

ROSA ONE®



SCHILLER
The Art of Diagnostics



Brain



ROBOTIC ASSISTANT

FOR MINIMALLY INVASIVE NEUROSURGERY

Traditional neurosurgery is performed via a craniotomy, a maximally invasive procedure that can result in long recovery times, pain, and scarring.

ROSA ONE® Brain is a robotic solution to assist surgeons in planning and performing complex neurosurgical procedures through a small drill hole in the skull. The robotic technology enables surgeons to perform less invasive procedures than traditional craniotomies - enabling smaller incisions and potentially enhancing patient comfort.¹





INNOVATIVE

TECHNOLOGY AND FUNCTIONALITY

Pre Operative Planning

With ROSA ONE Brain, the surgical procedure begins before the surgeon enters the operating room. Creating the surgical plan pre-operatively may reduce OR time and patient anesthesia time.

Dexterity and Rigidity

ROSA ONE's arm is engineered with 6-degrees-of-freedom, allowing exceptional dexterity and flexibility to access surgical sites. Once trajectory has been set, the rigidity of the robotic arm reduces unintended movement.

Workflow Integration

ROSA ONE features haptic technology which creates a seamless interface between surgeon and technology. The robotic technology enhances the surgeon's skill, not replaces it.

Accuracy and Speed

The high accuracy provided by the robotic arm² makes ROSA ONE an ideal platform for neurosurgery—ensuring the instruments are placed in the planned target while avoiding critical structures. The speed with which the robot can move between trajectories can lead to significant time savings in multi-implant applications.³

Dual Platform

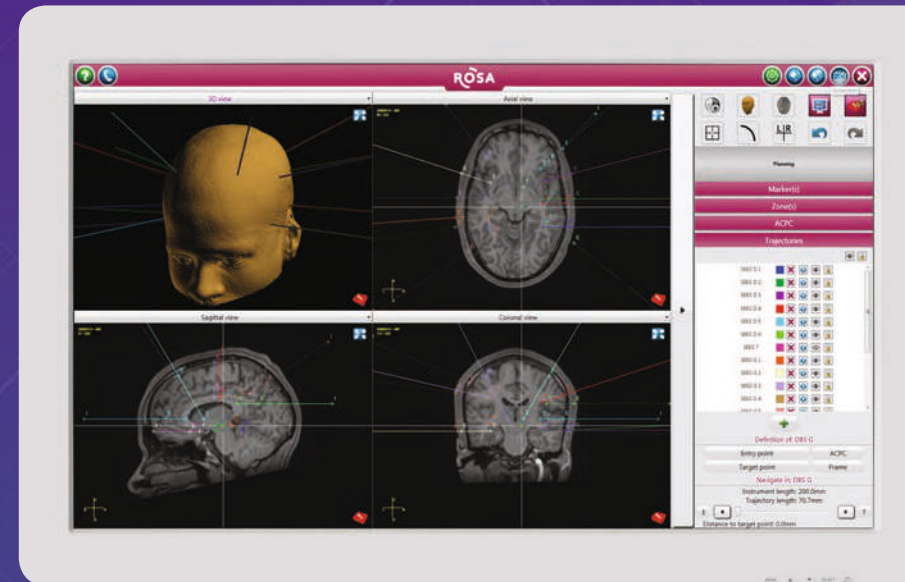
The dual function robot can increase the utilization of the robotic platform for both brain and spine surgeries – potentially decreasing technology acquisition costs and streamlining service, repair and education.

ROBOTIC

ASSISTED WORKFLOW

Step 1: Pre-Operative Planning

- Advanced planning software assists surgeons in creating detailed 3D maps of the patient's brain.
- Surgeons examine images of the brain from multiple views and use this data to develop an effective surgical strategy.
- ROSA ONE Brain works as a surgical GPS to guide the surgeon to the intended targets while avoiding critical structures.



Step 2: Minimally Invasive Registration

- Contactless registration technology pairs laser sensors with a robotic arm to record the patient's position and anatomy.
- The system executes detailed scans of the patient's facial features - matching the scan to pre-operative images. Using this technology, registration is performed without the use of invasive landmarks.
- Alternatively, traditional registration methods such as skin or bone fiducials, or stereotactic frame registration may be employed.
- Registration technology streamlines workflow – separating the image acquisition, planning, and operative phases of the procedure. Imaging and planning can be completed prior to the day of surgery.

