

intuitive
a revolution!
easy to use

*surgical planning
solution*

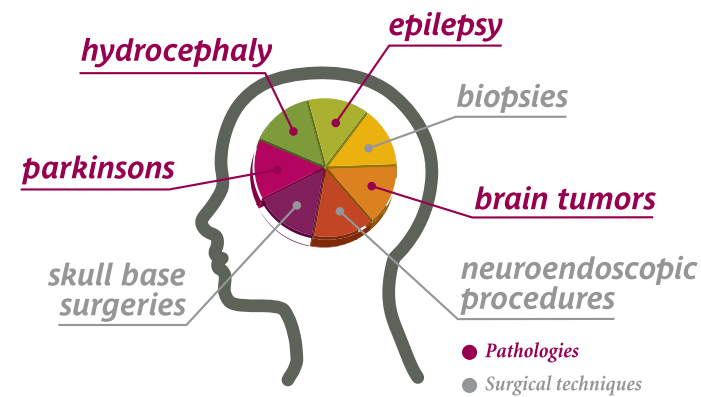
Your robotic assistant for various applications

ROSA™ is the latest generation in robotics to work alongside neurosurgeons to provide guaranteed accuracy relative to a frame-based stereotactic system and is ergonomically superior to a standard navigation system.

- Procedural safety is increased:
the instruments are guided into position based on the planned trajectory inputs.
- Workflow is simplified:
patient pre-op preparation is no longer required.
- Application accuracy is the best available on the market today. It combines robotic accuracy with patented laser technology.
- Patient's comfort is increased
because a stereotactic frame is no longer needed.
- OR time can be reduced by
as much as 50% depending on the procedure.
- There are no limitations with planned trajectories and they can be easily and rapidly modified through the planning station or on the robot directly.

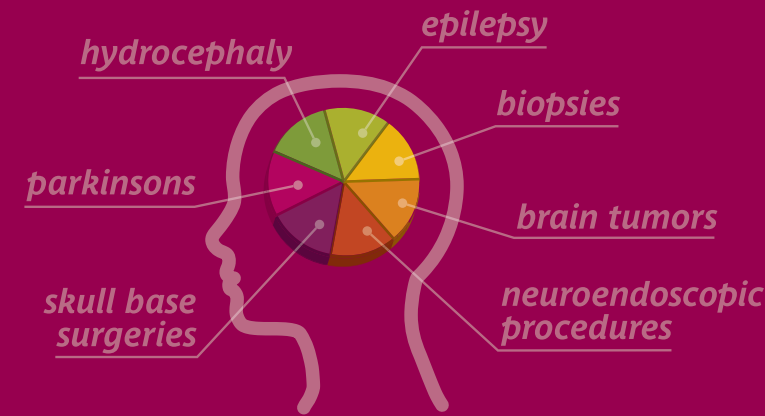
What ROSA™ does

ROSA™'s inherent flexibility empowers the surgeon in a broad range of indications, including:



ROSA™ is a unique integrated platform

ROSA™ promises to deliver an entirely new level of surgical assistance for a variety of neurosurgical procedures. It offers a seamless combination of the latest generation in computer science and robotic technology in order to bridge the gap between surgical planning and execution. ROSA™ integrates cutting edge tools for pre-operative planning, instrument guidance, intraoperative navigation and instrument manipulation. This exclusive combination of features provides increased accuracy, reliability and control over the procedure.



ROSA™ embodies the new generation of surgical assistance technology.

It is the successful conclusion of an unmatched experience in applying advanced robotics to address unmet surgical needs.

ROSA™, created by Medtech, offers increased accuracy, reliability and control over the procedure, helping physicians to enhance surgical performance.

ROSA™ assists surgeons in a broad range of indications such as Parkinson and Epilepsy treatments, tumor surgery and endoscopy procedures.

www.zimmerbiomet.com

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ROSA™ robotic surgical assistant
Fine tuning excellence

Simplified workflow

**Pre-operative
data acquisition**

**Pre-operative
planning**

**Patient
registration**

**Surgical
guidance**



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The Art of Diagnostics

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SCHILLER
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Introducing ROSA™, your unique robotic assistant for neurosurgery

flexible

easily customizable

quick and smart

It goes without saying that neurosurgeons are facing growing challenges to improve patient outcomes all the while increasing productivity with superior results during surgical and clinical procedures.

ROSA™ is the latest generation in robotic assistance working alongside neurosurgeons to provide precise targeting, dexterous handling by means of minimally invasive approach to reduce clinical complications and increase patient's safety.

ROSA™ includes state-of-the-art surgical robotics technology and comprehensive and innovative proprietary software designed for advanced surgical planning.

traceability
of interventions

reduced operating time
due to increased efficiencies

reduced trauma

increased consistency
in surgical performance
and outcome

more
streamlined
treatment

Proprietary surgical planning solution

ROSA™ includes its own, purpose-built, surgical planning solution. This proprietary navigation software was engineered in close cooperation with leading Neurosurgeons. The result is a full-featured, yet intuitive solution allowing you to take full advantage of our powerful robotic platform.

Automatic markerless registration

ROSA™'s patented registration technology couples an ultra-precise laser sensor to the robotic arm for accurate and robust patient localization. The system automatically scans the patient's facial features and matches the data to the pre-operative images. This exclusive markerless registration technology streamlines the surgical workflow by completely decoupling the image acquisition, planning, and operative phases of the procedure. Consequently, imaging can be completed days before the surgery with no fiducials. Alternatively, traditional registration methods such as skin fiducials, bone-mounted fiducials or a stereotactic frame may be employed while still taking full advantage of ROSA™'s capabilities.

Automatic instrument guidance

ROSA™'s precise robotic technology enables automatic guidance of all surgical instruments according to pre-operative planning. In a matter of seconds, the robotic arm moves from one trajectory to another resulting in significant OR time savings.

Furthermore, the safety of the procedure is increased by minimizing potential human error associated with a manual mode.

Advanced instrument manipulation

ROSA™'s unmatched haptic manipulation mode provides the surgeon with enhanced control over the procedure. At any given time during the procedure, the robot may be transitioned to manual mode while allowing for continuous instrument navigation on the pre-operative images. Tireless instrument support coupled with enhanced precise movements, makes ROSA™ an ideal assistant for minimally invasive procedures. The advanced manipulation mode increases the surgeon's dexterity by enabling constrained motion. Instruments can be easily manipulated along complex trajectories such as isocentric rotation or axial translation.

The safety of the intervention is further enhanced by enabling ROSA™'s security zones to restrict instrument manipulation inside a given subspace, as determined during pre-operative planning.

ROSA™ increases
the surgeon's
dexterity.

ROSA™ is designed
to enable new,
less-invasive surgical
techniques.

Markerless
Automatic Registration®

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