MAGNETOM ESSENZA
Established 1.5T performance. With Tim+Dot.
Leading in efficiency

You are aiming for more accurate diagnoses, to accommodate more patients in less time. Your investments need to pay off quickly and operating costs need to be kept down. To help overcome these challenges and raise quality and productivity in healthcare, you can benefit from the most efficient and user-friendly MRI solutions available, without making any compromise in delivering premium patient care.

You are an MRI leader.

Whether you are just beginning to work with MRI or are at the forefront of research. With Siemens MAGNETOM MRI systems, you can be sure to lead. In your clinical field, your research, your business environment – to achieve our joint mission of advancing human health.

Leading. With MAGNETOM.
Because there’s no need to reposition the coils, we can achieve 50-60 patients every day.1

Dr. Li Song Bai
Director of MRI department
1st Hospital of CMU
Shenyang, China

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 Built with the experience of more than 1,200 customers in the field, MAGNETOM ESSENZA, now with Tim+Dot, will enable you to be even more productive, more versatile, and more confident in your daily MRI practice.

How?

• By bringing Dot® (Day optimizing throughput) together with Tim® (Total Imaging Matrix), boosting image quality and consistency while helping take the complexity out of MRI.

• By being equipped with the latest application platform, providing more standard and advanced applications than ever before.

• Through reassuring investment and operating costs, defining a faster return on investment and sustainable value.

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MAGNETOM ESSENZA. Established 1.5T performance. With Tim+Dot.

Designed for steady performance, MAGNETOM ESSENZA fully answers your needs in daily MRI practice – with Dot engines to increase your productivity and latest applications to broaden your clinical scope.
More productivity. With Tim+Dot.

- Excellent workflow with Tim [25x8] and the unique integrated IsoCenter Matrix
- Consistently high quality exams – personalized, guided, automated – with Dot
- Powerful imaging performance with an outstanding coil portfolio

More applications. From head to toe.

- Comprehensive Tim Application Suite for routine and advanced 2D/3D imaging
- Advanced applications like CAIPRINHA, syngo BLADE, Inline Diffusion – now standard
- Beyond standard – one step ahead for more advanced applications like syngo RESOLVE

More confidence. Through sustainable value.

- Access to new innovations with our latest syngo software platform
- Improved ease of use and workflow with Tim+Dot – enabling higher patient throughput
- Lowest operation cost in class¹ with state-of-the-art zero helium boil-off technology
- Excellent performance and reliability – confirmed by more than 1,200 installed systems
- Reassuringly low TCO (Total Cost of Ownership) and a faster break-even
More productivity. With Tim+Dot.

Tim+Dot are the direct response to today’s demanding world of healthcare economics. Tim is Siemens’ integrated coil technology unlocks imaging power like never before. Dot engines help take the complexity out of MRI, at the same time enable consistency and reproducibility. Together, they redefine productivity – with an increase of up to 50%.
Tim sets the standard in MRI.

Tim integrated coil technology changed MRI forever. With excellent image quality and fast acquisition speed, the proven technology is now in nearly 8,000 installations. Whole-body coverage means no repositioning for multiple exams and more exams per day.

Your benefits:
- Exceptional image quality
- Faster acquisition, in shorter exam time
- Higher SNR

Flexibility
- Select exams, not coils
- 8 RF channels for up to 25 matrix coil elements
- Head-to-toe imaging without patient repositioning

Accuracy
- Local and whole-body imaging, while maintaining a high SNR
- Excellent image quality with high coil density
- Seamlessly scan up to 140 cm with excellent image quality

Speed
- Utilize parallel imaging (iPAT) in all directions
- High acquisition speed, high resolution
- Shorter examination times allow increased throughput

Dot. The next movement in MRI.

Dot is a new way of scanning in MRI – a better way. Dot scanning uses a suite of customizable engines – allowing the user to personalize exams according to patient needs, build in step-by-step user guidance, and automate MRI exams – either “out of the box” or based on the institution’s standards.

