

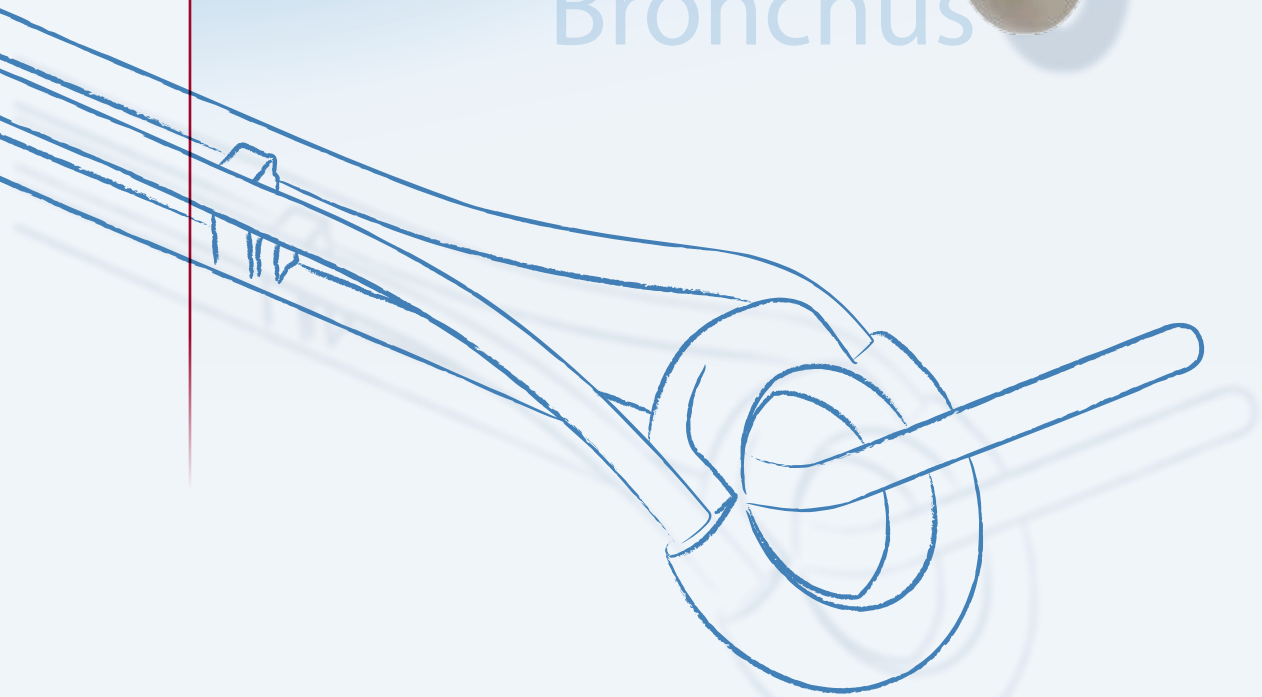
# HDR Applicators

& Accessories

Applicators & Accessories



MultiSource<sup>®</sup>  
Head & Neck Gynaecology  
Rectal  
Prostate  
Breast  
Esophagus &  
Bronchus  
Interstitial





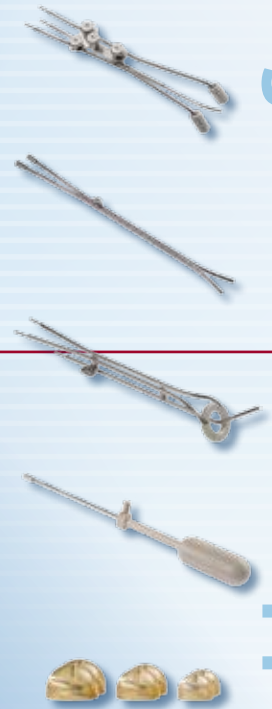
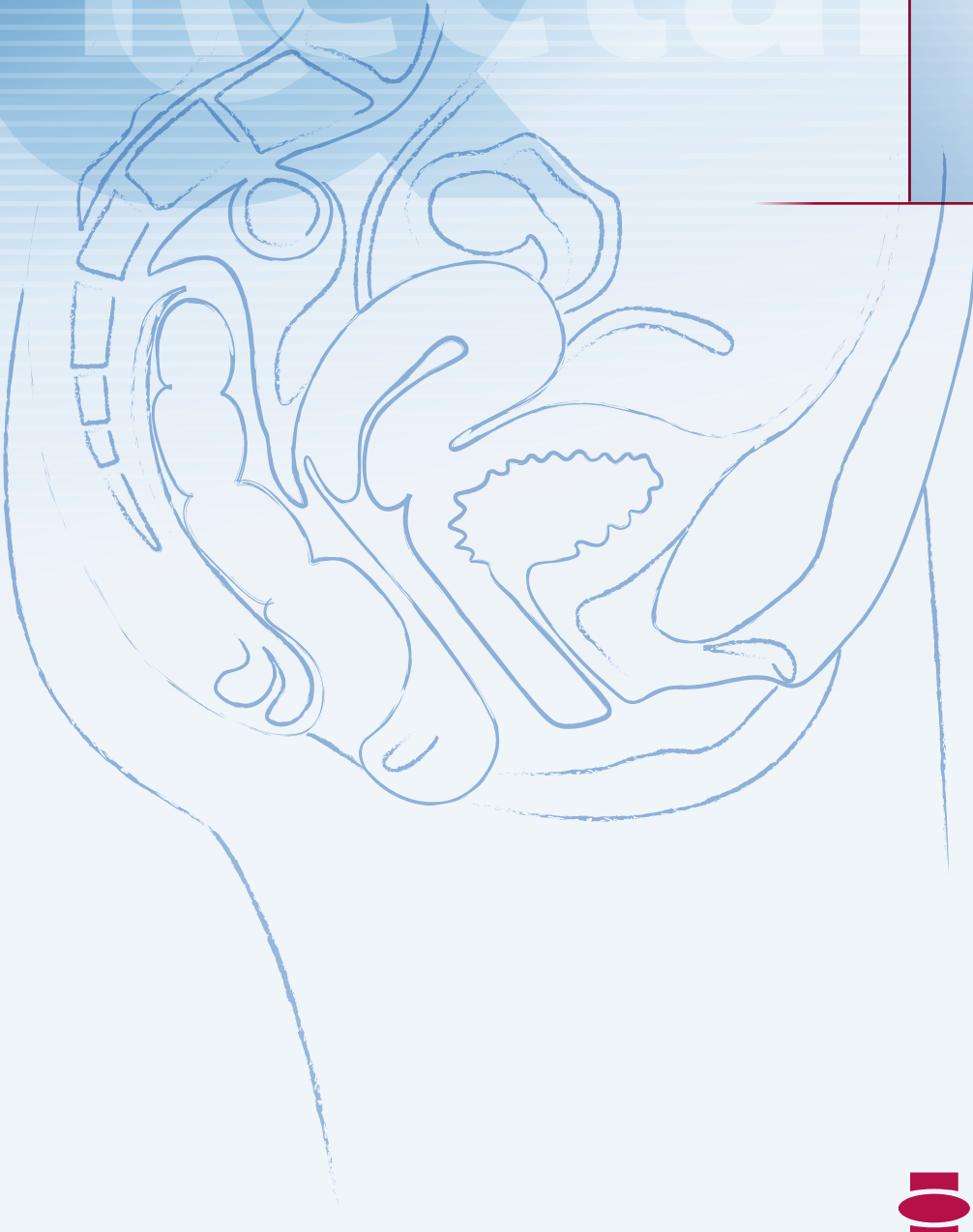
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# A. Gynaecology & Rectal

Endometrium  
Cervix  
Intra-uterine Tubes  
Gynaecology  
Rectal  
Applicator



Vaginal/Rectal Applicator Set

# Vaginal/Rectal Applicator Set

SET0001



## ■ Variable Length

The Vaginal/Rectal Applicator Set with variable length is essential for vaginal or rectal brachytherapy. This set includes cylinders of different diameters and lengths which allows easy adaptation to the patient's anatomy.

## ■ Patient Comfort

The cylinder is designed for easy insertion while providing patient comfort during treatment. Together with additional intrauterine tubes (SET 1001 & SET 1101), this set can be used for cervical treatment as well.

## ■ Excellent Dose Distribution

The design of the cylinder provides an optimal distance between the source and target area. Embedded markers facilitate the visualization of the cylinder surface during X-Ray imaging. The versatility of this applicator set makes it an essential brachytherapy tool for gynaecology and gastroenterology treatments.

## ■ Features

- Cylinders of different diameters are available (20, 25, 30, 35 and 40mm)
- Thanks to the variable concept the applicator length can easily be adapted to the patient's anatomy
- Closed cap for easy inserting and patient comfort
- Intrauterine tubes expand the set to include endometrial treatment
- Radiopaque cylinder markings improve treatment planning
- Cylinder provides spacing for a homogeneous dose distribution to the surface
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Set Content

Quantity	Item	Part number
1	Vaginal Cylinder with variable length, D=20, L=120	LAZ07-01
1	Vaginal Cylinder with variable length, D=25, L=125	LAZ07-02
1	Vaginal Cylinder with variable length, D=30, L=130	LAZ07-03
1	Screwdriver 1.5mm	LAZ09-01

## ■ Required Items

Quantity	Item	Part number
1	Universal Applicator incl. plug; D=3mm; L=1400mm*	LAA1400- RU
1	Intrauterine Tubes**	SET1001

\*Alternative: Universal Applicator incl. plug; D=3mm; L=1000mm

LAA1000- RU

\*\*Alternative: CT/MR Intrauterine Tubes

SET1101

CT/MR Intrauterine Tubes, thin + LAR01-01

SET1102

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	Holding Discs for gyn. Applicators, d=5.0mm, D=15mm*	LAZ03-01
1	CT/MR Holding Discs for gyn. Applicators, d=3.5mm, D=15mm**	LCZ03-03
1	Opening Forceps for Holding Discs	LAH05-03
1	Vaginal Cylinder with variable length, D=35mm, L=135mm	LAZ07-04
1	Vaginal Cylinder with variable length, D=40mm, L=140mm	LAZ07-05

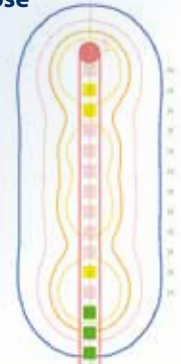
\*For use with Intrauterine Tubes and CT/MR Intrauterine Tubes

SET1001, SET1101

\*\*For use with CT/MR Intrauterine Tubes, thin

SET1102

## ■ Isodose



## ■ Sterilization Box



## ■ Opening Forceps for Holding Discs



# CT/MR-Vaginal/Rectal Applicator Set

SET0101



## ■ Variable Length

The CT/MR-Vaginal/Rectal Applicator Set with variable length is essential for vaginal or rectal brachytherapy. This set includes cylinders of different diameters and lengths which allows easy adaptation to the patient's anatomy.

## ■ Patient Comfort

The cylinder is designed for easy insertion while providing patient comfort during treatment. Together with additional intrauterine tubes (SET 1101), this set can be used for cervical treatment as well.

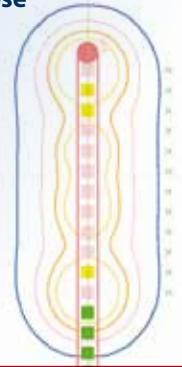
## ■ Versatile Design

The design of the cylinder provides an optimal distance between the source and target area. Embedded markers facilitate the visualization of the cylinder surface during X-Ray imaging. The versatility of this applicator set makes it an essential brachytherapy tool for gynaecology and gastroenterology treatments.

## ■ Features

- Applicator set is CT/MR compatible
- Cylinders of different diameters are available (20, 25, 30, 35 and 40mm)
- Thanks to the variable concept the applicator length can easily be adapted to the patient's anatomy
- Closed cap for easy inserting and patient comfort
- Cylinder provides spacing for a homogeneous dose distribution to the surface
- Intrauterine tubes expand the set to include endometrial treatment
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

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

## ■ Sterilization Box



## ■ Required Items

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

\*Alternative: Universal Applicator incl. plug; D=3mm; L=1000mm

LAA1000-RU

\*\* Alternative: CT/MR Intrauterine Tubes, thin + LCR1-01

SET1102

## ■ Opening Forceps for Holding Discs

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	CT/MR Holding Discs for gyn. Applicators, d=5.0mm, D=15mm*	LCZ03-01
1	CT/MR Holding Discs for gyn. Applicators, d=3.5mm, D=15mm**	LCZ03-03
1	Holding Discs for gyn. applicators, d=5mm, D=15mm	LCZ03-01
1	Opening Forceps for Holding Discs	LAH05-03
1	CT/MR-Vaginal Cylinder with variable length, D=35mm, D=135mm	LCZ07-04
1	CT/MR-Vaginal Cylinder with variable length, D=40mm, D=140mm	LCZ07-05

\*For use with CT/MR Intrauterine Tubes

SET1101

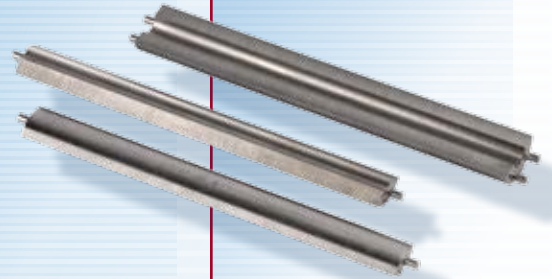
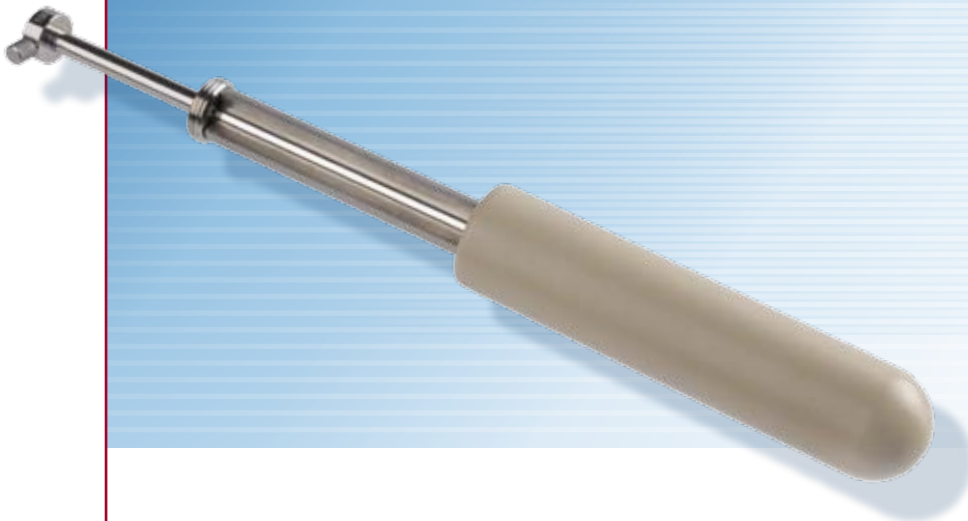
\*\*For use with CT/MR Intrauterine Tubes, thin

SET1102



# Vaginal/Rectal Applicator Set Variable Shielding

SET0025



## ■ Variable Shielding

The Vaginal Applicator Set with Variable Shielding has been designed for use in vaginal and rectal brachytherapy. This set includes tungsten shielding segments of 90 and 180 degrees 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.

## ■ Patient Comfort

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

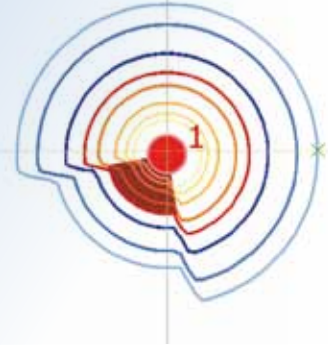
## ■ Optimal Dose Distribution

The design of the cylinder provides an optimal distance between the source and target area. The possibility to arrange the shielding segments increases the ability to spare sensitive areas, such as organs at risk. The HDRplus treatment-planning-system calculates the effect of the shielding, for Ir192 and for Co60 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 gynaecology and gastroenterology treatments.

## ■ Features

- Variable shielding for protecting organs at risk
- Cylinders of different diameters adapt to patient anatomy
- Defined geometry of cylinders ensures homogeneous dose distribution at the surface
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	Vaginal Cylinder, closed, D=22mm, L=130mm	LA320-64
1	Vaginal Cylinder, closed, D=25mm, L=130mm	LA320-74
1	Vaginal Cylinder, closed, D=30mm, L=130mm	LA320-84
1	Vaginal Cylinder, closed, D=35mm, L=130mm	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	10 Sealing Caps for LARXX-01 and LCRXX-01	LAZ17-02

## ■ Sterilization Box



## ■ Required Items

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

\*Alternative: Universal Appl. incl. plug, D=3mm, L=1000mm

LAA1000-RU

## ■ CT/MR Upgrade

Quantity	Item	Part number
1	Adapter for Vaginal Cylinder	LC313-22
1	Fixation Tube, D= 5mm	LC313-21
1	Intrauterine Tube, CT/MR, straight	LCR01-01

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box	LLZ05-01

# CT/MR-Vaginal Applicator Set

SET0125



## ■ Ease of Use

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

## ■ Patient Comfort

The cylinders are designed for easy insertion and provide patient comfort 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.

