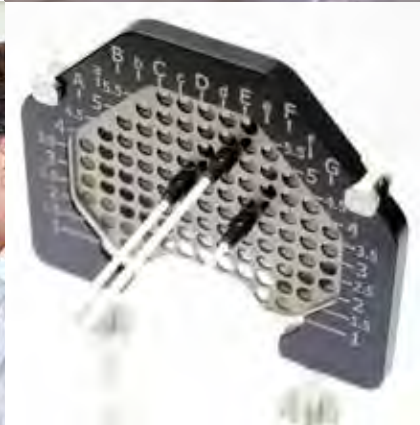
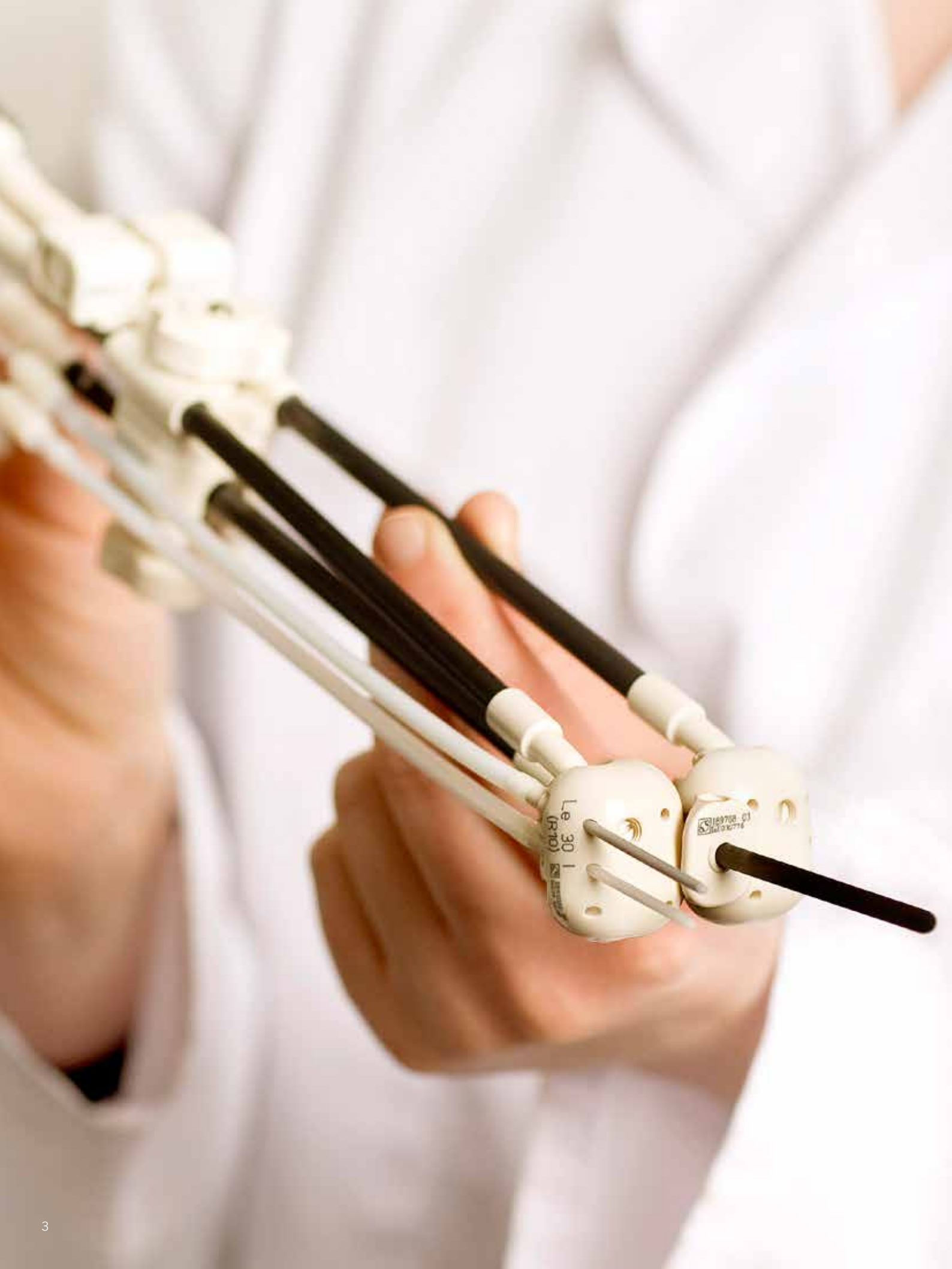




# Brachytherapy Applicator and Accessory Guide





At Elekta we believe that our solutions, services and extensive knowledge of precisely targeted radiation therapy play a vital role in the successful treatment of cancer. Our key technological advances have resulted in an integrated package of brachytherapy treatment planning and delivery systems. This applicator guide provides a comprehensive overview of the Elekta applicator portfolio for brachytherapy.

### **Elekta Brachytherapy**

Elekta Brachytherapy solutions are part of Elekta's leading radiation therapy portfolio and encompass 40 years of Nucletron® innovations. The latest advancements include Flexitron® treatment delivery, new Oncentra® Brachy treatment planning modules, and a variety of new and innovative applicators.

### **Industry-leading brachytherapy applicator portfolio**

Applicators are a pivotal part of Elekta's fully integrated solutions. With a broad portfolio of dedicated applicators, we offer a complete applicator range for more than 15 types of cancer in a variety of anatomies, developed in close collaboration with clinical experts. With applicators that are leading in 3D imaging compatibility as well as a legacy of 2D products, you can select from the largest applicator portfolio to match your choice of treatment and clinical set-up.

### **Flexitron® treatment delivery**

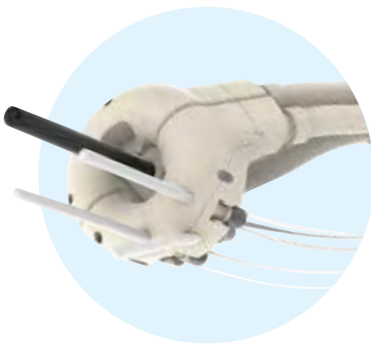
Elekta's afterloading platforms have established an unparalleled reputation for reliability, safety and performance in treatment delivery. Their all-in-one versatility and unmatched flexibility, prove their value on a daily basis in the majority of brachytherapy institutes around the world.

The new 'Safety through simplicity' Flexitron family is designed for safety and better team efficiency. With more logic and fewer variables the Flexitron afterloading platform optimizes the treatment delivery process and offers you a safe investment for today and in the future.

### **Oncentra® Brachy treatment planning**

With the Oncentra Brachy treatment planning system, the creation of highly conformal plans in an efficient workflow is within reach. The latest version of Oncentra Brachy offers a series of useful tools that facilitate many repetitive tasks for you, such as contouring and reconstruction. Oncentra Brachy buys you time to focus on what counts: designing the optimal dose distribution.

When Oncentra Brachy treatment planning is used in combination with the new Flexitron afterloading platform, you will optimally benefit from a number of smart and standardized features, that allow an easy, standardized way of treatment planning – while feeling confident about accurate and safe treatment delivery.






## How to use this applicator guide

In this applicator guide, brachytherapy applicators are presented by body site. When a particular applicator can also be used for other body sites, a cross reference is given on the index-page at the start of the relevant applicator section.

The applicators and accessories in this guide are designed for use with the Flexitron and microSelectron afterloaders only. Applicators and accessories that are specific to only the Flexitron or only the microSelectron afterloader(s) are so indicated. Corresponding transfer tubes, x-ray catheters and CT and MRI markers per applicator and afterloader type can be found in the appendices.

### Consumables information:

-  single use, delivered sterile
-  single use, delivered non-sterile
-  multiple use, delivered non-sterile

### Sterilization advice

Sterilization advice provided in this document is indicative and applies to newly purchased applicators. For more information regarding sterilization of a particular applicator, please consult the User Manual or Sterilization Advice Chart.

## Safety in the magnetic resonance environment

The symbols shown below are used to indicate safety of medical devices in the Magnetic Resonance environment.



**MR safe** - an item that poses no known hazards in all MR environments (1.5T, 3T, 6T and others).



**MR conditional** - an item that has been demonstrated to pose no known hazards in a specified MR environment with specified conditions of use (specified in the user manual, typically compatible for 1.5T and 3T MR environment).



**MR unsafe** - an item that is known to pose hazards in all MRI environments.

### Note:

- Not all products in this guide are available in all markets. Please contact your local Elekta representative for further information.
- Applicators as mentioned in this guide can be used with both Iridium-192 and Cobalt-60 afterloaders, except for the Valencia and Leipzig applicators.
- If no information is provided under 'part number', this item cannot be ordered separately.
- The latest version of the applicator guide is leading and can be downloaded from [www.elekta.com/brachytherapy/applicators](http://www.elekta.com/brachytherapy/applicators). Find your information under the relevant bodysite.
- References to literature are not included in this guide.



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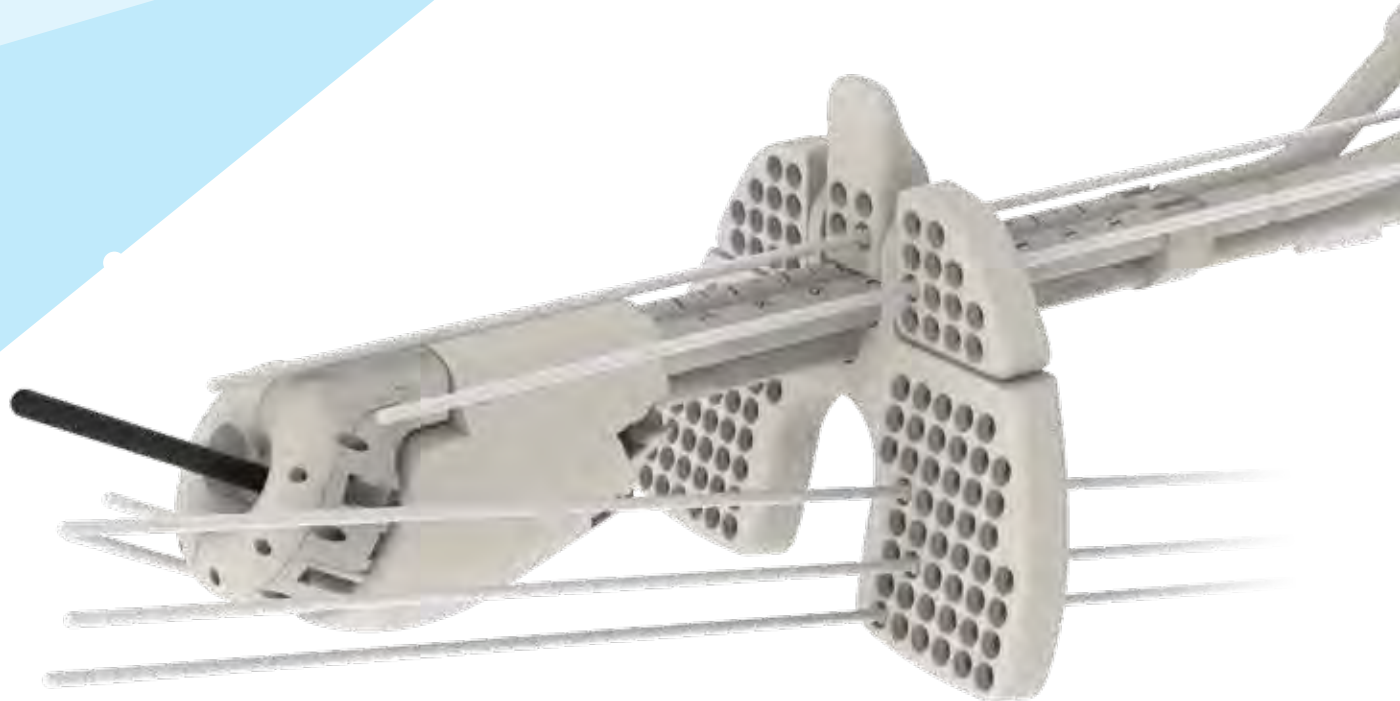
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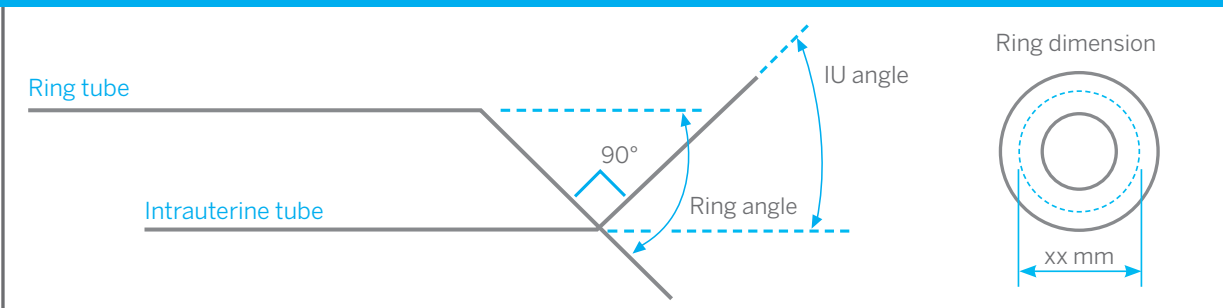
**VISIT [ELEKTA.COM/BRACHYTHERAPY](https://www.elekta.com/brachytherapy)**  
for the most up-to-date applicator overview

# Gynecology

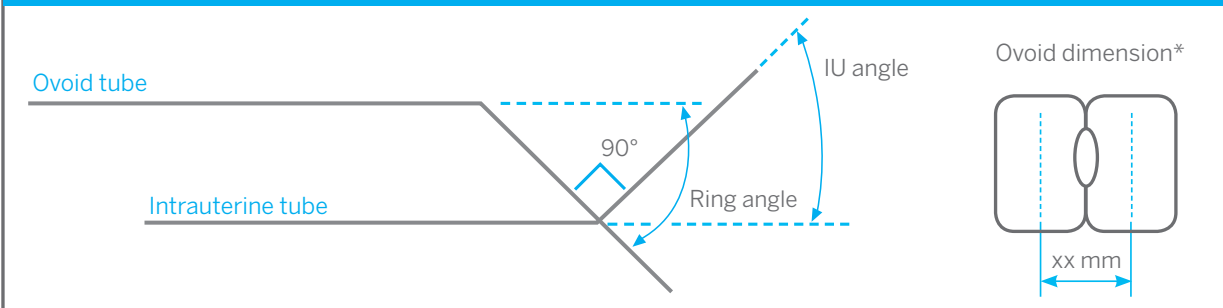


## Gynecology Applicator Dimensions

### RING APPLICATORS



### OVOID APPLICATORS



\* Not applicable for Cervix Rotterdam applicator.

\* The ovoid and ring sizes as provided in the descriptions in the guide, are the measurements of the inner diameter (source path). The outer diameters vary for both ring and ovoids. For the correct outer diameter size, refer to the appropriate applicator user manual.

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## PERINEUM

MUPIT applicator set	58
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The intrauterine tubes are available as sets in 4 mm and 6 mm.

### Intrauterine tube (4 mm)

Easier to insert and less uncomfortable for the patient, these tubes have a straight distal end and dilation is not necessary. For this set, the special rector retractors are also available.

### Intrauterine tube (6 mm)

Dilatation of the cervix is often needed and this tube has a curved distal.

### Note:

- The intrauterine tubes can be sterilized using steam sterilization and ethylene oxide
- User manual 777.00088





## Advanced Gynecological Applicator — Venezia™

### Reach cervix, parametrium and vagina – expanding clinical capabilities

Venezia allows you to reach beyond: access tumors in the parametrium and the vagina with ease. The Advanced Gynecological Applicator allows treatment of patients with IIIB cervical cancer, but also IB and IIA/B and stage IIIA tumors. One applicator can treat multiple tumor stages, so you can use the same applicator type for various patient groups. The two lunar-shaped ovoids form a ring when clicked together, allowing you to benefit from the advantages of a tandem and ovoid applicator in combination with the dose distribution of a ring - high dose to the target volume while sparing organs at risk.

### Reproducible dosimetric results

The numbered hole positions on the Venezia ovoids and template facilitate consistent needle placement for every fraction – every time. Additionally, the insertion tool helps to insert the needles at the exact prescribed depth.

Venezia is included in the Oncentra® Brachy Applicator Modeling module, making reconstruction easy and fast. Simply select Venezia, then import and modify to meet clinical needs. Manual reconstruction becomes obsolete, saving time and streamlining workflow.

### Simplify (interstitial) gynecological brachytherapy

Interstitial brachytherapy for advanced stage cervical cancer can be performed by free-hand needle placement. Although Venezia still allows free-hand needle placement, it is not necessary, because the parallel and oblique needle holes in the ovoids and perineal template guide the needles to the desired location. In addition, the needle insertion tool enables the physician to advance the ovoid needles to the prescribed depth. This guided needle placement ensures reproducible dosimetric results, making needle placement easier and more accurate.

Venezia is much easier to insert and assemble than conventional gynecological applicators. Simply insert the first half of the applicator and attach the second half by sliding and clicking the two parts together. The applicator contains no screws and requires no tools, making applicator assembly and insertion an easy, do-it-yourself task.

### Easily integrate into the workflow

Venezia is easy to insert and assemble and comes in various sizes to accommodate every patient's pelvic anatomy and as such increases the patient's comfort. And, depending on the patient's indication, the physician can select vaginal and/or perineal needle insertion. The multi-purpose applicator eliminates the need for a separate device for every indication.

Venezia suits all imaging modalities, including ultrasound, CT, x-ray and MRI. For virtually any imaging workflow, Venezia will always be clearly visible in the image dataset.

### Intended use:

- Cervix
- Endometrium

### Note:

User manual 777.00493



## Order information

### Advanced Gynecological Applicator — Venezia™

Part number	Description
126.001	Interstitial lunar ovoid tube 22 mm 60° right
126.002	Interstitial lunar ovoid tube 22 mm 60° left
126.003	Interstitial lunar ovoid tube 26 mm 60° right
126.004	Interstitial lunar ovoid tube 26 mm 60° left
126.005	Interstitial lunar ovoid tube 30 mm 60° right
126.006	Interstitial lunar ovoid tube 30 mm 60° left
126.007	Vaginal cap 22 mm right
126.008	Vaginal cap 22 mm left
126.009	Vaginal cap 26 mm right
126.010	Vaginal cap 26 mm left
126.011	Vaginal cap 30 mm right
126.012	Vaginal cap 30 mm left
126.013	Intrauterine tube 0 mm
126.014	Intrauterine tube 30 mm 30°
126.015	Intrauterine tube 40 mm 30°
126.016	Intrauterine tube 50 mm 30°
126.017	Intrauterine tube 60 mm 30°
126.018	Intrauterine tube 70 mm 30°
126.019	Intrauterine tube 30 mm 15°
126.020	Intrauterine tube 40 mm 15°
126.021	Intrauterine tube 50 mm 15°
126.022	Intrauterine tube 60 mm 15°
126.023	Intrauterine tube 70 mm 15°
126.024	Fixation element
126.025	Fixation clip
126.026	Perineal template dorsal 0°
126.027	Perineal template dorsal 12°
126.028	Perineal template ventral 0°
126.029	Bracelet for guiding tubes (5 x 1)
126.030	Number tag for guiding tubes (5 x 1)
126.031	Guiding tubes for interstitial lunar ovoid (5 x 1)
126.032	Guiding tubes for vaginal cap (5 x 1)
126.033	Perineal bar
101.012	Sterilizing caps CT/MR
110.268	ProGuide obturator bulk set, 6F x 294 mm (1 x 5)
189.714	Insertion tool
189.040	Cleaning brush ø 2.5 mm x 250 mm (set of 3)
189.043	Cleaning brush ø 6.5 mm x 100 mm (set of 3)
137.287	Lock inserts set for 6F plastic needles
137.290	Needle lock tool

The Advanced Gynecological Applicator, Venezia is not yet available for commercial distribution.

## Why the Advanced Gynecological Applicator - Venezia?

- Reach cervix, parametrium and vagina, expanding clinical capabilities
- Ensure reproducible dosimetric results
- Simplify (interstitial) gynecological brachytherapy
- Easily integrate into workflow

“With Venezia, I expect to treat advanced cervical cancer patients with more ease. Venezia will allow me to reach tumors extended to the parametrium because I can position needles at multiple angles, in the vagina and through the perineum.”

### Petch Alisanant, MD

Division of Radiation Oncology  
Chulalongkorn University  
Bangkok, Thailand

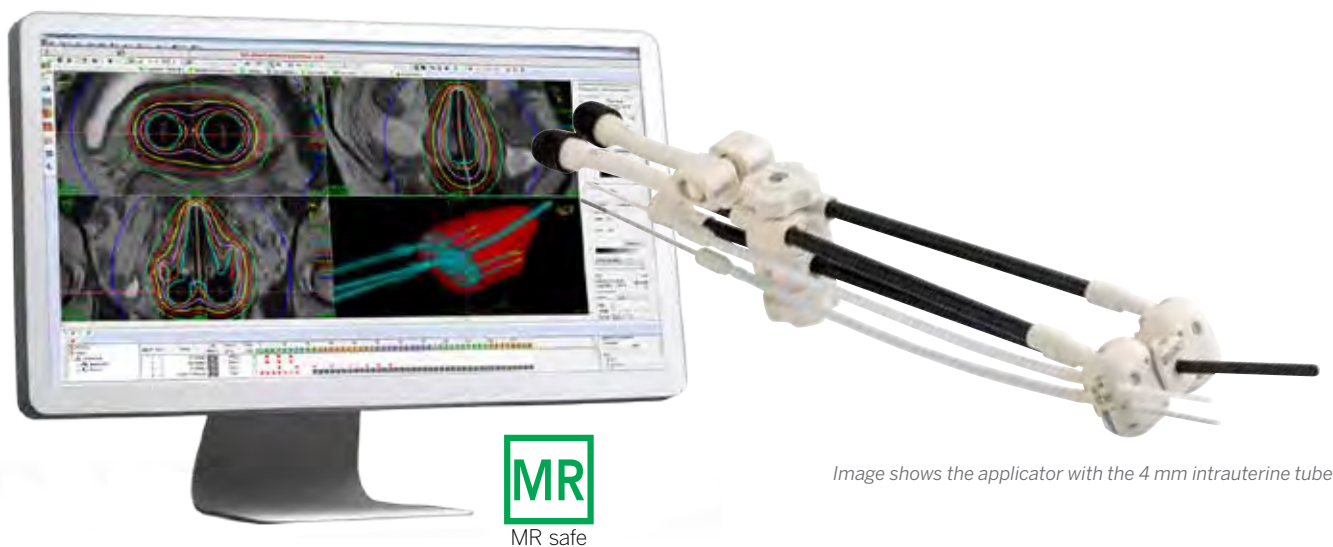


Image shows the applicator with the 4 mm intrauterine tube

## Utrecht Interstitial CT/MR Applicator Set

### A compelling workflow for image-guided adaptive brachytherapy (IGABT)

The Utrecht interstitial applicator is a state-of-the-art treatment solution for combined intracavitary and interstitial gynecological brachytherapy.

#### Targeted dose optimization

Besides the regular intracavitary treatment channels of the applicator, the ovoids act as a template for placing additional needles in the cervical area. The interstitial needles provide additional control of dose coverage to the tumor, while sparing the surrounding tissue. The insertion depth of the needles can be easily controlled using the insertion tool. The needles are individually locked in place for treatment.

#### Optimized for 3D imaging and planning

The applicator uses strong composite fiber tubing and plastics to eliminate distortion on CT and MR imaging. With the use of transversal slices, and the modules Applicator Modeling and Library Plans in Oncentra Brachy, the applicator is quickly reconstructed during treatment planning.

#### Intended for:

- Cervix
- Endometrium

#### Note:

- Can also be used as a standard intracavitary applicator
- Asymmetrical ovoid placement is possible
- Use of needles with rounded tip can reduce the risk of perforation of critical structures, and is required for use with interstitial cervix applicators
- The applicator can be sterilized using steam sterilization
- User manual 777.00077

#### Order information

[Utrecht interstitial CT/MR applicator set \(4 mm\)](#)  
part # 110.270A02

The same set as the below 6 mm set, but with 4 mm intrauterine tubes

[Utrecht interstitial CT/MR applicator set \(6 mm\)](#)  
part # 110.270A01

Part number	Description
189.735	Ovoid tube 1
189.740	Ovoid tube 2
189.739	Intrauterine tube 15°
189.745	Intrauterine tube 30°

110.240	Interstitial ovoid pair 15 mm, 15°
110.241	Interstitial ovoid pair 20 mm, 15°
110.242	Interstitial ovoid pair 25 mm, 15°
110.243	Interstitial ovoid pair 30 mm, 15°
189.714	Insertion tool
110.268	Obturator set (set of 5)
189.751	Rectal retractor 40 mm
189.742	Rectal retractor 30 mm
189.741	Fixation nut for rectal retractor
189.722	Fixation mechanism
189.750	Fixation clip
189.930	Spare fixation nuts set (5 pcs)
101.012	Sterilization caps (50 pcs)
110.267	Cervical stopper
110.283	Screwdriver for ovoids and stopper
008.033	Plastic screw M5 PPSU (10 x 008.033)
189.040	Cleaning brush set (2.5 mm)
189.043	Cleaning brush set (6.5 mm)

## Accessories

Part number	Description
110.230* ●	ProGuide round needle set, 6F x 294 mm
110.231 ●	ProGuide sharp needle set, 6F x 294 mm
110.232* ●	Guiding tube for ovoids
189.769	Intrauterine tube, d =6 mm, 45°
110.296/298/300	Intrauterine tube, d =4 mm, 15°/30°/45°
110.272	Interstitial ovoid set 25°
101.031	Fixation mechanism for ovoid tubes
189.566** ●	Smit Sleeves CT/MR
110.700	Pins for adjustable mechanism (5 pcs)
189.894	Spare part set plastic screw M5 PPSU (10 pcs)
189.724	Internal fixation mechanism
189.727	Clip bolt
189.731	Pin
110.315	Rectal retractor 30 mm with slot (for
110.335	Rectal retractor 40 mm with slot (for
110.395	Cervical stopper for 4 mm
110.396	Cervical stopper tool for 4 mm

\*Required for interstitial treatment

\*\*For more options, refer to "Accessories" section

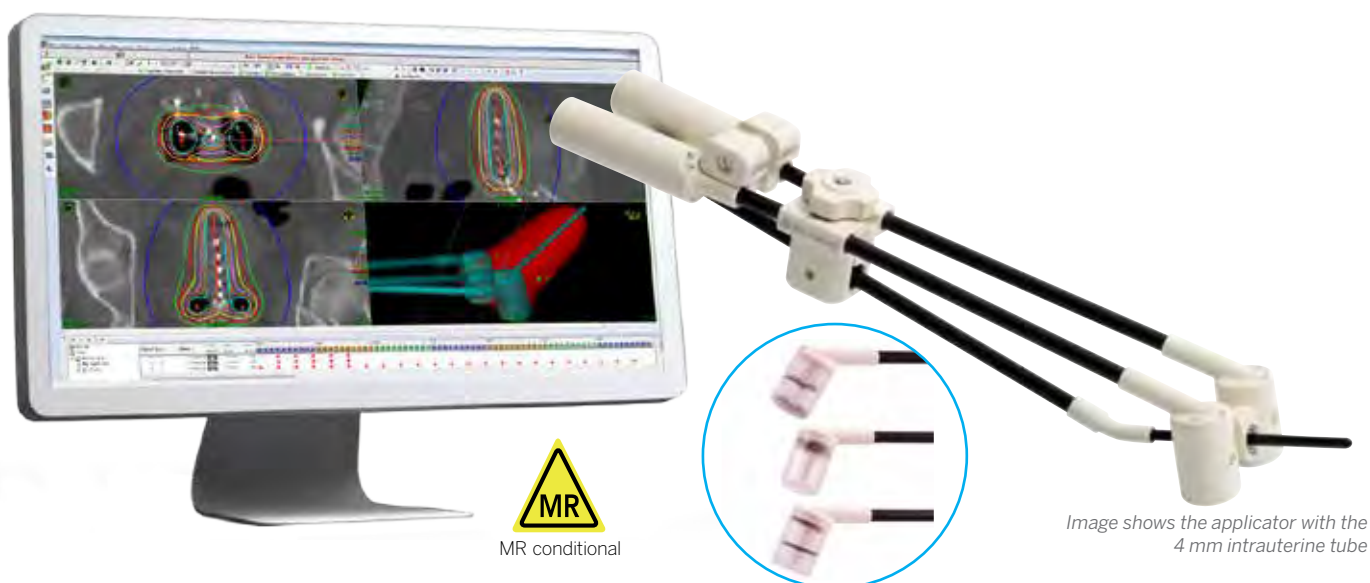
## Why the Utrecht interstitial CT/MR applicator?

- Targeted dose optimization
- Complex interstitial brachytherapy made easy
- Artefact-free 3D images

“Combined intracavitary/interstitial brachytherapy for cervical cancer not only provides the possibility to increase the target volume dose but also to reduce the dose to organs at risk.”

**Ina Jürgenliemk-Schulz**

University Medical Center, Utrecht,  
the Netherlands



## Fletcher CT/MR Shielded Applicator Set

### Combining the benefits of 3D imaging with ovoid shielding

During recent years 3D image-guided brachytherapy using CT and MR imaging has steadily replaced X-ray based dose planning. Visualization of the targeted area and untargeted anatomies enables conformation of the dose distribution to the target volume and the dose reduction to organs at risk. Sparing of the organs at risk was traditionally accomplished by the use of shielded ovoids. However, the metal components of such ovoids interfere with modern 3D imaging modalities and distort acquired images.

The Fletcher CT/MR shielded applicator is the first of its kind to overcome these issues. Moveable shielding incorporated in the ovoids allows you to lower the dose to organs at risk during gynecological brachytherapy treatments. High-quality CT and MR images for 3D dose planning can now be combined with protection of the organs at risk.

### Intended for:

- Cervix
- Endometrium

### Note:

- Includes unique moveable shielding mechanism
- MR conditional (up to 3 Tesla)
- This applicator can be sterilized using plasma sterilization (STERRAD®)
- User manual 777.00157
- The most accurate dose effect of the shields in your plans can be calculated with ACE (TG-186) in Oncentra Brachy, for both Iridium-192 and Cobalt-60 sources. Oncentra also provides a shield approximation that can be used for TG-43 calculations for Iridium-192.

### Order information

**Fletcher CT/MR shielded applicator set (4 mm)**  
Part # 110.980

Part number	Description
110.930	Shielded ovoid tube 1
110.940	Shielded ovoid tube 2
110.970	Intrauterine tube (4 mm), 15°
110.971	Intrauterine tube (4 mm), 30°
189.722	Adjustable fixation mechanism
110.957	Fixation clip

110.967	Cervical stopper (4 mm)
101.012	Sterilization caps (IU tube) (50 pcs)
110.960	Ovoid cap 25 mm (2 pcs)
110.961	Ovoid cap 30 mm (2 pcs)
110.963	Transfer tube cap (2 pcs)
110.283	Screwdriver titanium
189.930	Fixation nuts (spare; 5 pcs)
189.894	Plastic screw M5 PPSU (10 pcs)

### Fletcher CT/MR shielded applicator set (6 mm) Part # 110.950

Part number	Description
110.930	Shielded ovoid tube 1
110.940	Shielded ovoid tube 2
189.739	Intrauterine tube (6 mm), 15°
189.745	Intrauterine tube (6 mm), 30°
189.722	Adjustable fixation mechanism
110.957	Fixation clip
110.954	Cervical stopper (6 mm)
101.012	Sterilization caps (IU tube) (50 pcs)
110.960	Ovoid cap 25 mm (2 pcs)
110.961	Ovoid cap 30 mm (2 pcs)
110.963	Transfer tube cap (2 pcs)
110.283	Screwdriver titanium
189.930	Fixation nuts (spare 5 pcs)
189.894	Plastic screw M5 PPSU (10 pcs)

### Accessories

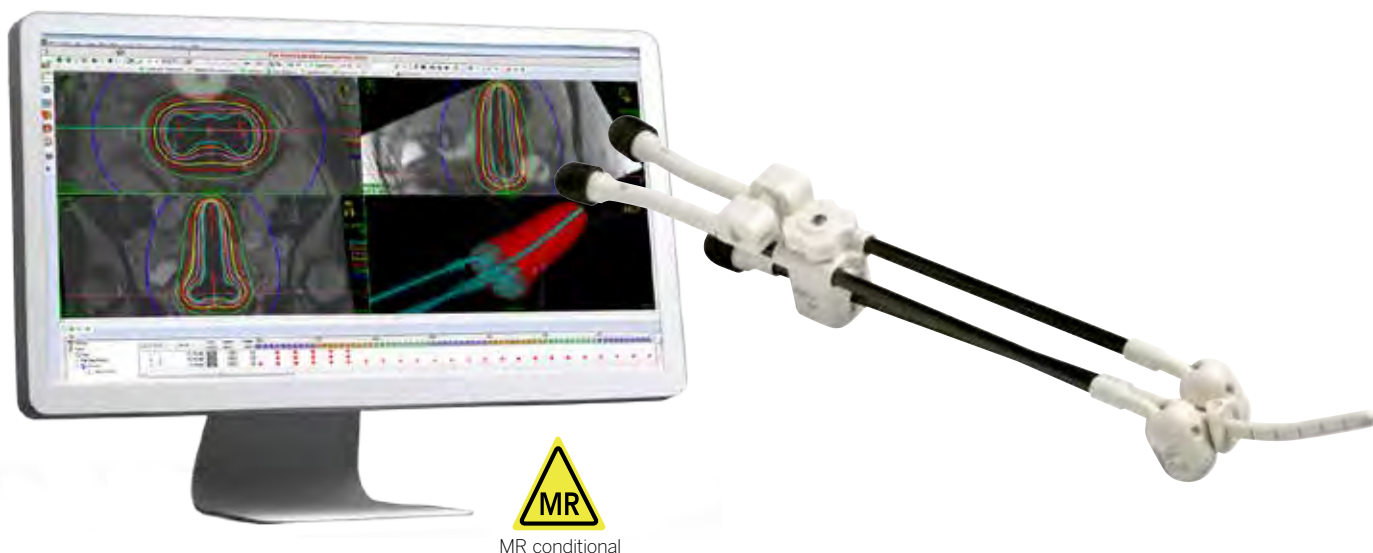
Part number	Description
110.972	Intrauterine tube (4 mm), 45°
189.769	Intrauterine tube (6 mm), 45°
189.566 ●	Smit Sleeve CT/MR 40 mm (10 pcs) *
189.676 ●	189.676 and following Smit Sleeves, l = 20 mm and longer, d = 6 mm (10 pcs)
101.031	Fixation mechanism for ovoid tubes
101.015	CT/MR sterilization box
189.931	CT/MR applicator clamp with axle
189.932	CT/MR applicator clamp with base plate
110.700	Pins for adjustable fixation mechanism (5 pcs)
189.724	Internal fixation mechanism
189.930	Fixations nuts (spare 5 pcs)
189.894	Plastic screws M5 PPSU (10 pcs)

\*For more options, see "Accessories" section

## Why the Fletcher CT/MR shielded applicator?

- High dose to target combined with significant protection of organs at risk
- Minimize image artifacts with moveable shields
- Maximum workflow efficiency with Oncentra Brachy planning tools





## Fletcher CT/MR Applicator Set

### The optimal solution for volume-based intracavitary cervical brachytherapy

The Fletcher CT/MR applicator uses two ovoids to shape a 'Fletcher-type' dose for intracavitary gynecological brachytherapy. This proven pear-shaped dose matches the anatomy of the cervix and surrounding areas.

