



## Key differentiators

# MAGNETOM Solo

➤ [siemens-healthineers.us/magnetom-sola](https://siemens-healthineers.us/magnetom-sola)



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## Magnet & BioMatrix Tuners

The all new design of MAGNETOM Sola incorporates both a short magnet with a 157 cm system length (cover to cover), plus a patient-friendly, 70 cm Open-bore. The magnet maintains excellent homogeneity over a large 50 x 50 x 50 cm<sup>3</sup> field of view (FOV). The unique BioMatrix Tuners, CoilShim and SliceAdjust, further enhance homogeneity by applying patient-specific and region-specific shim optimization in critical regions. This results in robust and reliable fat saturation throughout the entire imaging volume, especially important for: abdominal, off-center, large-FOV and long bone imaging. In addition, the system provides active shielding and zero helium boil-off technology.

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**Features a large  
50 x 50 x 50 cm<sup>3</sup>  
field of view**

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## Gradients

The MAGNETOM Sola gradient amplifier comes in a modular and highly compact design with ultra-fast, solid-state technology and low switching losses. Depending on your clinical needs, two gradient power versions are available:

- XJ: 33mT/m max. amplitude with a maximum slew rate of 125T/m/s
- XQ: 45mT/m max. amplitude with a maximum slew rate of 200T/m/s

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**Powerful gradients  
XJ: 33 mT/m @ 125 T/m/s  
XQ: 45 mT/m @ 200 T/m/s**

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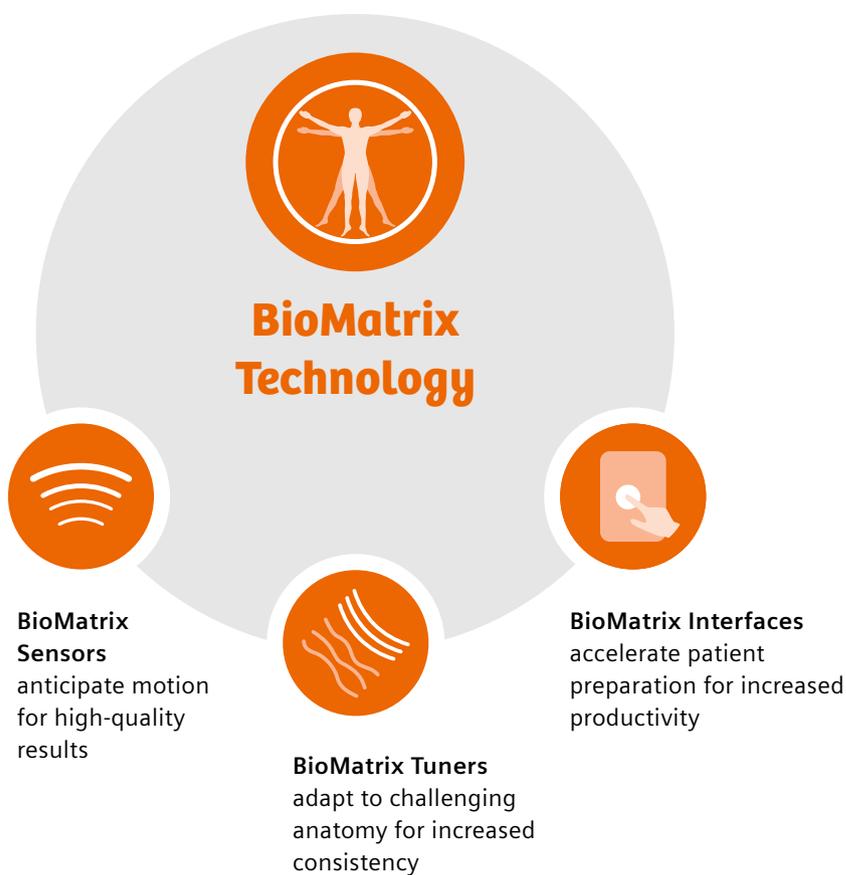
The scanner uses passive and active shimming. A special MAGNETOM Sola Cardiovascular Edition with XQ gradients is available for installations where cardiac will be the primary focus.



## BioMatrix

Patients have unique, individual characteristics—biovariability. Different physiologies and anatomies—and how each patient interacts with the MRI technology—may cause variations in the imaging results. BioMatrix Technology helps to overcome these challenges by automatically adjusting to patient biovariability. By embracing human nature in this way, we can personalize the MRI examination and help expand precision medicine.

The three key pillars of the BioMatrix family that drive consistency and efficiency in the face of biovariability are BioMatrix Sensors, BioMatrix Tuners and BioMatrix Interfaces.

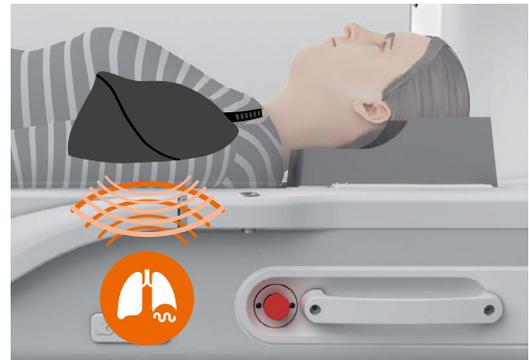




## BioMatrix Sensors

Anticipate motion for high-quality results

The unique Respiratory Sensors in the BioMatrix Spine coils automatically detect breathing patterns as soon as the patient lies on the table. This speeds up patient setup especially when respiratory triggering is needed for image acquisition. There is no need for an additional respiratory bellows or belt. The detected respiratory motion is immediately displayed on the BioMatrix Interface as a respiratory curve.