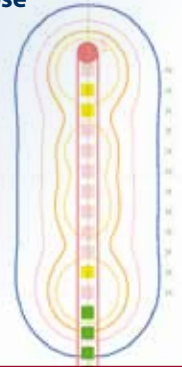
## ■ Optimal Dose Distribution

The CT/MR compatibility of this applicator set allows for state of the art planning, optimizing the treatment planning processes. The design itself of the cylinders additionally provides ideal distances between the source and target area. This applicator set is an essential brachytherapy tool for gynaecology and gastroenterology treatments.

## ■ Features

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

## ■ Isodose



## ■ Set Content

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

## ■ Sterilization Box



## ■ Required Items

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

\*Alternative: Universal Appl. incl. plug, D=3mm, L=1000mm

LAA1000-RU

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box	LLZ05-01

# CT/MR-Portio Set

SET0108



## ■ Broad Variety of Treatment Options

The CT/MR-Portio Set is designed for the treatment of the vaginal cuff, vaginal vault, cervix and endometrium. The additional channels located concentrically around the intrauterine tube provide additional treatment options to improve target coverage.

## ■ Added Benefit

The intrauterine tubes of the Portio Set are made of titanium and can be used with CT/MR imaging. The set contains cylinders of different diameters to accommodate individual anatomies. The Portio applicator can be used together with the intrauterine tube (SET 1001, SET 1101 & SET 1102) to make treating the uterus, as well as the vagina, possible.

## ■ Customized Treatment

The CT/MR compatibility of this multi-channel applicator allows for state of the art 3D planning. The dose distribution can be either symmetrical or asymmetrical depending on the channels used, making this applicator superior for some cases to the shielded vaginal applicator. The exceptional design of the CT/MR-Portio Set expands the treatment options of vaginal brachytherapy.

## ■ Features

- Applicator set is CT/MR compatible
- Multi-channel cylinder provides flexibility in establishing desired dose distribution
- Different diameters provide adaptability to individual anatomies
- Intrauterine tubes expand the treatment options to include cervix and endometrial treatment
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Set Content

Quantity	Item	Part number
1	CT/MR Applicator for Portio Treatment, D=25mm, L=100mm	LCZ04-05
1	CT/MR Applicator for Portio Treatment, D=30mm, L=100mm	LCZ04-15
1	Fixation Tube, D=5mm	LC313-21

## ■ Required Items

Quantity	Item	Part number
7	Universal Applicator incl. plug, D=3mm, L=1400mm*	LAA1400-RU
1	Flexible Guide Tube, L=1000mm**	LAF1000
1	CT/MR Intrauterine Tubes***	SET1101

\*Alternative: Universal Applicator incl. Plug, D=3mm, L=1000mm

\*\*Only necessary if Portio Applicator is used with thin intrauterine tubes

\*\*\*Alternative: CT/MR Intrauterine Tubes, thin

LAA1000-RU

SET1102

## ■ Optional Items

Quantity	Item	Part number
1	Closed cap, D=25mm	LCZ07-02-00
1	Closed cap, D=30mm	LCZ07-03-00
1	CT/MR Holding Discs for gyn. Applicators, d=5.0mm, D=15mm*	LCZ03-01
1	CT/MR Holding Discs for gyn. Applicators, d=3.5mm, D=15mm**	LCZ03-03
1	Opening Forceps for Holding Discs	LAH05-03
1	Sterilization Box for Applicators	LLZ05-01

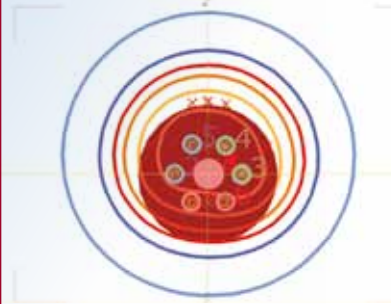
\*For use with CT/MR Intrauterine Tubes

\*\*For use with CT/MR Intrauterine Tubes, thin

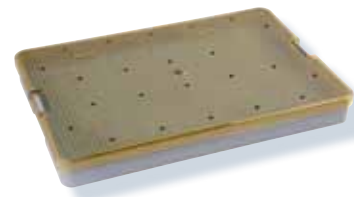
SET1101

SET1102

## ■ Isodose



## ■ Sterilization Box

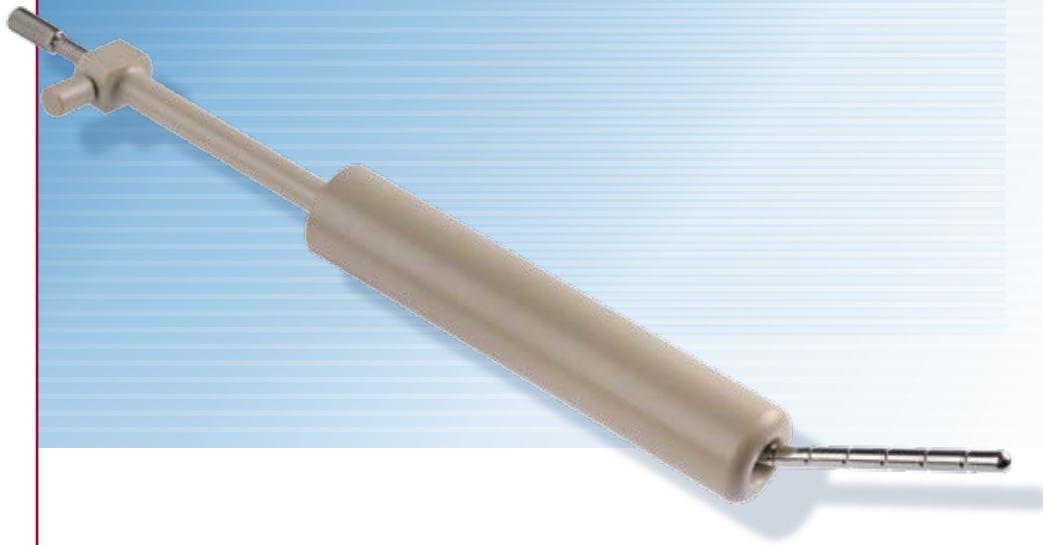


## ■ Opening Forceps for Holding Discs



# CT/MR-Adjustable Cervix Applicator Set

SET0117



## ■ CT/MR Compatibility

The CT/MR-Adjustable Cervix Applicator Set is CT/MR compatible and allows for excellent brachytherapy treatment of the cervix and endometrium. The funnel-shaped end of the cylinder provides an optimal dose to the cervix and vagina.

## ■ Easy Adaptation to Anatomical Area

This set contains cylinders of different diameters which easily adapt to the anatomical area. The additional intrauterine tubes (SET1001 & SET1101) extend the treatment possibilities to include the endometrium.

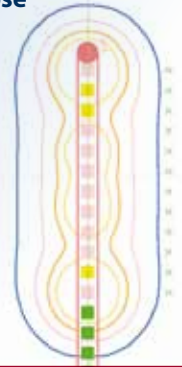
## ■ Optimal Dose Distribution

An optimal dose distribution is easily obtained using this uniquely designed applicator. The cylinder provides spacing in order to optimise the dose at the surface of the applicator. The CT/MR-Adjustable Cervix Applicator is designed to provide precise gynaecological brachytherapy.

## ■ Features

- Applicator set is CT/MR compatible
- Funnel-shaped applicator provides optimal dose to the cervix
- Cylinders of different diameters adapt to individual anatomical needs
- Additional intrauterine tubes expand the treatment options to include endometrial treatment
- Cylinder provides spacing for a homogeneous dose distribution at the surface of the applicator
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

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

## ■ Sterilization Box



## ■ Required Items

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

\*Alternative: Universal Applicator incl. plug; D=3mm; L=1000mm

LAA1000- RU

\*\*Alternative: CT/MR Intrauterine Tubes, thin

SET1102

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	CT/MR Holding Discs for gyn. Applicators, d=5.0mm, D=15mm*	LCZ03-01
1	CT/MR Holding Discs for gyn. Applicators, d=3.5mm, D=15mm**	LCZ03-03
1	Opening Forceps for Holding Discs	LAH05-03

\*For use with CT/MR Intrauterine Tubes

SET1101

\*\*For use with CT/MR Intrauterine Tubes, thin

SET1102

## ■ Opening Forceps for Holding Discs



# Fletcher Set

SET0009



## ■ Fletcher Geometry

The Fletcher Set is based on the "Fletcher-style" geometry for gynaecological brachytherapy. This design combines an angled intrauterine tube with ovoid tubes to provide an excellent dose coverage to the endometrium and cervix.

## ■ Easy Insertion

The intrauterine tube and individual ovoid tubes are easy to insert. Once in place they lock together remaining stable and immobile during treatment. The ovoids provide spacing between the source and the tissue.

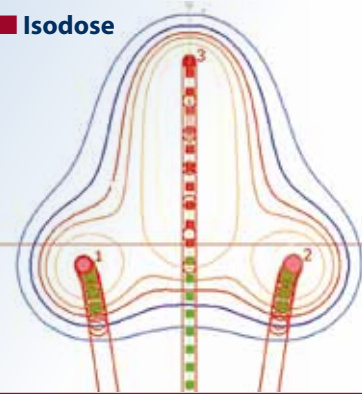
## ■ Excellent Dose Distribution

This specially designed applicator generates the ideal dose distribution to completely encompass the endometrium and cervix. The Fletcher Set is an important tool for gynaecological brachytherapy.

## ■ Features

- Intrauterine tube and ovoids are anatomically designed
- Fletcher Set provides an optimal dose distribution to the cervix and endometrium
- Intrauterine tube and ovoid tubes lock together remaining stable and immobile
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	Ovoid Tubes, right and left (Fletcher)	LAR72-02
2	Ovoid; D=20mm, L=30mm	LA330-17
1	Opening Forceps for Holding Discs	LAH05-03
2	Sealing Cap for LARXX-XX and LCRXX-XX (10 pcs)	LAZ17-02
1	Screwdriver 1.5mm	LAZ09-01
5	Holding Discs for Gyn. Applicators, d=5.0mm, D=15mm	LAZ03-01

## ■ Sterilization Box



## ■ Required Items

Quantity	Item	Part number
3	Universal Applicator incl. plug, D=3mm, L=1400mm*	LAA1400-RU
1	Intrauterine Tubes**	SET1001

\*Alternative: Universal Applicator incl. plug, D=3mm, L=1000mm

LAA1000-RU

\*\*Alternative: CT/MR Intrauterine Tubes, thin

SET1102

## ■ Opening Forceps for Holding Discs



## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	CT/MR Holding Discs for gyn. Applicators, d=5.0mm, D=15mm*	LCZ03-01
1	CT/MR Holding Discs for gyn. Applicators, d=3.5mm, D=15mm**	LCZ03-03

\*For use with CT/MR Intrauterine Tubes

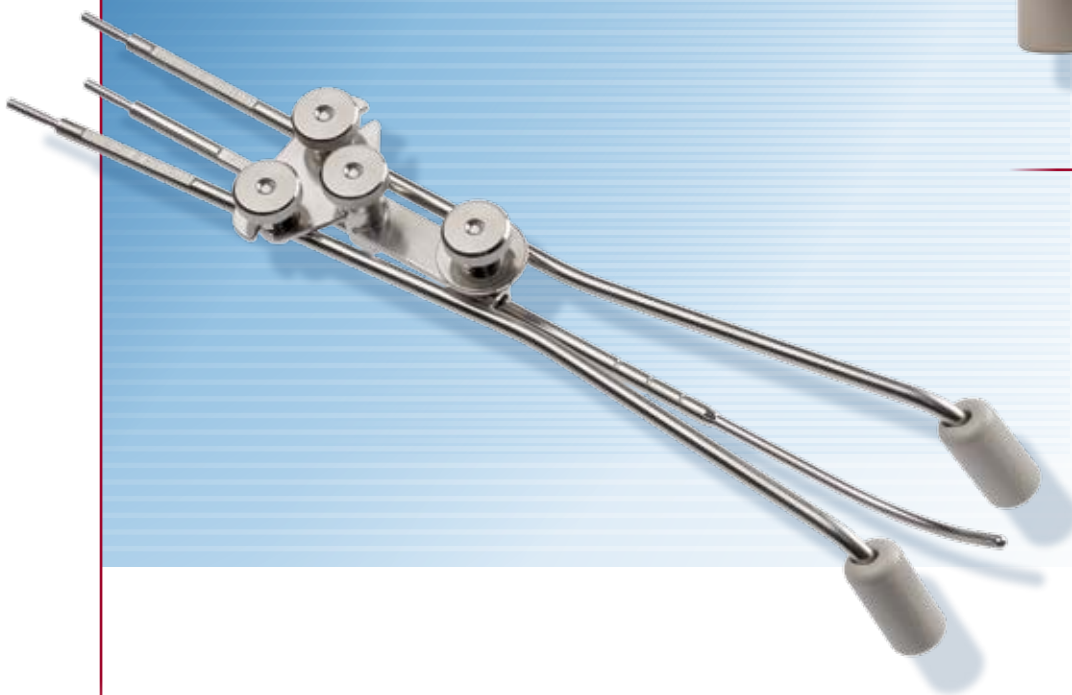
SET1001

\*\*For use with CT/MR Intrauterine Tubes, thin

SET1102

# CT/MR Fletcher Set

SET0109



## ■ Fletcher-style Geometry

The CT/MR Fletcher Set is based on the geometry of the conventional Fletcher-type applicator design for gynaecological brachytherapy. It is intended for the treatment of the cervix, uterus and endometrium. The CT/MR compatible applicator is made of titanium to ensure the mechanical robustness and at the same time have 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 three tightening screws to remain stable and immobile during treatment. The ovoids provide spacing between the source and tissue. For optimal adaptation to patient anatomy the set includes ovoids of different sizes.

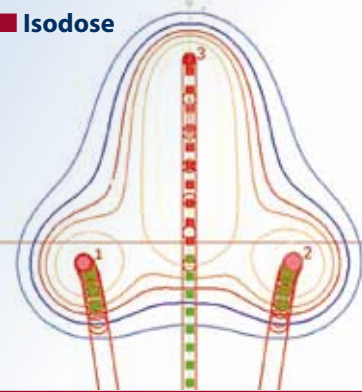
## ■ Excellent Dose Distribution

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

## ■ Features

- Applicator set is CT/MR compatible
- Ovoids made of PEEK are well designed for optimal adaptation to the patient anatomy
- Fletcher Set provides an optimal dose distribution to the cervix and endometrium
- Intrauterine tubes and ovoid tubes lock together remaining stable and immobile
- Holding discs to prevent perforation of the cervix
- The applicator can easily be attached to the Applicator Clamp
- Applicator set is reusable; reprocessing via automatic cleaning, disinfection and steam Sterilization

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	CT/MR Fletcher Ovoid Tubes right and left	LCT82-02
1	Mini-Ovoid Pair; D=15mm, L=30mm	LC330-01
1	Ovoid Pair, D=20mm, L=30mm	LC330-02
1	Ovoid Pair, D=25mm, L=30mm	LC330-03
1	Ovoid Pair, D=30mm, L=30mm	LC330-04
1	Screwdriver 1.5mm	LAZ09-01
1	CT/MR Holding Discs for gyn. applicators, d=3.5mm, D=15mm (5 pcs)	LCZ03-03
1	Opening Forceps for Holding Discs	LAH05-03
2	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

## ■ Sterilization Box



## ■ Required Items

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

\*Alternative: CT/MR Intrauterine Tubes

SET1101

## ■ Flexible Guide Tube



## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	CT/MR Holding Discs for gyn. Applicators, d=5.0mm, D=15mm*	LCZ03-01
1	CT/MR Holding Discs for gyn. Applicators, d=3.5mm, D=15mm**	LCZ03-03

\*For use with CT/MR Intrauterine Tubes

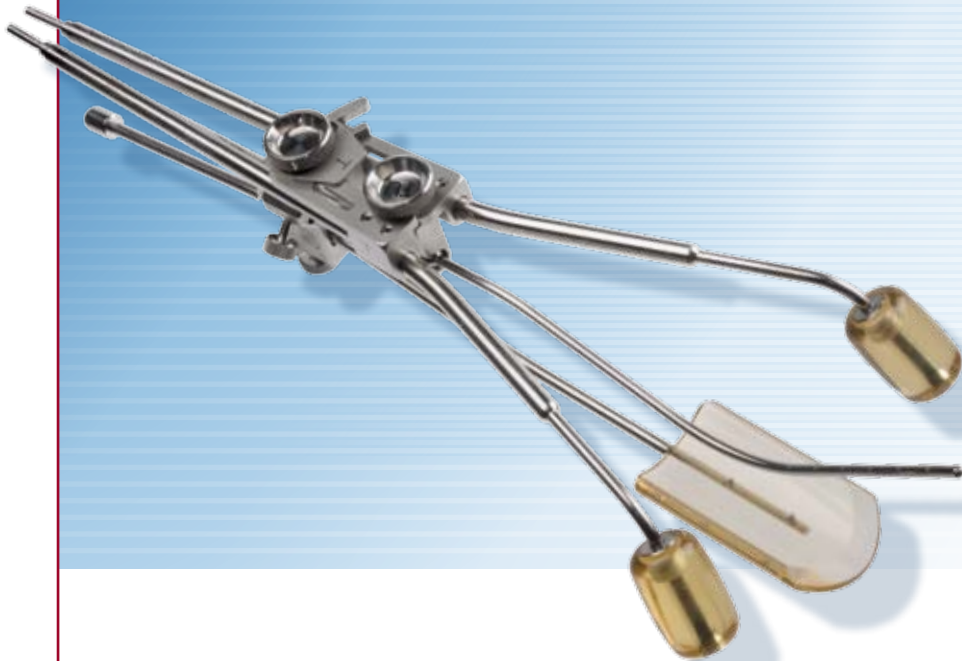
SET1101

\*\*For use with CT/MR Intrauterine Tubes, thin

SET1102

# Mick Fletcher Applicator

SET 0156



## ■ Fletcher-style Geometry

The CT Fletcher-Suit-Delclos Applicator design is based on the Fletcher-Suit-Delclos concept. It is intended for the treatment of the cervix, uterus and endometrium. The set consists of four rigid intrauterine tandems in different intrauterine lengths and a pair of interlocking colpostats with Fletcher ovoids in three sizes. The Applicator is also available with an optional rectal retractor.