The applicator uses strong composite fiber tubing and plastics to eliminate distortion on CT and MR imaging. With the use of the Applicator Modeling module in Oncentra Brachy, the applicator is reconstructed with just a few mouse clicks.

The flexible geometry of the applicator provides the options to optimize the position of the ovoids to the cervix, and to adjust the intrauterine tube to ensure an optimal fit with the patient's anatomy.

### Unique solution for narrow anatomy of vagina

An extra small version of this applicator is available, the Fletcher CT/MR applicator set XS. This version has small ovoids that optimally fit women with a narrow vagina, e.g. patients from the Asian region. The thin intrauterine tubes in this set facilitate easy insertion.

### Intended for:

- Cervix
- Endometrium

### Note:

- The separate Utrecht Interstitial applicator complementary set (110.271) contains all components to add interstitial functionality to a Fletcher CT/MR applicator and thereby upgrade it to the state-of-the-art Utrecht Interstitial CT/MR applicator
- Asymmetrical ovoid placement is possible
- The applicator can be sterilized using steam sterilization
- User manual 777.00287



4 mm IU tube with new stopper

## Order information

### Fletcher CT/MR applicator set, part # 189.730

Part number	Description
189.735	Ovoid tube 1
189.740	Ovoid tube 2
189.739	Intrauterine tube 15°
189.745	Intrauterine tube 30°
189.783	Ovoid pair 15 mm (half-ovoids)
189.754	Ovoid pair 20 mm
189.755	Ovoid pair 25 mm
189.756	Ovoid pair 30 mm
189.757	Ovoid pair 35 mm
189.758	Ovoid pair 40 mm
189.742	Rectal retractor 30 mm
189.751	Rectal retractor 40 mm
189.741	Fixation nut for rectal retractor
110.267	Cervical stopper
189.722	Adjustable fixing mechanism
189.750	Fixation clip
008.033	Plastic screw M5 PPSU (10 x 008.033)
110.283	Screwdriver for ovoids and stopper
101.012	Sterilization caps (pack of 50)

### Fletcher CT/MR applicator set XS, part # 110.216

Part number	Description
189.735	Ovoid tube 1
189.740	Ovoid tube 2
110.296	Intrauterine tube (4 mm), 15° *
110.298	Intrauterine tube (4 mm), 30° *
110.300	Intrauterine tube (4 mm), 45° *
110.540	Ovoid pair 15 mm, R7.5 (micro ovoids)
189.783	Ovoid pair 15 mm, R10 (half ovoids)
189.754	Ovoid pair 20 mm, R10
189.755	Ovoid pair 25 mm, R10
189.722	Adjustable fixation mechanism
189.750	Fixation clip
101.012	Sterilization caps (50 pcs.)
110.283	Screwdriver titanium for ovoids and stopper
008.033	Plastic screw M5 PPSU (10 x 008.033)

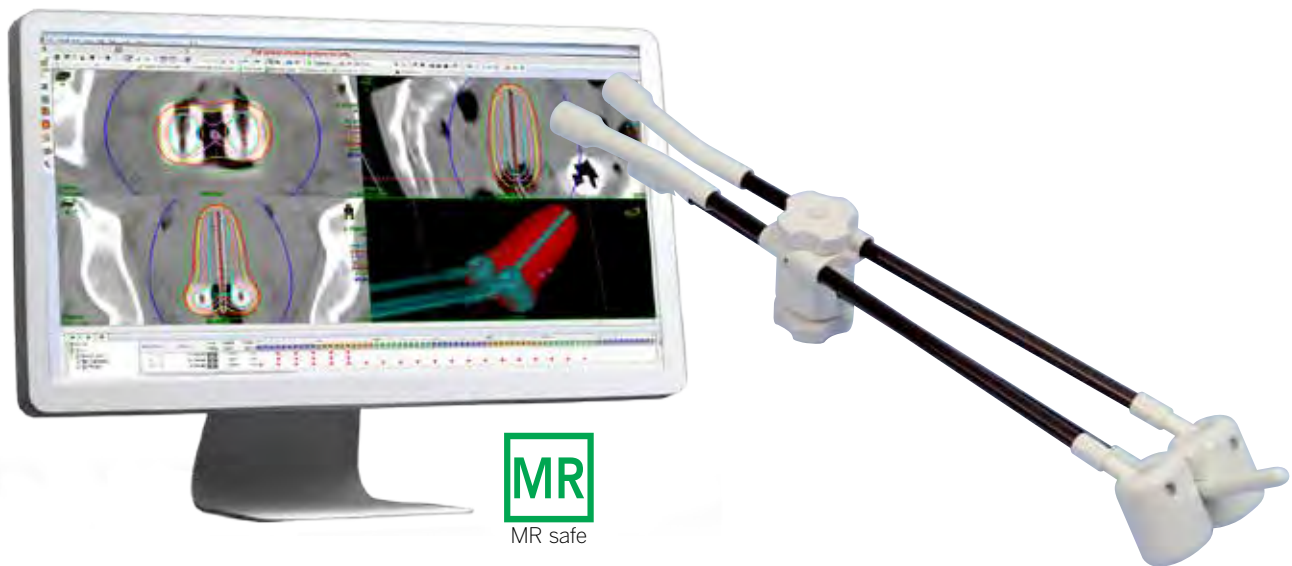
## Why the Fletcher CT/MR applicator set?

- Ideal for volume-based intracavitary cervical brachytherapy
- Adjustable to the patient's anatomy
- Compatible with CT
- MR safe

## Accessories

Part number	Description
110.296/.298/.300	Intrauterine tube (4 mm) 15°/30°/45°
189.566 ●	Smit Sleeves CT/MR ø 9 mm (box of 10)
189.676	189.676 and following Smit Sleeves, l = 20 mm and longer, d = 6 mm (10 pcs)
189.769	Intrauterine tube 45° (6 mm)
101.031	Ovoid tube fixing mechanism
101.015	Sterilization box
189.900	Ovoid set with radius 12.5 mm (25, 30, 35, 40 mm)
189.901	Ovoid set with radius 15 mm
110.700	Pins for adjustable mechanism (5 pcs)
189.930	Spare fixation nuts (5 pcs)
110.271	Utrecht interstitial applicator complimentary set. To expand the use of the Fletcher CT/MR
189.894	Spare part set plastic screw M5 PPSU (10 pcs)
110.315	Rectal retractor 30 mm with slot (for intrauterine tubes 4 mm)
110.335	Rectal retractor 40 mm with slot
189.741	Fixation nut for rectal retractor
110.395	Cervical stopper for 4 mm
110.396	Cervical stopper tool for 4 mm

\*The 4 mm IU tubes include a cervical stopper.



## Standard CT/MR Applicator Set

The Standard CT/MR applicator set is designed using a composite fiber tubing to eliminate distortion on CT or MR images. This enables conformal treatment planning with the use of transverse slices. To ensure applicator and treatment integrity, the standard CT/MR applicator has a fixed geometry.

**Intended for:**

- Cervix
- Endometrium

**Note:**

- The applicator can be sterilized using steam sterilization or ethylene oxide
- User manual 090.613

## Order information

### Standard CT/MR applicator set, part # 101.020

Part number	Description
101.021	Ovoid tube 1
101.022	Ovoid tube 2
101.023	Intrauterine tube 40 mm
101.024	Intrauterine tube 50 mm
101.025	Intrauterine tube 60 mm
101.026	Ovoid pair 20 mm
101.027	Ovoid pair 25 mm
101.028	Ovoid pair 30 mm
101.029	Rectal retractor 30 mm
101.030	Rectal retractor 40 mm
101.031	Ovoid tube fixing mechanism
008.034	Screwdriver for ovoid and stopper
101.012	Sterilizing caps, CT/MR
008.033	Plastic screw M5 PPSU (16 x 008.033)

## Accessories

Part number	Description
101.015	CT/MR sterilization box
110.302	Intrauterine tube (4 mm), l = 50 mm, 40°
189.566 ●	Smit Sleeves CT/MR, l = 40 mm, d = 9 mm (box of 10)
110.395	Cervical stopper for 4 mm
110.396	Cervical stopper tool for 4 mm

## Why the Standard CT/MR applicator?

- Compatible with CT and MR safe
- Applicator with fixed geometry that ensures reproducible geometry



## Fletcher Williamson Applicator Set

This applicator is based on the dosimetry of the conventional shielded fletcher style applicator.

A lightweight tungsten alloy shielding is incorporated in the ovoid tubes to reduce the dose to the bladder and rectum. Ovoids are positioned at a 60° angle to the vaginal axis. The set includes mini ovoids for narrow vaginas and thin 3.2 mm intrauterine tubes.

A specific Fletcher Williamson 'Asia Pacific' applicator set is available which is unshielded and has small geometry ovoids.

### Intended for:

- Cervix
- Endometrium

### Note:

- The applicator can be sterilized using steam sterilization
- User manual 090.604

### Order information

Fletcher Williamson applicator set, part # 085.230

Part number	Description
085.233	Ovoid tube 1
085.234	Ovoid tube 2
085.231	Shielded ovoid tube 1
085.232	Shielded ovoid tube 2
084.203	Ovoid pair, mini, 16 mm unshielded
085.235	Ovoid cap pair, 20 mm, small
085.236	Ovoid cap pair, 25 mm, medium
085.237	Ovoid cap pair, 30 mm, large
084.028	Fixing mechanism, ovoid tube
084.024	Intrauterine tube 15°
084.025	Intrauterine tube 30°
084.026	Intrauterine tube 45°
084.030	Cervical stopper, small
084.027	Adjustable fixing mechanism
084.158	Sterilizing caps, 3.2 mm (50 pcs)
006.182	Screwdriver
101.015	CT/MR sterilization box



## Fletcher Williamson Asia Pacific set, part # 085.260

Part number	Description
085.233	Ovoid tube 1
085.234	Ovoid tube 2
084.203	Ovoid pair, mini, 16 mm unshielded
084.041	Ovoid pair, half, unshielded
084.042	Ovoid pair, 20 mm, small, unshielded
084.028	Fixing mechanism, ovoid tube
084.024	Intrauterine tube 15°
084.025	Intrauterine tube 30°
084.026	Intrauterine tube 45°
084.030	Cervical stopper, small
084.027	Adjustable fixing mechanism
084.158	Sterilizing caps, 3.2 mm
006.182	Screwdriver
101.015	CT/MR sterilization box

## Accessories

Part number	Description
084.043	Ovoid pair, 25 mm, medium, unshielded
084.044	Ovoid pair, 30 mm, large, unshielded
084.421	Rectal retractor, 4 x 30 mm (thickness x width)
084.422	Rectal retractor, 4 x 40 mm (thickness x width)
086.010	Rectal retractor, 10 x 40 mm (thickness x width)
086.009	Rectal retractor, 10 x 30 mm (thickness x width)
086.011	Fixing mechanism, retractor
006.025	Spare fixing screw
006.030	Torque screwdriver, 2.5 mm
189.676 ● and following *	Smit Sleeves CT/MR for Ti intrauterine tube, l =20 mm and longer, d =6 mm (box of 10 pcs)

## Why the Fletcher Williamson applicator?

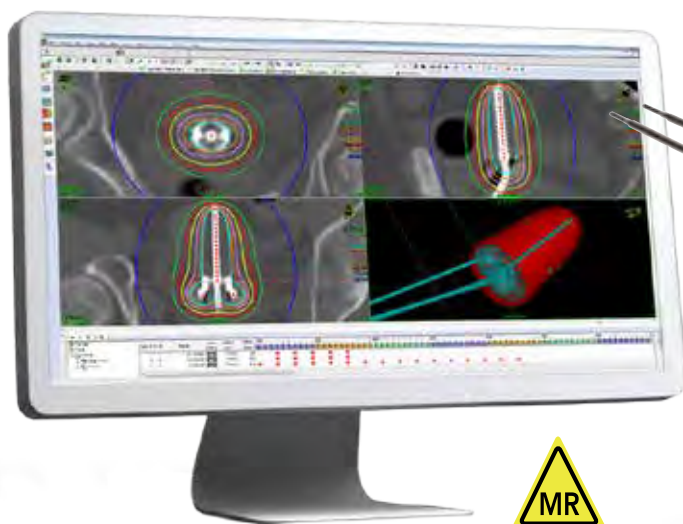
- Embedded shielding reduces dose to critical organs

“The Fletcher Williamson applicator is a well crafted, precision instrument with bladder and rectal shielding. This instrument allows us to continue a quality technical approach to gynecological brachytherapy with high dose rate brachytherapy.”

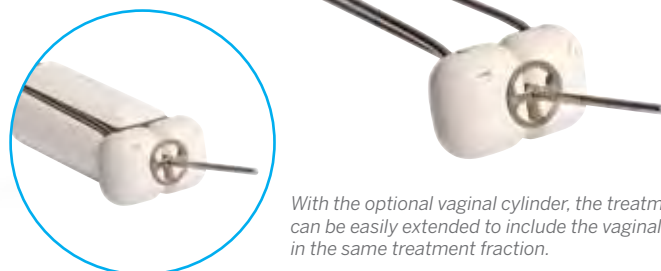
**J. Stitt, MD**

University of Wisconsin, Madison  
United States

\*For more options, refer to "Accessories" section



MR conditional



With the optional vaginal cylinder, the treatment can be easily extended to include the vaginal wall in the same treatment fraction.

## Cervix Rotterdam Applicator Set

### The lightweight applicator for cervical brachytherapy

The Cervix Rotterdam applicator supports fast and reproducible cervical brachytherapy. The use of titanium makes the applicator thin and lightweight, with a design that aids correct implantation. The applicator is compatible with CT and MR images.

### Fixed geometry

The lightweight applicator can easily be assembled during insertion. The applicator's geometry is fixed once inserted, which provides reproducible delivery set-up during all treatment fractions.

### Easy treatment extension

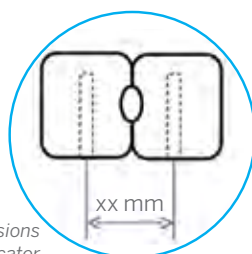
With the optional vaginal cylinder, the treatment can be easily extended to include the vaginal wall in the same treatment fraction.

### Enhancing your workflow

With the use of the Applicator Modeling module of Oncentra Brachy, the Cervix Rotterdam applicator is quickly reconstructed during treatment planning.

### Intended for:

- Cervix
- Endometrium
- Vagina



Indication of ovoid dimensions of Cervix Rotterdam applicator

### Note:

- The applicator can be sterilized using steam sterilization
- User manual 777.00281

### Order information

#### Cervix Rotterdam applicator set IU-15°, part # 137.218

Part number	Description
137.235	Right ovoid tube I, IU-15° (ti)
137.236	Left ovoid tube III, IU-15° (ti)
137.191	Ovoid pair, 20 mm, small
137.192	Ovoid pair, 25 mm, medium
137.193	Ovoid pair, 30 mm, large
137.230	Intrauterine tube IIIII, IU-15°, l = 30 mm, (ti)
137.232	Intrauterine tube IIIII, IU-15°, l = 50 mm, (ti)
137.234	Intrauterine tube IIIII, IU-15°, l = 70 mm, (ti)
137.246	Ovoid tube coupling for 15°, for ovoids only (ti)
137.570	Closing caps (25/pack)
137.574	Screwdriver for ovoid screws

### Accessories for 15° set

Part number	Description
137.245	Vaginal cylinder locking pin (ti)
137.237	Vaginal cylinder & cap 15°, Ø 30 mm, l = 60 mm
137.207	Vaginal cylinder & cap 15°, Ø 37 mm, l = 60 mm
137.238	Vaginal cylinder & cap 15°, Ø 40 mm, l = 60 mm
137.229	Intrauterine tube IIIII, IU-15°, l = 20 mm, (Ti)
137.231	Intrauterine tube IIIII, IU-15°, l = 40 mm, (Ti)
137.233	Intrauterine tube IIIII, IU-15°, l = 60 mm, (Ti)

## Cervix Rotterdam applicator set IU-30°, part # 137.206

Part number	Description
137.248	Right ovoid tube I, IU-30° (ti)
137.249	Left ovoid tube III, IU-30° (ti)
137.191	Ovoid pair, Ø 20 mm, small
137.192	Ovoid pair, 25 mm, medium
137.193	Ovoid pair, 30 mm, large
137.251	Intrauterine tube IIIII, IU-30°, l = 30 mm, (ti)
137.253	Intrauterine tube IIIII, IU-30°, l = 50 mm, (ti)
137.255	Intrauterine tube IIIII, IU-30°, l = 70 mm, (ti)
137.256	Ovoid tube coupling for 30°, for ovoids only (ti)
137.570	Closing caps (25/pack)
137.574	Screwdriver for ovoid screws

### Accessories for 30° set

Part number	Description
137.245	Vaginal cylinder locking pin (ti)
137.299	Vaginal cylinder & cap 30°, Ø 30 mm, l = 60 mm
137.257	Vaginal cylinder & cap 30°, Ø 37 mm, l = 60 mm
137.239	Vaginal cylinder & cap 30°, Ø 40 mm, l = 60 mm
137.250	Intrauterine tube IIIII, IU-30°, l = 20 mm, (Ti)
137.252	Intrauterine tube IIIII, IU-30°, l = 40 mm, (Ti)
137.254	Intrauterine tube IIIII, IU-30°, l = 60 mm, (Ti)

## Cervix Rotterdam applicator set IU-45°, part # 137.217

Part number	Description
137.219	Right ovoid tube I, IU-45° (ti)
137.220	Left ovoid tube III, IU-45° (ti)
137.191	Ovoid pair, Ø 20 mm, small
137.192	Ovoid pair, 25 mm, medium
137.193	Ovoid pair, 30 mm, large
137.222	Intrauterine tube IIIII, IU-45°, l = 30 mm, (ti)
137.224	Intrauterine tube IIIII, IU-45°, l = 50 mm, (ti)
137.226	Intrauterine tube IIIII, IU-45°, l = 70 mm, (ti)
137.247	Ovoid tube coupling for 45°, for ovoids only (ti)
137.570	Closing caps (25/pack)
137.574	Screwdriver for ovoid screws

### Accessories for 45° set

Part number	Description
137.245	Vaginal cylinder locking pin (ti)
137.240	Vaginal cylinder & cap 45°, Ø 30 mm, l = 60 mm
137.228	Vaginal cylinder & cap 45°, Ø 37 mm, l = 60 mm
137.241	Vaginal cylinder & cap 45°, Ø 40 mm, l = 60 mm
137.221	Intrauterine tube IIIII, IU-45°, l = 20 mm, (Ti)
137.223	Intrauterine tube IIIII, IU-45°, l = 40 mm, (Ti)
137.225	Intrauterine tube IIIII, IU-45°, l = 60 mm, (Ti)

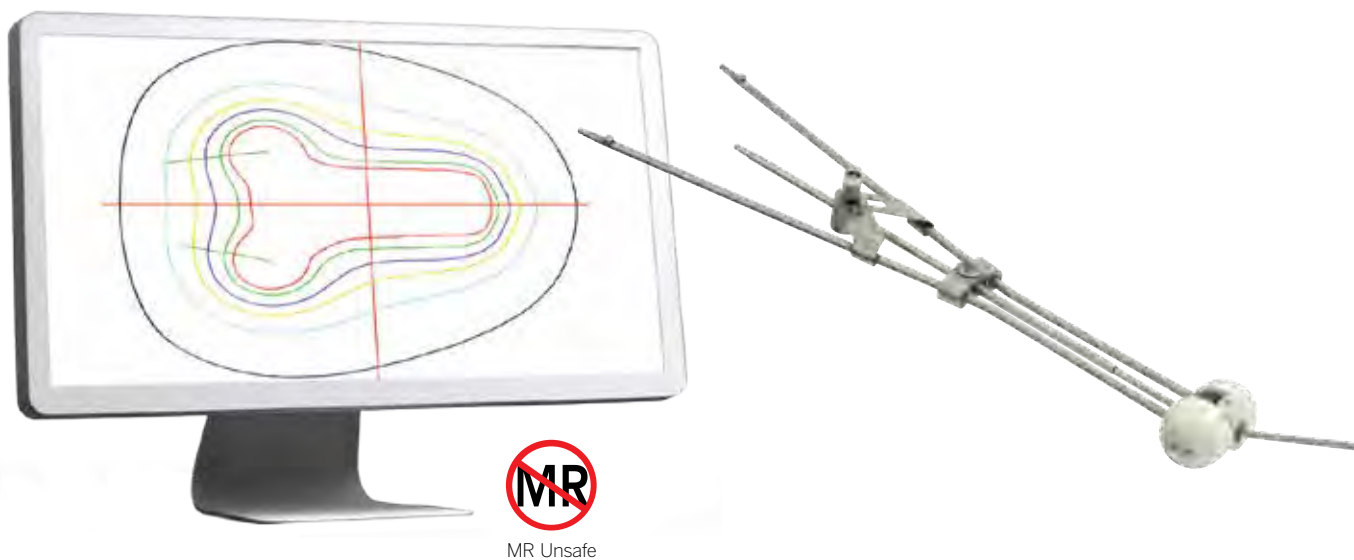
## Why the Cervix Rotterdam applicator?

- Dependable insertion through fixed geometry
- Strong and lightweight applicator
- Compatible with CT and MR (1.5T and 3T)
- Easy extension for radiation of vaginal wall with the optional vaginal cylinder

### Accessories for all Cervix Rotterdam applicators

Part number	Description
137.244	Rectal spacer locking pin (ti)
137.243	Rectal spacer, 30 mm wide, 5 mm spacing under ovoid
137.242	Rectal spacer, 30 mm wide, behind ovoid
137.190	Mini ovoid pair, 15 mm
137.577	Spare ovoid screws (set of 5 pcs)
189.676 ● and following *	Smit Sleeves CT/MR for Ti intrauterine tube, l = 20 mm and longer, d = 6 mm (box of 10 pcs)

\*For more options, refer to the "Accessories" section



## Henschke Titanium Applicator Set

The Henschke titanium applicator set is based on the original low dose design by Dr. Henschke, with additional input from Memorial Sloan Kettering Hospital, New York. The Henschke titanium applicator set reproduces standard pear-shape gynecological isodose distributions.

**Intended for:**

- Cervix
- Endometrium

**Note:**

- Compatible with CT and MR (1.5T and 3T)
- The applicator can be sterilized using steam sterilization
- Plastic caps to increase the diameter of the ovoids
- The ovoid assembly is adjustable and assists in easy insertion.
- User manual 777.00144

## Order information

### Henschke titanium applicator set, part # 110.018

Part number	Description
110.019	Dual colpostat tube
110.435	Intrauterine tube straight
110.436	Intrauterine tube, 15°
110.437	Intrauterine tube, 30°
110.438	Intrauterine tube, 45°
065.085	Colpostat cap Ø 25 (pair)
065.086	Colpostat cap Ø 30 (pair)
110.283	Screwdriver for ovoids and stopper (2 pcs)
110.430	Cervical stopper (2 pcs)
008.033	Plastic screw M5 PPSU (5 x 008.033)

## Accessories

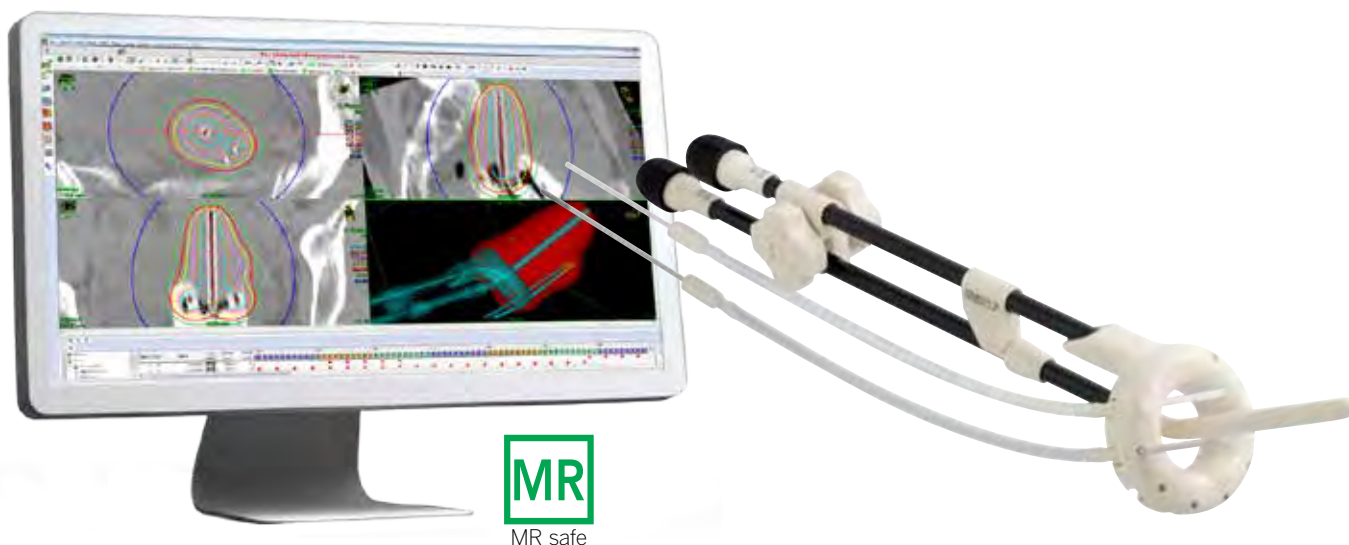
Part number	Description
189.676 ● and following *	Smit Sleeves CT/MR for Ti intrauterine tube, l =20 mm and longer, d =6 mm (box of 10 pcs)
101.015	Sterilization box

## Why the Henschke titanium applicator?

- Adjustable ovoid separation and shielding
- Compatible with CT

\*For more options, refer to "Accessories" section





## Interstitial Ring CT/MR Applicator Set

### A compelling workflow for image-guided adaptive brachytherapy (IGABT)

The Interstitial Ring applicator is a state-of-the-art treatment solution for combined intracavitary and interstitial gynecological brachytherapy.

### Targeted dose optimization

Besides the regular intracavitary treatment channels of the applicator, the ring acts as a template for placing additional needles in the cervical area. The interstitial needles provide additional control of dose coverage to the tumor, while sparing the surrounding tissue. The insertion depth of the needles can be easily controlled using the insertion tool. The needles are individually locked in place for treatment.

### Optimized for 3D imaging and planning

The applicator uses strong composite fiber tubing and plastics to eliminate distortion on CT and MR imaging. With the use of transversal slices, and the modules Applicator Modeling and Library Plans in Oncentra Brachy, the applicator is quickly reconstructed during treatment planning.

### Intended for:

- Cervix
- Endometrium

### Note:

- Can also be used as regular intracavitary ring applicator
- Use of needles with rounded tip can reduce the risk of perforation of critical structures, and is required for use with interstitial cervix applicators
- The applicator can be sterilized using steam sterilization
- User manual 777.00083

### Order information

#### Interstitial Ring CT/MR applicator sets (4 mm)

Part number	Description
110.674	Interstitial Ring applicator set, complete (4 mm)
110.330A02	Interstitial Ring applicator set d = 26 mm, 60° (4 mm)
110.331A02	Interstitial Ring applicator set d = 30 mm, 60° (4 mm)
110.332A02	Interstitial Ring applicator set d = 34 mm, 60° (4 mm)

### Interstitial Ring CT/MR applicator set, complete (6 mm), part # 110.673

Part number	Description
110.350	Interstitial ring tube, d = 26 mm, 60° (6 mm)
110.351	Interstitial ring tube, d = 30 mm, 60° (6 mm)
110.352	Interstitial ring tube, d = 34 mm, 60° (6 mm)
101.051	Intrauterine tube, l = 20 mm, 60° (6 mm)
101.052	Intrauterine tube, l = 20 mm, 60° (6 mm)
101.053	Intrauterine tube, l = 60 mm, 60° (6 mm)
101.057	Rectal retractor, 60°
189.930	Fixation nuts set (spare, 5 pcs)
101.012	Sterilization caps CT/MR (50 pcs)
110.268	Obturator (5 pcs)
189.714	Insertion tool
189.040	Cleaning brush set
189.043	Cleaning brush set

### Interstitial Ring CT/MR applicator sets

#### Set, d = 26 mm, 6 mm, 60° (max. 7 needles), part # 110.330 A01

Part number	Description
110.350	Interstitial ring tube, d = 26 mm, 60°
101.051	Intrauterine tube, l = 20 mm, 60° (6 mm)
101.052	Intrauterine tube, l = 40 mm, 60° (6 mm)
101.053	Intrauterine tube, l = 60 mm, 60° (6 mm)
101.057	Rectal retractor, 60°
189.930	Fixation nuts set (spare, 5 pcs)
101.012	Sterilization caps CT/MR, (50 pcs)
110.268	Obturator, (5 pcs)
189.714	Insertion tool
189.040	Cleaning brush set
189.043	Cleaning brush set

#### Set, d = 30 mm, 6 mm, 60° (max. 9 needles), part # 110.331 A01

Part number	Description
110.351	Interstitial ring tube, d = 30 mm, 60°
101.051	Intrauterine tube, l = 20 mm, 60° (6 mm)
101.052	Intrauterine tube, l = 40 mm, 60° (6 mm)
101.053	Intrauterine tube, l = 60 mm, 60° (6 mm)
101.057	Rectal retractor, 60°
189.930	Fixation nuts set (spare), set of 5
101.012	Sterilization caps CT/MR, pack of 50
110.268	Obturator, set of 5
189.714	Insertion tool
189.040	Cleaning brush set
189.043	Cleaning brush set

\*Required for interstitial treatment

\*\*For more options, refer to the "Accessories" section

## Why the Interstitial ring CT/MR applicator?

- Targeted dose optimization
- Complex interstitial brachytherapy made easy
- MR-safe applicator; no image distortions

#### Set, d = 34 mm, 6 mm, 60° (max. 9 needles), part # 110.332 A01

Part number	Description
110.352	Interstitial ring tube, d = 34 mm, 60°
101.051	Intrauterine tube, l = 20 mm, 60° (6 mm)
101.052	Intrauterine tube, l = 40 mm, 60° (6 mm)
101.053	Intrauterine tube, l = 60 mm, 60° (6 mm)
101.057	Rectal retractor, 60°
189.930	Fixation nuts set (spare), set of 5
101.012	Sterilization caps CT/MR, pack of 50
110.268	Obturator, set of 5
189.714	Insertion tool
189.040	Cleaning brush set (2.5 mm)
189.043	Cleaning brush set (6.5 mm)

### Accessories for all sets

Part number	Description
110.230* ●	ProGuide round needle set, 6F x 294 mm (set of 5, single packed, delivered sterile)
110.231 ●	ProGuide sharp needle set, 6F x 294 mm (set of 5, single packed, delivered sterile)
110.273* ●	Guiding tube for ring set for interstitial ring (set of 5, single packed, delivered sterile)
110.350	Interstitial ring tube, d = 26 mm, 60°
110.351	Interstitial ring tube, d = 30 mm, 60°
110.352	Interstitial ring tube, d = 34 mm, 60°
189.566 ●	Smit Sleeves CT/MR for 6 mm intrauterine tube, l = 40 mm, d = 9 mm, open ended (box of 10)
189.676 ●	Smit Sleeves CT/MR for 4 mm intrauterine tube, l = 20 mm and longer, d = 6 mm (box of 10)
101.054	Perineal bar
110.305/306/307	Intrauterine tube, d = 4 mm, 60°, l = 20/40/60 mm
110.290	MR line marker set
101.015	CT/MR sterilization box



## Vienna Ring CT/MR Applicator Set

The Vienna Ring CT/MR applicator is based on the CT/MR Ring applicator, enhanced with the addition of nine guide holes in the ring tube. These guide holes allow placement of interstitial titanium needles using the ring tube as a needle template, while maintaining the treatment channel of the ring tube. The addition of interstitial needles makes it possible to achieve asymmetric alteration of the dose distribution. The needles are inserted perpendicular to the ring and in parallel to the tandem. The applicator's plastic and composite fiber materials minimize distortion on CT or MR imaging. The Round Point needle is designed to minimize tissue damage and for ease in implantation. This applicator, developed by renowned clinical experts, offers the solution for treatment of advanced tumor stages with an optimised dose, minimizing dose to organs at risk.

### Intended for:

- Cervix
- Endometrium

### Note:

- Can also be used as a standard intracavitary ring applicator
- Use of needles with rounded tip can reduce the risk of perforation of critical structures, and is recommended for use with interstitial cervix applicators
- Non-clinical testing has demonstrated that the titanium needles and the needle fixation tool are MR Conditional. These products can be scanned safely under the following conditions: static magnetic field up to 0.23 Tesla
- The applicator can be sterilized using steam sterilization
- User manual 090.720

## Order information

Vienna Ring CT/MR applicator set 26 mm, 60°,  
part # 189.699

Part number	Description
189.713	Vienna Ring CT/MR tube, 60° (for 7 needles)
101.051	Intrauterine tube, l = 20 mm, 60°
101.052	Intrauterine tube, l = 40 mm, 60°
101.053	Intrauterine tube, l = 60 mm, 60°
101.057	Rectal retractor, 60°
189.930	Set of 5 fixing nuts (spare)
101.012	Sterilization caps, CT/MR, 50 pcs
110.720	Needle fixation tool, d = 26 mm
189.040	Cleaning brush set (2.5 mm)
189.043	Cleaning brush set (6.5 mm)

Vienna Ring CT/MR applicator set 30 mm, 60°,  
part # 189.792

Part number	Description
189.799	Vienna Ring CT/MR tube, 60° (for 9 needles)
101.051	Intrauterine tube, l = 20 mm, 60°
101.052	Intrauterine tube, l = 40 mm, 60°
101.053	Intrauterine tube, l = 60 mm, 60°
101.057	Rectal retractor, 60°
189.930	Set of 5 fixing nuts (spare)
101.012	Sterilization caps, CT/MR
110.721	Needle fixation tool, d = 30 mm
189.040	Cleaning brush set (2.5 mm)
189.043	Cleaning brush set (6.5 mm)

Vienna Ring CT/MR applicator set 34 mm, 60°,  
part # 189.569

Part number	Description
189.567	Vienna Ring CT/MR tube, 60° (for 9 needles)
101.051	Intrauterine tube, l = 20 mm, 60°
101.052	Intrauterine tube, l = 40 mm, 60°
101.053	Intrauterine tube, l = 60 mm, 60°
101.057	Rectal retractor, 60°
189.930	Set of 5 fixing nuts (spare)
101.012	Sterilization caps, CT/MR
189.995	Needle fixation tool, d = 34 mm
189.040	Cleaning brush set (2.5 mm)
189.043	Cleaning brush set (6.5 mm)

## Why the Vienna ring CT/MR applicator?

- Interstitial needle to achieve assymetric alternation of dose distribution
- Compatible with CT and MR

## Accessories

Part number	Description
110.720	Needle fixation tool, d = 26 mm
110.721	Needle fixation tool, d = 30 mm
189.995	Needle fixation tool, d = 34 mm
110.025	Round point titanium needle set, 1.9 mm x 240 mm, 60°, 30 mm (set of 5 needles)
110.027	Round point titanium needle set, 1.9 mm x 240 mm, 60°, 40 mm (set of 5 needles)
110.029	Round point titanium needle set, 1.9 mm x 240 mm, 60°, 50 mm (set of 5 needles)
083.252	Obiturator for needle, l = 100 mm
089.636	Handle for obturator
189.566* ●	Smit Sleeves CT/MR, l = 40 mm, d = 9 mm (box of 10)
101.054	Perineal bar
110.305/.306/.307	Intrauterine tube, d = 4 mm, 60°, l = 20/40/60 mm



## Ring CT/MR Applicator Set

### The optimal solution for volume-based intracavitary cervical brachytherapy

The Ring CT/MR applicator uses the ring to create a pear-shaped dose to match the anatomy of the cervix and endometrium.

