tray	LCZSS00873000

## SETM0904, for Varian transfer tubes\*

Qty.	Item	Part number
1	CT/MR Miami Applicator Intrauterine Tube, 30°	0904-14-30
1	CT/MR Miami Applicator Intrauterine Tube, straight	0904-14-ST
1	Docking Unit Assembly	0904-36
1	CT/MR Miami Applicator Body	0904-01
1	Build-Up Cap, D = 30 mm	0904-02-30
1	Build-Up Cap, D = 35 mm	0904-02-35
1	Build-Up Cap, D = 40 mm	0904-02-40
1	Tandem Lock Nut	0904-10
1	Cervical Stop	0508-10
1	Stainless Steel Allen Wrench	7311
1	Stump Plug	0104-30
1	Stump Plug Insertion Tool	0104-29
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Tray	SS00873000

## Required Items SETM1410

Qty.	Item	Part number
7	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

## Optional Items

Qty.	Item	Part number
1	Domed Build-Up Cap, D = 25 mm	LCZ0904-40-25
1	Domed Build-Up Cap, D = 30 mm	LCZ0904-40-30
1	Domed Build-Up Cap, D = 35 mm	LCZ0904-40-35
1	Domed Build-Up Cap, D = 40 mm	LCZ0904-40-40
1	Build-Up Cap, D = 25 mm	LCZ0904-02-25
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

## SETM0920, for Elekta/Nucletron transfer tubes\*

Qty.	Item	Part number
1	CT/MR Miami Applicator Intrauterine Tube, 30°	0920-IU-30
1	CT/MR Miami Applicator Intrauterine Tube, straight	0920-IU-ST
1	Docking Unit Assembly	0920-36
1	CT/MR Miami Applicator Body	0920-01
1	Build-Up Cap, D = 30 mm	0904-02-30
1	Build-Up Cap, D = 35 mm	0904-02-35
1	Build-Up Cap, D = 40 mm	0904-02-40
1	Cervical Stop	0508-10
1	Stainless Steel Allen Wrench	7311
1	Intrauterine Tube Set Screw Adjustment	WRH-003
1	Stump Plug	0104-30
1	Stump Plug Insertion Tool	0104-29
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Tray	SS008873000



BEBIG Medical SagiNova® afterloader

\* The applicator has been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions. Users are responsible for validating applicator compatibility, including treatment planning systems, with their afterloading equipment. Varian is a trade name/trademark of Varian Medical Systems, Inc. Elekta/Nucletron are trade names/trademarks of Elekta AB (publ). Mick and SagiNova are registered trademarks of BEBIG Medical and its subsidiaries. The mentioned products are not available in all markets. Please contact your local BEBIG Medical representative for more information.

### Manufacturer:

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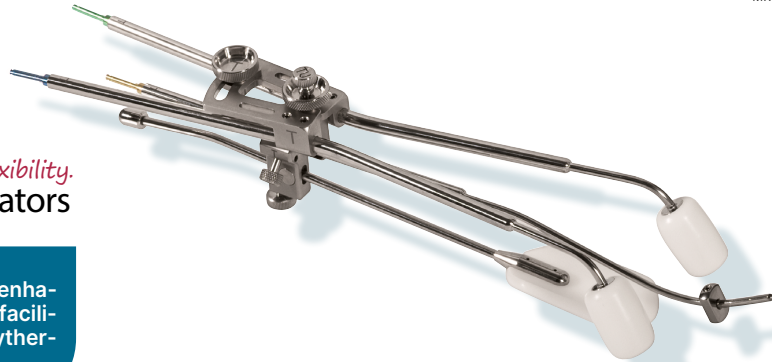
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www.micknuclear.com

# CT/MR Fletcher (FSD) Applicator Set

SETM1409, SETM0612, SETM0819



Innovative design provides for enhanced clinical advantages and facilitates CT and MR based brachytherapy planning.

## Cervix, Endometrium

### Well-Accepted Design

The CT/MR Fletcher (FSD) Applicator leverages the well-accepted intrauterine tube and ovoid structure of the Fletcher-Suit-Delclos design, while enhancing usability and flexibility. The connecting bracket is designed with concentric locking knobs that fix the intrauterine tube in place between the ovoids, while the lateral positioning remains unrestricted, providing a high degree of flexibility and adaptation to anatomical conditions.

### Adjustable Rectal Retractor

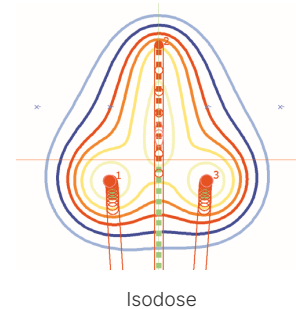
The CT/MR Fletcher Applicator Set includes an adjustable rectal retractor for immobilization without packing. Additionally, three ovoid pairs of varying sizes and four intrauterine tubes with different lengths are included to accommodate a wide variety of anatomies.

### MR Conditionality

All materials for this applicator, such as medical grade titanium, have been selected to enable MR conditionality for enhanced planning and structural integrity, to give you the confidence for accurate placement and treatment.

### Features

- Ovoid pairs in 2.0 cm, 2.5 cm and 3.0 cm diameters
- 3.2 mm intrauterine tubes with 2 cm, 4 cm, 6 cm and 8 cm lengths
- MR conditional for 1.5T and 3T
- Lightweight construction that is simple to assemble
- Rectal retractor may eliminate need for packing
- Expected lifetime is 5 years
- Optional CT/MR intrauterine smit sleeves
- Applicator available with connections for BEBIG Medical afterloaders, Varian and Elekta/Nucletron transfer tubes\*



CT/MR rectal retractor



# CT/MR Fletcher (FSD) Applicator Set

## SETM1409, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Fletcher-Suit-Delclos (FSD), right	LCZ1409-R
1	CT/MR Fletcher-Suit-Delclos (FSD), left	LCZ1409-L
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 20 mm	LCZ1409-2
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 40 mm	LCZ1409-4
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 60 mm	LCZ1409-6
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 80 mm	LCZ1409-8
1	Ovoid Pair, D = 20 mm, (2 pcs)	LCZ0612-12
1	Ovoid Pair, D = 25 mm, (2 pcs)	LCZ0612-11
1	Ovoid Pair, D = 30 mm, (2 pcs)	LCZ0612-10
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Tandem Lock Knob	LCZ0702-16
1	Distal Bracket Lock Knob	LCZ0702-17
1	Spacing Lock Knob	LCZ0508-08
1	Tandem Clamp	LCZ0702-18
1	Stainless Steel Allen Wrench	LCZ7311
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sealing Caps, (10 pcs each)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm**	LCZ96-1522A

## Required Items SETM1409

Qty.	Item	Part number
1	Transfer Tube, D=3 mm, L=1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D=3 mm, L=1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D=3 mm, L=1000 mm, Color code: blue, Channel: 3	LAF1000-3

## SETM0612, for Varian transfer tubes\*

Qty.	Item	Part number
1	CT/MR Fletcher-Suit-Delclos (FSD), right	0612-04-01
1	CT/MR Fletcher-Suit-Delclos (FSD), left	0612-04-02
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 20 mm	0612-05-2
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 40 mm	0612-05-4
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 60 mm	0612-05-6
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 80 mm	0612-05-8
1	Ovoid Pair, D = 20 mm, (2 pcs)	0612-12

## Optional Items

Qty.	Item	Part number
1	O.void Pair, D = 15 mm, (2 pcs)	LCZ0612-16
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

## Continued SETM0612, for Varian transfer tubes\*

Qty.	Item	Part number
1	Ovoid Pair, D = 25 mm, (2 pcs)	0612-11
1	Ovoid Pair, D = 30 mm, (2 pcs)	0612-10
1	CT/MR Universal Rectal Retractor	1209
1	Cervical Stop	0508-10
1	Tandem Lock Knob	0702-16
1	Distal Bracket Lock Knob	0702-17
1	Spacing Lock Knob	0508-08
1	Tandem Clamp	0702-18
1	Stainless Steel Allen Wrench	7311
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A

## SETM0819, for Elekta/Nucletron transfer tubes\*

Qty.	Item	Part number
1	CT/MR Fletcher-Suit-Delclos (FSD), right	0819-04-01
1	CT/MR Fletcher-Suit-Delclos (FSD), left	0819-04-02
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 20 mm	0819-05-2
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 40 mm	0819-05-4
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 60 mm	0819-05-6
1	CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 80 mm	0819-05-8
1	Ovoid Pair, D = 20 mm, (2 pcs)	0612-12
1	Ovoid Pair, D = 25 mm, (2 pcs)	0612-11
1	Ovoid Pair, D = 30 mm, (2 pcs)	0612-10
1	CT/MR Universal Rectal Retractor	1209
1	Cervical Stop	0508-10
1	Tandem Lock Knob	0702-16
1	Distal Bracket Lock Knob	0702-17
1	Spacing Lock Knob	0508-08
1	Tandem Clamp	0702-18
1	Stainless Steel Allen Wrench	7311
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A

\* The applicator has been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions. Users are responsible for validating applicator compatibility, including treatment planning systems, with their afterloading equipment. Varian is a trade name/trademark of Varian Medical Systems, Inc. Elekta/Nucletron are trade names/trademarks of Elekta AB (publ). \*\* Manufactured by PST Plastic Sterilizing Trays Corporation. Mick is a registered trademark of BEBIG Medical and its subsidiaries. The mentioned products are not available in all markets. Please contact your local BEBIG Medical representative for more information.

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# CT/MR Henschke Applicator Set

SETM1408, SETM0508, SETM0826



Innovative design provides for enhanced clinical advantages and facilitates CT and MR based brachytherapy planning.



## Cervix, Endometrium

### Well-Accepted Design

The CT/MR Henschke Applicator leverages the well accepted intrauterine tube and ovoid structure of the Henschke design, but enhances usability and flexibility. The connecting bracket is designed with concentric locking knobs that fix the intrauterine tube in place between the ovoids while the lateral positioning remains unrestricted, providing a high degree of flexibility and adaptation to anatomical conditions.

### Accessories Included

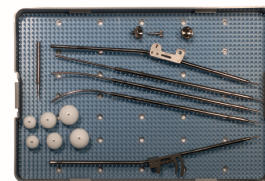
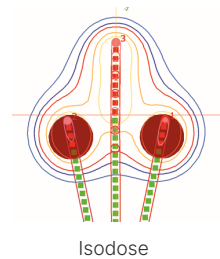
The CT/MR Henschke Applicator Set includes an adjustable rectal retractor for immobilization without packing and three ovoid pairs with three intrauterine tubes of varying sizes and curvatures to accommodate a wide variety of anatomies.

### MR Conditionality

All materials for this applicator, such as medical grade titanium, have been selected to enable MR conditionality for enhanced planning and structural integrity, to give you the confidence for accurate placement and treatment.

### Features

- Ovoid pairs in 2.0 cm, 2.5 cm and 3.0 cm diameters
- 3.2 mm intrauterine tubes with straight, medium curve and maximum curve configurations
- CT compatible and MR conditional for 1.5T and 3T
- Lightweight construction that is simple to assemble
- Expected lifetime is 5 years
- Optional CT/MR intrauterine smit sleeves
- Applicator available with connections for BEBIG Medical afterloaders, Varian and Elekta/Nucletron transfer tubes\*



Sterilization box with selected Henschke Applicator Set components

# CT/MR Henschke Applicator Set

## SETM1408, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Henschke Applicator, right	LCZ1408-R
1	CT/MR Henschke Applicator, left	LCZ1408-L
1	CT/MR Henschke Intrauterine Tube, straight	LCZ1408-S
1	CT/MR Henschke Intrauterine Tube, med-curve	LCZ1408-M
1	CT/MR Henschke Intrauterine Tube, max-curve	LCZ1408-MX
1	Ovoid Pair, D = 20 mm, (2 pcs)	LCZ0508-13-2.0
1	Ovoid Pair, D = 25 mm, (2 pcs)	LCZ0508-13-2.5
1	Ovoid Pair, D = 30 mm, (2 pcs)	LCZ0508-13-3.0
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Tandem Lock Knob	LCZ0508-16
1	Distal Bracket Lock Knob	LCZ0508-17
1	Spacing Lock Knob	LCZ0508-08
1	Tandem Clamp	LCZ0508-07
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs each)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm**	LCZ96-1522A

## Required Items SETM1408

Qty.	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3

## SETM0508, for Varian transfer tubes\*

Qty.	Item	Part number
1	CT/MR Henschke Applicator, right	0508-03-01
1	CT/MR Henschke Applicator, left	0508-03-02
1	CT/MR Henschke Intrauterine Tube, straight	0508-02-ST
1	CT/MR Henschke Intrauterine Tube, med-curve	0508-02-MD
1	CT/MR Henschke Intrauterine Tube, max-curve	0508-05-MX
1	Ovoid Pair, D = 20 mm, (2 pcs)	0508-13-2.0
1	Ovoid Pair, D = 25 mm, (2 pcs)	0508-13-2.5

## Continued SETM0508, for Varian transfer tubes\*

Qty.	Item	Part number
1	Ovoid Pair, D = 30 mm, (2 pcs)	0508-13-3.0
1	CT/MR Universal Rectal Retractor	1209
1	Cervical Stop	0508-10
1	Tandem Lock Knob	0508-16
1	Distal Bracket Lock Knob	0508-17
1	Spacing Lock Knob	0508-08
1	Tandem Clamp	0508-07
1	Stainless Steel Allen Wrench	7311
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A

## SETM0826, for Elekta/Nucletron transfer tubes\*

Qty.	Item	Part number
1	CT/MR Henschke Applicator, right	0826-04-01
1	CT/MR Henschke Applicator, left	0826-04-02
1	CT/MR Henschke Intrauterine Tube, straight	0826-02-06-ST
1	CT/MR Henschke Intrauterine Tube, med-curve	0826-02-06-MD
1	CT/MR Henschke Intrauterine Tube, max-curve	0826-02-06-MX
1	Ovoid Pair, D = 20 mm, (2 pcs)	0508-13-2.0
1	Ovoid Pair, D = 25 mm, (2 pcs)	0508-13-2.5
1	Ovoid Pair, D = 30 mm, (2 pcs)	0508-13-3.0
1	CT/MR Universal Rectal Retractor	1209
1	Cervical Stop	0508-10
1	Tandem Lock Knob	0508-16
1	Distal Bracket Lock Knob	0508-17
1	Spacing Lock Knob	0508-08
1	Tandem Clamp	0508-07
1	Stainless Steel Allen Wrench	7311
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A

## Optional Items

Qty.	Item	Part number
1	No-Stich SMIT Sleeves, hard, for <3.5 mm IU, single use, (10 pcs)	LCZ05-01

\* The applicator has been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions.

