MAGNETOM Free.Star MRI for all.

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As an extremely powerful imaging tool, MRI has proven to play a pivotal role in the fight against many of our world's most prevalent diseases. Today more than ever, access to MRI should be a matter of course. But the cost and complexity of deploying conventional MR scanners limits its reach. The size and weight of conventional MRI scanners, the special infrastructure and servicing they require, plus the training needed to operate them are both technically and financially prohibitive for many healthcare providers. But these barriers are often only imposed by conventions.

If we dare to question conventions and pursue new avenues, we can break down those barriers and expand the reach of MRI.

50% of the world's population have no adequate access to MRI



> We believe everyone deserves access to MRI

MRI for all.

MAGNETOM Free.Star introduces a disruptively simple approach to MRI that transforms global access to high-value care. Where conventional MR system architecture created an obstacle for installation and maintenance, MAGNETOM Free.Star seamlessly fits into an existing helium-free infrastructure. Where shortage of local expertise provided a constraint in operating such a complex imaging modality, MAGNETOM Free.Star empowers a seamless and automated workflow. Based on our revolutionary High-V MRI platform, MAGNETOM Free.Star creates a new breed of MRI that ensures greater healthcare for everyone.



Our most compact MRI

MAGNETOM Free.Star, disruptively simple to site.

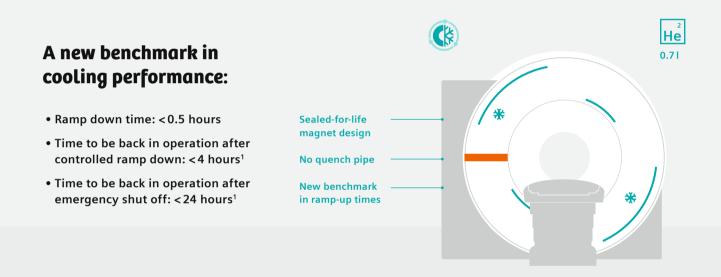
With a small footprint, light weight and low height, MAGNETOM Free.Star opens up new siting possibilities, addressing infrastructure challenges that impede access to MRI.



DryCool technology

MAGNETOM Free.Star, freedom beyond helium.

With no need for a quench pipe, MRI installation planning and siting is made easier than ever before.







Helium-independent infrastructure

MAGNETOM Free. Platform turnkey² solution

Fully equipped MRI suite for a plug&play deployment.

Agile siting is made easier with an out-of-the-box solution, ready to accommodate your clinical needs in the most challenging climate and geographical locations.





Contour Coils

Why choose if you can have both?

Put your patient at ease and benefit from workflow flexibility and efficiency with our new blanket-like coil portfolio.

Contour S Coil



- 45 cm x 27 cm
- Multi-purpose use, e.g., small joints

Contour M Coil



- 57 cm x 29 cm
- Multi-purpose use, e.g., large joints

Contour L Coil



- 63 cm x 42 cm
- Multi-purpose use, e.g., abdominal imaging

5

Available in three different sizes to always provide an ideal fit

Making MRI more accessible by leveraging digital solutions

MAGNETOM Free.Star with High-V MRI

Digitalization is rapidly transforming MR imaging by applying highly efficient acquisition techniques and deep learning-based reconstruction. High-V MRI takes the power of digitalization and deliberately applies it to a new field strength of 0.55T with inherent clinical benefits. High-V MRI combines the best of both worlds to offer a new era in MRI that embraces diagnostic confidence in daily routine and new clinical opportunities.

Rapidly increased computational power

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Increasingly efficient acquisition techniques

and the second

Simultaneous Multi-Slice, Compressed Sensing and more

Al-based image reconstruction

Deep Resolve – the new paradigm in clinical performance

Allowing us to do more with less

Deep Resolve – the power of neural networks



Conventional Matrix: 192 x 256 TA 2:12 min



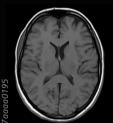


Deep Resolve Matrix: 384 x 512 TA 2:12 min



Powered by
artificial intelligence

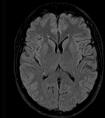
Neuro imaging



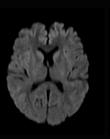
T1 SE

0.4 x 0.4 x 5.0 mm³ TA 2:50 min

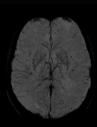
T2 TSE Deep Resolve 0.4 x 0.4 x 5.0 mm³ TA 2:50 min