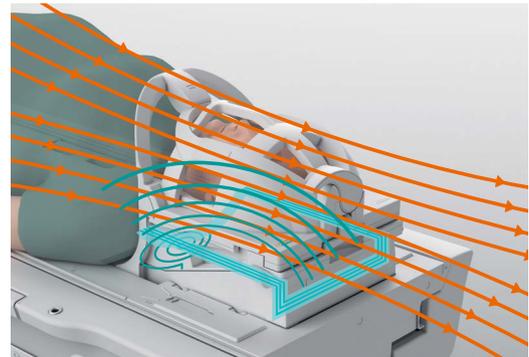


## BioMatrix Tuners

Adapt to challenging anatomies for reliable exams

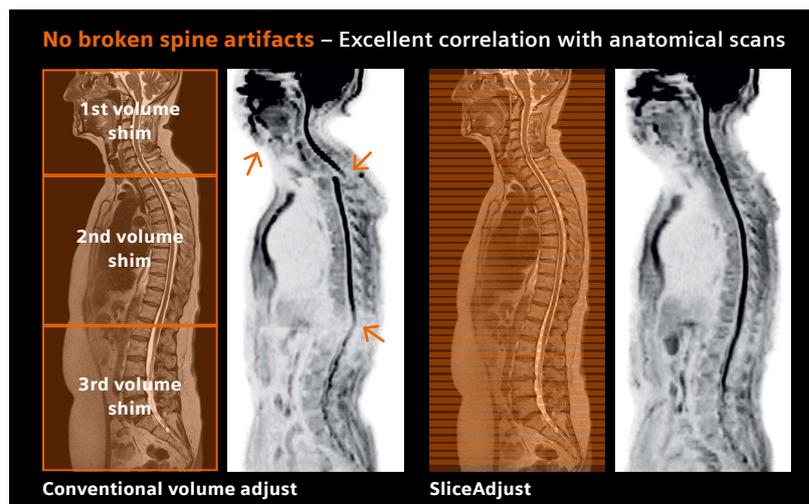
### CoilShim\*

Integrated into the new BioMatrix Head/Neck coils, CoilShim increases diagnostic quality and reduces the need for repeat scans by delivering improved fat saturation, better DWI and TSE quality in the neck region. Additional shim elements directly integrated into the BioMatrix Head/Neck coil perform region-specific shimming for a more homogeneous B0 field in the challenging head and neck region.



### SliceAdjust

In a typical MR scanner, B0 field inhomogeneity resulting from a patient's anatomy is corrected by the standard volume shim. However, for multi-station exams, volume shimming has its limitations, for example, at station boundaries. This typically leads to "broken spine" artifacts in whole-body DWI or impaired fat saturation in multi-station TSE. With BioMatrix SliceAdjust, precise slice-by-slice shimming is performed to eliminate the inaccuracies of a conventional volume shim. SliceAdjust delivers excellent DWI quality, providing excellent correlation to anatomical scans and improving fat saturation in TSE scans.



\*Optional for the 32CH Sola



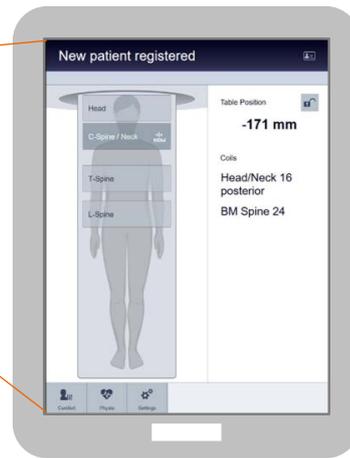
## BioMatrix Interfaces

Accelerate patient preparation for increased efficiency

### Select&GO

With one-touch positioning using the Select&GO display, based on the underlying BioMatrix Body Model, artificial intelligence is used to accelerate patient positioning by up to 30%.<sup>1</sup> The body region to be scanned is automatically displayed on the touch display depending on which set of coils is plugged into the table. As soon as the body region of interest is selected, the patient is moved to iso-center without activating the laser light. Delays due to incorrect positioning can now be avoided.

**BioMatrix Select&GO  
accelerates patient  
positioning—powered by AI**



### Dockable Table<sup>2</sup>

The BioMatrix Dockable Table enables fast and easy patient setup. The multi-directional navigation wheel and 360-degree flexibility make patient handling easy. Also, the possibility to lower the table to 52 cm guarantees an easy patient transfer. The fast, automated push-button AutoDock functionality allows maneuvering without peddles. The receiving port guides the table for easy alignment into the scanner. The optional eDrive support provides motorized assistance so that even the heaviest patient can be moved effortlessly to and from the MRI scanner.



Easy and  
intuitive interface

Sensitive to user touch



Effortless maneuverability with  
eDrive assistance

Up to 550 lbs



Easy docking with  
AutoDock

No pedals required

<sup>1</sup>Data on file.