Users are responsible for validating applicator compatibility, including treatment planning systems, with their afterloading equipment.

Varian is a trade name/trademark of Varian Medical Systems, Inc. Elekta/Nucletron are trade names/trademarks of Elekta AB (publ).

\*\* Manufactured by PST Plastic Sterilizing Trays Corporation. Mick is a registered trademark of BEBIG Medical and its subsidiaries.

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# CT/MR Split Ring Applicator Set

SETM1401, SETM0605, SETM0840



Innovative, patented design provides for enhanced clinical advantages and facilitates CT and MR based brachytherapy planning.



## Cervix, Endometrium

### Well-Accepted Design

The CT/MR Split Ring Applicator's patented design combines the benefits of several other intracavitary applicators with the ability to be configured as a closed ring or split into four different diameter distances in either symmetric or asymmetric arrangements. The connecting bracket enables simple connection and easy confirmation of diameter settings with three clearly visible identifiers associated with physical detents to lock in the chosen position.

### Various Configurations

The Split Ring Applicator Combination Set includes configurations for 30°, 45° and 60° 'ring' angles with a variety of intrauterine tube lengths and disposable or optional reusable build-up caps to fit a wide variety of anatomies.

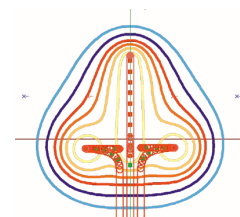
### MR Conditionality

All materials for this applicator, such as medical grade titanium, have been selected both to enable MR conditionality for enhanced planning and structural integrity, to give you the confidence for accurate placement and treatment.

### Features

- Split Ring symmetric diameters of 38 mm, 48 mm, 58 mm and 68 mm
- Reproducible geometry with diameter increments of as little as 5 mm based on single-side tube adjustment
- 3.2 mm intrauterine tubes with intrauterine sections of 20 mm, 40 mm, 60 mm and 80 mm for each of three angles (30°, 45°, 60°)
- Split Ring Applicators are CT compatible and MR conditional
- High quality – streak-free CT images for precise planning
- Lightweight yet sturdy titanium design
- Unique dose distribution flexibility and adjustability
- Individual insertion of right and left Split Ring tubes
- facilitates insertion in patients with a narrow introitus
- Packing may be obviated with the use of the included rectal retractor
- Expected lifetime is 5 years

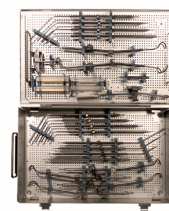
- Optional CT/MR intrauterine smit sleeves
- Applicator available with connections for BEBIG Medical afterloaders, Varian and Elekta/Nucletron transfer tubes\*



Isodose



Split Ring with disposable caps



Sterilization tray with Split Ring Applicator Set components

# CT/MR Split Ring Applicator Set

## SETM1401-CT/MR Split Ring Applicator Combo Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Split Ring, 30°, right tube	LCZ1401-30R
1	CT/MR Split Ring, 30°, left tube	LCZ1401-30L
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 20 mm	LCZ1401-30-2
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 40 mm	LCZ1401-30-4
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 60 mm	LCZ1401-30-6
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 80 mm	LCZ1401-30-8
1	CT/MR Split Ring, 45°, right tube	LCZ1401-45R
1	CT/MR Split Ring, 45°, left tube	LCZ1401-45L
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 20 mm	LCZ1401-45-2
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 40 mm	LCZ1401-45-4
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 60 mm	LCZ1401-45-6
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 80 mm	LCZ1401-45-8
1	CT/MR Split Ring, 60°, right tube	LCZ1401-60R
1	CT/MR Split Ring, 60°, left tube	LCZ1401-60L
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 20 mm	LCZ1401-60-2
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 40 mm	LCZ1401-60-4
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 60 mm	LCZ1401-60-6
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 80 mm	LCZ1401-60-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

## SETM1401-30-CT/MR Split Ring Applicator 30° Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Split Ring, 30°, right tube	LCZ1401-30R
1	CT/MR Split Ring, 30°, left tube	LCZ1401-30L
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 20 mm	LCZ1401-30-2
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 40 mm	LCZ1401-30-4
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 60 mm	LCZ1401-30-6
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 80 mm	LCZ1401-30-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

## SETM1401-45-CT/MR Split Ring Applicator 45° Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Split Ring, 45°, right tube	LCZ1401-45R
1	CT/MR Split Ring, 45°, left tube	LCZ1401-45L
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 20 mm	LCZ1401-45-2
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 40 mm	LCZ1401-45-4
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 60 mm	LCZ1401-45-6
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 80 mm	LCZ1401-45-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

# CT/MR Split Ring Applicator Set

## SETM1401-60-CT/MR Split Ring Applicator 60° Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Split Ring, 60°, right tube	LCZ1401-60R
1	CT/MR Split Ring, 60°, left tube	LCZ1401-60L
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 20 mm	LCZ1401-60-2
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 40 mm	LCZ1401-60-4
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 60 mm	LCZ1401-60-6
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 80 mm	LCZ1401-60-8
1	CT/MR Universal Rectal Retractor	LCZ1209
1	Cervical Stop	LCZ0508-10
1	Support Wing	LCZ0605-20
1	Sterilization Tray	LCZ1107
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610

### Required Items SETM1401, SETM1401-30, SETM1401-45, SETM1401-60

Qty.	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3



BEBIG Medical SagiNova® afterloader

## SETM0605-CT/MR Split Ring Applicator Combo Set, for Varian transfer tubes\*

Qty.	Item	Part number
1	CT/MR Split Ring, 30°, left tube	0605-30-CSA-02
1	CT/MR Split Ring, 45°, left tube	0605-45-CSA-02
1	CT/MR Split Ring, 60°, left tube	0605-60-CSA-02
1	CT/MR Split Ring, 30°, right tube	0605-30-CSA-01
1	CT/MR Split Ring, 45°, right tube	0605-45-CSA-01
1	CT/MR Split Ring, 60°, right tube	0605-60-CSA-01
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 20 mm	0605-30-TSA-02
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 20 mm	0605-45-TSA-02
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 20 mm	0605-60-TSA-02
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 40 mm	0605-30-TSA-04
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 40 mm	0605-45-TSA-04
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 40 mm	0605-60-TSA-04
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 60 mm	0605-30-TSA-06
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 60 mm	0605-45-TSA-06
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 60 mm	0605-60-TSA-06
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 80 mm	0605-30-TSA-08
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 80 mm	0605-45-TSA-08
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 80 mm	0605-60-TSA-08
1	Cervical Stop	0508-10
1	Support Wing	0605-20
1	CT/MR Universal Rectal Retractor	1209
1	Stainless Steel Allen Wrench	7311
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Tray	1107
1	Sterilization Caps, (10 pcs)	SRC093-12

# CT/MR Split Ring Applicator Set

## SETM0840–CT/MR Split Ring Applicator Combo Set, for Elekta/Nucletron transfer tubes\*

Qty.	Item	Part number
1	CT/MR Split Ring, 30°, left tube	0840-30-CSA-02
1	CT/MR Split Ring, 45°, left tube	0840-45-CSA-02
1	CT/MR Split Ring, 60°, left tube	0840-60-CSA-02
1	CT/MR Split Ring, 30°, right tube	0840-30-CSA-01
1	CT/MR Split Ring, 45°, right tube	0840-45-CSA-01
1	CT/MR Split Ring, 60°, right tube	0840-60-CSA-01
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 20 mm	0840-30-TSA-02
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 20 mm	0840-45-TSA-02
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 20 mm	0840-60-TSA-02
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 40 mm	0840-30-TSA-04
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 40 mm	0840-45-TSA-04
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 40 mm	0840-60-TSA-04
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 60 mm	0840-30-TSA-06
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 60 mm	0840-45-TSA-06
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 60 mm	0840-60-TSA-06
1	CT/MR Split Ring Intrauterine Tube, 30°, L = 80 mm	0840-30-TSA-08
1	CT/MR Split Ring Intrauterine Tube, 45°, L = 80 mm	0840-45-TSA-08
1	CT/MR Split Ring Intrauterine Tube, 60°, L = 80 mm	0840-60-TSA-08
1	Cervical Stop	0508-10
1	Support Wing	0605-20
1	CT/MR Universal Rectal Retractor	1209
1	Stainless Steel Allen Wrench	7311
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Tray	1107
1	Sterilization Caps, (10 pcs)	SRC093-12

## Optional Items

Qty.	Item	Part number
1	Build-Up Caps, 5.0 mm x 5.0 mm, reusable, (2 pcs)	LCZ1305-01-01
1	Build-Up Caps, 5 mm x 7.5 mm, reusable, (2 pcs)	LCZ1305-01-02
1	Build-Up Caps, 7.5 mm x 5.0 mm, reusable, (2 pcs)	LCZ1305-01-03
1	Build-Up Caps, 7.5 mm x 7.5 mm, reusable, (2 pcs)	LCZ1305-01-04
1	Build-Up Caps, 5 mm x 10 mm, reusable, (2 pcs)	LCZ1305-01-05
1	Build-Up Caps, 10 mm x 10 mm, reusable, (2 pcs)	LCZ1305-01-06
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

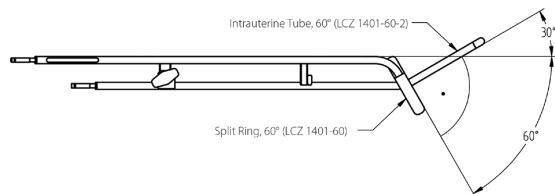
## For replacement orders:

### Please order based on the 'ring angle':

CT/MR Split Ring, 30°, right & left tube with CT/MR Split Ring Intrauterine Tube, 30°

CT/MR Split Ring, 45°, right & left tube with CT/MR Split Ring Intrauterine Tube, 45°

CT/MR Split Ring, 60°, right & left tube with CT/MR Split Ring Intrauterine Tube, 60°



\* The applicator has been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions. Users are responsible for validating applicator compatibility, including treatment planning systems, with their afterloading equipment. Varian is a trade name/trademark of Varian Medical Systems, Inc. Elekta/Nucletron are trade names/trademarks of Elekta AB (publ). Mick and Saginova are registered trademarks of BEBIG Medical and its subsidiaries. The mentioned products are not available in all markets. Please contact your local BEBIG Medical representative for more information.

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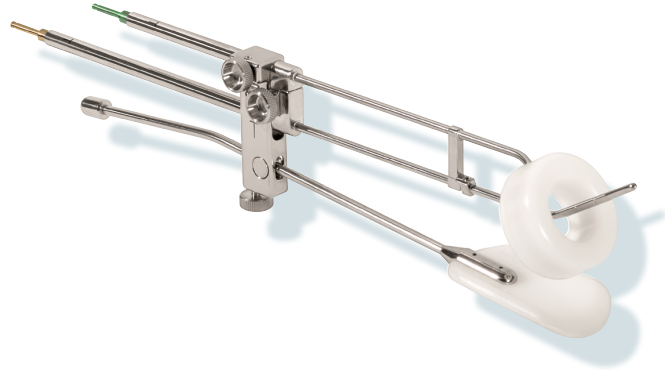


# CT/MR Ring & Tandem Applicator Set

SETM0922, SETM1402, SETM0407, SETM0902,  
SETM0820, SETM0903



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning.