## ■ Easy Insertion

The thin intrauterine tube and the individual ovoid tubes are easy to insert. The tandem can be assembled with the left and right colpostats either before or after insertion in the patient. Once inserted the tandem can be locked and the applicator remains stable and immobile.

## ■ Excellent Dose Distribution

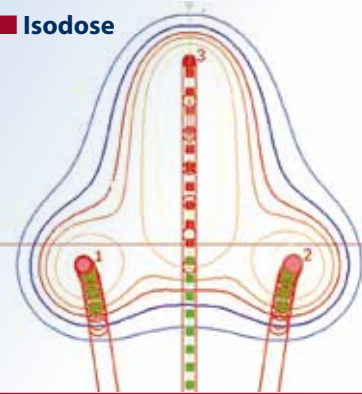
For optimal adaptation to patient anatomy and target volume the set includes four intrauterine tubes of different lengths (20-80mm) and three sizes of ovoids of 20, 25, 30mm diameter. The possibility to spread out colpostats and the optional rectal retractor reduce the dose to organs at risk such as the bladder and rectum. This applicator enables an ideal dose distribution to the target volume e.g. cervix, uterus or endometrium. The Fletcher applicator is a classical tool for gynaecological brachytherapy.

## ■ Features

- The applicator is designed in the “Fletcher-style”\*
- Colpostats can be spread out to reduce the dose to the surrounding tissue
- A rectal retractor reduces the dose to the rectum
- The applicator enables an optimal dose to the target volume
- The colpostats and intrauterine tandem lock together and remain stable and immobile
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam and ETO sterilization

\*Non-shielded ovoids are used ; developed for CT-imaging without artefacts (no MRI)

## ■ Isodose



## ■ Set Content\*

Quantity	Item
2	Colpostat (left&right)
2	Ovoids, D=20mm
2	Ovoids, D=25mm
2	Ovoids, D=30mm
1	Tandem IUL=20mm
1	Tandem IUL=40mm
1	Tandem IUL=60mm
1	Tandem IUL=80mm
1	Tandem Stabilizer Bracket
1	Tandem Clamp
1	Uterine Stop
2	Spacing Bracket (left&right)
1	Allen Wrench
1	Ruler L=150mm
10	Cleaning Caps
1	Sterilization Box for Applicators

\*Only available as a complete set

## ■ Sterilization Box



## ■ Flexible Guide Tube



## ■ Required Items

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

# Manchester Set

SET0024



## ■ Manchester Geometry

The Manchester Set is based on the “Manchester-style” geometry for gynaecological brachytherapy. This design incorporates intrauterine tubes with semispherical ovoids which conform to the anatomical site. This combination allows a precise dose to the endometrium and cervix.

## ■ Easy Insertion and Expansion

The intrauterine tube is available in different angles and intrauterine lengths to match the individual patient anatomy (SET 1001, SET 1101 & SET 1102). The ovoid tubes are inserted separately, connected to the already placed intrauterine tube and spread out to reach the desired configuration. The ovoids and intrauterine tube lock together remaining stable and immobile during treatment.

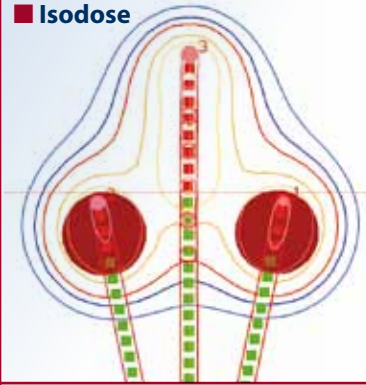
## ■ Optimal Dose Distribution

This combination of intrauterine tube and ovoids creates an optimal dose distribution for encompassing the target volume. The expansion of the ovoids provides tissue spacing which reduces the dose to the bladder and rectum. The Manchester Set is an essential tool for gynaecological brachytherapy.

## ■ Features

- Intrauterine tubes and ovoids are designed in the “Manchester-style”
- Ovoid tubes are separately inserted and then easily locked together
- Manchester Set provides an optimal dose distribution to the target volume
- The ovoids and intrauterine tube lock together remaining stable and immobile
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	Ovoid Tubes, right and left (Manchester)	LAR81-02
2	Ovoids, D=20mm, A=15mm	LA330-14
2	Ovoids, D=25mm, A=17.5mm	LA330-15
2	Ovoids, D=30mm, A=20mm	LA330-16
1	Opening Forceps for Holding Discs	LAH05-03
2	Sealing Cap for LARXX-XX and LCRXX-XX (10 pcs)	LAZ17-02
1	Screwdriver 1.5mm	LAZ09-01
5	Holding Discs for Gyn. Applicators, d=5.0mm, D=15mm	LAZ03-01

## ■ Sterilization Box



## ■ Required Items

Quantity	Item	Part number
3	Universal Applicator incl. plug, D=3mm, L=1400mm*	LAA1400-RU
1	Intrauterine Tubes**	SET1001
*Alternative: Universal Applicator incl. plug, D=3mm, L=1000mm		LAA1000-RU
**Alternative: CT/MR Intrauterine Tubes, thin		SET1102

## ■ Opening Forceps for Holding Discs



## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	CT/MR Holding Discs for gyn. applicators, d=5.0mm, D=15mm*	LCZ03-01
1	CT/MR Holding Discs for gyn. applicators, d=3.5mm, D=15mm**	LCZ03-03

\*For use with CT/MR Intrauterine Tubes

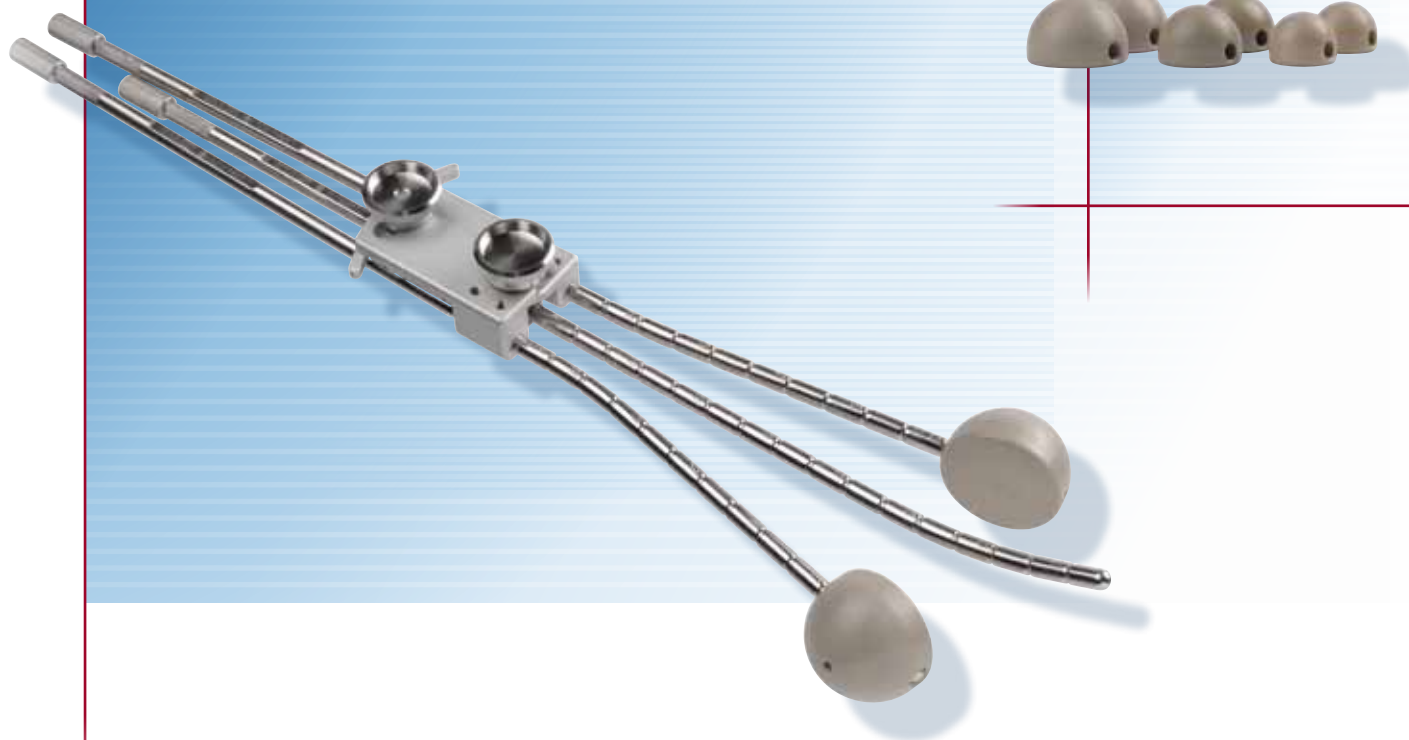
SET1001

\*\*For use with CT/MR Intrauterine Tubes, thin

SET1102

# Henschke Set

SET0035



## ■ Henschke Geometry

The Henschke Set is based on the "Henschke-style" geometry for gynaecological brachytherapy. This design combines an intrauterine tube with semispherical ovoids to conform to the anatomical site. This combination allows for a precise dose to the cervix and endometrium.

## ■ Matches Patient Anatomy

The intrauterine tube is available in different intrauterine lengths and angles to match the individual patient anatomy (SET1001, SET1101 & SET1102). The ovoids are inserted separately, connected to the already inserted intrauterine tube and expanded to reach the desired configuration. The ovoids and intrauterine tube lock together remaining stable and immobile during treatment.

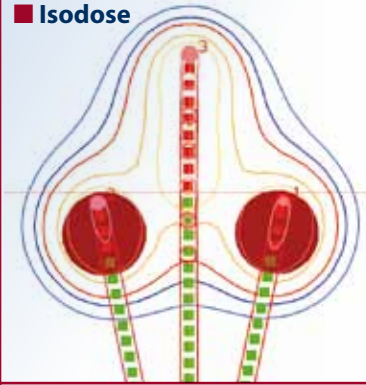
## ■ Optimal Dose Distribution

This applicator set generates an optimal dose distribution to the target volume cervix uteri. The ovoid caps and the possibility to spread out the ovoids reduce the dose to the rectum and bladder. The Henschke Set is a classical tool for gynaecological brachytherapy, especially for narrowed vaginas.

## ■ Features

- Intrauterine tubes and ovoids are designed in the “Henschke-style”
- Ovoids can be spread out to reduce dose to the surrounding tissue
- Henschke Set provides an optimal dose distribution to the target volume
- The ovoids and intrauterine tube lock together remaining stable and immobile
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	Ovoid Tubes, right and left (Henschke)	LAR84-02
2	Ovoids, D=20mm, A=15mm	LA330-14
2	Ovoids, D=25mm, A=17.5mm	LA330-15
2	Ovoids, D=30mm, A=20mm	LA330-16
1	Opening Forceps for Holding Discs	LAH05-03
2	Sealing Cap for LARXX-XX and LCRXX-XX (10 pcs)	LAZ17-02
1	Screwdriver 1.5mm	LAZ09-01
5	Holding Discs for gyn. applicators, d=5.0mm, D=15mm	LAZ03-01

## ■ Sterilization Box



## ■ Required Items

Quantity	Item	Part number
3	Universal Applicator incl. plug, D=3mm, L=1400mm*	LAA1400-RU
1	Intrauterine Tubes**	SET1001
*Alternative: Universal Applicator incl. plug, D=3mm, L=1000mm		LAA1000-RU
**Alternative: CT/MR Intrauterine Tubes		SET1101
CT/MR Intrauterine Tubes, thin		SET1102

## ■ Opening Forceps for Holding Discs

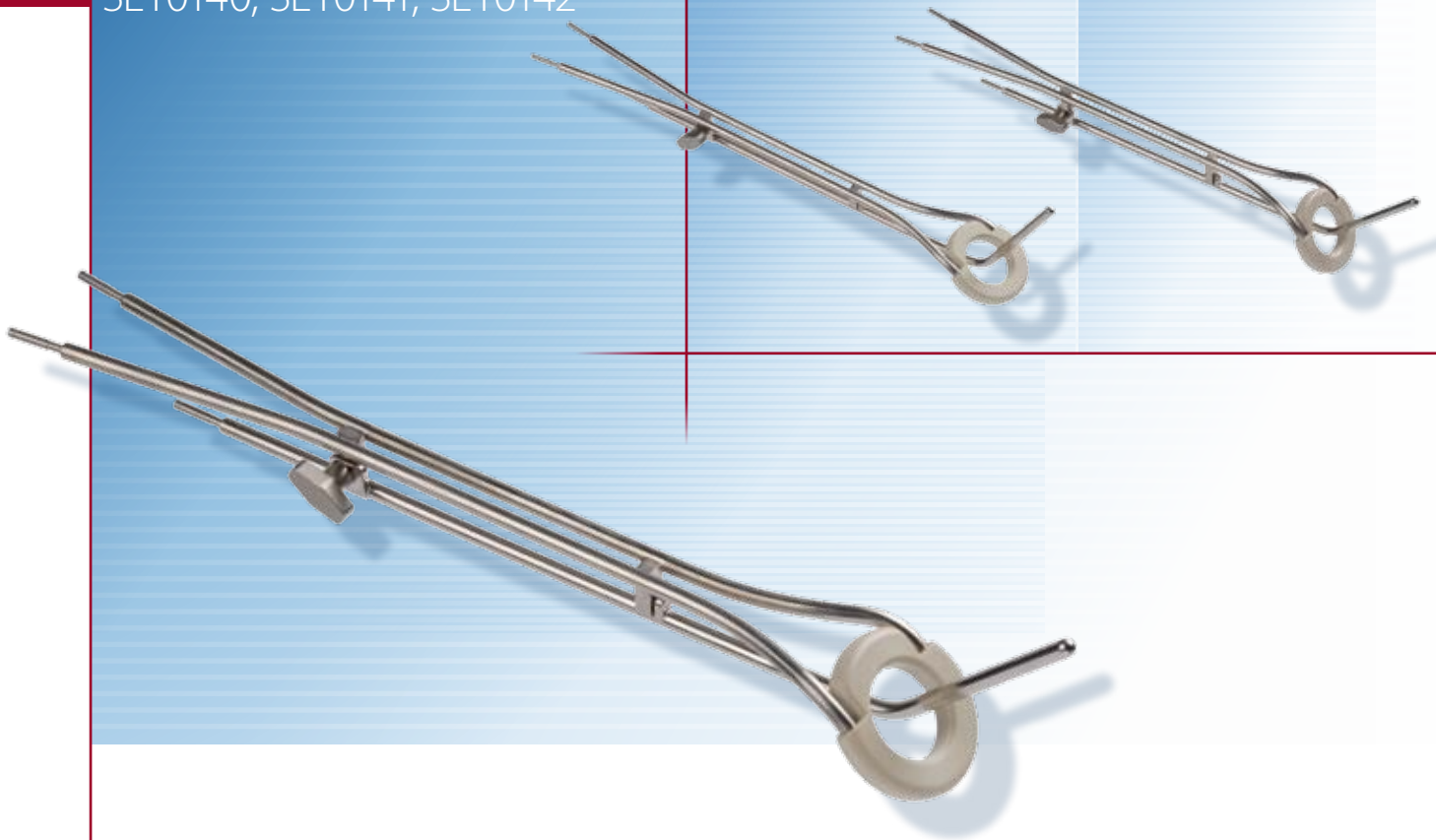


## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	CT/MR Holding Discs for gyn. applicators, d=3.5mm, D=15mm**	LCZ03-03
1	CT/MR Holding Discs for gyn. applicators, d=5.0mm, D=15mm*	LCZ03-01
*For use with Intrauterine Tubes and CT/MR Intrauterine Tubes		SET1001, SET1101
**For use with CT/MR Intrauterine Tubes, thin		SET1102

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

SET0140, SET0141, SET0142



## ■ Versatile Brachytherapy Tool

The CT/MR-Ring Applicators are based on the Stockholm Technique for gynaecological brachytherapy. They are available in 30°, 45° and 60° sets, with the angle defined relative to the ring and the axis of the applicator. Each set consists of 3 two-channel rings with diameters of 25, 30, and 35mm, measured from centre to centre, along with 3 corresponding intrauterine tubes with IU lengths of 20, 40, and 60mm. The PEEK rings with outer diameters of 36, 42 and 45mm are permanently attached. The rings and intrauterine tubes can

be combined within each set. The various geometries provide the physician with added flexibility and expanded treatment options. The CT/MR-Ring Applicators are a versatile and important tool for gynaecological brachytherapy.

## ■ Easy Insertion

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.

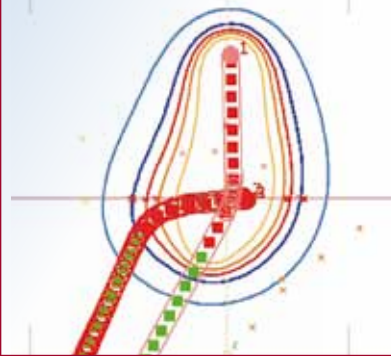
## ■ Excellent Dose Coverage

The fixed geometry of the CT/MR Ring Applicators provides a reproducible dose distribution for gynaecological brachytherapy. The combination of a ring and an angled intrauterine tube which passes through the centre of the ring results in an excellent dose coverage to the endometrium and cervix.