Step 3: Accurate² Robotic Guidance

- Robotic technology guides surgical instruments based on pre-operative mapping and registration.
- Advanced haptic manipulation allows the robot to act as a natural extension of the surgeon, interacting seamlessly with the existing workflow while providing valuable advantages of robotic technology.
- ROSA ONE includes assisted navigation capabilities – enabling surgeons to display and visualize instruments on patient imaging in real time.



MULTIPLE PROCEDURES

ROSA ONE Brain can assist in a variety of neurosurgical procedures, such as:

- Stereo Electroencephalography (SEEG)
- Deep Brain Stimulation (DBS)
- Stereotactic Biopsy
- Ventricular Endoscopy
- Transnasal Endoscopy

MULTIPLE

STAKEHOLDER BENEFITS

Zimmer Biomet is committed to providing value to surgeons, clinicians and healthcare providers, while simultaneously improving the lives of patients worldwide. ROSA ONE Brain leverages robotic-assisted technology to maximize accuracy², speed³, and flexibility of neurosurgical procedures and help healthcare organizations manage operational costs.



PATIENT

- Minimally invasive procedure – enhanced patient comfort¹
- Simplified pre-operative procedures
- Speed of procedures – minimizes anesthesia time³
- Procedure can be performed without shaving the head



SURGEON

- Data-driven informed decisions - preoperative mapping & visualization
- Simplified and streamlined workflow - mapping and registration
- Collaborative mode allows the surgeon complete control of the robotic arm
- Reduced fatigue due to shorter procedures³



HOSPITAL

- Reduced OR costs due to shortened procedures³ - potential increase in OR turnover rate
- Value-based device - multiple applications on a single platform
- Enhanced community visibility as forward-thinking organization
- Minimally invasive procedures may enhance patient comfort¹ - potential to increase satisfaction

ONE ECOSYSTEM

OF FULLY INTEGRATED SOLUTIONS AND SERVICES

ROSA Technology is part of our **Surgery Assisting Technology (SAT) Platform** — an integrated set of technologies and services that streamlines the delivery of care, facilitates surgeon preservation and is intended to improve the patient experience and enhance health outcomes. From robotics, bionics and navigation solutions to clinical support and technical services - SAT enables you to deliver precise, adaptable care in the O.R. and beyond.

From surgical technologies and implants ... to medical education, product support, program development and contracting — we provide you with a fully integrated ecosystem of solutions and services through one seamless partnership — saving you time, energy and money that is much better spent on patient care.

We call it Zimmer Biomet Connect.

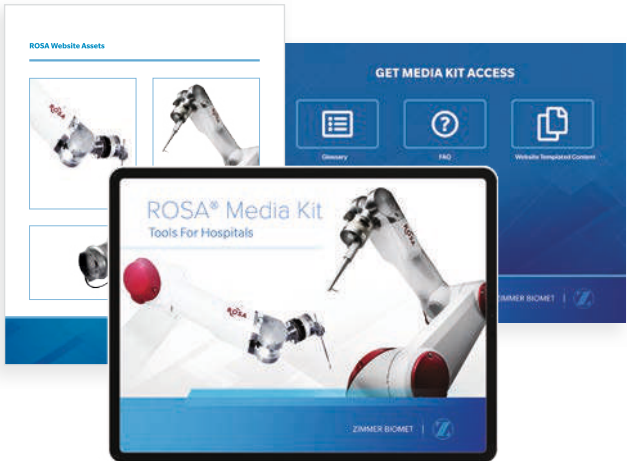
SURGERY ASSISTING TECHNOLOGY

BEST-IN-CLASS IMPLANTS

MEDICAL EDUCATION & PRODUCTSUPPORT

PROGRAM DEVELOPMENT

SEAMLESS CONTRACTING & PURCHASING



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NOTES					
Description ABC					
ITEM NAME	ITEM CODE	QTY	PRICE	DISC	TOTAL
Item Description	Item Code	100	\$5	\$5	\$5
Item Description	Item Code	100	\$5	\$5	\$5
Item Description	Item Code	100	\$5	\$5	\$5
Item Description	Item Code	100	\$5	\$5	\$5
Item Description	Item Code	100	\$5	\$5	\$5

ORDER TOTAL

\$555

References

1. Tandon et. al. Analysis of Morbidity and Outcomes Associated with Use of Subdural Grids vs Stereoelectroencephalography in Patients with Intractable Epilepsy. JAMA Neurol. doi:10.1001/jamaneurol.2019.0098 • 2. ROSA ONE Brain Performance Bench Testing, 510(K) Premarket Notification, K182417 • 3. Gonzalez-Martinez et. al. Technique, Results, and Complications related to Robot-Assisted Stereoelectroencephalography. Neurosurgery 78:169–180, 2016.



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