## Cervix, Endometrium

### Simplicity

The CT/MR Ring & Tandem Applicator is designed to treat accurately and reliably in nearly any anatomy with a range of ring angles, intrauterine tube lengths, build-up cap sizes and an optional rectal retractor to increase distance to organs at risk and eliminate the need for packing. The single ring tube treats the circumference of the cervix and there is only one connection for efficient placement and procedure.

### Flexibility

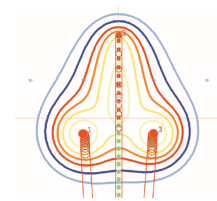
The CT/MR Ring & Tandem Applicator is available in 30°, 45° and 60° (defined by intrauterine tube angle) configurations to effectively treat a variety of anatomies. 5 mm or 7.5 mm build-up caps are available for enhanced tissue spacing.

### Reliability

The titanium construction with laser welded connections allows for enhanced stability and torque resistance. The dual fixation points ensure alignment every time.

### Features

- Autoclavable components
- Expected lifetime is 5 years
- 3.2 mm intrauterine tubes
- Removable build-up caps attach to any angle ring tube, no tools required
- Rectal retractor
- Significant dose coverage with two channels
- Applicator available with connections for BEBIG Medical



Isodose



Ring & Tandem build-up caps



# CT/MR Ring & Tandem Applicator Set

## SETM0922-CT/MR Ring & Tandem Applicator Combo 32 mm Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 32 mm	LCZ0922-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	LCZ0922-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	LCZ0922-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	LCZ0922-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 32 mm	LCZ0922-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	LCZ0922-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	LCZ0922-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	LCZ0922-45-6
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 32 mm	LCZ0922-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	LCZ0922-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	LCZ0922-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	LCZ0922-60-6
1	Rectal Retractor Assembly	LCZ1208-05
1	Build-Up Cap, D = 5 mm	LCZ0213-63-1
1	Build-Up Cap, D = 7.5 mm	LCZ0213-63-2
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Tray	SS00871000

## SETM1402-CT/MR Ring & Tandem Applicator Combo 26 mm Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 26 mm	LCZ1402-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	LCZ1402-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	LCZ1402-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	LCZ1402-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 26 mm	LCZ1402-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	LCZ1402-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	LCZ1402-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	LCZ1402-45-6
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 26 mm	LCZ1402-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	LCZ1402-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	LCZ1402-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	LCZ1402-60-6
1	Rectal Retractor Assembly	LCZ1208-05
1	Build-Up Cap, D = 5 mm	LCZ0902-58
1	Build-Up Cap, D = 7.5 mm	LCZ0902-53
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Tray	SS00871000

### Required Items SETM0922, SETM1402

Qty.	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2



BEBIG Medical SagiNova® afterloader

# CT/MR Ring & Tandem Applicator Set

## SETM0407-CT/MR Ring & Tandem Applicator Combo 32 mm Set, for Varian transfer tubes\*

Qty.	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 32 mm	0407-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	0407-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	0407-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	0407-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 32 mm	0407-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	0407-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	0407-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	0407-45-6
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 32 mm	0407-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	0407-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	0407-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	0407-60-6
1	Rectal Retractor Assembly	1208-05
1	Build-Up Cap, D = 5 mm	0213-63-1
1	Build-Up Cap, D = 7.5 mm	0213-63-2
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Tray	SS00871000

## SETM0902-CT/MR Ring & Tandem Applicator Combo 26 mm Set, for Varian GammaMed™ transfer tubes\*

Qty.	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 26 mm	0902-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	0902-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	0902-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	0902-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 26 mm	0902-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	0902-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	0902-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	0902-45-6

## Continued SETM0902-CT/MR Ring & Tandem Applicator Combo 26 mm Set, for VarianGammaMed™ transfer tubes\*

Qty.	Item	Part number
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 26 mm	0902-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	0902-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	0902-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	0902-60-6
1	Rectal Retractor Assembly	1208-05
1	Build-Up Cap, D = 5 mm	0902-58
1	Build-Up Cap, D = 7.5 mm	0902-53
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Tray	SS00871000

## SETM0820-CT/MR Ring & Tandem Applicator Combo 32 mm Set, for Elekta/Nucletron transfer tubes\*

Qty.	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 32 mm	0820-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	0820-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	0820-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	0820-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 32 mm	0820-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	0820-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	0820-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	0820-45-6
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 32 mm	0820-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	0820-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	0820-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	0820-60-6
1	Rectal Retractor Assembly	1208-05
1	Build-Up Cap, D = 5 mm	0213-63-1
1	Build-Up Cap, D = 7.5 mm	0213-63-2
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Tray	SS00871000

# CT/MR Ring & Tandem Applicator Set

## SETM0903-CT/MR Ring & Tandem Applicator Combo 26 mm Set, for Elekta/Nucletron transfer tubes\*

Qty.	Item	Part number
1	CT/MR Ring & Tandem, 30°, Ring Assembly, D = 26 mm	0903-R-30
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 20 mm	0903-30-2
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	0903-30-4
1	CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	0903-30-6
1	CT/MR Ring & Tandem, 45°, Ring Assembly, D = 26 mm	0903-R-45
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	0903-45-2
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	0903-45-4
1	CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 60 mm	0903-45-6
1	CT/MR Ring & Tandem, 60°, Ring Assembly, D = 26 mm	0903-R-60
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 20 mm	0903-60-2
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	0903-60-4
1	CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	0903-60-6
1	Rectal Retractor Assembly	1208-05
1	Build-Up Cap, D = 5 mm	0902-58
1	Build-Up Cap, D = 7.5 mm	0902-53
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Tray	SS00871000

## Optional Items

Qty.	Item	Part number
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01

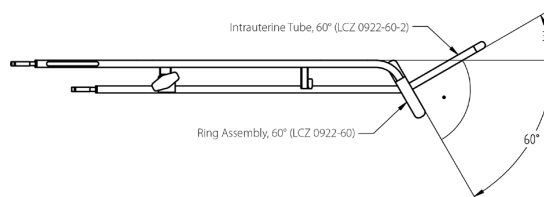
## For replacement orders:

### Please order based on the 'ring angle':

CT/MR Ring & Tandem, 30°, Ring Assembly with CT/MR Ring & Tandem Intrauterine Tube, 30°

CT/MR Ring & Tandem, 45°, Ring Assembly with CT/MR Ring & Tandem Intrauterine Tube, 45°

CT/MR Ring & Tandem, 60°, Ring Assembly with CT/MR Ring & Tandem Intrauterine Tube, 60°



\* The applicator has been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions. Users are responsible for validating applicator compatibility, including treatment planning systems, with their afterloading equipment. Varian is a trade name/trademark of Varian Medical Systems, Inc. Elekta/Nucletron are trade names/trademarks of Elekta AB (publ). Mick and SagiNova are registered trademarks of BEBIG Medical and its subsidiaries. The mentioned products are not available in all markets. Please contact your local BEBIG Medical representative for more information.

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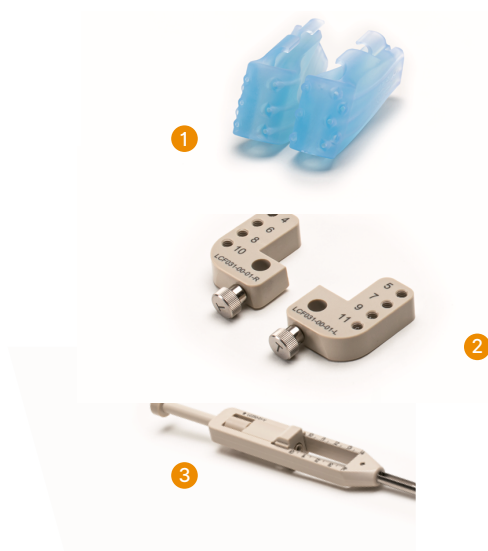
**I-18**

# Tulip Applicator Family

Upgrade your Standard Applicator to a Tulip Applicator with the all new Interstitial Add-on Kits

## Interstitial Add-on Kit Components

- A Needle Guide (1), which is attached to the existing ring or ovoid tube of the gynecological applicator. The Needle Guide provides the user with secure and accurate needle guidance as it is positioned near the target volume. They are available with different guiding angles to cover different target areas in the cervix or parametrium. Please select the respective variant based on the need of the patient using the instructions for use.
- The Needle Template (2) is attached on the proximal end of the ring or ovoid tube. It works together with the interior Needle Guide to ensure that the implantation needles are secured in place during treatment.
- The Needle Insertion Tool (3) is an accessory that supports the user in implanting the needle to the prescribed depth. Once the Needle Guide is in place with the implantation needles and flexible obturators positioned and fixated in the Needle Template, the Needle Insertion Tool is used to ease the controlled insertion and fixation of the needles in the target volume.



## Add-on Kits Small Ring, Mick – to create a Tulip Ring Applicator

(for SETM1402-60 for BEBIG Medical, SETM0902-60 for Varian, SETM0903-60 for Elekta/Nucletron transfer tubes\*\*)

Item	Part number	SET1613-10-01	SET1613-10-02	SET1613-10-03	SET1613-10-04
Needle Guide Small Ring 60°, Mick, compact	LCF013-10-01	1			
Needle Guide Small Ring 60°, Mick, standard	LCF013-10-02		1		
Needle Guide Small Ring 60°, Mick, oblique extended	LCF013-10-03			1	
Needle Guide Small Ring 60°, Mick, lower extended	LCF013-10-04				1
Needle Template Small Ring, Mick	LCF013-00-01	1	1	1	1
Obturator Needle Collets (Titanium) 1.65 mm, bronze - EZ BEBIG (6 pc)	LCZ1105-05-EZ-1.65-1	1	1	1	1
Needle Insertion Tool	LCZ53-01	1	1	1	1

## Add-on Kits Henschke, Mick – to create a Tulip Henschke Applicator

(SETM1408 for BEBIG Medical, SETM0508 for Varian, SETM0826 for Elekta/Nucletron transfer tubes\*\*)

Item	Part number	SET1631-04-01	SET1631-04-02	SET1631-04-03
Needle Guide Henschke, Mick, straight, left	LCF031-04-01-L	1		
Needle Guide Henschke, Mick, straight, right	LCF031-04-01-R	1		
Needle Guide Henschke, Mick, med-curve, left	LCF031-04-02-L		1	
Needle Guide Henschke, Mick, med-curve, right	LCF031-04-02-R		1	
Needle Guide Henschke, Mick, max-curve, left	LCF031-04-03-L			1
Needle Guide Henschke, Mick, max-curve, right	LCF031-04-03-R			1
Needle Template Henschke, Mick, left	LCF031-00-01-L	1	1	1
Needle Template Henschke, Mick, right	LCF031-00-01-R	1	1	1
Obturator Needle Collets (Titanium) 1.65 mm, bronze - EZ BEBIG (6 pc)	LCZ1105-05-EZ-1.65-1	1	1	1
Needle Insertion Tool	LCZ53-01	1	1	1

### Add-on Kits Fletcher, Mick – to create a Tulip Fletcher Applicator

(for SETM1409 for BEBIG Medical, SETM0612 for Varian, SETM0819 for Elekta/Nucletron transfer tubes\*\*)

Item	Part number	SET1621-08-01	SET1621-08-02	SET1621-08-03	SET1621-08-04
Needle Guide Fletcher, Mick, 30° IU, left	LCF021-08-01-L	1			
Needle Guide Fletcher, Mick, 30° IU, right	LCF021-08-01-R	1			
Needle Guide Fletcher, Mick, standard, left	LCF021-08-02-L		1		
Needle Guide Fletcher, Mick, standard, right	LCF021-08-02-R		1		
Needle Guide Fletcher, Mick, oblique, left	LCF021-08-03-L			1	
Needle Guide Fletcher, Mick, oblique, right	LCF021-08-03-R			1	
Needle Guide Fletcher, Mick, oblique extended, left	LCF021-08-04-L				1
Needle Guide Fletcher, Mick, oblique extended, right	LCF021-08-04-R				1
Needle Template Fletcher, Mick, left	LCF021-00-01-L	1	1	1	1
Needle Template Fletcher, Mick, right	LCF021-00-01-R	1	1	1	1
Obturator Needle Collets (Titanium) 1.65 mm, bronze - EZ BEBIG (6 pc)	LCZ1105-05-EZ-1.65-1	1	1	1	1
Needle Insertion Tool	LCZ53-01	1	1	1	1

### Add-on Kits Fletcher, BEBIG – to create a Tulip Fletcher Applicator

(for SETM0109 CT/MR Fletcher Applicator Set)

Item	Part number	SET1622-08-01	SET1622-08-02	SET1622-08-03	SET1622-08-04
Needle Guide Fletcher, BEBIG, IU, left	LCF022-08-01-L	1			
Needle Guide Fletcher, BEBIG, IU, right	LCF022-08-01-R	1			
Needle Guide Fletcher, BEBIG, standard, left	LCF022-08-02-L		1		
Needle Guide Fletcher, BEBIG, standard, right	LCF022-08-02-R		1		
Needle Guide Fletcher, BEBIG, oblique, left	LCF022-08-03-L			1	
Needle Guide Fletcher, BEBIG, oblique, right	LCF022-08-03-R			1	
Needle Guide Fletcher, BEBIG, oblique extended, left	LCF022-08-04-L				1
Needle Guide Fletcher, BEBIG, oblique extended, right	LCF022-08-04-R				1
Needle Template Fletcher, BEBIG, left	LCF022-00-01-L	1	1	1	1
Needle Template Fletcher, BEBIG, right	LCF022-00-01-R	1	1	1	1
Obturator Needle Collets (Titanium) 1.65 mm, bronze - EZ BEBIG (6 pc)	LCZ1105-05-EZ-1.65-1	1	1	1	1
Needle Insertion Tool	LCZ53-01	1	1	1	1

#### Required Items

Item	Part number	All Sets
Plastic Needle, sterile, D = 1.65 mm, L = 300 mm	LLA300-KB	1
Alternative: Plastic Needle, sterile, D = 1.7 mm, L = 300 mm**	LLA300-K	
CT/MR Flexible Obturator for 300 mm Needle, D=1.1 mm, EZ BEBIG	LLH03-300	5

#### Optional Items

Item	Part number	All Sets
Sterilization Box, 381 x 254 x 38 mm***	LLZ05-01	1
Basket with lid for cleaning and sterilizing of small parts, 121 x 73 x 36 mm****	LLZ07-01	1

# CT/MR 2/3 Channel Endometrial Applicator Sets

SETM1405, SETM0917, SETM0916



Innovative technology and enhanced clinical advantages that facilitate CT and MR based brachytherapy planning.