Your benefits:
- Increased consistency and reproducibility
- Greater ease of use
- Higher productivity

Personalized
- Uniquely tailored, optimized exam strategies
- Adapt scanning to the patient condition or clinical question
- Customize Dot strategies to your standards of care

Guided
- Real-time on-board guidance with images and text through even complicated exams
- Adapt scanning to your protocols for increased standardization with integrated decision points
- Add your own instructions including image examples for consistent positioning and scanning

Automated
- Consistent and reproducible scanning with features like AutoAlign, AutoBolus Detection
- Intelligent workflows customizable to your standards enable effortless set-up
- Optimized timing of scanning and breathing
More productivity. With Tim+Dot.

Tim technology has made fast, flexible, and accurate scans the standard in MRI. MAGNETOM ESSENZA provides access to this market-leading technology, bringing excellent productivity to your daily clinical work.

Excellent image quality and workflow with Tim [25x8]
- Flexible combination of up to 4 Matrix coils
- Up to 25 matrix coil elements seamlessly combined
- Excellent coverage allows exams like whole CNS, whole Abdomen or peripheral MRA without repositioning

Great patient comfort on a total scan range of up to 140 cm
- Unique integrated IsoCenter Matrix Coil always ready to scan
- Short system design with 147 cm length, from cover to cover
- Comfortable patient table for patient weight of up to 200 kg/440 lbs and with lowest height of 55 cm
Excellent flexibility and highly versatile use with the Flex coil

- Two different sizes that fit different body regions like wrist, elbow, shoulder, hip, knee and ankle
- Wrap-around, flexible coil design
- 4-channel design for high SNR and great iPAT imaging performance
Outstanding image quality and speed with the 10-element Head/Neck coil

- 10-element design for excellent SNR and iPAT in any direction
- Large aperture opening and detachable double mirror
- Flexible usability, e.g. with lower part only for claustrophobic patients
- Highly combinable with additional coils like the Body Matrix or IsoCenter Matrix Coil
More productivity.
With Tim+Dot.

Whether you work with the system pre-sets, or configure Dot to your institution’s standards, the Dot engines multiply the power of Tim. The results: greater image consistency and diagnostic confidence, greater ease of use, and a day that’s more productive than ever before.

Brain Dot Engine
The Brain Dot Engine makes brain exams easier, more reproducible, and more efficient. Personalized exam strategies help to adapt the examination to patient condition or clinical questions. Also when conditions change during the examination.
Abdomen Dot Engine
Up to 28% better timing accuracy
• Improved timing accuracy for more reproducible results
• Consistent image quality for even complex abdomen examinations
www.siemens.com/Abdomen-Dot-Engine

Knee Dot Engine
Knee examination tailored to the patient
• More consistent image quality
• Speed and ease-of-use for 3D workflows
• Improved evaluation of soft tissue in proximity of orthopedic MR-conditional metal implants, due to less susceptibility artifacts with syngo.WARP®
www.siemens.com/Knee-Dot-Engine

Cardiac Dot Engine
Up to 50% increase in patient throughput
• Consistency in slice positioning for reliable image quality over multiple exams
• Ease-of-use, helping bring cardiac MRI into your clinical routine
www.siemens.com/Cardiac-Dot-Engine

Angio Dot Engine
Automated calculation of contrast agent application
• Interactive contrast timing approach eliminates need for cumbersome calculations
• Increased timing accuracy and image consistency
www.siemens.com/Angio-Dot-Engine
More applications. From head to toe.

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 the complete range of clinical applications.

“The acquisition of MAGNETOM ESSENZA was a great choice, because it surpassed all our expectations, attending the hospital diversified needs.”

Dr. Cristiano Rezio MD
Radiologist,
Administrative Director
Clínica De Diagnóstico
Por Imagem Avançado
Goiânia – GO, Brazil
The Tim application suite provides you with advanced, cutting-edge applications like *syngo BLADE*, CAIPIRINHA, Inline Diffusion and advanced 3D imaging sequences like *syngo SPACE* and 3D CISS & DESS.

**syngo BLADE**

Robust, motion-insensitive imaging for excellent imaging results even for non-cooperative patients, can be used in head, shoulder, abdomen, and other body regions.

**CAIPIRINHA**

The powerful next generation iPAT application for up to 50% faster 3D imaging.¹

**Inline Diffusion**

Automatic real-time calculation of trace-weighted images and ADC maps with Inline Technology.
**syngo SPACE, Medic, VIBE**

High-end 3D imaging sequences for various contrasts with high through-plane resolution, up to isotropic imaging, provide you the full flexibility to generate any arbitrary angulation after the scan – conveniently for you and your patient.

