inomed

Intraoperative Neuromonitoring
Functional Neurosurgery
Pain Treatment
Neurological Diagnostics

Stereotactic Systems

›› APPLICATIONS

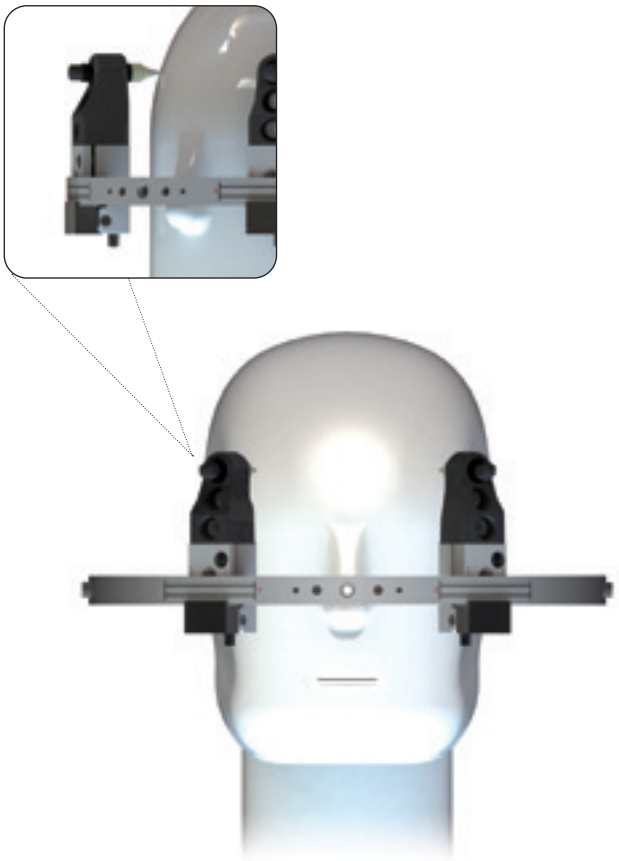
Deep Brain Stimulation
Stereotactic Biopsies
Stereotactic EEG



Superior medical technology: inomed functional neurosurgery products. High quality precision products from inomed ensure that tissue trauma is significantly reduced during sensitive surgical procedures. Using inomed products, hospitals and clinics are able to deliver the gold standard treatment in the field of Functional Neurosurgery.

1 | Fixation

› Stereotactic ring



inomed offers a complete system approach, including a wide range of fixation options allowing flexibility and precision in mounting solutions.

A successful stereotactic procedure requires a solid foundation. The inomed stereotactic ring provides the foundation for all the precision components required to perform minimally invasive surgery.

>> Mayfield clamp



The inomed Mayfield clamp connects the stereotactic system to the operating table and ensures a safe, robust fixation. Due to the standardized Mayfield attachment, every operating table with a Mayfield clamp can use an inomed stereotactic system.

>> Quick and safe assembly



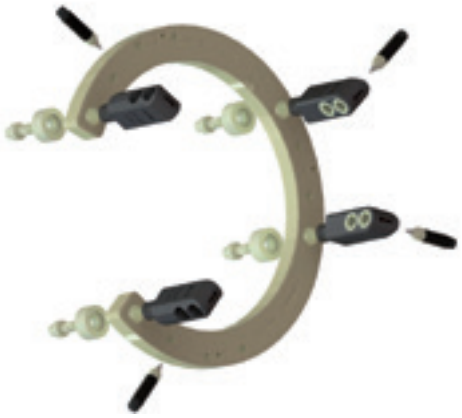
Range of different lengths of OptiPins guarantees a suitable fixation for all cranium sizes.



The post pones used for the fixation of the titanium ring offer a flexible position for the OptiPins.



The post pones used for the fixation at the ceramic ring are made entirely of carbon fiber and are therefore completely artifact-free for MRI and CT scans.



German high-precision engineering



>> Ceramic ring

The inomed ceramic ring guarantees zero interference and zero artifact for the MRI. The half-open ceramic ring minimizes the stress for the patient during an awake-surgical procedure. The patients visual field is not interrupted by the ring. This helps reduce patient anxiety, furthermore a respiratory mask can be applied without restrictions.

