

Technická specifikace nabízeného řešení

Veřejná zakázka:

Dodávka přístroje pro intracerebrální aplikaci

Výrobce: Neurostar GmbH (<https://neurostar.de/>)

Drill & Microinjection Robot (Mouse) including Drill Autostop Function

Interconnected Automated Drill and Microinjection Robot with one arm and three motorized axes
Including Robot Stereotaxic System with Atlas Integration
Including Motorized Drill & Microinjection Module for automatic setting of drill region and injection
Drill precision of 1 μm
Option to define the time & volume of injection
Full control by the Robot Stereotaxic software (included)
Full Integrated Stereotaxic Mice Atlas, Zeroing at Lambda/Bregma
Option to upload the user's own Atlas
Correction for Tilt Errors, Individual Atlas Scaling
Intuitive Movement Control
Drill Autostop function to avoid damaging the brain tissue
Automated drilling procedure without damaging the underlying brain tissue
High accuracy positioning of Burr Hole with depth control
No tool exchange after drilling required, drill and injection are mounted simultaneously
Use of Bregma-related coordinates
Full computer controlled Microinjector and Drill
Easy injection procedure, User defined Injection Rates
Real-time atlas-based visualization of syringe tip and injection sites
Adapts to most commercially available syringes
Compatible with Microsoft Windows 10/11

Drill Automated Craniotomy Function

Automated synchronization device for cannula and drill bit

Allows automated synchronization between the drill and syringe
Optical detection of the drill bit and of the syringe needle

Smart Angle Device

- digital readout, high precision, 0.5°
- software integration
- detachable, coronal angle adjustment

Adaptor for Sagittal Angle Adjustment

Smart BregmaFinder

Dual Camera System for high resolution 3D real-time probe monitoring
Automatic, Hands-Free, Precise positioning of the Probe over landmark
Smart Add-On to the Motorized Stereotaxic with Atlas Integration

Cube3W - Remote Control for Robot Stereotaxic

Intelligent Remote Control

Neurostar Heating Pad

Heating pad with integrated closed-loop controller
Full integration in the Robot Stereotaxic control software

Real-time display of temperature, heating state, running state
High precision temperature control, resolution of 0.1°C, set range of 20-45°C
Celsius and Fahrenheit, Dimensions: 106x66 mm

Mouse Gas Anesthesia Head Holder

Non-Rupture Ear Bars (Mouse), 60° Non-Rupture tip

Adaptor probe holder

Probe Holder