<sup>2</sup>Optional





## TIM 4G Coil Solutions

With one of the broadest coil portfolio's in the industry—the ultra-lightweight coils drive functionality and solve key clinical and workflow needs:

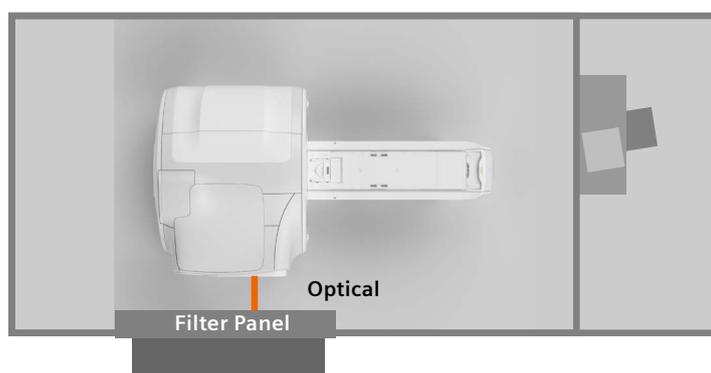
### DirectRF

As discussed earlier, Direct RF provides integration of all transmit and receive components at the magnet, enabled by the unique digital-in and digital-out design with fiberoptic cables between the magnet and equipment room.

- Enabler for real-time feedback loops
- Higher signal purity and improved stability
- Enhanced image quality, less noise
- Easier siting

### DirectRF

- **Better image quality, less noise**
- **Higher signal purity and improved stability**
- **Easier siting**

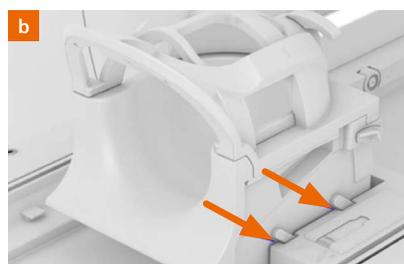


### DirectConnect and SlideConnect

DirectConnect and SlideConnect technology enable one-hand operation. This results in easy handling and helps to speed up the workflow even further.

Your advantages:

- Up to 40%\* faster body imaging with Tim 4G due to its ultra-high coil element density, enabling more SNR and speed.
- Maximum 205 cm scan range without repositioning the patient when large coverage is required.
- Light-weight coil design for fast setup and increased patient comfort.
- Accelerated workflow with DirectConnect, cable-less coils for spine, head/neck and foot/ankle and SlideConnect technology on all other coils for easy one-handed operation.



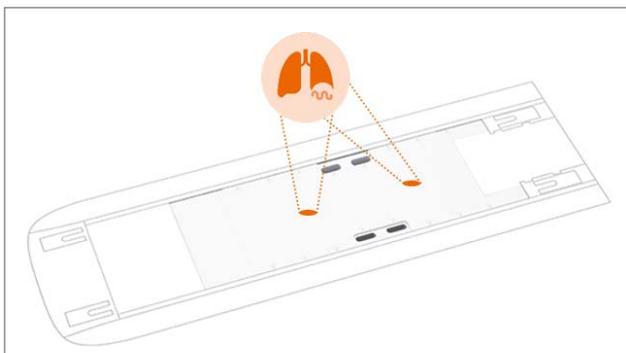
(a) Light-weight Body 18 coil on the integrated Spine 32 coil; easy-to-use and fast coil connection with (b) DirectConnect and (c) SlideConnect.

\*Data on file.

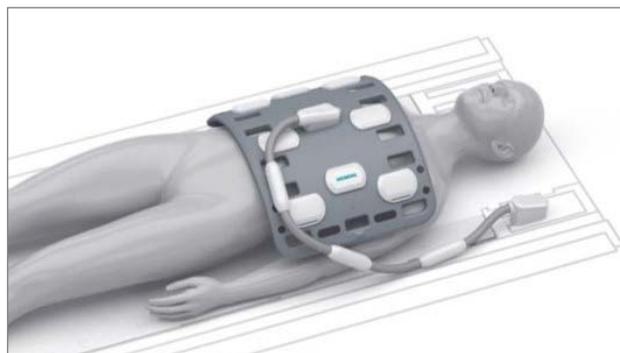


## Flexible and Patient Friendly Coils

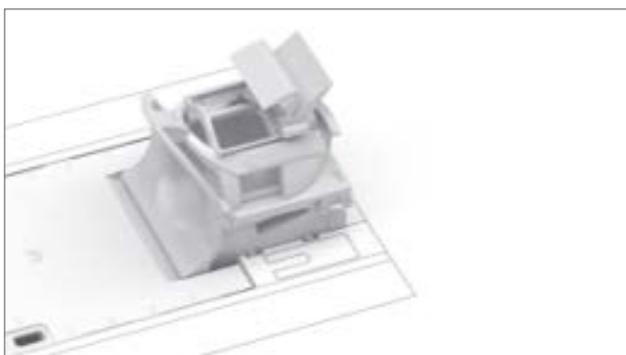
A comprehensive set of coils included  
Designed to Support All Your Imaging Needs