The applicator uses strong fiber composite tubing and can be used in combination with CT and MR imaging for volume-based treatment planning. The fixed geometry of the ring and the intrauterine tube provide a reproducible applicator geometry. With the use of the Applicator Modeling module in Oncentra Brachy, reconstruction of the applicator takes only a few mouse clicks.

#### Intended for:

- Cervix
- Endometrium

#### Note:

- This applicator can be sterilized using steam sterilization and ethylene oxide
- User manual 090.617

### Order information

#### Ring CT/MR applicator set (4 mm)

Part number	Description
110.669	Ring CT/MR applicator set complete, 4 mm
110.670	Ring CT/MR applicator set, 30°, 4 mm
110.671	Ring CT/MR applicator set, 45°, 4 mm
110.672	Ring CT/MR applicator set, 60°, 4 mm

#### Ring CT/MR applicator set, 6 mm, part # 101.035

Part number	Description
101.060	Ring applicator set, 30°, CT/MR
101.061	Ring applicator set, 45°, CT/MR
101.062	Ring applicator set, 60°, CT/MR
101.038	Ring tube, d = 34 mm, 30°
101.044	Ring tube, d = 34 mm, 45°
101.050	Ring tube, d = 34 mm, 60°
101.054	Perineal bar

#### Ring CT/MR applicator set, 6 mm, 30°, part # 101.060

Part number	Description
101.036	Ring tube, d = 26 mm, 30°
101.037	Ring tube, d = 30 mm, 30°
101.039	Intrauterine tube, l = 20 mm, 30°
101.040	Intrauterine tube, l = 40 mm, 30°
101.041	Intrauterine tube, l = 60 mm, 30°
101.056	Rectal retractor, 30°
101.012	Sterilizing caps CT/MR (pack of 50)



#### Ring CT/MR applicator set, 6 mm, 45°, part # 101.061

Part number	Description
101.042	Ring tube, d = 26 mm, 45°
101.043	Ring tube, d = 30 mm, 45°
101.045	Intrauterine tube, l = 20 mm, 45°
101.046	Intrauterine tube, l = 40 mm, 45°
101.047	Intrauterine tube, l = 60 mm, 45°
101.055	Rectal retractor, 45°
101.012	Sterilizing caps CT/MR (pack of 50)

#### Ring CT/MR applicator set, 6 mm, 60°, part # 101.062

Part number	Description
101.048	Ring tube, d = 26 mm, 60°
101.049	Ring tube, d = 30 mm, 60°
101.051	Intrauterine tube, l = 20 mm, 60°
101.052	Intrauterine tube, l = 40 mm, 60°
101.053	Intrauterine tube, l = 60 mm, 60°
101.057	Rectal retractor, 60°
101.012	Sterilizing caps CT/MR (pack of 50)

#### Accessories

Part number	Description
189.566 ●	Smit Sleeve CT/MR (l = 40 mm, d = 9 mm)
101.054	Perineal bar (for part # 101.060/.061/.062)
101.038	Ring tube, d = 34 mm, 30° (for part # 101.060)
101.044	Ring tube, d = 34 mm, 45° (for part # 101.061)
101.050	Ring tube, d = 34 mm, 60° (for part # 101.062)
110.303/.304 / .305 /.306 /.307	Intrauterine tube, d = 4 mm, l = 40 30°/45°/60°
101.015	Sterilization box
110.290	MR line marker set

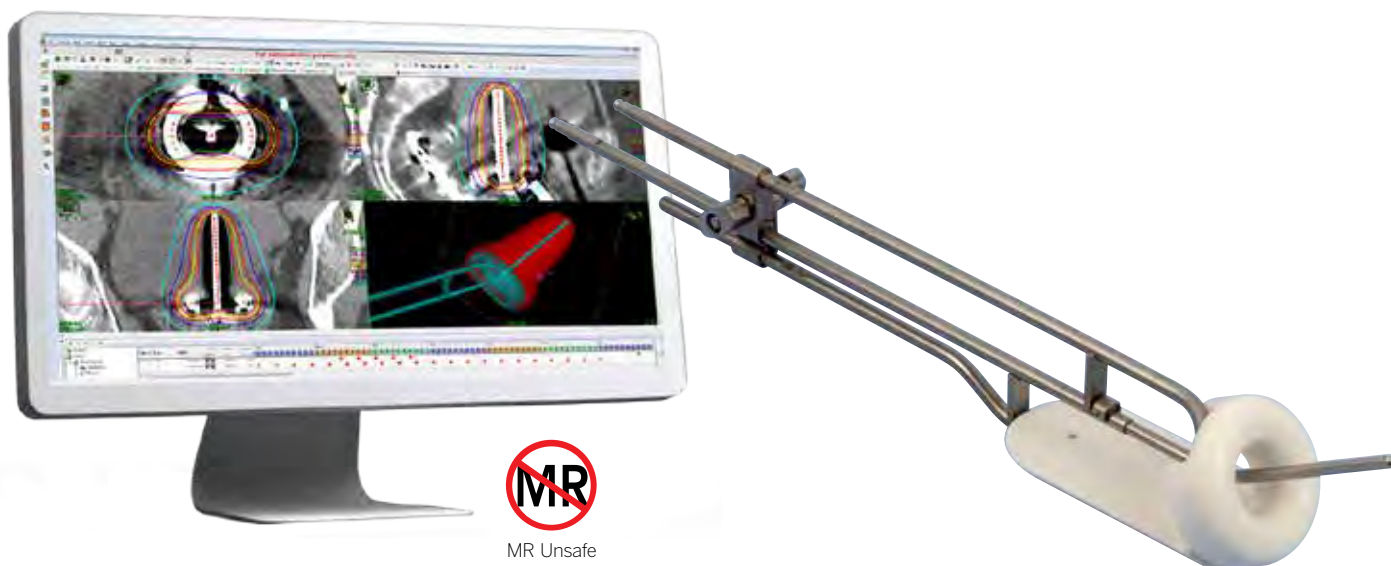
## Why the Ring CT/MR applicator?

- Ideal for volume-based intracavitary cervical brachytherapy
- Reproducible geometry
- Compatible with CT and MR safe

“We use the ring applicator to match the dosimetry of the Stockholm box.”

**T.H. Knocke, MD**

Universitätsklinik für Strahlentherapie,  
Wien Austria



## Ring Applicator Set

The Ring applicator uses the ring to create a pear-shaped dose. This proven dosimetry shape matches the anatomy of the cervix and endometrium. A rectal retractor can be used to push the rectal/vaginal wall to a fixed distance from the source.

### Intended for:

- Cervix
- Endometrium

### Note:

- The applicator can be sterilized using steam sterilization and ethylene oxide
- User manual 090.610

### Order information

#### Complete Ring applicator set, part # 084.050

Part number	Description
085.095	Ring tube, 30° (for set # 085.095)
085.096	Ring tube, 45° (for set # 085.096)
085.097	Ring tube, 60° (for set # 085.097)
084.072	Perineal bar
084.056	Ring tube, d = 34 mm, 30°
084.055	Ring tube, d = 34 mm, 45°
084.054	Ring tube, d = 34 mm, 60°
084.051	Ring cap, d = 34 mm

#### Ring applicator set 30°, part # 085.095

Part number	Description
084.062	Ring tube, d = 26 mm, 30°
084.059	Ring tube, d = 30 mm, 30°
084.065	Intrauterine tube, l = 20 mm, 30°
084.064	Intrauterine tube, l = 40 mm, 30°
084.063	Intrauterine tube, l = 60 mm, 30°
084.316	Rectal retractor, 30°
084.053	Ring cap, d = 26 mm
084.052	Ring cap, d = 30 mm
084.158	Sterilizing caps, 3.2 mm (50 pcs)

### Ring applicator set 45°, part # 085.096

Part number	Description
084.061	Ring tube, d = 26 mm, 45°
084.058	Ring tube, d = 30 mm, 45°
084.068	Intrauterine tube, l = 20 mm, 45°
084.067	Intrauterine tube, l = 40 mm, 45°
084.066	Intrauterine tube, l = 60 mm, 45°
084.335	Rectal retractor, 45°
084.053	Ring cap, d = 26 mm
084.052	Ring cap, d = 30 mm
084.158	Sterilizing caps, 3.2 mm (50 pcs)

### Ring applicator set 60°, part # 085.097

Part number	Description
084.060	Ring tube, d = 26 mm, 60°
084.057	Ring tube, d = 30 mm, 60°
084.071	Intrauterine tube, l = 20 mm, 60°
084.070	Intrauterine tube, l = 40 mm, 60°
084.069	Intrauterine tube, l = 60 mm, 60°
084.319	Rectal retractor, 60°
084.053	Ring cap, d = 26 mm
084.052	Ring cap, d = 30 mm
084.158	Sterilizing caps, 3.2 mm (50 pcs)

### Accessories

Part number	Description
084.051	Ring cap, d = 34 mm
084.056	Ring tube, d = 34 mm, 30° (requires part # 085.095)
084.055	Ring tube, d = 34 mm, 45° (requires part # 085.096)
084.054	Ring tube, d = 34 mm, 60° (requires part # 085.097)
084.072	Perineal bar (already included in part # 084.050)
084.078	Intrauterine tube, l = 20 mm, 90°
084.077	Intrauterine tube, l = 40 mm, 90°
084.076	Intrauterine tube, l = 60 mm, 90°
084.338	Rectal retractor, 90°
189.676 ● and following*	Smit Sleeves CT/MR for 4 mm intrauterine tube, l = 20 mm and longer, d = 6 mm (box of 10)

## Why the Ring applicator?

- Reproducible applicator geometry
- Straight-forward insertion and planning

\* For more options, refer to the "Accessories" section



## Adjustable Cervix Applicator Set

The Adjustable cervix applicator for intracavitary treatment is very user-friendly. The cylinders are available in different diameters to adapt to patient anatomy, optimize dose distribution and reduce the mucosal dose. The intrauterine tube is available in three curvatures with different lengths. Conjointly, this gives a versatile applicator for cervical, uterine, vaginal and rectal cancer treatment.

### Intended for:

- Cervix
- Endometrium
- Vagina
- Rectum

### Note:

- User manual 090.611
- Sterilization Advice Chart: 094.331

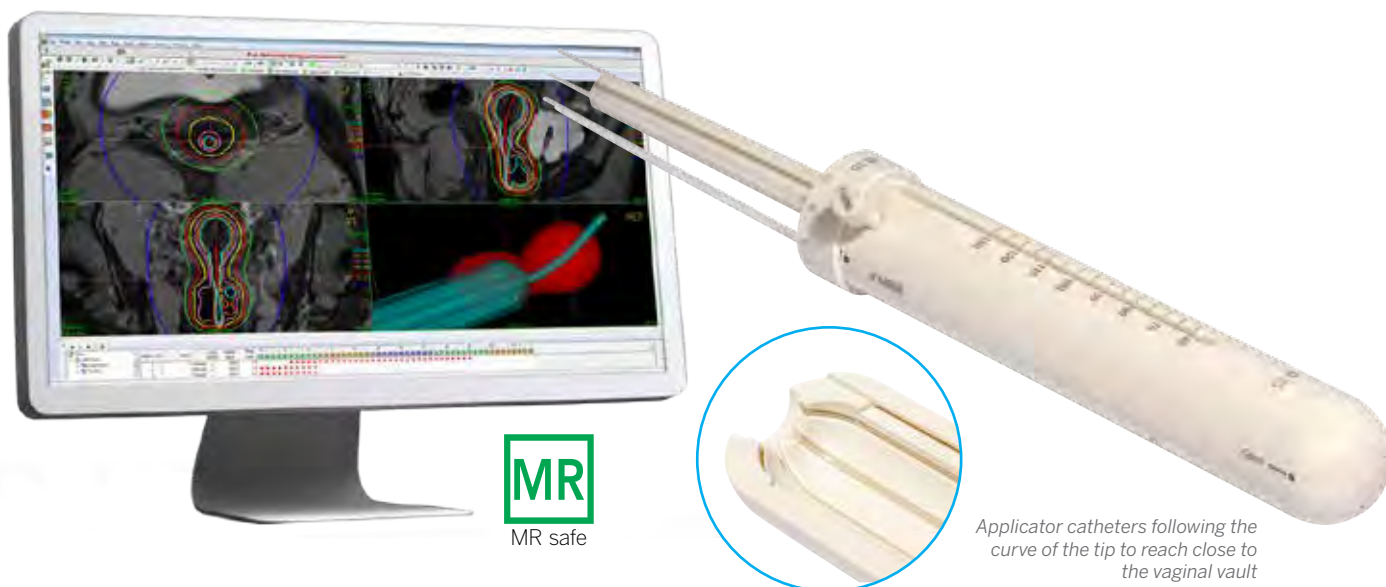
## Order information

Adjustable cervix applicator set, part # 084.450

Part number	Description
084.455	Intrauterine tube, straight
084.456	Intrauterine tube, angle 15°
084.457	Intrauterine tube, angle 30°
084.451	Cylinder, d = 20 mm, with marker
084.452	Cylinder, d = 25 mm, with marker
084.453	Cylinder, d = 30 mm, with marker
084.454	Cylinder, d = 35 mm, with marker
084.158	Sterilizing caps, 3.2 mm (pack of 50)

## Why the Adjustable cervix applicator set?

- User-friendly applicator
- Designed for treatment of the cervix, endometrium, vagina and rectum



## Vaginal CT/MR Multi Channel Applicator Set

### The precise dose delivery solution for vaginal brachytherapy

Bringing the right dose to the right place is critical in successful vaginal brachytherapy. The Vaginal CT/MR multi channel applicator has been specifically designed for gynecologic brachytherapy to provide accurate target coverage and maximum conformity for gynecologic malignancies.

### Reach where it matters most

The Vaginal CT/MR multi channel applicator features a unique design incorporating channels which follow the curve of the applicator tip. This brings the dosimetry measurably closer to the vaginal vault, allowing you to reliably and more effectively cover the planning target volume.

### Unique treatment precision

The channels, located immediately underneath the surface of the applicator, provide high accuracy and optimized treatment precision, while tailoring the dose to the target and saving the organs at risk around e.g. bowel and bladder.

### Practical design

The applicator is easy to assemble, clean and sterilize. It seamlessly integrates with Oncentra Brachy, which significantly improves the speed of planning and ensures precise and reproducible placement of the applicator. For quick and accurate treatment planning based on MRI, the applicator's geometry is incorporated in the Applicator Modelling functionality of Oncentra Brachy. The compatibility with Oncentra Brachy offers a unique solution for vaginal brachytherapy, combining precision with speed.

### Intended for:

- Vagina
- Cervix
- Endometrium

### Note:

- The center of the surface channels is located 5 mm underneath the cylinder surface
- The applicator can be sterilized using steam sterilization
- User manual for applicator 777.00171
- User manual for catheters 777.00172

## Order information

Vaginal CT/MR multi channel applicator set,  
part # 110.750

Part number	Description
101.002	Intravaginal tube
110.752	Set of cylinder components, Ø 25 mm (features 6 surface channels)
110.756	Set of cylinder components, Ø 30 mm (features 8 surface channels)
110.761	Set of cylinder components, Ø 35 mm (features 8 surface channels)
101.012	Sterilizing caps CT/MR (pack of 50)

## Accessories

Part number	Description
110.800*	Catheter set with collar 6F x 293 mm (delivered sterile and for single use only)
110.766	Set of cylinder components, Ø 40 mm (features 10 surface channels)
101.003	CT/MR intrauterine tube 15°, l = 40 mm, Ø 6 mm
101.004	CT/MR intrauterine tube 30°, l = 60 mm, Ø 6 mm
101.005	CT/MR intrauterine tube 45°, l = 80 mm, Ø 6 mm
110.787**	CT expansion set, featuring thin titanium intrauterine tubes l = 40, 60 and 80 mm
110.773	Perineal bar set
110.774	Perineal bar ventral
110.776	Perineal bar dorsal
110.779	Perineal bar lever
110.771	Set of fixations screws (5 pcs)
110.778	Applicator clamp adapter set
101.015	Sterilization box
101.069	IU3 x-ray marker for central tandem

\*Required for use.

\*\*When using titanium intrauterine tubes the applicator is MR unsafe.

## Why the Vaginal CT/MR multi channel applicator?

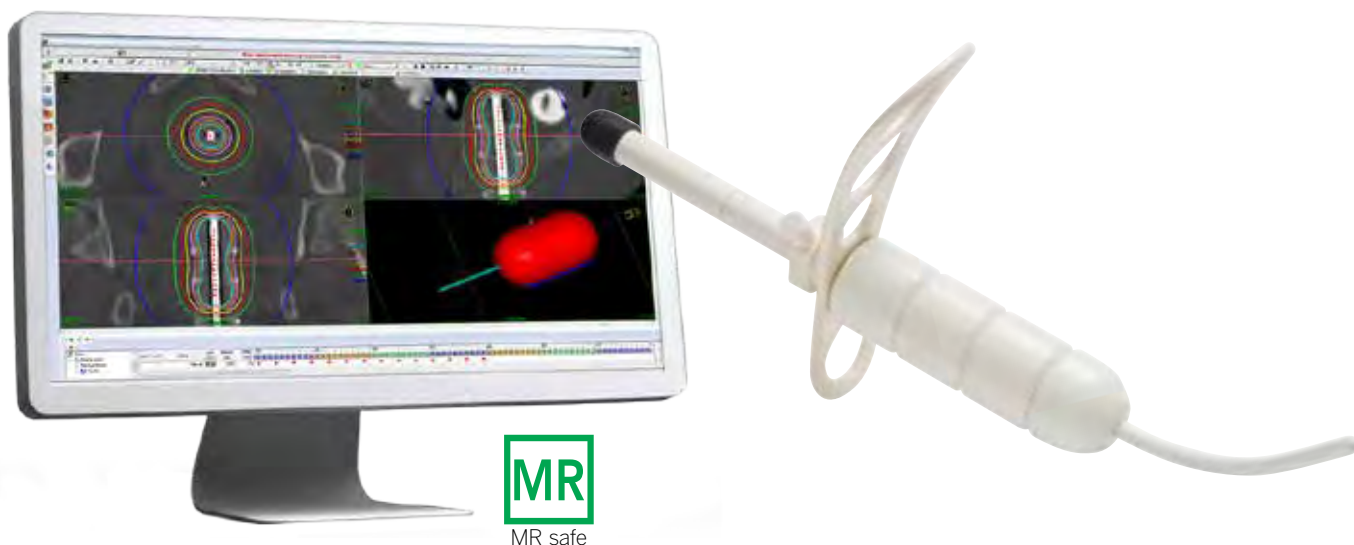
- Reach where it matters most
- Unique treatment precision
- Practical design
- MR safe; artifact-free images

“The vaginal CT/MR multi channel applicator allows me to get the exact target coverage I planned and gives me confidence in conformity in the treatment of my gynecologic cancer patients.”

### B.R. Pieters, MD, PHD

Head of Brachytherapy Department  
Academic Medical Centre (AMC), Amsterdam  
The Netherlands





## Vaginal CT/MR Applicator Set

The Vaginal CT/MR applicator set is designed for treatment of the vaginal cuff. This easy to use applicator is available in different cylinder diameters, to reduce the surface dose. By varying the number of segments of the cylinder, the length of the cylinder can be adapted to clinical needs. The non-metallic materials of the applicator set support its use in combination with CT and MR imaging modalities.

### Intended for:

- Vagina
- Cervix
- Endometrium
- Rectum

### Note:

- The most accurate dose effect of the shields in your plans can be calculated with Oncentra Brachy ACE (TG-186) for both Iridium-192 and Cobalt-60 sources. Oncentra Brachy also provides a shield approximation that can be used for TG-43 calculations for Iridium-192.
- This applicator can be sterilized using steam sterilization
- User manual 090.612

## Order information

Complete set, part # 101.001

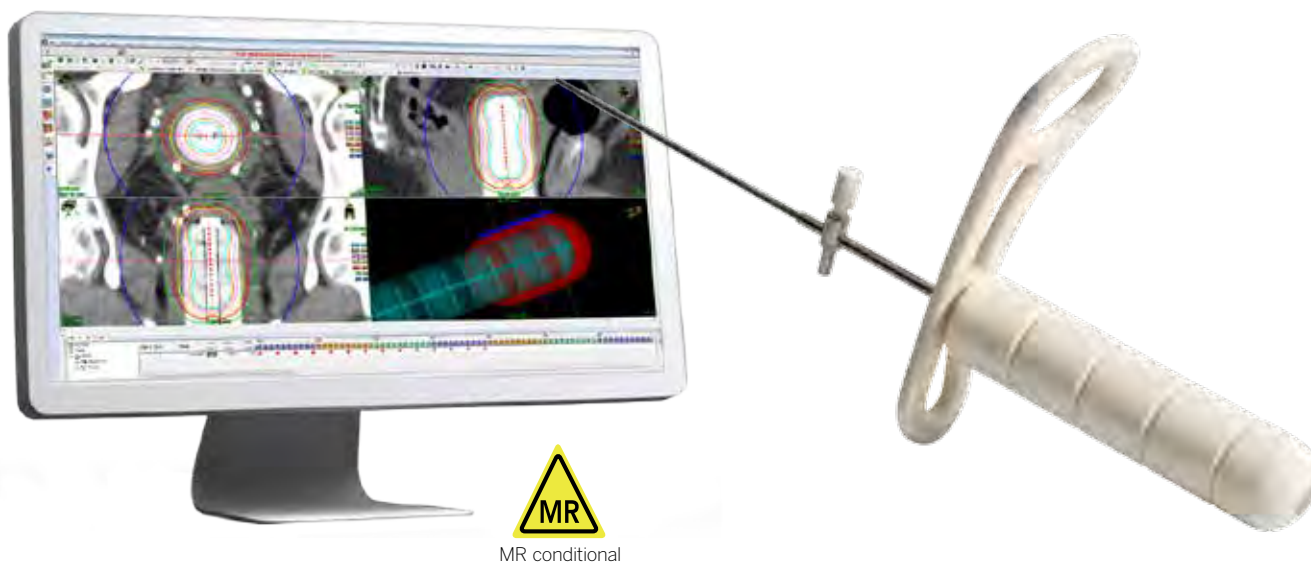
Part number	Description
101.002	Vaginal tube
101.003	CT/MR intrauterine tube 15°, l = 40 mm, Ø 6 mm
101.004	CT/MR intrauterine tube 30°, l = 60 mm, Ø 6 mm
101.005	CT/MR intrauterine tube 45°, l = 80 mm, Ø 6 mm
101.007	Set of 4 cylinders, 20 mm
101.008	Set of 4 cylinders, 25 mm
101.009	Set of 4 cylinders, 30 mm
101.010	Set of 4 cylinders, 35 mm
101.006	Cylinder fixation
101.013	Perineal bar
101.012	Sterilizing caps CT/MR (pack of 50)

## Accessories

Part number	Description
101.011	Set of 4 cylinders, 40 mm
189.566 ●	Smit Sleeve CT/MR (l = 40 mm, d = 9 mm)
101.015	Sterilization box
101.149	Knob PPSU (minimum order quantity is 5 pcs)

## Why the Vaginal CT/MR applicator?

- Reproducible dosimetry
- Easily adaptable to patient anatomy
- CT and MR compatible



## Vaginal Cylinder Applicator Set Titanium

The Vaginal cylinder applicator set titanium (Ti) is an easy solution for intracavitary vaginal treatments. When used with an intrauterine tube, the applicator also offers a simple solution for treatment of the cervix, rectum or endometrium. The embedded titanium markers in the cylinder segments support visualization of the inserted applicator while minimizing contamination risk. The set is available in a range of different diameters and curvatures of the intrauterine tube, to provide individually optimized treatment options and dose distribution.

### Intended for:

- Vagina
- Cervix
- Endometrium
- Rectum

### Note:

- Compatible with CT and MR (1.5T and 3T)
- The applicator can be sterilized using steam sterilization
- User manual 777.00282

## Order information

Vaginal cylinder applicator set Ti, part # 137.400

Part number	Description
137.194	Cylinder set, d = 20 mm
137.195	Cylinder set, d = 25 mm
137.196	Cylinder set, d = 30 mm
137.416	Intra-vaginal applicator tube (Ti)
137.402	Intra-vaginal/intrauterine tube, 40 mm (Ti)
137.403	Intra-vaginal/intrauterine tube, 60 mm (Ti)
137.404	Intra-vaginal/intrauterine tube, 80 mm (Ti)
137.401	Perineal bar 1
137.415	Spring lock tube (Ti)
137.570	Closing caps (25 pcs)

## Accessories

Part number	Description
101.149	Knob PPSU
137.197	Cylinder set, d = 15 mm
137.198	Cylinder set, d = 35 mm
137.199	Cylinder set, d = 40 mm
101.015	CT/MR sterilization box
189.677/679/ 682 ●	Smit Sleeve

## Why the Titanium vaginal cylinder applicator?

- Embedded markers for easy identification on images
- Strong and lightweight
- Compatible with CT and MR



## Shielded Cylindrical Applicator Set

The Shielded cylindrical applicator is designed for intracavitary treatments in which partial shielding is required to reduce the dose to critical organs. The shielding positions can be defined by the user through the use of tungsten alloy segments with different shielding angles. Markers indicate the position of the shielding. The effect of the shielding components can be modeled in Oncentra Brachy treatment planning software.

### Intended for:

- Vagina
- Rectum

### Note:

- This applicator can be sterilized using steam sterilization.
- The most accurate dose effect of the shields in your plans can be calculated with Oncentra Brachy ACE (TG-186) for both Iridium-192 and Cobalt-60 sources. Oncentra Brachy also provides a shield approximation that can be used for TG-43 calculations for Iridium-192.
- User manual 090.609

## Order information

### Shielded cylindrical applicator set, part # 084.320

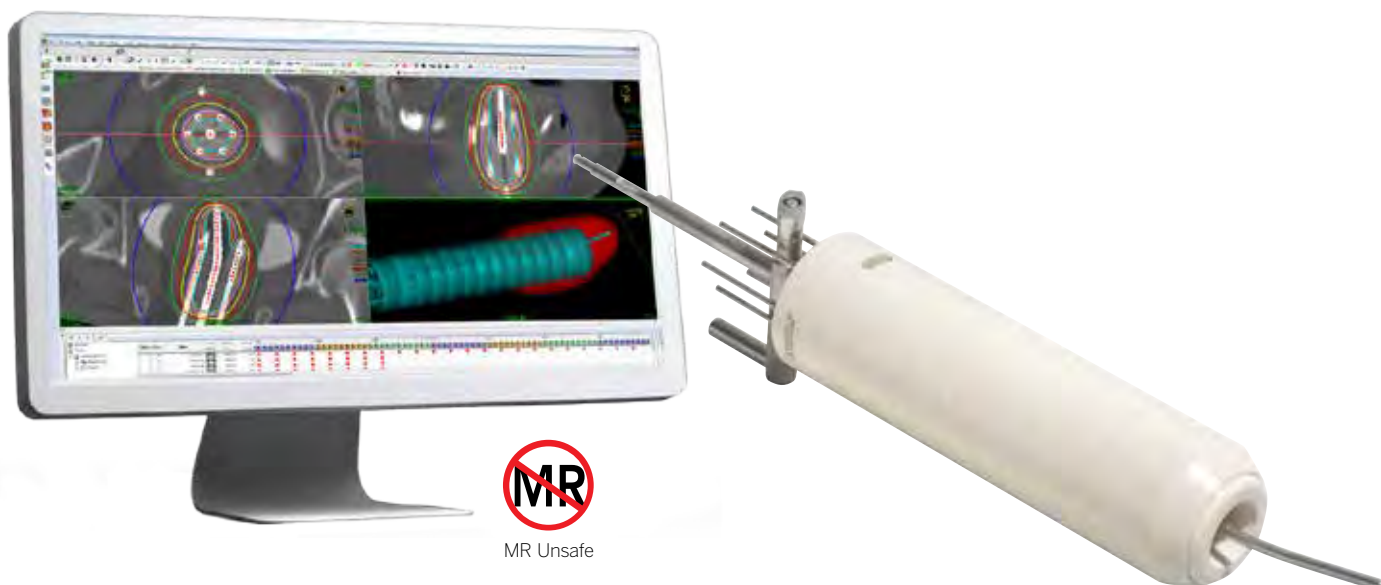
Quantity	Part number	Description
1	084.321	Central tube
1	084.329	Tungsten shielding, 180°
2	084.328	Tungsten shielding, 90°
1	084.322	Cylinder, d = 25 mm
1	084.323	Cylinder, d = 30 mm
1	084.324	Cylinder, d = 35 mm
1	084.325	Cylinder, d = 40 mm
1	084.327	Fixing nut
1	084.158	Sterilizing caps, 3.2 mm (50 pcs)

## Accessories

Part number	Description
084.348	Plastic filler, 90° geometry
084.349	Plastic filler, 180° geometry
101.015	Sterilization box

## Why the Shielded cylindrical applicator?

- Shielded segments for partial dose reduction to organs at risk
- Integrated markers for reconstruction of shielding on images



## Miami Vaginal Applicator Set

The Miami vaginal applicator set was developed in cooperation with the University of Miami. The applicator contains 6 lateral tubes, which are equally spaced around the surface of the cylinder for optimized treatment.

A central tube and different intrauterine tubes expand the possible treatment options. Three different curvatures of intrauterine tubes are included and adjust to the uterine length. The vaginal cylinder is 30 mm in diameter with cylinder sleeves of 35 and 40 mm. This enables versatility in the treatment of vaginal, cervical, uterine and rectal carcinomas.

### Intended for:

- Vagina
- Cervix
- Endometrium
- Rectum

### Note:

- The applicator can be sterilized using ethylene oxide or using steam sterilization (except for allen key screwdriver).
- User manual 090.601



## Order information

Miami vaginal applicator set, part # 085.210

Part number	Description
085.211	Central tube
084.455	Intrauterine tube, straight
084.456	Intrauterine tube, 15°
084.457	Intrauterine tube, 30°
085.212	Cylinder, d = 30 mm, with marker
085.213	Cylinder sleeve, d = 35 mm
085.214	Cylinder sleeve, d = 40 mm
085.218	Cone insert
006.182	Screwdriver
598.027	Allen key screwdriver 3 mm
083.147	Sterilizing caps, 1.9 mm (50 pcs)
084.158	Sterilizing caps, 3.2 mm (50 pcs)

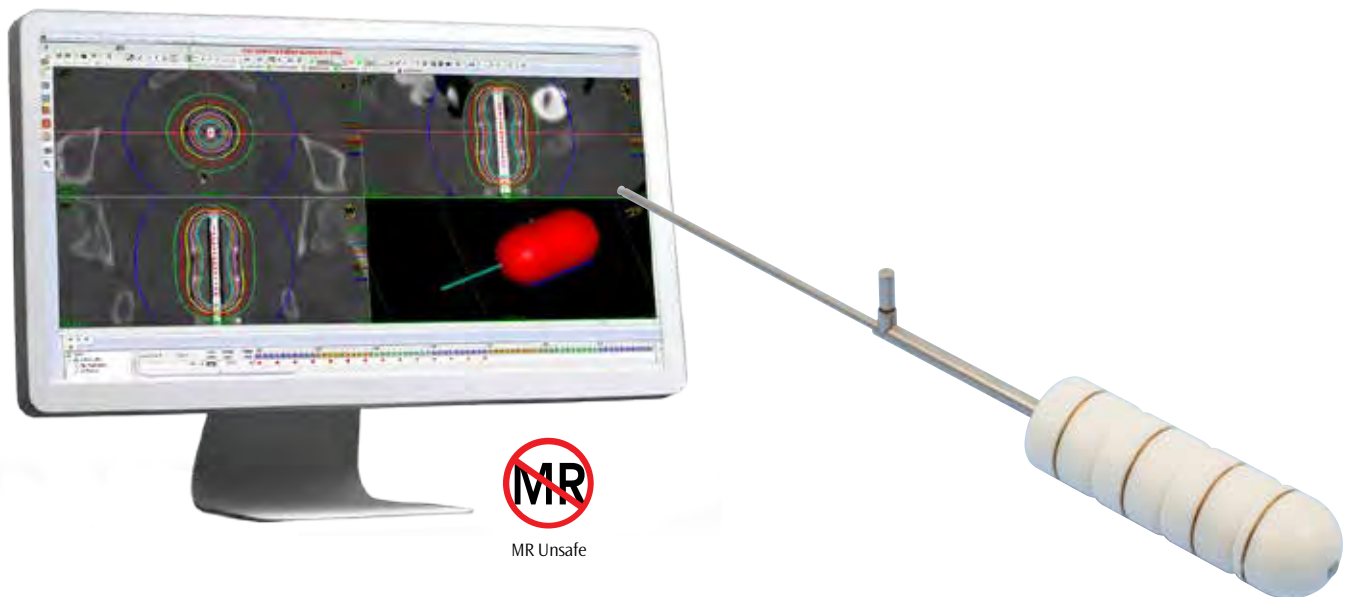
## Accessories

Part number	Description
189.676 and following*	● Smit Sleeves CT/MR for 4 mm intrauterine tube, l = 20 mm and longer, d = 6 mm (box of 10)

## Why the Miami vaginal applicator?

- Multiple surface channels for dose optimization

\*For more options, refer to the "Accessories" section



## Vaginal Applicator Set

The Vaginal applicator set for intracavitary treatment is very user-friendly. The set is available with three different lengths and curvatures of the intrauterine tube to provide additional treatment options. The cylinders are available in different diameters to optimize the dose distribution and reduce the mucosal dose.