## ■ Features

- Applicators are CT/MR compatible
- Different intrauterine lengths and ring diameters are available to meet anatomical requirements
- The fixed geometry of the Ring Applicators allows for reproducible dose distributions
- Intrauterine tube and ring lock together remaining immobile and stable
- Fixed PEEK ring cap reduces dose to surrounding tissue by distance
- Applicator sets are reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content SET0140

Quantity	Item	Part number
1	2-Channel-Ring-Applicator CT/MR, 30°, d=25mm	LCT40-1
1	2-Channel-Ring-Applicator CT/MR, 30°, d=30mm	LCT40-2
1	2-Channel-Ring-Applicator CT/MR, 30°, d=35mm	LCT40-3
1	IU tube for Ring-Applicator CT/MR, 30°, IUL=20mm	LCT40-6
1	IU tube for Ring-Applicator CT/MR, 30°, IUL=40mm	LCT40-7
1	IU tube for Ring-Applicator CT/MR, 30°, IUL=60mm	LCT40-8
2	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

## ■ Sterilization Box



## ■ Set Content SET0141

Quantity	Item	Part number
1	2-Channel-Ring-Applicator CT/MR, 45°, d=25mm	LCT41-1
1	2-Channel-Ring-Applicator CT/MR, 45°, d=30mm	LCT41-2
1	2-Channel-Ring-Applicator CT/MR, 45°, d=35mm	LCT41-3
1	IU tube for Ring-Applicator CT/MR, 45°, IUL=20mm	LCT41-6
1	IU tube for Ring-Applicator CT/MR, 45°, IUL=40mm	LCT41-7
1	IU tube for Ring-Applicator CT/MR, 45°, IUL=60mm	LCT41-8
2	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

## ■ Flexible Guide Tube



## ■ Set Content SET0142

Quantity	Item	Part number
1	2-Channel-Ring-Applicator CT/MR, 60°, d=25mm	LCT42-1
1	2-Channel-Ring-Applicator CT/MR, 60°, d=30mm	LCT42-2
1	2-Channel-Ring-Applicator CT/MR, 60°, d=35mm	LCT42-3
1	IU tube for Ring-Applicator CT/MR, 60°, IUL=20mm	LCT42-6
1	IU tube for Ring-Applicator CT/MR, 60°, IUL=40mm	LCT42-7
1	IU tube for Ring-Applicator CT/MR, 60°, IUL=60mm	LCT42-8
2	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

## ■ Required Items SET0140, SET0141, SET0142

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

## ■ Optional Items SET0140, SET0141, SET0142

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01

# Mick Split Ring Set

SET0146



## ■ Cervix, Uterus and Endometrium

The Split-Ring Applicator Set has been designed for HDR intracavitary gynaecological treatments. It is intended for the treatment of the cervix, uterus and endometrium. The CT/MR compatible applicator is made of titanium to ensure the mechanical robustness and at the same time have minimal artefacts in CT images and can be used with MR units. Two different build-up caps (10mm or 15mm diameter) made of silicone rubber are available for the half-rings.

## ■ Easy Insertion

The Intrauterine Tubes and the colpostats can easily be inserted. Once in place they lock together and remain stable and immobile during treatment. The half-rings can be kept together as a fixed ring applicator or can be spread laterally to simulate the traditional tandem and ovoid applicators. The spread between the colpostats can be adjusted between 38mm and 80mm in 5mm increments. The angle of the Ring as well as the angle of the Intrauterine Tubes is 45°.

## ■ Fitting Patient Anatomy

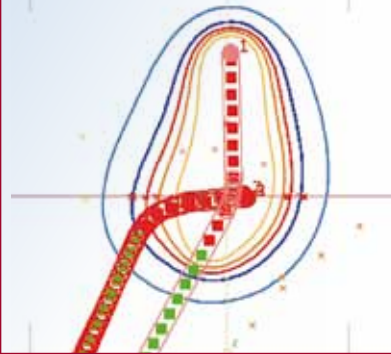
For optimal adaptation to patient anatomy, the set includes Intrauterine Tubes with 4 different intrauterine lengths (20, 40, 60, 80mm).

The Rectal Retractor can be separately attached to the tandem and adjusted posteriorly to increase the distance between applicator and rectum and therefore reduce the rectal dose.

## ■ Features

- Suitable for HDR gynaecological brachytherapy treatments
- Intrauterine Tubes with 4 different intrauterine lengths (20, 40, 60, 80mm)
- Angle 45°
- Applicator Set is CT/MR compatible
- Intrauterine tubes and colpostats lock together remaining stable and immobile
- Provides dose distribution flexibility
- Can be used with a Rectal Retractor to reduce rectal dose
- Applicator Set is reusable using steam sterilization

## ■ Isodose



## ■ Set Content\*

Quantity	Item
2	Liquid Silicone Rubber Build-Up-Caps 5.0mm
2	Liquid Silicone Rubber Build-Up-Caps 7.5mm
1	Colpostat-Left
1	Colpostat-Right
4	Tandem, IUL=20mm; 40mm; 60mm; 80mm: MCT41-01, MCT41-02, MCT41-03, MCT41-04
1	Cervical Stop
1	Spacing Bracket Left
1	Spacing Bracket Right
1	Tandem Lock Screw
1	Rectal Retractor
2	Colpostat Locking Screw
1	Colpostat Locking Sleeve Right
1	Colpostat Locking Sleeve Left
1	Allen Wrench
1	Stainless Steel Ruler, 150mm
1	Sterilization Box for Applicators

\*Only available as a complete set

## ■ Sterilization Box



## ■ Flexible Guide Tube



## ■ Required Items

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

# CT/MR-Endometrium Set (5mm)

SET0121



## ■ CT/MR Compatibility

The CT/MR-Endometrium Set allows for excellent brachytherapy treatment 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 consists of two separate titanium intrauterine tubes that are easily inserted into the uterus. The two tubes are locked together remaining stable and immobile during treatment.

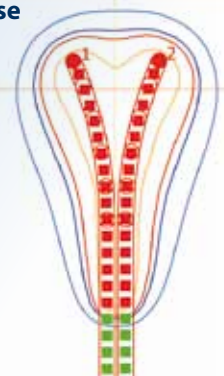
## ■ Optimal Dose Distribution

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

## ■ Features

- Applicator set is CT/MR compatible
- Titanium intrauterine tubes are easy to insert
- Intrauterine tubes lock together remaining stable and immobile during treatment
- Applicator design provides an excellent dose distribution
- Similar dose distribution as “Heyman Capsules”
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	Endometrium Applicator, D=5mm	LCR70-01
2	Sealing Cap for LARXX-01 (10 pcs)	LAZ17-02

## ■ Required Items

Quantity	Item	Part number
2	Universal Applicator incl. plug, D=3mm, L=1400mm*	LAA1400-RU

\*Alternative: Universal Applicator incl. plug, D=3mm, L=1000mm

LAA1000-RU

## ■ Sterilization Box

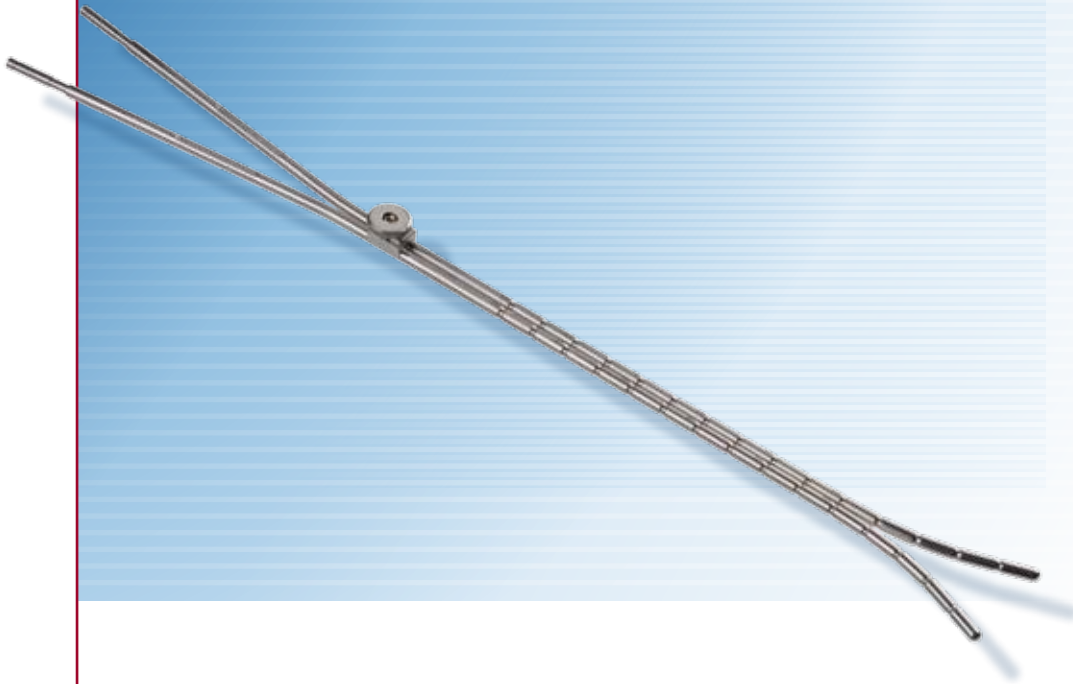


## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01

# CT/MR-Endometrium Set (3,5mm)

SET0122



## ■ CT/MR Compatibility

The CT/MR-Endometrium Set allows for excellent brachytherapy treatment 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 consists of two separate titanium intrauterine tubes that are easily inserted into the uterus. The two tubes are locked together remaining stable and immobile during treatment.

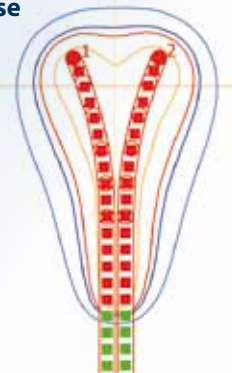
## ■ Optimal Dose Distribution

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

## ■ Features

- Applicator set is CT/MR compatible
- Titanium intrauterine tubes are easy to insert
- Intrauterine tubes lock together remaining stable and immobile during treatment
- Applicator design provides an excellent dose distribution
- Similar dose distribution as “Heyman Capsules”
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization
- The applicator can easily be attached to the Applicator Clamp

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	Endometrium Applicator, D=3.5mm	LCT70-01
2	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

## ■ Required Items

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

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01

## ■ Sterilization Box

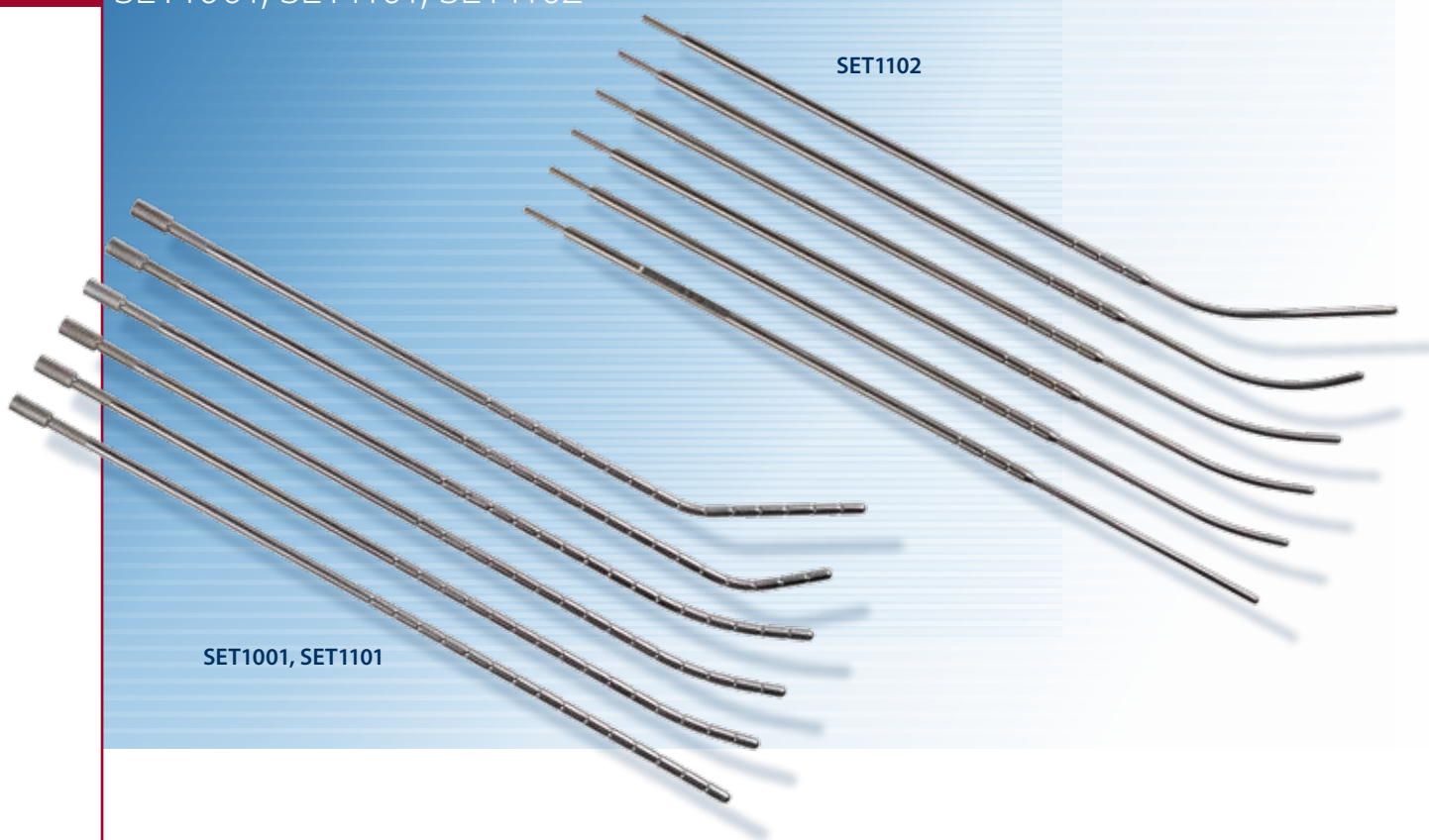


## ■ Flexible Guide Tube



# Intrauterine Tubes

SET1001, SET1101, SET1102



## ■ HDR Intracavitary Brachytherapy

The Intrauterine Tube Sets are used for HDR intracavitary brachytherapy treatments. The tubes are mainly used together with other applicators in gynaecological or rectal treatments. The applicators used together with the IU-Tubes are cylinders or 3 channel applicators. They can be used with IBt Bebig Fletcher, Henschke or Manchester applicators. The Ring Applicators are not compatible with the Intrauterine Tubes of these Sets.

## ■ Fitting Patient Anatomy

The Sets are available in stainless steel or titanium. The outside diameter of the intrauterine tubes made of stainless steel (SET1001) is 5mm while the titanium versions are available in diameters of 5mm (SET1101) or 3.5mm (SET1102). All three sets contain six Intrauterine Tubes, one straight and five with different angles and different intrauterine lengths for easy adaptation to patient anatomy. While the straight one is used for vaginal treatment without intrauterine part, the other IU-Tubes are used to deliver dose to the cervix and uterus.

The tubes of SET1001 and SET1101 are used together with the Universal Applicator LAA1400-RU. The thin IU-Tubes of SET1102 are connected to the Afterloader using the Flexible Guide Tube LAF1000.