>> Titanium ring

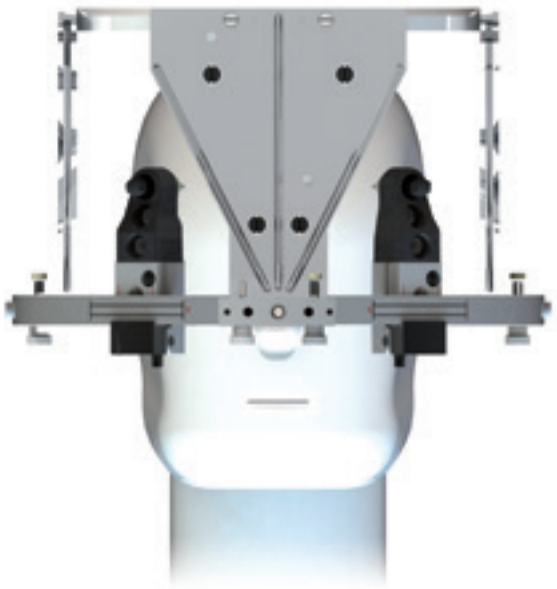
The titanium stereotactic ring offers an ideal balance between stability and lightweight construction and the ring is artifact-free in the MRI.
Compared to the ceramic ring, the titanium ring is significantly lighter in weight.



Successful stereotactic procedures are guaranteed with precise registration. Localizers enable the geometric transformation of tomographic image data from the two-dimensional coordinate system of a medical image into the three-dimensional coordinate system of the stereotactic frame.

2 | Stereotactic registration

› Localization set



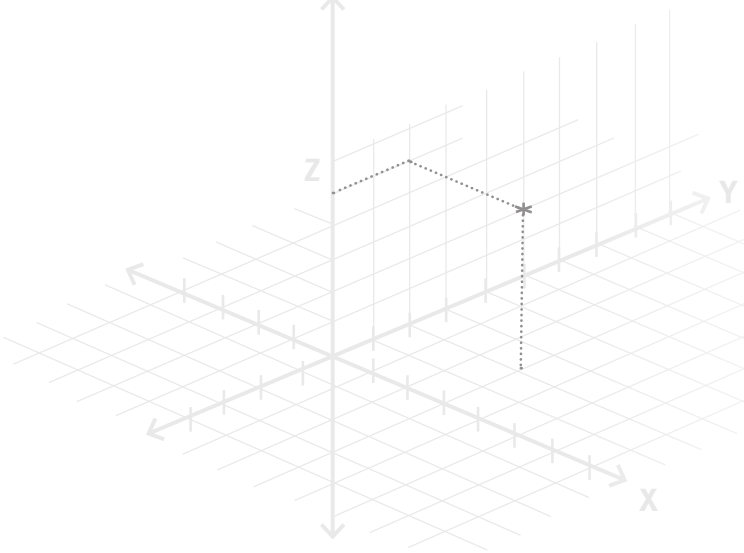


To ensure precise calculation of the target coordinates, reliable localization systems are necessary.

Due to the design of the inomed localization set, bending of the plates is avoided and a credible and constant quality of the image data can be guaranteed. The new generation of the localization set is designed for consistency in CT and MRI applications.
The modular design supports temporary removal of individual plates during complex procedures.

The localization set is available for X-ray, CT and MRI applications. It is completely artifact-free.