The vaginal applicator can be used to treat vaginal cuff, cervix, rectum or endometrium when used with an intrauterine tube.

### Intended for:

- Vagina
- Cervix
- Endometrium
- Rectum

### Note:

- The applicator can be sterilized using steam sterilization and ethylene oxide
- User manual 090.606

## Order information

### Vaginal applicator set, part # 084.350

Part number	Description
084.002	Vaginal tube
084.003	Intrauterine tube, l = 40 mm, 15°
084.004	Intrauterine tube, l = 60 mm, 30°
084.005	Intrauterine tube, l = 80 mm, 45°
084.010	Cylinder locking pipe
084.351	4 cylinder parts, d = 20 mm, with marker
084.352	4 cylinder parts, d = 25 mm, with marker
084.353	4 cylinder parts, d = 30 mm, with marker
084.354	4 cylinder parts, d = 35 mm, with marker
084.158	Sterilizing caps, 3.2 mm (50 pcs)

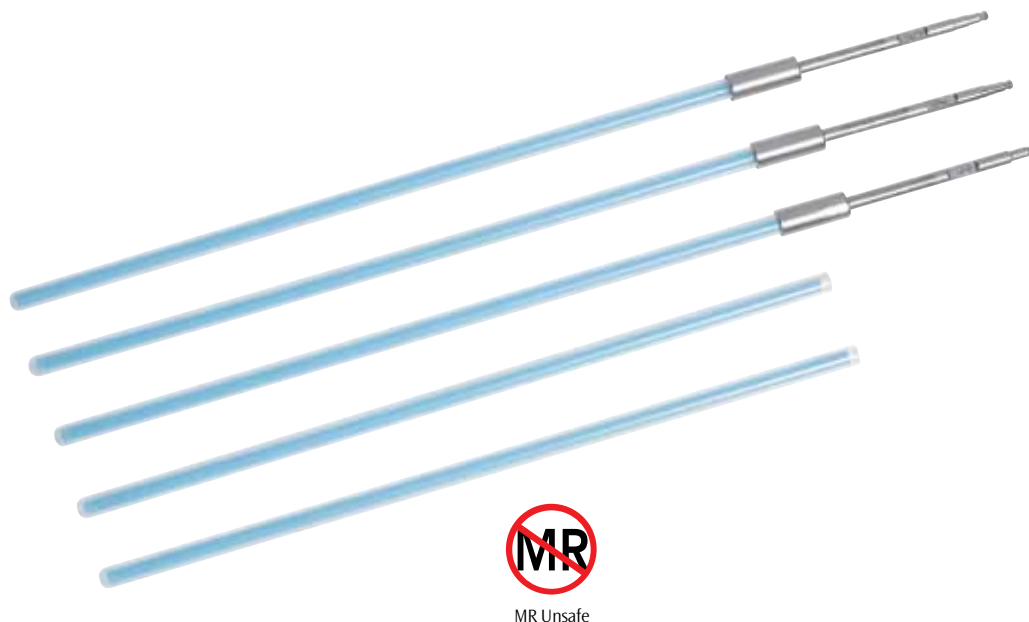
### Accessories

Part number	Description
084.008	Perineal bar
084.919	Fixing nut
084.009	Cervical stopper
084.355	4 cylinder parts, d = 40 mm with marker
084.875	4 cylinder parts, d = 15 mm with marker
101.149	Knob PSU
189.676 and following*	● Smit Sleeves CT/MR for 4 mm intrauterine tube, l = 20 mm and longer, d = 6 mm (box of 10)
101.015	CT/MR sterilization box

## Why the Vaginal applicator?

- Reproducible dosimetry
- Easily adaptable to patient geometry

\*For more options, refer to the "Accessories" section



## Vaginal Mould Applicator Set

The Vaginal mould applicator set was developed in close cooperation with Center Oscar Lambret in Lille, France. It enables the user to apply the French “moulage”, or Institut Gustave Roussy, technique for afterloading. The aim of this method is a personalized mold for irradiation with precise dose distribution and good patient tolerance. The set consists of three, mechanically coded, stainless steel channel assemblies which can be easily connected to the flexible vaginal mould tubes. These are embedded in the customized mold.

### Intended for:

- Vagina
- Cervix

### Note:

- The vaginal mould channel assemblies are reusable, and can be sterilized using steam sterilization and ethylene oxide
- The vaginal mould tubes are for single use only, and can be sterilized using ethylene oxide before use
- User manual 090.708

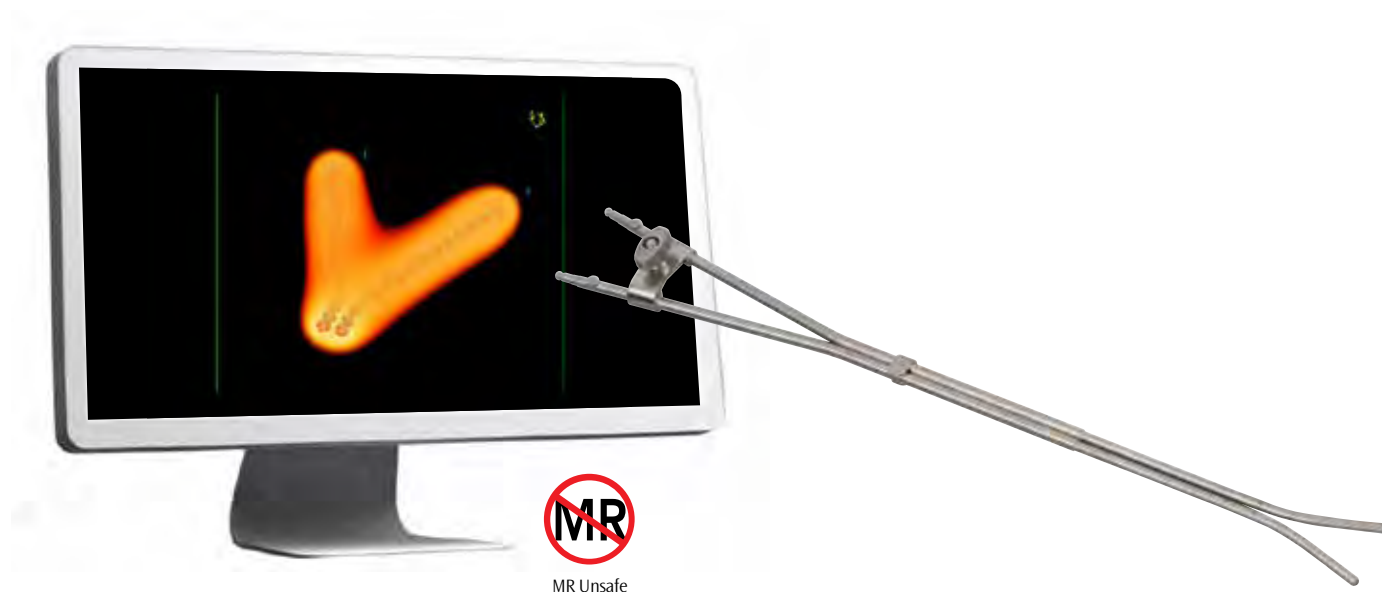
## Order information

Vaginal mould applicator set, part # 189.018

Part number	Description
189.020	Vaginal mould channel 1 assembly
189.021	Vaginal mould channel 2 assembly
189.022	Vaginal mould channel 3 assembly
189.019 ●	Vaginal mould tubes set (30 pcs)
084.158	Sterilizing caps (50 pcs)

## Why the Vaginal mould applicator?

- Tailored irradiation
- Precise dose distribution



## Rotte Endometrial Applicator Set

The Rotte endometrial applicator (or Rotte “Y” applicator) has been developed with Professor K. Rotte of the Universitäts-Frauenklinik, Würzburg, Germany, and is specifically designed for high dose rate treatment of the endometrium. The applicator is easy to insert, using two opposed intrauterine tubes. The intrauterine tubes can be locked in position with a single action. Once locked, the applicator has a fixed geometry which provides excellent reproducibility of the dose distribution.

### Intended for:

Endometrium

### Note:

- Excellent reproducibility of dose distribution
- Straightforward workflow
- Designed for reuse
- User manual 090.620
- Sterilization advice chart: 094.238

### Order information

Basic Rotte applicator set, 32 mm, part # 084.230

Part number	Description
084.231	Applicator tube 1, right uterus
084.232	Applicator tube 2, left uterus
084.158	Sterilizing caps, 3.2 mm (50 pcs)

Complete set, part # 084.434

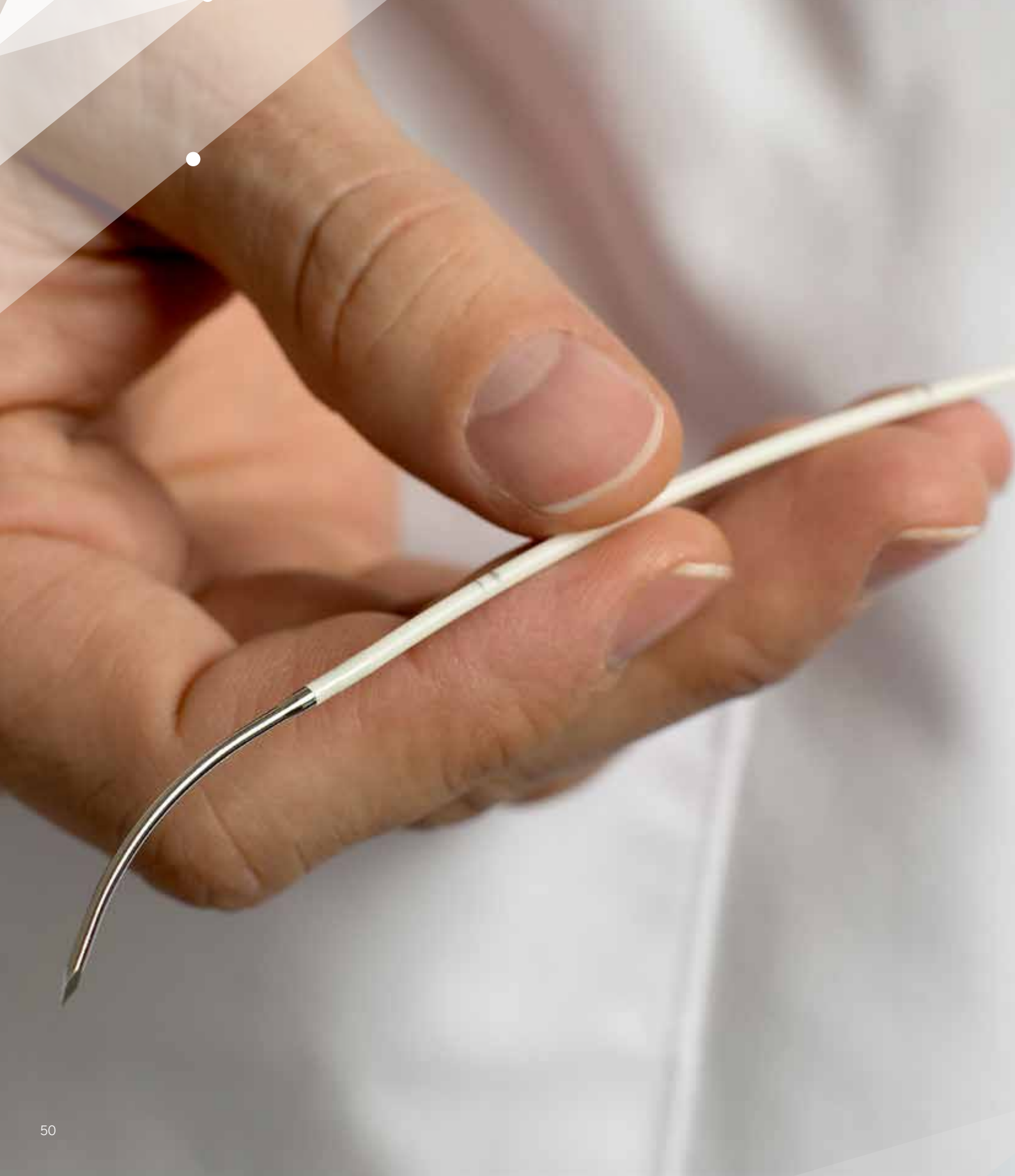
Part number	Description
084.435	Basic Rotte applicator set, 20 mm
084.230	Basic Rotte applicator set, 32 mm
084.436	Basic Rotte applicator set, 40 mm
084.437	Basic Rotte applicator set, 50 mm
084.158	Sterilizing caps, 3.2 mm (50 pcs)

## Why the Rotte endometrial applicator?

- Dedicated for use in the endometrium
- Easy to insert
- Excellent reproducibility



# Prostate, Rectum & Bladder



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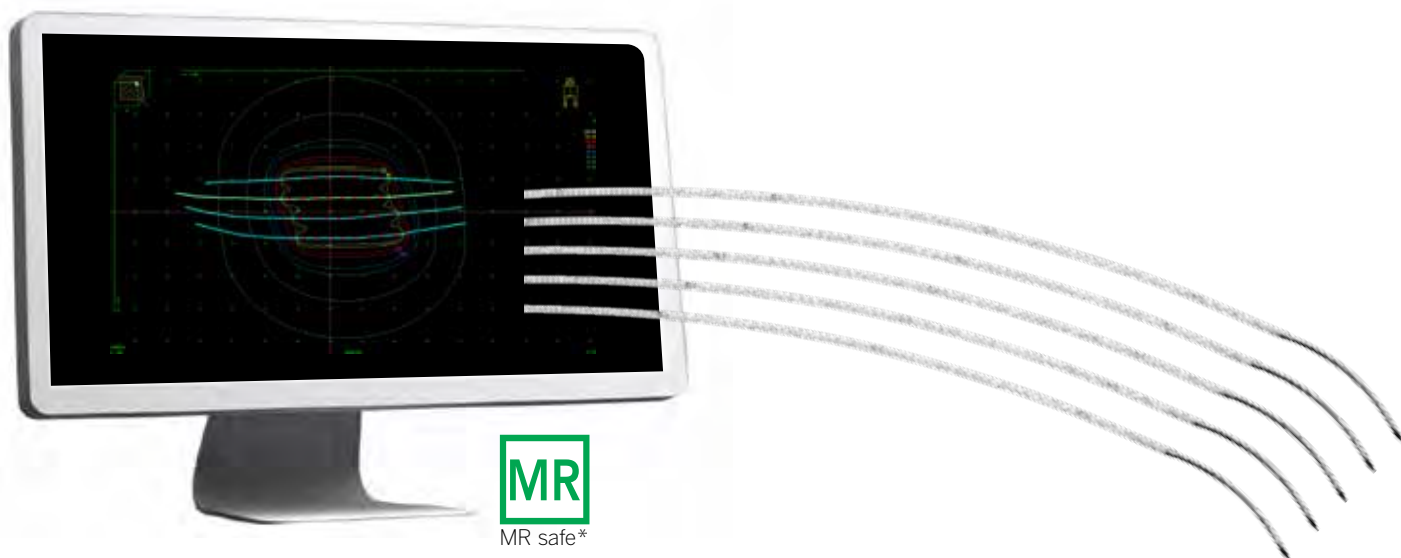
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### **ALTERNATIVES FOR RECTAL BRACHYTHERAPY**

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## Luneray® Catheter

Brachytherapy is a well-known treatment for certain types of bladder cancer, with good clinical outcome. A key advantage of brachytherapy is the potential to spare the bladder, which improves the quality of life for the patient. A hurdle for the adoption of bladder brachytherapy, however, was the invasiveness and complexity of the procedure.

Luneray overcomes this barrier by offering a unique system of an integrated catheter and needle, designed to enable laparoscopic, minimally invasive bladder brachytherapy procedures.

### Unique catheter/needle system

Luneray combines a flexible catheter with a curved needle which enables a minimally invasive catheter placement.

### Precise catheter placement

Luneray's state-of-the-art curved needle design allows for optimal maneuverability and precise catheter placement for accurately targeted bladder brachytherapy procedures. The catheter is made of exclusive material and compiled with fill-wire, offering unsurpassed kink-resistance.

### Enables organ-sparing, laparoscopic procedures

Luneray is designed to enable minimally invasive access to the bladder. Minimally invasive procedures are associated with quick recovery and fewer complications, supporting a patient friendly treatment.

### Intended for:

Interstitial brachytherapy of soft tissue that allows the insertion of this flexible applicator, e.g.:

- Abdominal structures / organs (e.g. urinary bladder)
- Head and neck (e.g. ear, lip, nose, tongue, oral mucosa)
- Skin (e.g. keloids)
- Soft tissue sarcoma

### Note:

- Each package holds five, identical, pre-assembled needle/catheter products, single packed in a double pouch
- Radio-opaque buttons to fixate the catheter after insertion. Available in 7 different colors
- Imaging for treatment planning and verification by way of X-ray, CT and MR
- Centimeter marks: every 5 cm (line and number)
- Detailed marking in the center of the catheter to assist accurate catheter placement: 1 cm increments between 20-22 cm and 28-30 cm
- Manual number 777.00293

\* The Luneray catheter is MR safe when the needle is removed as described in the user manual.

- Luneray: MR unsafe
- Luneray-needle: MR unsafe
- Luneray-catheter: MR safe

## Technical specifications

### Luneray catheter/needle system

	Catheter	Needle
Main material	Polyamide PA6427	Stainless Steel AISI316
Magnetic Resonance Imaging (MR)	MR safe	MR unsafe
Usage	Single use	Single use
Sterility	Delivered sterile	Delivered sterile
Diameter	6F	6F
Length	50 cm	37, 47, 57 or 67 mm <sup>1</sup>
Curvature (radius)	- -	30, 45, 60, 75 mm <sup>1</sup>

<sup>1</sup> the needles have a fixed length/radius combination, e.g. length 37 mm, radius 30 mm

## Order information

### Available Luneray configurations

Part number	Description
110.564 ●	Luneray™ catheter, 6F, 50 cm, needle l = 37 mm, radius 30 mm (5 pcs)
110.565 ●	Luneray™ catheter, 6F, 50 cm, needle l = 47 mm, radius 45 mm (5 pcs)
110.566 ●	Luneray™ catheter, 6F, 50 cm, needle l = 57 mm, radius 60 mm (5 pcs)
110.567 ●	Luneray™ catheter, 6F, 50 cm, needle l = 67 mm, radius 75 mm (5 pcs)

## Accessories

Part number	Description
189.367	Cutter for flexibles (1 pcs)
189.282 ●	Radio-opaque button white, 6F (72 pcs)
189.284 ●	Radio-opaque button black, 6F (72 pcs)
189.286 ●	Radio-opaque button red, 6F (72 pcs)
189.288 ●	Radio-opaque button blue, 6F (72 pcs)
189.290 ●	Radio-opaque button green, 6F (72 pcs)
189.292 ●	Radio-opaque button yellow, 6F (72 pcs)
189.294 ●	Radio-opaque button brown, 6F (72 pcs)

## Why the Luneray catheter?

- Unique catheter/needle system enables minimally invasive catheter placement
- State-of-the-art needle design for optimal maneuverability and precise placement
- Enables organ-sparing, laparoscopic procedures – supporting a patient friendly treatment and quick recovery

“The Luneray catheter creates new opportunities to treat select bladder cancers in a minimally invasive way.”

### G. Smits, MD, PhD

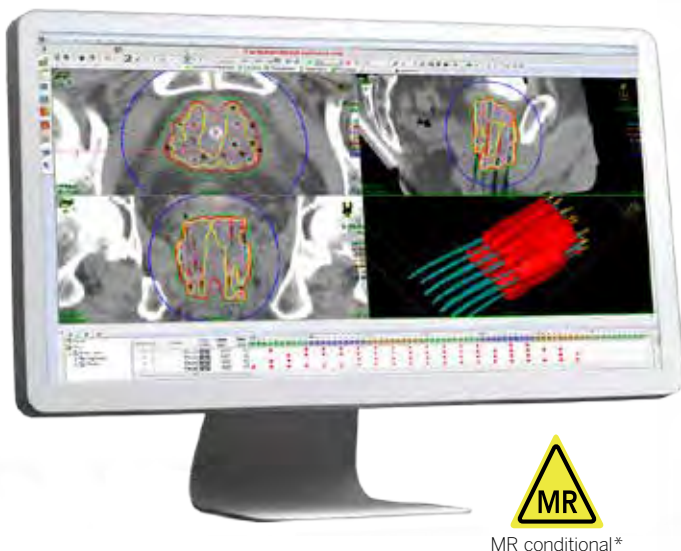
Urologist

Rijnstate hospital, Arnhem, The Netherlands

### E. van der Steen – Banasik, MD

Radiation oncologist

Arnhem radiotherapy institute, The Netherlands



## Martinez Prostate Template Set

The Martinez brachytherapy prostate template has been designed to assist in enhancing precision. The ultra light template locks to the stepper or stabilizer during insertion and guides needles under ultrasound imaging. The needles can be individually re-positioned and locked for treatment. The individual locking insert ensures that the position of each needle will remain unchanged when adjusting another needle.

### Part of the real-time prostate brachytherapy solution

Elekta's real-time prostate brachytherapy solutions were developed with one goal in mind: offer a real-time workflow for HDR and LDR prostate brachytherapy, in which the treatment is, or can be, provided in a single session. The integration of all components in one prostate brachytherapy solution ensures that products interact seamlessly. With a design leading to highly conformal and uniform prostate brachytherapy treatment plans, users can be sure that clinical objectives are met in the most efficient and dedicated way.

### Intended for:

Assisting interstitial brachytherapy of the prostate gland

### Note:

- The template set can be sterilized using steam sterilization
- User manual 777.00117

*\*Non-clinical testing demonstrated that the Martinez prostate template is MR Conditional. A patient can be scanned safely, immediately after placement under the following conditions:*

- Static magnetic field of 1.5 Tesla or 3 Tesla
- Maximum spatial gradient magnetic field of 720 gauss/cm
- Maximum MR system reported, whole body averaged specific absorption rate (SAR) of 2 W/kg for 15 minutes of scanning (i.e. per pulse sequence)

## Order information

### Martinez prostate template set, part # 137.280

Part number	Description
137.281	Martinez prostate template
137.290	Needle Lock tool
137.285	Template fixation pin set

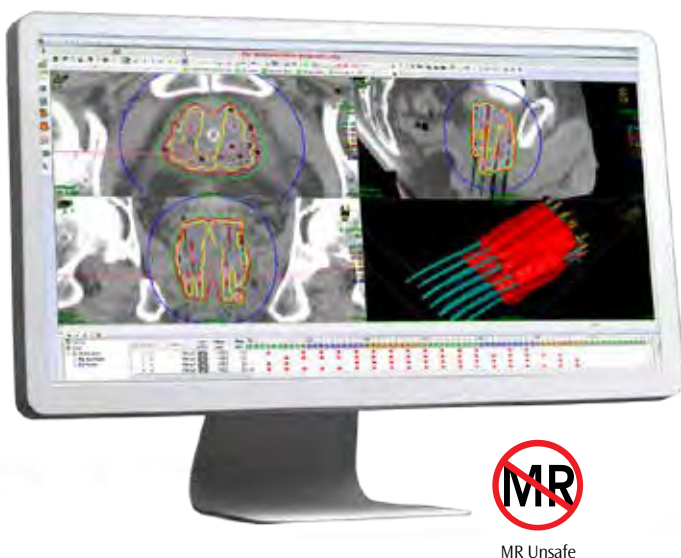
### Accessories

Part number	Description
137.286 ●	Lock inserts set for 5F plastic needles
137.287 ●	Lock inserts set for 6F plastic needles
137.289 ●	Lock inserts set for 1.5 mm metal needles
137.290	Needle lock tool
137.282	Template holder for RTP stepper
137.283	Template holder for Accuseed stepper
137.284	Template holder for D&K & Civco classic Accucare stepper
137.949	Template holder for OncoSelect stepper. Material aluminum / stainless steel
various** ●	ProGuide needles 5F
various** ●	ProGuide needles 6F
various**	Ø1,5 mm needles

\*\*See section needles & flexible implant tubes.

## Why the Martinez prostate template set?

- Small ultra light template
- Individual needle locks for various needle sizes
- Quick implant removal
- Can be used with a stepper or freehand technique



MR Unsafe



## Prostate Stepper Template Set

The Prostate stepper template set is an excellent solution for applying interstitial techniques in HDR prostate treatments. It is placed in a stepper holder, which is available for various ultrasound stepper devices.

### Convenient design supporting a variety of needles

The prostate stepper template is designed for guidance and fixation of OncoSmart ProGuide plastic needles in sizes 5F and 6F. This square light-weight template has a universal 5 mm grid array and a single-action locking system that locks all implanted needles in a single movement. The single-action locking system accelerates the procedure and is designed to eliminate inadvertent movement of individual needles. Optional grid face plates for the template correspond with the grid of the ultrasound system used, such as GE/ Siemens and B&K ultrasound systems. Grid face plates help determine the correct needle position with use of the ultrasound image, and can be mounted on the template itself or on the stepper holder.

### Part of the real-time prostate brachytherapy solution

Elekta's Real-time prostate brachytherapy solutions were developed with one goal in mind: offer a real-time workflow for HDR and LDR prostate brachytherapy, in which the treatment is, or can be, provided in a single session. The integration of all components in one prostate brachytherapy solution ensures that products interact

seamlessly. With a design leading to highly conformal and uniform prostate brachytherapy treatment plans, users can be sure that clinical objectives are met in the most efficient and dedicated way. Prostate stepper template is best used in combination with ProGuide needles and OncoSelect stepper.

### Intended for:

- Prostate
- Vagina
- Perineum
- Rectum

### Note:

- Holder and grid face plates need to be ordered separately
- User manual 090.699

### Order information

[Complete prostate stepper template set 5F, part # 189.069](#)

Quantity	Part number	Description
1	189.066	Prostate stepper template, 5F
2	189.604	OncoSmart ProGuide sharp needle set, 5F x 240 mm



### Prostate stepper template set, 5F part # 189.066

Quantity	Part number	Description
1	189.157	Base plate stepper 5F
1	189.160	Front plate stepper 5F
1	189.166	Fixation plate support assembly
1	189.164 ●	Disposable fixation plates 5F, 10 pcs
1	189.167	Eccentric axle
2	189.170	Assembly bolt template
1	189.205	Assembly screwdriver
1	189.173	Fixation screwdriver
1	189.041	Cleaning brush set ø3 x 100 mm
1	189.043	Cleaning brush set ø6.5 x 100 mm

#### Fixation plates

Part number	Description
189.164 ●	Set of 10 disposable fixation plates, 5F (5x2)

### Complete prostate stepper template set 6F, part # 189.070

Quantity	Part number	Description
1	189.067	Prostate stepper template, 6F
2	189.602 ●	OncoSmart ProGuide sharp needle set, 6F x 200 mm

### Prostate stepper template set, 6F part # 189.067

Quantity	Part number	Description
1	189.158	Base plate stepper 6F
1	189.161	Front plate stepper 6F
1	189.166	Fixation plate support assembly
1	189.165 ●	Disposable fixation plates 6F (10 pcs)
1	189.167	Eccentric axle
2	189.170	Assembly bolt template
1	189.205	Assembly screwdriver
1	189.173	Fixation screwdriver
1	189.041	Cleaning brush set ø3 x 100 mm
1	189.043	Cleaning brush set ø6.5 x 100 mm

#### Fixation plates

Part number	Description
189.165 ●	Set of 10 disposable fixation plates, 6F (5x2)

#### Stepper holders

Part number	Description
189.071	Stepper holder set, Tayman
189.083	Stepper holder assembly, Tayman 44.5 mm
189.075	Stepper holder assembly, Tayman 73.4 mm
189.072	Stepper holder set, OncoSelect
189.076	Stepper holder assembly, OncoSelect
189.092	Stepper holder set, B-K
189.095	Stepper holder assembly, B&K
189.093	Stepper holder set, Barzell-Whitmore
189.096	Stepper holder assembly, BW-MB

## Why the Prostate stepper template?

- Single-action needle locking supports fast and secure implants
- Universal grid array for easy guidance of needles
- Compatible with a wide range of stepper devices

“When performing prostate HDR brachytherapy you need flexible tools to adapt to all clinical situations, Prostate stepper template gives you exactly what you need.”

#### Alberto Bossi, MD

*Gustave Roussy*

*Genito Urinary Oncology*

*Head of Prostate Brachytherapy Unit*

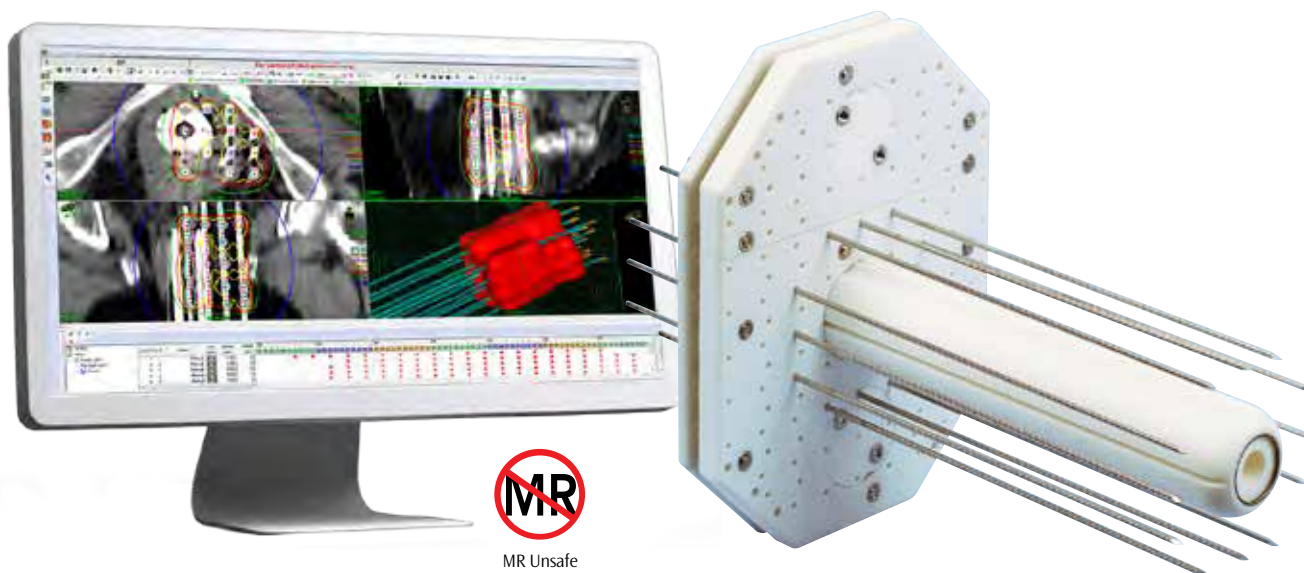
*Villejuif Cedex - France*

#### Grid Face plates

Part number	Description
189.073	Grid face plate set, GE/Siemens
189.174	Grid face plate, GE/Siemens
189.206	Grid L-frame for GE/Siemens
189.074	Grid face plate set, B&K
189.175	Grid face plate, B&K
189.207	Grid L-frame, B&K

#### Accessories

Part number	Description
504.910R	LBB screw 2.5 x 4R



## Martinez Universal Perineal Interstitial Template (MUPIT) Applicator Set

The Martinez Universal Perineal Interstitial template (MUPIT) is designed for interstitial placement of needles (1.5 mm or 1.9 mm) to treat cancer in the perineum, rectum or vagina. The periphery of the template has angled holes for the needles to reach the widest tumor spread. Rectal and vaginal cylinders are included to provide better template stability and additional treatment options.

### Intended for:

- Perineum
- Rectum
- Vagina

### Note:

- Only metal needles (Ø 1.5 or 1.9 mm) can be used with these sets. ProGuide needles cannot be used
- The applicator can be sterilized using steam sterilization or ethylene oxide
- User manual 090.629

## Order information

Complete set Ø 1.5 mm, part # 089.055

Complete set Ø 1.9 mm, part # 083.570

Complete sets consist of:

Quantity	Ø 1.5 mm set Part number	Ø 1.9 mm set Part number	Description
1*	089.056	083.571	MUPIT template subset
35*	083.918	083.054	Trocar needle 120 mm
35*	083.922	083.058	Trocar needle 160 mm
35*	083.926	083.062	Trocar needle 200 mm
3*	089.005	083.254	Obturator 120 mm
3*	089.009	083.258	Obturator 160 mm
3*	089.013	083.262	Obturator 200 mm

Template subset Ø 1.5 mm, part # 089.056

Template subset Ø 1.9 mm, part # 083.571

Template subsets consist of:

Quantity	Ø 1.5 mm set part number	Ø 1.9 mm set part number	Description
1	045.459	083.590	Base plate, small
1	045.457	083.588	Base plate filler, 12 mm hole
2	045.450		Cover plate filler, needles
1	045.449		Cover plate filler, 8 mm hole
1	045.460	083.586	Rectal cylinder
2	--		Screw for base plate
1	045.458	083.589	Base plate, large
3	045.456	083.587	Base plate filler, needles
1	045.443		Cover plate
1	045.448		Cover plate filler, 12 mm hole
1	045.461	083.581	Vaginal cylinder
3	045.171	083.289	Cylinder adapter, needle
14	045.172		Fixing screw, cover plate
2	--		Screw for cylinder
2	--		Screw for 045.449
1	598.026		Allen key screwdriver, 2.5 mm
1	045.004		Torque screwdriver, 1.27 mm
35*	089.025	045.303	Needle stopper
2	045.455		Fixing screw, for 045.449

## Why the MUPIT applicator template?

- Easy to use template for a variety of bodysite treatments
- Needle placement provides dose optimization to the area of interest

\*When ordered separately the minimum order quantity is 10 pcs.



## Intracavitary Mold Applicator Set

### Enhanced conformal dose delivery in intracavitary brachytherapy

Brachytherapy offers an exciting opportunity for tailored coverage of the treatment target in intracavitary treatments, such as endorectal brachytherapy. The intracavitary mold enables a highly conformal intracavitary solution that facilitates short treatment times.

### Co-developed with leading specialists

The intracavitary mold has been developed in the context of the high dose rate endorectal brachytherapy (HDREBT) protocol of the McGill University Health Center in Montreal, Canada aimed at tumor downgrading and down-staging before (neo-adjuvant) surgery.

### Effective, comfortable and efficient

The intracavitary mold has been designed to tailor the dose to asymmetrically located tumors in anatomical cavities. Its flexible cylinder material can be bent gently during insertion to minimize patient discomfort while it optimizes conformal target coverage.

Eight radially spaced treatment catheters, placed just under the cylinder surface, can be differentially loaded on a slice-by-slice basis along the entire tumor length to ensure tailored target coverage that spares uninvolved tissue.

The central opening in the applicator can accommodate an optional central treatment catheter. Alternatively, the central opening can be used to insert shielding solutions provided by the user.

