

MEDICAL ROBOTICS



*Assisting you in technical procedures*

Axilum Robotics develops and commercializes robotized solutions to assist Health Care Professional with medical procedures.

The first project of Axilum Robotics is a

## robot to assist health care professionals for Transcranial Magnetic Stimulation (TMS)

In development

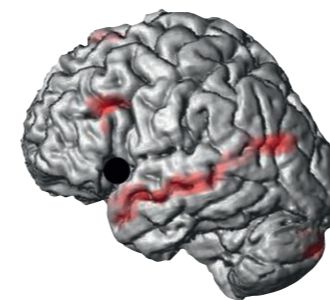
*Robot TMS Axilum Robotics:  
For your current protocols  
and those it will allow you  
to imagine...*



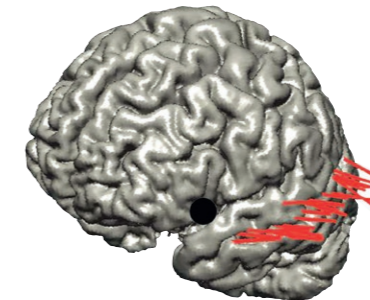
Non contractual image

## The advantages of the Axilum Robotics solution

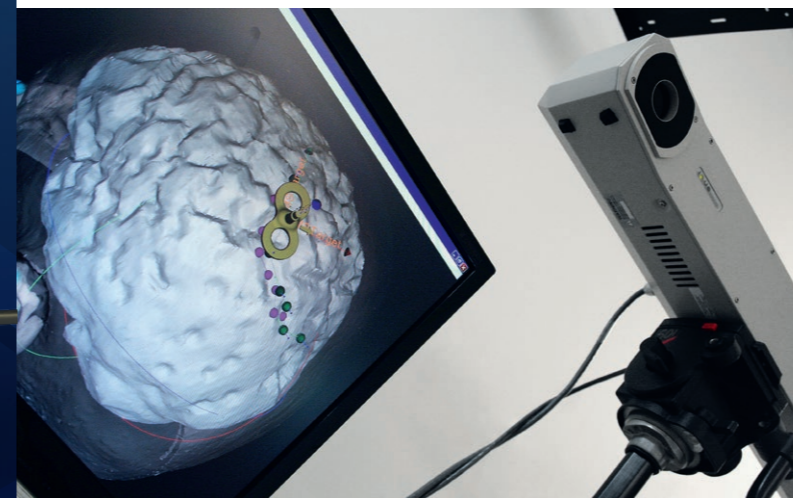
- A robot specifically developed for rTMS
- Image guided rTMS planning tool
  - Designed to fit to the TMS equipment of our partners\*
    - Pilotable by neuro-navigators (ethernet connexion)
    - Easy adaptation of cooled coils
    - \*List on request
- Accuracy and repeatability
- Compensation for patients' head motion
- Access to any stimulation area
  - Hemispheric movement
- Patient safety
  - Adapted motor's power
  - Contact force sensors
- Ensure light contact between coil and patient
- Operator safety and comfort
  - Remote coil control
- Easy performance of rTMS sessions
  - Plan session in advance
  - Autonomous execution
- Replication of recorded procedures
- Automated record keeping
- Comfortable seat electrically adjusted
- Fit to your TMS room
  - Minimum height: 1.950 mm
  - Floor: 1.523 x 769 mm



Functional MRI



TMS treatment trajectories



**Axilum Robotics was founded in 2011 in Strasbourg, France, and is a spin-off company from the medical robotic research group of LSIT (Research Unit of the University of Strasbourg, CNRS and INSA) based on a fundamental patent in medical robotics.**

**The project was an award winner at the national contest for creation of innovative technology companies organized by the French Ministry of Research in 2009 and in 2010 and has been certified through the Life Science cluster Alsace Biovalley in 2011.**

**Contacts**

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**Axilum Robotics**

Société par actions simplifiée  
au capital de 75 000 €  
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