Expand with MRI
And the new MAGNETOM ESSENZA

www.siemens.com/MAGNETOM-ESSENZA
Dear, valued customer,  
no matter which MAGNETOM solution you choose, you will be empowered to raise the level of satisfaction for your patients, referrers, employees and stakeholders altogether. Start transforming the value of your radiology department with us.

Empowering

Siemens MR, the trusted partner

More than 13,000 Siemens MR systems count for over 40% per cent of all MR Users worldwide. We as Siemens and our MAGNETOM family of MRI systems support you in every way possible to fight the most threatening diseases and raise quality and productivity in healthcare.
you to do more

MRI, the imaging procedure of choice

With 200 Mio.¹ MRI exams performed every year worldwide, MRI provides the answer to more and more clinical questions. MRI has become the preferred imaging modality in Neurology (Multiple Sclerosis, Brain Tumor, Stroke follow-ups), Orthopedics (spine degeneration, ligament ruptures, soft tissue injuries) and Oncology (for selected body regions like liver and small pelvis).

MAGNETOM, the unique technology advantage

Siemens MRI systems stand for speed, quality and usability in MRI. They feature leading imaging and workflow technologies throughout the whole portfolio. Combined with lowest energy consumption, zero helium boil-off technology, and the shortest magnets in the market, MAGNETOM offers you the unique opportunity to raise the quality of care in a challenging healthcare environment.
The new MAGNETOM ESSENZA

Established 1.5T performance. With Tim+Dot.

Whether you want to start your MRI business, increase your number of patients or enlarge your clinical scope, MAGNETOM ESSENZA with Tim+Dot is a must to easily, reliably, routinely and economically expand your system.

More productivity. With Tim+Dot.

- More productivity
- More applications
- More confidence

Total imaging matrix

Tim sets the standard in MRI.

Day optimizing throughput

Ease-of-use meets Flexibility

• Highly versatile, flexible coil combinations with up to 25 matrix coil elements in combination with 8 RF channels for excellent signal-to-noise ratio
• Whole spine or even whole CNS imaging without coil or patient repositioning
• Unique step-by-step user guidance, easy navigation through even complex exams
• Excellent image quality local and total, with high coil element density for any region of interest, and a scan range of up to 140 cm
• Intelligent, automated workflows defining the FoV automatically, allowing a standardized timing of contrast agent, enabling expert result consistency
• Easily adapt the exam strategy if the patient’s condition changes; for example reduce breathhold time from 18 s to 14 s with a single mouseclick, for the whole exam

Parallel imaging (iPAT) in all directions: for fast MR imaging in any body region, for shorter examination times, for increased throughput

Free scan setup and less user interaction during the measurement, due to automatic commands, significantly reducing the idle time of your system

Automated post-processing with predefined inline technologies avoids cumbersome and time consuming manual post-processing

Driven by innovation

More applications

Standardization follows Accuracy

- Enabling clinical excellence

More applications

- More productivity
- More confidence

Based on the unique MRI soft tissue contrast

- Show the same anatomy in multiple ways with contrast modes like T1, T2, PD, Dark Fluid, ...
- Evaluate anatomical structures, tissue characteristics or even body functions

MRI – the preferred imaging modality for...

- Multiple Sclerosis, Brain Tumor, Stroke follow-ups (Neurology)
- Spine degeneration, ligament ruptures, soft tissue injuries (Orthopedics)
- Selected body regions like liver and small pelvis (Oncology)

... without exposing your patients to ionizing radiation.

Siemens’ leading MRI applications help you to answer many more clinical questions with more confidence.

