

SUSy – Stereotactic Ultralight System

EXPERIENCE VERSATILITY AND INNOVATION:
FRAME THE FUTURE OF STEREOTAXY



SUSy 

Stereotactic Ultralight System

VERSATILE in use
EASY to handle

Stereotactic ring

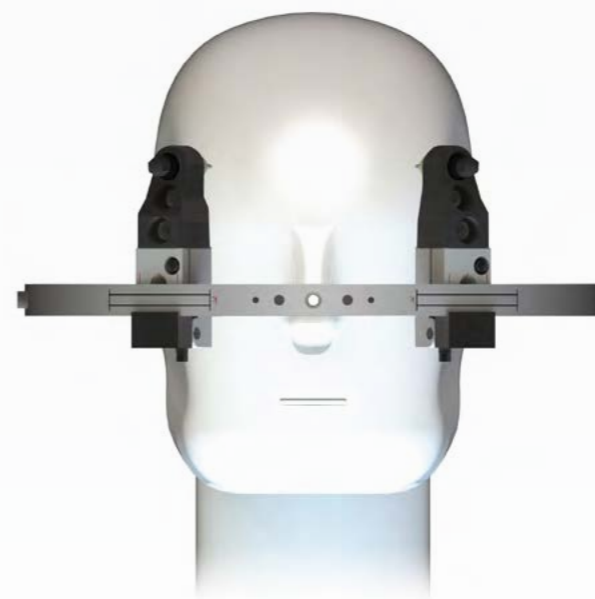
A successful stereotactic procedure requires a solid foundation.

The stereotactic ring provides the foundation for the localisation plates during imaging and for mounting of the SUSy aiming bow.



Superior medical technology: inomed functional neurosurgery products.

With its round shape the stereotactic ring offers individual mounting of the fixing posts and high flexibility in mounting the stereotactic arc while maintaining maximum stability.



Titanium ring

- > Closed ring increases flexibility through different mounting positions of the head fixing posts
- > Standard for CT imaging
- > Four different lengths of head fixing posts



Ceramic ring

- > The open face design ensures that the airways are accessible for intubation and the patient's field of vision
- > Increases patient comfort
- > Ceramic guarantees absolute freedom from artefacts in MRI



Head ring holder

- > Solid adaptation to the operating table
- > Standardised starburst interface (for skull clamps)
- > Enables AP mounting

OptiPins

An assortment of different lengths of **OptiPins** guarantees a suitable fixation for all cranium sizes.

Head fixing posts

The **head fixing posts** for the fixation of the titanium ring offer a flexible position for the OptiPins thanks to their different lengths and rotation options.

CFRP head fixing posts

The head fixing posts used for the fixation at the ceramic ring are made entirely of carbon fibre and were developed for artefact-free MRI and CT scans.

Positioning aid

- › Adjustment screws for easy and precise alignment
- › Fast ring mounting saves time
- › Allows ring mounting by a single person



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Localisation set

The basis for precise stereotactic procedures is preoperative planning by means of stereotactically registered image sequences.



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

- > Uncompromising design prevents any movement of the localisation plates
- > Universal application for CT and MRI
- > Four localisation plates for maximum precision in registration (can be removed individually)
- > User-friendly, no need to refill the plates
- > Easy handling due to intuitive attachment to the stereotactic ring



Target point simulator

Functional neurosurgery does not tolerate inaccuracies.

Coordinate settings or trajectories that deviate from the plan as previously incalculable risks can now be verified.



Precision in the μ range



- > The possibility to display the trajectory on the skull prior to the surgical intervention offers **maximum safety**
- > Patient-specific validation of the target point
- > Identifies inaccurate instruments before they are used
- > For training and self-control
- > Autoclavable



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VERSATILE in use
EASY to handle

SUSy – Stereotactic Ultralight **Sy**stem

**Experience versatility and innovation:
Shape the future of stereotaxy**

inomed continues to be convinced of the advantages and benefits of frame-based stereotactic neurosurgery and is committed to its further development.

To follow our conviction, we have invested in the future of stereotaxy and redesigned the most important part of our portfolio – our stereotactic arc.

Our ultimate goal: support of the entire spectrum of stereotactic procedures.

Our new SUSy – Stereotactic Ultralight System combines the strengths of our previous stereotactic arcs and incorporates innovations based on clinical opinion. The innovative material results in a lightweight system that opens up new possibilities for MRI-based workflows.

Developed for the highest demands

Carbon fibre reinforced PEEK

STABILITY

Originally developed for space travel, the diamond-milled new material of the stereotactic frame meets the highest stability requirements

OPTIMISED RESISTANCE

- › PEEK is resistant to chemicals during cleaning
- › Resistant to high temperatures and X-rays
- › Artefact-free and transparent for CT and X-ray
- › Non-metallic and therefore suitable for the MRI environment