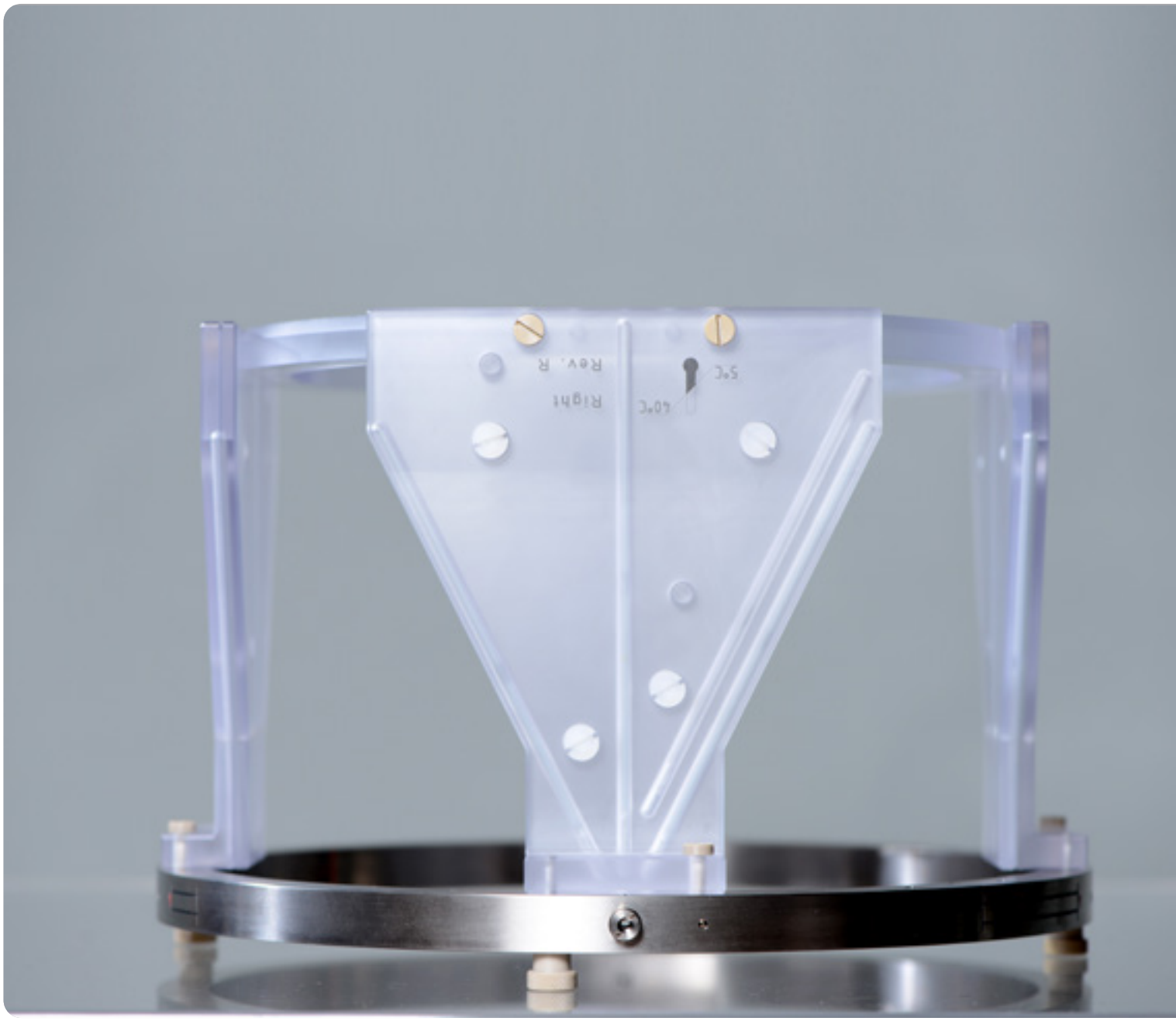




X- value

Y- value

Z- value



Functional neurosurgery does not tolerate errors. The use of target point simulation means you do not have to rely on accuracy alone, but you can control for inaccuracies in the settings or damage to the instruments.

3 | Review

› Target point simulator



X value



Y value



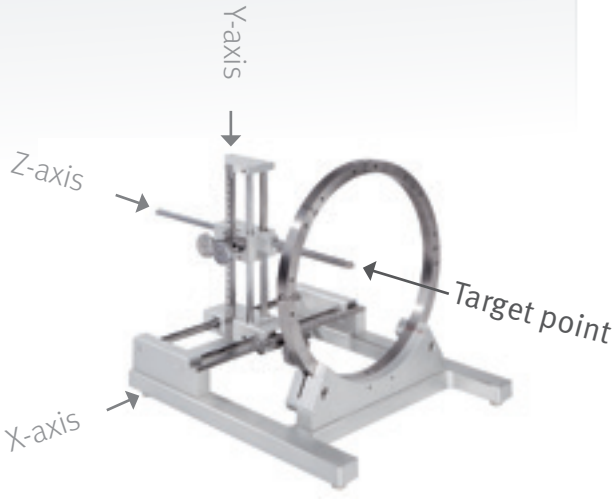
Z value





Control is better than trust

The simulation of the stereotactic procedure with the inomed target point simulator enables a clinician to verify the method and instruments with an accurate representation of the target point. Surgical planning with the iPS planning software provides coordinates that can accurately and easily be transferred onto the target point simulator. The ability to rehearse the procedure with the target point simulator provides verification and the highest levels of patient safety.