See more with MRI

Enlarge your clinical scope with MRI

Access the full potential of medical imaging

Comprehensive lesion evaluation

Enabling clinical excellence

- Improved from the unique MRI with its contrast
- More through parallel imaging in multiple axes with control modes, like T1, T2, PD, Dark Fluid...
- Excellent spatial, temporal and temporal-spatial characteristics on even long sequences

More productivity

- With Tim+Dot
- More applications
- More confidence

Speed enables Productivity

- Parallel imaging (iPAT) will accelerate, for fast MRI imaging in any body region
- Clinical examination before, no repositioning after
- Scan time reduced by up to 50% or more, with the same number of artifacts, improved image quality, significantly reducing the idle time of your system
- Automated post-processing with predefined inline technologies avoids cumbersome and time consuming manual post-processing

- More productivity
- More applications
- More confidence

See more with MRI

- Multiple Slices, Basic T2, T1 spin echo follow up (Oncology)
- Spike suppression, Black Imaging, soft tissue injuries (Orthopedics)
- Selective body regions for fast and small parts (Oncology)
- Radial imaging and patient position in MR imagining

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Whether you want to start your MRI business, increase your number of patients or enhance your clinical scope, MAGNETOM ESSENZA with Tim+Dot is a must-have, clinically versatile and economically attractive system.

Driven by innovation

Easy-of-use meets Flexibility

• More productivity
• More applications
• More confidence

Total imaging matrix

Tims sets the standard in MRI.

Day optimizing throughput

Dot. The next movement in MRI.

Ease-of-use meets Flexibility

• Highly flexible: Coil combinations with up to 25 matrix coil elements in combination with 8 RF channels for excellent signal-to-noise ratio
• Automated on-site coil imaging and coil-to-coil patient repositioning
• Unique step-by-step user guidance, easy navigation through even complex exams
• Excellent image quality local and total, with high coil element density for any region of interest, and a scan range of up to 140 cm
• Intelligent, automated workflows defining the Field of View automatically, allowing a standardized timing of contrast agent, enabling expert result consistency
• Easily adapt the exam strategy if the patient’s condition changes; for example reduce breathhold time from 18 s to 14 s with a single mouseclick, for the whole exam
• Parallel imaging (iPAT) in all directions: for fast MR imaging in any body region, for shorter examination times, for increased throughput
• Fast scan setup and less user interaction during the measurement, due to automatic commands, significantly reducing the idle time of your system
• Automated post-processing with predefined inline technologies avoids cumbersome and time consuming manual post-processing

More productivity. With Tim+Dot.

More applications

More confidence

Enabling clinical excellence

Enabling your clinical scope with MRI

• Multi-slice, Brain, Breast, 3D thicker slice allow for whole body coverage.
• Spine imaging: Spinal segments, soft tissue imaging, bony structures.
• Selective body region for fast and small parts (D PROMOTION) coil configurations to tailor patient to technology requirements.

Access the full potential of medical imaging

Siemens’ leading MRI applications help you to answer many more clinical questions with more confidence.

Standardization follows Accuracy

Speed enables Productivity

Comprehensive lesion evaluation

More confidence

More applications

More productivity

Established 1.5T performance. With Tim+Dot.

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Access the full potential of medical imaging

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Standardization follows Accuracy

Speed enables Productivity

Comprehensive lesion evaluation
MAGNETOM ESSENZA delivers outstanding image quality from head-to-toe. The Tim Application Suite comprises the Neuro, Ortho, Body, Angio, Cardiac, Breast, Oncology, and Pediatric suite to support you with a complete range of clinical applications in your daily MRI practice.

You and your patients will benefit from faster, better and more robust imaging capabilities in your daily MRI workflow. How? Here are a few examples:

**More applications. From head-to-toe.**

**Neuro**
Outstanding image quality for standard and advanced applications, focal and total. Up to 140 cm coverage, seamlessly integrated thanks to Tim.

**Ortho**
From ligament tears, to cartilage degeneration. Fast and easy scanning with Tim+Dot, in 2D or 3D with high-resolution for any orthopedic question from hand to toe.

**Breast**
Easily integrate breast exams in your clinical workflow, including breast implant assessment and therapy monitoring.

**Cardiac**
Easily answer clinical questions, from cardio-myopathies to ischemic heart disease, and valvular to congenital heart diseases.

**Angio**
Easily depict vessel diseases with contrast and non-contrast enhanced techniques.

**Body**
Perform high-resolution free-breathing abdominal studies like MRCP or fast single-breathhold 3D abdominal scanning with CAIPIRINHA.

