

Nexaris MR

Improve the management
of neurosurgery patients

siemens-healthineers.com/nexaris-mr



Combining MRI intelligence and therapeutic expertise

Nexaris MR

Brain tumors such as gliomas are the most frequent and malignant primary brain tumors in adults with a 5-year mortality rate >90%^{1,2}. MRI-guidance together with advanced image processing in neurosurgery can improve the management of brain tumor patients³⁻¹⁰:

- Increases the rates of gross total resection, overall survivorship, and lowers complication rates and rate of readmission^{3,4,6}.
- Enhances both extent of resection (overall gross overall resection: 88.5% vs. 44%) and 6-month progression-free survival (73% vs. 38.9%)⁶.

- Allows pre-operative functional mapping to facilitate precision resection and reduce adverse neurological effects post-surgery¹⁰.

As part of our Nexaris Therapy Suites, Nexaris MR combines premium MRI technology with the MAGNETOM Sola and MAGNETOM Vida with state-of-the-art OR solutions. This results in highly detailed image quality, safe, efficient patient set-up and -transport, as well as cost-effective and flexible solutions for siting and OR tables.

Nexaris Therapy Suites – Intraoperative MR configurations

MR only



- OR environment
- Neurosurgery only
- Head MR imaging
- Exclusive with Getinge¹¹
- ioMR only

MR with PILOT table



- OR environment
- Wide range of surgery
- Whole body MR imaging
- Exclusive with Getinge¹¹
- ioMR only
- Upgradable:
 - Nexaris Angio-MR with PILOT
 - Nexaris Angio-MR-CT

Angio-MR-CT & PILOT table



- OR environment
- Wide range of surgery
- Whole body MR imaging
- Exclusive with Getinge¹¹
- ioMR + Angio + CT

Angio-MR with PILOT



- OR environment
- Wide range of surgery
- Whole body MR imaging
- Exclusive with Getinge¹¹
- ioMR + Angio
- Upgradable:
 - Nexaris Angio-MR-CT

Excellence in imaging

MRI-guided neurosurgery with
MAGNETOM Sola and MAGNETOM Vida

MAGNETOM Sola 1.5T

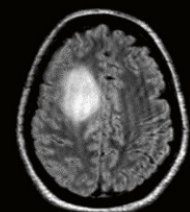


MAGNETOM Vida 3T

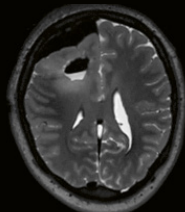


Neurosurgical intraoperative MR clinical image examples

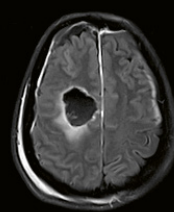
Pre ioMR scan



ioMR scan
(Flex Large 4 coil)

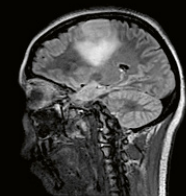


Post ioMR scan



T2 TSE FLAIR (6 ml Gadovist)

2aada0936



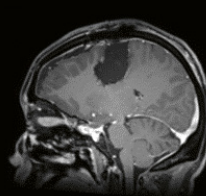
T2 SPACE FLAIR (8 ml Gadovist)

2aada0935



T2 SPACE

2aada0934



3D T1 MPRAGE (6 ml Gadovist)

Image courtesy of the Clinica Universidad de Navarra, Pamplona, Spain.

Efficiency in workflow

The Nexaris Dockable Table allows an easy, direct patient transfer as well as flexible patient positioning in a surgical head clamp

Robust

Water resistant
up to 2 liters

Removable transfer rails

Easy to clean

2 extended lengths OR side rails

For easy OR accessory
positioning

Lowest table height 56 cm

Convenience for
diagnostic patients

BioMatrix Interfaces

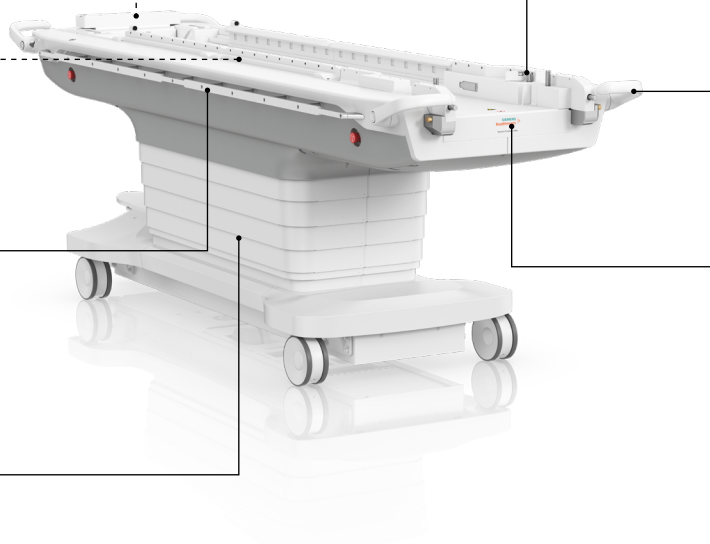
New table user interface
with push button functions

