MICROMATE™

# Tomorrow's medical robot today


### BUILT FOR SAFETY

Our class I medical device **decreases user radiation and patient radiation** thanks to higher accuracy and shorter fluoroscopy time.

### SMOOTH SAILING FROM THE GET-GO

**Fast setup** with users getting proficient with the system after only a few cases - while keeping their team from making changes to the usual workflow.

### ALL-ENCOMPASSING TURNKEY SOLUTION

Micromate comprises a full-fledged portfolio that **supports most imaging modalities** and is compatible with every standard table and biopsy and ablation needles.

### SPOT-ON, EVERY TIME

Our table-mounted robot and live-imaging features grant Micromate users **full-body accuracy.**

### FAST AND ALL-AROUND

Our small robot grants the physician up close or 360° access (even inside the gantry) while **reducing intervention time.**

> **Micromate solves the four essential problems all medical robotics should tackle: ease of use, accuracy, consistency, and affordability.**

**Dr. Marco van Strijen**
St. Antonius Hospital, Netherlands

# Seamless workflow integration with no missing features

**SETUP**

Quickly mount the robot to any standard table

**GROSS POSITIONING**

Easily place the draped robot in the surgical area using the positioning arm

**FINE POSITIONING**

Remotely align the robot to the surgical plan under live imaging

**INSTRUMENT INSERTION**

Securely control the percutaneous insertion of needle or instrument of choice

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|---|---|
| **Movement Range** | 40 mm and 30° from center position<br>The position on the table can be adjusted along the table's length |
| **Clinical Accuracy*** | Average accuracy of alignment to the trajectory: 0.43 ± 0.50 mm<br>Average angular deviation to the trajectory: 0.79 ± 0.41 degrees |
| **Mechanical Accuracy**** | **Relative:** Better than 0.03 mm<br>**Absolute:** Better than 0.2 mm |
| **Maximum Load** | **Robot:** Instruments up to 2kg without interruption of motion (halt at 40N)<br>**Positioning Arm:** 5kg without slippage when fully extended |
| **Compatible Image Modalities** | Fluoroscopy, Cone-Beam CT, CT-Fluoroscopy |
| **Integration into 3rd party navigation systems** | Yes, through proprietary API |
| **Guided Instruments** | Instruments from 8-21G<br>US: cleared for instruments from 8-19G |
| **Product Classification** | EU: Class I, per the Medical Device Regulation (MDR) 2017/745<br>US: Class II, 510(k) cleared for Fluoroscopy/CBCT and *CT Navigation (*with external planning station) |

*Measured based on clinical data from Micromate™ usage in CBCT-guided percutaneous procedures.

**Measured by commanding the Targeting Platform to a determined location on free air.

INTERVENTIONAL SYSTEMS

## Stay in touch

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