## Endometrium

### Simplicity

The CT/MR 2/3 Channel Endometrial Applicator is designed for simplicity, even in the most advanced settings. It enables accurate and complete treatment with multiple lateral intrauterine tube spread distances and the ability to use a single applicator as either a 2 or 3 channel set. The single bracket connects all 3 intrauterine tubes with one lock knob and the key and lock design ensures proper lateral tube alignment.

### Flexibility

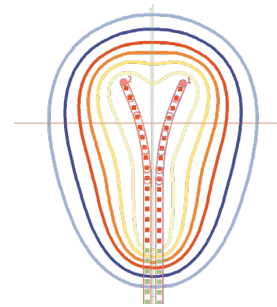
The CT/MR 2/3 Channel Endometrial Applicator is available in 3 cm or 5 cm configurations, both of which can be used as either 2 or 3 channel applicators to effectively treat a variety of anatomies and disease states.

### Reliability

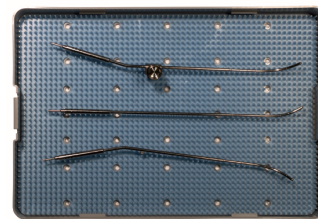
The titanium construction with laser welded connections allows for enhanced stability and torque resistance. The key and lock design ensures proper lateral tube alignment in every case.

### Features

- Autoclavable components
- Expected lifetime is 5 years
- Configurations for 3 cm and 5 cm spread
- 3.2 mm tube diameter
- Substantial dose coverage with a single set enabling two or three intrauterine tube configurations
- Simple, key lock bracket connection
- Applicator available with connections for BEBIG Medical afterloaders, Varian and Elekta/Nucletron transfer tubes\*



Isodose for 2-channel configuration



Sterilization box with select 2/3 Channel Endometrial Applicator Combo Set components

# CT/MR 2/3 Channel Endometrial Applicator Sets

## SETM1405-CT/MR 2/3 Channel Endometrial Applicator Combo Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 3 cm	LCZ1405-R-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 3 cm	LCZ1405-L-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 3 cm	LCZ1405-IU-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 5 cm	LCZ1405-R-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 5 cm	LCZ1405-L-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 5 cm	LCZ1405-IU-5
1	Sealing Caps, (10 pcs each)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm**	LCZ96-1522A

## SETM1405-3-CT/MR 2/3 Channel Endometrial Applicator 3 cm Spread Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 3 cm	LCZ1405-R-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 3 cm	LCZ1405-L-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 3 cm	LCZ1405-IU-3
1	Sealing Caps, (10 pcs each)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm**	LCZ96-1522A

## SETM1405-5-CT/MR 2/3 Channel Endometrial Applicator 5 cm Spread Set, for BEBIG Medical afterloaders

Qty.	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 5 cm	LCZ1405-R-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 5 cm	LCZ1405-L-5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 5 cm	LCZ1405-IU-5
1	Sealing Caps, (10 pcs each)	LAZ17-03
1	Stainless Steel Ruler, L = 15 cm	LCZ7610
1	Sterilization Box, 381 x 254 x 38 mm**	LCZ96-1522A

## Required Items SETM1405, SETM1405-3, SETM1405-05

Qty.	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: green, Channel: 1	LAF1000-1
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: yellow, Channel: 2	LAF1000-2
1	Transfer Tube, D = 3 mm, L = 1000 mm, Color code: blue, Channel: 3	LAF1000-3

## SETM0917, for Varian transfer tubes\*

Qty.	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 3 cm	0917-03-R3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 3 cm	0917-03-L3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 3 cm	0917-04-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 5 cm	0917-03-R5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 5 cm	0917-03-L5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 5 cm	0917-04-5
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A

## SETM0916, for Elekta/Nucletron transfer tubes\*

Qty.	Item	Part number
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 3 cm	0916-03-R3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 3 cm	0916-03-L3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 3 cm	0916-04-3
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 5 cm	0916-03-R5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 5 cm	0916-03-L5
1	CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 5 cm	0916-04-5
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Stainless Steel Ruler, L = 15 cm	7610
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A

\* The applicator has been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions. Users are responsible for validating applicator compatibility, including treatment planning systems, with their afterloading equipment. Varian is a trade name/trademark of Varian Medical Systems, Inc. Elekta/Nucletron are trade names/trademarks of Elekta AB (publ). \*\* Manufactured by PST Plastic Sterilizing Trays Corporation. Mick is a registered trademark of BEBIG Medical and its subsidiaries. The mentioned products are not available in all markets. Please contact your local BEBIG Medical representative for more information.

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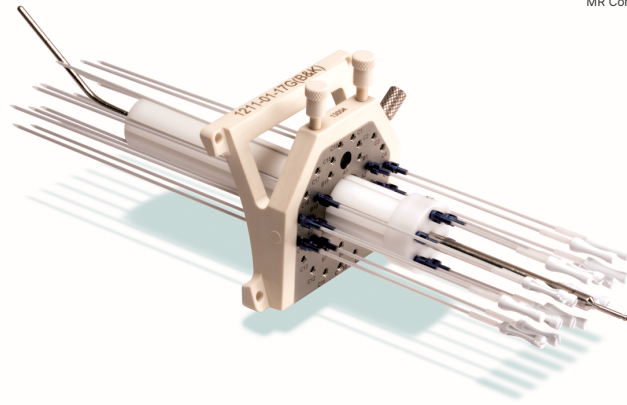
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# CT/MR M.A.C. Interstitial GYN Template Sets

SETM1506-XX, SETM1507-XX, SETM1211-XX,  
SETM1505-XX



Facilitates advanced CT and MR based planning.

Vagina, Cervix, Endometrium

## Simplicity

The detachable template and optional intrauterine tube design enables quick setup and simplifies cleaning. Concentric needle channels allow efficient planning and treatment, and the cervical stop enhances repeatability, while reducing the risk of uterus perforation.

## Flexibility

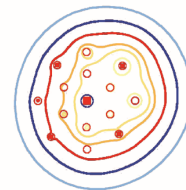
The CT/MR M.A.C. Set features a template design with an optional intrauterine tube, enabling complete or targeted treatment of the vagina, cervix, endometrium and parametrium. The set, named for the Mick-Alektiar-Cohen collaboration, is available with 36 needle channels and a variety of diameters to easily integrate the system into your current practice. 30° and 0° intrauterine tube and needle-only configurations offer an effective treatment of a variety of anatomies and diseases. Concentric needle channels provide targeted unilateral or bilateral parametrial needle placement which are individually fixed into place by locking collets.

## Reliability

The titanium insert construction and collets with PPSU body allow for enhanced stability, while the keyed interfaces ensure consistent alignment of channels and needles.

## Features

- Autoclavable components
- Expected lifetime is 5 years
- MR conditionality allows for 1.5T or 3T
- Enhanced control of needle placement with 36 standard
- Available in channel diameters for 15.5G, 17G, 18G, 1.65 mm and 2.0 mm needles
- Contoured shape to fit patient perineum



Isodose



Obturator needle collets



Template needle collets



# CT/MR M.A.C. Interstitial GYN Template Sets

## SETM1506-XX, for BEBIG Medical transfer tubes\*

Qty.	Item	Part number
1	CT/MR M.A.C. Intrauterine Tube, straight (Titanium)	LCZ1506-ST
1	CT/MR M.A.C. Intrauterine Tube, medium curve (Titanium)	LCZ1506-MD
1	CT/MR M.A.C. Intrauterine Tube, maximum curve (Titanium)	LCZ1506-MX
1	M.A.C. Interstitial GYN Template (Body)	LCZ1506-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1506-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Cervical Stop	LCZ0508-10
1	Stainless Steel Allen Wrench	LCZ7311
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Sterilization Box, 381 x 254 x 38 mm**	LCZ96-1522A
<b>Choose one Vaginal Obturator based on needle size (XX)</b>		
1	Vaginal Obturator, 17G, D = 2.5 cm, L = 14 cm	LCZ0918-15-17
1	Vaginal Obturator, 1.65 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-1.65
1	Vaginal Obturator, 2.0 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-2.0
<b>Choose one Obturator Needle Collets Set based on needle size (XX)</b>		
1	Obturator Needle Collets (Titanium), sea-foam, 17G, (6 pcs)	LCZ1105-05-EZ-17
1	Obturator Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-05-EZ-1.65
1	Obturator Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1211-05-2.0
<b>Choose one Template Needle Collets Set based on needle size (XX)</b>		
1	Template Needle Collets (Titanium), seafoam, 17G, (36 pcs)	LCZ1105-01-EZ-17
1	Template Needle Collets (Titanium), bronze, 1.65 mm, (36 pcs)	LCZ1105-01-EZ-1.65
1	Template Needle Collets (Titanium), green, 2.0 mm, (36 pcs)	LCZ1105-01-2.0



BEBIG Medical SagiNova® afterloader

## SETM1507-XX, for any transfer tube\*/\*\*\*

Qty.	Item	Part number
1	M.A.C. Interstitial GYN Template (Body)	LCZ1507-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	LCZ1507-03
1	Vaginal Obturator Lock Knob	LCZ1211-12
1	Mounting Pegs, (2 pcs)	LCZ1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	LCZ1205-12
1	Titanium Collet Wrench	LCZ1205-02
1	Allen Wrench (Titanium)	LCZ1205-06
1	Sterilization Box, 381 x 254 x 38 mm**	LCZ96-1522A
<b>Choose one Vaginal Obturator based on needle size (XX)</b>		
1	Vaginal Obturator, 15.5G, D = 2.5 cm, L = 14 cm	LCZ0918-15-15.5
1	Vaginal Obturator, 17G, D = 2.5 cm, L = 14 cm	LCZ0918-15-17
1	Vaginal Obturator, 18G, D = 2.5 cm, L = 14 cm	LCZ0918-15-18
1	Vaginal Obturator, 1.65 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-1.65
1	Vaginal Obturator, 2.0 mm, D = 2.5 cm, L = 14 cm	LCZ0918-15-2.0
<b>Choose one Obturator Needle Collets Set based on needle size (XX)</b>		
1	Obturator Needle Collets (Titanium), gray, 15.5G, (6 pcs)	LCZ1211-05-15.5
1	Obturator Needle Collets (Titanium), blue, 17G, (6 pcs)	LCZ1211-05-17
1	Obturator Needle Collets (Titanium), sea-foam, 17G, (6 pcs)	LCZ1105-05-EZ-17
1	Obturator Needle Collets (Titanium), gold, 18G, (6 pcs)	LCZ1211-05-18
1	Obturator Needle Collets (Titanium), magenta, 1.65 mm, (6 pcs)	LCZ1211-05-1.65
1	Obturator Needle Collets (Titanium), bronze, 1.65 mm, (6 pcs)	LCZ1105-05-EZ-1.65
1	Obturator Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	LCZ1211-05-2.0
<b>Choose one Template Needle Collets Set based on needle size (XX)</b>		
1	Template Needle Collets (Titanium), gray, 15.5G, (36 pcs)	LCZ1105-01-15.5
1	Template Needle Collets (Titanium), blue, 17G, (36 pcs)	LCZ1105-01-17
1	Template Needle Collets (Titanium), sea-foam, 17G, (36 pcs)	LCZ1105-01-EZ-17
1	Template Needle Collets (Titanium), gold, 18G, (36 pcs)	LCZ1105-01-18
1	Template Needle Collets (Titanium), magenta, 1.65 mm, (36 pcs)	LCZ1105-01-1.65
1	Template Needle Collets (Titanium), bronze, 1.65 mm, (36 pcs)	LCZ1105-01-EZ-1.65
1	Template Needle Collets (Titanium), green, 2.0 mm, (36 pcs)	LCZ1105-01-2.0

