

neuromate® Gen III stereotactic robotkey features



About the neuromate Gen III stereotactic robot

Designed specifically for neurosurgery, the *neuromate* robot can be used for a range of stereotactic procedures, including stereoelectroencephalography (SEEG), deep brain stimulation (DBS) and biopsy. The *neuromate* robot has both FDA clearance for sale in the USA and CE mark. Systems are installed in several countries worldwide. Before the installation of a *neuromate* system, our engineering team will evaluate your surgical workflows and, wherever possible, provide solutions to ensure optimal integration into your method of surgery. We also offer a strong international support team who can provide regular services and training to help keep operations running smoothly.

Surgical applications

- · Stereotactic neurosurgery procedures
 - · DBS, SEEG, biopsy;
 - · Research and development applications, including investigational intraparenchymal drug delivery

Renishaw Healthcare Inc.

1001 Wesemann Drive, West Dundee, Illinois, United States,

IL 60118

T +1 847 286 9953

F +1 847 286 9974 E usa@renishaw.com

www.renishaw.com/neuro

apply innovation™

System benefits

- · Complete procedure solution
 - · Procedure specific modules / tools
 - · Comprehensive surgical planning
 - · Integrates with intraoperative imagine workflows
 - · Frame-based patient registration
- · Significant time saving when implanting multiple trajectories
- · Compact, easy to manoeuvre and easy to clean
- · Designed for quick parts replacement
- · Quick to set up and operate
- · On-board system diagnostics
- Customisable
 - Dimensions
 - Frame adaptors
 - · Imaging modalities
- · Tool holders for standard or custom tools
- · Strong international clinical support team
- Superior CT/MRI fusion with neuroinspire™ surgical planning software¹. Please see additional *neuroinspire* key features document.

Safety features

- Used in over 10,000 procedures²
- · Anti-collision system
- · Constant accuracy checking with redundant encoders
- · Safety line constantly monitoring the status of mechanical and electrical components
- · Remote control with safety trigger
- · Non-backdrivable joints with no backlash ensure immediate, stiff mechanical locking in case of error condition or power outage
- · Full image guidance during planning and operation

As a replacement for the targeting arc of a stereotactic frame or for a tracking system, neuromate offers the following safety benefits:

- · Regular calibration ensures system remains within accuracy specifications
- · Reduced risk of invisible mechanical damage or wear (compared to a stereotactic frame arc)
- No need for error-prone writing down or setting of target co-ordinates
- · Stable mechanical attachment (compared to a stereotactic frame or clamping systems used with a navigation system)
- · Stiff tool holding



neuromate robot accessories



neuromate robot with sterlie drape



neuroinspire stereotactic planning software

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Geervarghese R, O'Gorman Tuura R, Lumsden D, et al. Stereotactic and Functional Neurosurgery. 2016; 94: 159-163

² Renishaw field service data

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