**Quality**
High-end 3D imaging with sequences like syngo SPACE, Medic or VIBE, for high through-plane resolution, up to isotropic imaging. Enabling full flexibility to generate any arbitrary angulation after the scan.

**Robustness**
syngo BLADE, for robust, motion-insensitive imaging, that provides excellent results. Even for non-cooperative patients (e.g. stroke patients or very young patients). Applicable in head, shoulder, abdomen and many other body regions.

**Speed**
CAIPIRINHA, up to 50% faster imaging with the Siemens unique powerful next generation of parallel imaging. Enabling faster scanning and sharper images at the same time. Resulting in higher patient comfort and a more confident diagnosis. In abdominal exams: shorter breath holds, less motion and potentially higher resolution.

**Onco**
Provide state-of-the-art oncology services for tumor detection and staging of prostate and liver cancers.

**Pediatric**
Achieve excellent contrast and resolution with age-specific protocols and ultra-fast and motion correction techniques.

**Advanced applications made routine**

Your application standard. With MAGNETOM ESSENZA.
MAGNETOM ESSENZA stands for increased efficiency from day one. It enables you to keep costs low while increasing your number of patients. A sure combination for a faster break-even.

Optimized workflow

- Increase your standard workflow setup with Tim and GRAPPA: Comprehensive knee evaluation in less than 10 minutes.
- Increase your throughput significantly due to optimized workflow and consistent image quality: e.g. up to 20% more throughput with the Brain Dot Engine

With MAGNETOM ESSENZA value for money meets sustainability. Along the complete lifecycle you can benefit from the latest technology and system design. Be more efficient and productive than ever before, at a highly attractive total cost of ownership (TCO).

- Low installation requirements with short system design (only 147 cm cover to cover)
- Lowest operating costs in class with minimal power consumption
- State-of-the-art zero helium boil-off technology

More confidence.
Through sustainable value.

Fast Break-even

MAGNETOM ESSENZA stands for increased efficiency from day one. It enables you to keep costs low while increasing your number of patients. A sure combination for a faster break-even.

Outstanding TCO

With MAGNETOM ESSENZA value for money meets sustainability. Along the complete lifecycle you can benefit from the latest technology and system design. Be more efficient and productive than ever before, at a highly attractive total cost of ownership (TCO).

- Low installation requirements with short system design (only 147 cm cover to cover)
- Lowest operating costs in class with minimal power consumption
- State-of-the-art zero helium boil-off technology

Excellent performance

With MAGNETOM ESSENZA, you will get excellent system performance and reliability. More than 1,200 customers in over 80 countries already rely on MAGNETOM ESSENZA’s robust MRI performance. Every day, whenever they need to.

The MAGNETOM ESSENZA MR system allows us doing high quality examinations while keeping investment and operating costs under control.

I think that ESSENZA with advanced Tim technology and head-to-toe applications gives us a very good cost and benefit ratio due to its capacity to perform all kinds of exams with a very good workflow.

We as one of the first users of the new MAGNETOM ESSENZA are extremely delighted at its speed and performance. The reduced time taken for each study also increases productivity and helps us increase patient comfort especially when we can complete scans faster for pediatric patients.

Operating cost comparison with latest competitive systems over a 7-year lifetime period (€)
Closer to technology – and closer to you

Once your system is up and running, and your staff well trained to operate it, we make sure it stays that way, with our trainings, update programs and customized service solutions.

More Clinical Expertise
Enhanced expertise, greater efficiency, and high productivity thanks to education, consulting services, and personalized training. Our dedicated application specialists will help you to effectively use your systems to ensure a high level of satisfaction for your business and your patients.

Customized Service Agreements
Different needs call for individual service agreements. That is why we have structured our technical services in modules and additional options. By selecting the best combination of modules and options, we develop an individualized Performance Plan that ensures an optimal service solution for your situation.

Siemens Remote Service
With a Siemens Service contract, you will be connected to the Customer Care Center via Siemens Remote Service (SRS), the efficient and comprehensive infrastructure for the complete spectrum of remote support. Many services, updates and even immediate repairs that previously required on-site visits are now performed remotely. Up to 50% of all deviations can be detected and avoided via remote connection before interference with your workflow.