RM system

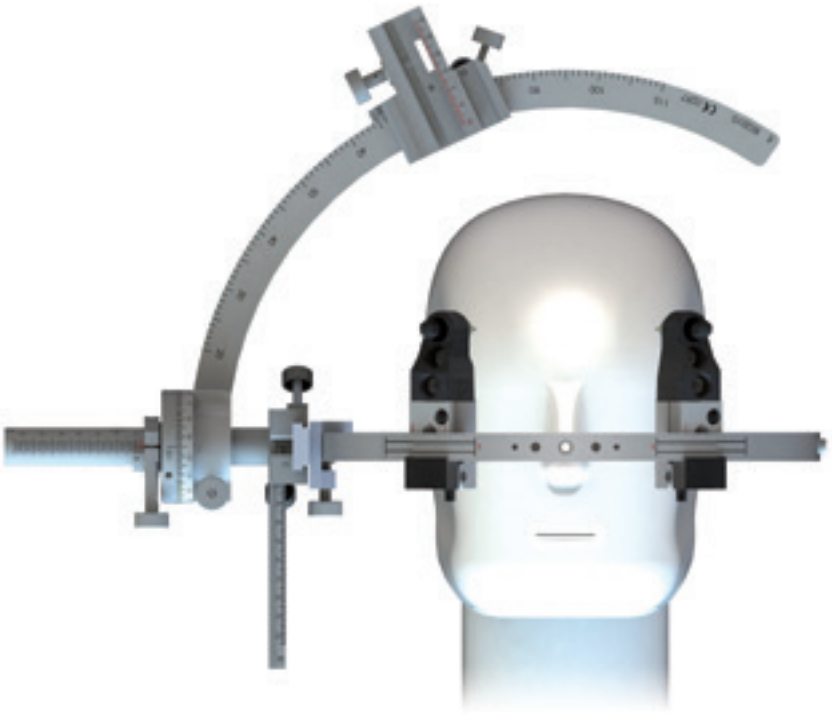


>> High stability and precision

The RM system offers a 3-point-fixation based on the polar coordinate system. Professor Traugott Riechert and Professor Fritz Mundinger (Freiburg) developed a precision mechanical system with an aiming bow that can be used simultaneously as a probe holder. A large variety of accessories create numerous possibilities and permit universal application in the field of stereotaxy.

The inomed RM system is one of the most precise target point systems and was developed especially for stereotactic surgeries in the field of functional neurosurgery. The equipment for brachytherapy can be adapted easily.

ZD system



The stereotactic system named after Zamorano-Dujovny (ZD system) is an easy-to-handle, stable and precision engineered product. This type of a single point-fixation device is proven worldwide in numerous neurosurgical centers.

Based on the center-of-arc principle, the method ensures nearly unlimited access to all intracranial regions – and free choice of the trepanation point.

Depending on the surgeon's needs and preference, inomed's RM and ZD systems are the preferred choices for biopsy and deep brain stimulation. inomed also offers a MicroDrive and accessories for use with RM and ZD frames. The inomed MicroDrive is compatible with most other stereotactic frames on the market.





>> Freedom in mounting – the center-of-arc

Up to 8 different mounting possibilities on the ring offer a maximum variability for the selection of the target point and access point.



>> Easy handling via one-point-fixation

The one-point-fixation feature enables the surgeon to transition quickly between target point review and surgery.

High-precision engineering made in Germany. inomed products are engineered, manufactured and serviced on German quality standarts of high-precision products.

