# MRI Devices

**Instruments for Interventional Magnetic Resonanz Imaging (MRI)**

SOMATEX®
MEDICAL TECHNOLOGIES GMBH

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# MRI Devices

## Optimal visibility and maximum strength

Magnetic resonance imaging (MRI) is a future oriented imaging procedure in modern diagnostics and minimal invasive therapy. Its advantages include better visualization of several organs and extremely high detail recognition – without harmful ionizing radiation. Additionally MRI is adopted for minimally invasive treatments of patients. Instruments for MRI have to meet a very high standard.

SOMATEX® has been active for years in the development of instruments made from non-magnetic material for different applications. In accordance with the high demands and new developments in MRI, our products are continually improved or newly designed.

The SOMATEX® MRI Instruments find the optimal balance of MRI visibility, artefact management, and material strength. Thanks to special design and the use of new high quality materials, SOMATEX® is setting high standards in the MRI sector: Minimum artefacts, optimal visibility, and high strength make the SOMATEX® MRI Instruments safe and reliable.

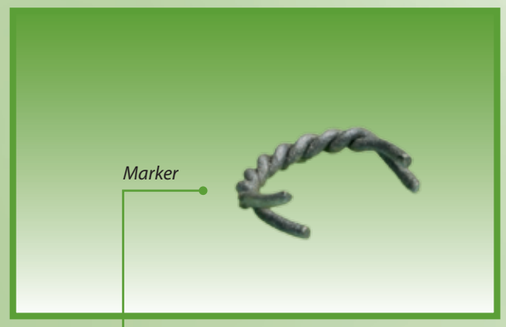
**MRI Devices at a glance**

- Tumark® MRI
- MRI Tuloc®
- MRI DUO-System
- MRI Biopsy-Handy
- MRI Coaxial Puncture Needle
- MRI Chiba Needle

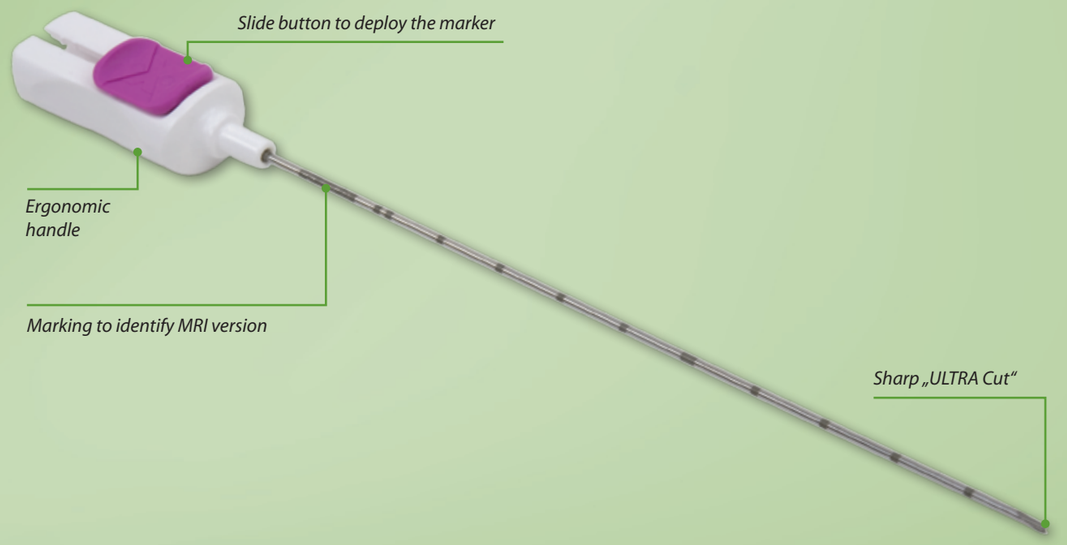
# Tumark® MRI

## High visibility

The **Tumark® MRI** allows for precise tissue marking under MRI control. The Tumark® MRI is adapted in shape and size for the application within the MRI gantry. The placement of the marker can easily be performed inside the MRI. The ergonomic handle with slide button furthermore allows for easy, single-handed deployment. The new 3D marker design enables firm anchorage in the tissue with optimal visibility in all positions. Approved 3D marker design ensures firm anchoring in the tissue with optimal visibility in all positions. For the follow-up, the marker will be clearly visible in Magnetic Resonance, ultrasound, stereotaxy or X-Ray.