### Intended for:

- Rectum

### Note:

- The intracavitary molds are single-packed and for single use only
- Kink protection sets are packed separately (5 sets per box).
- The reusable parts of this applicator can be sterilized using steam sterilization (at 134°C / 273°F)
- User manual 090.705

## Order information for Flexitron

Intracavitary mold applicator set Ft,  
part # 110.224

Part number	Description
110.544 ●	Intracavitary mold set Ft (box 5)
189.099	Support block
189.256	Number tag ring
189.264	Insertion tool ø 4 mm
189.257	Insertion tool ø 8 mm
189.277	Insertion tool ø 10 mm
089.786	Screwdriver
189.040	Cleaning brush set ø 2.5 mm x 250 mm (set of 3)
189.043	Cleaning brush set ø 6.5 mm x 100 mm (set of 3)

### Accessories

Part number	Description
110.544	Intracavitary mold set (Ft) ø 20 mm (box of 5)
110.390 ●	Central catheter set (box of 5)
189.538	Kink protection set (box of 5)
189.932	Applicator clamp and base plate
189.931	Applicator clamp with axle

## Order information for microSelectron

Intracavitary mold applicator set,  
part # 189.011

Part number	Description
189.094 ●	Intracavitary mold set, ø 20 mm (box of 5)
189.099	Support block
189.256	Number tag ring
189.264	Insertion tool ø 4 mm
189.257	Insertion tool ø 8 mm
189.277	Insertion tool ø 10 mm
089.786	Screwdriver
189.040	Cleaning brush ø 2.5 mm x 250 mm (set of 3)
189.043	Cleaning brush ø 6.5 mm x 100 mm (set of 3)

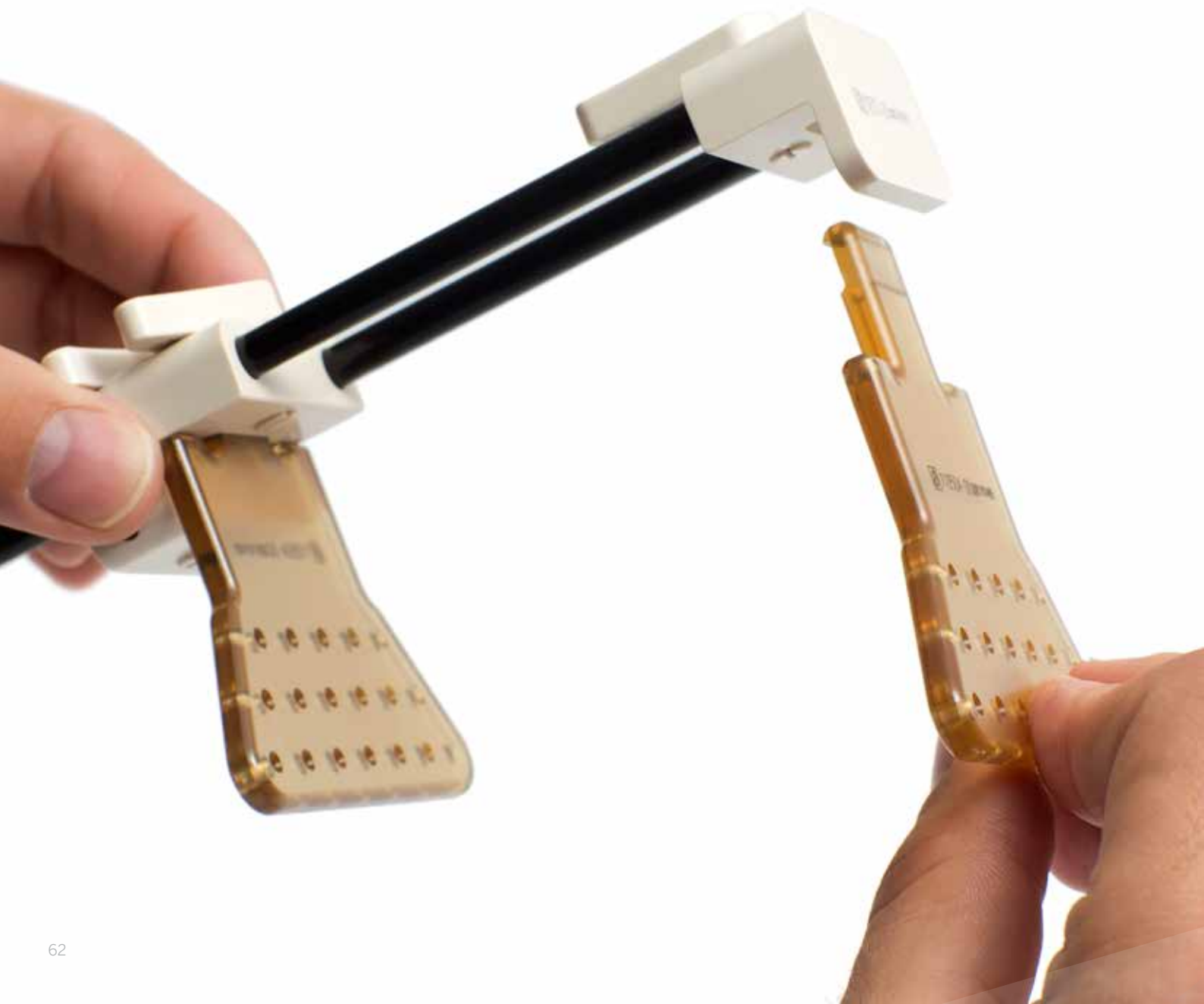
### Accessories

Part number	Description
189.094 ●	Intracavitary mold set, ø 20 mm (box of 5)
189.538	Kink protection set (box of 5)
189.932	Applicator clamp and base plate
189.931	Applicator clamp with axle

## Why the Intracavitary mold applicator?

- Tailor the dose to asymmetrically located intracavitary tumors
- Minimize patient discomfort

# Breast



## Content

### **BREAST TEMPLATES**

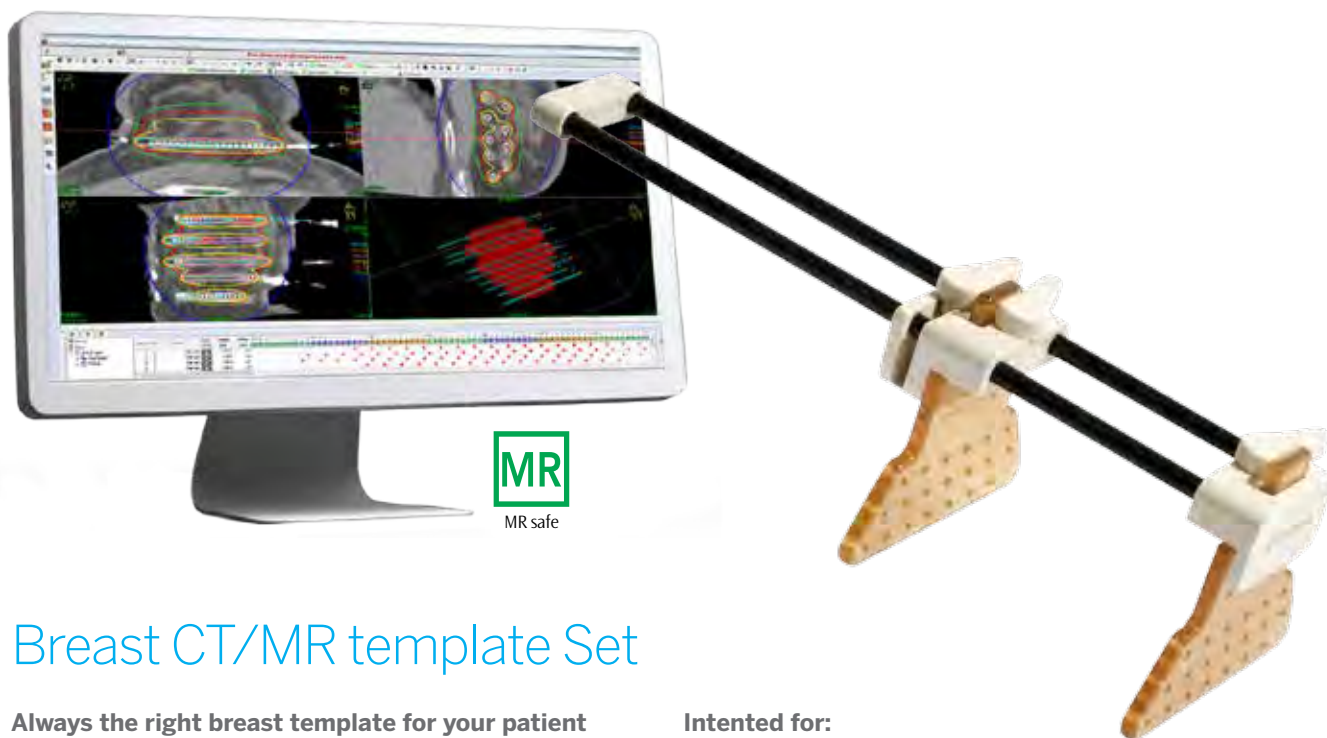
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### **ONCOSMART CATHETERS**

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## Breast CT/MR template Set

### Always the right breast template for your patient

The advanced breast CT/MR template set smoothly guides needles for multi-catheter implants. The template's lightweight design provides patient comfort. Levers allow for easy assembly and placement of the templates for treatment. The non-metallic materials enable template use in combination with CT and MR imaging.

### Convenience through preconfigured templates

A range of preconfigured templates is included in the set, offering the best choice for a particular implant. Each of these template configurations provides a dose distribution according to the Paris Dosimetry system.

### Intended for:

Interstitial breast brachytherapy

### Note:

- CT and MR compatible (all field strengths)
- The breast CT/MR template set can be sterilized using steam sterilization
- User manual 777.00141



## Order information

### Breast CT/MR template set, part # 110.518

Part number	Set components
110.517	Adjustable template bridge
110.536	Set of template levers
110.516	Double plane, 10 mm template pairs, 5 pairs: 3-4, 4-5, 5-6, 6-7 and 7-8 holes.
110.519	Double plane, 16 mm template pairs, 5 pairs: 3-4, 4-5, 5-6, 6-7 and 7-8 holes.
110.520	Triple plane, 10 mm template pairs, 4 pairs: 3-4-5, 4-5-6, 5-6-7 and 6-7-8 holes.
110.523	Triple plane, 16 mm template pairs, 4 pairs: 3-4-5, 4-5-6, 5-6-7 and 6-7-8 holes.

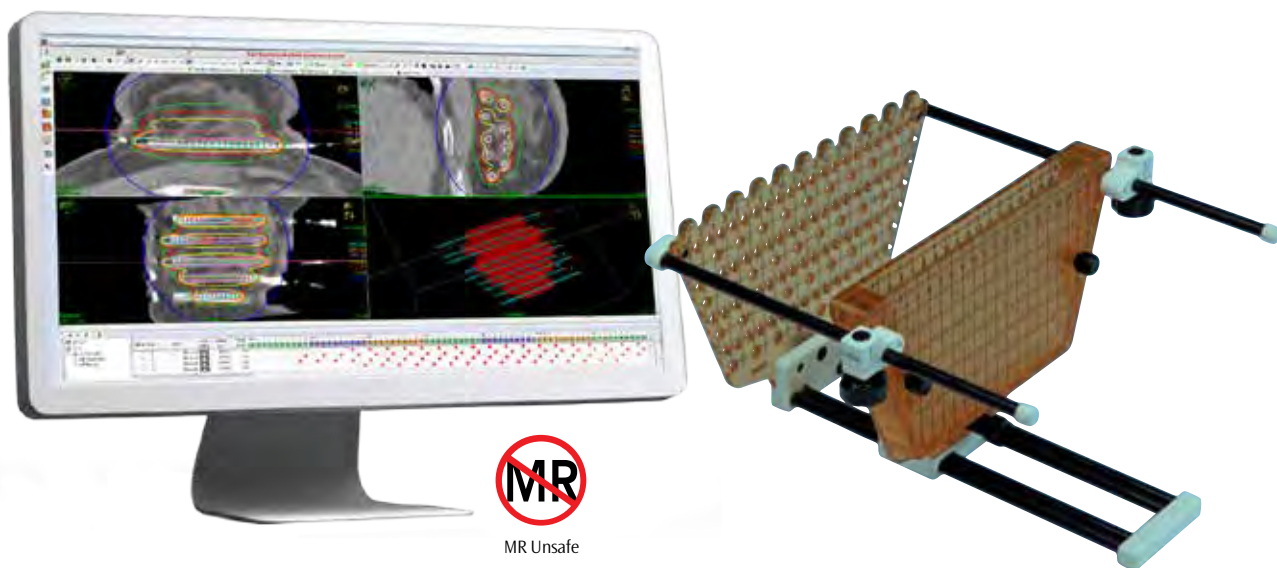
## Accessories

Part number	Set components
110.528	Double plane, 12 mm template pairs, 5 pairs: 3-4, 4-5, 5-6, 6-7 and 7-8 holes.
110.529	Double plane, 14 mm template pairs, 5 pairs: 3-4, 4-5, 5-6, 6-7 and 7-8 holes.
110.530	Double plane, 18 mm template pairs, 5 pairs: 3-4, 4-5, 5-6, 6-7 and 7-8 holes.
110.532	Triple plane, 12 mm template pairs, 4 pairs: 3-4-5, 4-5-6, 5-6-7 and 6-7-8 holes.
110.533	Triple plane, 14 mm template pairs, 4 pairs: 3-4-5, 4-5-6, 5-6-7 and 6-7-8 holes.
110.534	Triple plane, 18 mm template pairs, 4 pairs: 3-4-5, 4-5-6, 5-6-7 and 6-7-8 holes.
various* ●	ProGuide needles 5F and 6F
various*	Metal needles ø1.5 and ø1.9 mm
various* ●	OncoSmart catheter system

## Why the Breast CT/MR template set?

- Smooth needle guidance for multi-catheter implants
- Easy assembly of templates
- Lightweight design reduces patient discomfort
- CT and MR compatible

\*See "Needles and flexible implant tubes" section



## Kuske Breast Applicator Set

The Kuske breast applicator set was developed in close cooperation with Dr. Robert Kuske. The adjustable template with integrated guiding plate ensures exact placement of needles and OncoSmart catheters or flexible implant tubes. The single large template pair with special hole geometry ensures optimal coverage of the complete target volume. Markers are integrated in the template to aid the imaging procedures and provide the opportunity to optimize positioning of the template.

### Note:

- The Kuske breast template set can be sterilized using ethylene oxide
- User manual 090.706
- Sterilization Advice Chart 094.446

## Order information

### Kuske breast applicator set, part # 189.006

Quantity	Part number	Description
1	189.012	Kuske breast template set
6	189.307	Leader insertion needle, 1.5 x 200 mm (box of 36)
1	189.231	Insertion tool
6	189.445 ●	CT/MR flexible implant tube, 6F, single Leader, 30 cm (box of 36)
1	189.458 ●	Radio-lucent button white, 6F (box of 72)
1	189.460 ●	Radio-lucent button black, 6F (box of 72)
1	189.462 ●	Radio-lucent button red, 6F (box of 72)
1	189.464 ●	Radio-lucent button blue, 6F (box of 72)
1	189.466 ●	Radio-lucent button green, 6F (box of 72)
1	189.041	Cleaning brush ø 3 x 100 (set of 3)
1	189.043	Cleaning brush ø 6.5 x 100 (set of 3)
1	189.367	Cutter flexible implants

### Kuske breast template set, part # 189.012

Quantity	Part number	Description
1	189.015	Kuske breast template holder
1	189.026	Left template clamp
1	189.027	Right template clamp
1	189.046	Implant template
1	189.047	Target template
1	189.048	Guiding template
2*	189.222	Implant template fixation nut
2	189.223	Bridge fixation nut
2	189.224	Target template fixation nut
2	189.225	Slide fixation
2*	189.226	Guiding template fixation nut

\*When ordered separately, the minimum order quantity is 5 pcs.

## Accessories

Part number	Description
594.456	Emergency button cutter
189.468 ●	Radio-lucent button yellow, 6F, (box of 72)
189.470 ●	Radio-lucent button brown, 6F, (box of 72)
089.420	X-ray catheter set, 30 cm (1-18)
030.100	Push-fit disconnection tool
089.348 ●	Kink protection tube for 6F flexible*
089.345 ●	Kink protection tube for transfer tube*

\*Minimum order quantity is 50 pcs.

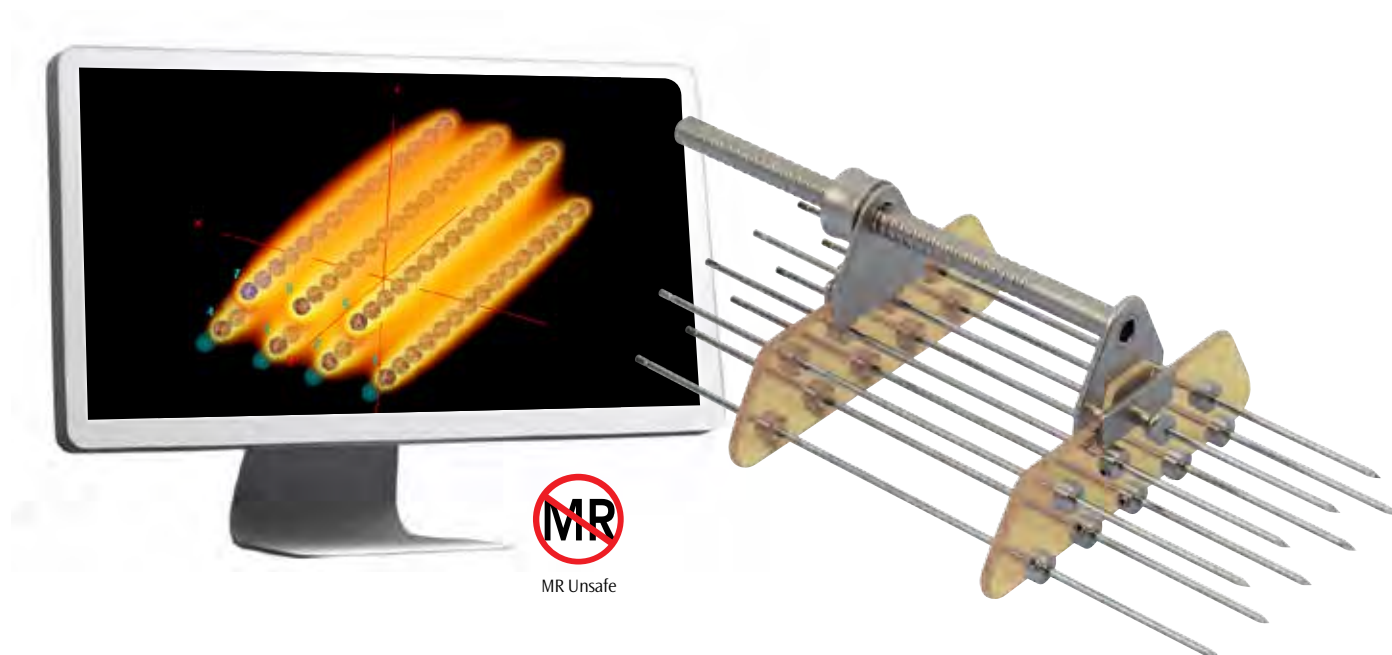
## Why the Kuske breast applicator?

- Designed for optimal fit with patient anatomy
- Optimal target coverage, including wide volumes
- Excellent dose conformity

“The applicator enables the user to create large volume breast implants. The adjustable template has an integrated guiding template which ensures an exact placement of needles and flexible implants or OncoSmart catheters. Also the single large template has a special hole-geometry. This applicator allows for excellent coverage of the target volume and an optimized conformity with the patient's anatomy.”

### R. Kuske MD

Arizona Oncology Services - Scottsdale, AZ,  
United States



## Rowland Adjustable Breast Template (RABIT)

The Rowland adjustable breast template (RABIT) holder was developed to ensure parallel positioning of the template pairs. The breast template set provides a dose distribution according to the Paris dosimetry system. It includes subset of single, double and triple plane template pairs with different basal distances. Hence all target areas can be covered with this template.

### Intended for:

Interstitial breast brachytherapy

### Note:

- The template set can be sterilized using steam sterilization
- User manual 090.637
- Sterilization Advice Chart 094.210

### Order information

Complete set, part # 045.006

Quantity	Part number	Description
1	045.033	RABIT template holder
1	045.021	Double plane, 10 mm template pairs (5)
1	045.024	Double plane, 16 mm template pairs (5)
1	045.026	Triple plane, 10 mm template pairs (3)
1	--	Single plane, 10 mm template pairs (5)
1	--	Single plane, 16 mm template pairs (5)
1	045.029	Triple plane, 16 mm template pairs (3)

### Required accessories

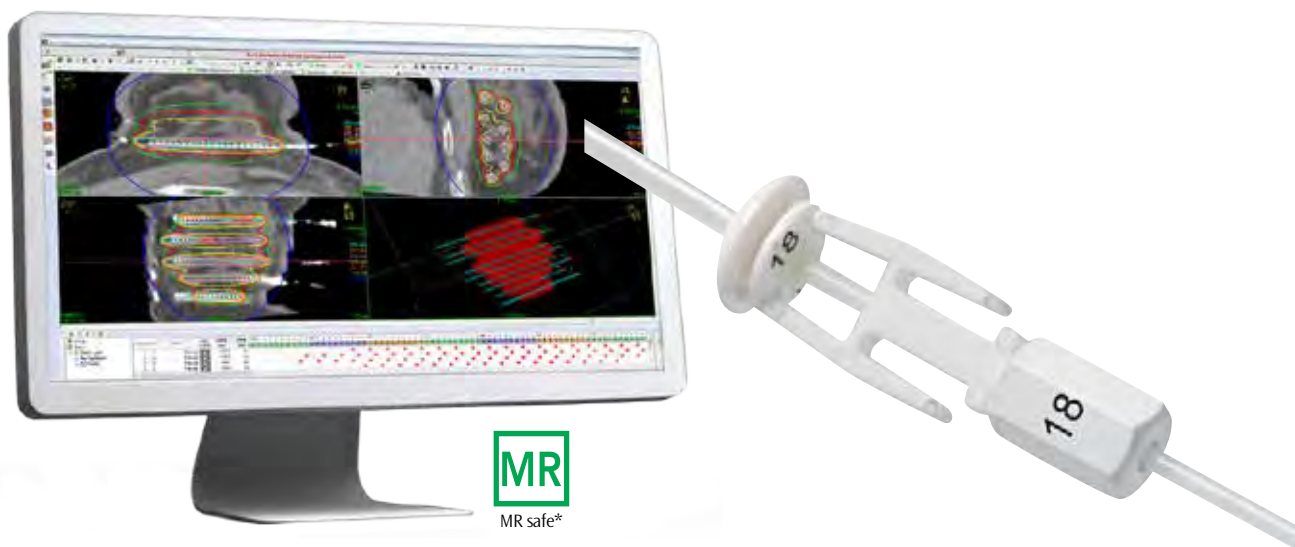
Quantity	Part number	Description
1 (Either)	083.040 or 083.900	Interstitial needle set
	189.400 or 189.401 ●	Flexible implant tube set
	189.007 or 189.410	OncoSmart catheter set

### Optional accessories

Quantity	Part number	Description
1	045.022	Double plane, 12 mm template pairs (5)
1	045.023	Double plane, 14 mm template pairs (5)
1	045.025	Double plane, 18 mm template pairs (5)
1	045.037	Double plane, 20 mm template pairs (5)
1	045.027	Triple plane, 12 mm template pairs (3)
1	045.028	Triple plane, 14 mm template pairs (3)
1	045.030	Triple plane, 18 mm template pairs (3)
1	045.036	Triple plane, 20 mm template pairs (3)

## Why the Rowland adjustable breast template?

- The adjustable template holder will assist in immobilization and needle/implant tube placement
- Different template configurations provide dose optimization to the volume of interest



## CT/MR OncoSmart Catheter System

### For outpatient breast brachytherapy

The CT/MR OncoSmart catheter system is an elegant treatment solution for breast brachytherapy. The system permits breast brachytherapy treatments on an outpatient basis, enabling the patient to resume daily life between fractions. It is ideally suited for treatment regimens such as Accelerated Partial Breast Irradiation (APBI) or the delivery of a brachytherapy boost dose as part of Whole Breast Irradiation (WBI).

In addition to breast brachytherapy, the CT/MR OncoSmart catheter system also can be used for brachytherapy in head & neck, tongue and soft tissue cases.

### Optimizing clinical workflow

The CT/MR OncoSmart catheters are delivered sterile and are ready for immediate use. The treatment catheters are inserted only once, at the start of the actual treatment, and remain in place in between fractions. Small buttons with corresponding channel numbers fix the catheters in place and are used for accurate and quick reconnection for sequential fractions. Tailored material characteristics make OncoSmart catheter sets optimally visible on either CT or MR images.

### Intended for:

- Breast
- Head & Neck
- Sarcomas
- Tongue

### Note:

- The catheter set contents are for single use only, and delivered sterile, with the exception of the 4F ProGuide
- Insertion needles and the stop tags are delivered unsterile
- Set contents are packed per 6 items, except for # 189.802
- User manual 090.709

### Order information

#### CT/MR OncoSmart catheter system

Part number	Description
189.416 ●	CT/MR OncoSmart catheter system, l =240 mm (contains 30 flexible implant tubes (5 x 6 tubes), 4F ProGuide needles (240 mm), stop tags, buttons, and insertion needles (200 mm))
189.418 ●	CT/MR OncoSmart catheter system, l =240 mm (contains 18 flexible implant tubes (3 x 6 tubes), 4F ProGuide needles (240 mm), stop tags, buttons, and insertion needles (200 mm))
189.802 ●	CT/MR OncoSmart catheter system, l =240 mm, single package (contains 6 flexible implant tubes, 4F ProGuide needles (240 mm), stop tags, buttons, and insertion needles (200 mm))
189.801 ●	CT/MR OncoSmart catheter system, l =200 mm, for Head & Neck (contains 6 flexible implant tubes, 4F ProGuide needles (200 mm), stop tags, buttons, and insertion needles (160 mm))
189.840 ●	CT/MR OncoSmart catheter system, l =294 mm (contains 30 flexible implant tubes (5 x 6 tubes), 4F ProGuide needles (294 mm), stop tags, buttons, and insertion needles (280 mm))
189.846 ●	CT/MR OncoSmart catheter system, l =294 mm (contains 30 flexible implant tubes (5 x 6 tubes), 4F ProGuide needles (294 mm), stop tags, buttons, and insertion needles (200 mm))

### CT/MR OncoSmart catheter system, part # 189.410

Quantity	Part number	Description
5	189.418 ●	CT/MR OncoSmart catheter system, l = 240 mm (contains 3 x 6 flexible implant tubes, 4F ProGuide needles (240 mm), stop tags, buttons, and insertion needles (200 mm))
1	189.016	OncoSmart flange molding system

### OncoSmart introduction system, part # 103.111

Part number	Description
189.410 ●	CT/MR OncoSmart catheter set (contains 189.418 (= sterile, single use) and 189.016 (non-sterile, re-usable))
189.012	Kuske breast template system
189.231	Insertion tool
189.036	CT-marker system, 240 mm, black
030.100	Push fit disconnection tool
	Transfer tube set for 4F flexibles (see transfer tube appendixes for Flexitron and microSelectron)

### OncoSmart flange molding system, part # 189.016

Quantity	Part number	Description
1	189.320	Flange molding tool
2	417.018	Li-ion battery Pack
1	417.006	Battery charge station
1	189.316	Flange molding cutter
1	189.367	Cutter flexible implants
1	189.369	Spare part set flange molding tool

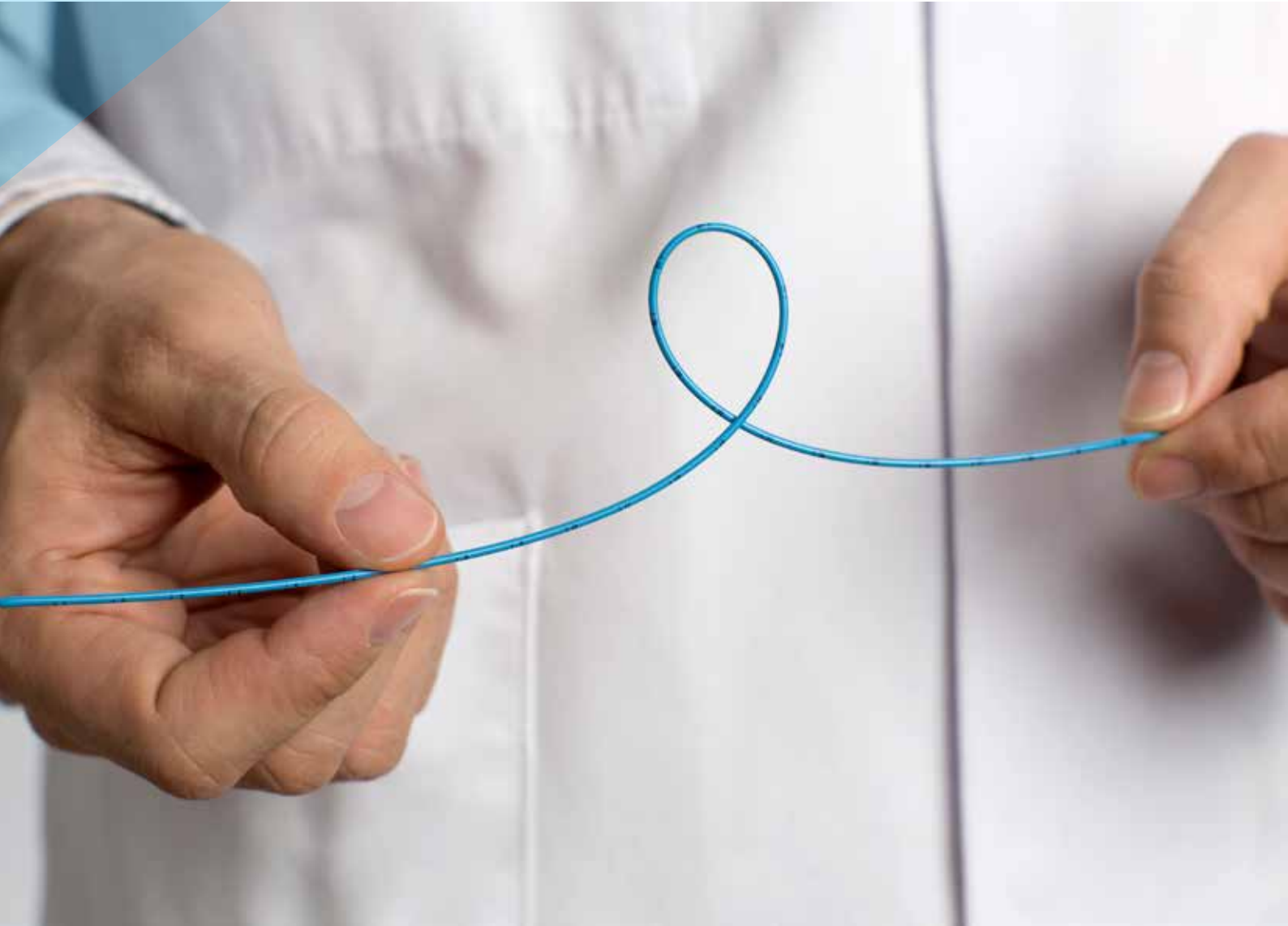
### OncoSmart Upgrade set, part #103.110

Part number	Description
189.410 ●	CT/MR OncoSmart catheter set (contains 189.418 (= sterile, single use) and 189.016 (non-sterile, re-usable))
189.036	CT-marker set 240 mm black
030.100	Push fit disconnection tool
	Transfer tube set for 4F flexibles (see transfer tube appendixes for Flexitron and microSelectron)

## Why the CT/MR OncoSmart catheter?

- A single multi-catheter implant serves multiple treatment fractions
- Allows patients to resume daily life between fractions
- Enables quick and accurate catheter reconnection for follow-up fractions

# Bronchus & Esophagus





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### **ESOPHAGUS**

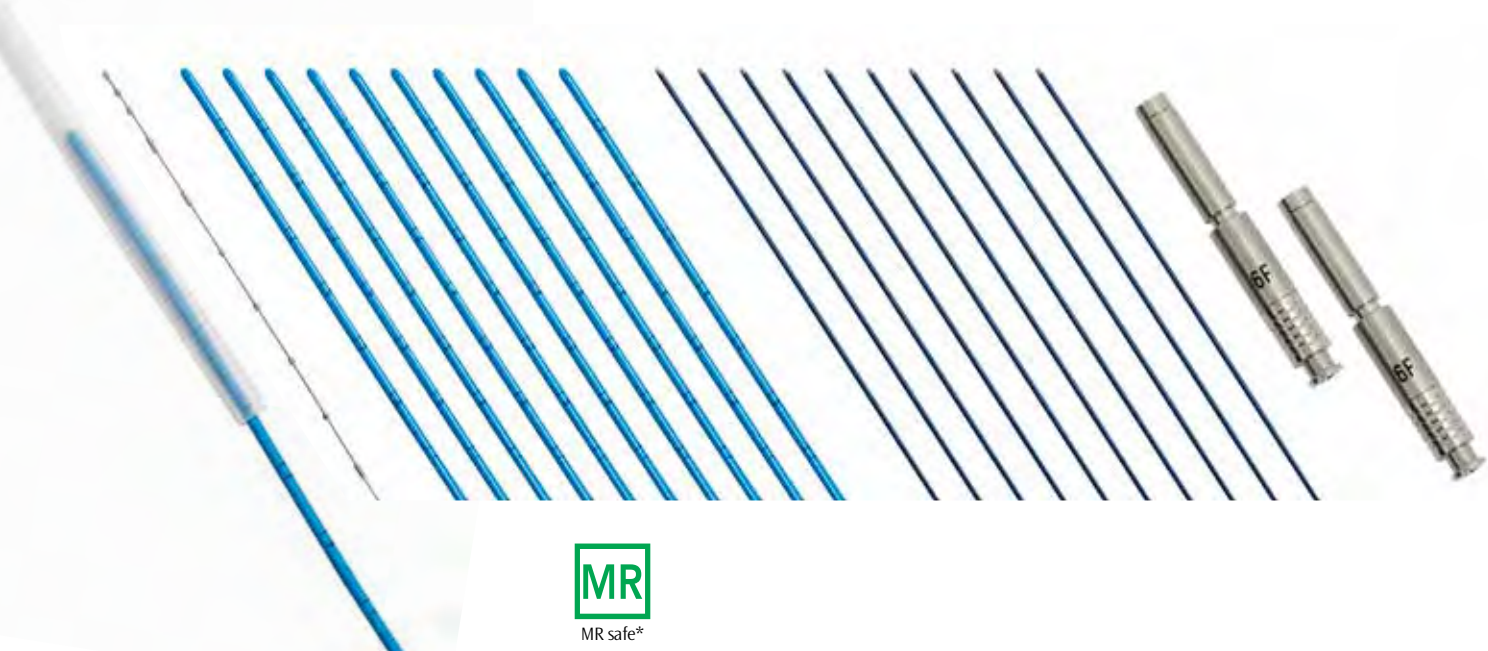
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### **ALTERNATIVE FOR ESOPHAGEAL BRACHYTHERAPY**

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## LumenCare® Azure Applicator Set

The LumenCare Azure offers clinicians an excellent solution for lung brachytherapy applications. It is specifically designed to improve the delivery of lung cancer brachytherapy treatments, expanding the treatable area.