DURABLE & FUNCTIONAL

High wear resistance with optimum sliding properties

ULTRALIGHT WEIGHT

The weight of less than 2 kg increases handling and patient comfort



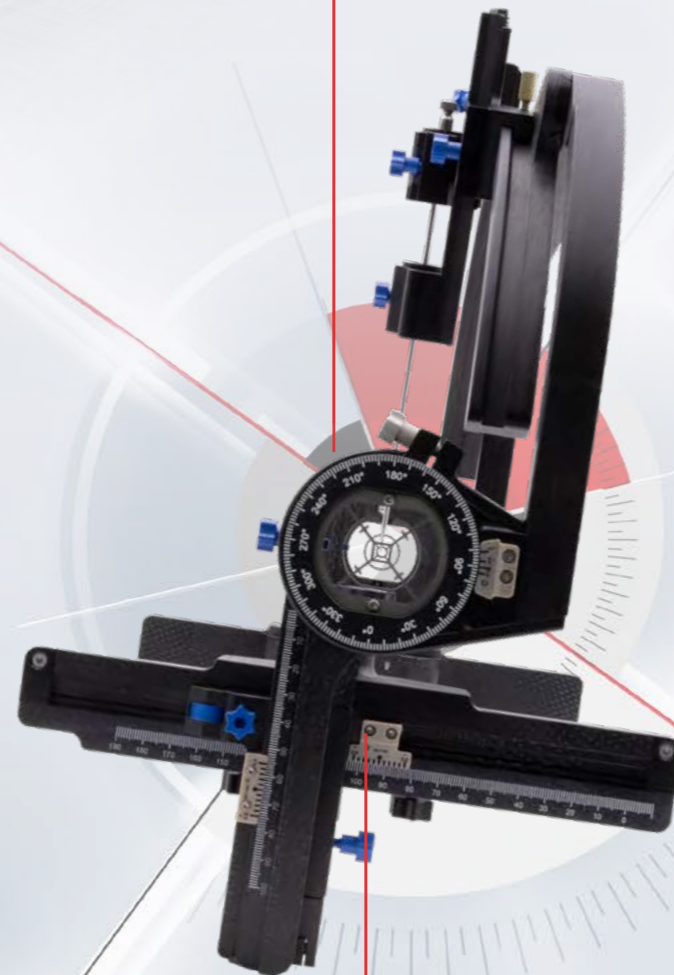
Working length 190 mm

Intuitive workflow

- › No mounting tool necessary
- › Fine adjustment by means of silicone rolls
- › Drumstop: Easy folding out and back of the arc into the surgical field

Center-of-arc Freedom in the trajectory

- › Cartesian coordinates a, b, c and angles d and e
- › Four different mounting options on the ring



Crosshairs for intraoperative position control



Precision

- › Vernier allows setting accuracy of 0.1 mm



Two-point fixation for maximum stability

Two-piece ring adaptation maintains sterile barrier with multiple mounting

Versatile in use

Innovative in application based on clinical opinion.

A large portfolio of accessories opens up countless possibilities and universal use in modern stereotaxy.



FUNCTIONAL NEUROSURGERY

- › Implantation of DBS electrodes and microelectrode recording
- › Radiofrequency thermolesion
- › Placement of catheters

STEREOTACTIC EEG (sEEG)

- › Epilepsy diagnostics

ONCOLOGICAL NEUROSURGERY

- › Diagnosis – Stereotactic biopsy
- › Therapy – Stereotactic brachytherapy

Deep brain stimulation



In deep brain stimulation (DBS), electrodes are implanted in specific areas of the brain to treat primarily movement disorders with electrical impulses. The target areas are very small structures, which is why these interventions require the highest precision.

The inomed MicroDrive with a resolution of 50 µm and tactile feedback with each rotation has been specially developed to meet the demands.

The inomed MER system for microelectrode recording and test stimulation completes the portfolio for deep brain stimulation.



Biopsy



A biopsy is performed when surgical resection is not safely feasible, e.g. due to the location of the tumour or the impaired clinical condition of the patient.

Interventions in the posterior cranial fossa are particularly difficult trajectories to plan due to the special access. The perfect interaction of the head ring unit and SUSy offers maximum flexibility to plan these trajectories collision-free.

inomed offers a comprehensive range of sophisticated biopsy instruments for intraoperative stereotaxy.



Stereo-EEG (sEEG)

The recording of EEG signals with stereotactically placed depth electrodes is used for the diagnosis of drug-resistant epilepsy. For this purpose, mainly lateral trajectories are chosen. The AP mounting enables these trajectories to be carried out unconditionally and safely.



Online ordering tool for FNS accessories

Please visit our webshop to get an overview of our instruments for functional neurosurgery.

We look forward to receiving your order:

shop.inomed.com

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www.inomed.com



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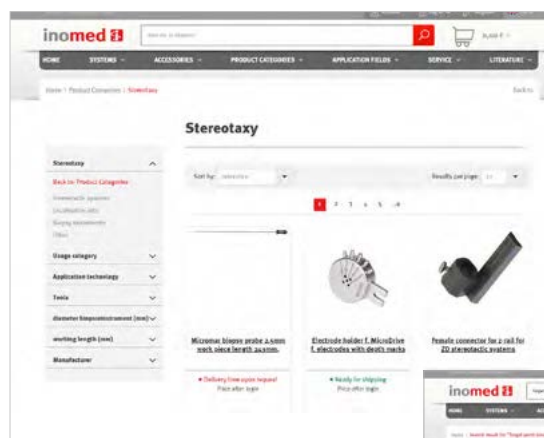
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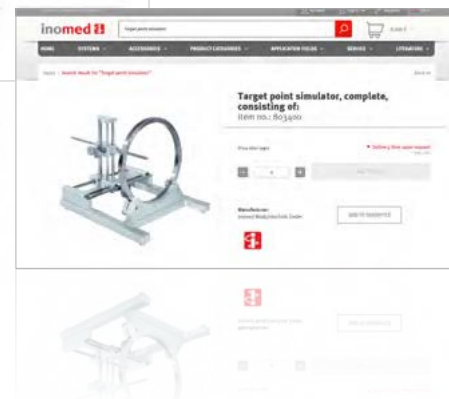


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