# CT/MR M.A.C. Interstitial GYN Template Sets

## Required Items SETM1506-EZ-17, SETM1507-EZ-17

Qty.	Item	Part number
1	Disposable Steel Needle Set	SET0052
20	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

## Required Items SETM1506-EZ-1.65

Qty.	Item	Part number
1	Plastic Needle Set	SET0012
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

## Required Items SETM1506-EZ-2.0

Qty.	Item	Part number
20	Plastic Needle, sterile, D = 2.0 mm, L = 250 mm, 15G	LLA250-K15
5	CT/MR Obturator for 15G Plastic Needle, sterile, L = 250 mm	LLH04-250B15
20	Easy Click Transfer Tube 6F, D = 3 mm, L = 1000 mm	LAG1000-6F
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

## Required Items SETM1507-EZ-1.65

Qty.	Item	Part number
1	Plastic Needle Set	SET0012
20	Easy Click Transfer Tube, D = 3 mm, L = 1000 mm	LAG1000

## SETM1211-XX, for Varian transfer tubes\*\*\*\*

Qty.	Item	Part number
1	CT/MR M.A.C. Intrauterine Tube, straight (Titanium)	1211-ST
1	CT/MR M.A.C. Intrauterine Tube, medium curve (Titanium)	1211-MD
1	CT/MR M.A.C. Intrauterine Tube, maximum curve (Titanium)	1211-MX
1	M.A.C. Interstitial GYN Template (Body)	1211-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	1211-03
1	Vaginal Obturator Lock Knob	1211-12
1	Mounting Pegs, (2 pcs)	1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	1205-12
1	Titanium Collet Wrench	1205-02
1	Allen Wrench (Titanium)	1205-06
1	Cervical Stop	0508-10
1	Stainless Steel Allen Wrench	7311
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A

### Choose one Vaginal Obturator based on needle size (XX)

1	Vaginal Obturator, 15.5G, D = 2.5 cm, L = 14 cm	0918-15-15.5
1	Vaginal Obturator, 17G, D = 2.5 cm, L = 14 cm	0918-15-17
1	Vaginal Obturator, 18G, D = 2.5 cm, L = 14 cm	0918-15-18
1	Vaginal Obturator, 1.65 mm, D = 2.5 cm, L = 14 cm	0918-15-1.65
1	Vaginal Obturator, 2.0 mm, D = 2.5 cm, L = 14 cm	0918-15-2.0

### Choose one Obturator Needle Collets Set based on needle size (XX)

1	Obturator Needle Collets (Titanium), gray, 15.5G, (6 pcs)	1211-05-15.5
1	Obturator Needle Collets (Titanium), blue, 17G, (6 pcs)	1211-05-17
1	Obturator Needle Collets (Titanium), gold, 18G, (6 pcs)	1211-05-18
1	Obturator Needle Collets (Titanium), magenta, 1.65 mm, (6 pcs)	1211-05-1.65
1	Obturator Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	1211-05-2.0

### Choose one Template Needle Collets Set (36 pcs) based on needle size (XX)

6	Template Needle Collets (Titanium), gray, 15.5G, (6 pcs)	1105-01-15.5
6	Template Needle Collets (Titanium), blue, 17G, (6 pcs)	1105-01-17
6	Template Needle Collets (Titanium), gold, 18G, (6 pcs)	1105-01-18
6	Template Needle Collets (Titanium), magenta, 1.65 mm, (6 pcs)	1105-01-1.65
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	1105-01-2.0

# CT/MR M.A.C. Interstitial GYN Template Sets

## SETM1505-XX, for Elekta/Nucletron transfer tubes<sup>\*/\*\*\*</sup>

Qty.	Item	Part number
1	CT/MR M.A.C. Intrauterine Tube, straight (Titanium)	1505-ST
1	CT/MR M.A.C. Intrauterine Tube, medium curve (Titanium)	1505-MD
1	CT/MR M.A.C. Intrauterine Tube, maximum curve (Titanium)	1505-MX
1	M.A.C. Interstitial GYN Template (Body)	1505-01
1	M.A.C. Interstitial GYN Template (Titanium Insert)	1505-03
1	Vaginal Obturator Lock Knob	1211-12
1	Mounting Pegs, (2 pcs)	1205-03
1	Mounting Bracket Lock Knobs, (2 pcs)	1205-12
1	Titanium Collet Wrench	1205-02
1	Allen Wrench (Titanium)	1205-06
1	Cervical Stop	0508-10
1	Stainless Steel Allen Wrench	7311
1	Sterilization Caps, (10 pcs)	SRC093-12
1	Sterilization Box, 381 x 254 x 38 mm**	96-1522A
Choose one Vaginal Obturator based on needle size (XX)		
1	Vaginal Obturator, 15.5G D = 2.5 cm, L = 14 cm	0918-15-15.5
1	Vaginal Obturator, 17G D = 2.5 cm, L = 14 cm	0918-15-17
1	Vaginal Obturator, 18G D = 2.5 cm, L = 14 cm	0918-15-18
1	Vaginal Obturator, 1.65 mm D = 2.5 cm, L = 14 cm	0918-15-1.65
1	Vaginal Obturator, 2.0 mm D = 2.5 cm, L = 14 cm	0918-15-2.0
Choose one Obturator Needle Collets Set based on needle size (XX)		
1	Obturator Needle Collets (Titanium), gray, 15.5G, (6 pcs)	1211-05-15.5
1	Obturator Needle Collets (Titanium), blue, 17G, (6 pcs)	1211-05-17
1	Obturator Needle Collets (Titanium), gold, 18G, (6 pcs)	1211-05-18
1	Obturator Needle Collets (Titanium), magenta, 1.65 mm, (6 pcs)	1211-05-1.65
1	Obturator Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	1211-05-2.0

## Continued SETM1505-XX, for Elekta/Nucletron transfer tubes<sup>\*/\*\*\*</sup>

Qty.	Item	Part number
Choose one Template Needle Collets Set (36 pcs) based on needle size (XX)		
6	Template Needle Collets (Titanium), gray, 15.5G, (6 pcs)	1105-01-15.5
6	Template Needle Collets (Titanium), blue, 17G, (6 pcs)	1105-01-17
6	Template Needle Collets (Titanium), gold, 18G, (6 pcs)	1105-01-18
6	Template Needle Collets (Titanium), magenta, 1.65 mm, (6 pcs)	1105-01-1.65
6	Template Needle Collets (Titanium), green, 2.0 mm, (6 pcs)	1105-01-2.0

## Optional Items

Qty.	Item	Part number
1	No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01
1	Basket with lid for cleaning and sterilizing of small parts, 121 x 73 x 36 mm****	LLZ07-01
Choose Vaginal Obturator based on needle size		
1	Vaginal Obturator, 15.5G, D = 2.5 cm, L = 19 cm	LCZ0918-19-15.5
1	Vaginal Obturator, 17G, D = 2.5 cm, L = 19 cm	LCZ0918-19-17
1	Vaginal Obturator, 18G, D = 2.5 cm, L = 19 cm	LCZ0918-19-18
1	Vaginal Obturator, 1.65 mm, D = 2.5 cm, L = 19 cm	LCZ0918-19-1.65
1	Vaginal Obturator, 2.0 mm, D = 2.5 cm, L = 19 cm	LCZ0918-19-2.0
Choose Vaginal Obturator Needle Guide based on needle size		
1	Vaginal Obturator Needle Guide, 15.5G	LCZ0918-06-15.5
1	Vaginal Obturator Needle Guide, 17G	LCZ0918-06-17
1	Vaginal Obturator Needle Guide, 18G	LCZ0918-06-18
1	Vaginal Obturator Needle Guide, 1.65 mm	LCZ0918-06-1.65
1	Vaginal Obturator Needle Guide, 2.0 mm	LCZ0918-06-2.0

\* The CT/MR M.A.C. Interstitial GYN Template has been tested for compatibility with the following accessories based on stated nominal dimensions. Users should validate that their particular needle is compatible with the template and collet prior to use.

- Plastic & metal needles of the indicated diameter including: 15.5G, 17G, 18G, 1.65 mm (16G) and 2.0 mm

\*\* Manufactured by PST Plastic Sterilizing Trays Corporation

\*\*\* The intrauterine tubes have been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions. Users are responsible for validating intrauterine tube compatibility, including treatment planning systems, with their afterloading equipment.

Varian is a trade name/trademark of Varian Medical Systems, Inc. Elekta/Nucletron are trade names/trademarks of Elekta AB (publ).

\*\*\*\*Manufactured by Kögel GmbH

Mick and SagiNova are registered trademarks of BEBIG Medical and its subsidiaries.

The mentioned products are not available in all markets. Please contact your local BEBIG Medical representative for more information.

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# Valencia Applicator Sets

## SET1503, SET1504



A skin applicator, comprising a unique combination of a dose flattening filter as well as the adapted treatment planning and treatment delivery systems SagiPlan® and SagiNova®.

### Skin

#### Non-invasive Brachytherapy for Skin Cancer

The Valencia Applicator design allows for non-invasive brachytherapy of skin cancer<sup>1</sup>, which can be performed in a few fractions with high dose rate iridium-192 sources

#### Dose Flattening Filter

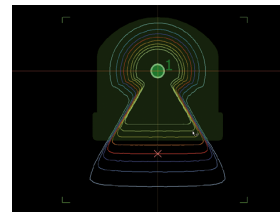
The tungsten-shielded applicator provides a flat dose profile to the skin to provide a more uniform dose to the target area.

#### Integration with SagiPlan®



SagiPlan® offers a realistic (Monte Carlo based) 3D dose distribution using a modified TG-43 dose calculation algorithm. Thanks to a special skin dose prescription feature, dwell times are automatically determined based on the prescribed dose and depth. The integrated support of the Valencia Applicator enables to plan, treat and report in one system without the need for extra calculations in proprietary calculation tools. SagiPlan® gives the user the ability to evaluate and control dose distribution through ultrasound image overlay.

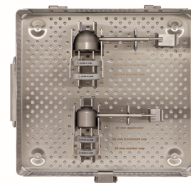
- Ultrasound image overlay function
- Applicator available with connections for BEBIG Medical afterloaders and Varian transfer tubes<sup>3</sup>



Isodose

#### Features

- 20 mm and 30 mm versions with horizontal source channel
- Automatic dwell time determination by input of target dose and target depth
- Dose flattening filter<sup>2</sup>
- Automatic length check in SagiNova® to assure the correct applicator is connected
- Robust transport and storage tray



Valencia Applicator Transport and Storage Tray



# Valencia Applicator Sets

## SET1503, for BEBIG Medical transfer tubes<sup>4</sup>

Qty.	Item	Part number
1	Valencia Applicator, D = 20 mm	LCT1503-20 (BVH-20)
1	Valencia Applicator, D = 30 mm	LCT1503-30 (BVH-30)
1	Cap with Marker Ring, D = 20 mm	LCZ1503-21
1	Cap with Marker Ring, D = 30 mm	LCZ1503-31
1	Cap without Marker Ring, D = 20 mm	LCZ1503-22
1	Cap without Marker Ring, D = 30 mm	LCZ1503-32
1	Sealing Caps, (10 pcs)	LAZ17-03
1	Transport and Storage Tray	LCZ1503-11

## SET1504, for Varian GammaMedplus™ transfer tubes<sup>3</sup>

Qty.	Item	Part number
1	Valencia Applicator, D = 20 mm	LCT1503-20 (BVH-20)
1	Valencia Applicator, D = 30 mm	LCT1503-30 (BVH-30)
1	Cap with Marker Ring, D = 20 mm	LCZ1503-21
1	Cap with Marker Ring, D = 30 mm	LCZ1503-31
1	Cap without Marker Ring, D = 20 mm	LCZ1503-22
1	Cap without Marker Ring, D = 30 mm	LCZ1503-32
1	Sealing Caps, (10 pcs)	SRC093-12
1	Transport and Storage Tray	LCZ1504-11

## Required Items SET1503

Qty.	Item	Part number
1	Transfer Tube, D = 3 mm, L = 1000 mm	LAF1000

## Optional Items

Qty.	Item	Part number
1	Replacement Caps (LCZ1503-21, LCZ1503-31, LCZ1503-22, LCZ1503-32)	LCZ1503-04



Medical BEBIG SagiNova® afterloader

<sup>1</sup> For use on intact skin.

<sup>2</sup> G. Anagnostopoulos, M. Andrassy, D. Baltas, The Bebig Valencia-type skin applicators: Dosimetric study and implementation of a dosimetric hybrid technique, Brachytherapy, Published online: June 14, 2017

<sup>3</sup> The applicator has been tested for mechanical compatibility with the indicated manufacturer's transfer tubes to confirm there are no internal source obstructions. Users are responsible for validating applicator compatibility, including treatment planning systems, with their afterloading equipment.

Varian and GammaMed are trade names/trademarks of Varian Medical Systems, Inc.