## ■ Features

- Suitable for HDR intracavitary brachytherapy treatments
- Different diameters available 5mm and 3.5mm
- Different IU angles as well as IU-lengths available
- Compatible with all different kinds of IBt Bebig gynaecological applicators except the Ring Applicators
- Intrauterine Tubes are not part of the different gynaecological sets and need to be ordered separately

## ■ Set Content 1001

Quantity	Item	Part number
1	Intrauterine Tube, straight	LAR01-01
1	Intrauterine Tube, bent; IUL=40mm	LAR02-01
1	Intrauterine Tube, bent; IUL=50mm	LAR03-01
1	Intrauterine Tube, bent; IUL=60mm	LAR04-01
1	Intrauterine Tube, bent; IUL=35mm, 40°	LAR05-01
1	Intrauterine Tube, bent; IUL=65mm, 30°	LAR06-01
2	Sealing Cap for LARXX-XX and LCRXX-XX (10 pcs)	LAZ17-02

## ■ Set Content 1101

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

## ■ Set Content 1102

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

## ■ Required Items for SET1001 & 1101

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

\* Alternative: Universal Applicator incl. plug, D=3mm, L=1000mm

LAA1000-RU

## ■ Required Items for SET1102

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

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01

## ■ Sterilization Box



## ■ Flexible Guide Tube



## ■ Universal Applicator



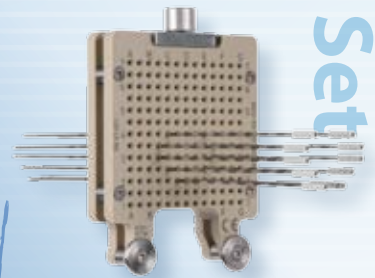
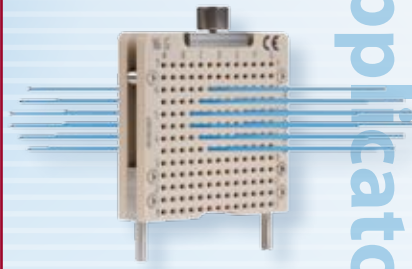


# B. Prostate

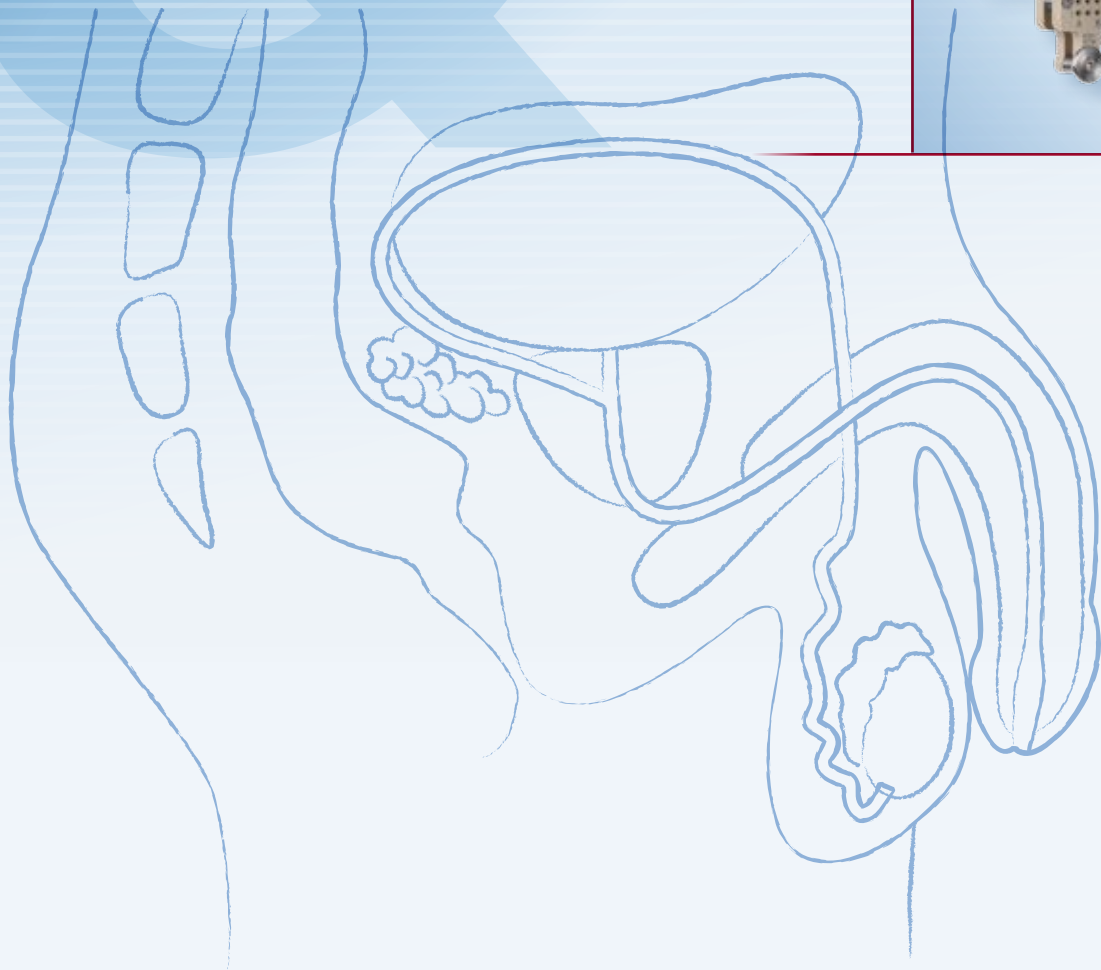
Plastic Needle Set

Prostate

Steel Needles

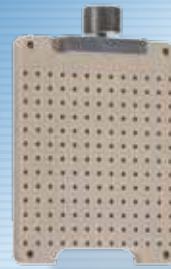
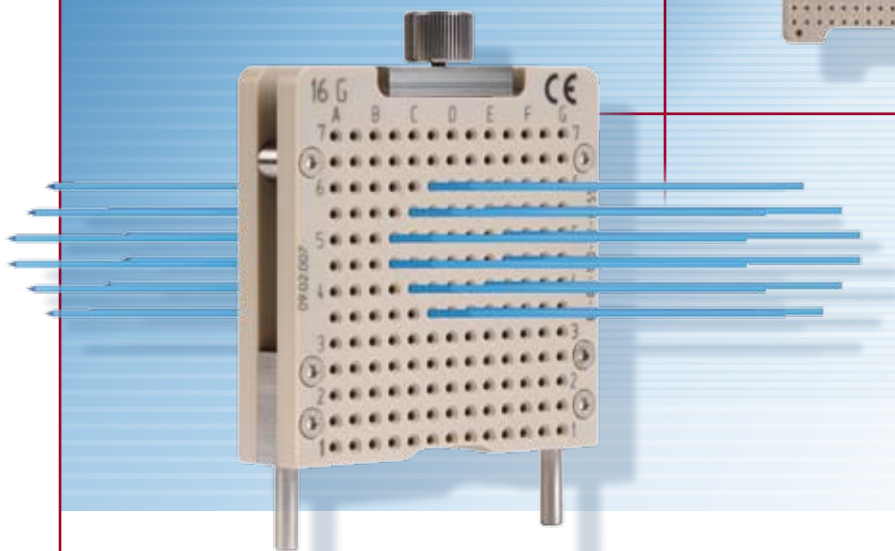


Applicators Set



# Prostate Set with Plastic Needles

SET0070



## ■ Variable Length

The Prostate Set is used for perineal implantation of Plastic Needles for HDR prostate treatment. The Set contains a 16G Fixation Template (reusable) and 200mm 16G Plastic Needles with corresponding obturators. The template can be sterilized either by autoclave or EO. The Fixation Template can be mounted on a stepper for ultrasound guided treatment planning.

## ■ Patient Comfort

The template is compatible with DK-Tech and CIVCO steppers which are compatible with a wide range of ultrasound units. The grid of the template contains holes (16G = 1,65mm) in 5mm distance and matches the ultrasound image grid to make the insertion easier. Together with the HDRplus Prostate module it can be used for live ultrasound guided treatment planning.

## ■ Unique Locking Mechanism

All needles can be locked simultaneously after insertion relatively to the template by using a thumb-screw to prevent needle movement during the treatment. The set also contains 10 reusable obturators for the Plastic Needles and 10 reusable Steel Needles to punch 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
- Compatible with a wide range of ultrasound units
- Needles can be locked simultaneously in the Template to prevent needle movement

## ■ Set Content

Quantity	Item	Part number
1	HDR Fixation Template, 16G reusable	LLZ12-04
60	Plastic Needle, sterile; D=1.65mm, L=200mm	LLA200-KB
2	Obturator for Plastic and Steel Needles, L=200mm (5 pcs)	LLH01-200
1	Steel Needle, d=1.7mm, L=200mm (5 pcs)	LLA200-S
1	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

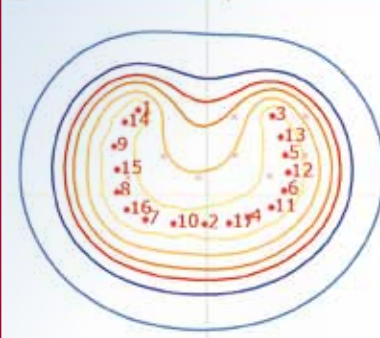
## ■ Required Items

Quantity	Item	Part number
20	Coupling for Plastic Needles	LLF50
20	Flexible Guide Tube, D=3mm, L=1000mm	LAF1000

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01

## ■ Isodose



## ■ Sterilization Box

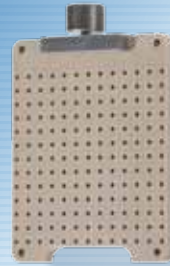
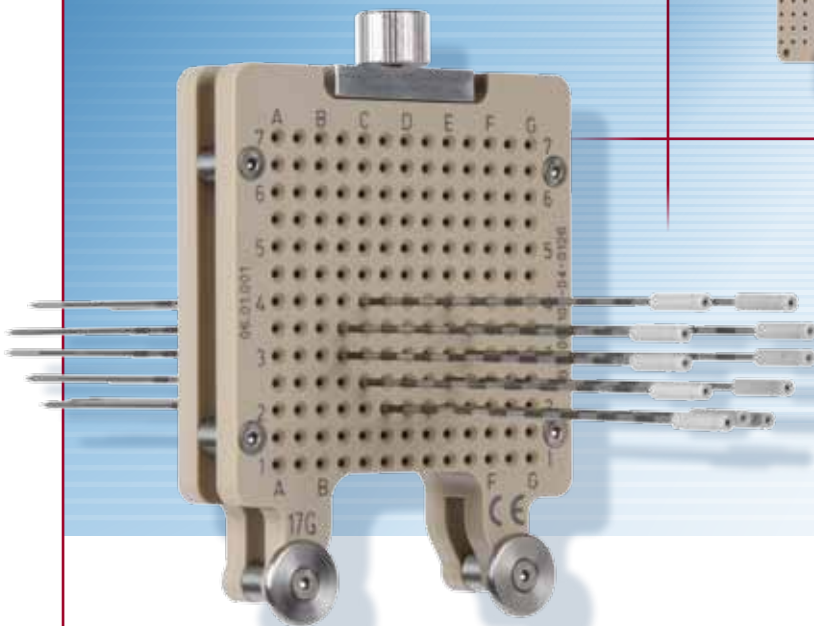


## ■ Flexible Guide Tube



# Prostate Set with Steel Needles

SET0071



## ■ Variable Length

The Prostate Set is used for perineal implantation of Steel Needles for HDR prostate treatment. The Set contains a 17G Fixation Template (reusable) and 210mm 17G disposable Steel Needles with corresponding obturators. The Template can be sterilized either by autoclave or EO. The Fixation Template can be mounted on a stepper for ultrasound guided treatment planning.

## ■ Patient Comfort

The Template is compatible with DK-Tech and CIVCO steppers, which are compatible with a wide range of ultrasound units. The grid of the Template contains holes (17G = 1,47mm) in 5mm distance and matches the ultrasound image grid to make the insertion easier. Together with the HDRplus Prostate module it can be used for real time ultrasound guided treatment planning.

## ■ Unique Locking Mechanism

All needles can be locked simultaneously after insertion relatively to the Template by using a thumbscrew to prevent needle movement during the treatment. The disposable Steel Needles are characterized by having the first possible dwell position at 5mm from the tip of the needle. This short distance prevents perforation of the bladder 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
- Compatible with a wide range of ultrasound units
- Needles can be locked simultaneously in the Template to prevent needle movement

## ■ Set Content

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

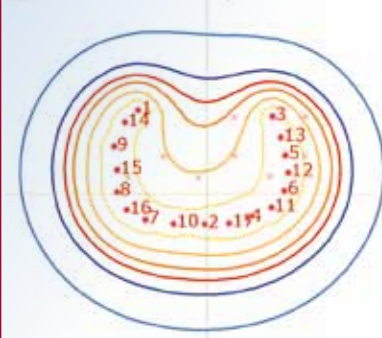
## ■ Required Items

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

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01

## ■ Isodose



## ■ Sterilization Box



## ■ Flexible Guide Tube

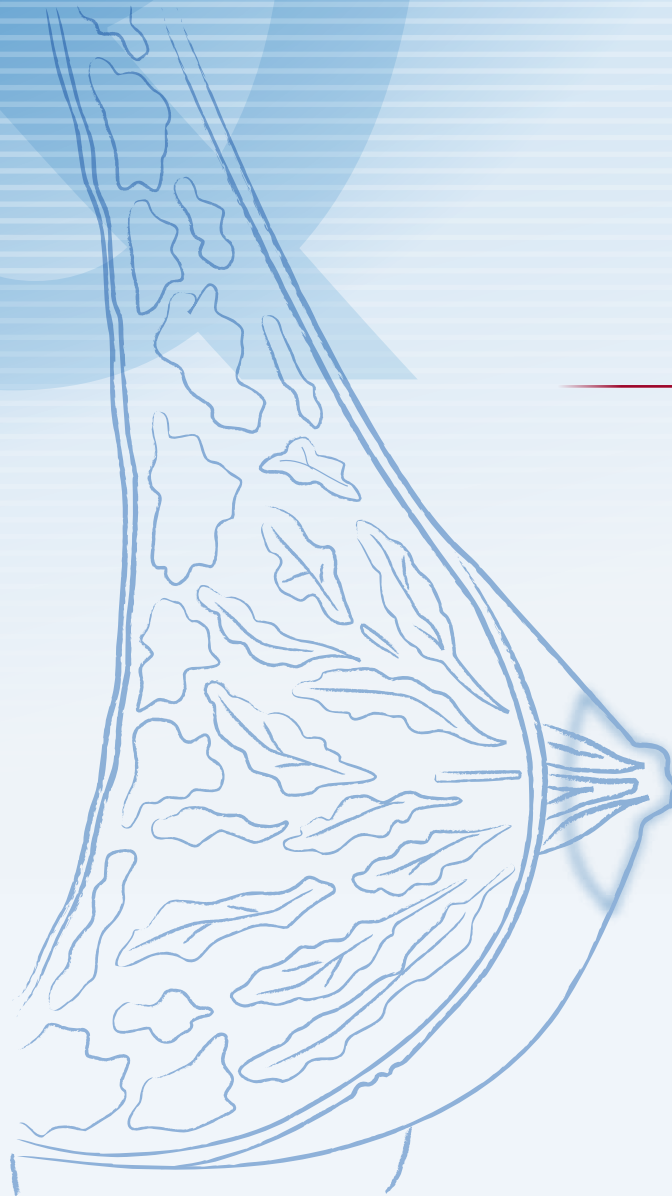




# C. Breast

## Breast Bridge

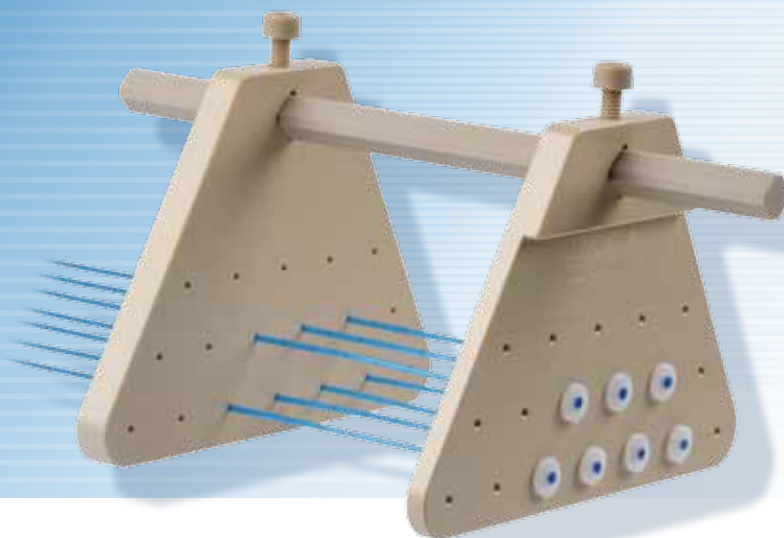
Fixation Buttons



Applicators

# Breast Bridge

SET0080



## ■ Boost or Monotherapy

The Breast Set has been designed for HDR interstitial breast brachytherapy treatments, either for boost treatments or for monotherapy. The Template can be used to follow the "Paris System"-rules for homogenous dose distribution.

## ■ Fitting Patient Anatomies

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 patient anatomy, 2 additional sizes of Templates are also available. The Template holes are positioned in equilateral triangles (Paris system) with side lengths of 12, 16 (Set Content), 8 and 20mm. All sizes of Templates have the same number of holes arranged in three rows with 7, 6 and 5 holes. The separation between the Templates is continuously variable between 0 and 180mm in order to fit to all patient anatomies.

## ■ Catheters or Needles

All Templates can be used together with IBt Bebig Flexible Catheters or Plastic Needles (all 16G).

## ■ Features

- Suitable for interstitial breast implants
- Breast Templates available in 4 different sizes
- Compatible with 16G Plastic Needles and 16G Flexible Catheters
- All parts can be steam sterilized
- CT/MR compatible

## ■ Set Content

Quantity	Item	Part number
1	Breast Template, triple plane, 12mm (Paris) without Button	LLZ21-12
1	Breast Template, triple plane, 16mm (Paris) without Button	LLZ21-16
1	Guide Pillar for Breast Template	LLZ20-01

## ■ Required Items

Quantity	Item	Part number
20	Flexible Catheter Single Leader, D=1,65mm, L=300mm*	LLA300-F
20	Hollow Needle for Flexible Catheter, 18G, L=200mm*	LLA200-H
1	Cutter for Flexible Catheter*	LAH06-01
20	Coupling for Plastic Needle	LLF50
20	Flexible Guide Tube, D=3mm, L=1000mm	LAF1000
2	Fixation Ball, d=1.6mm, D=7mm (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls**	LAH05-02

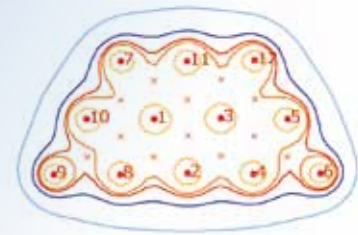
\*Alternative: Plastic Needles, D=1,65mm, L=200mm, 16G  
Obturator for Plastic and Steel Needles, L= 200mm (5 pcs)

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

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	Breast Template, triple plane, 8mm (Paris) without Button	LLZ21-08
1	Breast Template, triple plane, 20mm (Paris) without Button	LLZ21-20
1	Set of X-Ray Markers with Ruler for Needles	SET0030
1	Set of X-Ray Markers for Needles, L=325mm	SET0034

## ■ Interstitial



## ■ Coupling for Plastic Needle



## ■ Flexible Guide Tube



## ■ Opening Forceps for Fixation Balls



# Breast Bridge with Fixation Buttons

SET0081



## ■ Boost or Monotherapy

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

## ■ Fitting Patient Anatomies

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 patient anatomy, 2 additional sizes of Templates are also available. The Template holes are positioned in equilateral triangles (Paris system) with side lengths of 12, 16 (Set Content), 8 and 20mm. All sizes of Templates have the same number of holes arranged in three rows with 7, 6 and 5 holes. The separation between the Templates is continuously variable between 0 and 180mm in order to fit to all patient anatomies.