**Improved visibility for ultrasound**




**Application**

- Marking after removal of tumor
- Marking of suspicious lesions
- Tumor marking during neoadjuvant chemotherapy
- For marking the biopsy site
- Orientation for planning radiation therapy

**Advantages at a glance**

- Shape and size adapted for the application within the MRI gantry
- 3D marker design ensures firm anchoring in the tissue
- Optimal visibility in all positions
- Cannula is MRI compatible
- Marker is MRI compatible up to 3 Tesla
- Marker is approved as implantable material (Nitinol)
- Ergonomic handle for single-handed operation
- The marker is supplied preloaded

| Product | Order No. | Cannula size |
|---|---|---|
| Tumark® MRI | 601 570 | 18G/1,2 x 120 mm |

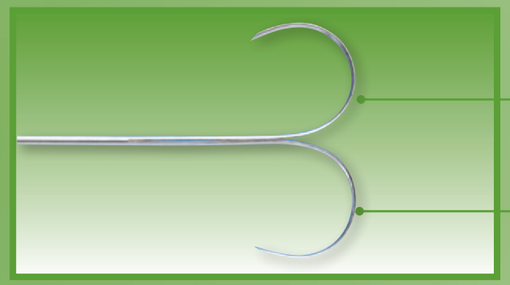
# MRI Tuloc®
## Stability

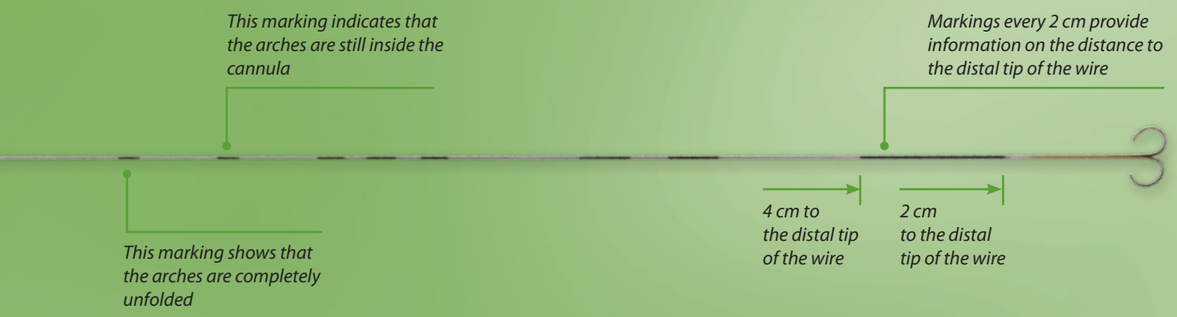
The MRI Tuloc® Localization System serves for the pre-operative marking of suspicious tissue under MRI control. Thanks to increased pressure stability and an extremely sharp bevelling of the cannula and the wire tips, MRI Tuloc® even allows for an easy and safe penetration of solid tumor tissue. If a repositioning is required, the wire can be easily pulled back into the cannula for a correction of the position. The wire of the Tuloc® has markings for secure location for the user. Two proximal markings indicate whether the arches of the wire are inside or outside of the cannula. The distal markings at distances of 2 cm give information on the distance to the tumor.

**Advantages at a glance**

- Wire and cannula are MRI compatible
- Repositionable localization wire
- High rigidity and stability of the cannula
- Monofilament wire provides for best possible form and pressure stability
- Distal depth markings show information on the distance to the tumor
- Extreme sharpness for precise and atraumatic puncture
- Optimal visibility in the MRI and good palpability during the operation

*Beveled arches facilitate penetration*



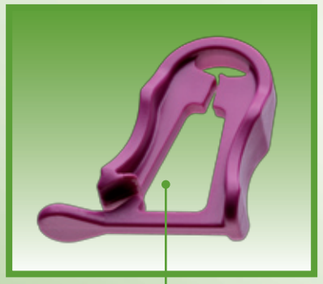




**MRI Tuloc®**

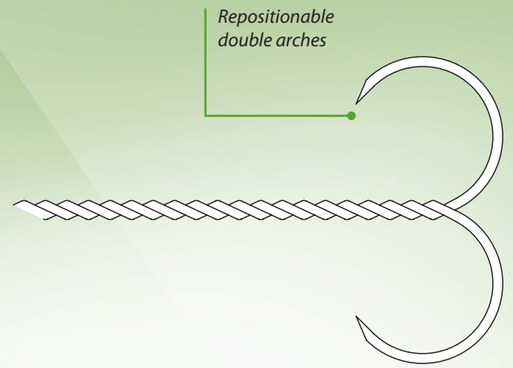
| Order No. | Gauge | Diameter | Length |
|---|---|---|---|
| 601 649 | 20 G | 0,95 mm | 90 mm |
| 601 651 | 20 G | 0,95 mm | 120 mm |

# MRI Duo-System
## Flexible

The SOMATEX® **MRI DUO System** is a correctable localization system for the pre-operative marking of non-palpable, suspicious mammary lesions under MRI control. If a repositioning is required, the localization wire can be easily pulled back into the cannula and reused for a correction of the position.