**BioMatrix Spine 24, 32 & Spine 48**  
with Respiratory Sensors<sup>3</sup>



**BioMatrix Body 12<sup>5</sup>/Body 18<sup>2</sup>**



**BioMatrix Head/Neck 20** Tiltable and with Coilshim<sup>4</sup>



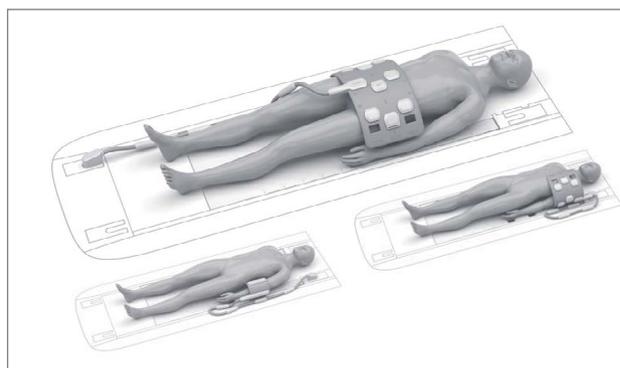
**Flex 4 Large/Small**

## Wide Portfolio of Optional Coils

### UltraFlex 18 Coils (Small & Large)<sup>1</sup>

The UltraFlex 18 coils provide a light-weight, blanket-like feel with the added benefit of breathability. The flexible coils adapt to the patient's anatomy (no fixation straps needed), easily contouring to their body, reducing anxiety.

- Dual-Density Signal Transfer enables the ultra-high density coil design by integrating key RF components into the UltraFlex 18
- Dedicated positioning Aids for shoulder, knee, elbow and foot/ankle for easy and comfortable patient positioning
- 18-channel design
- iPAT-compatible
- Stackable with the Body 12 or Body 18



<sup>1</sup>Optional

<sup>2</sup>Prerequisite: Tim [204 x 48] or higher.

<sup>3</sup>Pre-Requisites: BioMatrix Spine 24 is [204 x 32], BioMatrix Spine 32 is [204 x 48], BioMatrix Spine 48 is [204 x 64].

<sup>4</sup>Optional for Tim [204 x 32], standard for Tim [204 x 48] or higher.

<sup>5</sup>Standard for Tim [204 x 32].

	UltraFlex Large 18 <sup>1</sup>	UltraFlex Small 18 <sup>1</sup>
<b>Weight</b>	4 lb	3.1 lb
<b>Dimensions (L x W x H)</b>	11.4 in x 23.2 in x 0.55 in	7.5 in x 16.1 in x 0.55 in



## BioMatrix Body 18<sup>2</sup>

The BioMatrix Body 18 expands the coil portfolio as a patient-friendly, flexible, and high element density coil. With an integrated Beat Sensor<sup>3</sup>, the breathable coil also incorporates the SlideConnect feature as well as exchangeable cable design for efficient positioning.



- 
- **Integrated Cardiac Beat Sensor<sup>3</sup>**
  - **Can be combined with additional BioMatrix Body 18 coils for larger coverage**
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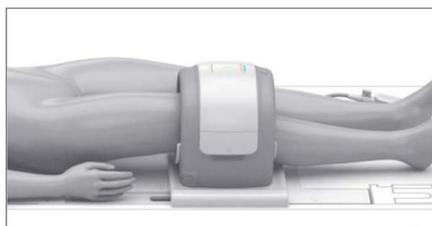
## Contour 24/48<sup>1</sup>

Contour 24 & Contour 48 are soft and flexible Tim 4G coils that adapt to the patient's anatomy and body contour. The coils improve efficiency and reduce anxiety as fixation straps are not needed. Depending on application need, the coil can be used on either side as well as any orientation.



- 
- **No fixation straps needed**
  - **Can be used in any orientation**
- 

## 16 Ch Ortho Coils<sup>1</sup>



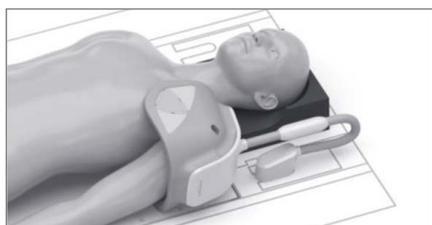
**Accommodate more patients with a flared opening**

**Tx/Rx Knee 18**



**Full hand and wrist coverage**

**Hand/Wrist 16**



**Optimal fit to patient anatomy with flexible coil elements**

**Shoulder Shape 16**



**Secures the anatomy for motion free imaging**

**Foot/Ankle 16**

<sup>1</sup>Optional

<sup>2</sup>Prerequisite: Tim [204 x 48] or higher, otherwise optional.