<sup>4</sup> Currently, the Valencia Applicator Set is not compatible with MultiSource and GyneSource.

SagiNova is a registered trademark of BEBIG Medical and its subsidiaries.

The mentioned products are not available in all markets. Please contact your local BEBIG Medical representative for more information.

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# Fact Sheets



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Technology & System

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## Reliability, Safety, and Performance in HDR Brachytherapy

### SagiNova®

The SagiNova® HDR afterloader was designed to address today's needs for HDR brachytherapy applications regarding safety, seamless workflows, and cost efficiency.



Unique product features, paired with decades of brachytherapy experience, characterize the system.

### Miniaturized Iridium-192 and Cobalt-60 Source

BEBIG Medical provides the choice of two isotopes, Ir-192 and Co-60, according to individual institutional needs and preferences. Both sources are equivalent in size and have been in clinical use for more than 10 years. Due to the considerably longer half-life of five years and a certified 100,000 source transfers, more and more institutes choose the Co-60 source as it requires time to perform QA procedures related to source exchanges only every five years.



improved patient safety and peace of mind for clinicians when treating body sites such as head & neck, breast, and skin with flexible catheters or breast balloons.

### 50 Channel Support

As brachytherapy has evolved to more sophisticated applications, BEBIG Medical provides an afterloader to support even the most complex treatments with up to 50 channels.

### Integrated Real-Time In-Vivo Dosimetry System

The unique In-Vivo Dosimetry System allows direct independent monitoring of doses to rectum and bladder at the control console alongside treatment information. Dose limit values can be defined via the SagiNova treatment control software and warnings are displayed if bladder or rectum dose limits are exceeded. The complete data is integrated in the treatment report for a convenient documentation. Since the system is operated directly from the SagiNova treatment control station, In-Vivo Dosimetry is easily integrated into the treatment process with no additional equipment or screens.

### Round-the-Clock Service Excellence

The BEBIG Medical technical support, including real-time remote desktop assistance, is available globally to ensure a timely response and optimal clinic uptime. To meet individual institutional needs, tailor-made service and support plans as well as education and training programs are available.

### QAssist – Guidance in Quality Assurance

The highly customizable tool QAssist supports physicists by defining and running site specific quality assurance protocols. Guiding the performance of these protocols, QAssist ensures streamlined and well documented quality assurance.



### NEW in Version 2.1

BEBIG Medical is committed to providing regular updates to the SagiNova software in order to incorporate customer feedback in a timely manner. SagiNova version 2.1 is the latest update, adding editable test plans for quicker QA plan management, userdefined dwell position offsets for more individual quality control measures, editable user role names, user-defined audio feedback for various system statuses, an integrated source decay table and a source dongle to speed up source exchanges.

### Automatic Length Measurement

By choosing an applicator in SagiPlan, the length of the applicator and the overall length of the application are digitally transferred to the afterloader without requiring any manual input. Hence, the afterloader is able to validate the correct overall length per channel prior to each source movement. SagiNova measures the internal length of the catheter or applicator allowing the user to review and complete acceptance while the unit completes a verification of the length before the treatment is delivered. The ultimate benefits of the Automatic Length Measurement are



### Main Features

- Ability to choose between widely used Ir-192 or long-lasting Co-60 source
- DICOM data import from brachytherapy planning system via network or USB flash drive
- Display and control of entire treatment process
- Recording and DICOM export of entire treatment protocol
- Synchronization of electronic timers in control and treatment unit with better than 50 ms accuracy
- Support of up to 100 dwell points for treatment length of 600 mm per channel (1400 mm drive-out length)
- Minimum stepping distance of 1 mm
- Source positioning accuracy of +/-1 mm and a resolution of 0.1 mm and 10 ms
- Continuation of interrupted treatments e. g. after an external power failure
- Support of up to 50 channels per fraction
- Optimized user-friendly GUI and intuitive design for streamlined workflow

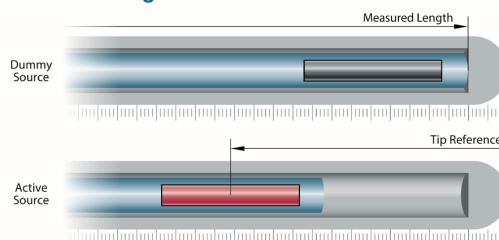
### Safety Features

- Highly customizable quality assurance system QAssist
- Video camera for source position verification (video and photo)
- Automatic length verification for precise measurement of applicator length
- Color coding for afterloader channels, applicators, and transfer tubes
- Battery backup system for safe source retraction in the event of a power failure
- Hand crank for power independent emergency source retraction
- Two independent monitoring systems for treatment times
- Integrated radiation detector
- Two-key authorization on treatment control panel
- User management incl. role concept and individual passwords
- Display of patient photo from treatment plan
- Internal shielding container for storage of up to 81.4 GBq Co-60 or 481 GBq Ir-192

### Technical Data

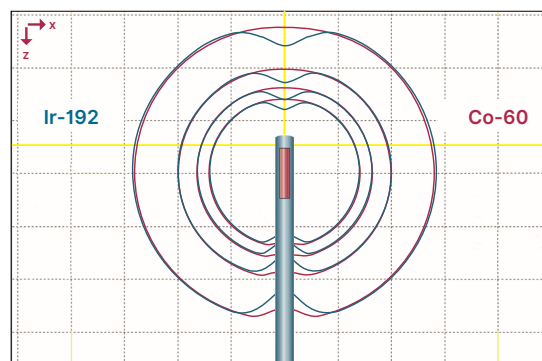
<b>Dimensions</b>	(W x D x H) 552 x 654 x 1000 mm
<b>Weight</b>	Co-60 / Ir-192 version 267 kg Ir-192 version 155 kg
<b>Voltage range</b>	100V-240V, 50/60 Hz, 1/N/PE
<b>Classification</b>	Class I, Type B equipment according to IEC 60601-1, Section 6
<b>Dose rate at 5cm distance</b>	For Co-60 < 0.1 mSv/h For Ir-192 < 0.01 mSv/h Radiation shielding for both sources fulfill IEC 60601-2-17
<b>Radioactive sources</b>	≤ 81.4 GBq Co-60 Ø 1.0 mm ≤ 481 GBq Ir-192 Ø 0.9 mm
<b>Active source component</b>	Ø 0.5 x 3.5 mm Co-60 Ø 0.6 x 3.5 mm Ir-192

### Automatic Length Measurement



The dummy source measures the length of the complete channel prior to each source movement to allow for the verification of the correct channel length. The precisely measured length of each individual channel is automatically used for an accurate positioning of the active source relative to the tip reference.

### Anisotropy



Anisotropy of Co-60 (red lines) and Ir-192 (blue lines)

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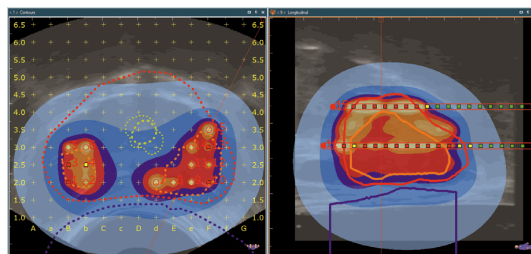
**K-3**



## One Platform for HDR Treatment Planning

### SagiNova®

The comprehensive treatment planning software (TPS) for all HDR applications, including real-time prostate treatment.



One TPS for all HDR brachytherapy treatments, with modern user interface and advanced planning features for an efficient and fast workflow.

### Ease of Use

SagiPlan provides an intuitive multilingual user interface. The customized layout and configuration of parameters for user preferences and treatment settings make planning both fast and easy.

### Multimodality Imaging and Image Registration

SagiPlan supports various image formats and modalities, including CT, MR and radiographic films. With advanced image registration methods (manual, automatic, landmarks), data can be fused and displayed simultaneously for reliable target definition and plan evaluation.

### Applicator Reconstruction

All applicators delivered by BEBIG Medical and Mick Radio-Nuclear Instruments are implemented in the SagiPlan Applicator Library with full 3D geometric data, allowing for easy, fast and accurate reconstruction. Flexible applicators are easily reconstructed with automatic image processing based on CT image data.

### Full and Flexible Connectivity

SagiPlan provides full DICOM connectivity features with DICOM RT images, structures, plan and dose data. The DICOM Query and Retrieve features, together with the DICOM RT plan export to SagiNova, enable a seamless workflow.

### Plan Templates

Plan Templates offer the possibility of saving 3D arrangements of applicators, needles, catheters and control points. Along with stored dwell times, the Plan Templates are ready to use in new, similar studies to significantly speed up the planning process.

### Extensive Dose Calculation and Optimization Features

SagiPlan is compliant with AAPM TG-43 and the HEBD Working Group recommendations. It enables dose calculations for both cobalt-60 and iridium-192 sources with individual applicator at-

tenuation and shielding. Manual and automatic dose optimization can be achieved with a variety of tools, such as manual isodose shaping, geometric optimization and inverse planning, for reliable control of the target coverage. The fast simulated annealing algorithm optimizes dwell times with respect to user-defined dose objectives.

### Integrated Prostate Module

The Prostate Module is fully integrated into SagiPlan and enables interactive real-time planning of the prostate in the same user interface.



### Unique BED and EQD2 Feature

SagiPlan calculates the biologically effective dose (BED) and the equivalent dose in 2-Gy fractions (EQD2) for structures and control points with individually assignable  $\alpha/\beta$  ratios, which enables the easy assessment of HDR fractionation with the calculated total BED and total EQD2 over all fractions. Combination therapies of EBRT and HDR can be planned by importing EBRT plans via DICOM import and considering them in the Total BED and Total EQD2 calculations. A unique BED monitor will instantly update BED/EQD2 calculations with every plan change, showing respective constraint fulfillment at a glance.



### Inverse Irradiation Planning with DVH, BED, EQD2

By means of DVH parameters, which can also be specified directly in BED or EQD2, inverse planning can also be carried out for combined EBRT + HDR radiotherapy.



EBRT plan import



SagiPlan® inverse planning based on BED or EQD2

### User Interface & Access Control

- Multilingual user interface
- User account administration to set privileges
- Plan approval with e-signature

### Connectivity

- DICOM Query and Retrieve, Store SCU and Store SCP functions
- DICOM 3.0 RT import of CT, MR, US, CBCT and PET images, (external beam) plan, structures and dose, as well as DICOM RT export of images, plan, dose and structures
- Support of BMP, JPEG, TIFF, PNG and other image formats
- Support of analog and digital frame grabbers, including a simulator frame grabber and stepper for training purposes
- Ability to perform centralized and distributed planning with server-based patient database and floating licenses
- ATC/RTOG compliant anonymized data export
- Afterloader Co-60 source dongle support

### Contouring

- Continuous, by points, circular or spherical mode
- Contour interpolation and projected structure outline
- Structure editing in arbitrary planes
- Automatic contouring
- 3D VOI modifications in arbitrary planes
- Transfer of structures to other coordinate systems and registered image sets
- Logical Boolean operators for structure generation
- 3D margining tool for isotropic and non-isotropic margins

### Image Registration

- Image fusion for CT, MR, US and PET images
- Manual, landmark-based and automatic image registration

### Reconstruction Techniques

- 2D reconstruction without images, non-isocentric (reconstruction box), isocentric and isocentric with deviation, multiple image sets, manual and automatic pixel determination, corresponding projection lines
- 3D reconstruction on image sequences with and without template, and reconstruction on fused images
- Creation of up to 4 DRRs from CT images at user-defined angles

### Applicators

- All applicators from BEBIG Medical and Mick Radio-Nuclear Instruments available within Applicator Library, including quick search feature
- Reconstruction of applicators in arbitrary planes, including DRR images
- Automatic reconstruction of flexible applicators
- Easy positioning with mouse click, three-point method or coordinate entry
- Hybrid TG-43 dose calculation for the BEBIG Medical Valencia Applicator

### Planning

- Flexible control points positioning by mouse click, coordinates, along the line, within structure volumes and on structure surfaces

- Basal dose points (Paris System) and Manchester-based (A and B points)
- Editing of dwell positions and properties on images, automatic activation based on contours, control points or distance from applicator tip
- Dwell position separation between 1.0–15.0 mm, with activation of any positions, depending on applicator type
- All applicators, control points and dwell position information are saved as Plan Templates

### Dose Calculation and Optimization

- Compliant with AAPM TG-43 and the HEBD Working Group 2012 recommendations
- Approximations for the effect of applicator and shielding attenuations
- Display of source strength and apparent activity for planning vs. calibration date
- Manual editing of dwell times via bars or value entries
- Geometrical and control point-based optimization
- Isodose shaper
- Dose Prescription Protocol

### Inverse Planning

- Inverse planning with fast simulated annealing algorithm based on DVH parameters and BED/EQD2
- Inverse planning also for summation plans

### Dose Evaluation

- Evaluation of isodose lines in any arbitrary plane
- Live dose cursor and hot-cold dose display
- 3D isodose cloud display and 3D surface depiction with dose
- Real-time update of dose-volume histograms and user-defined parameters (V100, D90, D<sub>2cm<sup>3</sup></sub>)
- COIN, dose volume, DNR, overdose volume and dose homogeneity indices are calculated and updated automatically
- Graphical and acoustical dose alerts
- Multiple plan comparison with synchronized dose display
- Customizable report printout
- BED and EQD2 calculation for selected points, organs and Total BED and EQD2 for external beam and brachy-therapy treatments and their summation

### Prostate Module

- Add-on, fully integrated software module
- Includes image registration with live US images with any other image modality
- Includes prostate simulator for demonstration and training purposes
- Automatic needle sorting and labelling according to template position

### User Defaults and Treatment Defaults

- Configurable settings for contouring, isodose line display, applicators, etc. are saved as User Default
- User-defined treatment defaults for respective anatomical sides with fractionation, contouring presets, structure names and DVH parameters for plan analysis

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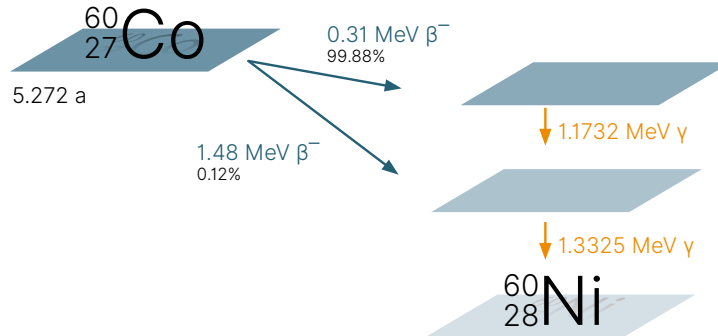
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# Cobalt-60 in HDR Brachytherapy

## Confidence Through Experience

### Cobalt-60

The well established and clinically proven isotope for all HDR brachytherapy treatments.