The innovative, contrasting blue-tinted material of the applicator combines kink-resistance with flexibility. This novel design permits easy passage through tumor obstructions and improves access to the upper lobe, where many tumor obstructions are found.

### Optimal flexibility and kink-resistance

With an impressively small bending radius, LumenCare Azure catheters provide unmatched flexibility and strength to treat even the most demanding lung brachytherapy cases.

### High visibility

The contrasting blue tint of the catheter provides excellent visualization within the bronchoscope, facilitating easy insertion of the catheter.

### Easy insertion into the bronchus

The smoothness of the catheter enables easy insertion and smooth source travel into the bronchus or any other lumen, facilitating fast and simple lung brachytherapy procedures.

### Advanced solution for the most complex procedures

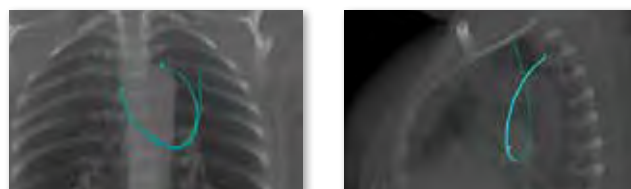
State-of-the-art material characteristics make hard-to-reach places more easily accessible. In the event that the catheter gets obstructed e.g. through coughing, guide wires are supplied with the LumenCare Azure, allowing easy completion of the procedure.

### Intended for:

- Intraluminal brachytherapy
- Treatment of the lung or other lumen, e.g. bronchus and bile duct.

### Note:

- User manual: 777.00266



Images courtesy of the UZL Gasthuisberg - Leuven, Belgium.

\* The adapter and fixing mask are not MR safe.

### Order information for Flexitron

Lumencare Azure 5F x 140 cm,  
part # 110.691

Quantity	Part number	Description
2	110.690 ●	LumenCare Azure 5F x 140 cm box (5 pcs)
1	137.673	X-ray marker channel 1- 140 cm
2	137.064	Applicator adapter 5F

### Accessories for Flexitron

Part number	Description
110.690 ●	LumenCare Azure 5F x 140 cm box (5 pcs)
084.099	Fixation mask
089.512	X-ray marker channel 2 – 150 cm
089.513	X-ray marker channel 3 – 150 cm
137.674	X-ray catheter 2, 140 cm
137.801	X-ray catheter 3, 140 cm
137.064	Applicator adapter 5F

### Order information for microSelectron

Lumencare Azure 6F x 150 cm,  
part# 110.683

Quantity	Part number	Description
2	110.682 ●	LumenCare Azure 6F x 150 cm (5 pcs)
1	089.511	X-ray marker channel 1 - 150 cm
2	080.026	Applicator adapter 6F

Lumencare Azure, 5F x 150cm,  
part# 110.687

Quantity	Part number	Description
2	110.686 ●	LumenCare Azure 5F x 150 cm (5 pcs)
1	089.511	X-ray marker channel 1 - 150 cm
2	080.024	Applicator adapter 5F

### Accessories for microSelectron

Part number	Description
110.682 ●	LumenCare Azure 6F x 150 cm (5 pcs)
110.686 ●	LumenCare Azure 5F x 150 cm (5 pcs)
084.099	Fixation mask
089.512	X-ray marker channel 2 – 150 cm
089.513	X-ray marker channel 3 – 150 cm
080.024	Applicator adapter 5F
080.026	Applicator adapter 6F

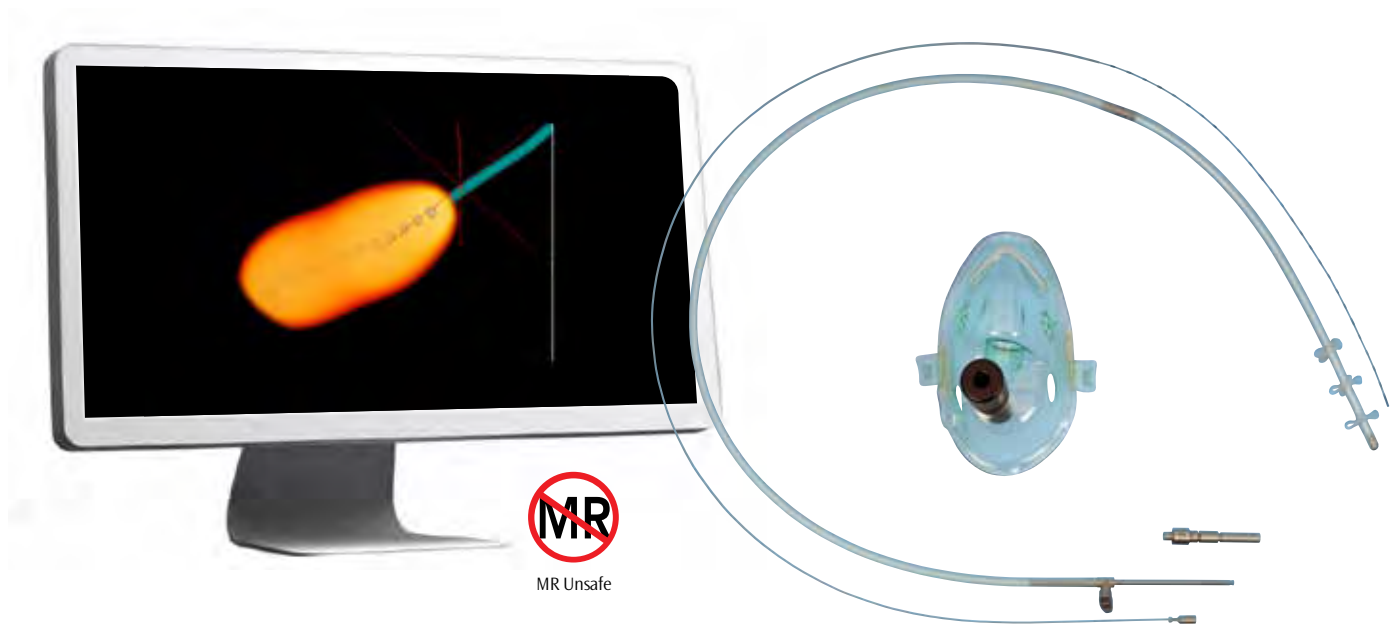
## Why the LumenCare Azure applicator?

- Highly flexible and kink-resistant material to reach challenging tumor locations
- Smoothness of catheter facilitates fast and simple lung brachytherapy procedures
- Superior visibility allows for easy insertion into bronchus

“The more flexible and kink resistant material of the LumenCare Azure makes it much easier to reach tumors in the upper lobe, an area where many of the lung tumors tend to occur.”

**Janusz Skowronek, MD, PhD. Ass. Prof.**

Head of Brachytherapy Department  
Greater Poland Cancer Centre, Poland



## Fritz Adjustable Intraluminal Applicator Set

The Fritz adjustable intraluminal applicator is designed for treatment of the esophagus, trachea or bronchus (main stem). After insertion, the outer tubing expands to center the applicator, assisting in immobilization and centering of the applicator within the lumen. The patient can therefore be treated comfortably with sufficient airflow around the applicator.

### Intended for:

- Esophagus
- Trachea
- Bronchus (Main Stem)

### Note:

- The minimum bending radius is 25 mm
- The flexible treatment tube comes sterilized for immediate clinical use
- No transfer tube is required, the applicator connects directly to the afterloader
- This applicator set can only be used on microSelectron afterloaders
- The applicator set can be sterilized using ethylene oxide
- User manual 090.636

## Order information

### Fritz adjustable intraluminal applicator 100 cm set, part # 085.009

Part number	Description
089.401	X-ray catheter no. 1, 100 cm
085.026	Indexer connector
084.410	Fixing mask set
084.158	Sterilizing caps, 3.2 mm
085.028 ●	Flexible tube, 2 incisions
085.029 ●	Flexible tube, 3 incisions
085.015	Adjustable intraluminal, 100 cm

### Fritz adjustable intraluminal applicator 150 cm set, part # 085.070

Part number	Description
089.411	X-ray catheter no. 1, 150 cm
085.026	Indexer connector
084.410	Fixing mask set
084.158	Sterilizing caps, 3.2 mm
085.028 ●	Flexible tube, 2 incisions
085.029 ●	Flexible tube, 3 incisions
085.073	Adjustable intraluminal, 150 cm

## Accessories

Part number	Description
089.401	X-ray catheter no. 1, 100 cm
089.511	X-ray catheter no. 1, 150 cm
189.004	Esophageal fixing mask set
085.026	Applicator adapter

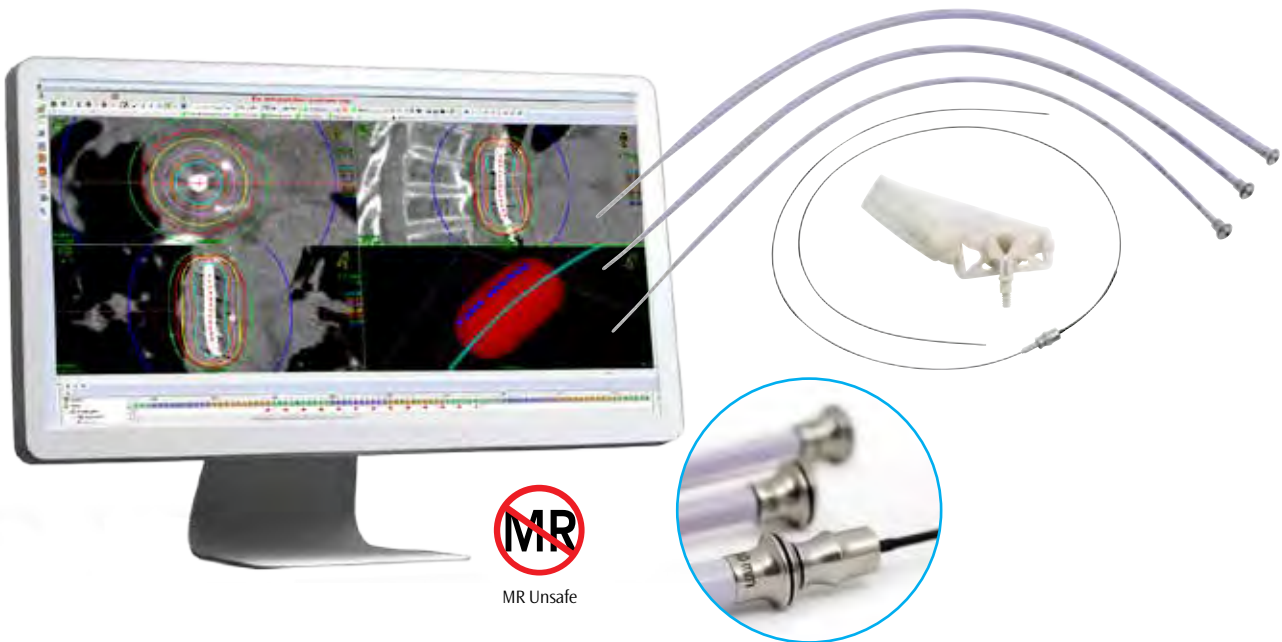
## Why the Fritz adjustable intraluminal applicator?

- Expandable outer tube for immobilization and centering within the lumen
- Allows sufficient airflow around the applicator for patient comfort

“The Fritz adjustable intraluminal applicator was developed because it was necessary to center the applicator within the main stem bronchus to avoid a high mucosal dose.”

**Prof. Dr. Fritz**

*Marienkrankenhaus, Siegen  
Germany*



## Bonvoisin-Gérard Esophageal Applicator Set

The Bonvoisin-Gérard Esophageal applicator is designed to assist in the treatment of an endoscopically obstructed esophagus. By using this special dilation applicator with tapered flexible tip the treatment area can be reached by bouginage. The bougie tube will also assist in centering the treatment catheter internally to minimize the mucosal dose, while ensuring optimal depth dose penetration of the esophageal wall. Radiographic markers on the bougie tube aid in fluoroscopic placement and localization of the applicator.

### Intended for:

Esophagus

### Note:

- No transfer tube is required  
The applicator set connects directly to the afterloader
- Separate applicator sets are available for Flexitron and microSelectron afterloaders
- Flexitron needs an applicator adapter, see accessories
- User manual 090.628 for #085.035
- 094.353 Sterilization Advice Chart for #085.035
- User manual 777.00116 for #137.258

## Order information for Flexitron

Bonvoisin-Gérard esophageal applicator set,  
part # 137.258

Part number	Description
137.259	1400 mm flexible treatment catheter
137.261	Bonvoisin Gerard esophageal appl., 18F (Ø 6 mm)
137.263	Bonvoisin Gerard esophageal appl., 24F (Ø 8 mm)
137.265	Bonvoisin Gerard esophageal appl., 30F (Ø 10 mm)
137.276	Applicator fixation mask
137.277	Applicator cleaning accessories
137.279	Applicator mask strap (pack of 5)

## Accessories for Flexitron set

Part number	Description
137.267	Applicator 36F (Ø 12 mm)
137.270	Applicator 45F (Ø 15 mm)
137.278 ●	Guide wire pack of 5 pcs (sterile) 2.6 m
137.064**	Adaptor for 5F catheters
137.673	X-ray marker # 1, 140cm

## Order information for microSelectron

Bonvoisin-Gérard esophageal applicator set,  
part # 137.xxx (will be available soon)

Part number	Description
137.xxx (will be available soon)	Treatment tube
137.261	Bonvoisin Gerard esophageal appl., 18F (Ø 6 mm)
137.263	Bonvoisin Gerard esophageal appl., 24F (Ø 8 mm)
137.265	Bonvoisin Gerard esophageal appl., 30F (Ø 10 mm)
137.276	Applicator fixation mask
137.277	Applicator cleaning accessories
137.279	Applicator mask strap (pack of 5)

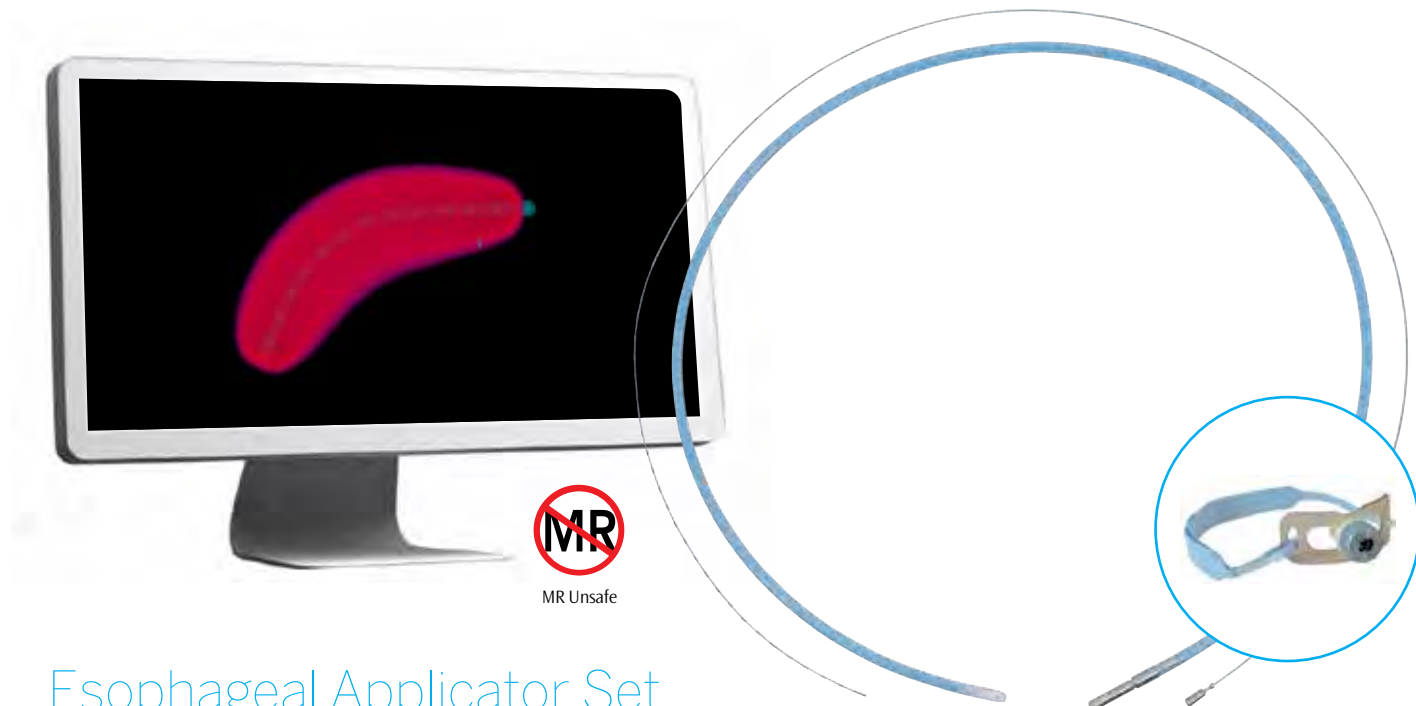
## Accessories for microSelectron set

Part number	Description
137.xxx (will be available soon)	Bougie tube, d = 10 mm
137.xxx (will be available soon)	Bougie tube, d = 15 mm

\*\*Required for use with Flexitron.

## Why the Bonvoisin-Gérard esophageal applicator?

- Easy applicator insertion using endoscopy
- Excellent source centering
- Radio-opaque applicator marking assists placement and localization



## Esophageal Applicator Set

The Esophageal applicator is designed for direct insertion into the esophagus. The applicator can be positioned orally under fluoroscopy or endoscopic examination. It is provided with an additional outer layer to reduce the dose to the esophageal mucosa and support applicator integrity.

### Note:

- The minimum curvature is 25 mm
- No transfer tube is required. The applicator connects directly to the indexer
- This applicator set can only be used on microSelectron afterloaders
- The applicator can be sterilized using ethylene oxide
- User manual 090.607
- Sterilization advice chart 094.356



### Order information

Esophageal applicator 8 mm, 100 cm set,  
part # 085.005

Quantity	Part number	Description
2	085.006	Esophageal applicator, d =8 mm, 100 cm
1	189.004	Esophageal fixing mask set
1	089.401	X-Ray catheter # 1, 100 cm
1	084.170	Sterilizing caps, 6 mm, 50 pcs

Esophageal applicator 6 mm, 100 cm set,  
part # 084.011

Quantity	Part number	Description
2	084.012	Esophageal applicator, d =6 mm, 100 cm
1	189.004	Esophageal fixing mask set
1	089.401	X-ray catheter # 1, 100 cm
1	084.170	Sterilizing caps, 6 mm, 50 pcs

Esophageal applicator 6 mm, 150 cm set,  
part # 085.055

Quantity	Part number	Description
2	085.056	Esophageal applicator, d =6 mm, 150 cm
1	189.004	Esophageal fixing mask set
1	089.511	X-ray catheter # 1, 150 cm
1	084.170	Sterilizing caps, 6 mm, 50 pcs

### Accessories

Part number	Description
085.007	Esophageal applicator, d =8 mm, 150 cm (for part # 085.055)
085.006	Esophageal applicator, d =8 mm, 100 cm (for part # 084.011)
084.012	Esophageal applicator, d =6 mm, 100 cm (for part # 085.005)
189.004	Esophageal fixing mask set

## Why the Esophageal applicator?

- Specific outer applicator surface reduces dose to mucosa
- Easy applicator insertion using fluoroscopy

# Head & Neck



## Content

### **NASOPHARYNX**

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### **TONGUE**

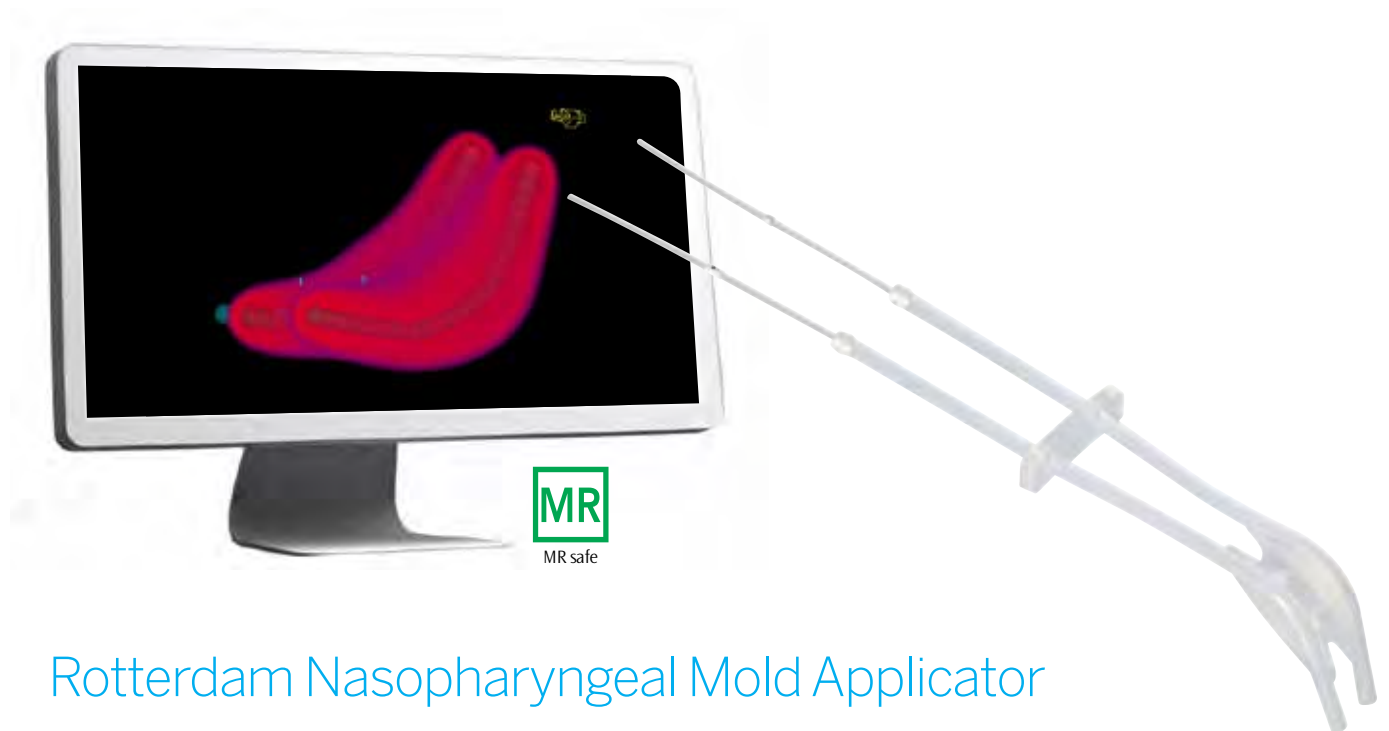
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### **ALTERNATIVE FOR TONGUE BRACHYTHERAPY**

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## Rotterdam Nasopharyngeal Mold Applicator

### Optimal dose shaping in nasopharyngeal cavities

The Rotterdam nasopharyngeal mold is manufactured from a flexible silicone material to easily shape the radiation dose in the nasopharyngeal cavity. It consists of two channels on the upper surface to optimize the dose distribution and reduce the surface dose. The mold can remain in place for a series of treatment fractions, while the treatment catheters will be replaced per fraction. Patient discomfort between fractions is thus minimized.

### Note:

- The mold applicator and catheter set are delivered unsterile and are for single use only.
- User manual 090.678

## Order information

Rotterdam nasopharyngeal mold complete set,  
part # 089.068

Quantity	Part number	Description
5	089.062 ●	Nasopharyngeal mold applicator
5	089.061 ●	Nasopharyngeal catheter set
1	089.421	X-ray catheter no. 1; 30 cm
1	089.422	X-ray catheter no. 2; 30 cm
1	594.588*	K-Y lubricating gel; tube 82 gr

## Why the Rotterdam nasopharyngeal mold applicator?

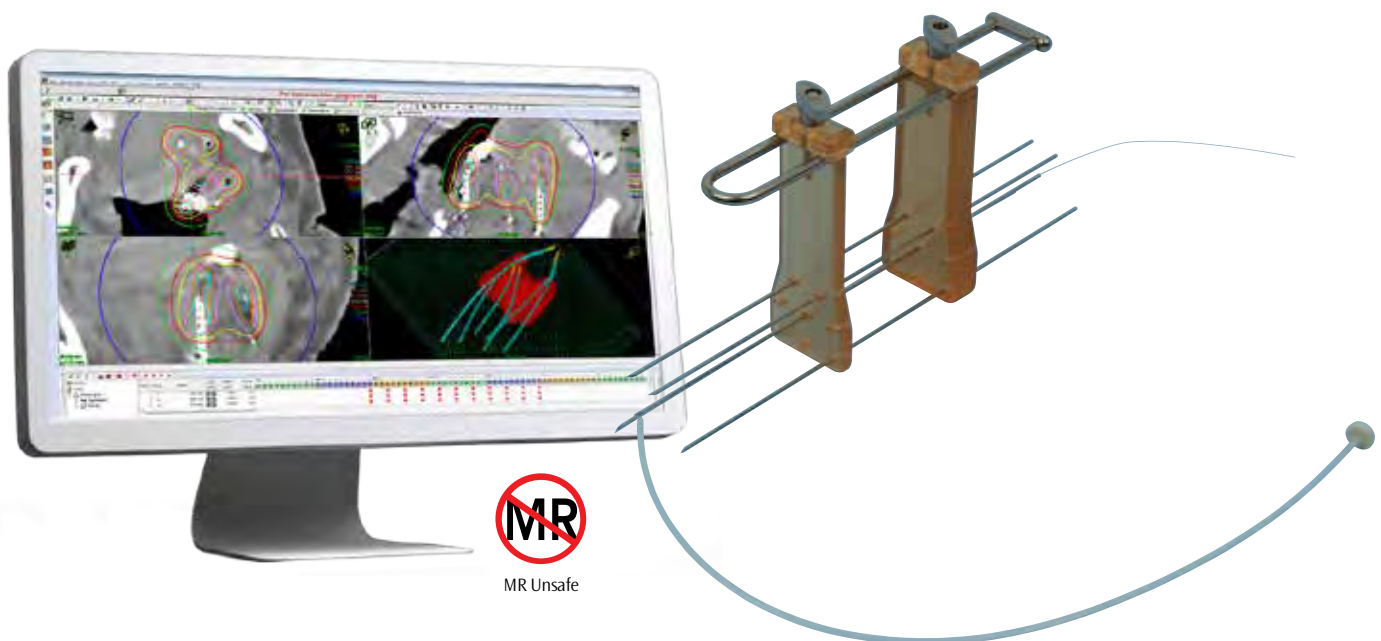
- Easily conforms to a range of nasopharyngeal cavity sizes
- Dual channel design for optimized dose distribution
- Quick catheter reinsertion for follow-up fractions

“I wanted an applicator that was easy to use, did not require a general anesthetic and that would closely conform to the mucosa of the nasopharynx. I found it in the Rotterdam nasopharyngeal applicator.”

**Prof. Dr. P. Levendag**

*Daniel den Hoed Clinic,  
Rotterdam the Netherlands*

\*When ordered separately the minimum order quantity is 10 pcs.



## Pipard Tongue Template Set

The Pipard tongue template set is designed for accurate placement of needles and flexible implant tubes in the base of the tongue. A variety of template configurations provides the option of dose optimization to the area of interest, while a reproducible dosimetry can be achieved. The template set can be used for the looping implantation technique by using double leader flexible implant tubes.

### Note:

- The applicator can be sterilized using steam sterilization or ethylene oxide
- User manual 090.641

## Order information

Pipard tongue template complete set, part # 045.410

Quantity	Part number	Description
1	045.435	Adjustable tongue template holder
1	045.432	Tongue template, 8 holes, 1.5 mm
1	045.433	Tongue template, 10 holes, 1.5 mm
10	089.700	Leader insertion needle, 1.5 x 120 mm (1 piece)

## Accessories

Part number	Description
089.701	Leader insertion needle, 1.5 x 160 mm (1 piece)
089.702	Leader insertion needle, 1.5 x 200 mm (6 pcs)
various* ●	Flexible implant tubes
various* ●	OncoSmart catheter system

## Why the Pipard tongue template?

- Reproducible dosimetry
- Guidance during needle/implant tube placement
- Immobilization during treatment

\*See relevant pages in this guide.

# Skin & Surface





## Content

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### **FLEXIBLE APPLICATOR**

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## Valencia Skin Applicator Set

### Optimal dose coverage to the skin

Brachytherapy offers an excellent non-invasive solution to complement or replace surgery for skin cancer. With our specialized solutions, in a few fractions, a high radiation dose can be delivered to the tumor with a low dose to the surrounding area, providing a short and effective treatment.

### Controlled dosimetry for skin and surface treatments

The Valencia skin applicator is a tungsten-shielded applicator for contact treatments. The applicator's unique fixed flattening filter provides a flat and homogeneous isodose pattern. The flat dose can be applied very precisely to skin and surface targets. This unique applicator was designed in cooperation with the La Fe University Hospital in Valencia, Spain.

### Reliable treatment

The Valencia skin applicator also contains a source stopper to secure a distal reference point for the source in the applicator, resulting in a reliable and reproducible treatment. Plastic caps on the applicator help to avoid over-dosage and assist with correct applicator positioning. Reinforced shielding at the back of the applicator adds to patient safety during treatment.

### Intended for:

- Skin and surface treatments

### Note:

- Applicator provided with two types of treatment caps: 1) cap with marker and 2) cap for treatment. The cap with the marker ring is used to determine the correct position of the applicator on the surface
- Applicator must be used with treatment cap in place
- The applicator set can be sterilized using steam sterilization
- Dose distribution charts are available for Iridium-192, not for Cobalt-60. The charts are not included in Oncentra Brachy treatment planning system.
- Manual 777.00237

## Order information for Flexitron

### Valencia Ft skin applicator set, part # 110.820

Quantity	Part number	Description
1	110.821	Valencia Ft skin applicator, d = 20 mm
1	110.822	Valencia Ft skin applicator, d = 30mm
2	085.115	Cap with marker ring, d = 20 mm
2	085.116	Cap with marker ring, d = 30 mm
2	085.118	Cap, d = 20 mm
2	085.119	Cap, d = 30 mm
1	084.158	Sterilization caps (pack of 50)

### Advanced skin applicator set for Flexitron, part # 103.118FT

The advanced skin applicator set for Flexitron is identical to the microSelectron version, with one difference: the Flexitron set includes part number 110.820 "Valencia Flexitron skin applicator set" instead of part number 189.701 "Valencia applicator set"

## Order information for microSelectron

### Valencia skin applicator set, part # 189.701

Quantity	Part number	Description
1	189.788	Valencia skin applicator, d = 20 mm
1	189.760	Valencia skin applicator, d = 30 mm
2	085.115	Cap with marker ring, d = 20 mm
2	085.116	Cap with marker ring, d = 30 mm
2	085.118	Cap, d = 20 mm
2	085.119	Cap, d = 30 mm
1	084.158	Sterilization caps (pack of 50)

### Advanced Skin applicator set, part # 103.118

Part number	Description
085.041	Leipzig applicator d = 10 mm
085.042	Leipzig applicator d = 20 mm
085.043	Leipzig applicator d = 30 mm
085.114	Cap, d = 10 mm with marking ring
085.115	Cap, d = 20 mm with marking ring
085.116	Cap, d = 30 mm with marking ring
085.117	Cap, d = 10 mm
085.118	Cap, d = 20 mm
085.119	Cap, d = 30 mm
089.095	Freiburg Flap applicator set
189.701	Valencia applicator set

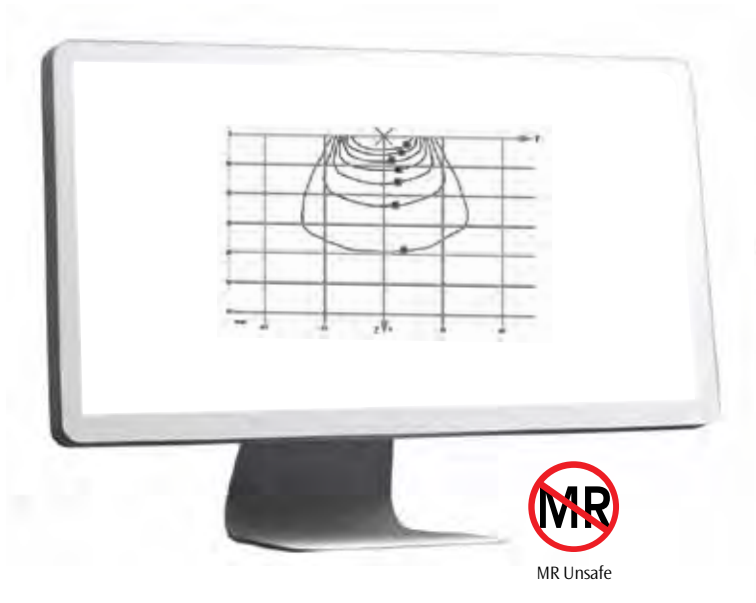
## Accessories

Part number	Description
189.786*	Well chamber adapter for HDR 1000 PLUS (Standard Imaging, Middleton, Wisconsin)
189.787*	Well chamber adapter for TM33005 (PTW, Freiburg Germany)
189.932	CT/MR applicator clamp with base plate
189.931	CT/MR applicator clamp with axle

\*Required for use

## Why the Valencia skin applicator?

- Non-invasive contact treatment option
- Unique flattening filter for homogeneous and controlled dose coverage



## Leipzig Applicator Set

This applicator is tungsten shielded and designed for treatment of surface lesions, utilizing a contact treatment technique. It can be used for superficial skin, intra-oral and vaginal cuff lesions. It provides an excellent alternative for orthovoltage or electron treatments.

### Intended for:

Skin & Surface

### Note:

- Applicator provided with caps for imaging and for treatment
- Applicator must be used with treatment cap in place
- This applicator is also available as part of the Advanced Skin package # 103.118
- The applicator set can be sterilized using steam sterilization
- User manual 777.00237
- Dose distribution charts are available for Iridium-192, not for Cobalt-60. The charts are not included in Oncentra Brachy treatment planning system.