T2 TSE Dark-Fluid Deep Resolve 0.5 x 0.5 x 5.0 mm³ TA 4:00 min



DWI b1000 PAT 2 0.7 x 0.7 x 5.0 mm³ TA 2:54 min



EPI SWI Deep Resolve 0.8 x 0.8 x 1.8 mm³ TA 4:23 min



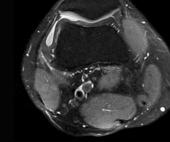
Time of flight

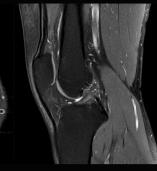
0.5 x 0.5 x 0.5 mm³ TA 4:05 min



Orthopedic imaging









7aaaa0198

PD TSE Fat Sat SMS 2 | Deep Resolve 0.3 x 0.3 x 3.0 mm³ TA 2:46 min PD TSE Fat Sat SMS 2 | Deep Resolve 0.3 x 0.3 x 3.0 mm³ TA 2:16 min **PD TSE Fat Sat** SMS 2 | Deep Resolve 0.4 x 0.4 x 3.0 mm³ TA 2:56 min T1 SE

0.3 x 0.3 x 3.0 mm³ TA 1:51 min

> Total exam time: 9:49 min

Abdominal imaging



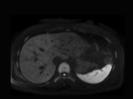
HASTE PAT 2 | Deep Resolve 1.5 x 1.5 x 6.0 mm³ TA 1:23 min



T2 BLADE Fat Sat PAT 2 1.2 x 1.2 x 6.0 mm³ TA 4:36 min



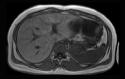
T2 BLADE PAT 2 1.2 x 1.2 x 6.0 mm³ TA 3:27 min



DWI b800 PAT 2 | Deep Resolve 1.5 x 1.5 x 6.0 mm³ TA 3:38 min



MRCP PAT 3 | Deep Resolve 0.6 x 0.6 x 1.0 mm³ TA 2:43 min



T1 VIBE Dixon (in-phase, opposite-phase & water) CAIPIRINHA 2 | Deep Resolve 0.8 x 0.8 x 3.0 mm³ TA 4x 0:16 min



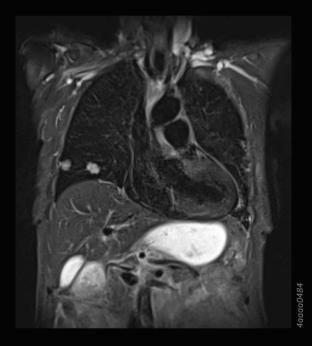




T1 VIBE Dixon (in-phase, opposite-phase & water) CAIPIRINHA 2 | Deep Resolve 0.9 x 0.9 x 3.0 mm³ TA 4x 0:17 min

Leveraging High-V MRI to reach higher clinical value

When you dare to break conventions, new opportunities arise. The unique field strength of 0.55T with High-V MRI offers inherent physical benefits that overcome the limitations of today's MR imaging. MAGNETOM Free.Star offers new clinical applications that expand the reach of MRI.



Pulmonary imaging has been notoriously difficult with MRI as the magnetic signal gets destroyed at the interfaces between air and tissue due to large susceptibility differences.

With MAGNETOM Free.Star new opportunities arise as fewer susceptibility artifacts compared to higher field strength allow improved pulmonary imaging.



As patient demographics are changing, metal implants become more and more frequent in MR imaging. MAGNETOM Free.Star offers inherent benefits for **implant imaging** as the new field strength also leads to reduced metal artefacts.

Effortless and intuitive operation

myExam Companion

MAGNETOM Free.Star, with myExam Companion, breaks down the barriers of complex MRI operations. Using the new possibilities of digitalization and AI, data is turned into integrated expertise and tailored assistance to benefit the user and address the clinical question.



myExam Autopilot Automate intelligently



myExam Assist Flexible and guided



Customize intuitively

myExam Autopilot

The innovative myExam Autopilot enables healthcare professionals of any skill level to perform routine MRI examinations³

myExam Autopilot provides a highly automated workflow and strongly simplified interface that enables brain, spine, knee, and shoulder exams with a simple click of button.

myExam 3D Camera

The world's first 3D camera fully integrated with your MRI scanner offers two unique benefits: AutoPositioning allows for automatic patient positioning for all available local coils. And AutoRegistration⁵ is designed to streamline and help safeguard accurate patient registration.



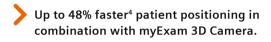


BioMatrix Technology

MAGNETOM Free.Star streamlines your tasks beyond scanning. You gain efficiency and reproducibility in your patient setup with BioMatrix workflow automation.

Select&GO

BioMatrix Select&GO, powered by AI, enables fully automated patient positioning with one touch on the display.