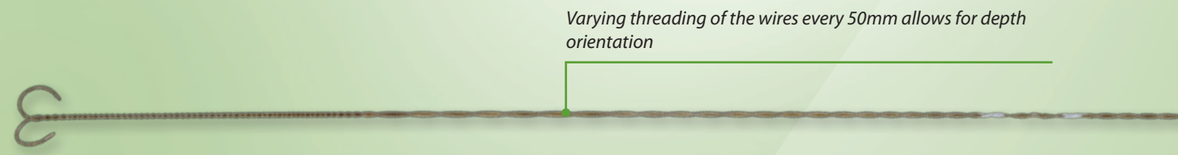


*Fixation piece*

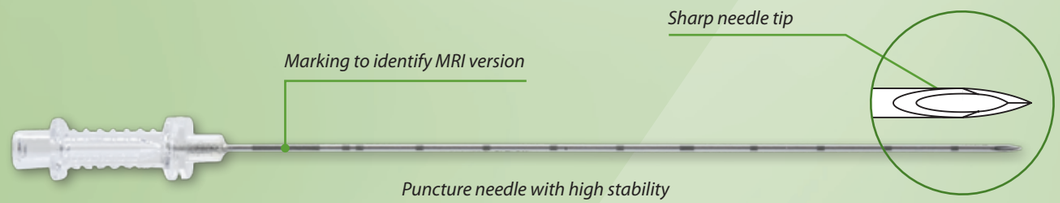



**Advantages at a glance**

- Wire and cannula are MRI compatible
- High rigidity and stability of the cannula
- Correctable and flexible marking wire
- Sharp wire tips for firm lesions




*Repositionable and flexible localization wire*




*Puncture needle with high stability*

**MRI Duo-System**

| Order No. | Gauge | Diameter | Length |
|---|---|---|---|
| 601 607 | 20 G | 0,95 mm | 50 mm |
| 601 609 | 20 G | 0,95 mm | 90 mm |
| 601 611 | 20 G | 0,95 mm | 120 mm |

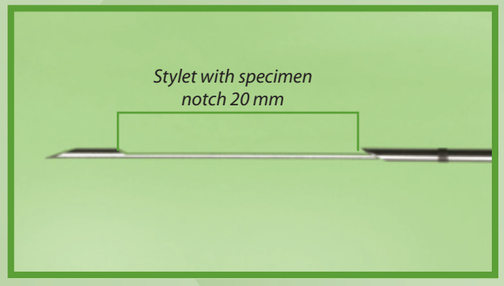
# MRI Biopsy Handy
## Lightweight

SOMATEX® **MRI Biospy Handy** is a semi-automatic device for obtaining histologically valuable tissue material from a variety of soft tissues and organs. The novel material and special alloy allow for optimal visibility in the MRI and therewith the exact positioning of the specimen notch. The tissue material is separated by means of an extremely fast forward movement of the exterior cutting cannula. When complemented with the MRI coaxial puncture needle, one Biopsy Handy can be reused for multiple tissue sampling.

**MRI Biopsy Handy**

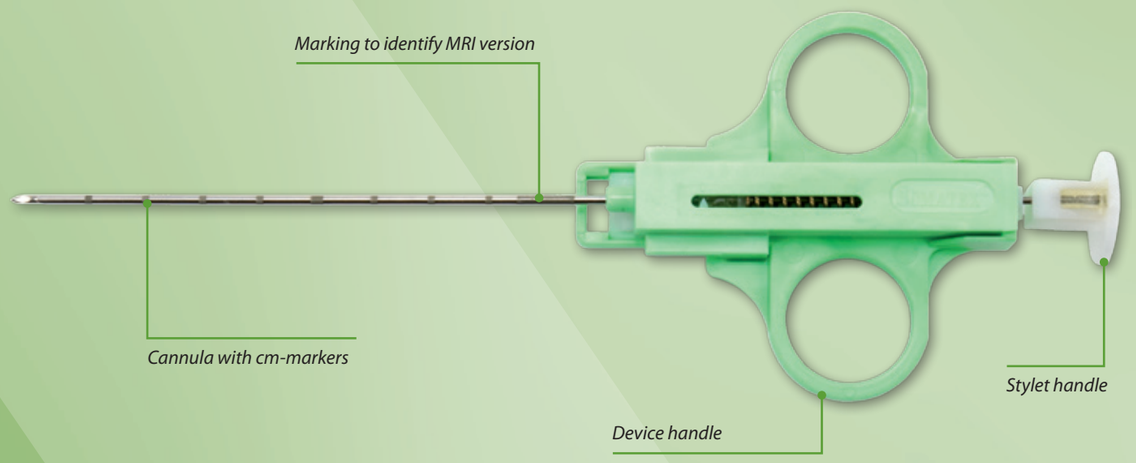
| Order No. | Gauge | Diameter | Length |
|---|---|---|---|
| 603 108 | 18 G | 1,20 mm | 100 mm |
| 603 110 | 18 G | 1,20 mm | 150 mm |
| 603 112 | 18 G | 1,20 mm | 200 mm |
| 603 118 | 16 G | 1,60 mm | 100 mm |
| 603 120 | 16 G | 1,60 mm | 150 mm |
| 603 122 | 16 G | 1,60 mm | 200 mm |
| 603 128 | 14 G | 2,00 mm | 100 mm |
| 603 130 | 14 G | 2,00 mm | 150 mm |
| 603 132 | 14 G | 2,00 mm | 200 mm |