## Order information

### Leipzig applicator set, part # 085.040

Part number	Description
085.041	Leipzig applicator, d = 10 mm
085.044	Leipzig applicator d = 10 mm, straight
085.114	Cap, d = 10 mm with marker ring
085.117	Cap, d = 10 mm
085.042	Leipzig applicator, d = 20 mm
085.045	Leipzig applicator d = 20 mm, straight
085.115	Cap, d = 20 mm with marker ring
085.118	Cap, d = 20 mm
085.043	Leipzig applicator, d = 30 mm
085.046	Leipzig applicator d = 30 mm, straight
085.116	Cap, d = 30 mm with marker ring
085.119	Cap, d = 30 mm
084.158	Sterilizing caps, 3.2 mm

### Advanced skin applicator set for Flexitron, part # 103.118FT

The advanced skin applicator set for Flexitron is identical to the microSelectron version, with one difference: the Flexitron set includes part number 110.820 "Valencia Flexitron skin applicator set" instead of part number 189.701 "Valencia applicator set"

### Advanced skin applicator set for microSelectron, part # 103.118

Part number	Description
085.041	Leipzig applicator d = 10 mm
085.042	Leipzig applicator d = 20 mm
085.043	Leipzig applicator d = 30 mm
085.114	Cap, d = 10 mm with marking ring
085.115	Cap, d = 20 mm with marking ring
085.116	Cap, d = 30 mm with marking ring
085.117	Cap, d = 10 mm
085.118	Cap, d = 20 mm
085.119	Cap, d = 30 mm

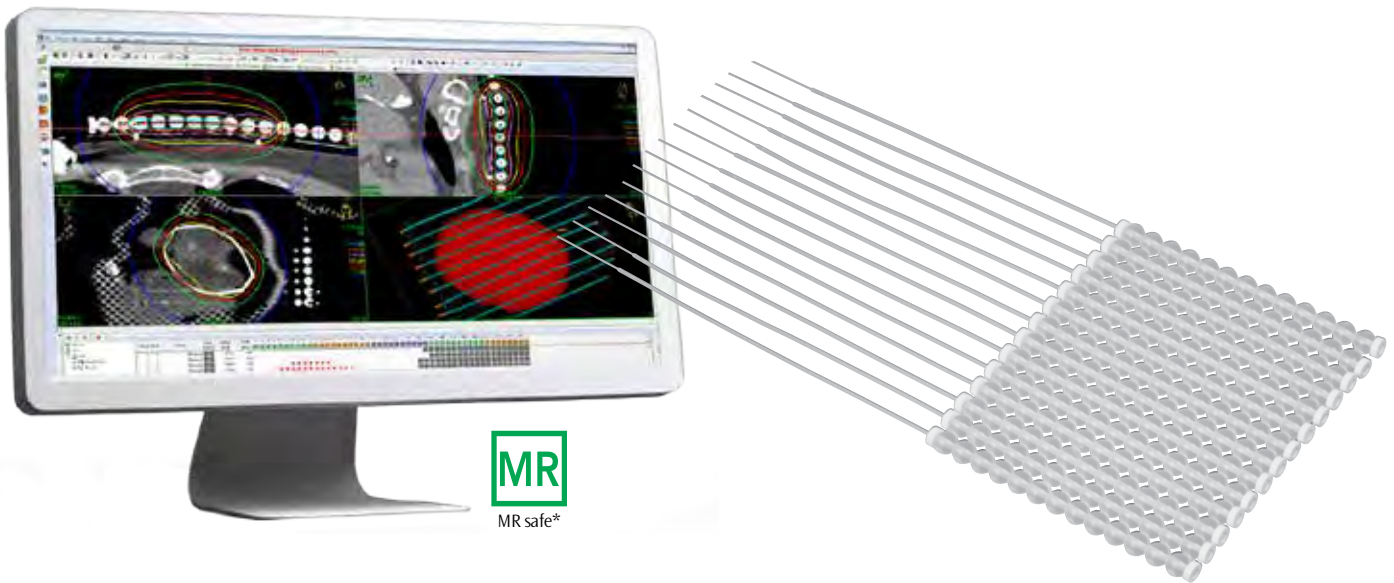
## Why the Leipzig applicator?

- Easy to use
- Excellent solution for superficial lesions

"The Leipzig applicators were designed to give the optimum isodose and treat to the correct depth without causing excessive skin reaction."

### Prof. Dr. Prager

Universität Leipzig,  
LeipzigGermany



## Freiburg Flap Applicator Set

### Shaping surface brachytherapy

The Freiburg Flap is a flexible mesh style surface mold for skin or intra-operative surface treatments. The flexible applicator can easily be shaped to fit curved surfaces. It is ideally suited for large lesions or surface lesions that are difficult to cover, such as on the skull or face.

### Easily shaped to the target area

The Freiburg Flap consists of multiple spheres attached to each other that hold and guide up to 36 treatment catheters. The applicator can be curved to match the target surface and shaped to match the right size. The Freiburg Flap also ensures a constant distance of 5mm from the treatment catheter to the surface.

### Intended for:

- Skin & Surface
- Intra-operative

### Note:

- Applicable for up to 28 days' implantation
- Treatment channels are set 10 mm apart from each other, and have a length of 240 mm
- The flexible implant tubes and buttons are delivered sterile and are for single-use only
- User manual 090.677

*\* Please note that the obturators are not MR safe*

## Order information

### Freiburg Flap applicator set, part # 089.095

Part number	Description
592.976	Freiburg Flap
189.445 ●	CT/MR flexible implant tube 6F, single leader, 30 cm (6 pouches of 6 pcs)
189.367	Cutter, flexible implant tubes
189.458 ●	Radio-lucent button, white (72 pcs)

### Advanced skin applicator set for Flexitron, part # 103.118FT

The advanced skin applicator set for Flexitron is identical to the microSelectron version, with one difference: the Flexitron set includes part number 110.820 "Valencia Flexitron skin applicator set" instead of part number 189.701 "Valencia applicator set"

### Advanced skin applicator set for microSelectron, part # 103.118

Part number	Description
085.041	Leipzig applicator d = 10 mm
085.042	Leipzig applicator d = 20 mm
085.043	Leipzig applicator d = 30 mm
085.114	Cap, d = 10 mm with marking ring
085.115	Cap, d = 20 mm with marking ring
085.116	Cap, d = 30 mm with marking ring
085.117	Cap, d = 10 mm
085.118	Cap, d = 20 mm
085.119	Cap, d = 30 mm

## Why the Freiburg Flap applicator?

- Adaptable for large and curved anatomies
- Easy to resize to match treatment area
- Consistent thickness for reproducible dosimetry

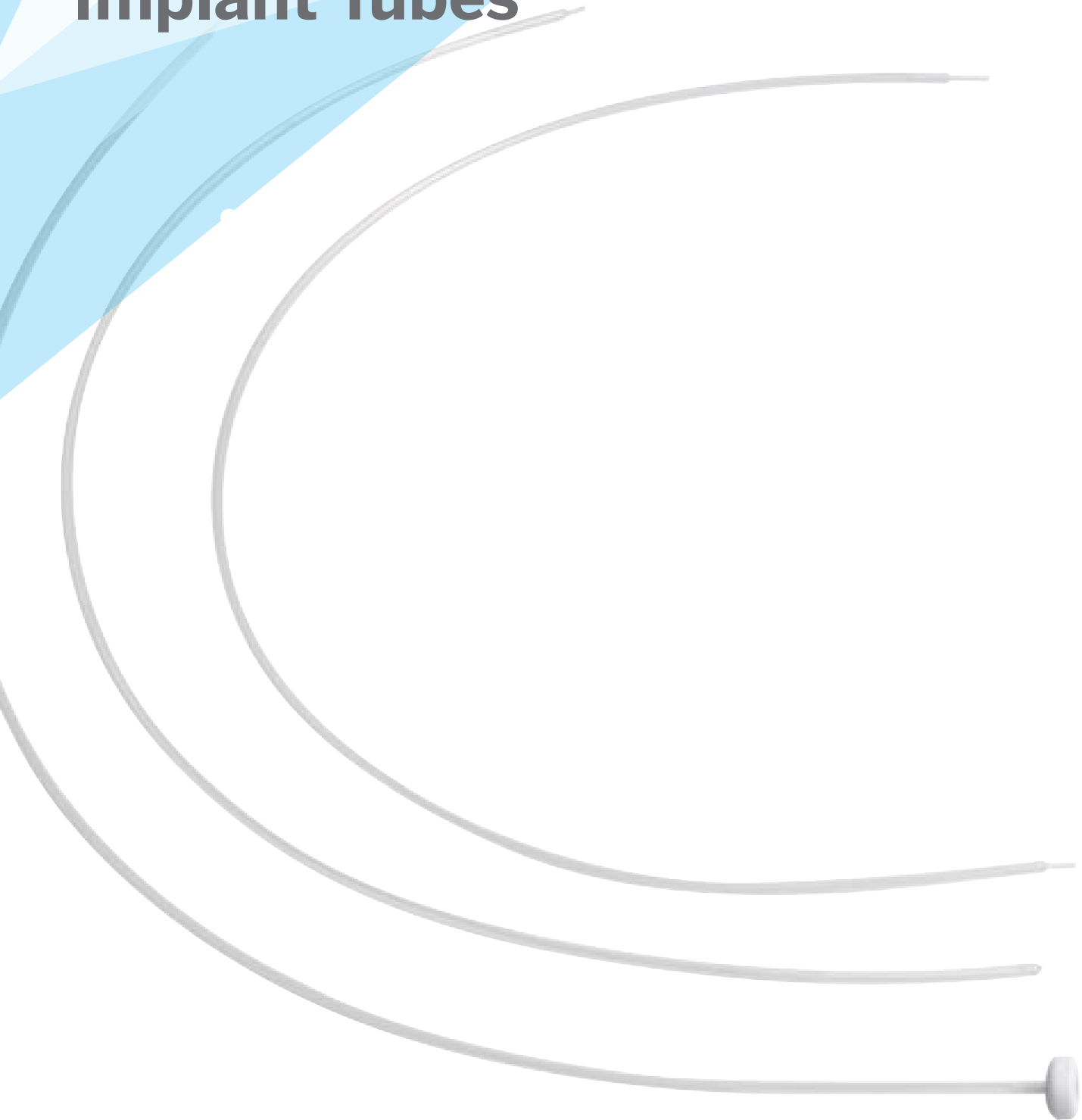
"The equidistance of the holes guarantees a precise separation of the catheters. The Freiburg Flap material allows a precise positioning in respect of the target and verification of the treatment area."

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### Dr. S. Stange

Albert Ludwigs Universität,  
Freiburg, Germany

# Needles & Flexible Implant Tubes





## Content

### **PROGUIDE NEEDLES, OBTURATORS AND MARKERS**

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### **STAINLESS STEEL INTERSTITIAL NEEDLES**

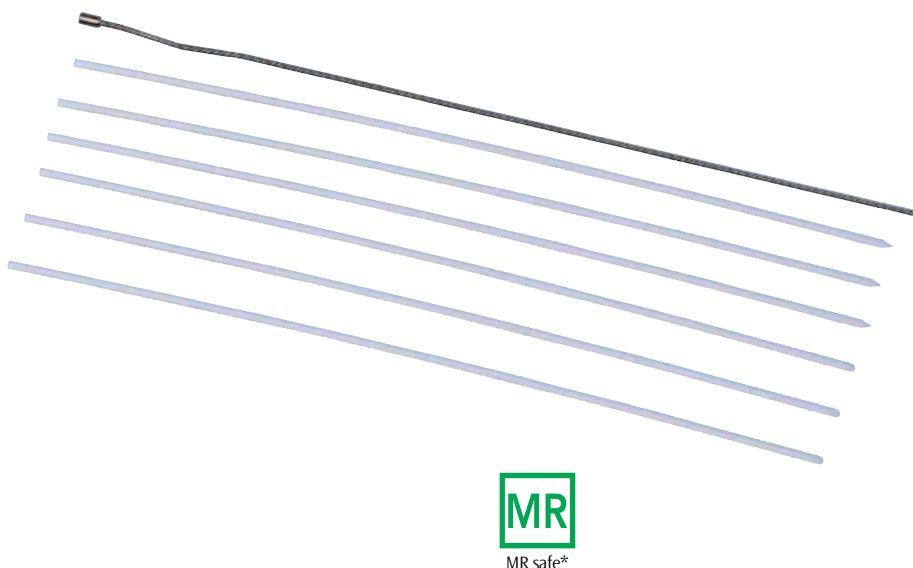
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### **FLEXIBLE IMPLANT TUBES**

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## ProGuide Needles, Obturators and Markers

The range of OncoSmart ProGuide needles has been designed for interstitial applications and are compatible with state-of-the-art imaging modalities, for instance CT and MR imaging. They are made from a high quality plastic and are specifically developed for use with Elekta afterloaders. ProGuide needles are available with either a sharp tip to enable easy penetration of the skin surface, or with a round tip for maximum patient safety during treatment. Rigidity of the plastic ProGuide needle is created by placing an obturator inside the needle during insertion.

The obturator is a rigid tungsten alloy tool to maintain the needle stability during insertion. The obturator prevents kinking or breaking of the needles during insertion. The curve in the obturator is intentional and prevents the obturator from shifting within the needle during insertion.

The OncoSmart ProGuide CT Markers (see appendixes) are designed to indicate the first source positions on CT images of ProGuide interstitial needle implants. The markers fit needle diameters from 5F to 6F and are kept in place during imaging by means of a built-in locking mechanism. The markers are reusable and can be autoclaved. Each marker length has a unique color-coded knob.

### Note:

- ProGuide needles are delivered sterile, and are for single use only
- Obturators must be placed in the ProGuide needle prior to insertion for stability and to avoid needle damage
- Obturators are not delivered sterile and can be processed using steam sterilization or ethylene oxide
- Kink protection tubes are available for use with ProGuide needles
- User manual 090.695

### Order information

#### ProGuide needle sets, 5F, sharp

Part number	Description
189.604 ●	ProGuide needle set, 5F, sharp, l =240 mm, 18 needles (set contains 3 pouches of 6 needles each, and 6 obturators)
189.619 ●	ProGuide needle bulk set, 5F, sharp, l =240 mm, 55 needles (set contains 8 pouches of 6 needles each, and 7 pouches with single-packed needles)

\*The obturators are not MR safe.

## ProGuide needle sets, 6F, sharp

Part number	Description
189.602 ●	ProGuide needle set, 6F, sharp, l =200 mm, 18 needles (set contains 3 pouches of 6 needles each, and 6 obturators)
189.601 ●	ProGuide needle set, 6F, sharp, l =240 mm, 18 needles (set contains 3 pouches of 6 needles each, and 6 obturators)
110.231 ●	ProGuide needle set, 6F, sharp, l =294 mm, 5 needles (set contains 5 pouches with single-packed needles. To be used with obturators with part number 110.268, not included)
189.617 ●	ProGuide needle bulk set, 6F, sharp, l =200 mm, 55 needles (set contains 8 pouches of 6 needles each, and 7 pouches with single-packed needles)
189.616 ●	ProGuide needle bulk set, 6F, sharp, l =240 mm, 55 needles (set contains 8 pouches of 6 needles each, and 7 pouches with single-packed needles)

## ProGuide needle sets, 6F, round

Part number	Description
189.608 ●	ProGuide needle set, 6F, round, l =200 mm, 18 needles (set contains 3 pouches of 6 needles each, and 6 obturators)
189.607 ●	ProGuide needle set, 6F, round, l =240 mm, 18 needles (set contains 3 pouches of 6 needles each, and 6 obturators)
110.230 ●	ProGuide needle set, 6F, round, l =294 mm, 5 needles (set contains 5 pouches with single-packed needles. To be used with obturators with part number 110.268, not included)
189.623 ●	ProGuide needle bulk set, 6F, round, l =200 mm, 55 needles (set contains 8 pouches of 6 needles each, and 7 pouches with single-packed needles)
189.622 ●	ProGuide needle bulk set, 6F, round, l =240 mm, 55 needles (set contains 8 pouches of 6 needles each, and 7 pouches with single-packed needles)

## ProGuide needle sets without obturators

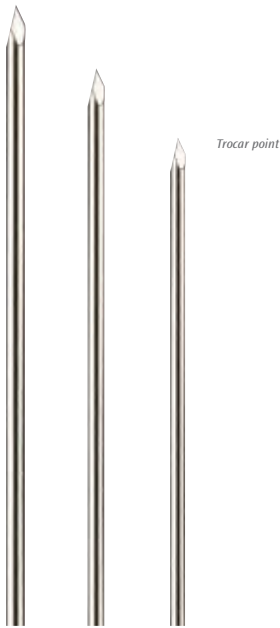
Part number	Description
110.580 ●	ProGuide sharp needle set, 6F x 240 mm (3x6)
110.581 ●	ProGuide sharp needle set, 6F x 240 mm (6x6)
110.582 ●	ProGuide sharp needle set, 6F x 240 mm (12x6)
110.583 ●	ProGuide sharp needle set, 6F x 240 mm (10x1)
110.584 ●	ProGuide sharp needle set, 6F x 200 mm (3x6)
110.585 ●	ProGuide sharp needle set, 6F x 200 mm (6x6)
110.586 ●	ProGuide sharp needle set, 6F x 200 mm (12x6)
110.587 ●	ProGuide sharp needle set, 6F x 200 mm (10x1)
110.588 ●	ProGuide sharp needle set, 5F x 240 mm (3x6)
110.589 ●	ProGuide sharp needle set, 5F x 240 mm (6x6)
110.590 ●	ProGuide sharp needle set, 5F x 240 mm (12x6)
110.591 ●	ProGuide sharp needle set, 5F x 240 mm (10x1)

## Why ProGuide needles & markers?

- Flexibility in use
- Compatible with state-of-the-art imaging modalities

## Obturators

Part number	Description
189.628	ProGuide obturator bulk set, 6F x 240 mm (12 pcs)
189.629	ProGuide obturator bulk set, 6F x 200 mm (12 pcs)
189.631	ProGuide obturator bulk set, 5F x 240 mm (12 pcs)
110.268	Obturators 6F x 294 mm (5 pcs)
089.636	Handle for insertion obturator
110.163	Obturator for 1.3 mm needle x 120 mm
110.167	Obturator for 1.3 mm needle x 160 mm
110.171	Obturator for 1.3 mm needle x 200 mm
089.001	Obturator for 1.5 mm needle x 80 mm
089.003	Obturator for 1.5 mm needle x 100 mm
089.005	Obturator for 1.5 mm needle x 120 mm
089.007	Obturator for 1.5 mm needle x 140 mm
089.009	Obturator for 1.5 mm needle x 160 mm
089.011	Obturator for 1.5 mm needle x 180 mm
089.013	Obturator for 1.5 mm needle x 200 mm
083.250	Obturator for 1.9 mm needle x 80 mm
083.252	Obturator for 1.9 mm needle x 100 mm
083.254	Obturator for 1.9 mm needle x 120 mm
083.256	Obturator for 1.9 mm needle x 140 mm
083.258	Obturator for 1.9 mm needle x 160 mm
083.260	Obturator for 1.9 mm needle x 180 mm
083.262	Obturator for 1.9 mm needle x 200 mm
083.266	Obturator For 1.9 mm needle x 240 mm
083.272	Insertion obturator for 1.9 mm needle x 294 mm



## Titanium Interstitial Needles

Interstitial needles are used for treatment of carcinoma where no lumen or cavity is available, or where additional and very precise target area coverage is required. The needles are designed for optimal needle rigidity and sharpness throughout multiple interstitial treatments, in combination with the appropriate templates. Titanium needles have a needle tip that is either round or trocar shaped. The round tip is designed to minimize tissue damage and optimize ease in implantation. The trocar tip facilitates insertion in the tissue.

The titanium interstitial needles are specifically designed for use with CT and MR-based imaging for volume and target delineation, designed to minimize artifacts on the acquired image sets. Obturators can be placed inside the needle during insertion to create additional rigidity. The needles are directly connected to the transfer tube of the afterloader.

### Note:

- Needles are described by their outside diameter and length
- Needles should be inspected prior to use. Any needle that is blunt, corroded or bent should not be used
- Metal needles can be sterilized using steam sterilization and ethylene oxide
- The use of titanium needles and related titanium needle stoppers is MR Conditional up to 0.23 Tesla
- User manual 090.719
- Needle tip available in various geometries to adapt to clinical needs

## Order information titanium needle sets

### Trocar point titanium needles

Part number	Description
110.020	Trocar point titanium needle set, 1.9 mm x 200 mm (set of 5 needles, no obturators included)
110.021	Trocar point titanium needle set, 1.9 mm x 240 mm (set of 5 needles, no obturators included)

### Round point titanium needles

Part number	Description
110.022	Round point titanium needle set, 1.9 mm x 200 mm (set of 5 needles, no obturators included)
110.023	Round point titanium needle set, 1.9 mm x 240 mm (set of 5 needles, no obturators included)

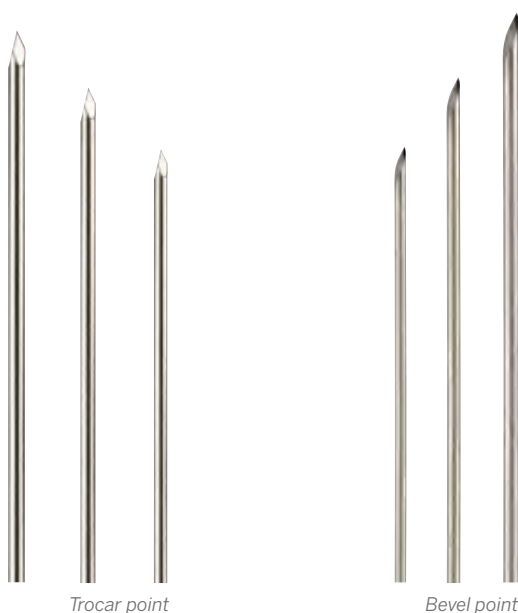
### Accessories

Part number	Description
083.252	Obturator, l = 100 mm (for all titanium needle lengths)
089.636	Handle for obturator
189.996	Titanium needle stopper set (set of 10)
045.004	Torque screwdriver for needle stopper
083.147	Sterilizing caps, 1.9 mm (50 pcs)

## Why Titanium interstitial needles?

- Designed for optimal needle rigidity and sharpness during interstitial treatments
- Needle tip available in various geometries to adapt to clinical need

\*Minimum order quantity is 10 pcs.



## Stainless Steel Interstitial Needles

Interstitial needles are used for treatment of carcinoma where no lumen or cavity is available, or where additional and very precise target area coverage is required. The needles are designed to maintain their rigidity and sharpness throughout multiple treatments, in combination with the appropriate templates. Stainless steel needles have a needle tip that is either round, bevel or trocar shaped. The round tip is designed to minimize tissue damage and optimize ease in implantation. The trocar and bevel tip facilitates insertion in the tissue.

Obturator can be placed inside the needle during insertion to create additional rigidity. The needles are directly connected to the transfer tube of the Elekta afterloader.

### Note:

- Needles are described by their outside diameter and length
- $\varnothing 1.3$  mm needles can only be used with microSelectron
- Needles should be inspected prior to use. Any needle that is blunted, corroded, or bent should be discarded
- Metal needles can be sterilized using steam sterilization and ethylene oxide
- User manual 090.619

### Order information

#### Interstitial needle basic set 1.5 mm, part # 083.900

Quantity	Part number	Description
20*	083.914	Trocar needle 1.5 mm x 80 mm
20*	083.916	Trocar needle 1.5 mm x 100 mm
20*	083.918	Trocar needle 1.5 mm x 120 mm
20*	083.920	Trocar needle, 1.5 mm x 140 mm
20*	083.922	Trocar needle 1.5 mm x 160 mm
20*	083.924	Trocar needle 1.5 mm x 180 mm
20*	083.926	Trocar needle, 1.5 mm x 200 mm
20*	089.001	Obturator for 1.5 mm needle x 80 mm
20*	089.003	Obturator for 1.5 mm needle x 100 mm
20*	089.005	Obturator for 1.5 mm needle x 120 mm
20*	089.007	Obturator for 1.5 mm needle x 140 mm
20*	089.009	Obturator for 1.5 mm needle x 160 mm
20*	089.011	Obturator for 1.5 mm needle x 180 mm
20*	089.013	Obturator for 1.5 mm needle x 200 mm
1	045.004	Torque screwdriver, 1.27 mm
40*	089.025	Needle stopper 1.5 mm

\*When ordered separately the minimum order quantity is 10 pcs.

## Interstitial needle basic set 1.9 mm, part # 083.040

Quantity	Part number	Description
20*	083.050	Trocar needle, 1.9 mm x 80 mm
20*	083.052	Trocar needle, 1.9 mm x 100 mm
20*	083.054	Trocar needle, 1.9 mm x 120 mm
20*	083.056	Trocar needle, 1.9 mm x 140 mm
20*	083.058	Trocar needle, 1.9 mm x 160 mm
20*	083.060	Trocar needle, 1.9 mm x 180 mm
20*	083.062	Trocar needle, 1.9 mm x 200 mm
20*	083.250	Obturator for 1.9 mm needle x 80 mm
20*	083.252	Obturator for 1.9 mm needle x 100 mm
20*	083.254	Obturator for 1.9 mm needle x 120 mm
20*	083.256	Obturator for 1.9 mm needle x 140 mm
20*	083.258	Obturator for 1.9 mm needle x 160 mm
20*	083.260	Obturator for 1.9 mm needle x 180 mm
20*	083.262	Obturator for 1.9 mm needle x 200 mm
40*	083.001	Stainless steel stopper, 1.9 mm needle
1	045.004	Torque screwdriver, 1.27 mm

\*When ordered separately the minimum order quantity is 10 pcs.

### Accessories

Part number	Description
083.147	Sterilizing caps, 1.9 mm (50 pcs)

\*When ordered separately the minimum order quantity is 100 pcs.

### Order information

#### Trocar Point needles, ø1.3 mm

Quantity	Part number	Description
10*	110.109	Trocar needle, 1.3 mm x 120 mm
10*	110.113	Trocar needle, 1.3 mm x 160 mm
10*	110.117	Trocar needle, 1.3 mm x 200 mm

\* When ordered separately the minimum order quantity is 10 pcs.

#### Trocar Point needles, ø1.5 mm

Quantity	Part number	Description
10*	083.914	Trocar needle, 1.5 mm x 80 mm
10*	083.916	Trocar needle, 1.5 mm x 100 mm
10*	083.918	Trocar needle, 1.5 mm x 120 mm
10*	083.920	Trocar needle, 1.5 mm x 140 mm
10*	083.922	Trocar needle, 1.5 mm x 160 mm
10*	083.924	Trocar needle, 1.5 mm x 180 mm
10*	083.926	Trocar needle, 1.5 mm x 200 mm

\*When ordered separately the minimum order quantity is 10 pcs.

## Why Stainless steel interstitial needles?

- Designed to maintain their rigidity and sharpness throughout multiple treatment
- Needle tip available in various geometries to adapt to clinical needs

#### Trocar Point needles, ø1.9 mm

Quantity	Part number	Description
10*	083.050	Trocar needle, 1.9 mm x 80 mm
10*	083.052	Trocar needle, 1.9 mm x 100 mm
10*	083.054	Trocar needle, 1.9 mm x 120 mm
10*	083.056	Trocar needle, 1.9 mm x 140 mm
10*	083.058	Trocar needle, 1.9 mm x 160 mm
10*	083.060	Trocar needle, 1.9 mm x 180 mm
10*	083.062	Trocar needle, 1.9 mm x 200 mm
10*	083.066	Trocar needle, 1.9 mm x 240 mm
10*	083.072	Trocar needle, 1.9 mm x 294 mm

\* When ordered separately the minimum order quantity is 10 pcs.

#### Bevel Point needles, 1.9 mm ø

Part number	Description
083.045*	Bevel needle, 1.9 mm x 200 mm

\*When ordered separately the minimum order quantity is 20 pcs.

### Accessories

Part number	Description
083.147	Sterilizing caps, 1.9 mm (50 pcs)



*Image doesn't show full leaders  
at end of catheters.*



## Flexible Implant Tubes

The flexible implant tubes are developed for treatments that require a moldable source path. The flexible implant tubes are equipped with 'leaders' to run the implant tube through a channel in the tissue that is preformed by a leader insertion needle. The flexible implant tubes are available in various configurations: single leader with button end; single leader with blind end, or double leader. They arrive sterilized and ready for immediate clinical use. To improve visibility of the flexible implant tubes in combination with state of the art CT and MR imaging modalities, dedicated CT/MR flexible implant sets and buttons are available.

### Note:

- Flexible implant tubes are delivered sterile, and are for single use only
- Flexible implant tubes are packed in pouches of 6, and with 6 pouches per box
- Buttons are packed in pouches of 6, and with 12 pouches per box
- For Flexitron afterloaders, only Flexible Implant tubes with length  $\leq 400$  mm can be used
- User manual 090.710
- The insertion needles are not MR safe



## Order information

### Flexible implant tube set, 6F, 30 cm, part # 189.400\*

Quantity	Part number	Description
2	189.300 ●	Flexible implant tube, 6F, single leader, 30 cm (box of 36)
2	189.298 ●	Flexible implant tube, 6F, double leader, 30 cm (box of 36)
2	189.296 ●	Flexible implant tube, 6F, blind end, 30 cm (box of 36)
1	189.282 ●	Radio-opaque button white, 6F (box of 72)
1	189.284 ●	Radio-opaque button black, 6F (box of 72)
1	189.286 ●	Radio-opaque button red, 6F (box of 72)
1	189.288 ●	Radio-opaque button blue, 6F (box of 72)
1	189.290 ●	Radio-opaque button green, 6F (box of 72)
1	189.367	Cutter flexible implants
1	189.437 ●	Leader Insertion needles, 1.5 x 200 mm, (box of 72)

\* Set contains non-CT/MR compatible parts.

### CT/MR flexible implant tube set, 6F, 30 cm, part # 189.401

Quantity	Part number	Description
2	189.445 ●	CT/MR flexible implant tube, 6F, single leader, 30 cm (box of 36)
2	189.298 ●	Flexible implant tube, 6F, double leader, 30 cm (box of 36)
2	189.296 ●	Flexible implant tube, 6F, blind end, 30 cm (box of 36)
1	189.458 ●	Radio-lucent button white, 6F (box of 72)
1	189.460 ●	Radio-lucent button black, 6F (box of 72)
1	189.462 ●	Radio-lucent button red, 6F (box of 72)
1	189.464 ●	Radio-lucent button blue, 6F (box of 72)
1	189.466 ●	Radio-lucent button green, 6F (box of 72)
1	189.367	Cutter flexible implants
1	189.437	Leader Insertion needles, 1.5 x 200 mm, (box of 72)

\*Minimum order quantity is 50 pcs.

\*\*Button is not CT/MR compatible.

## Why Flexible implant tubes?

- Easy to use for interstitial treatments, i.e. tongue, breast and soft tissue

## Accessories

Part number	Description
189.445 ●	CT/MR flexible implant tube, 6F, single leader, 30 cm (box of 36)
189.504**●	Flexible implant tube, 6F, single leader, 50 cm (box of 36)
189.502 ●	Flexible implant tube, 6F, double leader, 50 cm (box of 36)
189.500 ●	Flexible implant tube, 6F, blind end, 50 cm (box of 36)
189.510**●	Flexible implant tube, 5F, single leader, 30 cm (box of 36)
189.508 ●	Flexible implant tube, 5F, double leader, 30 cm (box of 36)
189.506 ●	Flexible implant tube, 5F, blind end, 30 cm (box of 36)
189.292**●	Radio-opaque button yellow, 6F (box of 72)
189.294**●	Radio-opaque button brown, 6F (box of 72)
189.472**●	Radio-opaque button white, 5F (box of 72)
189.474**●	Radio-opaque button black, 5F (box of 72)
189.476**●	Radio-opaque button red, 5F (box of 72)
189.478**●	Radio-opaque button blue, 5F (box of 72)
189.480**●	Radio-opaque button green, 5F (box of 72)
189.482**●	Radio-opaque button yellow, 5F (box of 72)
189.484**●	Radio-opaque button brown, 5F (box of 72)
045.103	S.S. button, Henschke
045.046 ●	Bevel needle, Open End, 1.5 x 200 mm
089.021	Catheter insertion set, 6F trocar
089.023	Catheter insertion set, 6F bevel
594.456	Emergency button cutter
089.420	X-ray catheter set, 30 cm (1-18)
030.100	Push Fit disconnection tool
089.348 ●	Kink protection tube, for 6F flexible*
089.345 ●	Kink protection tube, for transfer tube*

# Quality Assurance Tools



## Content

### **SOURCE POSITION CHECK RULER / SOURCE POSITION SIMULATOR**

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### **CT/MR APPLICATOR CLAMP**

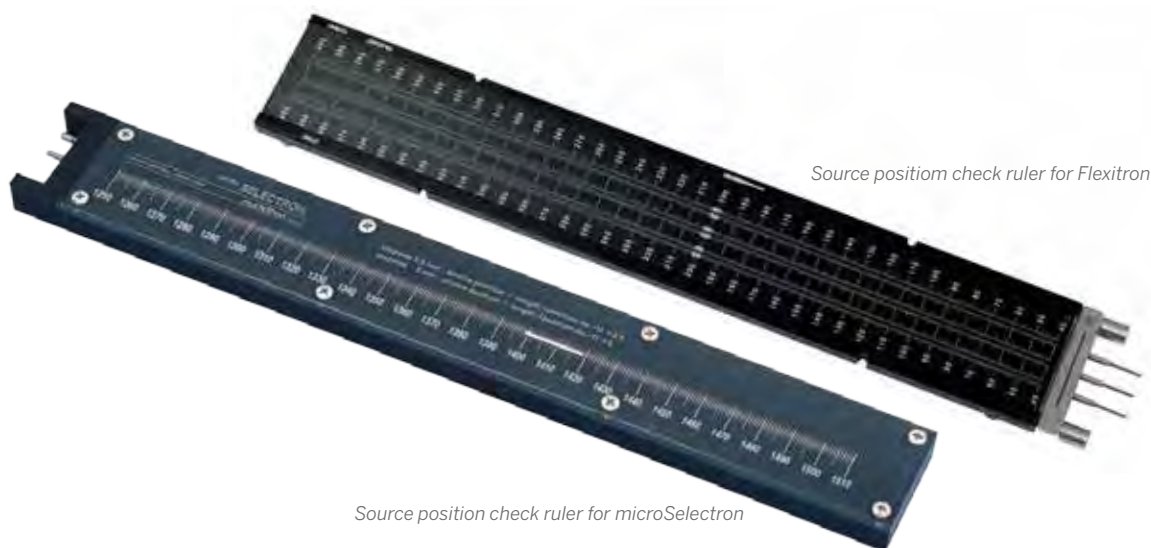
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### **PATIENT BELT COUPLING (PBC)**

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### Source Position Check Ruler

The Source Position Check Ruler is designed for verification of the correct treatment position of the sources and check cable, and of the length of each of the transfer tubes. It can be used with either the mechanical indicator or GAFCHROMIC\* filmstrip, a method that enables instant logging of the result of the measurement.

The Source Position Check Ruler has embedded markers that allow multiple measurements and serve as reference to validate correct positioning of the GAFCHROMIC® filmstrip. The films are transparent for easy digitizing or scanning, and are self-developing.