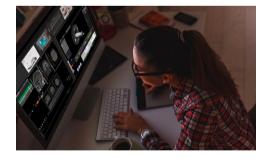


Automated positioning for eleven body regions with BioMatrix Select&GO

Remote Imaging

Remote Scanning

With syngo virtual Cockpit, you can benefit from an in-house expert at your side through our remote scanning service WeScan⁶, directly integrated into your MAGNETOM Free.Star.



Remote Reading

WeRead⁷ offers access to a network of renowned specialists providing teleradiology services, accommodating high case load and the need for a 2nd opinion.



Connected scanner

While you focus on caring for your patients, we stay connected to care for your MRI. Through innovative service from Siemens Healthineers, such as the preventive intelligence of our Guardian Program, we solve technical issues before downtimes occur.

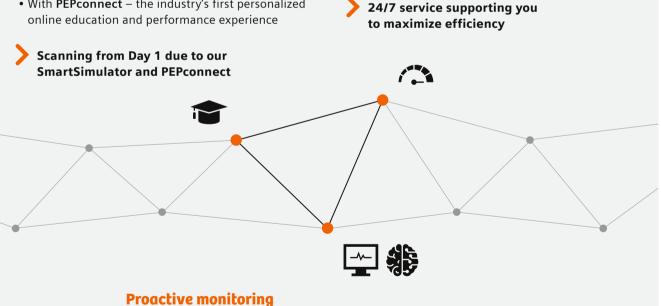
Get connected to stay one step ahead

Smart education

- Optimal mix of online and onsite trainings within tailored application support based on your needs
- With SmartSimulator the virtual connection to a hands-on scanner experience even before the system is installed
- With PEPconnect the industry's first personalized online education and performance experience

Automatic updates

• Our Advance Plans keep systems cybersecure and highly efficient through automatic updates and upgrades - the service plans for medical equipment in the digital era



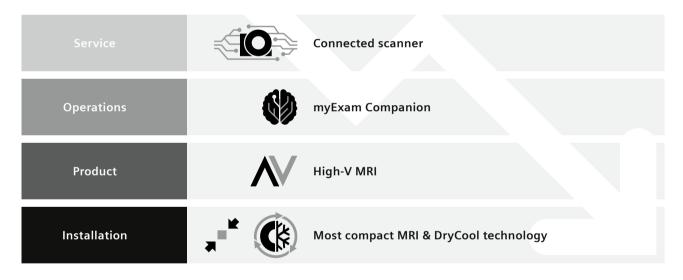
- Real-time system monitoring of all critical components with Guardian Program and CoilCare
- Detects and corrects errors before they even occur
- Applying artificial intelligence to ensure maximum system uptime

Redefining affordability

Healthcare economics are changing worldwide. As a result, radiology providers around the world need to rethink how they deliver services to drive a successful and profitable business, while maintaining high-quality care for the patient. MAGNETOM Free.Star breaks new ground by improving the overall economics of MR imaging and thereby offers great opportunities within the changing healthcare environment.

Life cycle cost

MAGNETOM Free.Star introduces comprehensive innovations that significantly reduce the life cycle costs of MRI.





"It's more convenient, it's less expensive, and it's faster. So from a siting perspective there are only benefits, not a single disadvantage. This is great.*"*⁸

Prof. Elmar M. Merkle, M.D. Chief Physician in Radiology and Nuclear Medicine University Hospital Basel, Switzerland On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this brochure are available through the Siemens Healthineers sales organization worldwide. Availability and packaging may vary by country and are subject to change without prior notice. Some/All of the features and products described herein may not be available in the United States. Some products are still under development and not commercially available yet. Their future availability cannot be ensured.

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For accessories, please visit: siemens.com/medical-accessories

¹ Time will extend if magnet refrigerator remains off for a longer period of time.

- ² This solution is still under development and not commercially available yet. It is not for sale in the U.S. Its future availability cannot be guaranteed. 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.
- ³ For head, spine, knee and shoulder examinations
 ⁴ Data on file
- ⁵ This product is under development and available in select countries.
- ⁶ The products/features and/or service offerings (here mentioned) are not commercially available in all countries and/or for all modalities. If the services are not marketed in countries due to regulatory or other reasons, the service offering cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.
- ⁷ The products/features and/or service offerings are not commercially available in all countries. If the services are not marketed in countries due to regulatory or other reasons, the service offering cannot be guaranteed. WeRead is currently under development and commercially only available in Germany as BEFUND24. Please contact your local Siemens Healthineers organization for further details.
- ⁸ The statements by customers of Siemens Healthineers 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 is from a person, who or whose institution is engaged in a collaboration with Siemens Healthineers.

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