![3D T1 SPACE, sagittal acquisition with 1.0 mm isotropic resolution, shown with reformatting examples in axial, and coronal orientation](image1)

**3D DESS**

T2/T1-weighted, high resolution cartilage imaging.

![3D DESS, knee](image2)

**3D CISS**

Excellent visualization of fine structures such as cranial nerve, high resolution imaging of inner ear and spine.

![3D CISS, Inner ear, cutout](image3)
Neuro
Excellent performance and pristine image quality for standard and advanced applications, in 2D or 3D, e.g. sub-mm isotropic resolution with syngo SPACE.

Ortho
Examine ligament tears to cartilage degeneration with high-resolution imaging and a wide range of dedicated coils.

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

Cardiac
Easily answer clinical questions, from cardiomyopathies 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.

Breast
Streamline your workflow in clinical breast cases, including breast implant assessment and therapy monitoring.

Pediatric
Achieve excellent contrast and resolution with age-dependent protocols, using ultra-fast and motion correction techniques.
More confidence. Through sustainable value.

With MAGNETOM ESSENZA value for money meets sustainability. Along the complete lifecycle you 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).

**Outstanding TCO**
- Low installation requirements with short system design
- Lowest operating costs in class with minimal power consumption
- State-of-the-art zero helium boil-off technology

### Operating cost comparison with latest competitive systems over a 7-year lifetime period (€)

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<th>Competitor 1</th>
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1 Indicates cost comparison.
The new MAGNETOM ESSENZA MR system allows us doing high quality examinations while keeping investment and operating costs under control. ... Today, we have a very good productivity.

Mr. Geoffrey Gatebled
Chief technician
Centre d’Imagerie Médicale
de Franconville
Franconville, France

The MAGNETOM ESSENZA MR system 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.

Break-even comparison

Optimized workflow

- Increase your standard workflow setup with Tim and GRAPPA: Comprehensive knee evaluation in less than 10 minutes
- Optimized workflow and great consistency brings dramatic throughput: e.g., up to 20% throughput increased with Brain Dot Engine
With MAGNETOM ESSENZA, you will get excellent system performance – and an uninterrupted uptime\(^1\). More than 1,200 customers in over 80 countries already rely on MAGNETOM ESSENZA’s robust MRI performance. Every day, whenever they need to.

System reliability\(^1\)

<table>
<thead>
<tr>
<th>Year</th>
<th>MAGNETOM ESSENZA</th>
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Benefit from the joint software platform
MAGNETOM ESSENZA is ready for the future. Based on our latest software platform, it helps you keep the pace with latest MRI trends and developments.

Innovative imaging techniques like CAIPRINHA are already available today – while MAGNETOM ESSENZA’s latest software platform grants access to even more advanced applications of tomorrow.

With MAGNETOM ESSENZA, you get a highly innovative system that will continue its innovation path. And with syngo Evolve, you are automatically part of it.

“ESSENZA is a true “value for money” system combining both strengths of excellence in imaging and viability for investors.”

Dr. B. Kannan
Director
Aravind Krishna Hospital
Sattur, Virudhunagar District
Tamilnadu, India

with our latest products.
Customer Care

Customer Services

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.

syngo Evolve MR
Up-to-date, powerful hardware and software are key factors for enhancing the performance and diagnostic quality of your systems. syngo Evolve helps you to keep pace with rapidly developing technological advances throughout the complete life cycle of your system.

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 via remote connection before interference with your workflow.

Learn more on www.siemens.com/uptime

Redefine your MRI system
Redefine your MRI system with options and upgrades. Keep pace with innovations and keep your system state of the art during its entire product lifecycle. Get your personalized recommendation and discover new coils and clinical software applications. Try them out with a software trial license and experience how you can redefine your system to meet your needs.

www.siemens.com/redefine

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/uptime
MAGNETOM ESSENZA. Established 1.5T performance. With Tim+Dot.

- **Higher patient comfort**
  due to light-weight coils, ultra-short magnet design, and fast exams

- **Optimized workflow**
  and increased consistency – with Dot

- **Greater clinical scope**
  with head-to-to applications

- **Diagnostic confidence**
  through remarkable, consistent image quality

- **Excellent life-cycle value from day one**
  through low installation and operating costs

Leading. With MAGNETOM.
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