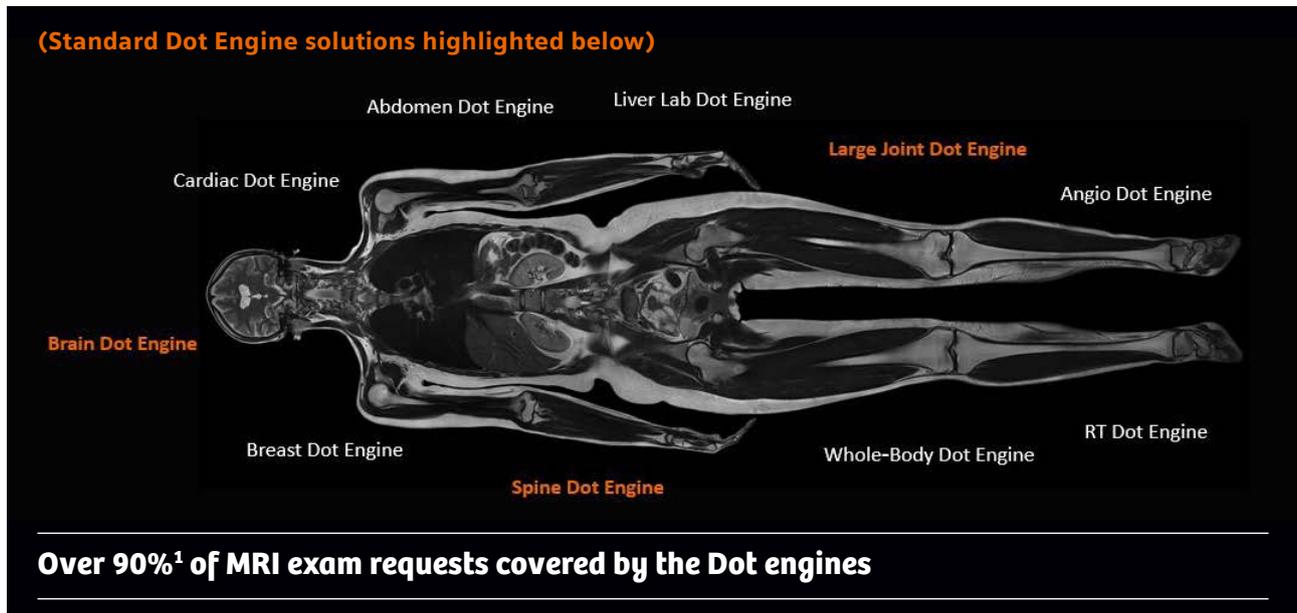
<sup>3</sup>The Beat Sensor is designed for automatic cardiac triggering. The Cardiac Triggering functionality is still under development and not commercially available yet. Its future availability cannot be ensured. The Cardiac Triggering functionality is planned to be activated with a future software update.



## DotGO

10 Dot Engines deliver consistent, reproducible results from head to toe

MAGNETOM Sola Dot Engines<sup>1</sup>

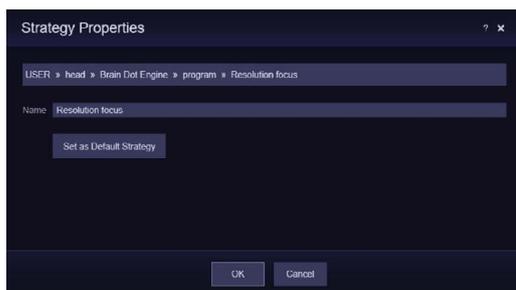


DotGO combines the workflow tools of the Dot engines with the ability to manage your Dot protocols via the Dot cockpit.

Ten unique Dot Engines, tailored to different body regions, provide highly automated scan procedures for more than 90%<sup>1</sup> of all MRI exams. Each Dot Engine offers comprehensive guidance and predefined scan strategies. AutoAlign, powered by artificial intelligence (AI), delivers automatic placement of imaging slices to achieve reproducible scan results—every time.

With the Dot Cockpit, easily manage your protocols while a scan is ongoing.

Find the information you need, where you need it—at the scanner and at the console, completely customizable to your standards of care. Increase the consistency of your exams independent of user.



One-click adaption to patient conditions and clinical questions is convenient, especially when conditions change during an ongoing exam.

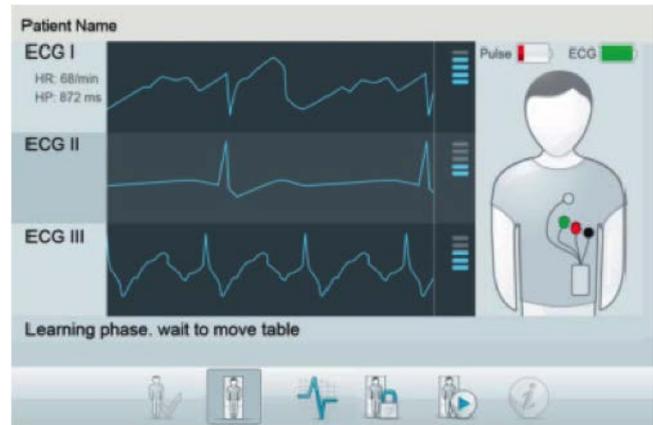
<sup>1</sup>Evaluation of 9 million Siemens MR exams, 2014.



Additionally, Slice positioning can be fully automated, resulting in faster workflow and higher reproducibility. This includes:

- Autoalign – Automated alignment of slices for different indications using Artificial Intelligence (AI)
- AutoCoverage – Automated coverage of appropriate body region
- AutoFoV – Automated FoV proposal

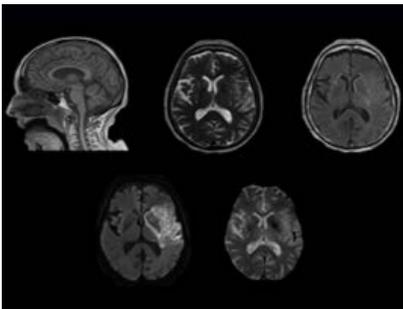
DotGO minimizes complexity, increases consistency, and maximizes efficiency for each MRI exam at your institution.