Siemens Healthcare is one of the first manufacturers of medical systems worldwide to implement an internationally valid information security management system (ISMS) for the remote service of medical devices and software systems. This has been certified by TÜV Süd in Germany according to the international standard ISO 27001.

Facts and figures
• We have more than 250,000 systems worldwide, 200,000 of them are able to connect to SRS
• Servicing 110,000 remote connected systems, 24x7 service support through “follow the sun” principal
• Up to 50% of all deviations can be detected and fixed via remote connection before interference with your workflow (Remote fix rate)
• With the help of our secure SRS infrastructure, we can offer technical and application support
• 99% uptime with the Siemens Guardian Program™

Learn more on
www.siemens.com/healthcare-customer-services

Worldwide Service Power
• In 128 countries
• With more than 7,700 expert personnel in technical services
• With more than 1,650 expert personnel in application services
• With more than 500 Headquarter experts
• With more than 1,000 Regional support engineers
• Delivering 97.7% of all spare parts within 24 hours
• Guaranteed 99% uptime with the Siemens Guardian Program™

Magnetom World
Our online platform with clinical information, case reports, protocols, application tips, and talks by international experts is growing every day. Stay informed at:
www.siemens.com/magnetom-world

Learn more on
www.siemens.com/healthcare-customer-services
Full service MRI

A dedicated team of Siemens MR Professionals will guide and support you throughout the complete process of starting your MRI business, according to your individual needs. From financing to installation, IT-infrastructure to configuration, tests to training and final integration in your daily clinical routine and processes. You can rely on four decades of experience in integrating an MRI system in any clinical setting.

A few essential questions and answers

**How long does it take to install MAGNETOM ESSENZA?**
Depending on the site conditions, the complete system installation can be done in less than two weeks.

**Is there any training for my staff?**
Yes – with our world wide presence we can provide trainings anywhere. Our engineers will train you on MRI safety and daily maintenance right after installation. Our application specialists will teach your staff to operate the system most efficiently.

**Can I see a MAGNETOM ESSENZA in operation?**
Yes, there are a number of options depending on your location. Please contact your local sales contact for more information.

Expand with MRI

- **MRI helps you to enlarge your clinical scope and improve patient care**
- **Investing in MRI is investing in a growing imaging modality, becoming the gold standard in more and more clinical fields**
- **With MRI you can reach out to more referrers and attract more patients**
- **Investing in a Siemens MRI system is investing in the technology of the market leader and innovation driver of MRI**
- **MAGNETOM ESSENZA offers you a unique price performance ratio to start your MRI business**
- **MAGNETOM ESSENZA is your easy to install, easy to learn, and easy to operate access to high-quality 1.5T imaging**

Leading. With MAGNETOM.
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 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.

All devices listed herein may not be licensed according to Canadian Medical Devices Regulations. 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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Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

Please find fitting accessories:
www.siemens.com/medical-accessories

Not for distribution in the USA.

1 Data on file; results may vary.
2 The statements by Siemens’ 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.
3 University Hospital Essen, Germany; Brain Dot Engine Workflow Study.
4 MR scanning has not been established as safe for imaging fetuses and infants under two years of age. The responsible physician has to decide about the benefit of the MRI examination in comparison to other imaging procedures.
5 Systems covered by a Siemens Service Contract Performance Plan TOP.
6 Numbers refer to all Siemens services in healthcare, including MR.
7 Availability depends on country.

Images courtesy of:
Battlefield Imaging, Ringgold, USA
Bupyeong Himchan Hospital, Incheon, Republic Korea
CDP, Rio De Janeiro, Brazil (IG Brochure)
CEDIB, Barretos, Brazil
Hôpital Privé de la Seine St. Denis, Le Blanc Mesnil, France
Hospital La Moraleja, Madrid, Spain
Hospital Santa Virginia, Sao Paulo, Brazil
People’s Hospital, Shenzhen, P.R. China
PRO-VITA, Sofia, Bulgaria
Sanatorio Allende, Cordoba, Argentina
Shanghai City Children’s Hospital, Shanghai, P.R. China
Tateyama Hospital, Tateyama, Japan

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