#### Note:

- User manual for Flexitron: 777.00110
- User manual for microSelectron: 090.689

### Order information

#### Source Position Check Ruler for Flexitron

Part number	Description
136.196	3-channel source position check ruler

#### Flexitron adaptor overview

Part number	Source position check ruler adaptor set to connect	Transfer tube part number
137.040	Gynecological titanium transfer tubes	137.063
137.041	5F catheter transfer tubes (old versions - compatible to transfer tube sets delivered before May 2014)	137.090 / 137.091 137.092 / 137.093
	6F catheter transfer tubes (old versions - compatible to transfer tube sets delivered before May 2014)	137.094 / 137.095 137.096 / 137.097
137.042	5F catheter transfer tubes	137.090 / 137.091 137.092 / 137.093
137.043	6F catheter transfer tubes	137.094 / 137.095 137.096 / 137.097
137.182	Gynecological stainless steel transfer tubes (default included with SPCR)	111.680
137.180	Gynecological CT/MR transfer tubes	111.650
137.818	Metal needles transfer tubes	111.805 / 111.816 111.827 / 111.838

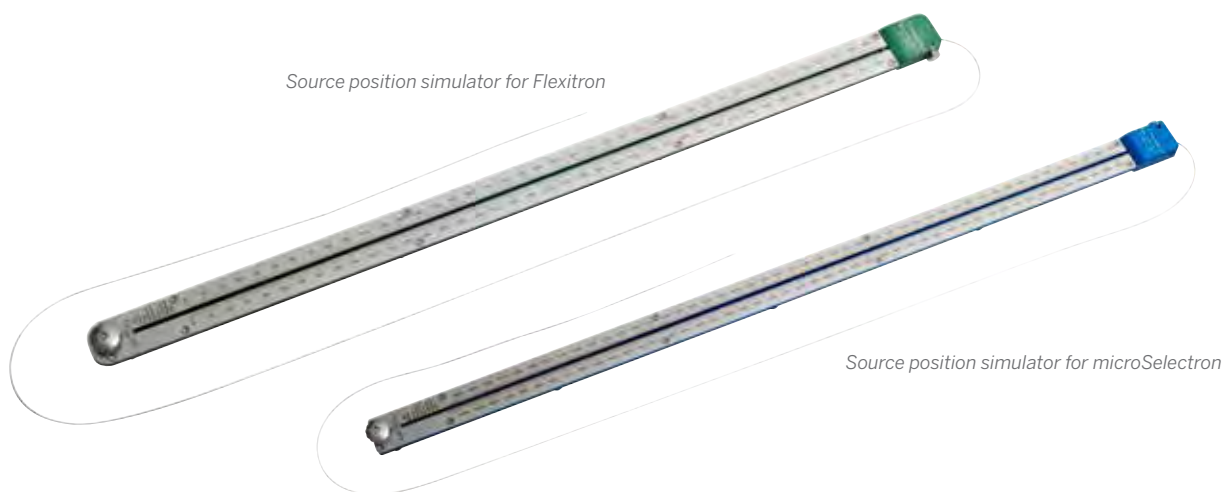
#### Source Position Check Ruler for microSelectron

Part number	Description
096.035	Source position check ruler (including 2 GAFCHROMIC filmstrips)

#### Accessories for microSelectron

Part number	Description
096.271A10 ●	GAFCHROMIC filmstrip (box of 10)
073.250	Audio radiographic check device
080.034	Positioning ROD check ruler

\*It is recommended to store GAFCHROMIC film in the dark until use.  
GAFCHROMIC film is only for use with the microSelectron afterloader.



### Source Position simulator

The Source Position simulator is designed to determine the distal length of an applicator.

### Note:

- User Manual for Flexitron: 777.00264
- User Manual for microSelectron: 090.682ENG

### Order information

#### Source position simulator for Flexitron:

Part number	Description
138.200	Source position simulator set for Flexitron
138.202	Source position simulator set for Flexitron with x-ray markers

#### Accessories for Flexitron

Part number	Description
138.225	Standard slider with dummy cable
138.227	Optional slider with simulator wire with x-ray markers

#### Source position simulator for microSelectron

Part number	Description
111.094	Source position simulator set
111.096	Source position simulator set with x-ray markers

#### Accessories for microSelectron

Part number	Description
111.268	Standard slider with dummy cable
111.275	Optional slider with simulator wire with x-ray markers



## CT/MR Applicator Clamp

The CT/MR applicator clamp is designed for fixation of applicators to a patient treatment table or patient bed. It is compatible with use of CT and MR imaging. With one knob all variables such as length, rotation, sloping and angle of the inserted applicator can be fixed. For fixation of the applicator itself, various inserts are provided that allow fitting all available Elekta Brachytherapy applicators within the clamp. The entire assembly requires no oil, and can easily be taken apart for cleaning purposes. The CT/MR applicator clamp can be attached to a base plate for immobilization in any hospital bed or the clamp can be mounted on an axle in order to attach the clamp to for example a hospital bed IBU table etc.

### Benefits:

- Can be used with various imaging modalities
- Accurate applicator fixation
- Easy to use
- The baseplate is X-ray translucent
- All clamp components can be sterilized using steam sterilization

### Note:

- User manual: 090.716

### Order information

#### CT/MR applicator clamp with base plate, # 189.932

Quantity	Description
1	Fixation part
1	Base plate
4	Inserts ø 3 mm (titanium coloured)
4	Inserts ø 6 mm (white coloured)
4	Inserts ø 12 mm (black coloured)

#### CT/MR applicator clamp with axle, # 189.931

Quantity	Description
1	Fixation part
1	Axle
4	Inserts ø 3 mm (titanium coloured)
4	Inserts ø 6 mm (white coloured)
4	Inserts ø 12 mm (black coloured)

### Accessories

Part number	Description
189.981	Set of 4 inserts ø 3 mm (titanium colored)
189.980	Set of 4 inserts ø 6 mm (white colored)
189.982	Set of 4 inserts ø 12 mm (black colored)
189.952	Spare applicator fixation knob (small)
189.959	Spare clamp fixation knob (large)



## Patient Belt Coupling (PBC)\*

Patient Belt Coupling sets, featuring the quick release coupling device, are designed to support a user-friendly fixation of transfer tubes and applicator components. The quick release coupling enables a patient to be connected and disconnected from the afterloader in a quick and easy way. Dedicated transfer tubes are connected to separate parts of the quick release coupling and similarly to the patient and the afterloader. The patient connector part of the quick release coupling is fixed in position using a patient belt. With all transfer tubes in place on the patient and on the afterloader side, the separate parts of the quick release coupling are connected or disconnected by a one simple twist. Complete Patient Belt Coupling sets for various types of applicators are available.

\* Available only for use with microSelectron PDR afterloader.

### Note:

- Manual number: 090.653

### Order information

#### PBC set for needles and flexibles, part # 111.379

Part number	Description
030.299	Patient waist belt set
111.440	Coupling transfer tube set for needles (1-18)
111.480	Coupling transfer tube set 6F flexibles (1-18)
079.087	Quick release coupling set
111.420	Coupling transfer tube set

#### PBC set for Gynecologic applicators, part # 111.380

Part number	Description
032.345	Patient leg belt set
	Coupling transfer tube no. 1
	Coupling transfer tube no. 2
	Coupling transfer tube no. 3
079.087	Quick release coupling set
111.381	Gynecologic transfer tube, ch 1
111.382	Gynecologic transfer tube, ch 2
111.383	Gynecologic transfer tube, ch 3

#### PBC set for flexible implant tubes, part # 111.385

Quantity	Part number	Description
1	030.299	Patient waist belt set
1	111.480	Coupling transfer tube set 6F flexibles (1-18)
1	079.087	Quick release coupling set
1	111.420	Coupling transfer tube set

#### PBC set for Interstitial needles, part # 111.386

Part number	Description
030.299	Patient waist belt set
111.440	Coupling transfer tube set for needles (1-18)
079.087	Quick release coupling set
111.420	Coupling transfer tube set

### Accessories for PBC sets

Part number	Description
030.100	Push fit disconnection tool*
	GYN PBC transfer tube keyed for channel 1
	GYN PBC transfer tube keyed for channel 2
	GYN PBC transfer tube keyed for channel 3
111.384	GYN PBC transfer tube keyed for channel 4
079.087	Quick release coupling set

\* for use with flexible implant tubes only.

### Coupling transfer tube sets

Part number	Description
111.420	Coupling transfer tube set (channel 1-18)
111.520	Coupling transfer tube set (channel 19-30)
111.440	Coupling transfer tube set for needles (channel 1-18)
111.535	Coupling transfer tube set for needles (channel 19-30)
111.500	Coupling transfer tube set for 4F flexible implant tubes (channel 1-18)
111.580	Coupling transfer tube set for 4F flexible implant tubes (channel 19-30)
111.460	Coupling transfer tube set for 5F flexible implant tubes (channel 1-18)
111.550	Coupling transfer tube set for 5F flexible implant tubes (channel 19-30)
111.480	Coupling transfer tube set for 6F flexible implant tubes (channel 1-18)
111.565	Coupling transfer tube set for 6F flexible implant tubes (channels 19-30)

### Accessories

Part number	Description
079.087	Quick release coupling

# Accessories



- Accessories are categorized on part number (low to high)
- Not all accessories are included in the overview. If you cannot find a specific item or if you have any questions on accessories, please contact your Elekta representative.



### Torque screwdriver

Part number	Description
006.030	Torque screwdriver 2.5 mm



### Push fit disconnection tool

Part number	Description
030.100	Push fit disconnection tool for Flexitron and microSelectron



### Torque screwdriver, 2.5 mm

Part number	Description
045.004	Torque screwdriver, 2.5 mm



### Perineal bar

Part number	Description
084.008	Perineal bar for vaginal applicator



### Cervical stopper

Part number	Description
084.009	Cervical stopper for vaginal applicator



### Ovoid pair 20 mm

Part number	Description
084.042	Ovoid pair, 20 mm, small unshielded



### Perineal bar

Part number	Description
084.072	Perineal bar for the ring applicator



### Sterilizing caps

Part number	Description
084.158	Sterilizing caps 3.2 mm



### Fixing mechanism retractor

Part number	Description
086.011	Fixing mechanism_retractor



### Kink protection tubes

Part number	Description
089.345	Kink protection tube, for transfer tube
089.347	Kink protection tube, 5F
089.348	Kink protection tube, 6F



### Handle for obturator

Part number	Description
089.636	Handle for obturator



### Leader insertion needles

Part number	Description
089.700	Leader insertion needle, 1.5 x 120 mm (1 pcs)
089.701	Leader insertion needle, 1.5 x 160 mm (1 pcs)
089.702	Leader insertion needle, 1.5 x 200 mm (6 pcs)



### Sterilization caps CT/MR

Part number	Description
101.012	Sterilization caps CT/MR



### Perineal bar

Part number	Description
101.054	Perineal bar for CT/MR ring applicators



### Interstitial ovoid pair, 20 mm

Part number	Description
110.270	Interstitial ovoid pair, 20 mm



### Titanium screwdriver for ovoids and stopper

Part number	Description
110.283	Titanium screwdriver for ovoids and stopper



### MR line marker set

Part number	Description
110.290	MR line marker set



**Note:**

- Delivered non-sterile and not filled with fluid
- User manual 777.00081

### Intrauterine tube, ovoids, 4 mm, various degrees

Part number	Description
110.296 / 110.298 / 110.300	Intrauterine tube, 4 mm, various degrees



### Intrauterine tube, ring, 4 mm

Part number	Description
110.303 until 110.307	Intrauterine tube 4 mm (available in various lengths and degrees)



### Rectal retractor, 4 mm, 30 mm

Part number	Description
110.315	Rectal retractor, 30 mm with slot for 4 mm intrauterine tubes



### Rectal retractor, 4 mm, 40 mm

Part number	Description
110.335	Rectal retractor, 40 mm with slot for 4 mm intrauterine tubes



### Cervical stopper

Part number	Description
110.395	Cervical stopper for 4 mm intrauterine tubes



### Cervical stopper tool

Part number	Description
110.396	Cervical stopper tool



### Ovoid pair 15 mm micro ovoids

Part number	Description
110.540	Ovoid pair, 15 mm, micro ovoids



### Pins for adjustable fixation mechanism

Part number	Description
110.700	Pins for adjustable fixation mechanism



### Needle fixation tool

Part number	Description
110.720	Needle fixation tool



### Fixation screws

Part number	Description
110.771	Fixation screws



### Perineal bar set

Part number	Description
110.773	Perineal bar set for vaginal CT/MR multi channel



### Applicator clamp adapter set

Part number	Description
110.778	Applicator clamp adapter set



### Catheter with collar

Part number	Description
110.800	Catheter with collar



### Cervical stopper

Part number	Description
110.954	Cervical stopper for Fletcher CT/MR shielded



### Fixation clip

Part number	Description
110.957	Fixation clip



### Ovoid cap

Part number	Description
110.960	Ovoid cap



### Intrauterine tube, ovoids, 4 mm, various degrees

Part number	Description
110.971	Intrauterine tube, 4 mm, various degrees



### Interstitial lunar ovoid tubes

Part number	Description
126.001	Interstitial lunar ovoid tube 22 mm 60° right
126.002	Interstitial lunar ovoid tube 22 mm 60° left
126.003	Interstitial lunar ovoid tube 26 mm 60° right
126.004	Interstitial lunar ovoid tube 26 mm 60° left
126.005	Interstitial lunar ovoid tube 30 mm 60° right
126.006	Interstitial lunar ovoid tube 30 mm 60° left



### Vaginal caps

Part number	Description
126.007	Vaginal cap 22 mm right
126.008	Vaginal cap 22 mm left
126.009	Vaginal cap 26 mm right
126.010	Vaginal cap 26 mm left
126.011	Vaginal cap 30 mm right
126.012	Vaginal cap 30 mm left



### Intrauterine tubes

Part number	Description
126.013	Intrauterine tube 0 mm
126.014	Intrauterine tube 30 mm 30°
126.015	Intrauterine tube 40 mm 30°
126.016	Intrauterine tube 50 mm 30°
126.017	Intrauterine tube 60 mm 30°
126.018	Intrauterine tube 70 mm 30°
126.019	Intrauterine tube 30 mm 15°
126.020	Intrauterine tube 40 mm 15°
126.021	Intrauterine tube 50 mm 15°
126.022	Intrauterine tube 60 mm 15°
126.023	Intrauterine tube 70 mm 15°



### Fixation element

Part number	Description
126.024	Fixation element



### Fixation clip

Part number	Description
126.025	Fixation clip



### Perineal template dorsal

Part number	Description
126.026	Perineal template dorsal 0°
126.027	Perineal template dorsal 12°



### Perineal template ventral

Part number	Description
126.028	Perineal template ventral 0°



### Bracelet for guiding tubes

Part number	Description
126.029	Bracelet for guiding tubes



### Number tag for guiding tubes

Part number	Description
126.030	Number tag for guiding tubes



### Guiding tubes

Part number	Description
126.031	Guiding tubes for interstitial lunar ovoid
126.032	Guiding tubes for vaginal cap



### Perineal bar

Part number	Description
126.033	Perineal bar



### Lock insert set for plastic needles

Part number	Description
137.286 / 137.287 / 137.289	Lock insert set for plastic needles



### Flange molding cutter

Part number	Description
189.316	Flange molding cutter



### Flange molding tool

Part number	Description
189.320	Flange molding tool



### Cutter flexible implants

Part number	Description
189.367	Cutter flexible implants



### Smit Sleeve, ø 9 mm – for use with 6 mm intrauterine tubes

Part number (box of 10)	Part number (box of 3)	Description
189.566 ●	110.599 ●	Smit sleeve, 40 mm



### Smit Sleeve, ø 6 mm – for use with 4 mm intrauterine tubes

Part number (box of 10)	Part number (box of 3)	Description
189.676 ●	110.593 ●	Smit sleeve, l = 20 mm
189.677 ●	110.594 ●	Smit sleeve, l = 40 mm
189.679 ●	110.595 ●	Smit sleeve, l = 60 mm
189.681 ●	110.596 ●	Smit sleeve, l = 70 mm
189.682 ●	110.597 ●	Smit sleeve, l = 80 mm
189.683 ●	110.598 ●	Smit sleeve, l = 100 mm



The use of Smit Sleeves slightly dilates the cervix, facilitating reinsertion of the intrauterine tube for follow-up fractions. It acts as a cervical stopper and provides tissue spacing to reduce mucosal dose. The soft material of the Smit Sleeve enables insertions up to 28 days.

#### Note:

- Delivered sterile, single-packed and for single use
- User manual 090.712
- Can remain in place up to 28 days

### Insertion tool

Part number	Description
189.714	Insertion tool



### Internal fixation mechanism

Part number	Description
189.724	Internal fixation mechanism



### Intrauterine tube, 6 mm, various degrees

Part number	Description
189.739 / 189.745 / 189.796	Intrauterine tube, 6 mm, various degrees



### Fixation nut for rectal retractor

Part number	Description
189.741	Fixation nut for rectal retractor



### Rectal retractor, 6 mm, 30 mm

Part number	Description
189.742	Rectal retractor, 30 mm with slot for 6 mm intrauterine tubes



### Rectal retractor, 6 mm, 40 mm

Part number	Description
189.751	Rectal retractor, 40 mm with slot for 6 mm intrauterine tubes



### Ovoid pair, 25 mm

Part number	Description
189.755	Ovoid pair, 25 mm



### Plastic screw set M5 PPSU

Part number	Description
189.894	Plastic screw set M5 PPSU



### Ovoid pair with radius 15, 30, 35 or 40 mm

Part number	Description
189.901	Ovoid pair with radius 15, 30, 35 or 40 mm



### Fixation nut

Part number	Description
189.930	Fixation nut



### Titanium needle stopper set

Part number	Description
189.996	Titanium needle stopper set



### Battery charge station

Part number	Description
417.006	Battery charge station



### Li-ion battery pack

Part number	Description
417.018	Li-ion battery pack



### Emergency button cutter

Part number	Description
594.456	Emergency button cutter





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## X-ray, CT and MRI Markers for Flexitron

The appropriate X-ray and CT-markers for use of a specific applicator with your afterloader can be selected with this table. If no crossmatch is indicated in this table, it is not possible to connect that applicator and afterloader.			X-ray marker set			X-ray catheter set 30 cm				X-ray catheter set 40 cm	
			CT/MR GYN	SS GYN	Ti GYN						
		For channel:			1-3-5	1-9	10-18	1-18	19-30	3-11	
		Part number:	110.400	110.570	137.070	089.082	089.083	089.420	189.850	137.089	089.082
Bodysite	Part number	Description									
Gynecology	084.450	Adjustable Cervix applicator set		x							
Gynecology	137.206/217/218	Cervix Rotterdam applicator sets			x						
Gynecology	189.730	Fletcher CT/MR applicator set	x								
Gynecology	110.980 / 110.950	Fletcher CT/MR Shielded applicator set	x								
Gynecology	085.230/260	Fletcher Williamson applicator sets		x							
Gynecology	110.018	Henschke titanium applicator set		x							
Gynecology	110.330/331/332 A01/02	Interstitial Ring CT/MR applicator sets	x								
Gynecology	085.210	Miami Vaginal applicator set		x		x					
Gynecology	084.050	Ring applicator set		x							
Gynecology	101.035/060/061/062	Ring CT/MR applicator sets	x								
Gynecology	084.434	Rotte Endometrial applicator set		x							
Gynecology	084.320	Shielded Cylindrical applicator set		x							
Gynecology	101.020	Standard CT/MR applicator set	x								
Gynecology	137.400	Ti Vaginal Cylinder applicator set			x						
Gynecology	110.270 A01/02	Utrecht Interstitial CT/MR applicator sets	x								
Gynecology	084.350	Vaginal applicator set		x							
Gynecology	101.001	Vaginal CT/MR applicator set	x								
Gynecology	110.750	Vaginal CT/MR Multi Channel applicator set	x								
Gynecology	189.018	Vaginal mold applicator set		x							
Gynecology	not applicable	Advanced Gynecological Applicator - Venezia	x								
Gynecology	189.569/699/792	Vienna Ring CT/MR applicator sets	x			x	x	x			
Breast	110.518	Breast CT/MR applicator set	Depending on use of OncoSmart catheters or type of needles								
Breast	189.006	Kuske breast applicator set				x	x	x	x		
Breast	103.111	Oncosmart Introduction set									
Prostate, rectum & bladder	110.564/565/566/567	Lunera applicator set				x			x	x	
Prostate, rectum & bladder	110.224	Intracavitary mold applicator set								x	
Prostate, rectum & bladder	083.570/571, 089.055/056	MUPIT applicator sets				x	x	x	x		
Prostate, rectum & bladder	189.069	Prostate stepper Template set 5F				x	x	x	x		
Prostate, rectum & bladder	189.070	Prostate stepper template set 6F				x	x	x	x		
Skin	089.095	Freiburg Flap applicator set				x	x	x	x		
Skin	085.040	Leipzig applicator set									
Skin	110.820	Valencia Skin applicator set									
Head & Neck	045.410	Pipard tongue template set				x					
Head & Neck	089.068	Rotterdam nasopharyngeal mold						x			
Needles	various	Titanium needle sets (Trocarn point & round point)				x	x	x	x		
Needles	various	Stainless steel needles (Interstitial/Trocarn point/Bevel point )				x	x	x	x		
Needles	various	ProGuide Round/Sharp needle set 5Fx240 mm				x	x	x	x		
Needles	various	ProGuide Round/Sharp needle set 6Fx200 mm									
Needles	various	ProGuide Round/Sharp needle set 6Fx240 mm									
Needles	various	ProGuide Round/Sharp needle set 6Fx294 mm									
Flexible implant tubes	various	Flexible implant tubes, 5F/6F, 30 cm				x	x	x	x		

Note: markers for bronchus & esophagus applicators are not included on this page as they are included in the applicator set



X-ray catheter set 50 cm			CT Marker set 200 mm			CT Marker set 240 mm			CT Marker set 294 mm			CT marker set 5F and 6F catheters (3 pcs)				MR Line Marker set
			metal, 6 markers	metal, 12 markers	metal, 18 markers	black, 6 markers	black, 12 markers	black, 18 markers	yellow, 6 markers	yellow, 12 markers	yellow, 18 markers	100 mm	200 mm	300 mm	400 mm	
1-9	10-18	19-30														
89.089	089.090	189.851	110.285	189.691	189.034	110.286	189.692	189.036	110.287	189.693	189.039	110.610	110.611	110.612	110.613	110.290
																x
																x
x	x								x	x	x					x
																x
																x
x	x								x	x	x					x
																x
x	x								x	x	x					x
x	x									x	x					x
																x
					x			x			x	x	x	x	x	
x	x	x														
x	x															
						x	x	x								
			x	x	x											
			x	x	x	x	x	x								
						x	x	x								
			x	x	x											
x	x	x				x	x	x								
												x	x	x	x	

## Transfer tubes for Flexitron

The appropriate transfer tube set to connect a specific applicator to your afterloader can be selected with this table. If no crossmatch is indicated in this table, it is not possible to connect that applicator and afterloader.			Transfer tube set for GYN			Transfer tube set for Skin	Transfer tube set for Breast
			CT/MR applicators	Stainless steel applicators	Titanium applicators		
		For channel:	1-3-5	1-3-5	1-2-3	5	1-10
		Part number:	111.650	111.680	137.063	111.683	111.805
Bodysite	Part number	Description					
Gynecology	084.450	Adjustable Cervix applicator set		x			
Gynecology	137.206/217/218	Cervix Rotterdam applicator sets			x		
Gynecology	189.730	Fletcher CT/MR applicator set	x				
Gynecology	110.980/110.950	Fletcher CT/MR Shielded applicator set					
Gynecology	085.230/260	Fletcher Williamson applicator sets		x			
Gynecology	110.018	Henschke titanium applicator set		x			
Gynecology	110.330/331/332 A01/02	Interstitial Ring CT/MR applicator sets	x				
Gynecology	085.210	Miami Vaginal applicator set		x			x
Gynecology	084.050	Ring applicator set		x			
Gynecology	101.035/060/061/062	Ring CT/MR applicator sets	x				
Gynecology	084.434	Rotte Endometrial applicator set		x			
Gynecology	084.320	Shielded Cylindrical applicator set		x			
Gynecology	101.020	Standard CT/MR applicator set	x				
Gynecology	137.400	Ti Vaginal Cylinder applicator set			x		
Gynecology	110.270 A01/02	Utrecht Interstitial CT/MR applicator sets	x				
Gynecology	084.350	Vaginal applicator set		x			
Gynecology	101.001	Vaginal CT/MR applicator set	x				
Gynecology	110.750	Vaginal CT/MR Multi Channel applicator set	x				
Gynecology	189.018	Vaginal mold applicator set		x			
Gynecology	not applicable	Advanced Gynecological Applicator - Venezia	x				
Gynecology	189.569/699/792	Vienna Ring CT/MR applicator sets	x				x
Breast	110.518	Breast CT/MR applicator set	Depending on use of OncoSmart catheters or type of needles				
Breast	189.006	Kuske breast applicator set					
Breast	various	OncoSmart catheter sets					
Prostate, rectum & bladder	110.564/565/566/567	Lunera applicator set					
Prostate, rectum & bladder	110.224	Intracavitary Mold applicator set					
Prostate, rectum & bladder	083.570/571, 089.055/056	MUPIT applicator sets					x
Prostate, rectum & bladder	137.280	Martinez prostate template	Depending on use of type of needles				
Prostate, rectum & bladder	189.069	Prostate stepper template set 5F					
Prostate, rectum & bladder	189.070	Prostate stepper template set 6F					
Skin	089.095	Freiburg Flap applicator set					
Skin	085.040	Leipzig applicator set		x		x	
Skin	110.820	Valencia Skin applicator set		x		x	
Head & Neck	045.410	Pipard tongue template set	Depending on use of flexible implants				
Head & Neck	089.068	Rotterdam nasopharyngeal Mold					
Needles	various	Titanium needle sets (Trocac Point)					x
Needles	various	Stainless steel needles (Interstitial/Trocac point/ Bevel point )					x
Needles	various	ProGuide needles 5F					
Needles	various	ProGuide needles, 6F					
Flexible implant tubes	various	Flexible implant tubes 5F					
Flexible implant tubes	various	Flexible implant tubes 6F					

Note: bronchus & esophagus applicator sets include adapters to insert the applicator directly in the index

[illegible]

## X-ray, CT and MRI Markers for microSelectron

The appropriate X-ray and CT-markers for use of a specific applicator with your afterloader can be selected with this table. If no crossmatch is indicated in this table, it is not possible to connect that applicator and afterloader.			X-ray catheter set			GYN X-ray marker set, 300 mm	X-ray catheter set, Norman Simon	X-ray catheter set	
		For channel:	standard GYN	USA GYN	CT/MR GYN				
		Part number:	085.075	084.880	101.065	137.070	089.096	089.082	089.083
Bodysite	Part number	Description							
Gynecology	084.450	Adjustable Cervix applicator set	x	x					
Gynecology	089.079	Basic Norman Simon applicator set					x		
Gynecology	137.206/217/218	Cervix Rotterdam applicator sets				x			
Gynecology	189.730	Fletcher CT/MR applicator set			x				
Gynecology	110.980 / 110.950	Fletcher CT/MR Shielded applicator set			x				
Gynecology	085.230/260	Fletcher Williamson applicator sets	x	x					
Gynecology	110.018	Henschke titanium applicator set	x	x					
Gynecology	110.330/331/332 A01/02	Interstitial Ring CT/MR applicator sets			x				
Gynecology	085.210	Miami Vaginal applicator set	x	x				x	
Gynecology	084.050	Ring applicator set	x						
Gynecology	101.035/060/061/062	Ring CT/MR applicator sets			x				
Gynecology	084.434	Rotte Endometrial applicator set	x	x					
Gynecology	084.320	Shielded Cylindrical applicator set	x	x					
Gynecology	101.020	Standard CT/MR applicator set			x				
Gynecology	137.400	TI Vaginal Cylinder applicator set				x			
Gynecology	110.270 A01/02	Utrecht Interstitial CT/MR applicator sets			x				
Gynecology	084.350	Vaginal applicator set	x	x					
Gynecology	101.001	Vaginal CT/MR applicator set			x				
Gynecology	110.750	Vaginal CT/MR Multi Channel applicator set			x				
Gynecology	189.018	Vaginal mold applicator set	x	x					
Gynecology	not applicable	Advanced Gynecological Applicator - Venezia			x				
Gynecology	189.569/699/792	Vienna Ring CT/MR applicator sets			x			x	x
Breast	110.518	Breast CT/MR applicator set	Depending on use of OncoSmart catheters or type of needles						
Breast	189.006	Kuske breast applicator set						x	x
Breast	various	Oncosmart catheter sets							
Prostate, rectum & bladder	110.564/565/566/567	Lunera applicator set						x	x
Prostate, rectum & bladder	189.011	Intracavitary mold applicator set							
Prostate, rectum & bladder	083.570/571, 089.055/056	MUPIT applicator sets						x	x
Prostate, rectum & bladder	189.069	Prostate stepper template set 5F						x	x
Prostate, rectum & bladder	189.070	Prostate stepper template set 6F						x	x
Skin	089.095	Freiburg Flap applicator set						x	x
Skin	085.040	Leipzig applicator set							
Skin	189.701	Valencia Skin applicator set							
Head & Neck	045.410	Pipard tongue template set						x	
Head & Neck	089.068	Rotterdam nasopharyngeal Mold							
Needles	various	Titanium needle sets (Trocarn Point)						x	x
Needles	various	Stainless steel needles (Interstitial/Trocarn point/Bevel point )						x	x
Needles	various	ProGuide Round/Sharp needle set 5Fx240 mm						x	x
Needles	various	ProGuide Round/Sharp needle set 6Fx200 mm						x	x
Needles	various	ProGuide Round/Sharp needle set 6Fx240 mm						x	x
Needles	various	ProGuide Round/Sharp needle set 6Fx294 mm							
Flexible implant tubes	various	Flexible implant tubes, 5F/6F, 30 cm						x	x
Flexible implant tubes	various	Flexible implant tubes, 6F, 50 cm							

Note: markers for bronchus & esophagus applicators are not included on this page as they are included in the applicator set

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## Transfer tubes for microSelectron

With this table, the appropriate transfer tube set can be selected to connect a specific applicator to your afterloader. If no crossmatch is indicated in this table, it is not possible to connect that applicator and afterloader.			Transfer tube set for GYN		
		For channel:	1-3	1-3	1-2-3
		Part number:	111.001	111.006	111.100
Bodysite	Part number	Description			
Gynecology	084.450	Adjustable Cervix applicator set	x		
Gynecology	089.079	Basic Norman Simon applicator set			
Gynecology	137.206/217/218	Cervix Rotterdam applicator sets			x
Gynecology	189.730	Fletcher CT/MR applicator set		x	
Gynecology	110.980 / 110.950	Fletcher CT/MR Shielded applicator set		x	
Gynecology	085.230/260	Fletcher Williamson applicator sets	x		
Gynecology	110.018	Henschke titanium applicator set	x		
Gynecology	110.330/331/332 A01/02	Interstitial Ring CT/MR applicator sets		x	
Gynecology	085.210	Miami Vaginal applicator set	x		
Gynecology	084.050	Ring applicator set	x		
Gynecology	101.035/060/061/062	Ring CT/MR applicator sets		x	
Gynecology	084.434	Rotte Endometrial applicator set	x		
Gynecology	084.320	Shielded Cylindrical applicator set	x		
Gynecology	101.020	Standard CT/MR applicator set		x	
Gynecology	137.400	Ti Vaginal Cylinder applicator set			x
Gynecology	110.270 A01/02	Utrecht Interstitial CT/MR applicator sets		x	
Gynecology	084.350	Vaginal applicator set	x		
Gynecology	101.001	Vaginal CT/MR applicator set		x	
Gynecology	110.750	Vaginal CT/MR Multi Channel applicator set		x	
Gynecology	189.018	Vaginal mold applicator set	x		
Gynecology	not applicable	Advanced Gynecological Applicator - Venezia		x	
Gynecology	189.569/699/792	Vienna Ring CT/MR applicator sets		x	
Breast	110.518	Breast CT/MR applicator set	Depending on use of OncoSmart or		
Breast	189.006	Kuske breast applicator set			
Breast	various	OncoSmart catheter sets			
Prostate, rectum & bladder	110.564/565/566/567	Luneray applicator set			
Prostate, rectum & bladder	189.011	Intracavitary Mold applicator set			
Prostate, rectum & bladder	083.570/571, 089.055/056	MUPIT applicator sets			
Prostate, rectum & bladder	137.280	Martinez prostate template	Depending on use of type of needles		
Prostate, rectum & bladder	189.069	Prostate stepper template set 5F			
Prostate, rectum & bladder	189.070	Prostate stepper template set 6F			
Skin	089.095	Freiburg Flap applicator set			
Skin	085.040	Leipzig applicator set	x		
Skin	189.701	Valencia Skin applicator set	x		
Head & Neck	045.410	Pipard tongue template set	Depending on use of flexible implant		
Head & Neck	089.068	Rotterdam nasopharyngeal Mold			
Needles	various	Titanium needle sets (Trocac Point)			
Needles	various	Stainless steel needles (Interstitial/Trocac point/Bevel point)			
Needles	various	ProGuide needles 5F			
Needles	various	ProGuide needles, 6F			
Flexible implant tubes	various	Flexible implant tubes, 5F			
Flexible implant tubes	various	Flexible implant tube set, 6F			

Note: bronchus & esophagus applicator sets include adapters to insert the applicator directly in the indexer



## ABOUT ELEKTA

Elekta's purpose is to invent and develop effective solutions for the treatment of cancer and brain disorders. Our goal is to help our customers deliver the best care for every patient. Our oncology and neurosurgery tools and treatment planning systems are used in more than 6,000 hospitals worldwide. They help treat over 100,000 patients every day. The company was founded in 1974 by Professor Lars Leksell, a physician. Today, with its headquarters in Stockholm, Sweden, Elekta employs around 4,000 people in more than 30 offices across 24 countries. The company is listed on NASDAQ OMX Stockholm..



### Corporate Head Office:

**Elekta AB (publ)**  
Box 7593, SE-103 93 Stockholm, Sweden  
Tel +46 8 587 254 00  
Fax +46 8 587 255 00  
info@elekta.com

### Regional Sales, Marketing and Service:

#### North America

Tel +1 770 300 9725  
Fax +1 770 448 6338  
info.america@elekta.com

#### Europe, Middle East, Africa, Eastern Europe, Latin America

Tel +46 8 587 254 00  
Fax +46 8 587 255 00  
info.europe@elekta.com

#### Asia Pacific

Tel +852 2891 2208  
Fax +852 2575 7133  
info.asia@elekta.com





# BRACHYTHERAPY APPLICATOR AND ACCESSORY GUIDE