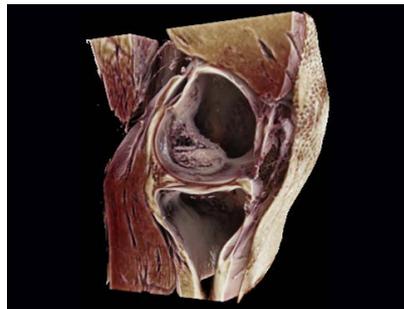
Guidance Example: Cardiac positioning and ECG display.

## DotGo Applications

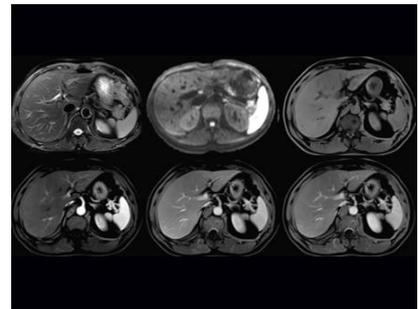
GO Applications are push-button, high-resolution exams that deliver reliable quality at exceptional speed. The protocols are clinically validated to maximize MRI scanner productivity while improving patient care.



**GOBrain/ GOBrain+:**  
Push-button, diagnostic brain exam in 5 minutes or, including post-contrast imaging, in 10 minutes<sup>1</sup>



**GOKnee3D:**  
Push-button, high-resolution 3D knee exam in 10 minutes<sup>1</sup>



**GOLiver<sup>2</sup>:**  
Push-button, diagnostic abdominal exam in just 12 minutes<sup>1</sup>

<sup>1</sup>Data on file.

<sup>2</sup>Optional



## Speed

### Simultaneous Multi-Slice<sup>1</sup>

SMS is a revolutionary method to significantly reduce imaging times for TSE, diffusion, and BOLD imaging through simultaneous excitation and readout of multiple slices. It is the only acceleration technique that does not result in SNR-related losses due to subsampling as opposed to iPAT. Implementation includes a multiband pulse coupled with the blipped CAIPIRINHA technique to minimize g-factor-related SNR penalties.

SMS for the TSE sequence reduces scan times, and/or increases slice coverage/resolution at similar scan times. SMS TSE is unique and is particularly beneficial in MSK imaging, which accounts for a major proportion of daily routine exams.

SMS RESOLVE (REadout Segmentation Of Long Variable Echo trains) delivers high-resolution, low-distortion, diffusion-weighted imaging (DWI) for accurate depiction of lesions. Additionally, this technique is largely insensitive to susceptibility effects, providing detailed, anatomy-true diffusion imaging of the brain, spine, breast and prostate.

### Compressed Sensing<sup>1</sup>

Compressed Sensing is an acceleration technique that incorporates sparse, incoherent subsampling followed by iterative reconstruction. Compressed Sensing in static imaging includes Compressed Sensing SPACE, Compressed Sensing Time-of-Flight (ToF), and Compressed Sensing SEMAC for metal artifact reduction<sup>2</sup>. Compared with other static exams, these Compressed Sensing applications benefit from intrinsic sparsity, which allows higher acceleration factors.



<sup>1</sup>Optional

<sup>2</sup>The MRI restrictions (if any) of the metal implant must be considered prior to patient undergoing MRI exam. MR imaging of patients with metallic implants brings specific risks. However, certain implants are approved by the governing regulatory bodies to be MR conditionally safe. For such implants, the previously mentioned warning may not be applicable. Please contact the implant manufacturer for the specific conditional information. The conditions for MR safety are the responsibility of the implant manufacturer, not of Siemens Healthineers.



## Turbo Suite Packages

To maximize value for our customers, we created three Turbo Suite packages consisting of a combination of various acceleration techniques. Each package is optimized and suitable for different sequences and body regions.

### Turbo Suite Essential

Turbo Suite Essential comprises established acceleration techniques such as iPAT, iPAT<sup>2</sup>, T-PAT, and the unique CAIPIRINHA to maximize productivity for all contrasts and orientations in routine imaging from head to toe. CAIPIRINHA can be applied to volumetric 3D imaging that supports iPAT<sup>2</sup> for body, neuro, or MSK imaging.

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**Turbo Suite Essential provides unique parallel imaging techniques for routine examinations in 10–15 minutes<sup>2</sup> scan time**

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### Turbo Suite Excelerate<sup>1</sup>

Turbo Suite Excelerate comprises cutting-edge acceleration techniques such as Simultaneous Multi-Slice (SMS) and Compressed Sensing for static 2D and static 3D imaging applications in Neuro, MSK, and Body MRI.

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**Turbo Suite Excelerate enables time savings, for all contrasts, orientations, and body regions by up to 50%<sup>2</sup>**

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### Turbo Suite Elite<sup>1</sup>

Turbo Suite Elite comprises cutting-edge Compressed Sensing applications for advanced abdominal and cardiovascular imaging with dynamic 2D and dynamic 3D applications. It includes Compressed Sensing GRASP-VIBE, Compressed Sensing Cardiac Cine, as well as TWIST, TWIST-VIBE, and StarVIBE.