Cobalt-60 sources are available for BEBIG Medical afterloaders.

### HDR Brachytherapy Started with Cobalt-60

In 1962, Walstam [1] introduced the first concept of a remote afterloader equipped with Co-60. Since its introduction, Co-60 has achieved tremendous success and has continued to evolve to support modern HDR brachytherapy needs. In 2003, BEBIG Medical successfully designed and introduced the first miniaturized Co-60 source. This design, advanced even by today's standards, enables treatment with applicators of the smallest diameters and narrow curvatures. To date, more than 270 BEBIG Medical afterloaders equipped with Co-60 have been installed worldwide and continue to prove their outstanding reliability.

### Clinically Sound with Proven Physics

The Co-60 source is not only clinically [11] [12] [13] [14] well proven, it is physically [2] [3] [6] well understood and extensively analyzed as well. Accordingly, TG-43 data (Dosimetry of interstitial brachytherapy sources: Recommendations of the AAPM Radiation Therapy committee Task Group 43), dosimetric measurements, and Monte Carlo calculations [4] [7] [8] [9] [10] are available and have been implemented in HDRplus [5] and SagiPlan<sup>®</sup>. The treatment planning systems of BEBIG Medical are able to calculate dose distributions of Co-60 for all applicators shielded and unshielded.

### Complete Range of Clinical Applications

Co-60 has been shown to be a good choice for treating gynecological, rectal, prostate, breast, esophagus, skin, and other body sites. BEBIG Medical provides customers with an expansive portfolio of applicators suitable for the use with Co-60 and Ir-192.

### Favorable Dose to Organs at Risk

The treatment with Co-60 leads to lower dose to organs at risk (OAR) than with Ir-192. Due to its higher mean energy of 1.25 MeV, less scatter is produced and therefore, the radial dose function of Co-60 shows slightly smaller values than Ir-192 with 0.35 MeV (see figure 1). This leads to less dose to organs at risk or healthy tissue within approx. 20 cm from the source<sup>1</sup>.

### Source Exchange Period up to 5 Years

Due to the long half-life of Co-60, the source can be used for up to 5 years which means that during the recommended working life of a single Co-60 source, approximately 20 source exchanges of Ir-192 would have to be performed. The significant time saved in performing quality assurance checks after each source exchange makes the use of Co-60 particularly attractive for high volume clinics. Furthermore, Co-60 is the isotope of choice for countries with demanding logistics.

### Treatment Time

The BEBIG Medical Co-60 source is loaded with an activity of up to 81.4 GBq which is significantly lower than an Ir-192 source, with up to 481 GBq. However, the Co-60 dose rate is only slightly lower due to the higher air kerma rate constant (306 vs. 110  $\mu\text{Gy} \cdot \text{m}^2 \cdot \text{GBq}^{-1} \cdot \text{h}^{-1}$ ). Therefore, the total treatment time with Co-60 is only slightly longer than with Ir-192. Nevertheless, if preferred, the source exchange period can be shortened to speed up treatment time.

### Robust Capsule Design

The capsule design of the BEBIG Medical Co-60 source fulfills the demanding regulatory and governmental requirements of EU, North American, and other nations. Moreover, the unique source capsule shows outstanding wear resistance and a low friction factor due to well-engineered plasma nitride hardening. The capsule and the source wire are connected by a hightech laser welding method and designed to stand 100,000 source transfers. This has been proven by stress tests in straight and curved applicators exceeding this figure to ensure safety and long-term precision<sup>2</sup>. With 100,000 cycles in five years, a clinic could have theoretically up to 7 patients a day<sup>3</sup> receiving a 10 channel interstitial treatment or 24 patients a day<sup>3</sup> for the treatment with a three-channel applicator. However, the user is always informed about the current numbers of cycles by the afterloaders software to ensure compliance with the maximum value.

# Cobalt-60 in HDR Brachytherapy

## Radial Dose Function

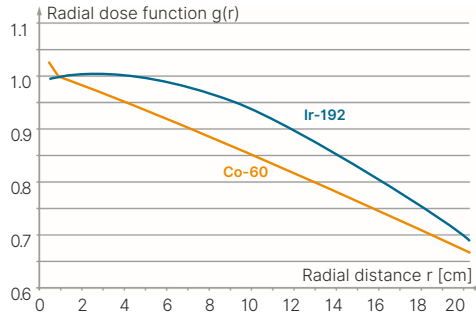


Figure 1: Radial dose functions demonstrate the favorable steep dose fall off of Co-60 compared to Ir-192.

## Certified ISO 2919 Class 65444

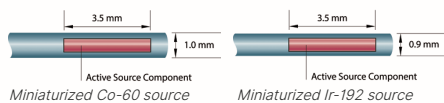
The BEBIG Medical Co-60 source and its capsule have been tested successfully according to ISO 2919 and certified as class 65444. The capsule has proven to withstand a temperature range of -40°C to +800°C, external pressure test up to 170 MPa, impact test of 2 kg, vibration test from 25 Hz to 2000 Hz, and puncture test of 50g.

## Shielding Requirements

Like any medical device utilizing radiation, afterloaders equipped with Co-60 require a shielded treatment room to provide radiation protection. In many cases, customers may choose to install the afterloader in existing bunkers already in use with teletherapy devices to more quickly begin to treat patients. If a new brachytherapy suite is required, BEBIG Medical will provide customers with input on constructional drawings regarding shielding, e.g. wall thickness and materials. Furthermore, BEBIG Medical also can support customers in their efforts to obtain any new licenses needed to satisfy local requirements.

## Possibility to Choose

BEBIG Medical offers the choice between two isotopes for HDR brachytherapy: Co-60 or Ir-192. Should a customer wish to change the isotope from the one initially chosen for initial treatments, BEBIG Medical can make this possible without changing all of the applicators and accessories already purchased.



<sup>1</sup> Dose to organs at risk more than 20 cm distant from the source are negligible (0.2% dose relative to dose at 1 cm). <sup>2</sup> Stress tests were carried out by BEBIG Medical. Documentation is available upon request. <sup>3</sup> Assuming 5 work days per week. <sup>4</sup> This option has to be included in the original order for the afterloader due to different source containers.

## Source Anisotropy

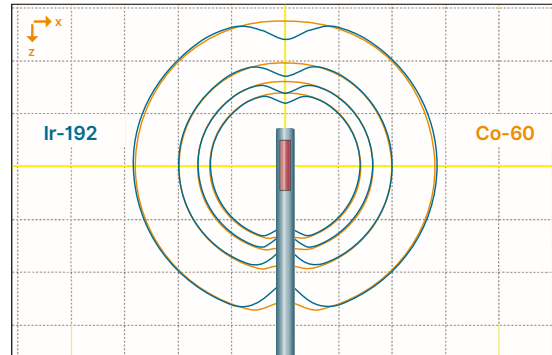


Figure 2: The anisotropy function of Co-60 leads to an advantageous dose distribution closer to the distribution of a point source.

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 [13] Vicharn Lorvidhaya et al, High-Dose-Rate afterloading brachytherapy in carcinoma of the cervix: an experience of 1992 patients, *Int J Radiation Oncology Biol Phys Vol46 No5* (2000) 1185-1191  
 [14] M. Chatani et al, Long term follow-up results of High-Dose-Rate remote afterloading intracavitary radiation therapy for carcinoma of the uterine cervix, *Strahlentherapie und Onkologie Vol170 No5* (1994)

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# In-Vivo Dosimetry with SagiNova®

## Integrated System for In-Vivo Measurement



### In-Vivo Dosimetry System

The integrated and independently working In-Vivo Dosimetry System is operated from the afterloader control software. It facilitates real-time dose monitoring and automatic documentation of the doses to bladder and rectum in the treatment report.

The comfortable In-Vivo Dosimetry System within SagiNova® saves space and eases handling.

### Integrated System

In-vivo dosimetry is an important quality assurance method for HDR brachytherapy of e. g. cervical cancer. It provides information that helps to assure precise, targeted and conformal dose delivery. Studies have shown that in-vivo dosimetry is feasible and can be performed to estimate the dose to the rectum during HDR brachytherapy also using Co-60<sup>1</sup>. SagiNova® is equipped with a multi-channel dosimeter system for in-vivo patient dosimetry during radiation therapy. It is directly integrated in the afterloader and controlled via the SagiNova® control software.

### Dose Monitoring in Rectum and Bladder

The unique system allows direct monitoring of doses to rectum and bladder independently and “live” on the control console during the treatment. Dose limit values can be defined via the SagiNova® treatment control software. Warnings are displayed if bladder or rectum dose limits are exceeded. The data is documented in the treatment report.

### The Probes

The probe for bladder measurements has a diameter of only 3 mm and is used together with a Foley catheter. The flexible rectum probe with five detectors, spaced 15 mm apart from each other, enables the measurement of the dose distribution.

### Calibration<sup>2</sup>

Both probes can be automatically calibrated with SagiNova's quality assurance tool, QAssist, the afterloading calibration phantom and the afterloader source as reference. The built-in software takes the specific calibration geometry into account and makes calibration a one-click solution.

### Phantom

A cylindrical Perspex (PMMA) phantom for the calibration of the semiconductor probes is included in the system. It comes with a tripod and can also be used for the source calibration in combination with a thimble ionization chamber.

### Scientific References

<sup>1</sup> Zaman ZK, et al., Comparison of planned and measured rectal dose in-vivo during high dose rate Cobalt-60 brachytherapy of cervical cancer, *Physica Medica* (2014)

<sup>2</sup> Venselaar, J., Pérez-Calatayud, J. (ed), Calibration of brachytherapy sources, p. 49f, in: *ESTRO Booklet No. 8, A practical guide to quality control of brachytherapy equipment, 2004, Brussels*



Dose measurement at bladder and rectum with semiconductor probes. The connection box system is integrated in the SagiNova® afterloader.