Matching MRI coaxial puncture needle




**Advantages at a glance**

- MRI compatible
- High strength and stability
- Optimal visibility in the MRI
- Easy handling with one hand
- Light weight
- Sharp cut of stylet and cannula tip
- Optionally available with coaxial sheath




**MRI Coaxial Puncture Needle**

| Order No. | Gauge | Diameter | Length |
|---|---|---|---|
| 601 400 | 18 G | 1,20 mm | 100 mm |
| 601 405 | 18 G | 1,20 mm | 150 mm |
| 601 408 | 16 G | 1,60 mm | 45 mm |
| 601 410 | 16 G | 1,60 mm | 95 mm |
| 601 412 | 16 G | 1,60 mm | 145 mm |
| 601 418 | 15 G | 2,00 mm | 43 mm |
| 601 420 | 15 G | 2,00 mm | 93 mm |
| 601 422 | 15 G | 2,00 mm | 143 mm |
| 601 428 | 13 G | 2,40 mm | 41 mm |
| 601 430 | 13 G | 2,40 mm | 91 mm |
| 601 432 | 13 G | 2,40 mm | 141 mm |

Matching MRI Biopsy-Handy

**Application**

- Initial puncture
- Coaxial cannula for biopsy instruments
- Guide needle for catheter and guide wires
- Injection and drainage cannula

# MRI Coaxial Puncture Needle
## One for all

The **MRI coaxial puncture needles** are multipurpose cannulas and can be used for initial punctures, as sheaths to guide wires, and as puncture sheaths for both the SOMATEX® MRI Biopsy Handy and the standard version Biopsy Handy. The novel material, special alloy, and particularly sharp trocar tip allow for optimal visibility in the magnetic resonance imaging, at maximum stability, and minimum puncture trauma.

# MRI Chiba Needle
## Universal

The SOMATEX® **MRI Chiba Needle** is a multipurpose cannula. It is used for the injection of drugs and for fine needle aspiration biopsies. The novel material, special alloy, and the particularly sharp ultra cut allow for optimal visibility in the MRI, at maximum stability, and minimal puncture trauma.

**Application**

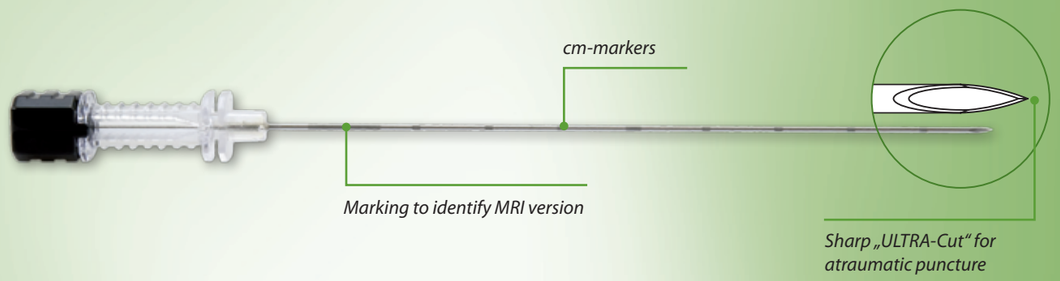
- Pain therapy
- Fine needle aspiration biopsy

**Advantages at a glance**

- MRI compatible
- High rigidity and stability
- Minimal puncture trauma due to particularly Sharp ultra cuts
- Depth stopper

**MRI Chiba Needle**

| Order No. | Gauge | Diameter | Length |
|---|---|---|---|
| 601 250 | 22 G | 0,70 mm | 100 mm |
| 601 255 | 22 G | 0,70 mm | 150 mm |
| 601 260 | 20 G | 0,95 mm | 100 mm |
| 601 265 | 20 G | 0,95 mm | 150 mm |



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