## ■ Fixation Buttons

All Templates can be used together with IBt Bebig Flexible Catheters or Plastic Needles (all 16G).

Each pair of Breast Template includes a Template with fixation buttons. The fixation buttons make it possible to remove the Template once the Flexible Catheters are already implanted.

## ■ Features

- Suitable for interstitial breast implants
- Build-in fixation buttons
- Breast Templates available in 4 different sizes
- Compatible with 16G Plastic Needles and 16G Flexible Catheters
- All parts can be steam sterilized
- CT/MR compatible

## ■ Set Content

Quantity	Item	Part number
1	Breast Template, triple plane, 12mm (Paris)	LLZ20-12
1	Breast Template, triple plane, 16mm (Paris)	LLZ20-16
1	Guide Pillar for Breast Template	LLZ20-01

## ■ Required Items

Quantity	Item	Part number
20	Flexible Catheter Single Leader*	LLA300-F
20	Hollow Needle for Flexible Catheter*	LLA200-H
1	Cutter for Flexible Catheter*	LAH06-01
20	Coupling for Plastic Needles	LLF50
20	Flexible Guide Tube, D=3mm, L=1000mm	LAF1000
2	Fixation Balls (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls**	LAH05-02

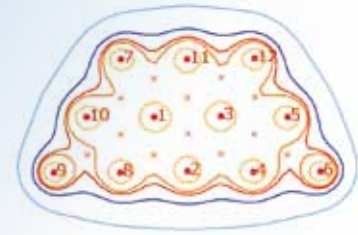
\*Alternative:  
*Plastic Needle, sterile* LLA200-KB  
*Steel Needles* LLA210-S  
*Obturator for Plastic Needles* LLH01-200

\*\* Opening Forceps are needed to position the fixation balls

## ■ Optional Items

Quantity	Item	Part number
1	Sterilization Box for Applicators	LLZ05-01
1	Breast Template, triple plane, 8mm (Paris) with Button	LLZ20-08
1	Breast Template, triple plane, 20mm (Paris) with Button	LLZ20-20
1	Set of X-Ray Markers with Ruler for Needles	SET0030
1	Set of X-Ray Markers for Needles, L=325mm	SET0034

## ■ Interstitial



## ■ Coupling for Plastic Needle



## ■ Flexible Guide Tube



## ■ Opening Forceps for Fixation Balls

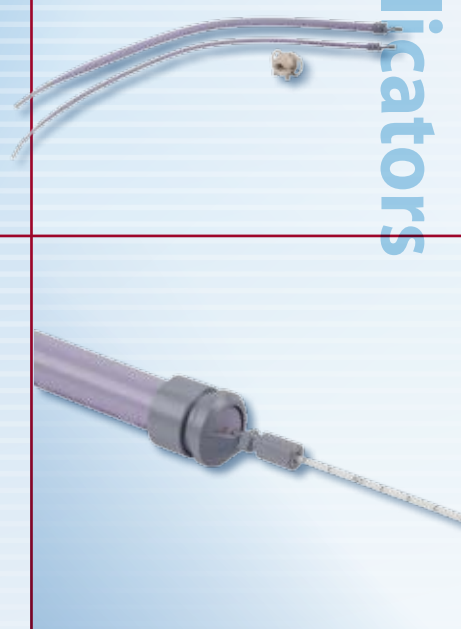
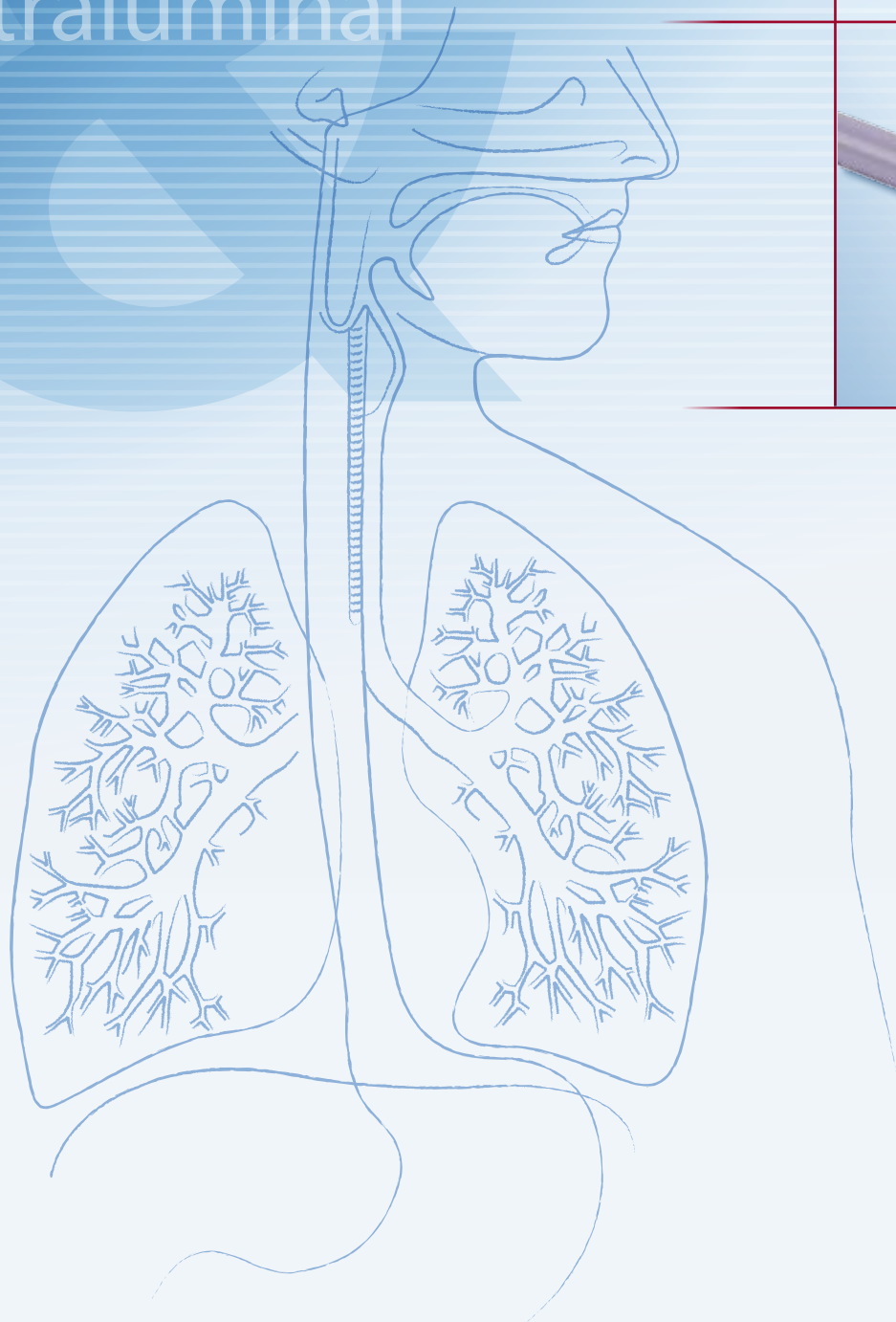




# D. Esophagus & Bronchus

## Esophagus Bronchus

### Intraluminal



Applicators

# Esophagus Set

SET0019



## ■ Variable Diameter

The Esophagus Set has been designed for HDR brachytherapy treatment of the Esophagus. The Set contains 6 reusable Bougie Applicators in different diameters, reusable Adapters for the fixation of the Universal Catheter inside the Bougie, Guidewires for Seldinger Technique and a reusable Mouth piece.

## ■ Patient Comfort

The different diameters of the Bougie ensure an optimal radial distance by keeping the Esophagus mucosa away from area of high dose-gradient. Using a 2mm Universal Applicator inside of the Bougie Applicator ensures a centered radial position of the source in respect to the treated tissue. This applicator is fixed to the Bougie with help of special adapters which prevent the longitudinal movement of the Universal Applicator inside the Bougie.

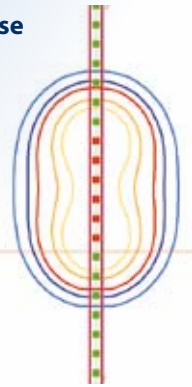
## ■ Versatile Design

The Bougie Applicator can be inserted either under fluoroscopy or by using the Guidewires for Seldinger Technique under endoscopic examination. The reusable Mouth piece is compatible with all different Bougie Applicators of the Set. It immobilizes any applicator diameter from 8mm to 18mm. 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
- Large variety of different Bougie diameters to ensure an optimal distance from the source to the treated tissue
- Contains reusable Mouth Piece and Fixation Adapters
- Guidewires for Seldinger Technique
- CT compatible

## ■ Isodose



## ■ Set Content

Quantity	Item	Part number
1	Bougie D=8mm (24 Fr), L=700mm	LAZ02-08
1	Bougie D=10mm (30 Fr), L=700mm	LAZ02-10
1	Bougie D=12mm (36 Fr), L=700mm	LAZ02-12
1	Bougie D=14mm (42 Fr), L=700mm	LAZ02-14
1	Bougie D=16mm (48 Fr), L=700mm	LAZ02-16
1	Bougie D=18mm (52Fr), L=700mm	LAZ02-18
1	Mouth Piece for Bougie	LAZ01-01
1	Applicator Fixation for Bougie, D=8mm	LAZ01-08
1	Applicator Fixation for Bougie, D=10mm	LAZ01-10
1	Applicator Fixation for Bougie, D=12mm	LAZ01-12
1	Applicator Fixation for Bougie, D=14mm	LAZ01-14
1	Applicator Fixation for Bougie, D=16mm	LAZ01-16
1	Applicator Fixation for Bougie, D=18mm	LAZ01-18
1	Cleaning Brush for Bougie	LAZ01-02
1	Cleaning Adapter for Bougie (25 pcs)	LAZ01-03
1	Guidewire for Bougie, marked, 0.89mm	LAZ01-05

## ■ Sterilization Box



## ■ Required Items

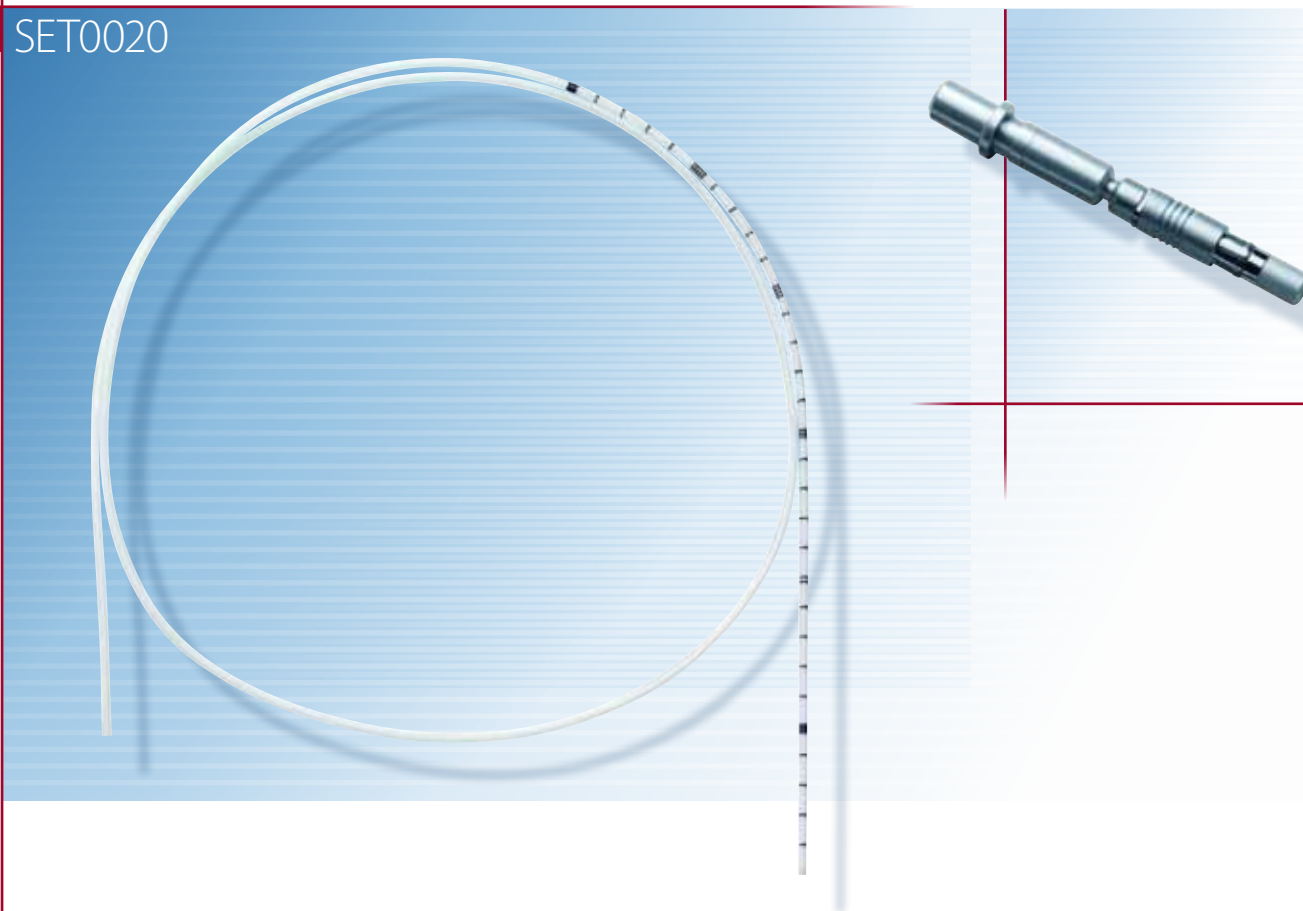
Quantity	Item	Part number
1	Universal Applicator, marked, D=2mm, L=1200mm (sterile)	LLA1200-20
1	Connector for Universal Applicator	LLS50

## ■ Optional Items

Quantity	Item	Part number
1	X-Ray Marker with ruler 5:5	LLH02-22
1	Sterilization Box for Applicators	LLZ05-01

# Bronchus Intraluminal Set

SET0020



## ■ 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 2mm and a length of 1200mm, 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 smaller lumen.