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**Turbo Suite Elite provides unique Compressed Sensing for dynamic and full freebreathing liver and cardiac examinations**

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### Turbo Suite Essential

Routine exams in 10–15 minutes



iPAT  
CAIPIRINHA  
VIBE  
CAIPIRINHA  
SPACE

### Turbo Suite Excelerate

Up to 50% time savings



SMS DWI  
SMS TSE  
SMS RESOLVE  
CS ToF  
CS SPACE  
CS SEMAC

### Turbo Suite Elite

Expand clinical capabilities



CS Cardiac Cine  
CS GRASP-VIBE  
FREEZEit + TWIST

<sup>1</sup>Optional

<sup>2</sup>Data on file.



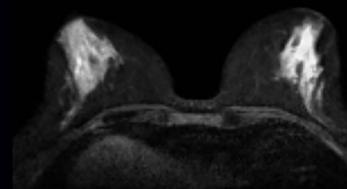
### Conventional



PD TSE, PAT 2  
0.4 x 0.4 x 3 mm<sup>1</sup>  
TA 2:14 min  
1aaaa1659



DWI, PAT 3, b800  
1.6 x 1.6 x 6.0 mm<sup>1</sup>  
TA 3:09 min  
1aaaa1528



RESOLVE, b800  
1.6 x 1.6 x 6.0 mm<sup>1</sup>  
TA 5:22 min  
1aaaa3233

**53% reduction**

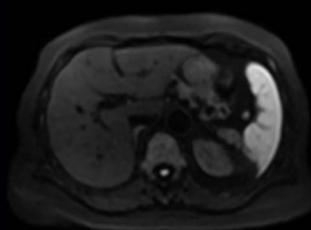
**50% reduction**

**45% reduction**

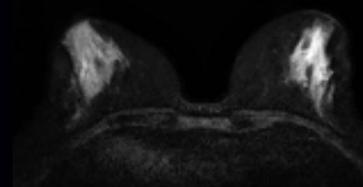
### Turbo Suite Excelerate with Simultaneous Multi-Slice and Compressed Sensing



PD TSE SMS, PAT 2, SMS 2  
0.4 x 0.4 x 3 mm<sup>1</sup>  
TA 1:03 min  
1aaaa1659

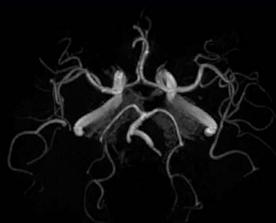


SMS DWI, PAT 2, SMS 2, b800  
1.6 x 1.6 x 6.0 mm<sup>1</sup>  
TA 1:35 min  
1aaaa1528



SMS RESOLVE, SMS 2, b800  
1.6 x 1.6 x 6.0 mm<sup>1</sup>  
TA 2:58 min  
1aaaa3233

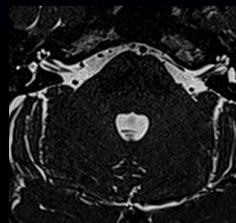
<sup>1</sup>Subject to variability based on region specific requirements.



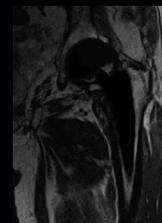
**3D TOF MIP**  
**0.5 mm iso**  
**TA 6:40 min**  
 1aaaa2930



**T2 SPACE MIP, MRCP, PAT 3**  
**0.5 x 0.5 x 1.0 mm<sup>1</sup>**  
**TA 5:51 min**  
**respiratory triggered**  
 1aaaa2793



**T2 SPACE, PAT 2**  
**0.3 x 0.3 x 0.6 mm<sup>1</sup>**  
**TA 5:13 min**  
 1aaaa3016



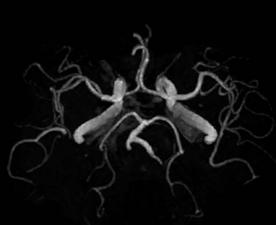
**SEMAC<sup>2</sup>, PAT 3**  
**0.9 x 0.9 x 3.0 mm<sup>1</sup>**  
**TA 6:54 min**  
 1aaaa2956

**70% reduction**

**96% reduction**

**55% reduction**

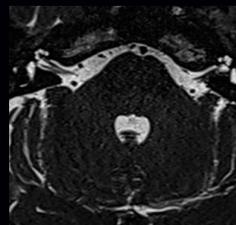
**56% reduction**



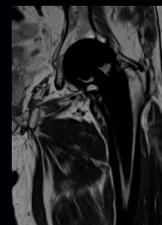
**3D CS TOF Angio MIP**  
**0.5 mm iso**  
**TA 2:00 min**  
 1aaaa2930



**T2 SPACE MIP, MRCP, CS 23**  
**0.5 x 0.5 x 1.7 mm<sup>1</sup>**  
**TA 0:15 min**  
**breath-hold**  
 1aaaa2793



**CS T2 SPACE, CS 6**  
**0.3 x 0.3 x 0.6 mm<sup>1</sup>**  
**TA 2:20 min**  
 1aaaa3016



**CS SEMAC<sup>2</sup>, CS 8**  
**0.9 x 0.9 x 3.0 mm<sup>1</sup>**  
**TA 3:03 min**  
 1aaaa2956

<sup>1</sup>Subject to variability based on region specific requirements.