# In-Vivo Dosimetry with SagiNova®

## Set Content SET0214 Set for In-Vivo Dosimetry, integrated in SagiNova®

Quantity	Item	Part number
1	Afterloading Calibration Phantom T9193	1321-3035
1	Multichannel Dosimeter VIVODOS® (built-in device, T10018)	1379-0241
1	Fivefold semiconductor rectum probe T9112	1321-3034
1	Single semiconductor bladder probe T9113	1379-0222
1	AL adapter for rectal probe T9112	1321-3037
1	AL adapter for bladder probe T9113	1379-0227
1	AL adapter for afterloading applicator LAR01-01	1321-3039
1	Tripod for AL calibration phantom L651002	1379-0211
2	AL adapter, blind plug T9193/102	1321-3036
1	AL detector connection box	1379-0233
1	Cable for AL detector connection box	1379-0234

## Absolute Dosimetry Sets

Set	Description
SET0203	Universal dosimeter UNIDOS® E, connecting system M (incl. UNIDOS® E, well-chamber type TM33005)



Plug-in connection for rectum and bladder probe

## Dose Monitoring Displayed on the Control Unit



## Dosimeter Measurements (Gy)

<b>R1</b>	0.73 Gy	<b>R4</b>	0.04 Gy
<b>R2</b>	1.09 Gy	<b>R5</b>	0.02 Gy
<b>R3</b>	0.13 Gy	<b>B1</b>	0.04 Gy
R	Rectum	B	Bladder

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# Register

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# Register by Product Name

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2-Channel Ring Applicator, 60°, D = 30 mm; Type Vienna 0°	LCT43-2	A23
2-Channel Ring Applicator, 60°, D = 30 mm; Type Vienna 5°	LCT43-21	A23
Adapter for Vaginal Cylinder	LC313-22	A7
Allen Wrench (Titanium)	LCZ1205-06	A39, A40, A41
Applicator Clamp with Baseplate	LAZ22-01	A3, A5, A7, A13, A15, A21, H6
Applicator Fixation for Bougie, D = 8 mm	LAZ01-08	D3
Applicator Fixation for Bougie, D = 10 mm	LAZ01-10	D3
Applicator Fixation for Bougie, D = 12 mm	LAZ01-12	D3
Basket with lid for cleaning and sterilizing of small parts, 121 x 73 x 36 mm	LLZ07-01	A42, B6, H8
Bougie for Esophagus, single use, D = 8 mm (24 Fr)	LAZ24-08	D3
Bougie for Esophagus, single use, D = 10 mm (30 Fr)	LAZ24-10	D3
Bougie for Esophagus, single use, D = 12 mm (36 Fr)	LAZ24-12	D3
Breast Template, Triple Plane, 8 mm (Paris), with Fixation Buttons	LLZ20-08	C5
Breast Template, Triple Plane, 8 mm (Paris), without Buttons	LLZ21-08	C3
Breast Template, Triple Plane, 12 mm (Paris), with Fixation Buttons	LLZ20-12	C5
Breast Template, Triple Plane, 12 mm (Paris), without Buttons	LLZ21-12	C3
Breast Template, Triple Plane, 16 mm (Paris), with Fixation Buttons	LLZ20-16	C5
Breast Template, Triple Plane, 16 mm (Paris), without Buttons	LLZ21-16	C3
Breast Template, Triple Plane, 20 mm (Paris), without Buttons	LLZ21-20	C3
Breast Template, Triple Plane, 20 mm (Paris), with Fixation Buttons	LLZ20-20	C5
Ring 32 mm Build-Up Cap, 5.0 mm (black)	LCZ0213-63-1	A29
Ring 26 mm Build-Up Cap, 5.0 mm (black)	LCZ0902-63-1	A30
Ring 32 mm Build-Up Cap, 7.5 mm (white)	LCZ0213-63-2	A29
Ring 26 mm Build-Up Cap, 7.5 mm (white)	LCZ0902-63-2	A30
Build-Up Cap, D = 25 mm	LCZ0904-02-25	A11
Build-Up Cap, D = 30 mm	LCZ0904-02-30	A11
Build-Up Cap, D = 35 mm	LCZ0904-02-35	A11
Build-Up Cap, D = 40 mm	LCZ0904-02-40	A11
Build-Up Caps, 5.0 mm x 5.0 mm, reusable, (2 pcs)	LCZ1305-01-01	A27
Build-Up Caps, 5.0 mm x 7.5 mm, reusable, (2 pcs)	LCZ1305-01-02	A27
Build-Up Caps, 5.0 mm x 10 mm, reusable, (2 pcs)	LCZ1305-01-05	A27
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Build-Up Caps, 7.5 mm x 7.5 mm, reusable, (2 pcs)	LCZ1305-01-04	A27
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Cap with Marker Ring, D = 20 mm	LCZ1503-21	G5
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Cap without Marker Ring, D = 30 mm	LCZ1503-32	G5
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Channel Coding for Needles and Catheters (Channel 1)	LLZ03-01	E5
Channel Coding for Needles and Catheters (Channel 2)	LLZ03-02	E5



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Channel Coding for Transfer Tubes (Set for Channel 1-20)	LLZ04-01	B9, B11, C3, C5, E3, E5, F3, F5, F7, F9, F11
Collet Lock Knob	LCZ1004-22	A9
Collet Sleeve	LCZ1004-21	A9
Connector for Universal Applicator, D = 1.7 mm (EasyClick 5F)	LLS50-5F	D5
Connector for Universal Applicator, D = 2.0 mm (EasyClick 6F)	LLS50-6F	D3, D5
CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 3 cm	LCZ1405-IU-3	A35
CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, central, L = 5 cm	LCZ1405-IU-5	A35
CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 3 cm	LCZ1405-L-3	A35
CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, left, L = 5 cm	LCZ1405-L-5	A35
CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 3 cm	LCZ1405-R-3	A35
CT/MR 2/3 Channel Endometrial Applicator Intrauterine Tube, right, L = 5 cm	LCZ1405-R-5	A35
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CT/MR 2-Channel Ring Applicator, 45°, D = 30 mm	LCT41-2	A21
CT/MR 2-Channel Ring Applicator, 45°, D = 35 mm	LCT41-3	A21
CT/MR 2-Channel Ring Applicator, 60°, D = 25 mm	LCT42-1	A21
CT/MR 2-Channel Ring Applicator, 60°, D = 30 mm	LCT42-2	A21
CT/MR 2-Channel Ring Applicator, 60°, D = 35 mm	LCT42-3	A21
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CT/MR Contour Prostate Template Titanium Insert, small matrix		B3, B4
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CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 20 mm	LCZ1409-2	A17
CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 40 mm	LCZ1409-4	A17
CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 60 mm	LCZ1409-6	A17
CT/MR Fletcher-Suit-Delclos (FSD) Intrauterine Tube, L = 80 mm	LCZ1409-8	A17
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CT/MR Fletcher-Suit-Delclos (FSD), right	LCZ1409-R	A17
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CT/MR Holding Discs for Gyn. Applicators, d = 5.0 mm, D = 15 mm, (5 pcs)	LCZ03-01	A37
CT/MR Intrauterine Tube for Ring Applicator, 30°, L = 20 mm	LCT40-6	A21
CT/MR Intrauterine Tube for Ring Applicator, 30°, L = 40 mm	LCT40-7	A21
CT/MR Intrauterine Tube for Ring Applicator, 30°, L = 60 mm	LCT40-8	A21
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CT/MR Intrauterine Tube for Ring Applicator, 60°, L = 60 mm	LCT42-8	A21, A23
CT/MR Intrauterine Tube for Ring Applicator, 60°, D = 3.5 mm, L = 60 mm	LCT06-02	A23
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CT/MR Perineal Bar	LCZ51-01	A3, A15, A21, A23
CT/MR Rectal Retractor	LCZ50-01	A3, A15, A21, A23
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CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	LCZ0922-30-4	A29
CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 40 mm	LCZ1402-30-4	A34
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CT/MR Ring & Tandem Intrauterine Tube, 30°, L = 60 mm	LCZ1402-30-6	A34
CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	LCZ0922-45-2	A29
CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 20 mm	LCZ1402-45-2	A34
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CT/MR Ring & Tandem Intrauterine Tube, 45°, L = 40 mm	LCZ1402-45-4	A34
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CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 40 mm	LCZ1402-60-4	A34
CT/MR Ring & Tandem Intrauterine Tube, 60°, L = 60 mm	LCZ0922-60-6	A29
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CT/MR Ring & Tandem, 45°, Ring Assembly, D = 32 mm	LCZ0922-R-45	A29
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CT/MR Ring & Tandem, 60°, Ring Assembly, D = 32 mm	LCZ0922-R-60	A29
CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 15°, L = 4 cm	LCZ1406-15-4	A9
CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 30°, L = 6 cm	LCZ1406-30-6	A9
CT/MR Segmented Vaginal Applicator Intrauterine Tube, curved, 45°, L = 8 cm	LCZ1406-45-8	A9
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No-Stich SMIT Sleeves, hard, for < 3.5 mm IU, single use, (10 pcs)	LCZ05-01	A9, A11, A17, A19, A27, A30, A42
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CT/MR Split Ring Intrauterine Tube, 30°, L = 60 mm	LCZ1401-30-6	A25, A26
CT/MR Split Ring Intrauterine Tube, 30°, L = 80 mm	LCZ1401-30-8	A25, A26
CT/MR Split Ring Intrauterine Tube, 45°, L = 20 mm	LCZ1401-45-2	A25, A26
CT/MR Split Ring Intrauterine Tube, 45°, L = 40 mm	LCZ1401-45-4	A25, A26
CT/MR Split Ring Intrauterine Tube, 45°, L = 60 mm	LCZ1401-45-6	A25, A26
CT/MR Split Ring Intrauterine Tube, 45°, L = 80 mm	LCZ1401-45-8	A25, A26
CT/MR Split Ring Intrauterine Tube, 60°, L = 20 mm	LCZ1401-60-2	A25, A27
CT/MR Split Ring Intrauterine Tube, 60°, L = 40 mm	LCZ1401-60-4	A25, A27
CT/MR Split Ring Intrauterine Tube, 60°, L = 60 mm	LCZ1401-60-6	A25, A27
CT/MR Split Ring Intrauterine Tube, 60°, L = 80 mm	LCZ1401-60-8	A25, A27
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CT/MR Split Ring, 30°, right tube	LCZ1401-30R	A25, A26
CT/MR Split Ring, 45°, left tube	LCZ1401-45L	A25, A26
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CT/MR Universal Rectal Retractor	LCZ1209	A17, A19, A25, A26, A27
CT/MR Vaginal Cylinder with variable length, D = 12.5 mm, L = 120 mm	LCZ07-06	A3
CT/MR Vaginal Cylinder with variable length, D = 15 mm, L = 120 mm	LCZ07-07	A3
CT/MR Vaginal Cylinder with variable length, D = 20 mm, L = 120 mm	LCZ07-01	A3
CT/MR Vaginal Cylinder with variable length, D = 25 mm, L = 125 mm	LCZ07-02	A3

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CT/MR Vaginal Cylinder with variable length, D = 35 mm, L = 135 mm	LCZ07-04	A3
CT/MR Vaginal Cylinder with variable length, D = 40 mm, L = 140 mm	LCZ07-05	A3
CT/MR Vaginal Cylinder, cervix, D = 20 mm, L = 130 mm	LC315-54	A13
CT/MR Vaginal Cylinder, cervix, D = 25 mm, L = 130 mm	LC315-14	A13
CT/MR Vaginal Cylinder, cervix, D = 30 mm, L = 130 mm	LC315-24	A13
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Distal Bracket Lock Knob	LCZ0508-17	A19
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Distal Dome Segment, D = 2.5 cm	LCZ0804-02-2.5	A9
Distal Dome Segment, D = 3.0 cm	LCZ0804-02-3.0	A9
Distal Dome Segment, D = 3.5 cm	LCZ0804-02-3.5	A9
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Domed Build-Up Cap, D = 35 mm	LCZ0904-40-35	A11
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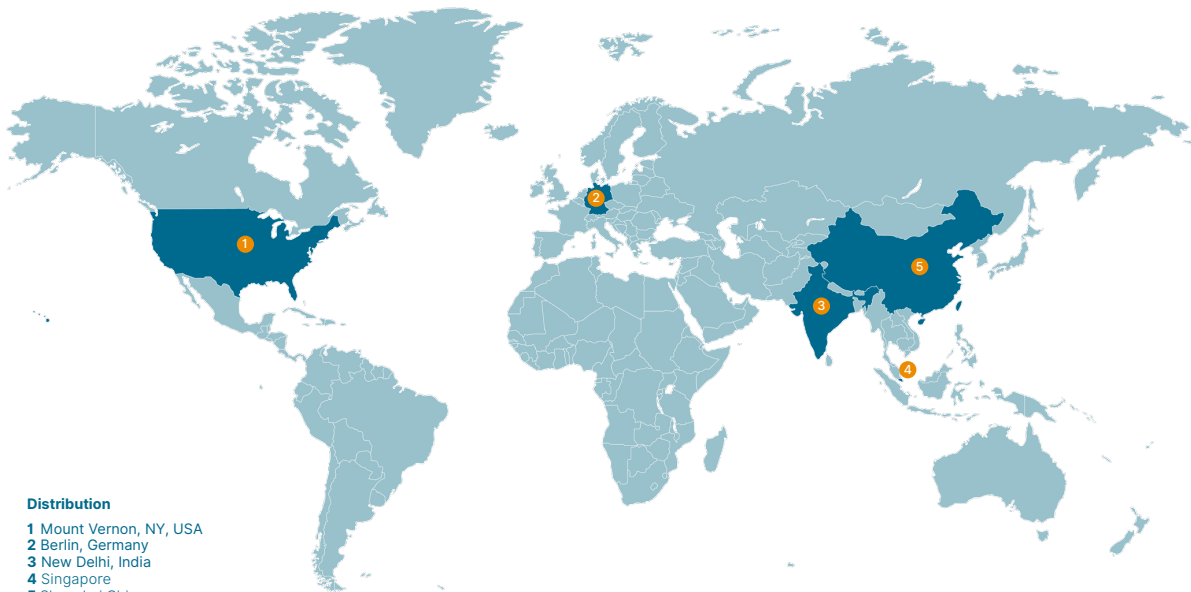
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	CT/MR Contour Prostate Template Titanium Insert, small matrix	B3, B4

# BEBIG Medical

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