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

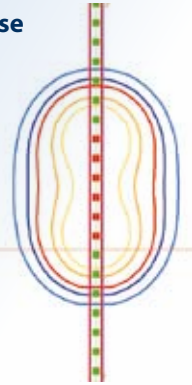
## ■ Features

- Small diameter allows easy insertion into small lumen
- Universal applicators are delivered sterile
- X-Ray Markers for easy identification during treatment planning

## ■ Set Content

Quantity	Item	Part number
2	Connector for Universal Applicator, d=2mm	LLS50
15	Universal Applicator, d=2mm, L=1200mm	LLA1200-20
1	X-Ray Marker with Ruler 10:10, d=1.2mm, L=1230mm	LLH02-21
1	X-Ray Marker with Ruler 5:5, d=1.2mm, L=1230mm	LLH02-22

## ■ Isodose

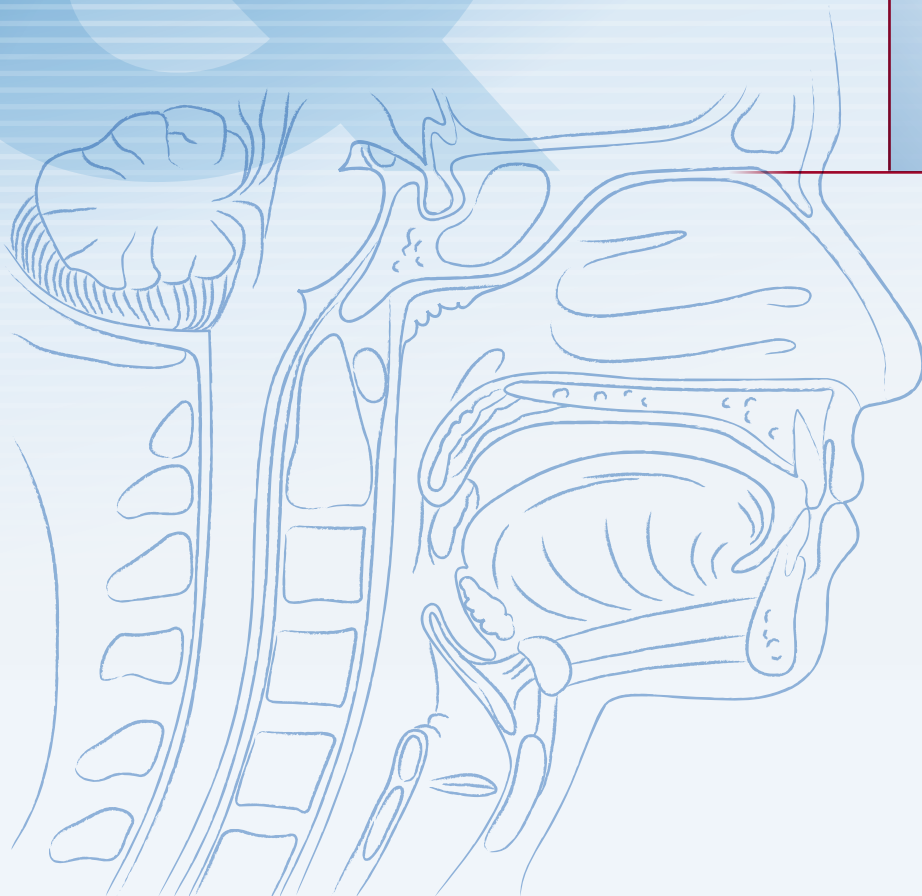
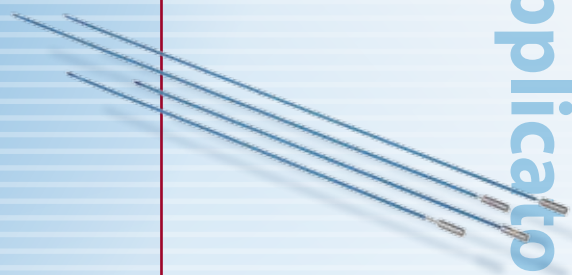




# E. Head & Neck

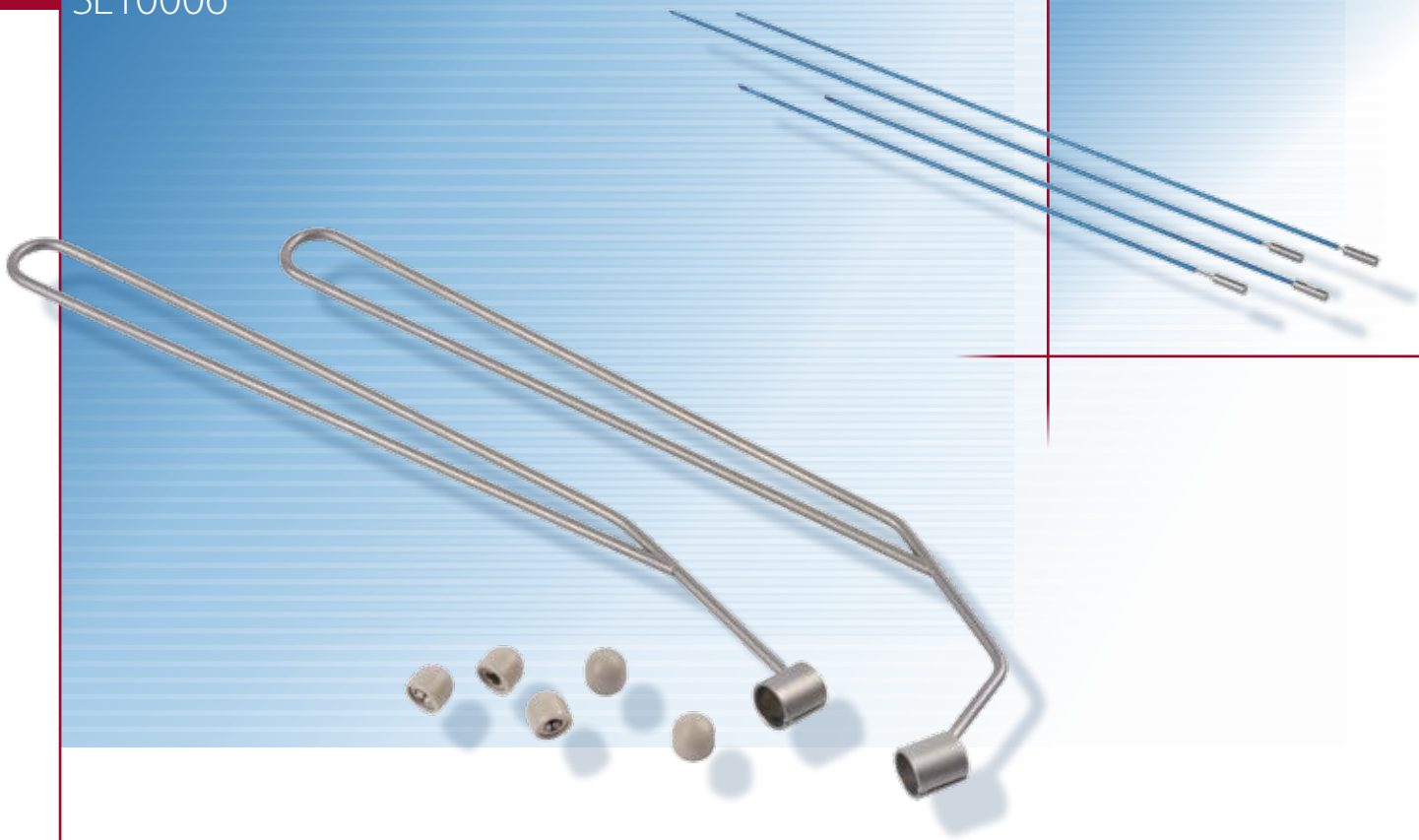
Tongue  
& Mouth  
Head  
Neck

Applicators



# Tongue and Mouth Applicator Set

SET0006



## ■ Easy Insertion

The Tongue and Mouth Applicator Set is ideal for the brachytherapy of the tongue and floor of the mouth. The 1.65mm Plastic Needles are designed to be easily inserted with an obturator in order to accurately implant the target volume. The fixation caps are specifically designed to cover the needle tips and provide patient comfort.

## ■ Unique Fixation

The set includes two Holders for Fixation Caps which are anatomically shaped. The Holders are designed to attach the caps in the glossal or subglossal area. Fixation Balls ensure that the needles remain in place.

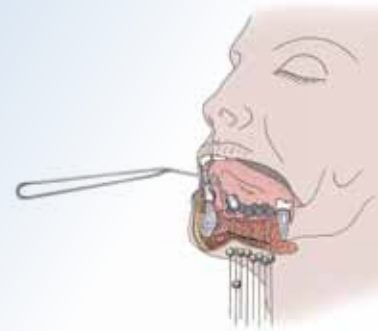
## ■ Optimal Dose Distribution

By providing the tools to easily implant this difficult area, it is now possible to obtain an optimal dose distribution which completely encompasses the target volume. The Tongue and Mouth Applicator Set streamlines interstitial brachytherapy and increases the patient's comfort during treatment.

## ■ Features

- Fixation Caps provide patient comfort during treatment
- Individual needle implants allow for optimal dose distribution
- Fixation Cap Holders easily attach the caps to the needles while maintaining the implant geometry
- Needles and obturators are designed for added rigidity and easy insertion
- Tongue and Mouth Applicator Set streamlines the implant procedure

## ■ Application



## ■ Set Content

Quantity	Item	Part number
20	Fixation Cap for Plastic Needle	LLZ02-01
2	Fixation Ball (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls	LAH05-02
1	Holder for Fixation Cap, glossal	LAH04-01
1	Holder for Fixation Cap, subglossal	LAH04-02
20	Plastic Needles, D=1,65mm, L=150mm, 16G	LLA150-KB
1	Obturator for Plastic Needles	LLH01-150

## ■ Required Items

Quantity	Item	Part number
1	Coupling for Plastic Needles	LLF50
1	Flexible Guide Tube, D=3mm, L=1000mm	LAF1000

## ■ Optional Items

Quantity	Item	Part number
1	X-Ray Marker	SET0030
1	X-Ray Marker	SET0034

## ■ Coupling for Plastic Needle



## ■ Flexible Guide Tube





# F. Interstitial

## Skin Needles

Flexible Catheters



Applicators

# Plastic Needles

SET0012



## ■ Head, Neck, Breast and Prostate

The Plastic Needle Set has been designed for several HDR interstitial brachytherapy treatments including head and neck, breast and prostate.

## ■ Meeting Clinical Needs

The set contains 20 Plastic Needles, 16G with an outside diameter of 1,65mm and a length of 200mm. Also included are reusable obturators which serve to maintain needle stability during implantation and prevent kinking and damaging the needles.

Before inserting a Plastic Needle, a reusable Steel Needle is used to create the implantation channel.

The needles can be used with or without the corresponding templates. Plastic Needles are provided sterile for prompt clinical use and are intended for single use only. To avoid waste of

sterile needles, packages containing both, 5 pieces and 1 piece per package, are provided.

Obturators are reusable and can be resterilized using steam sterilization. Plastic Needles are also available in lengths of 150mm and 300mm, together with corresponding obturator, to meet clinical needs. They can be ordered separately.

## ■ Secure Fixation and Better Visibility

Optional Fixation Balls for secure fixation to the patient and X-Ray markers for better visibility on X-Ray images can be ordered as well.

## ■ Features

- Suitable for interstitial treatments
- Plastic Needles are delivered sterile
- Plastic Needles are available in lengths of 150mm, 200mm and 300mm
- Obturators (150, 200, 300mm) are reusable and can be steam sterilized
- Plastic Needles are CT/MR compatible
- Packages of 5 and 1 pieces ( 75%/25%, respectively, of your order)
- Different templates e.g. for prostate and breast are available

## ■ Set Content

Quantity	Item	Part number
20	Plastic Needle (10 pcs), D=1,65mm, L=200mm, 16G*	LLA200-KB
1	Obturator for Plastic and Steel Needles (5 pcs) **	LLH01-200
1	Steel Needle L=200mm (5 pcs)	LLA200-S
1	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

\*Alternative to LLA200-KB:

Plastic Needle, D=1,65mm, L=150mm

LLA150-KB

Plastic Needle, D=1,65mm, L=300mm

LLA300-KB

\*\*Alternative to LLH01-200:

Obturator for Steel Needles, L=150mm

LLH01-150

Obturator for Plastic Needles, L=300mm

LLH01-300

## ■ Required Items\*\*\*

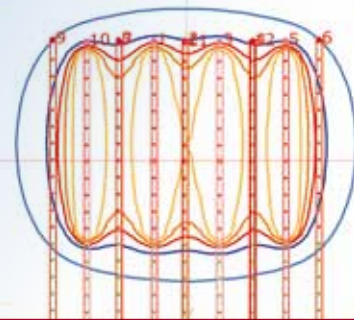
Quantity	Item	Part number
20	Coupling for Plastic Needles	LLF50
20	Flexible Guide Tube, D=3mm, L=1000mm	LAF1000

\*\*\*Not included in the set, must be ordered separately

## ■ Optional Items

Quantity	Item	Part number
1	Set of X-Ray Markers with Ruler for Needles	SET0030
1	Set of X-Ray Markers for Needles, L=325mm	SET0034
1	Channel Coding for Applicators for Channel 1 up to 20	LLZ03-01 to LLZ03-20
1	Coding for Transfer Tube Channel 1 to 20	LLZ04-01
1	Fixation Balls, d=1,6mm, D=7mm (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls	LAH05-02

## ■ Isodose



## ■ Coupling for Plastic Needle



## ■ Flexible Guide Tube



# Flexible Catheters

SET0051



## ■ Breast, Head and Neck

The Flexible Catheter Set has been designed for HDR interstitial brachytherapy treatments, especially for breast, head and neck treatments.

## ■ Easy Insertion

The set contains 20 Flexible Catheters with an outside diameter of 1,65mm and a length of 300mm, 20 Stainless Steel Hollow Needles for easy implantation of the Catheters and 1 Cutter for the Flexible Catheters.

The Catheters are also available in lengths of 200mm and 500mm. All Catheters are Single Leader Catheters with stop buttons which prevent the Catheter from moving into the tissue after insertion. No extra fixation buttons are necessary on this side. Integrated core filaments prevent kinking and

damage of the Catheters during insertion. This core can be easily removed before treatment, and can be reinserted between fractions to avoid kinking of the Catheters.

Catheters and Hollow Needles are provided sterile allowing for immediate clinical use and are single use only.

## ■ Secure Fixation and Better Visibility

Optional Fixation Balls for secure fixation to the patient and X-Ray Markers for better visibility on X-Ray images are also available.

## ■ Features

- Single leader Flexible Catheter with stop buttons
- Integrated core filament for increased stability
- Available in 200mm, 300mm and 500mm
- Flexible Catheters and Hollow Needles are delivered sterile
- CT compatible

## ■ Set Content

Quantity	Item	Part number
1	Cutter for Flexible Catheters	LAH06-01
20	Flexible Catheter Single Leader, D=1,65mm, L=300mm*	LLA300-F
20	Hollow Needle for flexible Catheter, 18G, L=200mm**	LLA200-H

\*Alternative: Flexible Catheter Single Leader, D=1,65mm, L=200mm LLA200-F  
 Flexible Catheter Single Leader, D=1,65mm, L=500mm LLA500-F  
 (using the LLA500F, LAF800 is needed too)

\*\*Alternative: Hollow Needles for Flexible Catheter, 18G, L=150mm (20 pcs) LLA150-H

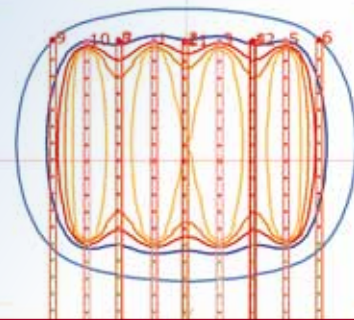
## ■ Required Items

Quantity	Item	Part number
20	Flexible Guide Tube, D=3mm, L=1000mm	LAF1000
20	Coupling for Plastic Needles	LLF50

## ■ Optional Items

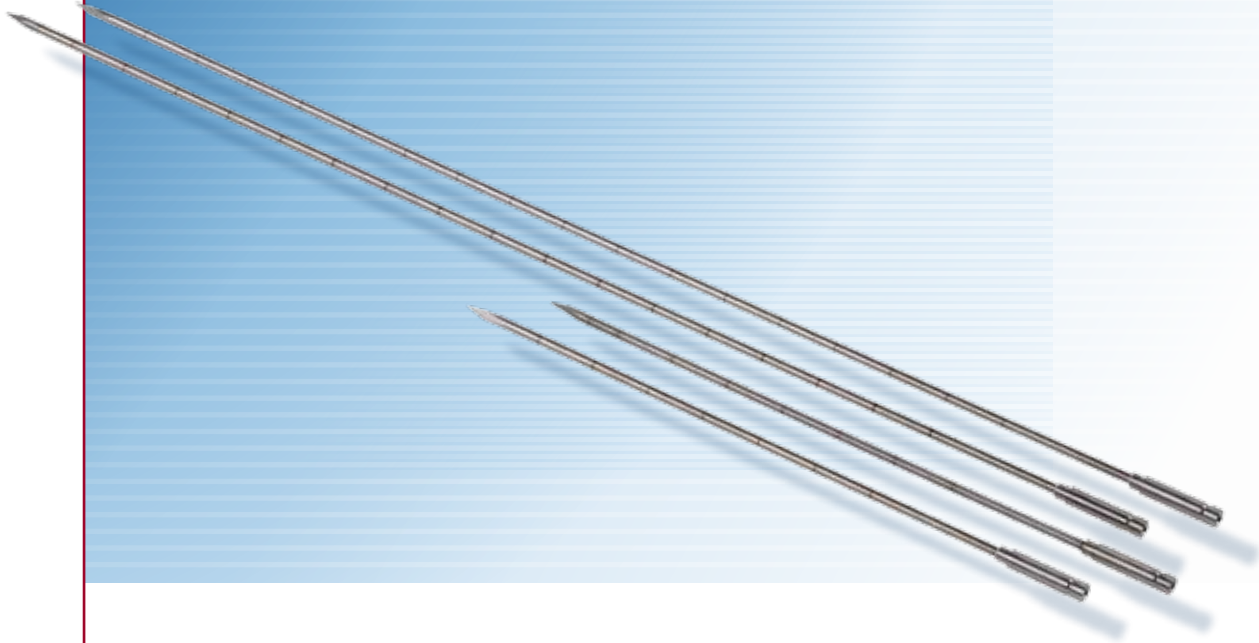
Quantity	Item	Part number
2	Fixation Balls, d=1,6mm, D=7mm (10 pcs)	LLZ06-05
1	Opening Forceps for Fixation Balls	LAH05-02
1	Channel Coding for Applicators for Channel 1 up to 20	LLZ03-01 to LLZ03-20
1	Transfer Tube Coding	LLZ04-01
1	Set of X-Ray Markers with Ruler for Needles	SET0030
1	Set of X-Ray Markers for Needles, L=325mm	SET0034

## ■ Isodose



# Interstitial Needle Set

SET0003



## ■ Wide Range of Applications

The Interstitial Needle Set is designed to cover a wide range of applications. The Set includes obturators, making it possible to insert the 1.7mm Stainless Steel Needles both with and without a template. The Steel Needles are reusable and can be sterilized by steam sterilization.

## ■ Easy Needle Placement

The Steel Needles are designed with a beveled edge in order to easily glide through tissue. The tip is extremely rigid and will not become dull after repeated use.

## ■ Essential for Interstitial Brachytherapy

The Set will enable the clinic to treat a wide variety of target areas. The Interstitial Needle Set is an essential component in interstitial brachytherapy.

