

Axilum Robotics : A robot to assist psychiatrists

Strasbourg, France, 11 april 2011.

Axilum Robotics announce the certification of its first collaborative project called « TMS-Robot » that will be incubated through the Alsace Biovalley Life Science cluster.

The Company was created to develop and commercialize robotized solutions to assist Health Care Professional with medical procedures.

The first project of Axilum Robotics is to develop a robot to assist psychiatrists and neurologists for Transcranial Magnetic Stimulation (TMS).

TMS is a medical technique that applies painless, non invasive impulses to the brain by placing a coil on the surface of the head. TMS is used as a research tool to gain knowledge of neurophysiological and cognitive mechanisms. There are many potential therapeutic applications, particularly in psychiatric : TMS is currently under clinical evaluation in treatment-resistant major depression and auditory hallucinations of schizophrenia.

The robot developed by Axilum Robotics answers the needs of both physicians and researchers. The automatized procedure offers many advantages including precision, repeatability of TMS sessions, compensation of patient's movements, ease of use, operator safety and comfort, patient safety, access to large stimulation areas and permanent contact between the patient's head and the coil monitored by force sensors.



TMS Robot Prototype

Regarding Axilum Robotics

Axilum Robotics is the leader of a collaboration with following partners :

- The medical robotic research group of LSIIT (Research Unit of the University of Strasbourg, CNRS and INSA) from which the company was spin off based on a fundamental patent in medical robotics.
- Streb & Weil, a company with 30 years experience in development and manufacturing of complex automates machines.
- Inserm U666, a clinical research unit in pathophysiology et and cognitive psychopathology of schizophrenia at the University of Strasbourg.

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 is supported by the SEMIA incubator.

Located at IRCAD in Strasbourg, Axilum Robotics is working with its partners to transfer medical robotic technology research into a growing industry in Alsace

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