Folding handles on both sides

For easier and more
comfortable transfer

55 mm of space below transfer board

For flexible patient positioning
in surgical head clamp



- **Whole-body MR imaging**
- **Only one direct patient transfer**
- **No patient repositioning**

Flexibility in neurosurgery

Flexible neurosurgery options with a choice of compatible OR Tables

Getinge¹¹ Maquet Magnus 1180.13

Key features

- Segmented tabletop, available with either fixed or mobile columns
- Generally used for open OR procedures and supports intraoperative MR imaging



Getinge¹¹ Maquet Magnus 1180.12

Key features

- Flat, non-segmented tabletop with fixed column
- Supports both open OR procedures and Hybrid OR procedures in conjunction with intraoperative MR imaging as well as intra-operative angiography and CT imaging



Supported surgical head clamps from NORAS¹¹ and Black Forest Medical Group¹¹

NORAS¹¹ Flexibility head holder

Key features

- Removable lower coil
- 3- to 7-point fixation with attachable force indicator
- Unique sterile concept: no need to sterilize the coil and cables
- 8-channel coil set up with 2x4-channel integrated coils
- For use with intraoperative MR imaging



Black Forest Medical Group¹¹ DORO LUCENT iMRI Cranial Stabilization System

Key features

- Intuitive workflow due to 3-point fixation
- Up to 18-channel coil set up with Siemens Healthineers Flex Coils
- For use with intraoperative MR imaging



Black Forest Medical Group¹¹ DORO LUCENT iXI Cranial Stabilization System

Key features

- Intuitive workflow due to 3-point fixation
- Up to 18-channel coil set up with Siemens Healthineers Flex Coils
- For use with any combination of intraoperative CT, -X-ray, -Angio and MR imaging within the same surgery



> For PILOT

Black Forest Medical Group¹¹ DORO LUCENT iMRI & iXI Collision Indicators

Key features

- Versions for DORO LUCENT iMRI and iXI Cranial Stabilization Systems available
- Verifies collision free patient transfer to intra-operative MR imaging
- Easy to handle and store



> For PILOT

Effectiveness in operation

Easy placement and integration of MRI systems with different room solutions

With their small footprints, MAGNETOM Sola and MAGNETOM Vida are easy to install and quickly integrated in your existing intraoperative setting.

Being a complete, yet flexible solution, Nexaris MR can provide great versatility to fit your needs and ensures optimal use for your chosen facilities, e.g.:

Two-room siting scenario

Combines one operating room with one MR room open for routine diagnostics.



Three-room siting scenarios

Possibility to have two operating rooms combined with one MR room open for routine diagnostics.



Possibility to have one diagnostic MR room combined with two operating rooms for intraoperative MR and angio imaging.



Nexaris MR – for a smooth and robust workflow

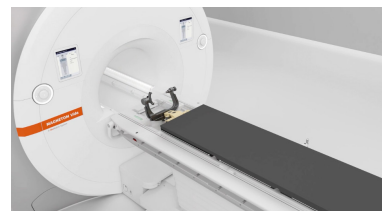
- 1.**
Connecting the Nexaris Dockable Table to the operating table.



- 2.**
One single transfer onto the Nexaris Dockable Table.



- 3.**
Connecting the Nexaris Dockable Table with the MAGNETOM Sola or MAGNETOM Vida.



- 4.**
Scanning the patient.



- 5.**
Connecting the Nexaris Dockable Table and slide transfer board back to the operating table.



- 6.**
Depending on imaging results, continue with or finish surgical procedure.



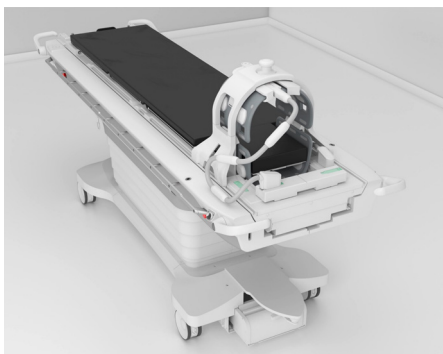
Additional options & features

With these additional options, the Nexaris Dockable Table can support intraoperative MR imaging beyond neurosurgical procedures, as well as **supporting diagnostic imaging**

Nexaris Head Frame

Expanding intraoperative neuro imaging possibilities

A frame designed exclusively for the Nexaris Dockable Table which holds two Ultra Flex large 18 coils to be used in conjunction with a transfer board for intraoperative neuro imaging.



Nexaris Spine 36

Dedicated spine coil for the Nexaris Dockable Table

The Nexaris Spine 36 coil supports both intraoperative and diagnostic MR imaging. Its unique design is lightweight, durable, and is sealed for better resistance to fluids which may leak during a transfer or intervention.



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- ¹¹ The information shown herein refers to products of 3rd party manufacturer's and thus are in their regulatory responsibility. Please contact the 3rd party manufacturer for further information.

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