## ■ Features

- Stainless Steel Needles are compatible to meet clinical requirements
- Applicator set is reusable; reprocessing via automatic cleaning and disinfection; steam sterilization

## ■ Sterilization Box



## ■ Set Content

Quantity	Item	Part number
20	Stainless Steel Needle, d=1,7mm, L=100mm	LLA100-S
20	Stainless Steel Needle, d=1,7mm, L=200mm	LLA200-S
5	Obturator for Steel Needles, L=100mm	LLH01-100
5	Obturator for Plastic and Steel Needles, L=200mm	LLH01-200
6	Sealing Cap for LCTXX-XX and Steel Needles (10 pcs)	LAZ17-03

## ■ Opening Forceps for Fixation Balls



## ■ Required Items

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

## ■ Optional Items

Quantity	Item	Part number
1	Set of X-Ray Markers with Ruler for Needles	SET0030
1	Set of X-Ray Markers for Needles, L=325mm	SET0034
1	Fixation Ball, d=1.7mm, D=7mm	LLZ06-03
1	Opening Forceps for Fixation Ball	LAH05-02
1	Sterilization Box for Applicators	LLZ05-01

## ■ Flexible Guide Tube





# G. Accessories

X-Ray

Markers

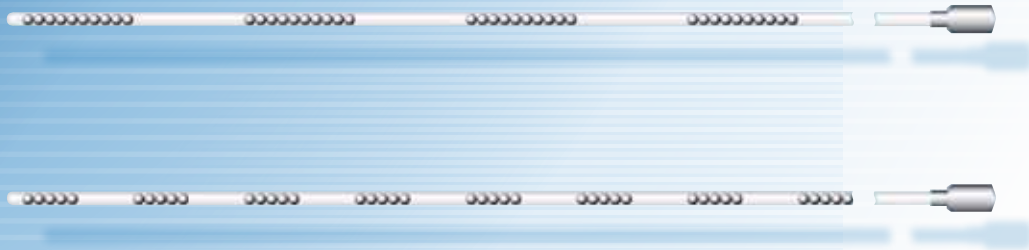


Applicators



# X-Ray Marker Set with Ruler for Needles (L=325mm)

SET0030



## ■ Unique Ruler Configuration

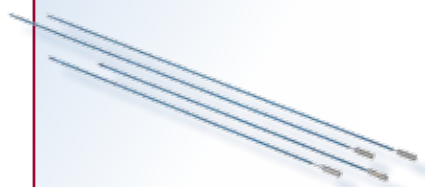
The Markers are designed with a unique configuration of radiopaque tags and spacers with a length of 5 or 10mm. Tags and spacers serve as a ruler to measure distances on X-Ray images. Due to two different combinations of tags and spacers it is possible to have two distinct rulers at the same time.

## ■ Simplified Treatment Planning

The use of the X-Ray Markers to identify the needles and potential source positions simplifies treatment planning. With a length of 325mm, the Markers can be used with all needles. The X-Ray Markers Set is an essential tool for interstitial brachytherapy.

## ■ Features

- Markers have unique radiopaque tags for ease in reconstruction
- Tags and spacers serve as a ruler to measure distances on images
- X-Ray Markers are clearly visible on radiographic imaging
- X-Ray Markers streamline the treatment planning process
- Marker Set is reusable



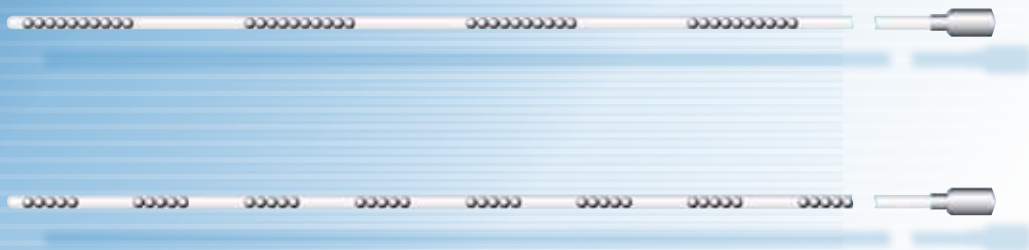
## ■ Set Content

Quantity	Item	Part number
1	X-Ray Marker with Ruler 10:10, D=1.2mm, L=325mm	LLH02-01
1	X-Ray Marker with Ruler 5:5, D=1.2mm, L=325mm	LLH02-02



# X-Ray Marker Set with Ruler (L=1030mm)

SET0031



## ■ Unique Ruler Configuration

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

## ■ Simplified Treatment Planning

The use of the X-Ray Markers to identify the Universal Applicators and potential source positions simplifies treatment planning. With a length of 1030mm, the Markers are designed to be used with Universal Applicator LAA1000-RU. The X-Ray Markers Set is an essential tool for intraluminal, intraoperative, esophageal, bileduct and endometrial brachytherapy.

## ■ Features

- Markers have unique radiopaque tags for ease in reconstruction
- Tags and spacers serve as a ruler to measure distances on images
- X-Ray Markers are clearly visible on radiographic imaging
- X-Ray Markers are designed for use with the Universal Applicator LAA1000-RU
- X-Ray Markers streamline the treatment planning process
- Marker Set is reusable

## ■ Set Content

Quantity	Item	Part number
1	X-Ray Marker with Ruler 10:10, D=1.2mm, L=1030mm	LLH02-05
1	X-Ray Marker with Ruler 5:5, D=1.2mm, L=1030mm	LLH02-06

# X-Ray Marker Set with Ruler (L=1430mm)

SET0032



## ■ Unique Ruler Configuration

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

## ■ Simplified Treatment Planning

The use of the X-Ray Markers to identify the Universal Applicators and potential source positions simplifies treatment planning. With a length of 1430mm, the Markers are designed to be used with a Universal Applicator LAA1400-RU. The X-Ray Markers Set is an essential tool for intraluminal, intraoperative, esophageal, bileduct and endometrial brachytherapy.

## ■ Features

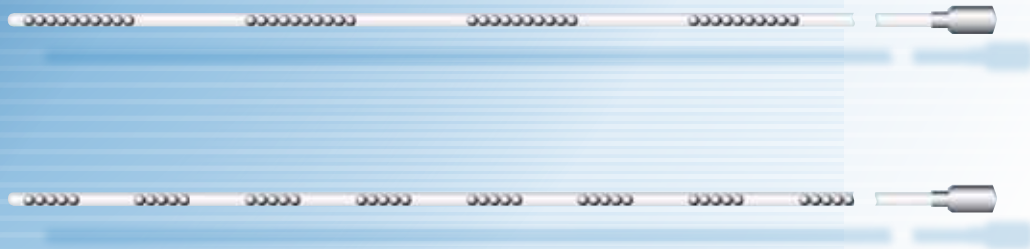
- Markers have unique radiopaque tags for ease in reconstruction
- Tags and spacers serve as a ruler to measure distances on images
- X-Ray Markers are clearly visible on radiographic imaging
- X-Ray Markers are designed for use with the Universal Applicator LAA1400-RU
- X-Ray Markers streamline the treatment planning process
- Marker Set is reusable

## ■ Set Content

Quantity	Item	Part number
1	X-Ray Marker with Ruler 10:10, D=1.2mm, L=1430mm	LLH02-11
1	X-Ray Marker with Ruler 5:5, D=1.2mm, L=1430mm	LLH02-12

# X-Ray Marker Set with Ruler (L=1230mm)

SET0033



## ■ Unique Ruler Configuration

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

## ■ Simplified Treatment Planning

The use of the X-Ray Markers to identify the Universal Applicators and potential source positions simplifies treatment planning. With a length of 1230mm, the Markers are designed to be used with Universal Applicator LLA-1200-RU. The X-Ray Markers Set is an essential tool for intraluminal, intraoperative and bileduct brachytherapy.

## ■ Features

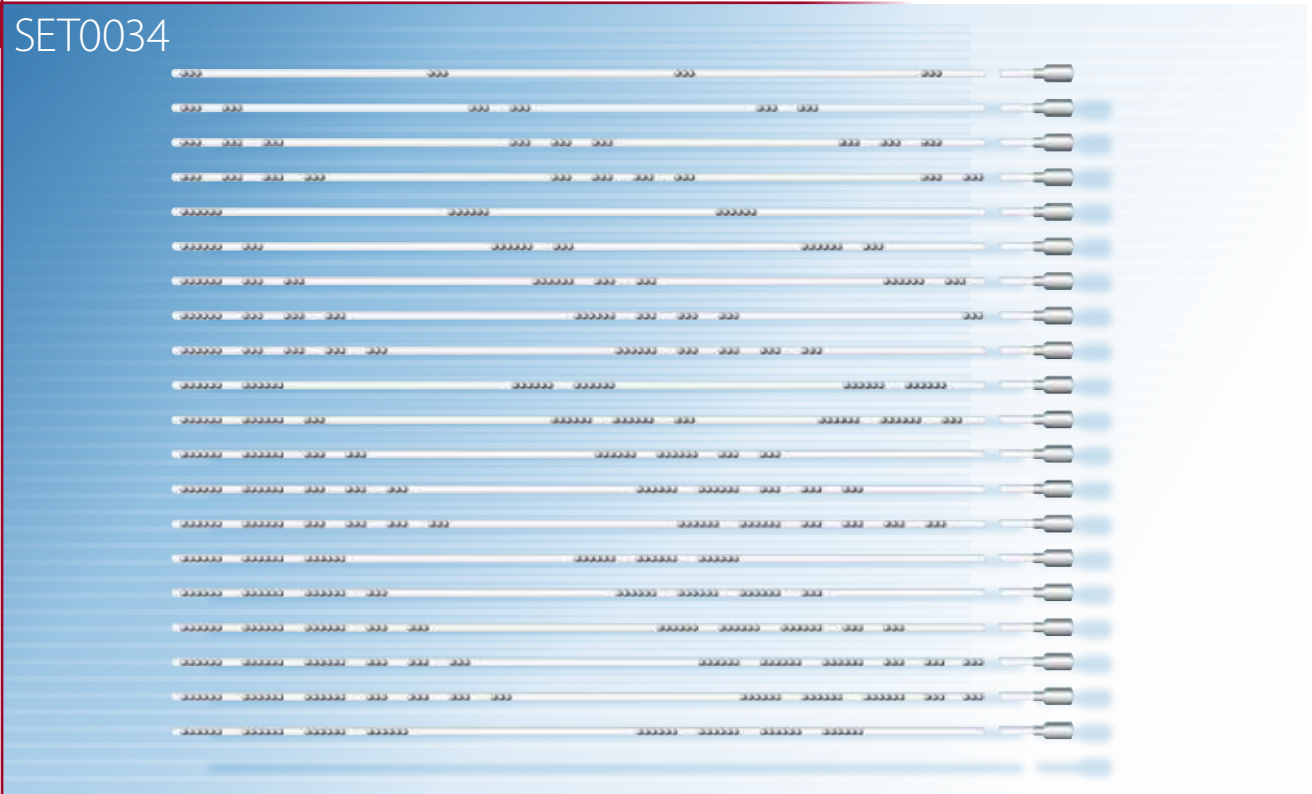
- Markers have unique radiopaque tags for ease in reconstruction
- Tags and spacers serve as a ruler to measure distances on images
- X-Ray Markers are clearly visible on radiographic imaging
- X-Ray Markers are designed for use with the Universal Applicator LLA1200-20
- X-Ray Markers streamline the treatment planning process
- Marker Set is reusable

## ■ Set Content

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

# X-Ray Marker Set for Needles (L=325mm)

SET0034



## ■ Precise Interstitial Needle Identification

The X-Ray Marker Set is 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

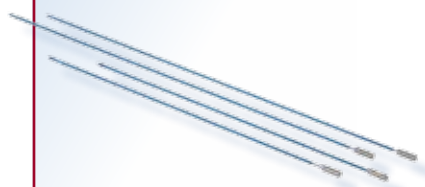
Each Marker is designed with its own unique configuration of radiopaque tags. Different patterns of tags and spacers allow for the identification of up to 20 individual needles on the radiographic images.

## ■ 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 Marker has a unique radiopaque tag for ease in reconstruction
- X-Ray Markers are clearly visible on radiographic imaging
- X-Ray Markers streamline the treatment planning process
- Marker Set is reusable



## ■ Set Content

Quantity	Item	Part number
1	X-Ray Marker 11, L=325mm	LAH02-11
1	X-Ray Marker 12, L=325mm	LAH02-12
1	X-Ray Marker 13, L=325mm	LAH02-13
1	X-Ray Marker 14, L=325mm	LAH02-14
1	X-Ray Marker 15, L=325mm	LAH02-15
1	X-Ray Marker 16, L=325mm	LAH02-16
1	X-Ray Marker 17, L=325mm	LAH02-17
1	X-Ray Marker 18, L=325mm	LAH02-18
1	X-Ray Marker 19, L=325mm	LAH02-19
1	X-Ray Marker 20, L=325mm	LAH02-20
1	X-Ray Marker 21, L=325mm	LAH02-21
1	X-Ray Marker 22, L=325mm	LAH02-22
1	X-Ray Marker 23, L=325mm	LAH02-23
1	X-Ray Marker 24, L=325mm	LAH02-24
1	X-Ray Marker 25, L=325mm	LAH02-25
1	X-Ray Marker 26, L=325mm	LAH02-26
1	X-Ray Marker 27, L=325mm	LAH02-27
1	X-Ray Marker 28, L=325mm	LAH02-28
1	X-Ray Marker 29, L=325mm	LAH02-29
1	X-Ray Marker 30, L=325mm	LAH02-30



# Applicator Clamp with Baseplate

LAZ22-01



## ■ Essential for Gynaecological Brachytherapy

The Applicator Clamp with baseplate is an essential accessory for gynaecological brachytherapy. This tool provides stability and immobilisation of the applicator during treatment.

## ■ Easy Handling

The Applicator Clamp is designed to easily attach to any gynaecological applicator. The multiple joints allow to adjust the Clamp to any position. The 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 immobilising the applicator during gynaecological brachytherapy treatment.

## ■ Features

- The Applicator Clamp provides applicator stability and immobilisation
- The Applicator Clamp is flexible and can be placed in any position
- Fixation of applicators is easy and adjustable
- The Baseplate provides added support and stability
- Reusable accessory for years of clinical use

## ■ Set Content

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

# Reconstruction Box

LAZ11-04



## ■ Support of Non-Isocentric Reconstruction

The Reconstruction Box is an important accessory for brachytherapy imaging supporting none isocentric X-Ray units. The Reconstruction Box is easy to use and provides accurate implant reconstruction with semi-orthogonal films.

## ■ Cross-Hair Markers

The Reconstruction Box consists of an acrylic frame with strategically embedded radiopaque cross-hairs that are visible on the orthogonal radiographs. The implant can easily be reconstructed in 3D space with the treatment planning system.

## ■ Perfect for Imaging during Surgery

The Reconstruction Box is perfect for imaging with a C-Arm during surgery and is large enough to accommodate any treatment area. It is a necessity for precise treatment planning and implant reconstruction in any clinical setting.

## ■ Features

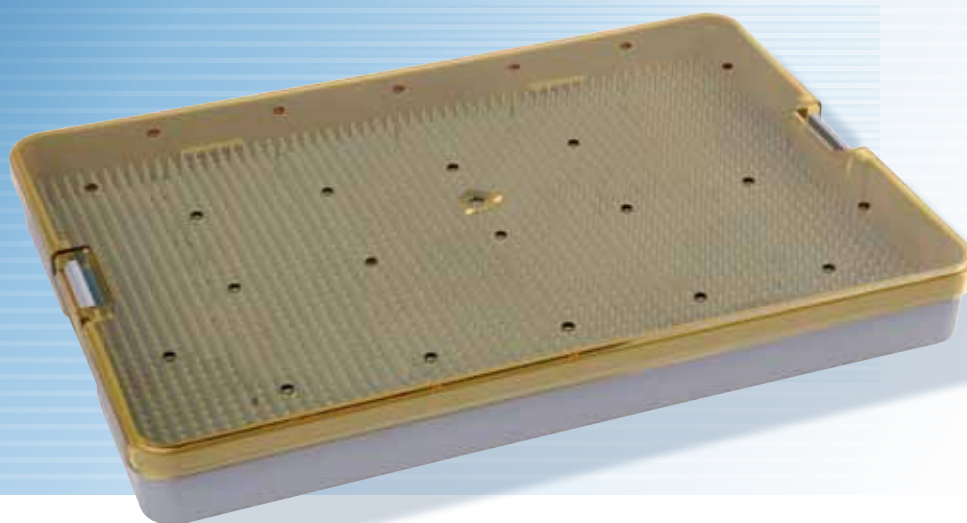
- The Reconstruction Box is designed for use with various implant sites
- It is excellent for accurate reconstruction using non isocentric X-Ray units
- Suitable for use in surgery when filming with a C-Arm or mobile unit
- Implant reconstruction simplified during treatment planning
- Lightweight and reusable for years of clinical use

## ■ Set Content

Quantity	Item	Part number
1	Reconstruction Box	LAZ11-04

# Sterilization Box

LLZ05-01



## ■ Sterilization and Storage

The Sterilization Box provides a reusable container for applicators during autoclave sterilization. The box is available in one size and can be used for all reusable IBt Bebig applicators. A special universal insert holds all parts of an applicator set in place and provides a good overview to make selecting the necessary items for treatment in the OR very simple.

The Box is made of heavy duty plastic to assure many sterilization cycles. The Sterilization Box can also be used as storage container for the applicator sets. The transparent removable cover allows looking into the box without opening.

For small parts like screws, clamps and fixation buttons a special container is available which needs to be ordered separately.

■ **Features**

- The Sterilization Box provides a reusable container for all reusable IBt Bebig applicators.
- Size: 381x254x38.1mm

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