<sup>2</sup>The MRI restrictions (if any) of the metal implant must be considered prior to patient undergoing MRI exam. MR imaging of patients with metallic implants brings specific risks. However, certain implants are approved by the governing regulatory bodies to be MR conditionally safe. For such implants, the previously mentioned warning may not be applicable. Please contact the implant manufacturer for the specific conditional information. The conditions for MR safety are the responsibility of the implant manufacturer, not of Siemens Healthineers.



## Improving the MRI patient experience – with comfort, speed, and entertainment

Most patients who undergo an MRI scan experience some level of anxiety. Help patients overcome anxiety by turning MRI into a comfortable, fast, and entertaining experience.

- Calm patients with a relaxing atmosphere
- Create a patient comfort zone
- Ease patients' anxiety

### Bring patient experience solutions to life with augmented reality

Explore how our solutions improve the MRI patient experience with augmented reality (AR). Configure the solutions in your environment and display them in life size directly on your smart mobile device.



### Calm patients with a relaxing atmosphere<sup>1</sup>

Patients arriving for an MRI examination are often anxious and stressed. Help them relax the minute they enter the room with our scanner MoodLight. You can also design a calming theme for your scan room using scanner skins, projections, or wall coverings.



### Quiet Suite – Imaging is to be seen, not heard

Offer patients quiet examinations of the brain, spine, and large joints—without compromising image quality or scan time. Quiet Suite benefits your patients by providing a 99%<sup>2</sup> reduction in sound pressure for neurological and orthopedic MRI exams.



### Noisy and boring MRI exams are a thing of the past with Innovision<sup>3</sup>

Innovision<sup>1</sup> redefines the patient experience using a revolutionary in-bore infotainment solution. Patients are engaged by an impressive sound and video experience as soon as they lie on the table. The patient display keeps patients informed about their remaining scan time and displays predefined or custom content.



### MAGNETOM Mini Scanner Mock-up<sup>1</sup>

Let patients see, hear, and feel an MRI scan with our MAGNETOM Mini Scanner Mock-up. The MAGNETOM Mini Scanner Mock-up comes with a sliding table top that can be manually moved in and out of the bore. The MAGNETOM Mini Scanner Mock-up also features two buttons that, when pressed, will play pre-recorded sounds of three different MRI sequences.



<sup>1</sup>Optional

<sup>2</sup>Data on file.

<sup>3</sup>Innovision is still under development and not commercially available yet. It is not for sale in the U.S. Its future availability cannot be ensured.



## MRI Life Design

### Short installation time

Thanks to its compact system design, MAGNETOM Sola has a typical installation time of less than 10 working days, helping reduce costs from the very start.



### Small footprint

Minimum total space requirement: ~300 ft<sup>2</sup> for magnet, electronics, and console room. The system complies with the standard ceiling height of 94.5 in. An integrated water cooling cabinet eliminates the need for dedicated cooling of the entire equipment room.



### Zero Helium boil-off magnet technology

During operation, the magnet windings must be cooled below their critical temperature using liquid helium. Equipped with Zero Helium boil-off technology, MAGNETOM Sola requires no helium refill in normal use. Depending on the frequency and type of applications used, overall savings of up to 1,300 liters of liquid helium are possible<sup>1</sup>.



### Product take back

Most of the materials used to produce MAGNETOM Sola are recyclable. 92% (by weight) can be recycled for material content and 8% for energy. We refurbish systems and reuse components and replacement parts whenever possible through our Refurbished Systems business.



### Power-saving technology

Intelligent technology for higher energy efficiency: optimized sequences for less gradient switching, and self-adapting components, that switch off automatically when not needed.



### System start timer

Timer clock that can be installed together with the MAGNETOM Sola to start the system automatically at user-definable times, eliminating waiting times during system boot up. It allows the definition of three different startup times for different days.<sup>3</sup>



### Advance. Now Evolve

The Advance.Now Evolve when included in a service agreement, elevates your imaging solutions to the head of the pack. Get the latest versions of your equipment's software as it becomes available—as well as systematic hardware upgrades—so your imaging systems remain state-of-the-art for years to come.



<sup>1</sup>Data on file.

<sup>2</sup>Source: <https://www.bloomberg.com/news/articles/2013-01-31/helium-rises-to-highest-since-1995-in-fallout-from-shale-boom>.

<sup>3</sup>University Hospital Freiburg, Germany. The statements by Siemens Healthineers customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption), there can be no guarantee that other customers will achieve the same results. This statement was provided by a person who or whose institution is engaged in a collaboration with Siemens Healthineers.



At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving patient experience, all enabled by digitalizing healthcare.

An estimated 5 million patients globally benefit every day from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics, and molecular medicine, as well as digital health and enterprise services.

We're a leading medical technology company with over 120 years of experience and 18,500 patents globally. With about 50,000 dedicated colleagues in over 70 countries, we'll continue to innovate and shape the future of healthcare.

The outcomes and statements provided by customers of Siemens Healthineers are unique to each customer's setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, and level of service/technology adoption), there can be no guarantee that others will achieve the same results.

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The information in this document contains general technical descriptions of specifications and options as well as standard and optional features, which do not always have to be present in individual cases.

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