5 | Product overview

›› Patients fixation and accessories

	Art. No.	Description
	803 004	**Titanium headring unit** CT/MR compatible, consisting of: 4 artifact-free posts each in size M 46.5 mm & L 91.5 mm; 4 carrier for head fixing posts; 4 fixing pins each in 40 mm, 50 mm, 60 mm and 70 mm; torque wrench; sterilisation tray
	803 940	**Sterilisation tray** for titanium headring unit
	803 005	**Ceramic headring unit** CT/MR compatible, consisting of: 4 carbon fibre head fixing posts, locking bow, torque wrench, 4 fixing pins 40 mm, 50 mm and 60 mm, sterilisation tray
	803 930	**Sterilisation tray** for ceramic headring unit

›› Rings

Art. No.	Description
803 110	**Titanium headring**
803 106	**Ceramic headring**
803 111	**Simulatorring for titanium**
803 107	**Simulatorring for ceramic**

›› Pins & fixing posts

	Art. No.	Description
	803 361	**Opti pin fixing pin 30 mm**
	803 362	**Opti pin fixing pin 40 mm**
	803 363	**Opti pin fixing pin 50 mm**
	803 364	**Opti pin fixing pin 60 mm**
	803 365	**Opti pin fixing pin 70 mm**
	803 222	**Head fixing posts S – 20 mm**
	803 223	**Head fixing posts M – 46.5 mm**
	803 224	**Head fixing posts L – 76.5 mm**
	803 225	**Head fixing posts XL – 91.5 mm**
	803 226	**Carrier for head fixing posts**
	803 230	**CFK fixing posts for ceramic headring**



›› Riechert-Mundinger system (RM)

	Art. No.	Description
	801 000	**RM stereotaxy system** consisting of: RM aiming bow with instrument carrier, depth control, depth control stop, vertical arc 105° and 85°, vertical arc support, probe holder, dove tail guide, lens NV and NS, 2 u-shaped base, sterilisation tray
	803 960	**Sterilisation tray for RM**

›› Zamorano-Dujovny system (ZD)

	Art. No.	Description
	802 010	**ZD stereotaxy system** consisting of: ZD aiming bow with instrument carrier and micrometer advance, instrument holder for 2-3 mm and 4-8 mm probes, sterilisation tray
	803 950	**Sterilisation tray for ZD**
	802 020	**ZD fixing rail for ceramic ring**

›› Accessories

	Art. No.	Description
	809 101	**Headring holder for Mayfield/ Kees**
	803 525	**Hexagon socket wrench**
	803 405	**Socket wrench**
	803 340	**Torque wrench 70 Ncm**
	809 200	**Universal CT holder**

›› Target point simulator

Art. No.	Description
803 400	**Target point simulator for titanium headring** consisting of: aluminium simulator headring, target point simulator for X-,Y-,Z-axes, sterilisation box
803 430	**Target point simulator for ceramic headring** consisting of: aluminium simulator headring, target point simulator for X-,Y-,Z-axes, sterilisation box
803 410	**RM test needle for target point simulator**
803 420	**ZD test needle for target point simulator**

›› Localization

Art. No.	Description
809 050	**CT/MR Localisation Set** for titanium headring, Rev. R
809 045	**CT/MR Localisation Set** for ceramic headring, Rev. U

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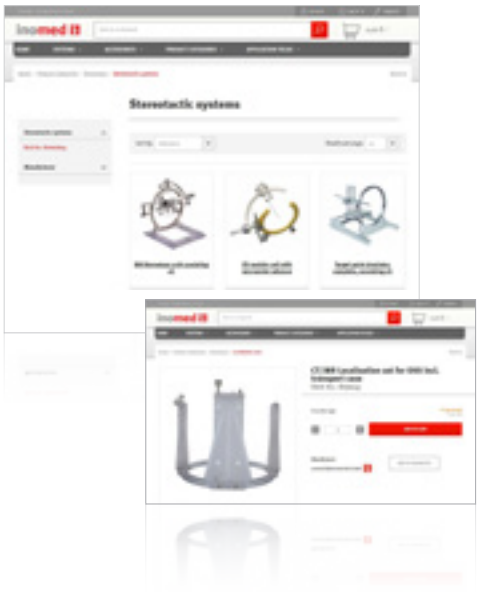
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